

**2022 PERIODIC REVIEW REPORT  
MOHONK ROAD INDUSTRIAL PLANT SITE  
NYSDEC SITE NO. 356023**

**WORK ASSIGNMENT NO. D009809-25**

**Prepared for:**

**New York State Department of Environmental Conservation  
Albany, New York**

**Prepared by:**

**MACTEC Engineering and Geology, P.C.  
Portland, Maine**

**MACTEC: 7772210116**

**MAY 2023**

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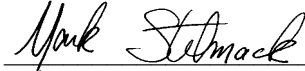
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## TABLE OF CONTENTS

LIST OF FIGURES .....	II
LIST OF TABLES.....	III
GLOSSARY OF ACRONYMS AND ABBREVIATIONS.....	IV
EXECUTIVE SUMMARY .....	ES-1
1.0 SITE OVERVIEW.....	1-1
1.1 SITE HISTORY AND DESCRIPTION.....	1-1
1.2 PHYSICAL SETTING.....	1-5
1.3 CLEANUP GOALS AND REMEDIAL PROGRESS .....	1-7
2.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS .....	2-1
2.1 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS.....	2-1
2.1.1 Site Controls and Evaluation .....	2-1
2.1.2 Groundwater Extraction and Treatment System.....	2-2
2.2 OPERATION AND MAINTENANCE PLAN .....	2-2
2.2.1 Groundwater Extraction and Treatment System.....	2-2
2.3 LONG-TERM MONITORING.....	2-3
2.4 SEMIANNUAL HYDRAULIC MONITORING.....	2-5
2.5 PROJECT REVIEW MEETING.....	2-6
2.6 GEOTHERMAL EVALUATION.....	2-6
3.0 COST CONTROL SUMMARY.....	3-1
4.0 CONCLUSIONS AND RECOMMENDATIONS .....	4-1
4.1 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS.....	4-1
4.2 OPERATION AND MAINTENANCE PLAN .....	4-1
4.3 RSO PILOT TEST GROUNDWATER MONITORING PROGRAM .....	4-2
4.4 RECOMMENDATIONS.....	4-2
5.0 REFERENCES .....	5-1

### FIGURES

### TABLES

### ATTACHMENTS

Attachment A1: NYSDEC Engineering Controls – Standby Consultant/Contractor Certification Form

Attachment A2: Historical Groundwater Results – Site VOCs

Attachment A3: Laboratory Groundwater Results – LTM 2022

Attachment A4: Chemist Data Review - LTM 2022

Attachment A5: Groundwater Discharge Permit Equivalent – February 2021

## LIST OF FIGURES

### Figure

- 1.1 Site Location Map
- 1.2 Well Location Map
- 1.3 Site Layout
- 2.1 Water Elevation Contours
- 2.2 Total VOCs Isoconcentrations in Groundwater 2022
- 2.3 1,4-Dioxane Isoconcentrations in Groundwater 2022

## LIST OF TABLES

### Table

- 2.1 Site Management Requirements
- 2.2 Long-Term Monitoring and System Performance Sampling Matrix
- 2.3 Treatment Plant Monthly Throughput
- 2.4 Estimated Groundwater Extraction and Treatment System Downtime
- 2.5 Total VOCs in Extracted Groundwater (lbs)
- 2.6 System Performance Sampling Results
- 2.7 Long-Term Monitoring Groundwater Elevations
- 2.8 Groundwater Monitoring Results Above New York State Standards – January 2022

## GLOSSARY OF ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
EC	engineering control(s)
GAC	granular activated carbon
gpm	gallon(s) per minute
GSHP	ground source heat pump
GWETS	groundwater extraction and treatment system
IC	institutional control(s)
lbs	pounds
LTM	long-term monitoring
MACTEC	MACTEC Engineering and Consulting/Geology, P.C.
µg/l	microgram(s) per liter
MRIP	Mohonk Road Industrial Plant
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
O&M	operation and maintenance

## GLOSSARY OF ACRONYMS AND ABBREVIATIONS (CONTINUED)

PCE	tetrachloroethene
PRR	periodic review report
POET	point-of-entry treatment
RAO	Remedial Action Objective
ROD	Record of Decision
RSO	remedial systems optimization
Site	Mohonk Road Industrial Plant site
SM	Site Management
SMP	Site Management Plan
SSDS	sub-surface depressurization system
SVE	soil vapor extraction
TCE	trichloroethene
USEPA	United States Environmental Protection Agency
VI	vapor intrusion
VOC	volatile organic compound

## EXECUTIVE SUMMARY

The Mohonk Road Industrial Plant (MRIP) site (NYSDEC Site No. 356203; herein referred to as the Site) consists of approximately 14.5 acres and is located in the Hamlet of High Falls within the Towns of Marletown and Rosendale, Ulster County, New York. The Site has been remediated in accordance with the Record of Decision (ROD). The ROD divided the plume into two categories based on volatile organic compound (VOC) concentrations: the “near field” plume and the “far field” plume. The “near field” plume is defined as the area where total groundwater VOC concentrations are greater than 1,000 parts per billion (micrograms per liter [ $\mu\text{g/L}$ ]); the “far field” plume is defined as the area where total groundwater VOC concentrations are between 10  $\mu\text{g/L}$  and 1,000  $\mu\text{g/L}$ . Annual monitoring includes sampling of the background, on-site, mid-plume, and perimeter wells in accordance with the 2019 Field Activities Plan (MACTEC, 2019) which is based on the 2013 LTM monitoring plan (AECOM, 2013). The Site includes an active groundwater extraction and treatment system (GWETS) and a sub-surface depressurization system (SSDS) within the site building.

Site contaminants of concern are volatile organic compounds including tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (1,1,1-TCA), 1,2-dichloroethene (1,2-DCE), and vinyl chloride. Remedial goals outlined in the ROD are instituted to eliminate inhalation and ingestion of, and dermal contact with, contaminated groundwater associated with the Site that does not meet federal or state drinking water standards.

Current Site Management (SM) requirements for monitoring the performance and effectiveness of the remedial measures completed at the Site consist of operating the groundwater extraction and treatment system to maintain hydraulic control in the source area, routine inspection, sampling, and reporting. The SM requirements are presented in Table 2.1.

The High Falls Water District (HFWD) acquired a seven-acre unimproved portion of the original MRIP property. The HFWD’s new public water supply (PWS) treatment plant and water tower were constructed on this parcel. Many of the private properties in the vicinity of the MRIP property are residential in nature.



Three distinct water bearing zones have been identified at the Site, including an overburden (till) flow zone, a bedrock interface flow zone (at the shallow soil/bedrock interface) and a bedrock flow zone (the bedrock aquifer).

By focusing on hydraulic containment of the source area, and by eliminating extraction of water from bedrock extraction wells, it was anticipated that the effectiveness of the GWETS would increase, operating costs would decrease, groundwater would continue to be treated, and its quality would gradually improve with time; data obtained from ongoing monitoring activities would be used to evaluate migration pathways and potential receptors.

This Periodic Review Report summarizes SM activities completed at the Site from May 2019 through May 2022. Based on activities completed from 2019 to 2022, the site use and activities are in compliance with the institutional controls/engineering controls (IC/ECs) remaining in-place. The NYSDEC Engineering Controls – Standby Consultant/Contractor Certification Form is included in Attachment A1.

At the request of the NYSDEC, a project review meeting was held in 2021 to discuss current site remedial objectives and status, and to present treatment system alternatives for the continued optimization and monitoring of system efficiency and hydraulic control of the source in the vicinity of the Site.

## 1.0 SITE OVERVIEW

### 1.1 SITE HISTORY AND DESCRIPTION

The original Mohonk Road Industrial Plant (MRIP) property, consisting of approximately 14.5 acres, had previously been used for industrial and commercial activities since the early 1960s. Previous hazardous waste disposal practices, especially those involving solvents, from one or more of the previous industrial operators in the MRIP building resulted in the area groundwater being contaminated with various volatile organic compounds (VOCs). Many of these wastes were disposed in the on-site septic system. The various operators included manufacturers of plastic and metal store display fixtures, metal finishing, wet spray painting, card punch machines, and computer frames operations. Drums, paint sludge and other wastes were also buried in several locations on the MRIP Property.

The MRIP Property is currently zoned for commercial/light industrial use. The Town of Marbletown has indicated no zoning changes are planned for the MRIP property. The most reasonably anticipated future use for the MRIP Property remains commercial and light industrial. The Site was added to the National Priorities List (NPL) on January 19, 1999.

In 1994, the New York State Department of Environmental Conservation (NYSDEC) began investigating the Site. Subsequently, NYSDEC installed individual granular activated carbon filtration systems, i.e., point-of-entry treatment (POET) systems, at homes or businesses whose potable water supply exceeded the New York State (NYS) maximum contaminants levels (MCLs) of 5 micrograms per liter ( $\mu\text{g/L}$ ) for individual VOCs.

In 1996, NYSDEC performed a remedial investigation (RI) at the Site which included collection of soil gas and subsurface soil samples, installation of monitoring wells, and collection of groundwater samples and water and sludge samples from the on-site septic tank located north of the MRIP building.

Based on the findings of the RI, cis-1,2-dichloroethene (cis-1,2-DCE), 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE) 1,1-dichloroethane (1,1-DCA), trichloroethene (TCE),

tetrachloroethane (PCE), ethylbenzene, and xylenes were identified as contaminants of concern (COCs) in site soils. The septic tank sludge contained elevated concentrations of 1,1,1-TCA and 1,1-DCE.

Analytical data for groundwater indicated that the dissolved-phase VOC-plume extends approximately one mile north-northeast from the MRIP property. 1,1,1-TCA was reported at a concentration of 82,000 µg/L in one monitoring well, MW-4. Further groundwater sampling in downgradient private wells contained 1,1,1-TCA concentrations ranging from non-detect to 880 µg/L and total VOC concentrations ranging from 1.6 to 1,077 µg/L. In addition, the groundwater in the bedrock aquifer beneath the MRIP property exhibited VOC-concentrations above the EPA removal action levels, federal and NYS MCLs, and New York State Department of Health (NYSDOH) Class GA Drinking Water Standards.

The results of the baseline risk assessment indicated that the groundwater at the Site poses an unacceptable risk to human health. This assessment assumed that the POET systems, which were in operation at the time, would no longer be used. The assessment concluded that actual or threatened releases of hazardous substances from the Site, if not addressed by remedial actions or other active measures, present a current or potential threat to human health and the environment.

In response to a 1998 NYSDEC request, the EPA conducted a non-time-critical removal action (NTCRA) involving the construction of a groundwater extraction and treatment (GWET) system designed to minimize the further migration of the most highly contaminated portion of the groundwater plume. In May 2000, the NTCRA GWET plant became operational.

In December 1999, as part of the ongoing NTCRA to construct a GWET facility, EPA excavated and disposed of contaminated soil, paint waste, and debris from an area identified as Paint Waste Pit #1. All visible waste was removed from the pit; the soil on the sidewalls and floor were screened with field instrumentation and sampled for laboratory analysis. Sampling results showed that the EPA soil action levels for the Site, identified in the 2000 Record of Decision (ROD), were not exceeded in any of the post-excavation samples. A total of 532 tons of soil and debris were excavated and disposed of off-site as nonhazardous waste. During October to December 2000, an additional approximately 2,036 tons of contaminated soil, paint waste and debris were excavated

on the MRIP property. This soil, as well as the previously stockpiled soil on the MRIP property, were disposed of off-site at permitted facilities. All excavated areas were backfilled with clean soil.

From Spring 2000 until June 2005, EPA installed an additional five and the NYSDEC installed approximately seventy POET systems. In total, 75 residential and commercial wells down-gradient of the MRIP property were found to have VOC concentrations above NYS MCLs (5 µg/L for individual VOCs).

#### Record of Decision – March 2000

The remedial action objectives (RAOs) in the ROD included:

- Eliminate inhalation and ingestion of, and dermal contact with, contaminated groundwater associated with the Site that does not meet federal or state drinking water standards
- Restore the bedrock aquifer to its most beneficial use, i.e., as a source of potable water, and restore it as a natural resource
- Prevent or minimize cross-media impacts from COCs in contaminated soil to the underlying groundwater, which will also eliminate potential future soil exposure (site soil cleanup objectives for COCs would be based on NYSDEC's TAGM 4046 for groundwater protection)
- Eliminate further off-MRIP property contaminated bedrock groundwater migration.

The selected remedy of the 2000 ROD included the following components:

- Extraction of contaminated groundwater in both the near-field plume and the far-field plume to restore the aquifer to its most beneficial use (as a potable water supply), treatment with an air stripper, and discharge of the treated water to the Rondout Creek and Coxing Kill. The near-field plume refers to that portion of the groundwater plume with total VOC concentrations greater than 1,000 µg/L while the far-field plume refers to the component of the groundwater plume containing concentrations of 10 to 1,000 µg/L total VOCs. The near-field plume would be addressed through long-term operation of the groundwater P&T system. (The continued operation of the NTCRA GWET became a component of the

ROD.) The far-field groundwater plume would be addressed through the construction and the long-term operation of an additional GWET system;

- Construction of a PWS system to provide potable water to the residences and businesses in the Towns of Marbletown and Rosendale that have impacted or threatened private supply wells. The primary water supply for the system will be the New York City Catskill Aqueduct (NYCCA), as managed by the New York City Department of Environmental Protection (NYCDEP). The POET systems that were in use at the time would operate only until the new PWS supply system had become operational;
- Implementation of a groundwater monitoring program to evaluate the effectiveness of the selected remedy;
- Institutional controls may be employed to prevent future use of the bedrock aquifer in the impacted or threatened area;
- Excavation of VOC-contaminated soils from various areas of concern (AOCs) having concentrations above the cleanup criteria to prevent or minimize cross-media impacts from COCs in soil to the underlying groundwater; and
- Off-site disposal of the contaminated soil at appropriately permitted facilities.

#### ROD Amendment – September 2008

One component of the selected remedy in the original 2000 ROD included installation of a far-field plume GWET system. In September 2008, the EPA issued a ROD Amendment in which the far field treatment system component of the groundwater remedy was replaced with a monitored natural attenuation (MNA) remedy.

The RAOs were updated to reflect activities completed to date and include:

- Restore the aquifer to its most beneficial use, i.e., as a source of potable water, and restore it as a natural resource
- Eliminate further off-MRIP property contaminated groundwater migration
- Eliminate inhalation and ingestion of, and dermal contact with, contaminated groundwater associated with the Site that does not meet state or federal drinking water standards.

The amended groundwater remedy includes:

- MNA within the far-field plume to restore the aquifer to its most beneficial use (as a potable water supply) and continued GWET (air stripper and GAC adsorption) of contaminated groundwater in the near-field plume on the MRIP property. The treated water discharges to the Coxing Kill. As stated above, the near-field plume refers to that portion of the groundwater plume containing total VOC concentrations greater than 1,000 µg/L. The far-field plume was updated to refer to that portion of the groundwater plume containing concentrations of five to 1,000 µg/L total VOCs;
- Implementation of a groundwater monitoring program to evaluate groundwater conditions and the effectiveness of the components of the remedy;
- Institutional controls in the form of existing governmental controls to prevent future use of the aquifer as a drinking water source in the impacted or threatened area. These institutional controls would no longer be necessary following the restoration of the groundwater to beneficial use.

## 1.2 PHYSICAL SETTING

The Site is located in the Hamlet of High Falls within the Towns of Marbletown and Rosendale, Ulster County, New York, approximately seven miles north-northwest of the Village of New Paltz and ten miles south-southwest of the City of Kingston (see Figure 1.1). The Site, located at 186 Mohonk Road, includes a 43,000 square foot on-site commercial building, the surrounding MRIP property, and all surrounding properties impacted by the contaminated groundwater plume emanating from the MRIP property (see Figures 1.2 and 1.3).

The original MRIP property consisted of approximately 14.5 acres and had previously been used for industrial and commercial activities since the early 1960s. These activities included metal finishing, wet spray painting, and the manufacturing of store display fixtures, card punch machines, and computer frames. Wastes from these operations were typically discharged into the on-property septic system. The property is currently occupied by several commercial or light industrial businesses.

The MRIP and surrounding areas are located in the Shawangunk Mountains and are underlain by the Silurian Shawangunk Formation. Previous investigations at the Site have identified several hydrostratigraphic zones. These zones consist of an overburden flow zone, a bedrock interface zone, and a bedrock flow zone, as detailed below.

### **Overburden Flow Zone**

The overburden flow zone is characterized by groundwater flow in thin deposits of unconsolidated glacial lodgment, ablation, and weathered till, sand lenses, and fill. Some thicker (up to 50 feet) deposits of unconsolidated materials exist in an area just north of the Site. The till is approximately 9 to nearly 30 feet thick on the MRIP. The flux of groundwater through this flow zone is dependent upon precipitation events and seasonal fluctuations in groundwater recharge. At certain times of the year, this overburden unit may be seasonally perched, or fully saturated. The water table is typically found in this zone and responds quickly to precipitation events. Groundwater levels historically fluctuate greatly (i.e. approximately 6 foot [ft] variations between sampling events in MW-4).

The principal direction of horizontal overburden groundwater flow is predominantly to the north. Based on visual inspection of soils, estimates of hydraulic conductivity developed during the RI/FS indicated permeability of the overburden flow unit in the range of  $1 \times 10^{-6}$  to 0.1 ft/day. Average linear groundwater velocity was calculated to be approximately  $1 \times 10^{-4}$  ft/day (LMS, 1998a). Groundwater in this overburden flow zone also exhibits a downward component of flow into the bedrock interface and bedrock flow zones. Thus, waste disposed in this zone is anticipated to migrate downward through more conductive sand lenses or fractures within the glacial till unit.

### **Bedrock Interface Flow Zone**

The transition from unconsolidated material to the underlying bedrock includes a bedrock interface zone consisting of sand, gravel, and weathered rock fragments. This zone appears to be in direct hydraulic connection with the underlying bedrock flow zone in certain areas of the Site, and it appears to be confined, or partially confined, by the overlying glacial till unit. This zone is anticipated to be more conductive than the overlying overburden. The vertical groundwater flow gradients for this zone are strongly downward, ranging from 0.14 to 0.46 ft/ft (RI/FS) indicating that the Site is located in a recharge zone of the deeper bedrock flow zone. Average linear groundwater velocity within this zone was estimated to be approximately  $1.33 \times 10^{-3}$  ft/day (LMS, 1998a).

### **Bedrock Flow Zone**

The bedrock flow zone represents the principal source of drinking water for the High Falls area. The flow zone is encountered in highly competent orthoquartzites of the Upper Member of the Shawangunk Formation, and also in gray shale deposits (specifically north of the Site in the former

septic system area). This unit has little to no remaining primary porosity but is cut by various fractures. Fracture orientation varies from near vertical to near horizontal. These fractures are the primary storage for groundwater and the anticipated pathways for contaminant transport.

The Site is located near a topographic high and serves as a recharge area for the fractured bedrock aquifer. Vertical gradients are primarily downward within the bedrock flow zone, and recharge to the bedrock aquifer predominantly occurs from the bedrock interface flow zone where permeable glacial overburden overlies the fractured bedrock interface zone. Estimates of hydraulic conductivity developed during the RI/FS indicated permeability of the bedrock flow zone in the range of 0.24 to 0.46 ft/day. Based on the regional groundwater gradient and estimated porosity, the average linear groundwater velocity in bedrock was calculated to be approximately 0.26 ft/day (LMS, 1998a). The primary horizontal direction of bedrock groundwater flow emanating from the Site is to the north toward Rondout Creek, with minor components of lateral flow to the northeast and northwest.

### 1.3 CLEANUP GOALS AND REMEDIAL PROGRESS

The Record of Decision (ROD) was signed in 2000 (USEPA, 2000). The description of the selected remedy in the ROD as it pertains to contaminant reduction includes:

- Extraction of contaminated groundwater in the near field and far field plume to restore the aquifer to its most beneficial use (as a potable water supply), treatment with an air stripper, and discharge of the treated water to the nearby Rondout Creek and Coxing Kill Creek. The "near field plume" refers to that portion of the groundwater plume with total VOC concentrations greater than 1,000 µg/L, while the "far field plume" refers to the component of the groundwater plume with 10 µg/L to 1,000 µg/L total VOCs.
- The construction of a public water supply system to provide potable water to the residences and businesses in the Towns of Marletown and Rosendale with impacted or threatened private supply wells. The primary water supply for the system will be the Catskill Aqueduct. In addition, the individual granular activated carbon filtration systems currently in use will be operated until the new public water supply system is operational.
- Implementation of a groundwater monitoring program to evaluate the effectiveness of the remedy. Figure 1.2 presents locations of site monitoring wells, which are used to collect groundwater samples.
- Institutional controls (IC) may be employed to prevent future use of the bedrock aquifer in the impacted or threatened area.
- Excavation of VOC-contaminated soils with concentrations above the cleanup criteria to prevent or minimize cross-media impacts from COCs in soil to groundwater.
- Off-site disposal of the contaminated soil at appropriately permitted facilities.



In September 2008, USEPA issued a ROD Amendment in which the far field treatment system component of the groundwater remedy was replaced by monitored natural attenuation (USEPA, 2008). The Remedial Action Objectives were updated to reflect activities completed including:

- Restoring the aquifer to its most beneficial use, i.e., as a source of potable water, and restore it as a natural resource
- Eliminating further off-MRIP property contaminated groundwater migration
- Eliminating inhalation and ingestion of, and dermal contact with, contaminated groundwater associated with the Site that does not meet state or exceed federal drinking water standards.

The following remedies were implemented to address contamination originating from the Site.

- Installation of a near field groundwater extraction and treatment system (GWETS)
- Excavation of contaminated soils
- Installation of a soil vapor extraction (SVE) system
- Installation of a vapor intrusion mitigation system
- Implementation of ICs
- Operation, maintenance, and monitoring of GWETS and SVE system.

The near-surface contaminated soil within the source area was remediated, effectively eliminating the surface runoff pathway. The overburden glacial till consists predominantly of sandy silt, and contaminant migration within the till is likely controlled by the factors that govern porous media flow. As such, the movement of COCs in the till is likely to be slow. The bedrock interface zone, which is likely weathered, may also act as a porous media. However, it is more likely that the contaminant migration in the bedrock interface zone will behave as a dual porosity model (i.e., fractured and porous media flow). Migration in the underlying fractured bedrock will be controlled by fracture aperture, hydraulic gradients, and total organic carbon content.

The downward vertical hydraulic gradients, coupled with denser-than-water COCs and extended pumping from bedrock extraction wells MW-5R, MW-7R, and ERT-1 appear to have resulted in the vertical migration of COCs through the overburden aquifer into the bedrock aquifer. Additionally, the finding of 1,1,1-TCA in wells upgradient of the former septic system is likely attributed to historical pumping of the MRIP production wells (MRPW-1 and MRPW-2), the pumping of residential wells in the area, and the possible existence of fractures that extend from the area of the

tank to these wells. MRPW-1 is located at the west end of the building and MRPW-2 is located at the east end of the building. MRPW-2 was pump tested for 48-hours at a rate of 16 gallons per minute indicating that it intercepts a highly transmissive fracture. MRPW-1 at one time contained 1,1,1-TCA at a concentration of 200 µg/L (LMS, 1998a).

Monitoring of the migration and natural attenuation of the plume is accomplished with the LTM program and is further discussed in Section 2.0 of this report. Table 2.2 presents the sampling matrix currently related to the LTM and system performance monitoring.

## **2.0 EVALUATION OF REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS**

The Second Five-Year Review Report (USEPA, 2019) for the Site includes an institutional controls/engineering controls (ICs/ECs) Plan, Operation and Maintenance (O&M) Plan, LTM Plan, and associated reporting (MACTEC, 2019).

### **2.1 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS**

ICs/ECs provide added protection measures for potentially exposed receptors over and above natural attenuation mechanisms and source area remedial measures. ICs for the Site include restrictions to soil excavation, groundwater use and well installations, and a monitoring plan. ECs consist of the GWETS, the site perimeter fence, monitoring wells, and an alternate water supply (MACTEC, 2018a).

Groundwater is captured by the GWETS to confine the plume extent and migration and to recover contaminant mass. The site perimeter fence prohibits unauthorized access to the GWETS building and is inspected monthly. Monitoring wells (on- and off-site) are used for collecting groundwater samples and elevation measurements as part of the LTM program.

NYSDEC and Aztech, its contractor, perform the O&M of the revamped GWET plant and the SSDS system. The ongoing GWET operations consist of extraction of the contaminated groundwater, treatment through an air stripper, and discharge of the treated groundwater to the Coxing Kill. As part of monitoring program, the influent and effluent concentrations of the GWET system, as well as extraction wells ERT-1, MW-5R and MW-7R, are routinely sampled.

#### **2.1.1 Site Controls and Evaluation**

MACTEC has reviewed and tabulated groundwater extraction and treatment quantities from the near field GWETS over the previous two years using information provide by Aztech, as well as raw laboratory data and the extraction system's programmable logic control data for operations. On average, the GWETS system treated groundwater at an average flow rate of 16.2 gpm over the two-

year period. This average flow rate includes periods of system shutdown. While in operation, the flow rate through the GWETS system has ranged from 0.22 to 20.5 gpm.

Based on the extraction quantities at the individual wells, extraction well MW-7R is the most productive well, followed by ERT-1, and then extraction well MW-5R. MW-5R which is shallower than the others, frequently runs dry at its current pumping rate.

### **2.1.2 Groundwater Extraction and Treatment System**

Operating parameters for the GWETS include monitoring volume treated (gallons), flow rate and flow per reporting period (approximately monthly), system downtime, and total volatile organic compounds (VOCs) extracted from groundwater. These quantities are presented in Tables 2.3, 2.4, and 2.5. During the two-year review period, the treatment plant processed approximately 34.1 million gallons of groundwater at an average flow rate of approximately 16.2 gallons per minute (gpm), and removed approximately 18.01 pounds of total VOCs.

The primary objective of the existing GWETS is for hydraulic containment, for which it is effective. However, given the low concentrations in the extracted groundwater, and the poor K between the source area and the extraction wells, this system alone would need to operate indefinitely to achieve clean-up objectives. In an effort to accelerate the rate of remediation, it is recommended that groundwater extraction from the source area is considered.

## **2.2 OPERATION AND MAINTENANCE PLAN**

Remedial measures in place require routine inspection, sampling, and maintenance to provide effective remediation and reduction of exposure to site-related contaminants. The following subsections describe requirements and compliance with the O&M Plan with respect to the GWETS.

### **2.2.1 Groundwater Extraction and Treatment System**

Monthly performance information was generated to summarize GWETS system operation by Aztech and to present operational and maintenance data to the NYSDEC.

Up to May 2022, approximately 43.2 million gallons of extracted groundwater were processed with an average flow rate of approximately 16.2 gpm, and approximately 18.01 pounds of total VOCs were removed (Tables 2.3 and 2.5). System influent and effluent samples were collected and analyzed monthly for VOCs (Table 2.6); therefore, mass removal is an approximation.

Approximate system downtime for the GWETS fluctuated from 2019, 2020, 2021 and 2022: 68 days (MACTEC, 2019), 47 days (MACTEC, 2020), 15 days and 10 days, respectively (Table 2.4).

Class GA standards and guidance values were used for comparison to the treated groundwater being discharged. These numerical limits are applicable at the point of treated groundwater effluent discharge at the end of the force main which leads to the Coxing Kill.

### **2.3 LONG-TERM MONITORING**

The LTM program has been designed to monitor the effects of the GWETS on contaminant levels in groundwater in the vicinity of the Site, to monitor long-term trends in concentrations of contaminants in groundwater, and to evaluate the effectiveness of the remedial actions (MACTEC, 2020). This is accomplished through groundwater sampling and analysis, and through the collection of water level measurements from select wells to generate bedrock and overburden potentiometric surface maps. Since 2019, groundwater sampling events for the Site have been performed on a 15-month basis.

The ROD divided the plume into two categories based on volatile organic compound (VOC) concentrations: the “near field” plume and the “far field” plume. Annual monitoring includes sampling of the background, on-site, mid-plume, and perimeter wells in accordance with the 2019 Field Activities Plan (MACTEC, 2019) which was based on the 2013 LTM monitoring plan (AECOM, 2013). The following wells were sampled during the January 2022 LTM event:

- Ten conventional monitoring wells: MW-1B, MW-4, MW-5B, MW-6B, MW-8B, MW-11B, MW-12B, MW-14B, MW-15B, MW-16
- Four extraction wells: ERT-1, ERT-4, MW-5R and MW-7R
- The FLUTE™ wells were not sampled because they were frozen. The wells not sampled included: MW-17 (Ports 1 - 3), MW-18 (Ports 1-3), MW-19 (Ports 1-3), MW-20 (Ports 1-3), and MW-21 (Ports 1, 2, 3, 4, 5, and 6).

Monitoring well MW-13B was intended to be gauged and sampled; however, it was covered by a snowplow pile and could not be accessed. Additional effort will be made to locate and access this well during the next sampling event.

The wells were sampled and analyzed for VOCs by USEPA Method 8260 and included analysis for 1,4-dioxane by USEPA Method 8270D-SIM. All samples were submitted to Pace Analytical for analysis.

MACTEC personnel sampled the wells from January 18 through January 22, 2022. All sampling procedures followed the approved methods; either low-flow or grab samples.

Groundwater samples were collected and analyzed for VOCs from select wells (Table 2.2) during the July 2019 and January 2022 LTM events and the data was used to delineate the PCE plume. Data tables and figures from the 2019 LTM event were included in the Long Term Monitoring Event Report (MACTEC, 2020). Figures depicting well locations and groundwater contour elevations are included as Figures 1.2 and 2.1, respectively.

From January 18 to 22, 2022, water levels were measured in twelve monitoring wells, two Flute wells and four bedrock extraction wells (Table 2.7). Groundwater elevation readings for active extraction wells were also collected from each well. Figure 2.1 depicts the potentiometric surface when the bedrock extraction wells are pumping and demonstrates groundwater flow is toward the north.

Table 2.8 summarizes January 2022 LTM results observed at concentrations exceeding NYS Class GA water quality standards. The principal compounds detected were TCE, 1,1,1-trichloroethane (TCA), 1,1,2-TCA, 1,1-dichloroethane (DCA), 1,1-DCE, 1,2-DCA, and cis-1,2-DCE. The highest concentrations of 1,1,1-TCA in bedrock were observed in groundwater at ERT-4 (1,530 ug/L) and MW-4 (653 ug/L). Laboratory results for samples were provided to NYSDEC in electronic document delivery format for loading into EQUIS.

These results have been compared to 2019 groundwater sampling results presented in the Long Term Monitoring Event Report. The 2019 groundwater sampling results are included in Attachment A-2. Laboratory results for the 2022 LTM sampling round are provided in Attachment A-3. The chemist's data review report for the 2022 results is provided in Attachment A-4.

## **VOCs.**

The concentration of VOCs in wells within the near field plume in 2022 are consistent with 2019 results. MW-4, MW-5B, and ERT-4 each had total VOCs exceeding 1,000 µg/L with 1,1,1-TCA comprising most of that exceedance. The concentrations were similar between 2022 and 2019; however, 1,1,1-TCA concentrations in MW-5B and MW-5R were observed to decrease in 2022 by nearly half.

In far field wells, concentrations are consistent between the historical and current sampling events; however, concentrations for the three target VOCs (1,1,1-TCA, 1,1,-DCA, TCE, 1,1-DCE) in MW-16 were observed to decrease in 2022 by nearly half (Attachment A-2).

The following is a summary of the results for 1,1,1-TCA, 1,1-DCA, TCE and 1,1-DCE (target VOCs) for wells sampled in 2022:

- MW-1B, MW-8B, MW-9B, and MW-10B – concentrations have remained non-detect for target VOCs, consistent with previous data results
- MW-6B and MW-14B – VOC concentrations have decreased to below NYSDEC groundwater standards
- MW-11B, MW-12B, and MW-7R - concentration of VOCs appears stable compared to previous results
- MW-15B – concentrations of VOCs are consistent with 2019 results
- MW-16 – concentrations of VOCs have shown a steady decline since 2016.

The following is a summary of the results for 1,4-Dioxane for wells sampled in 2022:

- 1-4 Dioxane was detected in all monitoring wells sampled (with exception of MW-1B and MW-10 which were non-detect), at concentrations ranging from 0.48 ug/L (MW-6B) to 4.4 ug/L (MW-9B).

## **2.4 HYDRAULIC MONITORING**

A round of synoptic water level measurements was made on January 18, 2022 from each of the standard monitoring wells that could be located and accessed. Monitoring well MW-13B was located but could not be accessed. Water level measurements were not collected from the FLUTE wells because the water level meter probe was too large to enter the measuring port and/or the wells were frozen.

The groundwater elevations from this event are summarized in Table 2.7.

## **2.5 PROJECT REVIEW MEETING**

On December, 15, 2021, at the request of the NYSDEC, a Project Review Meeting was held to discuss current site remedial objectives and to evaluate the efficiency of current treatment system operations. Remedial System Optimization of the treatment system was discussed to limit impacts to overburden and bedrock groundwater in an effort to decrease the period in which the system would need to be operated to meet RAOs. Further evaluation will be conducted in 2022-2023 to determine the most expeditious and efficient manner to implement the remedy to meet site objectives. Project Review Meetings continue on a monthly basis with the NYSDEC and the New York State Department of Health (NYSDOH).

## **2.6 GEOTHERMAL EVALUATION**

To address potential future energy cost savings and greenhouse gas reduction, two commonly accepted energy conservation measures (ECMs) were evaluated at the Site. These ECMs include ground source heat pump (GSHP) for space heating and cooling and Solar Photovoltaic (PV) for local electric power generation. A GSHP system utilizes the earth as a heat source or heat sink depending upon the season to provide heating and/or cooling for a building.

The Site represents an excellent candidate as a pilot project for implementing existing groundwater treatment technologies in a unique way to reduce utility expenditures as well as greenhouse gas output. The proposed project includes a full-sized Solar PV system (40 kW) that can provide 100% of the site electrical needs on an annual basis as well as offsetting the increased electrical consumption of the GSHP system. The GSHP system eliminates propane usage while utilizing existing process infrastructure. The large amount of clear land associated with many remedial sites make them great candidates for solar PV arrays. The findings of the assessment were summarized in the Ground Source Heating and Solar Photovoltaic Evaluation letter (MACTEC, 2022).



### 3.0 COST CONTROL SUMMARY

A cost summary for May 2019 - May 2022 is provided below by task. As shown, most of the SM costs for were incurred for operation and maintenance of the treatment systems.

Task 1 <sup>a</sup> (Scoping)	
Labor	\$8,618.76
Task 2 <sup>a</sup> (Monitoring and Reporting)	
Labor	\$60,401.19
Lodging, Travel, and MI&E	\$2,910.70
Shipping	\$474.36
Supplies & Equipment	\$2,429.82
Laboratory Services *	\$26,743.15
	\$92,959.22
Task 3 <sup>a</sup> (RSO)	
Labor	\$3,556.10
GWETS Operations and Maintenance	
Electricity*	\$20,943.65
Propane*	\$2,720.62
Subcontractor Services <sup>b</sup>	\$200,596.53
	\$224,260.80
<b>Total:</b>	<b>\$329,392.88</b>
NOTES:	
<sup>a</sup> Task is associated with the current Work Assignment No. D009809-25.	
<sup>b</sup> Aztech Remedial Contractor costs.	
*NYSDEC Direct Expense.	

Since the NYSDEC assumed responsibility for the Site, optimization measures to reduce the overall operating expenses have been and will continue to be implemented to provide further cost savings at the Site.

## **4.0 CONCLUSIONS AND RECOMMENDATIONS**

Based on information gathered during the 2016 RSO investigation, the RSO Pilot Test was designed for optimization of the GWETS to target bedrock fracture zones for recovery and removal of VOCs of concern from groundwater. Following completion of optimization measures effectiveness of the GWETS with respect to achieving the RAO should increase, and operating costs should decrease. The GWETS is continuing to treat groundwater within the Site’s source area to reduce contaminant mass. A comparison of costs to evaluate operating expenses before and after system optimization will be presented in the next PRR.

### **4.1 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS**

The current ICs/ECs are adequate to achieve the objectives for protection of human health and the environment based on current site use. ICs for the Site, including a restriction on soil excavation, groundwater use and well installations, and a monitoring plan remain in-place and adhered to.

ECs include the GWETS, the site perimeter fence, monitoring wells, and an alternate water supply. The GWETS remains effective at treating impacted groundwater and at preventing further migration of impacted groundwater, as evidenced by the monthly effluent sampling data that shows compliance with surface water discharge criteria, and by LTM and semiannual monitoring data collected from on- and off-site monitoring wells. The groundwater discharge permit equivalent, which includes this discharge criteria, is included in Attachment A-5. The site perimeter fence is inspected monthly and continues to restrict unauthorized access to the GWETS building.

### **4.2 OPERATION AND MAINTENANCE PLAN**

The remedial measures in place require routine inspection, sampling, and maintenance to provide effective remediation and reduction of exposure to site-related contaminants. Compliance with procedures and requirements in the SMP was maintained during the reporting period. Site-related VOCs in effluent water samples did not exceed Class GA standards and guidance values during the reporting period, thus meeting surface discharge limits. Monthly progress reports, generated during

the reporting period summarizing GWETS operational and maintenance, will continue to be generated and submitted to the NYSDEC.

#### **4.3 RSO PILOT TEST GROUNDWATER MONITORING PROGRAM**

Monitoring the migration and/or degradation of the plume is accomplished through the LTM. Sufficient data has been collected on an annual basis to assess the overall concentration trends in groundwater. LTM sampling currently occurs every 15 months to incorporate seasonality in the data.

During the implementation of the RSO Pilot test, MACTEC will specifically collect quarterly groundwater samples from the 6 monitoring wells (MW-4, MW-5B, ERT-4, MW-11B, MW-12B, and MW-15B) that contain the water level data loggers, and the 3 extraction wells (ERT-1, MW-5R, and MW-7R). Monitoring wells will be sampled using low-flow sampling procedures, if possible.

Field measurements for pH, temperature, specific conductivity, oxidation reduction potential, turbidity, and dissolved oxygen will be collected through a flow through cell from each monitoring well during pre-sample purging. Field measurements and monitoring well sampling activities will be documented using Low Flow Sampling Field Data Records.

**Groundwater Analytical Methods.** Quarterly groundwater samples will be collected for laboratory analysis as shown on Table 2.2 and summarized below:

- Up to 9 locations for VOCs (plus quality control [QC] samples) by USEPA Method 8260.
- Up to 9 locations for analysis of 1,4-dioxane by method 8270.

Groundwater samples will be submitted to ConTest: East Longmeadow, MA Laboratory for analysis. Results will be reported in a Category B deliverable.

#### **4.4 RECOMMENDATIONS**

To continue optimizing system efficiency and remedial progress and to provide further cost savings at the Site, the following are recommended:

- Continued implementation, review, and evaluation of the existing ICs/ECs, O&M Plan, and groundwater monitoring program, as applicable
- Continued routine GWETS maintenance

- Monthly site visits conducted by Aztech
- Annual inspection of building heaters
- General housekeeping activities to improve work processes and eliminate general clutter
- Troubleshoot well components as needed to maintain normal system operation.
- Implementation of the RSO Pilot Test
- Further evaluation of the potential use for solar energy on-site

## 5.0 REFERENCES

AECOM, 2013. Annual Monitoring Well Sampling Report, Mohonk Road Industrial Plant Superfund Site, Hamlet of High Falls, New York. November 2013.

Lawler, Matusky & Skelly Engineers [LMS], 1998. Remedial Investigation Report Volume 1. Mohonk Road Industrial Plant Site. Site No. 356023. Prepared for New York State Department of Environmental Conservation. September 1998.

MACTEC Engineering and Consulting, P.C. (MACTEC), 2015. Conceptual Site Model (CMS) and Data Gap Review, Mohonk Road Industrial Plant, NYSDEC, Site Number 356023. July 2015.

MACTEC, 2016. Remedial System Optimization Report – Mohonk Road Industrial Plant Site, Site Number 356023. June 2016.

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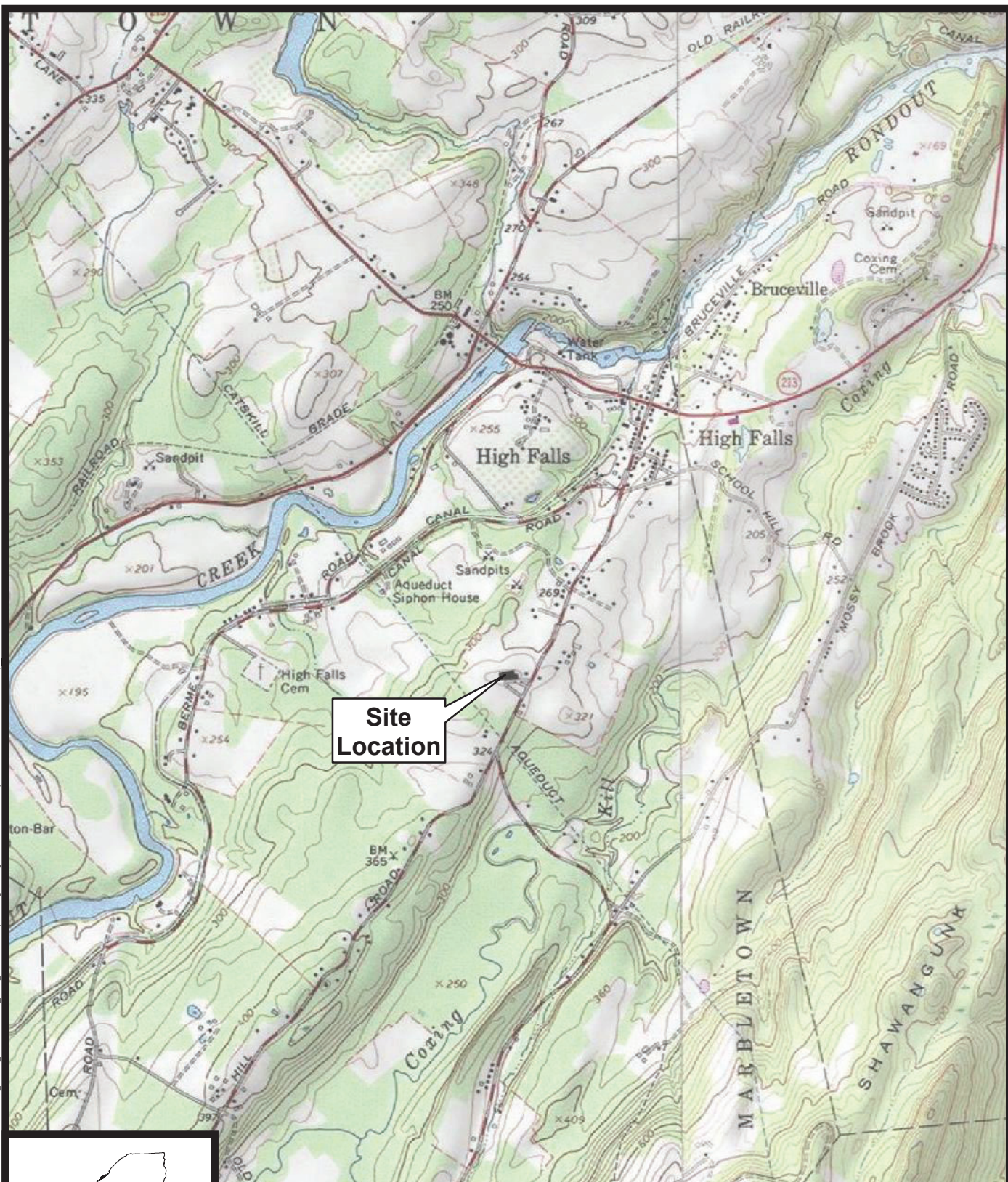
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United States Environmental Protection Agency (USEPA) Region 2, 2008. Record of Decision Amendment, Mohonk Road Industrial Plant Superfund Site, Hamlet of High Falls, Ulster County, New York. September 2008.

USEPA, 2019. Second Five-Year Review Report, Mohonk Road Industrial Plant Superfund Site, Hamlet of High Falls, Ulster County, New York. May 2019

## FIGURES

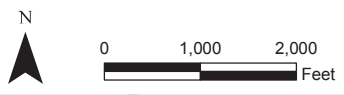
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**Site Location**



Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

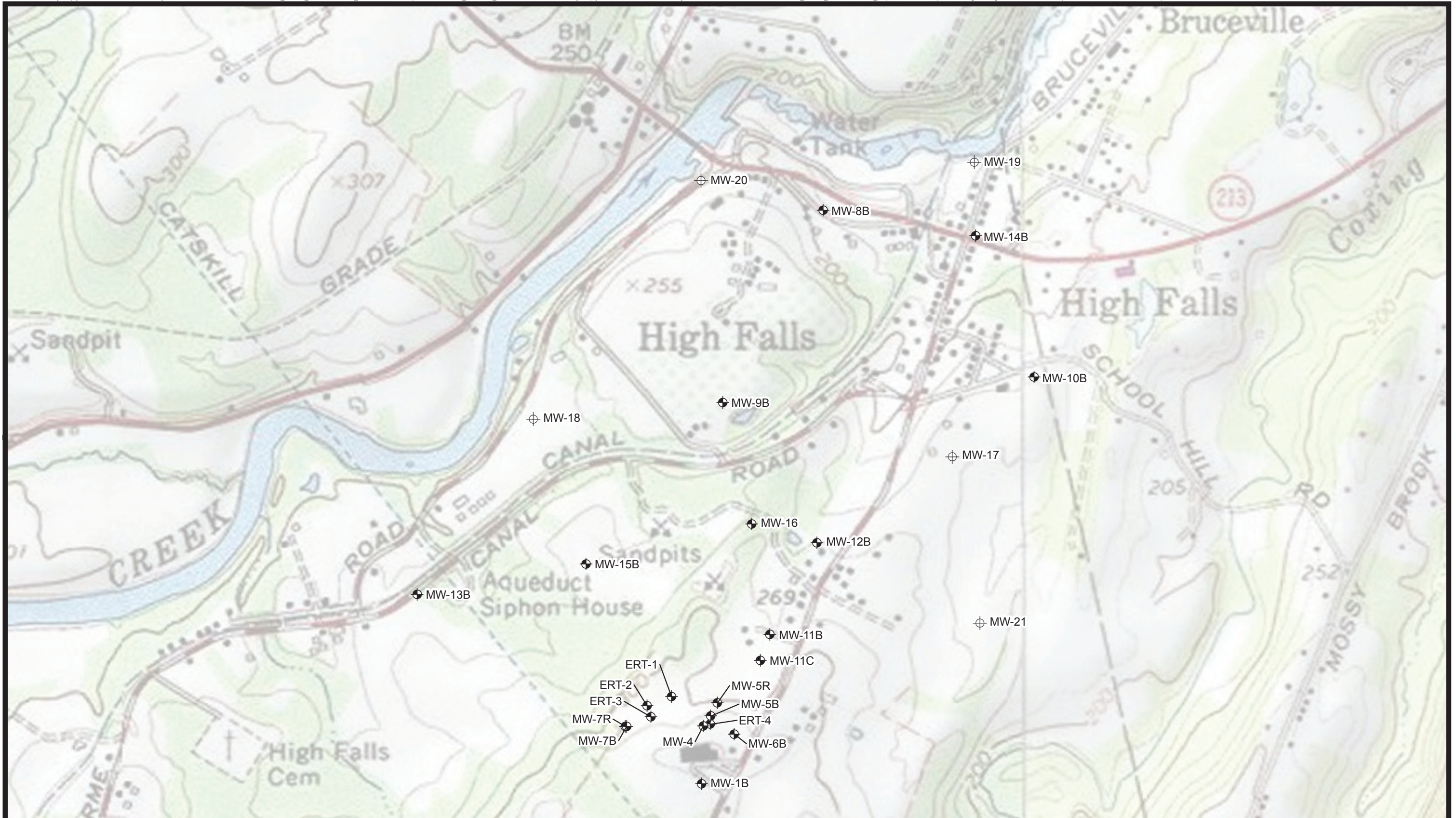


Prepared/Date: BRP 07/07/15  
Checked/Date: JB 07/07/15

NYSDEC  
Mohok Road Industrial Plant  
Marbletown, New York



Site Location Map  
Project 7772210116 Figure 1.1



**Legend**

- Standard Monitoring Well
- FLUTe Monitoring Well

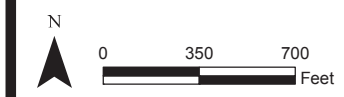
Topographic map: Copyright:© 2013 National Geographic Society, i-cubed

NYSDEC  
Mohok Road Industrial Plant  
Marbletown, New York

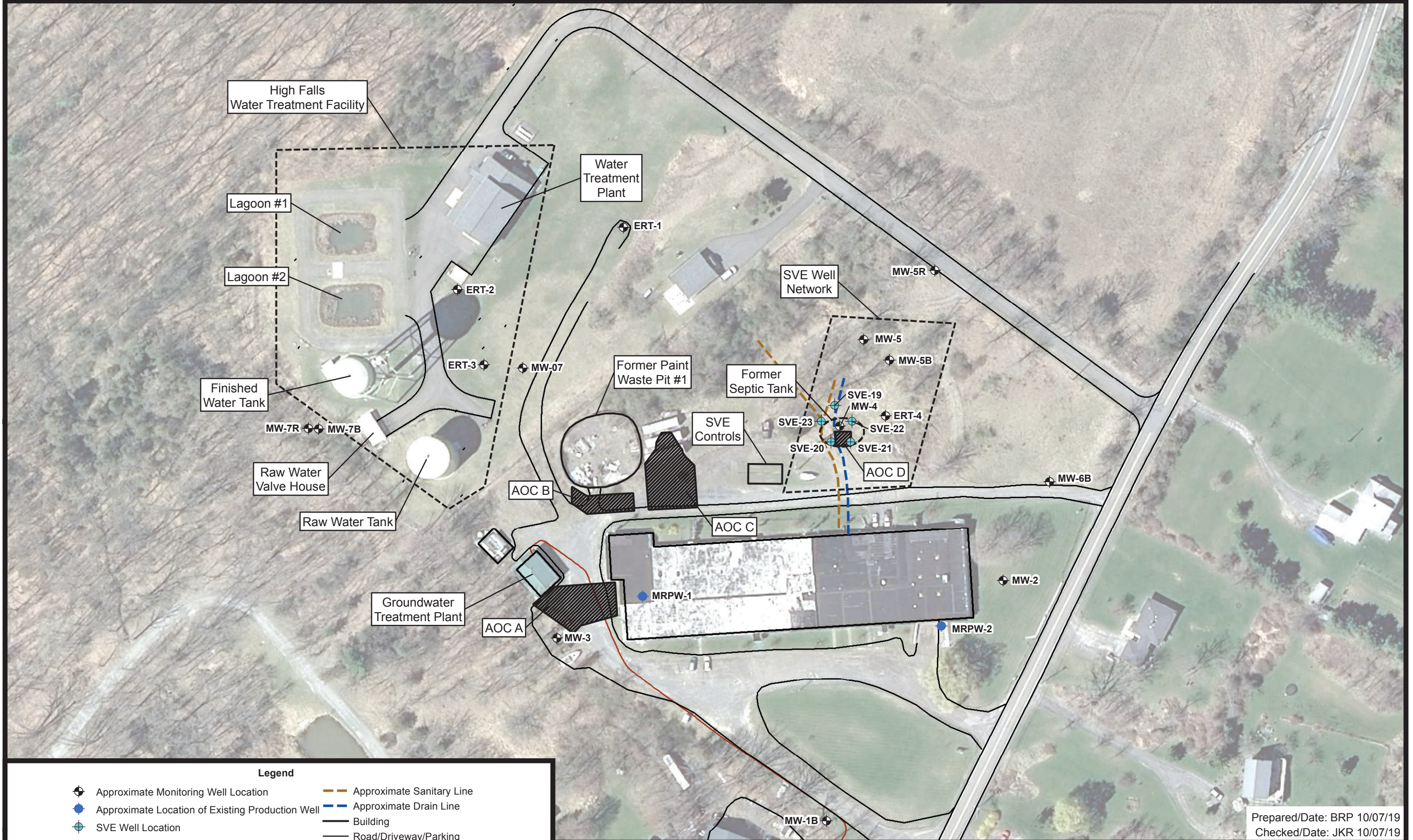


Well Location Map  
Project 7772210116 Figure 1.2

Prepared/Date: BRP 10/07/19  
Checked/Date: JKR 10/07/19







**Legend**

◆ Approximate Monitoring Well Location	— Approximate Sanitary Line
● Approximate Location of Existing Production Well	— Approximate Drain Line
⊕ SVE Well Location	▭ Building
	— Road/Driveway/Parking
	— Treatment System Discharge

0 50 100 Feet

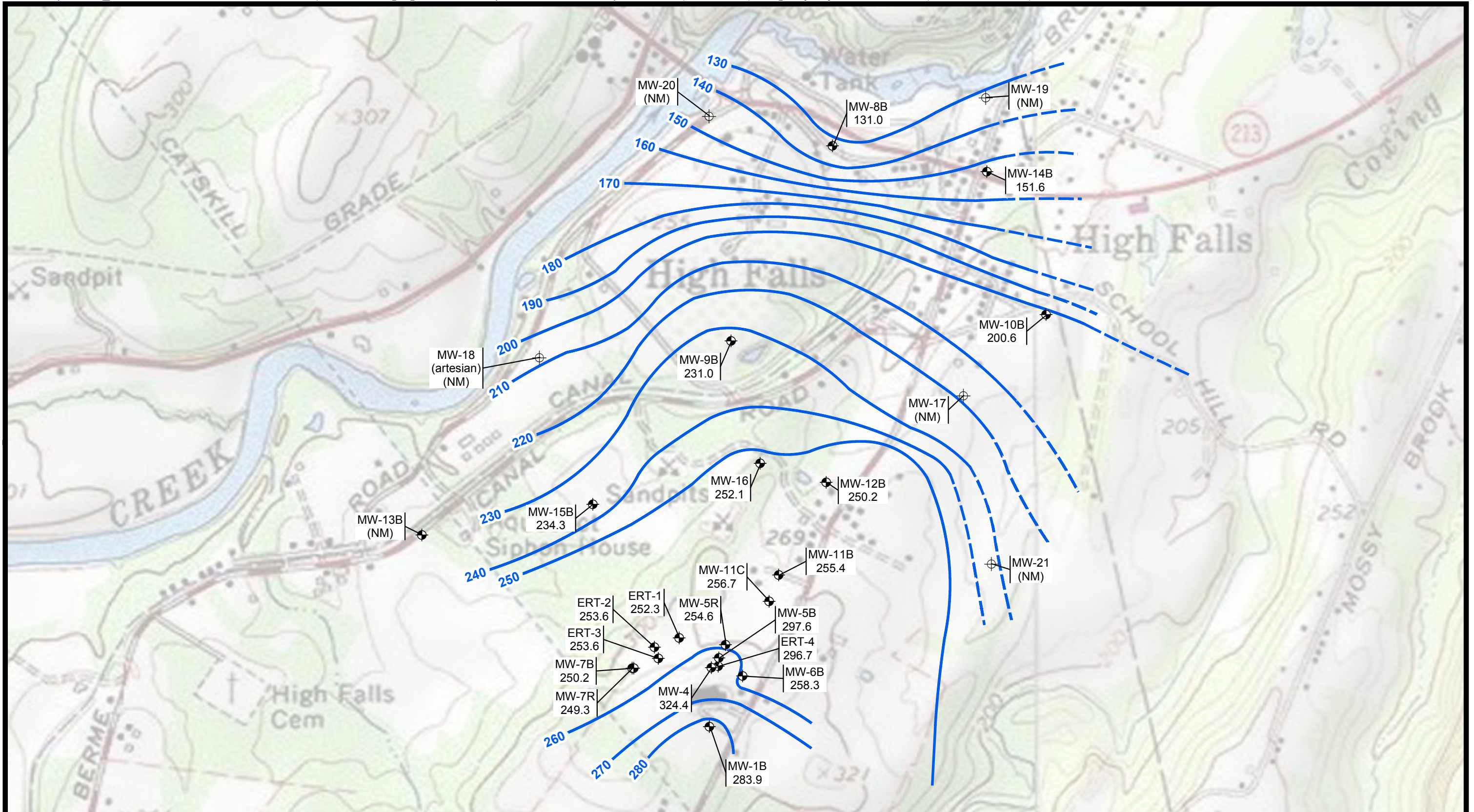
Ulster County color digital orthoimagery (2013) obtained from New York State GIS Clearinghouse at: <http://www.nysgis.state.ny.us>

NYSDEC  
Mohonk Road Industrial Plant  
Marbletown, New York



Site Layout  
Project 7772210116 Figure 1.3

Prepared/Date: BRP 10/07/19  
Checked/Date: JKR 10/07/19



**Legend**

- Standard Monitoring Well (Symbol: circle with crosshair)
- FLUTE Monitoring Well (Symbol: circle with crosshair)
- Overburden Groundwater Elevation Contour (feet above msl) (Symbol: solid blue line)
- Dashed where Inferred (Symbol: dashed blue line)
- (NM) = Not Measured

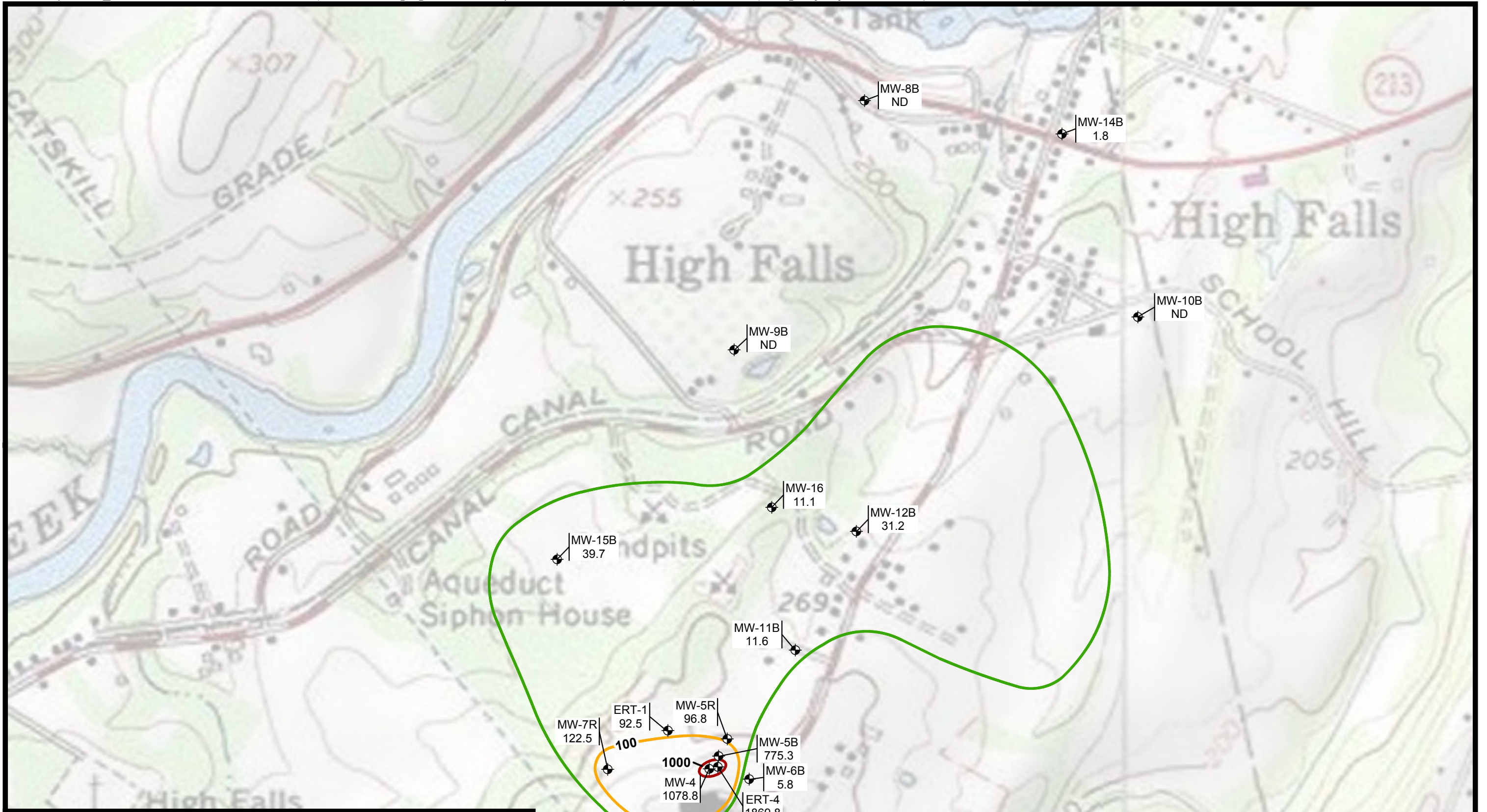
Scale: 0, 350, 700 Feet

NYSDEC  
Mohok Road Industrial Plant  
Marlettown, New York



Water Elevation Contours  
January 2022  
Project 7772210116  
Figure 2.1

Prepared/Date: BRP 07-18-22  
Checked/Date: CK 07-18-22



**Legend**

Total VOCs (µg/L):

- 10
- 100
- 1000

Standard Monitoring Well

ND - Not Detected

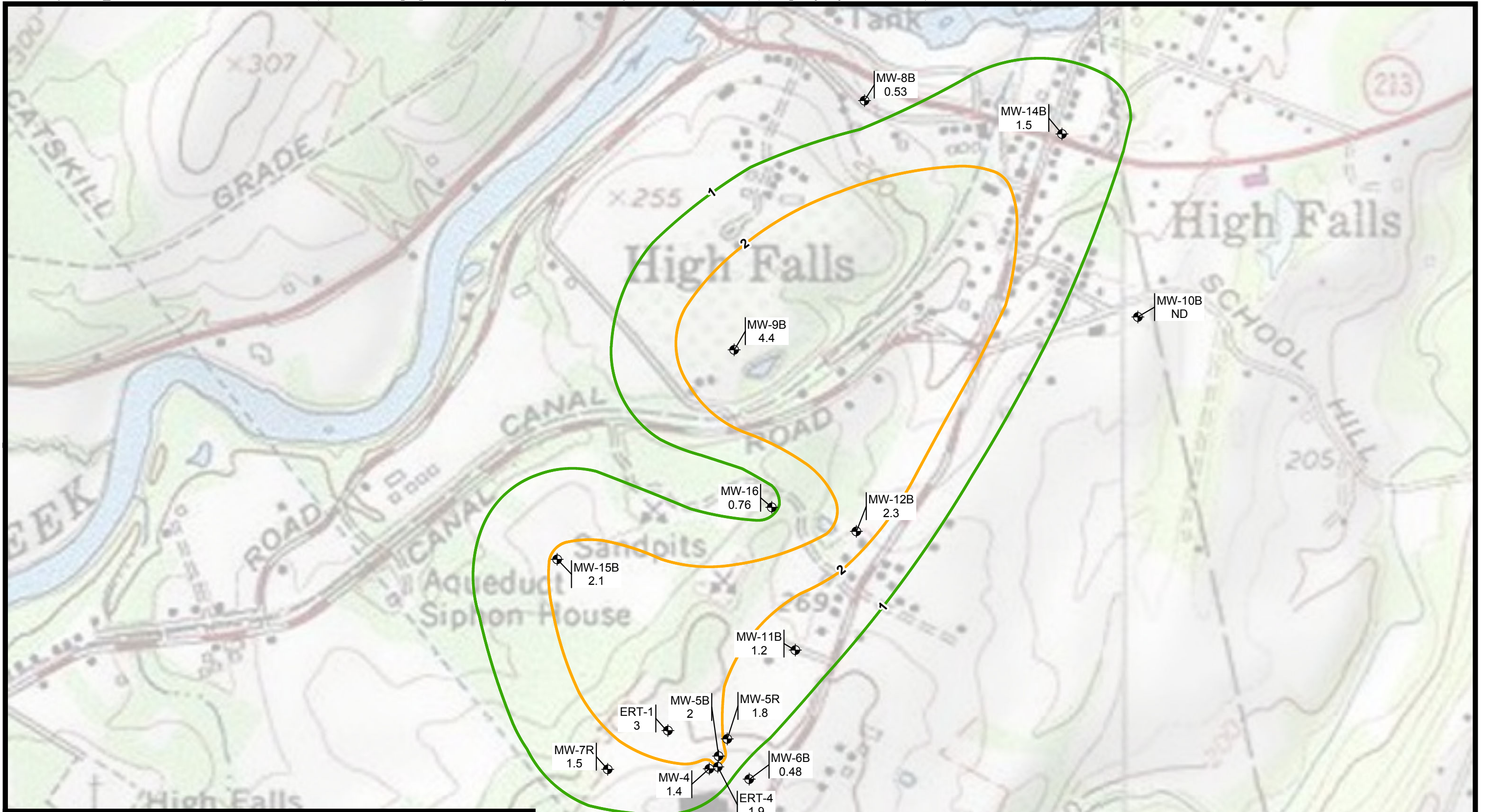
0 275 550 Feet

Topographic map: Copyright:© 2013 National Geographic Society, i-cubed

NYSDEC Site # 356023  
 Mohonk Road Industrial Plant  
 Marletown, New York

Prepared/Date: BRP 12-13-22  
 Checked/Date: JB 12-13-22

Total VOCs (1,1,1-TCA, 1,1-DCA, TCE, 1,1-DCE)  
 Isoconcentrations in Groundwater (2022)  
 Project 7772210116  
 Figure 2.2



**Legend**

1,4-Dioxane (µg/L):  
 1 (Green line)  
 2 (Orange line)

Standard Monitoring Well (Symbol)  
 ND - Not Detected

0 275 550 Feet  
 Topographic map: Copyright:© 2013 National Geographic Society, i-cubed

NYSDEC Site # 356023  
 Mohonk Road Industrial Plant  
 Marletown, New York

1,4-Dioxane  
 Isoconcentrations in Groundwater (2022)  
 Project 7772210116  
 Figure 2.3

Prepared/Date: BRP 12-13-22  
 Checked/Date: JB 12-13-22

## **TABLES**

**Table 2.1: Site Management Requirements**

Component	Action	Required Frequency	Comments/Recommendations
<b>Groundwater Extraction and Treatment System</b>			
GWETS Operation Checklist	Inspection	Each O&M visit	Check groundwater treatment system operation: flow rates, meter readings, system components, Redux volume.
Extraction Wells	Inspection	Each O&M visit	Check extraction wells, housing, control panels.
Control Panel, Heaters	Inspection	Each O&M visit	Check function of control panel indicating lights.
SSDS	Inspection	Each O&M visit	Check operation of 7 fans
Safety Equipment, Treatment Plant Lighting	Inspection	Monthly	Inspect safety equipment (ladders, eyewash, fire extinguishers, etc.). Inspect plant lighting for proper operation.
Site Security	Inspection	Monthly	Check treatment building door locks, fencing, and site perimeter fence for defects.
Air Stripper	Inspection/ Maintenance	Annually	Perform cleaning of air stripper unit trays and sump, if necessary.
Treatment Plant Heaters	Inspection/ Maintenance	Annually	Annual inspection and cleaning of heaters; to be performed by a licensed subcontractor.
Groundwater Monitoring System	Inspection	15-Month	Visually inspect well pads/locks at site wells; repair as necessary to maintain integrity and security.
<b>System Performance Monitoring</b>			
Influent Header	Plant influent water sampling	Monthly	Grab samples collected from each active extraction wells to monitor and evaluate GWETS performance.
Treatment Plant Discharge	Plant effluent water sampling	Monthly	Grab influent and effluent samples collected to monitor and evaluate GWETS performance.
<b>Environmental Monitoring</b>			
Groundwater Elevation Monitoring	Groundwater elevation measurements	15-Month	Collect groundwater elevation measurements for active extraction wells and select monitoring wells to monitor hydraulic control of the plume near the site.
Environmental Groundwater Sampling	Groundwater sampling of monitoring wells	15-Month sampling interval	Grab/low flow samples collected from monitoring wells, active bedrock and overburden extraction wells.

**Notes:**

- GWETS = Groundwater extraction and treatment system
- O&M = Operation and maintenance
- SSDS = Sub-Slab Depressurization System

**Table 2.2: Long-Term Monitoring and System Performance Sampling Matrix**

Well ID/Sampling Location	Water Level Measurements	VOCs	Sample Description
<b>Monitoring Wells (15-Month LTM)<sup>1</sup></b>			
MW-1B	X	X	Low Flow Sampling
MW-4	X	X	Low Flow Sampling
MW-5B	X	X	Low Flow Sampling
MW-6B	X	X	Low Flow Sampling
MW-8B	X	X	Low Flow Sampling
MW-9B	X	X	Low Flow Sampling
MW-10B	X	X	Low Flow Sampling
MW-11B	X	X	Low Flow Sampling
MW-12B	X	X	Low Flow Sampling
MW-13B	X	X	Low Flow Sampling
MW-14B	X	X	Low Flow Sampling
MW-15B	X	X	Low Flow Sampling
MW-16	X	X	Low Flow Sampling
<b>Active Extraction Wells (15-Month LTM)<sup>1</sup></b>			
ERT-1	X	X	Low Flow Sampling
ERT-4 <sup>2</sup>	X	X	Low Flow Sampling
MW-5R	X	X	Low Flow Sampling
MW-7R	X	X	Low Flow Sampling
<b>Flute Wells (15-Month LTM)<sup>1</sup></b>			
MW-17 - Ports 1, 2, 3	X	X	Low Flow Sampling
MW-21 - Ports 1, 2, 4, 5, 6	X	X	Low Flow Sampling
<b>GWETS Performance (Monthly)</b>			
MW-5R	NA	VOCs, TDS, TSS, Iron, pH, 1,4 Dioxane	Grab
MW-7R	NA	VOCs, TDS, TSS, Iron, pH, 1,4 Dioxane	Grab
ERT-1	NA	VOCs, TDS, TSS, Iron, pH, 1,4 Dioxane	Grab
Pre Air Stripper Combined Influent	NA	VOCs, TDS, TSS, Iron, pH, 1,4 Dioxane	Grab
Air Stripper Effluent	NA	VOCs, TDS, TSS, Iron, pH, 1,4 Dioxane	Grab

**Notes:**

- <sup>1</sup> = 15-Month LTM occurred January 2022.
- <sup>2</sup> = ERT-4 Not currently active extraction well.

- GWETS = Groundwater extraction and treatment system
- LTM = Long-term monitoring
- NA = Not applicable
- PDB = Passive diffusion bag
- TDS = Total dissolved solids
- TSS = Total suspended solids
- VOCs = Volatile organic compounds

**Table 2.3: Treatment Plant Monthly Throughput**

Calendar Year	Month												Total for Calendar Year (Gallons)	Cumulative Total Throughput (Gallons)
	January	February	March	April	May	June	July	August	September	October	November	December		
2019	---	---	---	---	1,138,817	1,060,339	395,874	67,181	495,868	803,554	929,674	926,426	5,817,733	5,817,733
2020	1,072,074	544,392	479,267	466,764	466,764	466,764	379,430	468,886	615,731	728,802	465,235	796,914	6,951,023	12,768,756
2021	790,635	352,708	981,784	1,004,442	930,594	690,418	855,370	839,488	651,835	1,048,603	590,810	117,981	8,854,668	21,623,424
2022	434,600	130,222	717,995	665,129	597,895	---	---	---	---	---	---	---	2,545,841	24,169,265

**Notes:**

Monthly amounts reported in gallons.  
 Reported timeframe May 2019 through May 2022



**Table 2.4: Estimated Groundwater Extraction and Treatment System Downtime**

Year	Month	Estimated Downtime (days)	Reasoning
2019	May	0	
	June	0	
	July	19	5 days down due to transfer pump and ERT-1 VFD; 14 days down due to pilot test procedures
	August	31	31 days down for pilot test procedures ERT-1 ran for 3 days to test
	September	18	18 days down due to pilot test procedures
	October	<1	Less than 1 day down due to transfer pump, 7R and 5R not running from 10/17 - 10/22
	November	4	4 days down due to transfer pump drive
	December	7	7 days down due to transfer pump drive
<b>Total for 2019 Year</b>		<b>79</b>	
2020	January	0	
	February	0	
	March	1	Down for 1 day due to power outage; restarted the next day 3/35
	April	19	Down for 14 days due to power issue causing the procontrol to not send emails from 1st of the month through the 14th; Down for 5 more days 23rd to 27th due to reoccurring power issue
	May	10	Down for 10 days due to electrical fail no data from procontrol 12th to 21st
	June	23	Down due to air stripper temp alarm issue for 2 days 1st to 3rd; Down due to power issue for 11 days 7th to 17th; Down due to power outage 10days 21st to 30th
	July	13	Down for 8 days due to power issue from June; Down for 5 days due to power issue
	August	13	Down for 11 days due to power issue and precaution due to lack of Redux 1st to 12th; Down 2 days due to transfer pump drive 27th -29th
	September	0	
	October	0	
	November	11	Down 11 days due to power fail and transfer pump drive issue 2nd to 12th
	December	0	
<b>Total for 2020 Year</b>		<b>90</b>	
2021	January	0	
	February	0	
	March	2	Down 2 days due to power fail 18th to 20th
	April	1	Down 1 day due to transfer pump drive 30th
	May	1	Down 1 day due to transfer pump drive 4th
	June	1	Down one day due to wet floor alarm issue 7th
	July	<1	Down less than a day due to air stripper VFD fail 17th
	August	4	Down for 4 days due to Transfer pump VFD 22nd to 25th
	September	0	
	October	1	Down for 1 day due to wet floor alarm 27th
	November	0	
	December	2	Down for 2 days due to power fail 6th to 8th
<b>Total for 2021 Year</b>		<b>12</b>	
2022	January	0	
	February	0	
	March	3	Down for 3 days due to transfer pump drive
	April	0	
	May	0	
<b>Total for 2022 Year</b>		<b>3</b>	
<b>Total for Timeframe</b>		<b>184</b>	

**Notes:**

Reported timeframe May 2019 through May 2022

**Table 2.5: Total VOCs in Extracted Groundwater (lbs)**

Month	2019	2020	2021	2022
January	---	0.66	0.48	0.38
February	---	0.36	0.20	0.08
March	---	0.39	0.61	0.63
April	---	0.52	0.68	0.51
May	2.54	0.38	0.64	0.64
June	1.13	0.44	0.42	---
July	0.00	0.57	0.35	---
August	0.00	0.55	0.39	---
September	0.00	0.43	0.37	---
October	0.76	0.16	0.53	---
November	0.65	0.30	0.35	---
December	0.55	0.28	0.10	---
Total for Calendar Year (lbs)	5.62	5.03	5.12	2.24
Cumulative Total VOCs (lbs)	5.62	10.65	15.77	18.01

**Notes:**

Reported timeframe May 2019 through May 2022

Total VOCs in Extracted Groundwater equals GWETS influent total VOCs concentrations per month multiplied by the monthly flow rate and the monthly system operating duration.

lbs = Pounds

VOCs = Volatile organic compounds

Table 2.6: System Performance Sampling Results

Parameter			1.1.1- Trichloroethane	1.1.2- Trichloroethane	1.1- Dichloroethane	1.1- Dichloroethylene	1.2- Dichloroethene	1.2- Dichloroethene Total	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chloroform	Methylene Chloride	Toluene	Trichloroethylene	Iron	pH	Total Dissolved Solids	Total Suspended Solids	
Units			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	SU	mg/L	mg/L	
NYS Class GA			5	1	5	5	0.6	-	-	50	1	5	7	5	5	-	300	-	-	-	
MW-5R	L	4/29/2019 (Mav)	5R	130	ND	7	28	0.64 J	ND	ND	ND	ND	ND	ND	ND	8.1	ND	7.6	375	ND	
MW-5R	L	6/5/2019	5R	68	ND	4.5 J	18	ND	ND	ND	ND	ND	ND	ND	ND	5.5	ND	7.4	417	ND	
MW-5R	L	7/1/2019	5R	63	ND	3.8	14	ND	ND	ND	ND	ND	ND	ND	ND	5.2	0.23	7.5	472	ND	
MW-5R	L	10/3/2019	5R	93	ND	7.1	27	ND	ND	ND	ND	ND	ND	ND	ND	7.3	0.024 J	7.2	391	ND	
MW-5R	L	11/13/2019	5R	58	ND	3.8 J	16	ND	ND	ND	ND	ND	ND	ND	ND	5.1	ND	7.2	481	ND	
MW-5R	L	12/16/2019	5R	24	ND	1.4 J	6	ND	ND	ND	ND	ND	ND	ND	ND	2.7 J	0.026 J	6.9	94	ND	
MW-5R	L	1/10/2020	5R	28	ND	1.8 J	7.9	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	ND	7	398	ND	
MW-5R	L	2/5/2020	5R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5R	L	3/13/2020	5R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5R	L	4/13/2020	5R	44	ND	2.0 J	9.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	7.2	332	ND	
MW-5R	L	4/27/2020	5R	32	ND	1.5 J	7.3	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J	ND	6.7	292	ND	
MW-5R	L	5/7/2020	5R	42	ND	2.8 J	11	ND	ND	ND	ND	ND	ND	ND	ND	3.6 J	ND	7.3	365	ND	
MW-5R	L	6/3/2020	5R	100	ND	7.7	31	ND	ND	ND	ND	ND	ND	ND	ND	7.7	ND	7.2	470	ND	
MW-5R	L	7/8/2020	5R	240	ND	19	59	ND	ND	ND	ND	ND	ND	ND	ND	17	ND	7	368	ND	
MW-5R	L	8/10/2020	5R	210	ND	97	23	ND	3.3	ND	ND	ND	ND	ND	ND	1.8	ND	7.2	424	ND	
MW-5R	L	9/3/2020	5R	59	ND	5	20	ND	6.0	ND	ND	ND	ND	ND	ND	5.2	ND	7.1	489	ND	
MW-5R	L	10/15/2020	5R	32	ND	3.0 J	11	ND	ND	ND	ND	ND	ND	ND	ND	4.8	ND	6.9	296	ND	
MW-5R	L	11/12/2020	5R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5R	L	12/1/2020	5R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5R	L	1/14/2021	5R	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5R	L	2/25/2021	5R	25	ND	1.6 J	7.4	ND	ND	ND	ND	ND	ND	ND	ND	2.4 J	ND	7.1	520	ND	
MW-5R	L	3/23/2021	5R	30	ND	1.6 J	7.9	2.1 J	ND	ND	ND	ND	ND	ND	ND	2.1 J	ND	7	399	ND	
MW-5R	L	4/5/2021	5R	32	ND	1.5	5.3	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	6.9	352	ND	
MW-5R	L	5/6/2021	5R	35	ND	2.1	9.6	ND	ND	ND	ND	ND	ND	ND	ND	2.8	ND	7.2	731	ND	
MW-5R	L	6/7/2021	5R	36	ND	2.6	9.8	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	7.1	388	ND	
MW-5R	L	7/7/2021	5R	14	ND	1.6	5.2	ND	ND	ND	ND	ND	ND	ND	ND	2.6	ND	7.1	459	ND	
MW-5R	L	8/19/2021	5R	38	ND	4.3	12	ND	ND	ND	ND	ND	ND	ND	ND	4.2	0.020 J	7	381	ND	
MW-5R	L	9/1/2021	5R	27	ND	1.9 J	7.7	ND	ND	ND	ND	ND	ND	ND	ND	2.8 J	ND	7.1	369	ND	
MW-5R	L	10/13/2021	5R	42	ND	3.1 J	13	ND	ND	ND	ND	ND	ND	ND	ND	4.2 J	ND	6.9	384	4.8	
MW-5R	L	11/10/2021	5R	53	ND	3.6 J	16	ND	ND	ND	ND	ND	ND	ND	ND	4.9 J	ND	6.9	396	ND	
MW-5R	L	12/28/2021	5R	39	ND	2.1	11	ND	ND	NA	NA	ND	ND	ND	ND	2.9	0.0264 J	6.6	435	ND	
MW-5R	L	1/19/2022	5R	72	ND	5.8	21.1	ND	ND	NA	NA	ND	ND	ND	ND	5.5	ND	7	411	ND	
MW-5R	L	2/2/2022	5R	45.8	ND	5.3	14.5	ND	ND	NA	NA	ND	ND	ND	ND	5.2	ND	6.9	423	ND	
MW-5R	L	3/9/2022	5R	15.2	ND	ND	2.2	ND	ND	NA	NA	ND	ND	ND	ND	1.3	ND	7.1	403	ND	
MW-5R	L	4/7/2022	5R	36.7	ND	2.7	11	ND	ND	NA	NA	ND	ND	ND	ND	3.5	ND	6.6	422	1.2 J	
MW-5R	L	5/11/2022	5R	68.5	ND	4.4	20	ND	ND	4.4	NA	ND	ND	ND	ND	ND	ND	7	370	ND	

Table 2.6: System Performance Sampling Results

Parameter			1.1.1- Trichloroetha ne	1.1.2- Trichloroetha ne	1.1- Dichloroethan e	1.1- Dichloroethyle ne	1.2- Dichloroethen e	1.2- Dichloroethen e Total	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chloroform	Methylene Chloride	Toluene	Trichloroethyl ene	Iron	pH	Total Dissolved Solids	Total Suspended Solids
Units			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	SI	mg/L	mg/L
NYS Class GA			5'	1	5'	5'	0.6	-	-	50	1	5	7	5'	5'	5'	300	-	-	-
MW-7R	L	4/29/2019 (Mav)	7R	330	ND	130	32	0.51 J	4.9	ND	ND	ND	ND	ND	ND	2.5	ND	7.9	421	ND
MW-7R	L	6/5/2019	7R	97	ND	39	12	ND	ND	ND	ND	ND	ND	ND	ND	1.8 J	ND	7.4	466	ND
MW-7R	L	7/1/2019	7R	100	ND	38	12	ND	1.5 J	ND	ND	ND	ND	ND	ND	0.98 J	ND	7.5	388	ND
MW-7R	L	10/3/2019	7R	86	ND	37	12	ND	ND	ND	ND	ND	ND	ND	ND	0.75 J	ND	7.2	354	ND
MW-7R	L	11/13/2019	7R	60	ND	22	9.3	ND	ND	ND	ND	ND	ND	ND	ND	1.1 J	ND	7.3	317	4.8
MW-7R	L	12/16/2019	7R	54	ND	19	8.8	ND	ND	ND	ND	ND	ND	ND	ND	1.2 J	ND	6.8	351	ND
MW-7R	L	1/10/2020	7R	54	ND	20	8	ND	ND	ND	ND	ND	ND	ND	ND	1.7 J	ND	7.1	364	ND
MW-7R	L	2/5/2020	7R	47	ND	17	7.4	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	7.2	368	ND
MW-7R	L	3/13/2020	7R	70	ND	25	11	ND	ND	ND	ND	ND	ND	ND	ND	2.3 J	ND	7.1	384	4.4
MW-7R	L	4/13/2020	7R	ND	180	ND	80	22	ND	ND	ND	ND	ND	ND	ND	2.3 J	ND	7.4	336	ND
MW-7R	L	4/27/2020	7R	160	ND	66	18 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	357	ND
MW-7R	L	5/7/2020	7R	81	ND	32	11	ND	ND	ND	ND	ND	ND	ND	ND	2.3 J	ND	7.3	322	ND
MW-7R	L	6/3/2020	7R	240	ND	98	23	ND	ND	ND	ND	ND	ND	ND	ND	1.4 J	ND	7.3	435	ND
MW-7R	L	7/8/2020	7R	250	ND	110	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.1	8960	ND
MW-7R	L	8/10/2020	7R	240	ND	120	30	ND	3.3	ND	ND	ND	ND	ND	ND	0.88 J	ND	7.2	432	ND
MW-7R	L	9/3/2020	7R	360	ND	130	43	ND	6	ND	ND	ND	ND	ND	ND	1.1	ND	7.1	437	ND
MW-7R	L	10/15/2020	7R	41	ND	18	7.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.020 J	6.8	284	ND
MW-7R	L	11/12/2020	7R	86	ND	39	13	1.9 J	ND	ND	ND	ND	ND	ND	ND	0.55	ND	7.1	1190	ND
MW-7R	L	12/1/2020	7R	37	ND	12	5.2	ND	0.55 J	ND	ND	ND	ND	ND	ND	1.3	ND	8.1	389	ND
MW-7R	L	1/14/2021	7R	49	ND	15	11	ND	ND	ND	ND	ND	ND	ND	ND	2.2 J	ND	7	556	ND
MW-7R	L	2/25/2021	7R	60	ND	21	11	ND	ND	ND	ND	ND	ND	ND	ND	2.3 J	ND	7.2	390	ND
MW-7R	L	3/23/2021	7R	73	ND	23	11	ND	ND	ND	ND	ND	ND	ND	ND	2.0 J	0.033 J	6.9	394	ND
MW-7R	L	4/5/2021	7R	80	ND	23	8.2	1.1 J	ND	ND	ND	1.7	ND	ND	ND	2.3	0.020 J	6.7	371	ND
MW-7R	L	5/6/2021	7R	75	ND	29	10	ND	1.2 J	ND	ND	ND	ND	ND	ND	1.8	ND	6.9	336	4.4
MW-7R	L	6/7/2021	7R	88	ND	38	14	ND	1.7 J	ND	ND	ND	ND	ND	ND	2.2	ND	7	340	ND
MW-7R	L	7/7/2021	7R	61	ND	26	9.3	ND	1.2 J	ND	ND	ND	ND	ND	ND	1.1	ND	7.2	382	ND
MW-7R	L	8/19/2021	7R	70	ND	36	10	ND	1.4 J	ND	ND	ND	ND	ND	ND	0.88 J	ND	6.9	388	ND
MW-7R	L	9/1/2021	7R	61	ND	26	9.6	ND	ND	ND	ND	ND	ND	ND	ND	1.3 J	ND	6.9	393	ND
MW-7R	L	10/13/2021	7R	79	ND	35	13	ND	ND	ND	ND	ND	ND	ND	ND	1.9 J	ND	6.8	349	ND
MW-7R	L	11/10/2021	7R	57	ND	6.1	18	ND	ND	ND	ND	ND	ND	ND	ND	5.2	ND	6.8	880	ND
MW-7R	L	12/28/2021	7R	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	381	ND
MW-7R	L	1/19/2022	7R	89.5	ND	43.9	11.6	1.4	ND	NA	NA	ND	ND	ND	ND	1.4	ND	6.9	348	1.6 J
MW-7R	L	2/2/2022	7R	60.3	ND	41.2	9.9	1.3	ND	NA	NA	ND	ND	ND	ND	1.5	ND	6.7	354	2
MW-7R	L	3/9/2022	7R	61.2	ND	32.9	6.4	1.2	ND	NA	NA	ND	ND	ND	ND	ND	ND	7	370	ND
MW-7R	L	4/7/2022	7R	75.6	ND	39.9	10.1	1.5	ND	NA	NA	ND	ND	ND	ND	1.7	ND	6.6	375	ND
MW-7R	L	5/11/2022	7R	103	ND	48.8	15.3	ND	ND	NA	NA	ND	ND	ND	ND	1.9	ND	6.8	300	ND

Table 2.6: System Performance Sampling Results

Parameter			1.1.1- Trichloroetha ne	1.1.2- Trichloroetha ne	1.1- Dichloroethan e	1.1- Dichloroethyle ne	1.2- Dichloroethen e	1.2- Dichloroethen e Total	1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chloroform	Methylene Chloride	Toluene	Trichloroethyl ene	Iron	pH	Total Dissolved Solids	Total Suspended Solids
Units			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	SU	mg/L	mg/L
NYS Class GA			5'	1	5'	5'	0.6	-	-	50	1	5	7	5'	5'	5'	300	-	-	-
ERT-1	L	4/29/2019 (Mav)	ERT-1	290	0.48 J	31	63	0.73 J	1.2 J	ND	ND	ND	0.48 J	ND	ND	21	ND	7.7	457	ND
ERT-1	L	6/5/2019	ERT-1	77	ND	10	23	ND	ND	ND	ND	ND	ND	ND	ND	6.6	ND	7.3	418	ND
ERT-1	L	7/1/2019	ERT-1	69	ND	8.7	20	ND	ND	ND	ND	ND	ND	ND	ND	6.1	ND	7.5	349	ND
ERT-1	L	10/3/2019	ERT-1	41	ND	7	14	ND	ND	ND	ND	ND	ND	ND	ND	4.4 J	ND	7.2	351	ND
ERT-1	L	11/13/2019	ERT-1	58	ND	8.2	19	ND	ND	ND	ND	ND	ND	ND	ND	5.3	ND	7	388	5.2
ERT-1	L	12/16/2019	ERT-1	64	ND	8.7	21	ND	ND	ND	ND	ND	ND	ND	ND	5.7	ND	6.8	36	ND
ERT-1	L	1/10/2020	ERT-1	68	ND	9.3	21	ND	ND	ND	ND	ND	ND	ND	ND	6.6	ND	7	384	ND
ERT-1	L	2/5/2020	ERT-1	79	ND	9.4	22	ND	ND	ND	ND	ND	ND	ND	ND	6.7	ND	7	361	ND
ERT-1	L	3/13/2020	ERT-1	84	ND	9.7	24	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND	7.1	438	ND
ERT-1	L	4/13/2020	ERT-1	230	ND	33	56	ND	ND	ND	ND	ND	ND	ND	ND	16	ND	7	377	ND
ERT-1	L	4/27/2020	ERT-1	200	ND	22 J	47	ND	ND	ND	ND	ND	ND	ND	ND	15 J	ND	6.8	374	ND
ERT-1	L	5/7/2020	ERT-1	84	ND	10	22	ND	ND	ND	ND	ND	ND	ND	ND	6.6 J	ND	7.3	313	ND
ERT-1	L	6/3/2020	ERT-1	88	ND	18	20	ND	ND	ND	ND	ND	ND	ND	ND	6.1 J	ND	7.2	467	ND
ERT-1	L	7/8/2020	ERT-1	76	ND	25	14	ND	ND	ND	ND	ND	ND	ND	ND	4.6 J	ND	7	624	ND
ERT-1	L	8/10/2020	ERT-1	76	ND	31	10	ND	1.1 J	ND	ND	ND	ND	ND	ND	2.9	ND	7.3	429	ND
ERT-1	L	9/3/2020	ERT-1	65	ND	21	13	ND	1.1 J	ND	ND	ND	ND	ND	ND	3.1	ND	7.0	442	ND
ERT-1	L	10/15/2020	ERT-1	20	ND	4.9 J	8.0	ND	ND	ND	ND	ND	1.3 J	ND	ND	2.8 J	ND	6.9	254	ND
ERT-1	L	11/12/2020	ERT-1	29	ND	6.1	11	ND	0.45 J	ND	ND	ND	ND	ND	ND	3.5	ND	7	412	ND
ERT-1	L	12/1/2020	ERT-1	37	ND	7	13	ND	ND	ND	ND	ND	ND	ND	ND	3.7	ND	8.1	383	ND
ERT-1	L	1/14/2021	ERT-1	57	ND	7.3	19	ND	ND	ND	ND	ND	ND	ND	ND	5.5	ND	7.1	578	ND
ERT-1	L	2/25/2021	ERT-1	87	ND	8.4	19	ND	ND	ND	ND	ND	ND	ND	ND	5.3	ND	7.2	432	ND
ERT-1	L	3/23/2021	ERT-1	82	ND	9.8	29	ND	ND	ND	ND	ND	ND	ND	ND	6.6	ND	6.9	412	ND
ERT-1	L	4/5/2021	ERT-1	100	0.22 J	9.6	28	ND	ND	ND	1.5	ND	ND	ND	ND	7.9	0.024 J	6.8	323	ND
ERT-1	L	5/6/2021	ERT-1	79	ND	9.9	23	ND	ND	ND	ND	ND	ND	ND	ND	5.9	ND	7	370	ND
ERT-1	L	6/7/2021	ERT-1	76	ND	11	27	ND	ND	ND	ND	ND	ND	ND	ND	7.4	ND	7	349	ND
ERT-1	L	7/7/2021	ERT-1	72	0.28 J	15	20	0.58 J	ND	ND	ND	ND	ND	ND	ND	5.5	0.038 J	7.1	361	ND
ERT-1	L	8/19/2021	ERT-1	42	ND	11	12	ND	ND	ND	ND	ND	ND	ND	ND	3.4	ND	6.9	373	ND
ERT-1	L	9/1/2021	ERT-1	52	ND	7.9	18	ND	ND	ND	ND	ND	ND	ND	ND	5	0.023 J	7	356	ND
ERT-1	L	10/13/2021	ERT-1	63	ND	9.7	20	ND	ND	ND	ND	ND	ND	ND	ND	5.7	ND	6.8	359	ND
ERT-1	L	11/10/2021	ERT-1	65	ND	9.3	22	ND	ND	ND	ND	ND	ND	ND	ND	6.1	ND	6.9	600	ND
ERT-1	L	12/28/2021	ERT-1	133	ND	25.3	40.2	ND	NA	NA	NA	ND	ND	ND	ND	10.6	ND	6.9	435	ND
ERT-1	L	1/19/2022	ERT-1	73.8	ND	10.9	24.9	ND	NA	NA	NA	ND	ND	ND	ND	6.2	ND	6.9	433	ND
ERT-1	L	2/2/2022	ERT-1	45.7	ND	10.3	17.8	ND	NA	NA	NA	ND	ND	ND	ND	6	ND	6.8	415	ND
ERT-1	L	3/9/2022	ERT-1	298	ND	37.6	36.8	ND	NA	NA	NA	ND	ND	ND	ND	17.2	ND	7	446	3.0 J
ERT-1	L	4/7/2022	ERT-1	81.5	ND	11	25.2	ND	NA	NA	NA	ND	ND	ND	ND	7.6	0.026 J	6.5	494	1.2 J
ERT-2	L	5/11/2022	ERT-1	95.8	ND	11.2	33.4	ND	ND	NA	NA	ND	ND	ND	ND	7.9	ND	7	280	ND

Table 2.6: System Performance Sampling Results

Parameter	1.1.1- Trichloroethane		1.1.2- Trichloroethane		1.1- Dichloroethane		1.1- Dichloroethane		1.2- Dichloroethane		1.2- Dichloroethane		1,4-Dioxane	Acetone	Benzene	Carbon Tetrachloride	Chloroform	Methylene Chloride	Toluene	Trichloroethylene	Iron	pH	Total Dissolved Solids	Total Suspended Solids
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L												

Table 2.6: System Performance Sampling Results

Parameter	1.1.1- Trichloroethane		1.1.2- Dichloroethane		1.1- Dichloroethane		1.1- Dichloroethane		1.2- Dichloroethane		1.2- Dichloroethane		1,4-Dioxane		Acetone	Benzene	Carbon Tetrachloride	Chloroform	Methylene Chloride	Toluene	Trichloroethylene	Iron	pH	Total Dissolved Solids	Total Suspended Solids
	Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NYS Class GA		5	1	5	5	0.6	-	-	50	1	5	7	5	5	300	-	-	-	-	-	-	-	-	-	
Air Stripper Effluent	L	4/29/2019 (Mav)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.5	416	ND	
Air Stripper Effluent	L	6/5/2019	0.47 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	407	ND	
Air Stripper Effluent	L	7/1/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4	417	ND	
Air Stripper Effluent	L	10/3/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.2	357	40.4	
Air Stripper Effluent	L	11/3/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	387	26.8	
Air Stripper Effluent	L	12/16/2019	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	372	4	
Air Stripper Effluent	L	1/10/2020	0.44 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	418	ND	
Air Stripper Effluent	L	2/5/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.2	443	ND	
Air Stripper Effluent	L	3/13/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	ND	ND	
Air Stripper Effluent	L	4/13/2020	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	361	ND	
Air Stripper Effluent	L	4/27/2020	0.64 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	370	ND	
Air Stripper Effluent	L	5/7/2020	0.45 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	325	8	
Air Stripper Effluent	L	6/3/2020	0.51 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	465	ND	
Air Stripper Effluent	L	7/8/2020	0.88 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	322	ND	
Air Stripper Effluent	L	8/10/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	433	ND	
Air Stripper Effluent	L	9/3/2020	0.33 J	ND	0.36 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	428	ND	
Air Stripper Effluent	L	10/15/2020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	221	ND	
Air Stripper Effluent	L	11/12/2020	0.39 J	ND	0.52 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	417	ND	
Air Stripper Effluent	L	12/1/2020	0.31 J	ND	0.27 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.5	378	ND	
Air Stripper Effluent	L	1/14/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	459	ND	
Air Stripper Effluent	L	2/25/2021	0.41 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	438	ND	
Air Stripper Effluent	L	3/23/2021	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	400	ND	
Air Stripper Effluent	L	4/5/2021	0.59 J	ND	0.56 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	494	ND	
Air Stripper Effluent	L	5/6/2021	0.68 J	ND	0.53 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	339	ND	
Air Stripper Effluent	L	6/7/2021	0.63 J	ND	0.59 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	ND	0.36	7.9	410	4.4	
Air Stripper Effluent	L	7/7/2021	0.82 J	ND	0.54 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.9	358	ND	
Air Stripper Effluent	L	8/19/2021	0.85 J	ND	0.73 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	399	ND	
Air Stripper Effluent	L	9/1/2021	0.93 J	ND	0.71 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	346	ND	
Air Stripper Effluent	L	10/13/2021	1.2 J	ND	0.89 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	310	ND	
Air Stripper Effluent	L	11/10/2021	1.7 J	ND	1.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	608	ND	
Air Stripper Effluent	L	12/28/2021	1.6	ND	1.4	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.2	414	ND	
Air Stripper Effluent	L	1/19/2022	ND	ND	1.6	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.1	400	ND	
Air Stripper Effluent	L	2/2/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.5	464	ND	
Air Stripper Effluent	L	3/9/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.3	421	ND	
Air Stripper Effluent	L	4/7/2022	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.2	434	ND	
Air Stripper Effluent	L	5/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	230	ND	

Notes:  
 Reported timeframe May 2019 through May 2022

NYS Class GA = New York State Class GA Groundwater Standards

- = The principal organic contaminant standard for groundwater of 5 ug/L applies to this substance.
- = No Criteria
- FD = Field Duplicate
- FS = Field Sample
- J = Estimated Value
- J- = Estimated Value, Biased Low
- L = Liquid
- ND = Not Detected
- NA = Not Analyzed
- ug/L = Micrograms per liter
- Bold** = Exceeds standard or guidance value

Table 2.7 - Long-term Monitoring Groundwater Elevations

Well ID/ Sampling Location	X Coordinate	Y Coordinate	Total Well Depth (ft BGS)	Measure Point Elevation * (ft AMSL)	LTM				January 2022 Field Comments
					July 2019		January 2022		
					Depth to Water (ft bTOC)	Water Elevation (ft TOC)	Depth to Water (ft bTOC)	Water Elevation (ft TOC)	
ERT-1	571897.25	4629866	195	303.94	56.49	247.5	51.63	252.3	
ERT-2	571843.56	4629843	200	309.81	62.09	247.7	56.19	253.6	
ERT-3	571850.19	4629819	220	315.89	68.34	247.6	62.3	253.6	
ERT-4	571979.5	4629806.5	50	326.67	30.96	295.7	29.94	296.7	
MW-1B	571967.38	4629665	100	333.53	53.54	280.0	49.63	283.9	
MW-4	571971.06	4629799	21.5	329.21	9.36	319.9	4.80	324.4	
MW-5B	571981.81	4629825.5	36.2	325.3	31.8	293.5	27.69	297.6	
MW-5R	572003.06	4629852	125	313.63	66.11	247.5	59.08	254.6	
MW-6B	572042.38	4629780.5	100	323.95	75.91	248.0	65.61	258.3	
MW-7B	571794.25	4629797	100	313.93	65.79	248.1	63.75	250.2	
MW-7R	571790.75	4629797	180	314.3	66.95	247.4	64.97	249.3	
MW-8B	572249.41	4630989.19	100	159.68	30.94	128.7	28.70	131.0	
MW-9B	572016.88	4630545	145	248.21	NM	NM	17.21	231.0	
MW-10B	572734.6	4630604	100	225.64	NM	NM	25.09	200.6	
MW-11B	572126.19	4630011	181	281.72	34.71	247.0	26.30	255.4	
MW-11C	572125	4630007	220	284.58	36.68	247.9	27.89	256.7	
MW-12B	572234.19	4630222.41	200	258.2	12.58	245.6	7.99	250.2	
MW-13B	571312.94	4630103	200	221.93	NM	NM	NM	NM	Covered by Snowplow Pile
MW-14B	572600.32	4630930.34	155	156.67	6.26	150.4	5.12	151.6	
MW-15B	571701.56	4630172.5	150	244.89	6.98	237.9	10.56	234.3	
MW-16	572083.65	4630265.75	93	274.11	30.89	243.2	22.06	252.1	
MW-17-1			57	241.92	9.08	232.8	NM	NM	Frozen
MW-17-2	572545.72	4630421.63	110	241.92	13.15	228.8	NM	NM	Frozen
MW-17-3			129	241.92	13.15	228.8	NM	NM	Frozen
MW-18-13			101	204.45	NM	NM	NM	NM	Artesian - Frozen
MW-18-23	571579.98	4630508.22	128	204.45	NM	NM	NM	NM	Artesian - Frozen
MW-18-33			145	204.45	NM	NM	NM	NM	Artesian - Frozen
MW-19-13			49	129.88	NM	NM	NM	NM	Skinny Dipper would not fit in water level port.
MW-19-23	572596.93	4631100.5	95	129.88	NM	NM	NM	NM	Skinny Dipper would not fit in water level port.
MW-19-33			195	129.88	NM	NM	NM	NM	Skinny Dipper would not fit in water level port.
MW-20-1			77	202.84	58.29	144.6	NM	NM	Skinny Dipper would not fit in water level port.
MW-20-2	571966.96	4631057.64	111.5	202.84	55.46	147.4	NM	NM	Skinny Dipper would not fit in water level port.
MW-20-3			149	202.84	74.92	127.9	NM	NM	Skinny Dipper would not fit in water level port.
MW-21-13			48	233.59	NM	NM	NM	NM	Frozen
MW-21-23			69.5	233.59	NM	NM	NM	NM	Frozen
MW-21-33	572596	4630042	78	233.59	NM	NM	NM	NM	Frozen
MW-21-43			124	233.59	NM	NM	NM	NM	Frozen
MW-21-53			145	233.59	NM	NM	NM	NM	Frozen
MW-21-63			163	233.59	NM	NM	NM	NM	Frozen

**Notes:**

- \* Top of Well Casing
- LTM: Long-Term Monitoring
- BGS: below ground surface
- AGS: above ground surface
- AMSL: Above mean sea level
- bTOC: Below top of casing
- NM: Not Measured



Table 2.8 - Groundwater Monitoring Results Above New York State Standards - January 2022

Parameter			1,4-Dioxane	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Chloroethane	Chloroform	cis-1,2-Dichloroethene	Trichloroethene
NYS Class GA Standard			NS	5	1	5	5	0.6	5	7	5	5
Location	Sample Date	Sample ID	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
ERT-1	1/19/2022	356023 - ERT1	<b>3</b>	<b>47.7</b>	1 U	<b>12.4</b>	<b>26.3</b>	1 U	1 U	1 U	1 U	<b>6.1</b>
ERT-4	1/20/2022	356023 - ERT4	<b>1.9</b>	<b>1530</b>	<b>2.2</b>	<b>46.8 J+</b>	<b>173</b>	<b>3.2 J+</b>	<b>1.1</b>	<b>1.3 J+</b>	<b>4 J+</b>	<b>120</b>
MW-1B	1/20/2022	356023 - MW1B	<b>0.3 U</b>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-4	1/20/2022	356023 - MW4	<b>1.4</b>	<b>653</b>	1 U	<b>28.8</b>	<b>144</b>	<b>1.6</b>	1 U	1 U	<b>8.3</b>	<b>253</b>
MW-5B	1/20/2022	356023 - MW5B	<b>2</b>	<b>608</b>	1 U	<b>15.8</b>	<b>111</b>	<b>1.5</b>	1 U	1 U	<b>1.1</b>	<b>40.5</b>
MW-5R	1/19/2022	356023 - MW5R	<b>1.8</b>	<b>55.6</b>	1 U	<b>6.9</b>	<b>27.9</b>	1 U	1 U	1 U	1 U	<b>6.4</b>
MW-6B	1/20/2022	356023 - MW6B	<b>0.48</b>	<b>4</b>	1 U	1 U	<b>1.8</b>	1 U	1 U	1 U	1 U	1 U
MW-7R	1/19/2022	356023 - MW7R	<b>1.5</b>	<b>57.7</b>	1 U	<b>50</b>	<b>13.2</b>	1 U	1 U	1 U	<b>2</b>	<b>1.6</b>
MW-8B	1/18/2022	356023 - MW8B	<b>0.53</b>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-9B	1/19/2022	356023 - MW9B	<b>4.4</b>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-10B	1/19/2022	356023 - DUP-01	<b>0.3 U</b>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-10B	1/19/2022	356023 - MW10B	<b>0.3 U</b>	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
MW-11B	1/20/2022	356023 - MW11B	<b>1.2</b>	1 U	1 U	<b>3.5 U</b>	<b>7</b>	1 U	1 U	1 U	1 U	<b>1.1</b>
MW-12B	1/20/2022	356023 - MW12B	<b>2.3</b>	<b>2.5</b>	<b>1</b>	<b>8.9</b>	<b>16.9</b>	1 U	1 U	1 U	1 U	<b>2.9</b>
MW-14B	1/18/2022	356023 - MW14B	<b>1.5</b>	1 U	1 U	<b>1.8</b>	1 U	1 U	1 U	1 U	1 U	1 U
MW-15B	1/19/2022	356023 - MW15B	<b>2.1</b>	<b>10.2</b>	1 U	<b>9.1</b>	<b>19</b>	1 U	1 U	1 U	1 U	<b>1.4</b>
MW-16	1/19/2022	356023 - MW16	<b>0.76</b>	<b>3.2</b>	1 U	<b>1.3</b>	<b>6.6</b>	1 U	1 U	1 U	1 U	1 U

**Notes:**  
 Dioxane by Method 8270E  
 Volatile Organic Compounds by Method 8260C  
**Bold** = Exceeds standard or guidance value  
 NYS Class GA = New York State Class GA Groundwater Standards  
 ug/L = micrograms per liter  
 U = Not Detected  
 J = Estimated Value

**ATTACHMENT A1**

NYSDEC Engineering Controls – Standby Consultant/Contractor Certification Form



**Enclosure 1**  
**Engineering Controls - Standby Consultant/Contractor Certification Form**



	Site Details	Box 1
<b>Site No.</b>	<b>356023</b>	
<b>Site Name Mohonk Road Industrial Plant</b>		
Site Address: Mohonk Road (High Falls) Zip Code: 12440		
City/Town: Marbletown and Rosendale		
County: Ulster		
Site Acreage: 14.5		
Reporting Period: May 02, 2019 to May 02, 2022		
		YES NO
1. Is the information above correct?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If NO, include handwritten above or on a separate sheet. <b>-Corrections made above.</b>		
2. To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b>		
5. To your knowledge is the site currently undergoing development?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
		<b>Box 2</b>
		YES NO
6. Is the current site use consistent with the use(s) listed below?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.</b>		
_____ Signature of Standby Consultant/Contractor		_____ Date

**Description of Institutional Controls**

<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
70.3-3-37.1	Craig's Closet, LLC	Ground Water Use Restriction
		Monitoring Plan O&M Plan

An environmental easement is in place that restricts the use of groundwater beneath the site and requires the site owner to provide access to the near-field pump and treat system.

An on site bedrock pump and treat system was installed in 2001 for the near field plume and is operational.

A groundwater monitoring program is in place to monitor natural attenuation in the far-field plume.

A soil vapor extraction system and vapor mitigation system in the on-site building are installed and operating.

A ordinance within the High Falls Water District prohibits residents from establishing or maintaining a source of drinking and domestic water separate from the public water supply.

**Description of Engineering Controls**

<u>Parcel</u>	<u>Engineering Control</u>
70.3-3-37.1	Groundwater Treatment System Vapor Mitigation Alternate Water Supply

Engineering Controls in place include a groundwater extraction and treatment system; groundwater monitoring well network and a subslab depressurization system (for control of soil vapors)

**Periodic Review Report (PRR) Certification Statements**

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, including data and material prepared by previous contractors for the current certifying period, if any;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES NO

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.**

\_\_\_\_\_  
Signature of Standby Consultant/Contractor

\_\_\_\_\_  
Date

**IC/EC CERTIFICATIONS**

**Qualified Environmental Professional Signature**

I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I, Mark Stelmack, P.E. at MACTEC Engineering and Geology, P.C.

511 Congress Street, Suite 200, Portland, ME 04101,

Am certifying as a Qualified Environmental Professional.



January 31, 2023

## Enclosure 2

### Certification Instructions

#### I. Verification of Site Details (Box 1 and Box 2):

Answer the "YES/NO" questions in the Verification of Site Details Section. The Engineering Standby Contractor may include handwritten changes and/or other supporting documentation, as necessary.

#### II. Certification of Institutional Controls/ Engineering Controls (Boxes 3, 4, and 5)

1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Engineering Standby Contractor should petition the Department separately to request approval to remove the control.
2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.
3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered. The DEC PM should be contacted to begin development of a plan of proposed corrective measures and an associated schedule for completing the corrective measures, including detailed cost information in a proposed budget. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule and budget, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a revised Periodic Review Report (with a signed IC/EC Certification) must be submitted which covers both the period for which a certification initially could not be provided and the ensuing time period until the correction measure was completed. This revised PRR should be submitted within 45 days after completion of the corrective measures to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

#### III. IC/EC Certification by Signature (Box 6):

Where the site has Institutional and Engineering Controls, the certification statement in Box 6 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

If you certified "YES" for each Institutional and Engineering Control, please complete and sign the IC/EC Certification page.

#### IV. Certification Form Modifications

Changes to the Certification Form shall be discussed with the Project Manager prior to submission. Any approved changes must be made on the Certification Form provided by Site Control and supporting documentation or reasoning shall be attached.

**Enclosure 3**  
**Periodic Review Report (PRR) General Guidance**

- I. Executive Summary: (1/2-page or less)
  - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
  - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
    1. progress made during the reporting period toward meeting the remedial objectives for the site
    2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
  - C. Compliance
    1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
    2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
  - D. Recommendations
    1. recommend whether any changes to the SMP are needed
    2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
    3. recommend whether the requirements for discontinuing site management have been met.
  
- II. Site Overview (one page or less)
  - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
  - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
  
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness  
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
  
- IV. IC/EC Plan Compliance Report (if applicable)
  - A. IC/EC Requirements and Compliance
    1. Describe each control, its objective, and how performance of the control is evaluated.
    2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
    3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
    4. Conclusions and recommendations for changes.
  - B. IC/EC Certification  
The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
  
- V. Monitoring Plan Compliance Report (if applicable)
  - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
  - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
  - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
  - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
  - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
  
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
  - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities,



frequencies, recordkeeping, etc.

- B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
- C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluate the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.
- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

#### VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
  - 1. whether all requirements of each plan were met during the reporting period
  - 2. any requirements not met
  - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
  - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
  - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

#### VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

**ATTACHMENT A-2**

Historical Groundwater Results – Site VOCs

**ANALYTICAL REPORT**

Job Number: 480-156213-1

Job Description: Mohonk Rd. #356023 Groundwaters

Contract Number: C100700

For:

New York State D.E.C.

625 Broadway

Division of Environmental Remediation

Albany, NY 12233-7014

Attention: Charles Gregory



Approved for release.  
Joe V Giacomazza  
Project Management Assistant II  
8/13/2019 9:44 AM

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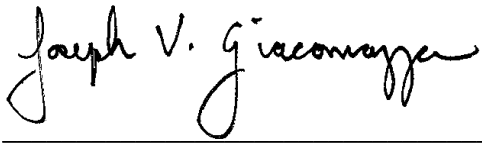
Designee for  
Judy L Stone, Senior Project Manager  
10 Hazelwood Drive, Amherst, NY, 14228-2298  
(484)685-0868  
judy.stone@testamericainc.com  
08/13/2019

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Job Number: 480-156213-1

Job Description: Mohonk Rd. #356023 Groundwaters

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



---

Approved for release.  
Joe V Giacomazza  
Project Management Assistant II  
8/13/2019 9:44 AM

Designee for  
Judy L Stone

# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	6
Report Narrative . . . . .	6
Definitions . . . . .	8
Sample Summary . . . . .	9
Detection Summary . . . . .	10
Method Summary . . . . .	15
Client Sample Results . . . . .	16
Surrogate Summary . . . . .	59
Isotope Dilution Summary . . . . .	60
QC Sample Results . . . . .	63
QC Association . . . . .	74
Chronicle . . . . .	77
Certification Summary . . . . .	82
Organic Sample Data . . . . .	83
GC/MS VOA . . . . .	83
Method 8260C . . . . .	83
Method 8260C QC Summary . . . . .	84
Method 8260C Sample Data . . . . .	96
Standards Data . . . . .	263
Method 8260C ICAL Data . . . . .	263
Method 8260C CCAL Data . . . . .	348
Raw QC Data . . . . .	357
Method 8260C Tune Data . . . . .	357
Method 8260C Blank Data . . . . .	363
Method 8260C LCS/LCSD Data . . . . .	372

# Table of Contents

Method 8260C MS/MSD Data .....	379
Method 8260C Run Logs .....	389
Method 8260C Prep Data .....	391
<b>GC/MS Semi VOA .....</b>	<b>394</b>
Method 8270D SIM-ID .....	394
Method 8270D SIM-ID QC Summary .....	395
Method 8270D SIM-ID Sample Data .....	408
Standards Data .....	508
Method 8270D SIM-ID ICAL Data .....	508
Method 8270D SIM-ID CCAL Data .....	527
Raw QC Data .....	536
Method 8270D SIM-ID Tune Data .....	536
Method 8270D SIM-ID Blank Data .....	560
Method 8270D SIM-ID LCS/LCSD Data .....	565
Method 8270D SIM-ID MS/MSD Data .....	568
Method 8270D SIM-ID Run Logs .....	574
Method 8270D SIM-ID Prep Data .....	578
<b>LCMS .....</b>	<b>580</b>
PFC_IDA .....	580
PFC_IDA QC Summary .....	581
PFC_IDA Sample Data .....	593
Standards Data .....	1011
PFC_IDA ICAL Data .....	1011
PFC_IDA CCAL Data .....	1085
Raw QC Data .....	1171
PFC_IDA Blank Data .....	1171

# Table of Contents

PFC_IDA LCS/LCSD Data .....	1209
PFC_IDA MS/MSD Data .....	1225
PFC_IDA Run Logs .....	1254
PFC_IDA Prep Data .....	1257
Shipping and Receiving Documents .....	1260
Client Chain of Custody .....	1261
Sample Receipt Checklist .....	1263

**Job Narrative  
480-156213-1**

**Receipt**

The samples were received on 7/13/2019 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 5 coolers at receipt time were 1.7° C, 2.0° C, 2.5° C, 2.9° C and 3.1° C.

**GC/MS VOA**

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 356023-MW5B (480-156213-11), 356023-ERT4 (480-156213-12), 356023-MW4 (480-156213-13) and 356023-MW5R (480-156213-18). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-482537 recovered above the upper control limit for Dibromochloromethane and 2-Butanone (MEK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 356023-MW8B (480-156213-1), 356023-MW8BD (480-156213-2), 356023-MW16 (480-156213-3), 356023-MW14B 150 (480-156213-4), 356023-MW12B 190 (480-156213-5), 356023-MW11B (480-156213-6), 356023-MW11C (480-156213-7), 356023-MW1801 (480-156213-8), 356023-MW1802 (480-156213-9), 356023-MW1803 (480-156213-10), 356023-MW5B (480-156213-11), 356023-ERT4 (480-156213-12), 356023-MW4 (480-156213-13), 356023-MW6B (480-156213-14), 356023-MW15B (480-156213-15), 356023-EB1 (480-156213-16), 356023-MW1B (480-156213-17), 356023-MW5R (480-156213-18), 356023-MW7R (480-156213-19) and 356023-TB1 (480-156213-20).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-482537 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: 356023-MW8B (480-156213-1), 356023-MW8BD (480-156213-2), 356023-MW16 (480-156213-3), 356023-MW14B 150 (480-156213-4), 356023-MW12B 190 (480-156213-5), 356023-MW11B (480-156213-6), 356023-MW11C (480-156213-7), 356023-MW1801 (480-156213-8), 356023-MW1802 (480-156213-9), 356023-MW1803 (480-156213-10), 356023-MW5B (480-156213-11), 356023-ERT4 (480-156213-12), 356023-MW4 (480-156213-13), 356023-MW6B (480-156213-14), 356023-MW15B (480-156213-15), 356023-EB1 (480-156213-16), 356023-MW1B (480-156213-17), 356023-MW5R (480-156213-18), 356023-MW7R (480-156213-19) and 356023-TB1 (480-156213-20).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-482537 recovered outside control limits for the following analytes: Dibromochloromethane and Bromoform. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: 356023-MW8B (480-156213-1), 356023-MW8BD (480-156213-2), 356023-MW16 (480-156213-3), 356023-MW14B 150 (480-156213-4), 356023-MW12B 190 (480-156213-5), 356023-MW11B (480-156213-6), 356023-MW11C (480-156213-7), 356023-MW1801 (480-156213-8), 356023-MW1802 (480-156213-9), 356023-MW1803 (480-156213-10), 356023-MW5B (480-156213-11), 356023-ERT4 (480-156213-12), 356023-MW4 (480-156213-13), 356023-MW6B (480-156213-14), 356023-MW15B (480-156213-15), 356023-EB1 (480-156213-16), 356023-MW1B (480-156213-17), 356023-MW5R (480-156213-18), 356023-MW7R (480-156213-19) and 356023-TB1 (480-156213-20).

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

**GC/MS Semi VOA**

Method(s) 8270D SIM ID: The 1,4-Dioxane result reported for samples 356023-MW8B (480-156213-1), 356023-MW8BD (480-156213-2), 356023-MW6B (480-156213-14[MS]) and 356023-MW6B (480-156213-14[MSD]) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method(s) 8270D SIM ID: The 1,4-Dioxane result reported for samples 356023-MW11C (480-156213-7), 356023-MW1802 (480-156213-9), 356023-MW1803 (480-156213-10) and 356023-MW7R (480-156213-19) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method(s) 8270D SIM ID: The following samples were diluted to bring the concentration of target analytes within the calibration range: 356023-MW16 (480-156213-3), 356023-MW14B 150 (480-156213-4), 356023-MW12B 190 (480-156213-5), 356023-MW11B (480-156213-6), 356023-MW5B (480-156213-11), 356023-ERT4 (480-156213-12), 356023-MW4 (480-156213-13), 356023-MW15B (480-156213-15) and 356023-MW5R (480-156213-18). Elevated reporting limits (RLs) are provided.

Method(s) 8270D SIM ID: The 1,4-Dioxane result reported for samples 356023-ERT4 (480-156213-12), 356023-MW4 (480-156213-13) and 356023-MW5R (480-156213-18) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

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

**LCMS**



Method(s) 537 (modified): The continuing calibration verification (CCV) associated with batch 200-145761 recovered outside acceptance criteria, low biased, for 8:2 FTS. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 537 (modified): The Ion Ratio associated with PFOS fails our in-house defined limits for the following sample 356023-MW4 (480-156213-13), however the result is being reported because the peaks observed for both mass transitions are within the expected retention time windows for the branched chain isomers in our calibration mix. Since many of these isomers are at very low levels in our mixed calibration source (many are less than 5% of the solution), it's difficult to project how the different isomers responses differ at higher levels, so we don't feel comfortable rejecting the detect based upon the ratio.

Method(s) 537 (modified): The laboratory control sample (LCS) associated with preparation batch 200-145382 and analytical batch 200-145761 was outside acceptance criteria for N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA). Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

#### **Organic Prep**

Method(s) 3510C: The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the preparation of the following samples within holding time: 356023-MW8B (480-156213-1), 356023-MW8BD (480-156213-2), 356023-MW16 (480-156213-3), 356023-MW14B 150 (480-156213-4) and 356023-MW12B 190 (480-156213-5).

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

# Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time

### LCMS

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Sample Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-156213-1	356023-MW8B	Water	07/09/19 13:20	07/13/19 09:00	
480-156213-2	356023-MW8BD	Water	07/09/19 13:20	07/13/19 09:00	
480-156213-3	356023-MW16	Water	07/09/19 17:10	07/13/19 09:00	
480-156213-4	356023-MW14B 150	Water	07/09/19 11:50	07/13/19 09:00	
480-156213-5	356023-MW12B 190	Water	07/09/19 17:27	07/13/19 09:00	
480-156213-6	356023-MW11B	Water	07/10/19 11:37	07/13/19 09:00	
480-156213-7	356023-MW11C	Water	07/10/19 15:23	07/13/19 09:00	
480-156213-8	356023-MW1801	Water	07/11/19 11:10	07/13/19 09:00	
480-156213-9	356023-MW1802	Water	07/11/19 11:20	07/13/19 09:00	
480-156213-10	356023-MW1803	Water	07/11/19 11:30	07/13/19 09:00	
480-156213-11	356023-MW5B	Water	07/11/19 13:10	07/13/19 09:00	
480-156213-12	356023-ERT4	Water	07/11/19 11:20	07/13/19 09:00	
480-156213-13	356023-MW4	Water	07/11/19 14:47	07/13/19 09:00	
480-156213-14	356023-MW6B	Water	07/11/19 13:15	07/13/19 09:00	
480-156213-15	356023-MW15B	Water	07/12/19 09:30	07/13/19 09:00	
480-156213-16	356023-EB1	Water	07/12/19 09:45	07/13/19 09:00	
480-156213-17	356023-MW1B	Water	07/12/19 11:15	07/13/19 09:00	
480-156213-18	356023-MW5R	Water	07/12/19 11:10	07/13/19 09:00	
480-156213-19	356023-MW7R	Water	07/12/19 11:30	07/13/19 09:00	
480-156213-20	356023-TB1	Water	07/09/19 12:00	07/13/19 09:00	

# Detection Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Client Sample ID: 356023-MW8B

## Lab Sample ID: 480-156213-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.4	H E	0.20	0.10	ug/L	1	1	8270D SIM ID	Total/NA
Perfluorooctanoic acid (PFOA)	0.56	J	1.7	0.54	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.53	J	1.7	0.52	ng/L	1	1	537 (modified)	Total/NA

## Client Sample ID: 356023-MW8BD

## Lab Sample ID: 480-156213-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.4	H E	0.20	0.10	ug/L	1	1	8270D SIM ID	Total/NA
Perfluorooctanoic acid (PFOA)	0.65	J	1.7	0.54	ng/L	1	1	537 (modified)	Total/NA

## Client Sample ID: 356023-MW16

## Lab Sample ID: 480-156213-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	13		1.0	0.82	ug/L	1	1	8260C	Total/NA
1,1-Dichloroethane	2.2		1.0	0.38	ug/L	1	1	8260C	Total/NA
1,1-Dichloroethene	10		1.0	0.29	ug/L	1	1	8260C	Total/NA
Trichloroethene	1.3		1.0	0.46	ug/L	1	1	8260C	Total/NA
1,4-Dioxane	4.2	H	1.0	0.50	ug/L	5	5	8270D SIM ID	Total/NA
Perfluorooctanoic acid (PFOA)	0.52	J	1.6	0.50	ng/L	1	1	537 (modified)	Total/NA

## Client Sample ID: 356023-MW14B 150

## Lab Sample ID: 480-156213-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.0		1.0	0.38	ug/L	1	1	8260C	Total/NA
1,1-Dichloroethene	0.66	J	1.0	0.29	ug/L	1	1	8260C	Total/NA
1,4-Dioxane	3.4	H	1.0	0.50	ug/L	5	5	8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	3.0		1.6	0.81	ng/L	1	1	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.9		1.6	0.51	ng/L	1	1	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	3.1		1.6	0.61	ng/L	1	1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.6	0.73	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.4		1.6	0.51	ng/L	1	1	537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.92	J	1.6	0.22	ng/L	1	1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.8		1.6	0.39	ng/L	1	1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.6	0.64	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.5		1.6	0.49	ng/L	1	1	537 (modified)	Total/NA

## Client Sample ID: 356023-MW12B 190

## Lab Sample ID: 480-156213-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.3		1.0	0.82	ug/L	1	1	8260C	Total/NA
1,1-Dichloroethane	10		1.0	0.38	ug/L	1	1	8260C	Total/NA
1,1-Dichloroethene	15		1.0	0.29	ug/L	1	1	8260C	Total/NA
Trichloroethene	3.5		1.0	0.46	ug/L	1	1	8260C	Total/NA
1,4-Dioxane	9.2	H	2.0	1.0	ug/L	10	10	8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	1.7		1.7	0.83	ng/L	1	1	537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.7		1.7	0.52	ng/L	1	1	537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.7		1.7	0.63	ng/L	1	1	537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.84	J	1.7	0.76	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	3.1		1.7	0.52	ng/L	1	1	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.7	0.41	ng/L	1	1	537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.67	J	1.7	0.67	ng/L	1	1	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.8		1.7	0.51	ng/L	1	1	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Client Sample ID: 356023-MW11B

## Lab Sample ID: 480-156213-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.4		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	2.4		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.9		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	0.93	J	1.0	0.46	ug/L	1		8260C	Total/NA
1,4-Dioxane	3.1		1.0	0.50	ug/L	5		8270D SIM ID	Total/NA
Perfluorooctanoic acid (PFOA)	0.53	J	1.6	0.52	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 356023-MW11C

## Lab Sample ID: 480-156213-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.2		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.80	J	1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	3.2		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	0.64	J	1.0	0.46	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.8	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorooctanoic acid (PFOA)	0.56	J	1.6	0.51	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 356023-MW1801

## Lab Sample ID: 480-156213-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.0		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

## Client Sample ID: 356023-MW1802

## Lab Sample ID: 480-156213-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.4		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.46	J	1.0	0.29	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.3	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

## Client Sample ID: 356023-MW1803

## Lab Sample ID: 480-156213-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.4		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	0.43	J	1.0	0.29	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.4	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

## Client Sample ID: 356023-MW5B

## Lab Sample ID: 480-156213-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1800		40	33	ug/L	40		8260C	Total/NA
1,1-Dichloroethane	42		40	15	ug/L	40		8260C	Total/NA
1,1-Dichloroethene	200		40	12	ug/L	40		8260C	Total/NA
Methylene Chloride	22	J	40	18	ug/L	40		8260C	Total/NA
Trichloroethene	87		40	18	ug/L	40		8260C	Total/NA
1,4-Dioxane	10		2.0	1.0	ug/L	10		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	4.2		1.6	0.80	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	3.7		1.6	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.7		1.6	0.61	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	1.0	J	1.6	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.4		1.6	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.6	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.0		1.6	0.49	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Client Sample ID: 356023-ERT4

## Lab Sample ID: 480-156213-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3100		50	41	ug/L	50		8260C	Total/NA
1,1-Dichloroethane	78		50	19	ug/L	50		8260C	Total/NA
1,1-Dichloroethene	280		50	15	ug/L	50		8260C	Total/NA
Methylene Chloride	35	J	50	22	ug/L	50		8260C	Total/NA
Trichloroethene	140		50	23	ug/L	50		8260C	Total/NA
1,4-Dioxane	12	E	2.0	1.0	ug/L	10		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	7.4		1.6	0.82	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.8		1.6	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.7		1.6	0.62	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.5		1.6	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.8		1.6	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.0	J	1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.61	J	1.6	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.6	0.65	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	4.5		1.6	0.50	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 356023-MW4

## Lab Sample ID: 480-156213-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1100		20	16	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	23		20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene	130		20	5.8	ug/L	20		8260C	Total/NA
Methylene Chloride	14	J	20	8.8	ug/L	20		8260C	Total/NA
Trichloroethene	390		20	9.2	ug/L	20		8260C	Total/NA
1,4-Dioxane	6.4	E	1.0	0.50	ug/L	5		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	6.9		1.6	0.80	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	12		1.6	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.3		1.6	0.61	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.2		1.6	0.73	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	6.4		1.6	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	0.42	J	1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.7		1.6	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	0.72	J	1.6	0.64	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	2.1	I	1.6	0.49	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 356023-MW6B

## Lab Sample ID: 480-156213-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	8.2	F1	1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.8		1.0	0.29	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.76		0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	1.6	J	1.8	0.88	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.0		1.8	0.55	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	1.5	J	1.8	0.67	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.92	J	1.8	0.55	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 356023-MW15B

## Lab Sample ID: 480-156213-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	26		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	8.3		1.0	0.38	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Client Sample ID: 356023-MW15B (Continued)

## Lab Sample ID: 480-156213-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	19		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	1.2		1.0	0.46	ug/L	1		8260C	Total/NA
1,4-Dioxane	5.9		1.0	0.50	ug/L	5		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	1.4	J	1.8	0.88	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.89	J	1.8	0.56	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.72	J	1.8	0.43	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 356023-EB1

## Lab Sample ID: 480-156213-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10		10	3.0	ug/L	1		8260C	Total/NA
Methylene Chloride	0.60	J	1.0	0.44	ug/L	1		8260C	Total/NA

## Client Sample ID: 356023-MW1B

## Lab Sample ID: 480-156213-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.1	J	10	3.0	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	3.1		1.6	0.80	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.0	J	1.6	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.76	J	1.6	0.61	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.0		1.6	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.67	J	1.6	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.60	J	1.6	0.49	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 356023-MW5R

## Lab Sample ID: 480-156213-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	110		2.0	1.6	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	6.7		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	24		2.0	0.58	ug/L	2		8260C	Total/NA
Methylene Chloride	1.2	J	2.0	0.88	ug/L	2		8260C	Total/NA
Trichloroethene	7.6		2.0	0.92	ug/L	2		8260C	Total/NA
1,4-Dioxane	6.1	E	1.0	0.50	ug/L	5		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	1.2	J	1.7	0.84	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.89	J	1.7	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.65	J	1.7	0.64	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.2	J	1.7	0.53	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.42	J	1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.74	J	1.7	0.51	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: 356023-MW7R

## Lab Sample ID: 480-156213-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	41		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	14		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	5.7		1.0	0.29	ug/L	1		8260C	Total/NA
Trichloroethene	0.94	J	1.0	0.46	ug/L	1		8260C	Total/NA
1,4-Dioxane	2.3	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	1.4	J	1.6	0.81	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.77	J	1.6	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	1.5	J	1.6	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.72	J	1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.97	J	1.6	0.50	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-TB1**

**Lab Sample ID: 480-156213-20**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.1	J	10	3.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.



# Method Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

**Protocol References:**

EPA = US Environmental Protection Agency

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

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW8B**

**Lab Sample ID: 480-156213-1**

**Date Collected: 07/09/19 13:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/19 22:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 22:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 22:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 22:23	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/19 22:23	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/19 22:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 22:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 22:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 22:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/17/19 22:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/19 22:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/19 22:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/19 22:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/19 22:23	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/19 22:23	1
1,4-Dioxane	ND		40	9.3	ug/L			07/17/19 22:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/19 22:23	1
2-Hexanone	ND		5.0	1.2	ug/L			07/17/19 22:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/17/19 22:23	1
Acetone	ND		10	3.0	ug/L			07/17/19 22:23	1
Benzene	ND		1.0	0.41	ug/L			07/17/19 22:23	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/17/19 22:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/17/19 22:23	1
Bromoform	ND	*	1.0	0.26	ug/L			07/17/19 22:23	1
Bromomethane	ND		1.0	0.69	ug/L			07/17/19 22:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/17/19 22:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/19 22:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/19 22:23	1
Chloroethane	ND		1.0	0.32	ug/L			07/17/19 22:23	1
Chloroform	ND		1.0	0.34	ug/L			07/17/19 22:23	1
Chloromethane	ND		1.0	0.35	ug/L			07/17/19 22:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/19 22:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/17/19 22:23	1
Cyclohexane	ND		1.0	0.18	ug/L			07/17/19 22:23	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/17/19 22:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/19 22:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/19 22:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/19 22:23	1
Methyl acetate	ND		2.5	1.3	ug/L			07/17/19 22:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/19 22:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/17/19 22:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/19 22:23	1
Styrene	ND		1.0	0.73	ug/L			07/17/19 22:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 22:23	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 22:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 22:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 22:23	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/19 22:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 22:23	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW8B**

**Lab Sample ID: 480-156213-1**

**Date Collected: 07/09/19 13:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 22:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 22:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		07/17/19 22:23	1
4-Bromofluorobenzene (Surr)	107		73 - 120		07/17/19 22:23	1
Dibromofluoromethane (Surr)	104		75 - 123		07/17/19 22:23	1
Toluene-d8 (Surr)	97		80 - 120		07/17/19 22:23	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.4	H E	0.20	0.10	ug/L		07/17/19 15:17	07/18/19 21:43	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110	07/17/19 15:17	07/18/19 21:43	1

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7	0.86	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78	ng/L		07/23/19 10:21	08/02/19 04:13	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.56</b>	<b>J</b>	1.7	0.54	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.66	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.45	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.68	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.81	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77	ng/L		07/23/19 10:21	08/02/19 04:13	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>0.53</b>	<b>J</b>	1.7	0.52	ng/L		07/23/19 10:21	08/02/19 04:13	1
Perfluorooctanesulfonamide (FOSA)	ND		8.6	8.6	ng/L		07/23/19 10:21	08/02/19 04:13	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		07/23/19 10:21	08/02/19 04:13	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	17	1.3	ng/L		07/23/19 10:21	08/02/19 04:13	1
6:2 FTS	ND		17	3.9	ng/L		07/23/19 10:21	08/02/19 04:13	1
8:2 FTS	ND		17	2.5	ng/L		07/23/19 10:21	08/02/19 04:13	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	72		25 - 150	07/23/19 10:21	08/02/19 04:13	1
13C4 PFBA	92		25 - 150	07/23/19 10:21	08/02/19 04:13	1
13C5 PFPeA	92		25 - 150	07/23/19 10:21	08/02/19 04:13	1
13C2 PFHxA	93		50 - 150	07/23/19 10:21	08/02/19 04:13	1
13C4 PFHpA	93		50 - 150	07/23/19 10:21	08/02/19 04:13	1
13C4 PFOA	80		50 - 150	07/23/19 10:21	08/02/19 04:13	1
13C5 PFNA	89		50 - 150	07/23/19 10:21	08/02/19 04:13	1
13C2 PFDA	90		50 - 150	07/23/19 10:21	08/02/19 04:13	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW8B**

**Lab Sample ID: 480-156213-1**

**Date Collected: 07/09/19 13:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	88		50 - 150	07/23/19 10:21	08/02/19 04:13	1
13C2 PFDoA	81		50 - 150	07/23/19 10:21	08/02/19 04:13	1
13C2 PFTeDA	63		50 - 150	07/23/19 10:21	08/02/19 04:13	1
13C3 PFBS	87		50 - 150	07/23/19 10:21	08/02/19 04:13	1
18O2 PFHxS	88		50 - 150	07/23/19 10:21	08/02/19 04:13	1
13C4 PFOS	83		50 - 150	07/23/19 10:21	08/02/19 04:13	1
d3-NMeFOSAA	66		50 - 150	07/23/19 10:21	08/02/19 04:13	1
d5-NEtFOSAA	67		50 - 150	07/23/19 10:21	08/02/19 04:13	1
M2-6:2 FTS	89		25 - 150	07/23/19 10:21	08/02/19 04:13	1
M2-8:2 FTS	99		25 - 150	07/23/19 10:21	08/02/19 04:13	1

**Client Sample ID: 356023-MW8BD**

**Lab Sample ID: 480-156213-2**

**Date Collected: 07/09/19 13:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/19 22:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 22:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 22:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 22:47	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/19 22:47	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/19 22:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 22:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 22:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 22:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/17/19 22:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/19 22:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/19 22:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/19 22:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/19 22:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/19 22:47	1
1,4-Dioxane	ND		40	9.3	ug/L			07/17/19 22:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/19 22:47	1
2-Hexanone	ND		5.0	1.2	ug/L			07/17/19 22:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/17/19 22:47	1
Acetone	ND		10	3.0	ug/L			07/17/19 22:47	1
Benzene	ND		1.0	0.41	ug/L			07/17/19 22:47	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/17/19 22:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/17/19 22:47	1
Bromoform	ND	*	1.0	0.26	ug/L			07/17/19 22:47	1
Bromomethane	ND		1.0	0.69	ug/L			07/17/19 22:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/17/19 22:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/19 22:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/19 22:47	1
Chloroethane	ND		1.0	0.32	ug/L			07/17/19 22:47	1
Chloroform	ND		1.0	0.34	ug/L			07/17/19 22:47	1
Chloromethane	ND		1.0	0.35	ug/L			07/17/19 22:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/19 22:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/17/19 22:47	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW8BD**

**Lab Sample ID: 480-156213-2**

**Date Collected: 07/09/19 13:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			07/17/19 22:47	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/17/19 22:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/19 22:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/19 22:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/19 22:47	1
Methyl acetate	ND		2.5	1.3	ug/L			07/17/19 22:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/19 22:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/17/19 22:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/19 22:47	1
Styrene	ND		1.0	0.73	ug/L			07/17/19 22:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 22:47	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 22:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 22:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 22:47	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/19 22:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 22:47	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 22:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 22:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		07/17/19 22:47	1
4-Bromofluorobenzene (Surr)	106		73 - 120		07/17/19 22:47	1
Dibromofluoromethane (Surr)	105		75 - 123		07/17/19 22:47	1
Toluene-d8 (Surr)	97		80 - 120		07/17/19 22:47	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.4	H E	0.20	0.10	ug/L		07/17/19 15:17	07/18/19 22:07	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	39		15 - 110	07/17/19 15:17	07/18/19 22:07	1			

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7	0.86	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78	ng/L		07/23/19 10:21	08/02/19 04:21	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.65</b>	<b>J</b>	1.7	0.54	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.66	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.46	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.52	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.69	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.82	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77	ng/L		07/23/19 10:21	08/02/19 04:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.52	ng/L		07/23/19 10:21	08/02/19 04:21	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW8BD**

**Lab Sample ID: 480-156213-2**

Date Collected: 07/09/19 13:20

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	ND		8.6	8.6	ng/L		07/23/19 10:21	08/02/19 04:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5	ng/L		07/23/19 10:21	08/02/19 04:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	17	1.3	ng/L		07/23/19 10:21	08/02/19 04:21	1
6:2 FTS	ND		17	4.0	ng/L		07/23/19 10:21	08/02/19 04:21	1
8:2 FTS	ND		17	2.5	ng/L		07/23/19 10:21	08/02/19 04:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	58		25 - 150				07/23/19 10:21	08/02/19 04:21	1
13C4 PFBA	76		25 - 150				07/23/19 10:21	08/02/19 04:21	1
13C5 PFPeA	80		25 - 150				07/23/19 10:21	08/02/19 04:21	1
13C2 PFHxA	80		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C4 PFHpA	83		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C4 PFOA	79		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C5 PFNA	83		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C2 PFDA	79		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C2 PFUnA	78		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C2 PFDoA	78		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C2 PFTeDA	66		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C3 PFBS	93		50 - 150				07/23/19 10:21	08/02/19 04:21	1
18O2 PFHxS	89		50 - 150				07/23/19 10:21	08/02/19 04:21	1
13C4 PFOS	79		50 - 150				07/23/19 10:21	08/02/19 04:21	1
d3-NMeFOSAA	63		50 - 150				07/23/19 10:21	08/02/19 04:21	1
d5-NEtFOSAA	60		50 - 150				07/23/19 10:21	08/02/19 04:21	1
M2-6:2 FTS	104		25 - 150				07/23/19 10:21	08/02/19 04:21	1
M2-8:2 FTS	101		25 - 150				07/23/19 10:21	08/02/19 04:21	1

**Client Sample ID: 356023-MW16**

**Lab Sample ID: 480-156213-3**

Date Collected: 07/09/19 17:10

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>13</b>		1.0	0.82	ug/L			07/17/19 23:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 23:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 23:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 23:11	1
<b>1,1-Dichloroethane</b>	<b>2.2</b>		1.0	0.38	ug/L			07/17/19 23:11	1
<b>1,1-Dichloroethene</b>	<b>10</b>		1.0	0.29	ug/L			07/17/19 23:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 23:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 23:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 23:11	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/17/19 23:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/19 23:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/19 23:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/19 23:11	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/19 23:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/19 23:11	1
1,4-Dioxane	ND		40	9.3	ug/L			07/17/19 23:11	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/19 23:11	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW16**

**Lab Sample ID: 480-156213-3**

**Date Collected: 07/09/19 17:10**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	1.2	ug/L			07/17/19 23:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/17/19 23:11	1
Acetone	ND		10	3.0	ug/L			07/17/19 23:11	1
Benzene	ND		1.0	0.41	ug/L			07/17/19 23:11	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/17/19 23:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/17/19 23:11	1
Bromoform	ND	*	1.0	0.26	ug/L			07/17/19 23:11	1
Bromomethane	ND		1.0	0.69	ug/L			07/17/19 23:11	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/17/19 23:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/19 23:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/19 23:11	1
Chloroethane	ND		1.0	0.32	ug/L			07/17/19 23:11	1
Chloroform	ND		1.0	0.34	ug/L			07/17/19 23:11	1
Chloromethane	ND		1.0	0.35	ug/L			07/17/19 23:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/19 23:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/17/19 23:11	1
Cyclohexane	ND		1.0	0.18	ug/L			07/17/19 23:11	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/17/19 23:11	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/19 23:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/19 23:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/19 23:11	1
Methyl acetate	ND		2.5	1.3	ug/L			07/17/19 23:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/19 23:11	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/17/19 23:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/19 23:11	1
Styrene	ND		1.0	0.73	ug/L			07/17/19 23:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 23:11	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 23:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 23:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 23:11	1
<b>Trichloroethene</b>	<b>1.3</b>		1.0	0.46	ug/L			07/17/19 23:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 23:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 23:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		07/17/19 23:11	1
4-Bromofluorobenzene (Surr)	105		73 - 120		07/17/19 23:11	1
Dibromofluoromethane (Surr)	103		75 - 123		07/17/19 23:11	1
Toluene-d8 (Surr)	97		80 - 120		07/17/19 23:11	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>4.2</b>	<b>H</b>	1.0	0.50	ug/L		07/17/19 15:17	07/21/19 17:29	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	39		15 - 110	07/17/19 15:17	07/21/19 17:29	5			

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.6	0.79	ng/L		07/23/19 10:21	08/02/19 04:29	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW16**

**Lab Sample ID: 480-156213-3**

Date Collected: 07/09/19 17:10

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.50	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.60	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.72	ng/L		07/23/19 10:21	08/02/19 04:29	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.52</b>	<b>J</b>	1.6	0.50	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.21	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.61	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.42	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.47	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.39	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.64	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 04:29	1
Perfluorooctanesulfonamide (FOSA)	ND		7.9	7.9	ng/L		07/23/19 10:21	08/02/19 04:29	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 04:29	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 04:29	1
6:2 FTS	ND		16	3.7	ng/L		07/23/19 10:21	08/02/19 04:29	1
8:2 FTS	ND		16	2.3	ng/L		07/23/19 10:21	08/02/19 04:29	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	78		25 - 150	07/23/19 10:21	08/02/19 04:29	1
13C4 PFBA	94		25 - 150	07/23/19 10:21	08/02/19 04:29	1
13C5 PFPeA	90		25 - 150	07/23/19 10:21	08/02/19 04:29	1
13C2 PFHxA	90		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C4 PFHpA	95		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C4 PFOA	82		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C5 PFNA	88		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C2 PFDA	85		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C2 PFUnA	88		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C2 PFDoA	85		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C2 PFTeDA	66		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C3 PFBS	90		50 - 150	07/23/19 10:21	08/02/19 04:29	1
18O2 PFHxS	88		50 - 150	07/23/19 10:21	08/02/19 04:29	1
13C4 PFOS	88		50 - 150	07/23/19 10:21	08/02/19 04:29	1
d3-NMeFOSAA	67		50 - 150	07/23/19 10:21	08/02/19 04:29	1
d5-NEtFOSAA	72		50 - 150	07/23/19 10:21	08/02/19 04:29	1
M2-6:2 FTS	95		25 - 150	07/23/19 10:21	08/02/19 04:29	1
M2-8:2 FTS	102		25 - 150	07/23/19 10:21	08/02/19 04:29	1

**Client Sample ID: 356023-MW14B 150**

**Lab Sample ID: 480-156213-4**

Date Collected: 07/09/19 11:50

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/19 23:35	1

Euofins TestAmerica, Buffalo



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW14B 150**

**Lab Sample ID: 480-156213-4**

**Date Collected: 07/09/19 11:50**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 23:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 23:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 23:35	1
<b>1,1-Dichloroethane</b>	<b>1.0</b>		1.0	0.38	ug/L			07/17/19 23:35	1
<b>1,1-Dichloroethene</b>	<b>0.66</b>	<b>J</b>	1.0	0.29	ug/L			07/17/19 23:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 23:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 23:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 23:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/17/19 23:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/19 23:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/19 23:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/19 23:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/19 23:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/19 23:35	1
1,4-Dioxane	ND		40	9.3	ug/L			07/17/19 23:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/19 23:35	1
2-Hexanone	ND		5.0	1.2	ug/L			07/17/19 23:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/17/19 23:35	1
Acetone	ND		10	3.0	ug/L			07/17/19 23:35	1
Benzene	ND		1.0	0.41	ug/L			07/17/19 23:35	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/17/19 23:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/17/19 23:35	1
Bromoform	ND	*	1.0	0.26	ug/L			07/17/19 23:35	1
Bromomethane	ND		1.0	0.69	ug/L			07/17/19 23:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/17/19 23:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/19 23:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/19 23:35	1
Chloroethane	ND		1.0	0.32	ug/L			07/17/19 23:35	1
Chloroform	ND		1.0	0.34	ug/L			07/17/19 23:35	1
Chloromethane	ND		1.0	0.35	ug/L			07/17/19 23:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/19 23:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/17/19 23:35	1
Cyclohexane	ND		1.0	0.18	ug/L			07/17/19 23:35	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/17/19 23:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/19 23:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/19 23:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/19 23:35	1
Methyl acetate	ND		2.5	1.3	ug/L			07/17/19 23:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/19 23:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/17/19 23:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/19 23:35	1
Styrene	ND		1.0	0.73	ug/L			07/17/19 23:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 23:35	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 23:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 23:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 23:35	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/19 23:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 23:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 23:35	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW14B 150**

**Lab Sample ID: 480-156213-4**

**Date Collected: 07/09/19 11:50**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					07/17/19 23:35	1
4-Bromofluorobenzene (Surr)	107		73 - 120					07/17/19 23:35	1
Dibromofluoromethane (Surr)	103		75 - 123					07/17/19 23:35	1
Toluene-d8 (Surr)	96		80 - 120					07/17/19 23:35	1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.4	H	1.0	0.50	ug/L		07/17/19 15:17	07/21/19 17:53	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	36		15 - 110				07/17/19 15:17	07/21/19 17:53	5

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.0		1.6	0.81	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluoropentanoic acid (PFPeA)	2.9		1.6	0.51	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorohexanoic acid (PFHxA)	3.1		1.6	0.61	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluoroheptanoic acid (PFHpA)	1.1	J	1.6	0.73	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorooctanoic acid (PFOA)	4.4		1.6	0.51	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorononanoic acid (PFNA)	0.92	J	1.6	0.22	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.62	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.74	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorobutanesulfonic acid (PFBS)	2.8		1.6	0.39	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.6	0.64	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.77	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorooctanesulfonic acid (PFOS)	2.5		1.6	0.49	ng/L		07/23/19 10:21	08/02/19 04:37	1
Perfluorooctanesulfonamide (FOSA)	ND		8.1	8.1	ng/L		07/23/19 10:21	08/02/19 04:37	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 04:37	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 04:37	1
6:2 FTS	ND		16	3.7	ng/L		07/23/19 10:21	08/02/19 04:37	1
8:2 FTS	ND		16	2.3	ng/L		07/23/19 10:21	08/02/19 04:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	75		25 - 150				07/23/19 10:21	08/02/19 04:37	1
13C4 PFBA	78		25 - 150				07/23/19 10:21	08/02/19 04:37	1
13C5 PFPeA	86		25 - 150				07/23/19 10:21	08/02/19 04:37	1
13C2 PFHxA	91		50 - 150				07/23/19 10:21	08/02/19 04:37	1
13C4 PFHpA	91		50 - 150				07/23/19 10:21	08/02/19 04:37	1
13C4 PFOA	83		50 - 150				07/23/19 10:21	08/02/19 04:37	1
13C5 PFNA	83		50 - 150				07/23/19 10:21	08/02/19 04:37	1

# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW14B 150**

**Lab Sample ID: 480-156213-4**

Date Collected: 07/09/19 11:50

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>13</i> C2 PFDA	84		50 - 150	07/23/19 10:21	08/02/19 04:37	1
<i>13</i> C2 PFUnA	84		50 - 150	07/23/19 10:21	08/02/19 04:37	1
<i>13</i> C2 PFDoA	77		50 - 150	07/23/19 10:21	08/02/19 04:37	1
<i>13</i> C2 PFTeDA	68		50 - 150	07/23/19 10:21	08/02/19 04:37	1
<i>13</i> C3 PFBS	88		50 - 150	07/23/19 10:21	08/02/19 04:37	1
<i>18</i> O2 PFHxS	92		50 - 150	07/23/19 10:21	08/02/19 04:37	1
<i>13</i> C4 PFOS	83		50 - 150	07/23/19 10:21	08/02/19 04:37	1
<i>d3</i> -NMeFOSAA	63		50 - 150	07/23/19 10:21	08/02/19 04:37	1
<i>d5</i> -NEtFOSAA	64		50 - 150	07/23/19 10:21	08/02/19 04:37	1
M2-6:2 FTS	101		25 - 150	07/23/19 10:21	08/02/19 04:37	1
M2-8:2 FTS	104		25 - 150	07/23/19 10:21	08/02/19 04:37	1

**Client Sample ID: 356023-MW12B 190**

**Lab Sample ID: 480-156213-5**

Date Collected: 07/09/19 17:27

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>5.3</b>		1.0	0.82	ug/L			07/17/19 23:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 23:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 23:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 23:59	1
<b>1,1-Dichloroethane</b>	<b>10</b>		1.0	0.38	ug/L			07/17/19 23:59	1
<b>1,1-Dichloroethene</b>	<b>15</b>		1.0	0.29	ug/L			07/17/19 23:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 23:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 23:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 23:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/17/19 23:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/19 23:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/19 23:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/19 23:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/19 23:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/19 23:59	1
1,4-Dioxane	ND		40	9.3	ug/L			07/17/19 23:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/19 23:59	1
2-Hexanone	ND		5.0	1.2	ug/L			07/17/19 23:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/17/19 23:59	1
Acetone	ND		10	3.0	ug/L			07/17/19 23:59	1
Benzene	ND		1.0	0.41	ug/L			07/17/19 23:59	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/17/19 23:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/17/19 23:59	1
Bromoform	ND *		1.0	0.26	ug/L			07/17/19 23:59	1
Bromomethane	ND		1.0	0.69	ug/L			07/17/19 23:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/17/19 23:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/19 23:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/19 23:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/17/19 23:59	1
Chloroform	ND		1.0	0.34	ug/L			07/17/19 23:59	1
Chloromethane	ND		1.0	0.35	ug/L			07/17/19 23:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/19 23:59	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW12B 190**

**Lab Sample ID: 480-156213-5**

**Date Collected: 07/09/19 17:27**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/17/19 23:59	1
Cyclohexane	ND		1.0	0.18	ug/L			07/17/19 23:59	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/17/19 23:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/19 23:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/19 23:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/19 23:59	1
Methyl acetate	ND		2.5	1.3	ug/L			07/17/19 23:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/19 23:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/17/19 23:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/19 23:59	1
Styrene	ND		1.0	0.73	ug/L			07/17/19 23:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 23:59	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 23:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 23:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 23:59	1
<b>Trichloroethene</b>	<b>3.5</b>		1.0	0.46	ug/L			07/17/19 23:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 23:59	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 23:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		07/17/19 23:59	1
4-Bromofluorobenzene (Surr)	105		73 - 120		07/17/19 23:59	1
Dibromofluoromethane (Surr)	107		75 - 123		07/17/19 23:59	1
Toluene-d8 (Surr)	96		80 - 120		07/17/19 23:59	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>9.2</b>	<b>H</b>	2.0	1.0	ug/L		07/17/19 15:17	07/21/19 18:17	10
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	35		15 - 110	07/17/19 15:17	07/21/19 18:17	10			

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>1.7</b>		1.7	0.83	ng/L		07/23/19 10:21	08/02/19 04:45	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>1.7</b>		1.7	0.52	ng/L		07/23/19 10:21	08/02/19 04:45	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>1.7</b>		1.7	0.63	ng/L		07/23/19 10:21	08/02/19 04:45	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.84</b>	<b>J</b>	1.7	0.76	ng/L		07/23/19 10:21	08/02/19 04:45	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>3.1</b>		1.7	0.52	ng/L		07/23/19 10:21	08/02/19 04:45	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.22	ng/L		07/23/19 10:21	08/02/19 04:45	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.64	ng/L		07/23/19 10:21	08/02/19 04:45	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44	ng/L		07/23/19 10:21	08/02/19 04:45	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49	ng/L		07/23/19 10:21	08/02/19 04:45	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50	ng/L		07/23/19 10:21	08/02/19 04:45	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77	ng/L		07/23/19 10:21	08/02/19 04:45	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>1.2</b>	<b>J</b>	1.7	0.41	ng/L		07/23/19 10:21	08/02/19 04:45	1
<b>Perfluorohexanesulfonic acid (PFHxS)</b>	<b>0.67</b>	<b>J</b>	1.7	0.67	ng/L		07/23/19 10:21	08/02/19 04:45	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.79	ng/L		07/23/19 10:21	08/02/19 04:45	1

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW12B 190**

**Lab Sample ID: 480-156213-5**

Date Collected: 07/09/19 17:27

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75	ng/L		07/23/19 10:21	08/02/19 04:45	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.8</b>		1.7	0.51	ng/L		07/23/19 10:21	08/02/19 04:45	1
Perfluorooctanesulfonamide (FOSA)	ND		8.3	8.3	ng/L		07/23/19 10:21	08/02/19 04:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		07/23/19 10:21	08/02/19 04:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	17	1.2	ng/L		07/23/19 10:21	08/02/19 04:45	1
6:2 FTS	ND		17	3.8	ng/L		07/23/19 10:21	08/02/19 04:45	1
8:2 FTS	ND		17	2.4	ng/L		07/23/19 10:21	08/02/19 04:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	73		25 - 150				07/23/19 10:21	08/02/19 04:45	1
13C4 PFBA	75		25 - 150				07/23/19 10:21	08/02/19 04:45	1
13C5 PFPeA	82		25 - 150				07/23/19 10:21	08/02/19 04:45	1
13C2 PFHxA	91		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C4 PFHpA	91		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C4 PFOA	81		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C5 PFNA	78		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C2 PFDA	80		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C2 PFUnA	75		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C2 PFDoA	66		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C2 PFTeDA	60		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C3 PFBS	86		50 - 150				07/23/19 10:21	08/02/19 04:45	1
18O2 PFHxS	88		50 - 150				07/23/19 10:21	08/02/19 04:45	1
13C4 PFOS	74		50 - 150				07/23/19 10:21	08/02/19 04:45	1
d3-NMeFOSAA	62		50 - 150				07/23/19 10:21	08/02/19 04:45	1
d5-NEtFOSAA	57		50 - 150				07/23/19 10:21	08/02/19 04:45	1
M2-6:2 FTS	98		25 - 150				07/23/19 10:21	08/02/19 04:45	1
M2-8:2 FTS	93		25 - 150				07/23/19 10:21	08/02/19 04:45	1

**Client Sample ID: 356023-MW11B**

**Lab Sample ID: 480-156213-6**

Date Collected: 07/10/19 11:37

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>1.4</b>		1.0	0.82	ug/L			07/18/19 00:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 00:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 00:23	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 00:23	1
<b>1,1-Dichloroethane</b>	<b>2.4</b>		1.0	0.38	ug/L			07/18/19 00:23	1
<b>1,1-Dichloroethene</b>	<b>4.9</b>		1.0	0.29	ug/L			07/18/19 00:23	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 00:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 00:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 00:23	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 00:23	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 00:23	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 00:23	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 00:23	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 00:23	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW11B**

**Lab Sample ID: 480-156213-6**

**Date Collected: 07/10/19 11:37**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 00:23	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 00:23	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 00:23	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 00:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 00:23	1
Acetone	ND		10	3.0	ug/L			07/18/19 00:23	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 00:23	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 00:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 00:23	1
Bromoform	ND	*	1.0	0.26	ug/L			07/18/19 00:23	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 00:23	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 00:23	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 00:23	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 00:23	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 00:23	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 00:23	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 00:23	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 00:23	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 00:23	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 00:23	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/18/19 00:23	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 00:23	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 00:23	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 00:23	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 00:23	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 00:23	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 00:23	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 00:23	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 00:23	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 00:23	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 00:23	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 00:23	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 00:23	1
<b>Trichloroethene</b>	<b>0.93</b>	<b>J</b>	1.0	0.46	ug/L			07/18/19 00:23	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 00:23	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 00:23	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		07/18/19 00:23	1
4-Bromofluorobenzene (Surr)	104		73 - 120		07/18/19 00:23	1
Dibromofluoromethane (Surr)	105		75 - 123		07/18/19 00:23	1
Toluene-d8 (Surr)	96		80 - 120		07/18/19 00:23	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>3.1</b>		1.0	0.50	ug/L		07/17/19 15:17	07/21/19 18:40	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	35		15 - 110	07/17/19 15:17	07/21/19 18:40	5			

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW11B**

**Lab Sample ID: 480-156213-6**

**Date Collected: 07/10/19 11:37**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.6	0.82	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.52	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.62	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.75	ng/L		07/23/19 10:21	08/02/19 04:53	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.53</b>	<b>J</b>	1.6	0.52	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.22	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.63	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.75	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.40	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.66	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.78	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.74	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.50	ng/L		07/23/19 10:21	08/02/19 04:53	1
Perfluorooctanesulfonamide (FOSA)	ND		8.2	8.2	ng/L		07/23/19 10:21	08/02/19 04:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 04:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 04:53	1
6:2 FTS	ND		16	3.8	ng/L		07/23/19 10:21	08/02/19 04:53	1
8:2 FTS	ND		16	2.4	ng/L		07/23/19 10:21	08/02/19 04:53	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	85		25 - 150				07/23/19 10:21	08/02/19 04:53	1
13C4 PFBA	93		25 - 150				07/23/19 10:21	08/02/19 04:53	1
13C5 PFPeA	94		25 - 150				07/23/19 10:21	08/02/19 04:53	1
13C2 PFHxA	97		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C4 PFHpA	96		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C4 PFOA	92		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C5 PFNA	94		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C2 PFDA	91		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C2 PFUnA	88		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C2 PFDoA	82		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C2 PFTeDA	65		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C3 PFBS	96		50 - 150				07/23/19 10:21	08/02/19 04:53	1
18O2 PFHxS	97		50 - 150				07/23/19 10:21	08/02/19 04:53	1
13C4 PFOS	94		50 - 150				07/23/19 10:21	08/02/19 04:53	1
d3-NMeFOSAA	74		50 - 150				07/23/19 10:21	08/02/19 04:53	1
d5-NEtFOSAA	71		50 - 150				07/23/19 10:21	08/02/19 04:53	1
M2-6:2 FTS	108		25 - 150				07/23/19 10:21	08/02/19 04:53	1
M2-8:2 FTS	97		25 - 150				07/23/19 10:21	08/02/19 04:53	1

# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW11C**

**Lab Sample ID: 480-156213-7**

**Date Collected: 07/10/19 15:23**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>2.2</b>		1.0	0.82	ug/L			07/18/19 00:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 00:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 00:47	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 00:47	1
<b>1,1-Dichloroethane</b>	<b>0.80</b>	<b>J</b>	1.0	0.38	ug/L			07/18/19 00:47	1
<b>1,1-Dichloroethene</b>	<b>3.2</b>		1.0	0.29	ug/L			07/18/19 00:47	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 00:47	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 00:47	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 00:47	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 00:47	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 00:47	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 00:47	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 00:47	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 00:47	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 00:47	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 00:47	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 00:47	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 00:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 00:47	1
Acetone	ND		10	3.0	ug/L			07/18/19 00:47	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 00:47	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 00:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 00:47	1
Bromoform	ND *		1.0	0.26	ug/L			07/18/19 00:47	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 00:47	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 00:47	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 00:47	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 00:47	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 00:47	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 00:47	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 00:47	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 00:47	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 00:47	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 00:47	1
Dibromochloromethane	ND *		1.0	0.32	ug/L			07/18/19 00:47	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 00:47	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 00:47	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 00:47	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 00:47	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 00:47	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 00:47	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 00:47	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 00:47	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 00:47	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 00:47	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 00:47	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 00:47	1
<b>Trichloroethene</b>	<b>0.64</b>	<b>J</b>	1.0	0.46	ug/L			07/18/19 00:47	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 00:47	1



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW11C**

**Lab Sample ID: 480-156213-7**

**Date Collected: 07/10/19 15:23**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 00:47	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 00:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					07/18/19 00:47	1
4-Bromofluorobenzene (Surr)	106		73 - 120					07/18/19 00:47	1
Dibromofluoromethane (Surr)	103		75 - 123					07/18/19 00:47	1
Toluene-d8 (Surr)	95		80 - 120					07/18/19 00:47	1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8	E	0.20	0.10	ug/L		07/17/19 15:17	07/19/19 01:24	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		15 - 110				07/17/19 15:17	07/19/19 01:24	1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.6	0.81	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.51	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.61	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.74	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorooctanoic acid (PFOA)	0.56	J	1.6	0.51	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.22	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.62	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.74	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.40	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.65	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.77	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.49	ng/L		07/23/19 10:21	08/02/19 05:01	1
Perfluorooctanesulfonamide (FOSA)	ND		8.1	8.1	ng/L		07/23/19 10:21	08/02/19 05:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 05:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 05:01	1
6:2 FTS	ND		16	3.7	ng/L		07/23/19 10:21	08/02/19 05:01	1
8:2 FTS	ND		16	2.3	ng/L		07/23/19 10:21	08/02/19 05:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	79		25 - 150				07/23/19 10:21	08/02/19 05:01	1
13C4 PFBA	87		25 - 150				07/23/19 10:21	08/02/19 05:01	1
13C5 PFPeA	95		25 - 150				07/23/19 10:21	08/02/19 05:01	1
13C2 PFHxA	94		50 - 150				07/23/19 10:21	08/02/19 05:01	1
13C4 PFHpA	95		50 - 150				07/23/19 10:21	08/02/19 05:01	1
13C4 PFOA	90		50 - 150				07/23/19 10:21	08/02/19 05:01	1
13C5 PFNA	92		50 - 150				07/23/19 10:21	08/02/19 05:01	1
13C2 PFDA	94		50 - 150				07/23/19 10:21	08/02/19 05:01	1

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW11C**

**Lab Sample ID: 480-156213-7**

Date Collected: 07/10/19 15:23

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	90		50 - 150	07/23/19 10:21	08/02/19 05:01	1
13C2 PFDoA	78		50 - 150	07/23/19 10:21	08/02/19 05:01	1
13C2 PFTeDA	65		50 - 150	07/23/19 10:21	08/02/19 05:01	1
13C3 PFBS	97		50 - 150	07/23/19 10:21	08/02/19 05:01	1
18O2 PFHxS	91		50 - 150	07/23/19 10:21	08/02/19 05:01	1
13C4 PFOS	88		50 - 150	07/23/19 10:21	08/02/19 05:01	1
d3-NMeFOSAA	75		50 - 150	07/23/19 10:21	08/02/19 05:01	1
d5-NEtFOSAA	66		50 - 150	07/23/19 10:21	08/02/19 05:01	1
M2-6:2 FTS	101		25 - 150	07/23/19 10:21	08/02/19 05:01	1
M2-8:2 FTS	110		25 - 150	07/23/19 10:21	08/02/19 05:01	1

**Client Sample ID: 356023-MW1801**

**Lab Sample ID: 480-156213-8**

Date Collected: 07/11/19 11:10

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/18/19 01:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 01:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 01:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 01:11	1
<b>1,1-Dichloroethane</b>	<b>1.1</b>		1.0	0.38	ug/L			07/18/19 01:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/18/19 01:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 01:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 01:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 01:11	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 01:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 01:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 01:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 01:11	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 01:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 01:11	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 01:11	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 01:11	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 01:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 01:11	1
Acetone	ND		10	3.0	ug/L			07/18/19 01:11	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 01:11	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 01:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 01:11	1
Bromoform	ND	*	1.0	0.26	ug/L			07/18/19 01:11	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 01:11	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 01:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 01:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 01:11	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 01:11	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 01:11	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 01:11	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 01:11	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 01:11	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW1801**

**Lab Sample ID: 480-156213-8**

**Date Collected: 07/11/19 11:10**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 01:11	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/18/19 01:11	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 01:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 01:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 01:11	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 01:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 01:11	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 01:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 01:11	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 01:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 01:11	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 01:11	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 01:11	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 01:11	1
Trichloroethene	ND		1.0	0.46	ug/L			07/18/19 01:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 01:11	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 01:11	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 01:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		07/18/19 01:11	1
4-Bromofluorobenzene (Surr)	103		73 - 120		07/18/19 01:11	1
Dibromofluoromethane (Surr)	105		75 - 123		07/18/19 01:11	1
Toluene-d8 (Surr)	97		80 - 120		07/18/19 01:11	1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0		0.20	0.10	ug/L		07/17/19 15:17	07/19/19 01:48	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	45		15 - 110	07/17/19 15:17	07/19/19 01:48	1			

**Client Sample ID: 356023-MW1802**

**Lab Sample ID: 480-156213-9**

**Date Collected: 07/11/19 11:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/18/19 01:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 01:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 01:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 01:35	1
1,1-Dichloroethane	1.4		1.0	0.38	ug/L			07/18/19 01:35	1
1,1-Dichloroethene	0.46	J	1.0	0.29	ug/L			07/18/19 01:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 01:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 01:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 01:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 01:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 01:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 01:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 01:35	1

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW1802**

**Lab Sample ID: 480-156213-9**

**Date Collected: 07/11/19 11:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 01:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 01:35	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 01:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 01:35	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 01:35	1
Acetone	ND		10	3.0	ug/L			07/18/19 01:35	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 01:35	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 01:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 01:35	1
Bromoform	ND	*	1.0	0.26	ug/L			07/18/19 01:35	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 01:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 01:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 01:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 01:35	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 01:35	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 01:35	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 01:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 01:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 01:35	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 01:35	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/18/19 01:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 01:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 01:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 01:35	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 01:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 01:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 01:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 01:35	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 01:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 01:35	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 01:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 01:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 01:35	1
Trichloroethene	ND		1.0	0.46	ug/L			07/18/19 01:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 01:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 01:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		07/18/19 01:35	1
4-Bromofluorobenzene (Surr)	106		73 - 120		07/18/19 01:35	1
Dibromofluoromethane (Surr)	104		75 - 123		07/18/19 01:35	1
Toluene-d8 (Surr)	97		80 - 120		07/18/19 01:35	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>1.3</b>	<b>E</b>	0.20	0.10	ug/L		07/17/19 15:17	07/19/19 02:11	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	37		15 - 110	07/17/19 15:17	07/19/19 02:11	1			

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW1803**

**Lab Sample ID: 480-156213-10**

**Date Collected: 07/11/19 11:30**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/18/19 01:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 01:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 01:59	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 01:59	1
<b>1,1-Dichloroethane</b>	<b>1.4</b>		1.0	0.38	ug/L			07/18/19 01:59	1
<b>1,1-Dichloroethene</b>	<b>0.43</b>	<b>J</b>	1.0	0.29	ug/L			07/18/19 01:59	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 01:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 01:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 01:59	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 01:59	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 01:59	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 01:59	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 01:59	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 01:59	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 01:59	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 01:59	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 01:59	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 01:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 01:59	1
Acetone	ND		10	3.0	ug/L			07/18/19 01:59	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 01:59	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 01:59	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 01:59	1
Bromoform	ND	*	1.0	0.26	ug/L			07/18/19 01:59	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 01:59	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 01:59	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 01:59	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 01:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 01:59	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 01:59	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 01:59	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 01:59	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 01:59	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 01:59	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/18/19 01:59	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 01:59	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 01:59	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 01:59	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 01:59	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 01:59	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 01:59	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 01:59	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 01:59	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 01:59	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 01:59	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 01:59	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 01:59	1
Trichloroethene	ND		1.0	0.46	ug/L			07/18/19 01:59	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 01:59	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW1803**

**Lab Sample ID: 480-156213-10**

**Date Collected: 07/11/19 11:30**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 01:59	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					07/18/19 01:59	1
4-Bromofluorobenzene (Surr)	106		73 - 120					07/18/19 01:59	1
Dibromofluoromethane (Surr)	105		75 - 123					07/18/19 01:59	1
Toluene-d8 (Surr)	98		80 - 120					07/18/19 01:59	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.4	E	0.20	0.10	ug/L		07/17/19 15:17	07/19/19 02:35	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	39		15 - 110				07/17/19 15:17	07/19/19 02:35	1

**Client Sample ID: 356023-MW5B**

**Lab Sample ID: 480-156213-11**

**Date Collected: 07/11/19 13:10**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1800		40	33	ug/L			07/18/19 02:23	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			07/18/19 02:23	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			07/18/19 02:23	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			07/18/19 02:23	40
1,1-Dichloroethane	42		40	15	ug/L			07/18/19 02:23	40
1,1-Dichloroethene	200		40	12	ug/L			07/18/19 02:23	40
1,2,3-Trichlorobenzene	ND		40	16	ug/L			07/18/19 02:23	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			07/18/19 02:23	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			07/18/19 02:23	40
1,2-Dibromoethane	ND		40	29	ug/L			07/18/19 02:23	40
1,2-Dichlorobenzene	ND		40	32	ug/L			07/18/19 02:23	40
1,2-Dichloroethane	ND		40	8.4	ug/L			07/18/19 02:23	40
1,2-Dichloropropane	ND		40	29	ug/L			07/18/19 02:23	40
1,3-Dichlorobenzene	ND		40	31	ug/L			07/18/19 02:23	40
1,4-Dichlorobenzene	ND		40	34	ug/L			07/18/19 02:23	40
1,4-Dioxane	ND		1600	370	ug/L			07/18/19 02:23	40
2-Butanone (MEK)	ND		400	53	ug/L			07/18/19 02:23	40
2-Hexanone	ND		200	50	ug/L			07/18/19 02:23	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			07/18/19 02:23	40
Acetone	ND		400	120	ug/L			07/18/19 02:23	40
Benzene	ND		40	16	ug/L			07/18/19 02:23	40
Bromochloromethane	ND		40	35	ug/L			07/18/19 02:23	40
Bromodichloromethane	ND		40	16	ug/L			07/18/19 02:23	40
Bromoform	ND	*	40	10	ug/L			07/18/19 02:23	40
Bromomethane	ND		40	28	ug/L			07/18/19 02:23	40
Carbon disulfide	ND		40	7.6	ug/L			07/18/19 02:23	40
Carbon tetrachloride	ND		40	11	ug/L			07/18/19 02:23	40
Chlorobenzene	ND		40	30	ug/L			07/18/19 02:23	40
Chloroethane	ND		40	13	ug/L			07/18/19 02:23	40

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW5B**

**Lab Sample ID: 480-156213-11**

**Date Collected: 07/11/19 13:10**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		40	14	ug/L			07/18/19 02:23	40
Chloromethane	ND		40	14	ug/L			07/18/19 02:23	40
cis-1,2-Dichloroethene	ND		40	32	ug/L			07/18/19 02:23	40
cis-1,3-Dichloropropene	ND		40	14	ug/L			07/18/19 02:23	40
Cyclohexane	ND		40	7.2	ug/L			07/18/19 02:23	40
Dibromochloromethane	ND	*	40	13	ug/L			07/18/19 02:23	40
Dichlorodifluoromethane	ND		40	27	ug/L			07/18/19 02:23	40
Ethylbenzene	ND		40	30	ug/L			07/18/19 02:23	40
Isopropylbenzene	ND		40	32	ug/L			07/18/19 02:23	40
Methyl acetate	ND		100	52	ug/L			07/18/19 02:23	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			07/18/19 02:23	40
Methylcyclohexane	ND		40	6.4	ug/L			07/18/19 02:23	40
<b>Methylene Chloride</b>	<b>22</b>	<b>J</b>	40	18	ug/L			07/18/19 02:23	40
Styrene	ND		40	29	ug/L			07/18/19 02:23	40
Tetrachloroethene	ND		40	14	ug/L			07/18/19 02:23	40
Toluene	ND		40	20	ug/L			07/18/19 02:23	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			07/18/19 02:23	40
trans-1,3-Dichloropropene	ND		40	15	ug/L			07/18/19 02:23	40
<b>Trichloroethene</b>	<b>87</b>		40	18	ug/L			07/18/19 02:23	40
Trichlorofluoromethane	ND		40	35	ug/L			07/18/19 02:23	40
Vinyl chloride	ND		40	36	ug/L			07/18/19 02:23	40
Xylenes, Total	ND		80	26	ug/L			07/18/19 02:23	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		07/18/19 02:23	40
4-Bromofluorobenzene (Surr)	108		73 - 120		07/18/19 02:23	40
Dibromofluoromethane (Surr)	108		75 - 123		07/18/19 02:23	40
Toluene-d8 (Surr)	98		80 - 120		07/18/19 02:23	40

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>10</b>		2.0	1.0	ug/L		07/17/19 15:17	07/21/19 19:04	10
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	34		15 - 110	07/17/19 15:17	07/21/19 19:04	10			

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>4.2</b>		1.6	0.80	ng/L		07/23/19 10:21	08/02/19 05:09	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>3.7</b>		1.6	0.50	ng/L		07/23/19 10:21	08/02/19 05:09	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>2.7</b>		1.6	0.61	ng/L		07/23/19 10:21	08/02/19 05:09	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>1.0</b>	<b>J</b>	1.6	0.73	ng/L		07/23/19 10:21	08/02/19 05:09	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.4</b>		1.6	0.50	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.22	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.61	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.42	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.47	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 05:09	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>1.0</b>	<b>J</b>	1.6	0.39	ng/L		07/23/19 10:21	08/02/19 05:09	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW5B**

**Lab Sample ID: 480-156213-11**

**Date Collected: 07/11/19 13:10**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.64	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72	ng/L		07/23/19 10:21	08/02/19 05:09	1
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>2.0</b>		1.6	0.49	ng/L		07/23/19 10:21	08/02/19 05:09	1
Perfluorooctanesulfonamide (FOSA)	ND		8.0	8.0	ng/L		07/23/19 10:21	08/02/19 05:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 05:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 05:09	1
6:2 FTS	ND		16	3.7	ng/L		07/23/19 10:21	08/02/19 05:09	1
8:2 FTS	ND		16	2.3	ng/L		07/23/19 10:21	08/02/19 05:09	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	68		25 - 150	07/23/19 10:21	08/02/19 05:09	1
13C4 PFBA	79		25 - 150	07/23/19 10:21	08/02/19 05:09	1
13C5 PFPeA	84		25 - 150	07/23/19 10:21	08/02/19 05:09	1
13C2 PFHxA	85		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C4 PFHpA	87		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C4 PFOA	84		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C5 PFNA	90		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C2 PFDA	85		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C2 PFUnA	75		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C2 PFDoA	73		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C2 PFTeDA	63		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C3 PFBS	94		50 - 150	07/23/19 10:21	08/02/19 05:09	1
18O2 PFHxS	94		50 - 150	07/23/19 10:21	08/02/19 05:09	1
13C4 PFOS	80		50 - 150	07/23/19 10:21	08/02/19 05:09	1
d3-NMeFOSAA	62		50 - 150	07/23/19 10:21	08/02/19 05:09	1
d5-NEtFOSAA	62		50 - 150	07/23/19 10:21	08/02/19 05:09	1
M2-6:2 FTS	105		25 - 150	07/23/19 10:21	08/02/19 05:09	1
M2-8:2 FTS	97		25 - 150	07/23/19 10:21	08/02/19 05:09	1

**Client Sample ID: 356023-ERT4**

**Lab Sample ID: 480-156213-12**

**Date Collected: 07/11/19 11:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>3100</b>		50	41	ug/L			07/18/19 02:47	50
1,1,2,2-Tetrachloroethane	ND		50	11	ug/L			07/18/19 02:47	50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16	ug/L			07/18/19 02:47	50
1,1,2-Trichloroethane	ND		50	12	ug/L			07/18/19 02:47	50
<b>1,1-Dichloroethane</b>	<b>78</b>		50	19	ug/L			07/18/19 02:47	50
<b>1,1-Dichloroethene</b>	<b>280</b>		50	15	ug/L			07/18/19 02:47	50
1,2,3-Trichlorobenzene	ND		50	21	ug/L			07/18/19 02:47	50
1,2,4-Trichlorobenzene	ND		50	21	ug/L			07/18/19 02:47	50
1,2-Dibromo-3-Chloropropane	ND		50	20	ug/L			07/18/19 02:47	50
1,2-Dibromoethane	ND		50	37	ug/L			07/18/19 02:47	50
1,2-Dichlorobenzene	ND		50	40	ug/L			07/18/19 02:47	50
1,2-Dichloroethane	ND		50	11	ug/L			07/18/19 02:47	50

Eurofins TestAmerica, Buffalo



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-ERT4**

**Lab Sample ID: 480-156213-12**

**Date Collected: 07/11/19 11:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		50	36	ug/L			07/18/19 02:47	50
1,3-Dichlorobenzene	ND		50	39	ug/L			07/18/19 02:47	50
1,4-Dichlorobenzene	ND		50	42	ug/L			07/18/19 02:47	50
1,4-Dioxane	ND		2000	470	ug/L			07/18/19 02:47	50
2-Butanone (MEK)	ND		500	66	ug/L			07/18/19 02:47	50
2-Hexanone	ND		250	62	ug/L			07/18/19 02:47	50
4-Methyl-2-pentanone (MIBK)	ND		250	110	ug/L			07/18/19 02:47	50
Acetone	ND		500	150	ug/L			07/18/19 02:47	50
Benzene	ND		50	21	ug/L			07/18/19 02:47	50
Bromochloromethane	ND		50	44	ug/L			07/18/19 02:47	50
Bromodichloromethane	ND		50	20	ug/L			07/18/19 02:47	50
Bromoform	ND	*	50	13	ug/L			07/18/19 02:47	50
Bromomethane	ND		50	35	ug/L			07/18/19 02:47	50
Carbon disulfide	ND		50	9.5	ug/L			07/18/19 02:47	50
Carbon tetrachloride	ND		50	14	ug/L			07/18/19 02:47	50
Chlorobenzene	ND		50	38	ug/L			07/18/19 02:47	50
Chloroethane	ND		50	16	ug/L			07/18/19 02:47	50
Chloroform	ND		50	17	ug/L			07/18/19 02:47	50
Chloromethane	ND		50	18	ug/L			07/18/19 02:47	50
cis-1,2-Dichloroethene	ND		50	41	ug/L			07/18/19 02:47	50
cis-1,3-Dichloropropene	ND		50	18	ug/L			07/18/19 02:47	50
Cyclohexane	ND		50	9.0	ug/L			07/18/19 02:47	50
Dibromochloromethane	ND	*	50	16	ug/L			07/18/19 02:47	50
Dichlorodifluoromethane	ND		50	34	ug/L			07/18/19 02:47	50
Ethylbenzene	ND		50	37	ug/L			07/18/19 02:47	50
Isopropylbenzene	ND		50	40	ug/L			07/18/19 02:47	50
Methyl acetate	ND		130	65	ug/L			07/18/19 02:47	50
Methyl tert-butyl ether	ND		50	8.0	ug/L			07/18/19 02:47	50
Methylcyclohexane	ND		50	8.0	ug/L			07/18/19 02:47	50
<b>Methylene Chloride</b>	<b>35</b>	<b>J</b>	50	22	ug/L			07/18/19 02:47	50
Styrene	ND		50	37	ug/L			07/18/19 02:47	50
Tetrachloroethene	ND		50	18	ug/L			07/18/19 02:47	50
Toluene	ND		50	26	ug/L			07/18/19 02:47	50
trans-1,2-Dichloroethene	ND		50	45	ug/L			07/18/19 02:47	50
trans-1,3-Dichloropropene	ND		50	19	ug/L			07/18/19 02:47	50
<b>Trichloroethene</b>	<b>140</b>		50	23	ug/L			07/18/19 02:47	50
Trichlorofluoromethane	ND		50	44	ug/L			07/18/19 02:47	50
Vinyl chloride	ND		50	45	ug/L			07/18/19 02:47	50
Xylenes, Total	ND		100	33	ug/L			07/18/19 02:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		07/18/19 02:47	50
4-Bromofluorobenzene (Surr)	103		73 - 120		07/18/19 02:47	50
Dibromofluoromethane (Surr)	107		75 - 123		07/18/19 02:47	50
Toluene-d8 (Surr)	96		80 - 120		07/18/19 02:47	50

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>12</b>	<b>E</b>	2.0	1.0	ug/L		07/17/19 15:17	07/21/19 19:28	10

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-ERT4**

**Lab Sample ID: 480-156213-12**

**Date Collected: 07/11/19 11:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110	07/17/19 15:17	07/21/19 19:28	10

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	7.4		1.6	0.82	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluoropentanoic acid (PFPeA)	7.8		1.6	0.51	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorohexanoic acid (PFHxA)	5.7		1.6	0.62	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluoroheptanoic acid (PFHpA)	2.5		1.6	0.74	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorooctanoic acid (PFOA)	6.8		1.6	0.51	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorononanoic acid (PFNA)	1.0	J	1.6	0.22	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.63	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluoroundecanoic acid (PFUnA)	0.61	J	1.6	0.43	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.75	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.6	0.40	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.6	0.65	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.78	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorooctanesulfonic acid (PFOS)	4.5		1.6	0.50	ng/L		07/23/19 10:21	08/02/19 05:25	1
Perfluorooctanesulfonamide (FOSA)	ND		8.2	8.2	ng/L		07/23/19 10:21	08/02/19 05:25	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 05:25	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 05:25	1
6:2 FTS	ND		16	3.8	ng/L		07/23/19 10:21	08/02/19 05:25	1
8:2 FTS	ND		16	2.4	ng/L		07/23/19 10:21	08/02/19 05:25	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	80		25 - 150	07/23/19 10:21	08/02/19 05:25	1
13C4 PFBA	76		25 - 150	07/23/19 10:21	08/02/19 05:25	1
13C5 PFPeA	90		25 - 150	07/23/19 10:21	08/02/19 05:25	1
13C2 PFHxA	89		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C4 PFHpA	92		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C4 PFOA	86		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C5 PFNA	90		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C2 PFDA	91		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C2 PFUnA	88		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C2 PFDoA	78		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C2 PFTeDA	61		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C3 PFBS	95		50 - 150	07/23/19 10:21	08/02/19 05:25	1
18O2 PFHxS	90		50 - 150	07/23/19 10:21	08/02/19 05:25	1
13C4 PFOS	82		50 - 150	07/23/19 10:21	08/02/19 05:25	1
d3-NMeFOSAA	65		50 - 150	07/23/19 10:21	08/02/19 05:25	1
d5-NEtFOSAA	66		50 - 150	07/23/19 10:21	08/02/19 05:25	1
M2-6:2 FTS	99		25 - 150	07/23/19 10:21	08/02/19 05:25	1
M2-8:2 FTS	102		25 - 150	07/23/19 10:21	08/02/19 05:25	1

# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW4**

**Lab Sample ID: 480-156213-13**

**Date Collected: 07/11/19 14:47**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>1100</b>		20	16	ug/L			07/18/19 03:11	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			07/18/19 03:11	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			07/18/19 03:11	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			07/18/19 03:11	20
<b>1,1-Dichloroethane</b>	<b>23</b>		20	7.6	ug/L			07/18/19 03:11	20
<b>1,1-Dichloroethene</b>	<b>130</b>		20	5.8	ug/L			07/18/19 03:11	20
1,2,3-Trichlorobenzene	ND		20	8.2	ug/L			07/18/19 03:11	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			07/18/19 03:11	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			07/18/19 03:11	20
1,2-Dibromoethane	ND		20	15	ug/L			07/18/19 03:11	20
1,2-Dichlorobenzene	ND		20	16	ug/L			07/18/19 03:11	20
1,2-Dichloroethane	ND		20	4.2	ug/L			07/18/19 03:11	20
1,2-Dichloropropane	ND		20	14	ug/L			07/18/19 03:11	20
1,3-Dichlorobenzene	ND		20	16	ug/L			07/18/19 03:11	20
1,4-Dichlorobenzene	ND		20	17	ug/L			07/18/19 03:11	20
1,4-Dioxane	ND		800	190	ug/L			07/18/19 03:11	20
2-Butanone (MEK)	ND		200	26	ug/L			07/18/19 03:11	20
2-Hexanone	ND		100	25	ug/L			07/18/19 03:11	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			07/18/19 03:11	20
Acetone	ND		200	60	ug/L			07/18/19 03:11	20
Benzene	ND		20	8.2	ug/L			07/18/19 03:11	20
Bromochloromethane	ND		20	17	ug/L			07/18/19 03:11	20
Bromodichloromethane	ND		20	7.8	ug/L			07/18/19 03:11	20
Bromoform	ND *		20	5.2	ug/L			07/18/19 03:11	20
Bromomethane	ND		20	14	ug/L			07/18/19 03:11	20
Carbon disulfide	ND		20	3.8	ug/L			07/18/19 03:11	20
Carbon tetrachloride	ND		20	5.4	ug/L			07/18/19 03:11	20
Chlorobenzene	ND		20	15	ug/L			07/18/19 03:11	20
Chloroethane	ND		20	6.4	ug/L			07/18/19 03:11	20
Chloroform	ND		20	6.8	ug/L			07/18/19 03:11	20
Chloromethane	ND		20	7.0	ug/L			07/18/19 03:11	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			07/18/19 03:11	20
cis-1,3-Dichloropropene	ND		20	7.2	ug/L			07/18/19 03:11	20
Cyclohexane	ND		20	3.6	ug/L			07/18/19 03:11	20
Dibromochloromethane	ND *		20	6.4	ug/L			07/18/19 03:11	20
Dichlorodifluoromethane	ND		20	14	ug/L			07/18/19 03:11	20
Ethylbenzene	ND		20	15	ug/L			07/18/19 03:11	20
Isopropylbenzene	ND		20	16	ug/L			07/18/19 03:11	20
Methyl acetate	ND		50	26	ug/L			07/18/19 03:11	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			07/18/19 03:11	20
Methylcyclohexane	ND		20	3.2	ug/L			07/18/19 03:11	20
<b>Methylene Chloride</b>	<b>14 J</b>		20	8.8	ug/L			07/18/19 03:11	20
Styrene	ND		20	15	ug/L			07/18/19 03:11	20
Tetrachloroethene	ND		20	7.2	ug/L			07/18/19 03:11	20
Toluene	ND		20	10	ug/L			07/18/19 03:11	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			07/18/19 03:11	20
trans-1,3-Dichloropropene	ND		20	7.4	ug/L			07/18/19 03:11	20
<b>Trichloroethene</b>	<b>390</b>		20	9.2	ug/L			07/18/19 03:11	20
Trichlorofluoromethane	ND		20	18	ug/L			07/18/19 03:11	20

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW4**

**Lab Sample ID: 480-156213-13**

**Date Collected: 07/11/19 14:47**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		20	18	ug/L			07/18/19 03:11	20
Xylenes, Total	ND		40	13	ug/L			07/18/19 03:11	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		07/18/19 03:11	20
4-Bromofluorobenzene (Surr)	105		73 - 120		07/18/19 03:11	20
Dibromofluoromethane (Surr)	104		75 - 123		07/18/19 03:11	20
Toluene-d8 (Surr)	98		80 - 120		07/18/19 03:11	20

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.4	E	1.0	0.50	ug/L		07/17/19 15:17	07/21/19 19:51	5

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	37		15 - 110	07/17/19 15:17	07/21/19 19:51	5

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.9		1.6	0.80	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluoropentanoic acid (PFPeA)	12		1.6	0.51	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorohexanoic acid (PFHxA)	6.3		1.6	0.61	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluoroheptanoic acid (PFHpA)	2.2		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorooctanoic acid (PFOA)	6.4		1.6	0.51	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorononanoic acid (PFNA)	0.42	J	1.6	0.22	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.62	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.47	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.74	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorobutanesulfonic acid (PFBS)	1.7		1.6	0.39	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorohexanesulfonic acid (PFHxS)	0.72	J	1.6	0.64	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorooctanesulfonic acid (PFOS)	2.1	I	1.6	0.49	ng/L		07/23/19 10:21	08/02/19 05:33	1
Perfluorooctanesulfonamide (FOSA)	ND		8.0	8.0	ng/L		07/23/19 10:21	08/02/19 05:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 05:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 05:33	1
6:2 FTS	ND		16	3.7	ng/L		07/23/19 10:21	08/02/19 05:33	1
8:2 FTS	ND		16	2.3	ng/L		07/23/19 10:21	08/02/19 05:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	79		25 - 150	07/23/19 10:21	08/02/19 05:33	1
13C4 PFBA	69		25 - 150	07/23/19 10:21	08/02/19 05:33	1
13C5 PFPeA	85		25 - 150	07/23/19 10:21	08/02/19 05:33	1
13C2 PFHxA	88		50 - 150	07/23/19 10:21	08/02/19 05:33	1
13C4 PFHpA	90		50 - 150	07/23/19 10:21	08/02/19 05:33	1
13C4 PFOA	90		50 - 150	07/23/19 10:21	08/02/19 05:33	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW4**

**Lab Sample ID: 480-156213-13**

**Date Collected: 07/11/19 14:47**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFNA	90		50 - 150	07/23/19 10:21	08/02/19 05:33	1
13C2 PFDA	93		50 - 150	07/23/19 10:21	08/02/19 05:33	1
13C2 PFUnA	89		50 - 150	07/23/19 10:21	08/02/19 05:33	1
13C2 PFDoA	78		50 - 150	07/23/19 10:21	08/02/19 05:33	1
13C2 PFTeDA	60		50 - 150	07/23/19 10:21	08/02/19 05:33	1
13C3 PFBS	89		50 - 150	07/23/19 10:21	08/02/19 05:33	1
18O2 PFHxS	88		50 - 150	07/23/19 10:21	08/02/19 05:33	1
13C4 PFOS	81		50 - 150	07/23/19 10:21	08/02/19 05:33	1
d3-NMeFOSAA	70		50 - 150	07/23/19 10:21	08/02/19 05:33	1
d5-NEtFOSAA	65		50 - 150	07/23/19 10:21	08/02/19 05:33	1
M2-6:2 FTS	103		25 - 150	07/23/19 10:21	08/02/19 05:33	1
M2-8:2 FTS	105		25 - 150	07/23/19 10:21	08/02/19 05:33	1

**Client Sample ID: 356023-MW6B**

**Lab Sample ID: 480-156213-14**

**Date Collected: 07/11/19 13:15**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>8.2</b>	<b>F1</b>	1.0	0.82	ug/L			07/18/19 03:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 03:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 03:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 03:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/18/19 03:34	1
<b>1,1-Dichloroethene</b>	<b>1.8</b>		1.0	0.29	ug/L			07/18/19 03:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 03:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 03:34	1
1,2-Dibromo-3-Chloropropane	ND	F1	1.0	0.39	ug/L			07/18/19 03:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 03:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 03:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 03:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 03:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 03:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 03:34	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 03:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 03:34	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 03:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 03:34	1
Acetone	ND		10	3.0	ug/L			07/18/19 03:34	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 03:34	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 03:34	1
Bromodichloromethane	ND	F1	1.0	0.39	ug/L			07/18/19 03:34	1
Bromoform	ND	* F1	1.0	0.26	ug/L			07/18/19 03:34	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 03:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 03:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 03:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 03:34	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 03:34	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 03:34	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 03:34	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW6B**

**Lab Sample ID: 480-156213-14**

**Date Collected: 07/11/19 13:15**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 03:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 03:34	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 03:34	1
Dibromochloromethane	ND	* F1	1.0	0.32	ug/L			07/18/19 03:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 03:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 03:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 03:34	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 03:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 03:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 03:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 03:34	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 03:34	1
Tetrachloroethene	ND	F1	1.0	0.36	ug/L			07/18/19 03:34	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 03:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 03:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 03:34	1
Trichloroethene	ND		1.0	0.46	ug/L			07/18/19 03:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 03:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 03:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		07/18/19 03:34	1
4-Bromofluorobenzene (Surr)	105		73 - 120		07/18/19 03:34	1
Dibromofluoromethane (Surr)	104		75 - 123		07/18/19 03:34	1
Toluene-d8 (Surr)	97		80 - 120		07/18/19 03:34	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.76		0.20	0.10	ug/L		07/17/19 15:17	07/18/19 21:19	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	43		15 - 110	07/17/19 15:17	07/18/19 21:19	1

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.6	J	1.8	0.88	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluoropentanoic acid (PFPeA)	2.0		1.8	0.55	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorohexanoic acid (PFHxA)	1.5	J	1.8	0.67	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.80	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorooctanoic acid (PFOA)	0.92	J	1.8	0.55	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.68	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.47	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.43	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.70	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.83	ng/L		07/23/19 10:21	08/02/19 05:41	1

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# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW6B**

**Lab Sample ID: 480-156213-14**

**Date Collected: 07/11/19 13:15**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.79	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54	ng/L		07/23/19 10:21	08/02/19 05:41	1
Perfluorooctanesulfonamide (FOSA)	ND		8.8	8.8	ng/L		07/23/19 10:21	08/02/19 05:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		07/23/19 10:21	08/02/19 05:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	18	1.3	ng/L		07/23/19 10:21	08/02/19 05:41	1
6:2 FTS	ND		18	4.0	ng/L		07/23/19 10:21	08/02/19 05:41	1
8:2 FTS	ND		18	2.5	ng/L		07/23/19 10:21	08/02/19 05:41	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	74		25 - 150				07/23/19 10:21	08/02/19 05:41	1
13C4 PFBA	78		25 - 150				07/23/19 10:21	08/02/19 05:41	1
13C5 PFPeA	86		25 - 150				07/23/19 10:21	08/02/19 05:41	1
13C2 PFHxA	90		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C4 PFHpA	87		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C4 PFOA	82		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C5 PFNA	80		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C2 PFDA	89		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C2 PFUnA	79		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C2 PFDoA	77		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C2 PFTeDA	61		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C3 PFBS	84		50 - 150				07/23/19 10:21	08/02/19 05:41	1
18O2 PFHxS	92		50 - 150				07/23/19 10:21	08/02/19 05:41	1
13C4 PFOS	83		50 - 150				07/23/19 10:21	08/02/19 05:41	1
d3-NMeFOSAA	61		50 - 150				07/23/19 10:21	08/02/19 05:41	1
d5-NEtFOSAA	64		50 - 150				07/23/19 10:21	08/02/19 05:41	1
M2-6:2 FTS	104		25 - 150				07/23/19 10:21	08/02/19 05:41	1
M2-8:2 FTS	96		25 - 150				07/23/19 10:21	08/02/19 05:41	1

**Client Sample ID: 356023-MW15B**

**Lab Sample ID: 480-156213-15**

**Date Collected: 07/12/19 09:30**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>26</b>		1.0	0.82	ug/L			07/18/19 03:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 03:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 03:58	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 03:58	1
<b>1,1-Dichloroethane</b>	<b>8.3</b>		1.0	0.38	ug/L			07/18/19 03:58	1
<b>1,1-Dichloroethene</b>	<b>19</b>		1.0	0.29	ug/L			07/18/19 03:58	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 03:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 03:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 03:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 03:58	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 03:58	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 03:58	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 03:58	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 03:58	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 03:58	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW15B**

**Lab Sample ID: 480-156213-15**

**Date Collected: 07/12/19 09:30**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 03:58	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 03:58	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 03:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 03:58	1
Acetone	ND		10	3.0	ug/L			07/18/19 03:58	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 03:58	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 03:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 03:58	1
Bromoform	ND	*	1.0	0.26	ug/L			07/18/19 03:58	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 03:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 03:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 03:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 03:58	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 03:58	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 03:58	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 03:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 03:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 03:58	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 03:58	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/18/19 03:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 03:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 03:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 03:58	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 03:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 03:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 03:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 03:58	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 03:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 03:58	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 03:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 03:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 03:58	1
<b>Trichloroethene</b>	<b>1.2</b>		1.0	0.46	ug/L			07/18/19 03:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 03:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 03:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 03:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		07/18/19 03:58	1
4-Bromofluorobenzene (Surr)	104		73 - 120		07/18/19 03:58	1
Dibromofluoromethane (Surr)	105		75 - 123		07/18/19 03:58	1
Toluene-d8 (Surr)	95		80 - 120		07/18/19 03:58	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>5.9</b>		1.0	0.50	ug/L		07/17/19 15:17	07/21/19 20:15	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	32		15 - 110	07/17/19 15:17	07/21/19 20:15	5			



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW15B**

**Lab Sample ID: 480-156213-15**

Date Collected: 07/12/19 09:30

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>1.4</b>	<b>J</b>	1.8	0.88	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.56	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.67	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.80	ng/L		07/23/19 10:21	08/02/19 06:06	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>0.89</b>	<b>J</b>	1.8	0.56	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.68	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.47	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81	ng/L		07/23/19 10:21	08/02/19 06:06	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.72</b>	<b>J</b>	1.8	0.43	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.71	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.84	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.79	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54	ng/L		07/23/19 10:21	08/02/19 06:06	1
Perfluorooctanesulfonamide (FOSA)	ND		8.8	8.8	ng/L		07/23/19 10:21	08/02/19 06:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5	ng/L		07/23/19 10:21	08/02/19 06:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	18	1.3	ng/L		07/23/19 10:21	08/02/19 06:06	1
6:2 FTS	ND		18	4.1	ng/L		07/23/19 10:21	08/02/19 06:06	1
8:2 FTS	ND		18	2.6	ng/L		07/23/19 10:21	08/02/19 06:06	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	69		25 - 150				07/23/19 10:21	08/02/19 06:06	1
13C4 PFBA	81		25 - 150				07/23/19 10:21	08/02/19 06:06	1
13C5 PFPeA	87		25 - 150				07/23/19 10:21	08/02/19 06:06	1
13C2 PFHxA	88		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C4 PFHpA	96		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C4 PFOA	91		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C5 PFNA	86		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C2 PFDA	90		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C2 PFUnA	85		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C2 PFDoA	82		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C2 PFTeDA	64		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C3 PFBS	92		50 - 150				07/23/19 10:21	08/02/19 06:06	1
18O2 PFHxS	94		50 - 150				07/23/19 10:21	08/02/19 06:06	1
13C4 PFOS	86		50 - 150				07/23/19 10:21	08/02/19 06:06	1
d3-NMeFOSAA	68		50 - 150				07/23/19 10:21	08/02/19 06:06	1
d5-NEtFOSAA	68		50 - 150				07/23/19 10:21	08/02/19 06:06	1
M2-6:2 FTS	105		25 - 150				07/23/19 10:21	08/02/19 06:06	1
M2-8:2 FTS	101		25 - 150				07/23/19 10:21	08/02/19 06:06	1

# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-EB1**

**Lab Sample ID: 480-156213-16**

**Date Collected: 07/12/19 09:45**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/18/19 04:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 04:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 04:22	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 04:22	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/18/19 04:22	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/18/19 04:22	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 04:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 04:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 04:22	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 04:22	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 04:22	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 04:22	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 04:22	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 04:22	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 04:22	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 04:22	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 04:22	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 04:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 04:22	1
<b>Acetone</b>	<b>10</b>		10	3.0	ug/L			07/18/19 04:22	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 04:22	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 04:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 04:22	1
Bromoform	ND	*	1.0	0.26	ug/L			07/18/19 04:22	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 04:22	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 04:22	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 04:22	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 04:22	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 04:22	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 04:22	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 04:22	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 04:22	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 04:22	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 04:22	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/18/19 04:22	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 04:22	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 04:22	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 04:22	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 04:22	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 04:22	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 04:22	1
<b>Methylene Chloride</b>	<b>0.60</b>	<b>J</b>	1.0	0.44	ug/L			07/18/19 04:22	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 04:22	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 04:22	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 04:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 04:22	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 04:22	1
Trichloroethene	ND		1.0	0.46	ug/L			07/18/19 04:22	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 04:22	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-EB1**

**Lab Sample ID: 480-156213-16**

**Date Collected: 07/12/19 09:45**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 04:22	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 04:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		07/18/19 04:22	1
4-Bromofluorobenzene (Surr)	107		73 - 120		07/18/19 04:22	1
Dibromofluoromethane (Surr)	103		75 - 123		07/18/19 04:22	1
Toluene-d8 (Surr)	96		80 - 120		07/18/19 04:22	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		07/17/19 15:17	07/19/19 04:32	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	33		15 - 110	07/17/19 15:17	07/19/19 04:32	1

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.6	0.82	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.52	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.62	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.75	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.52	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.22	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.63	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.75	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.40	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.66	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.78	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.74	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.50	ng/L		07/23/19 10:21	08/02/19 06:14	1
Perfluorooctanesulfonamide (FOSA)	ND		8.2	8.2	ng/L		07/23/19 10:21	08/02/19 06:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 06:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 06:14	1
6:2 FTS	ND		16	3.8	ng/L		07/23/19 10:21	08/02/19 06:14	1
8:2 FTS	ND		16	2.4	ng/L		07/23/19 10:21	08/02/19 06:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	67		25 - 150	07/23/19 10:21	08/02/19 06:14	1
13C4 PFBA	97		25 - 150	07/23/19 10:21	08/02/19 06:14	1
13C5 PFPeA	94		25 - 150	07/23/19 10:21	08/02/19 06:14	1
13C2 PFHxA	94		50 - 150	07/23/19 10:21	08/02/19 06:14	1
13C4 PFHpA	95		50 - 150	07/23/19 10:21	08/02/19 06:14	1
13C4 PFOA	90		50 - 150	07/23/19 10:21	08/02/19 06:14	1
13C5 PFNA	94		50 - 150	07/23/19 10:21	08/02/19 06:14	1
13C2 PFDA	101		50 - 150	07/23/19 10:21	08/02/19 06:14	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-EB1**

**Lab Sample ID: 480-156213-16**

**Date Collected: 07/12/19 09:45**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	91		50 - 150	07/23/19 10:21	08/02/19 06:14	1
13C2 PFDoA	76		50 - 150	07/23/19 10:21	08/02/19 06:14	1
13C2 PFTeDA	61		50 - 150	07/23/19 10:21	08/02/19 06:14	1
13C3 PFBS	89		50 - 150	07/23/19 10:21	08/02/19 06:14	1
18O2 PFHxS	89		50 - 150	07/23/19 10:21	08/02/19 06:14	1
13C4 PFOS	90		50 - 150	07/23/19 10:21	08/02/19 06:14	1
d3-NMeFOSAA	72		50 - 150	07/23/19 10:21	08/02/19 06:14	1
d5-NEtFOSAA	68		50 - 150	07/23/19 10:21	08/02/19 06:14	1
M2-6:2 FTS	99		25 - 150	07/23/19 10:21	08/02/19 06:14	1
M2-8:2 FTS	109		25 - 150	07/23/19 10:21	08/02/19 06:14	1

**Client Sample ID: 356023-MW1B**

**Lab Sample ID: 480-156213-17**

**Date Collected: 07/12/19 11:15**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/18/19 04:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 04:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 04:46	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 04:46	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/18/19 04:46	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/18/19 04:46	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 04:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 04:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 04:46	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 04:46	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 04:46	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 04:46	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 04:46	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 04:46	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 04:46	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 04:46	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 04:46	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 04:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 04:46	1
<b>Acetone</b>	<b>6.1</b>	<b>J</b>	10	3.0	ug/L			07/18/19 04:46	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 04:46	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 04:46	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 04:46	1
Bromoform	ND	*	1.0	0.26	ug/L			07/18/19 04:46	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 04:46	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 04:46	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 04:46	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 04:46	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 04:46	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 04:46	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 04:46	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 04:46	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 04:46	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW1B**

**Lab Sample ID: 480-156213-17**

**Date Collected: 07/12/19 11:15**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 04:46	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/18/19 04:46	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 04:46	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 04:46	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 04:46	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 04:46	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 04:46	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 04:46	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 04:46	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 04:46	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 04:46	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 04:46	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 04:46	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 04:46	1
Trichloroethene	ND		1.0	0.46	ug/L			07/18/19 04:46	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 04:46	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 04:46	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 04:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		07/18/19 04:46	1
4-Bromofluorobenzene (Surr)	103		73 - 120		07/18/19 04:46	1
Dibromofluoromethane (Surr)	104		75 - 123		07/18/19 04:46	1
Toluene-d8 (Surr)	96		80 - 120		07/18/19 04:46	1

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		07/17/19 15:17	07/19/19 04:56	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	43		15 - 110	07/17/19 15:17	07/19/19 04:56	1

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>3.1</b>		1.6	0.80	ng/L		07/23/19 10:21	08/02/19 06:22	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>1.0</b>	<b>J</b>	1.6	0.50	ng/L		07/23/19 10:21	08/02/19 06:22	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.76</b>	<b>J</b>	1.6	0.61	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 06:22	1
<b>Perfluorooctanoic acid (PFOA)</b>	<b>2.0</b>		1.6	0.50	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.22	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.61	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.42	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.47	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 06:22	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.67</b>	<b>J</b>	1.6	0.39	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.64	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72	ng/L		07/23/19 10:21	08/02/19 06:22	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW1B**

**Lab Sample ID: 480-156213-17**

Date Collected: 07/12/19 11:15

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorooctanesulfonic acid (PFOS)</b>	<b>0.60</b>	<b>J</b>	1.6	0.49	ng/L		07/23/19 10:21	08/02/19 06:22	1
Perfluorooctanesulfonamide (FOSA)	ND		8.0	8.0	ng/L		07/23/19 10:21	08/02/19 06:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 06:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 06:22	1
6:2 FTS	ND		16	3.7	ng/L		07/23/19 10:21	08/02/19 06:22	1
8:2 FTS	ND		16	2.3	ng/L		07/23/19 10:21	08/02/19 06:22	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C8 FOSA	77		25 - 150				07/23/19 10:21	08/02/19 06:22	1
13C4 PFBA	58		25 - 150				07/23/19 10:21	08/02/19 06:22	1
13C5 PFPeA	81		25 - 150				07/23/19 10:21	08/02/19 06:22	1
13C2 PFHxA	85		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C4 PFHpA	92		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C4 PFOA	87		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C5 PFNA	85		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C2 PFDA	92		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C2 PFUnA	87		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C2 PFDoA	79		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C2 PFTeDA	64		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C3 PFBS	86		50 - 150				07/23/19 10:21	08/02/19 06:22	1
18O2 PFHxS	85		50 - 150				07/23/19 10:21	08/02/19 06:22	1
13C4 PFOS	81		50 - 150				07/23/19 10:21	08/02/19 06:22	1
d3-NMeFOSAA	69		50 - 150				07/23/19 10:21	08/02/19 06:22	1
d5-NEtFOSAA	69		50 - 150				07/23/19 10:21	08/02/19 06:22	1
M2-6:2 FTS	107		25 - 150				07/23/19 10:21	08/02/19 06:22	1
M2-8:2 FTS	109		25 - 150				07/23/19 10:21	08/02/19 06:22	1

**Client Sample ID: 356023-MW5R**

**Lab Sample ID: 480-156213-18**

Date Collected: 07/12/19 11:10

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>110</b>		2.0	1.6	ug/L			07/18/19 05:09	2
1,1,1,2-Tetrachloroethane	ND		2.0	0.42	ug/L			07/18/19 05:09	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			07/18/19 05:09	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			07/18/19 05:09	2
<b>1,1-Dichloroethane</b>	<b>6.7</b>		2.0	0.76	ug/L			07/18/19 05:09	2
<b>1,1-Dichloroethene</b>	<b>24</b>		2.0	0.58	ug/L			07/18/19 05:09	2
1,2,3-Trichlorobenzene	ND		2.0	0.82	ug/L			07/18/19 05:09	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			07/18/19 05:09	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			07/18/19 05:09	2
1,2-Dibromoethane	ND		2.0	1.5	ug/L			07/18/19 05:09	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			07/18/19 05:09	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			07/18/19 05:09	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			07/18/19 05:09	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			07/18/19 05:09	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			07/18/19 05:09	2

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW5R**

**Lab Sample ID: 480-156213-18**

**Date Collected: 07/12/19 11:10**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		80	19	ug/L			07/18/19 05:09	2
2-Butanone (MEK)	ND		20	2.6	ug/L			07/18/19 05:09	2
2-Hexanone	ND		10	2.5	ug/L			07/18/19 05:09	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			07/18/19 05:09	2
Acetone	ND		20	6.0	ug/L			07/18/19 05:09	2
Benzene	ND		2.0	0.82	ug/L			07/18/19 05:09	2
Bromochloromethane	ND		2.0	1.7	ug/L			07/18/19 05:09	2
Bromodichloromethane	ND		2.0	0.78	ug/L			07/18/19 05:09	2
Bromoform	ND	*	2.0	0.52	ug/L			07/18/19 05:09	2
Bromomethane	ND		2.0	1.4	ug/L			07/18/19 05:09	2
Carbon disulfide	ND		2.0	0.38	ug/L			07/18/19 05:09	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			07/18/19 05:09	2
Chlorobenzene	ND		2.0	1.5	ug/L			07/18/19 05:09	2
Chloroethane	ND		2.0	0.64	ug/L			07/18/19 05:09	2
Chloroform	ND		2.0	0.68	ug/L			07/18/19 05:09	2
Chloromethane	ND		2.0	0.70	ug/L			07/18/19 05:09	2
cis-1,2-Dichloroethene	ND		2.0	1.6	ug/L			07/18/19 05:09	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			07/18/19 05:09	2
Cyclohexane	ND		2.0	0.36	ug/L			07/18/19 05:09	2
Dibromochloromethane	ND	*	2.0	0.64	ug/L			07/18/19 05:09	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			07/18/19 05:09	2
Ethylbenzene	ND		2.0	1.5	ug/L			07/18/19 05:09	2
Isopropylbenzene	ND		2.0	1.6	ug/L			07/18/19 05:09	2
Methyl acetate	ND		5.0	2.6	ug/L			07/18/19 05:09	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			07/18/19 05:09	2
Methylcyclohexane	ND		2.0	0.32	ug/L			07/18/19 05:09	2
<b>Methylene Chloride</b>	<b>1.2</b>	<b>J</b>	2.0	0.88	ug/L			07/18/19 05:09	2
Styrene	ND		2.0	1.5	ug/L			07/18/19 05:09	2
Tetrachloroethene	ND		2.0	0.72	ug/L			07/18/19 05:09	2
Toluene	ND		2.0	1.0	ug/L			07/18/19 05:09	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			07/18/19 05:09	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			07/18/19 05:09	2
<b>Trichloroethene</b>	<b>7.6</b>		2.0	0.92	ug/L			07/18/19 05:09	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			07/18/19 05:09	2
Vinyl chloride	ND		2.0	1.8	ug/L			07/18/19 05:09	2
Xylenes, Total	ND		4.0	1.3	ug/L			07/18/19 05:09	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120		07/18/19 05:09	2
4-Bromofluorobenzene (Surr)	104		73 - 120		07/18/19 05:09	2
Dibromofluoromethane (Surr)	104		75 - 123		07/18/19 05:09	2
Toluene-d8 (Surr)	95		80 - 120		07/18/19 05:09	2

**Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>6.1</b>	<b>E</b>	1.0	0.50	ug/L		07/17/19 15:17	07/21/19 20:38	5
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	37		15 - 110	07/17/19 15:17	07/21/19 20:38	5			

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW5R**

**Lab Sample ID: 480-156213-18**

Date Collected: 07/12/19 11:10

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 537 (modified) - Fluorinated Alkyl Substances**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.2	J	1.7	0.84	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluoropentanoic acid (PFPeA)	0.89	J	1.7	0.53	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorohexanoic acid (PFHxA)	0.65	J	1.7	0.64	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.76	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorooctanoic acid (PFOA)	1.2	J	1.7	0.53	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.64	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorobutanesulfonic acid (PFBS)	0.42	J	1.7	0.41	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.80	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorooctanesulfonic acid (PFOS)	0.74	J	1.7	0.51	ng/L		07/23/19 10:21	08/02/19 06:30	1
Perfluorooctanesulfonamide (FOSA)	ND		8.4	8.4	ng/L		07/23/19 10:21	08/02/19 06:30	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4	ng/L		07/23/19 10:21	08/02/19 06:30	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	17	1.3	ng/L		07/23/19 10:21	08/02/19 06:30	1
6:2 FTS	ND		17	3.9	ng/L		07/23/19 10:21	08/02/19 06:30	1
8:2 FTS	ND		17	2.4	ng/L		07/23/19 10:21	08/02/19 06:30	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C8 FOSA	60		25 - 150				07/23/19 10:21	08/02/19 06:30	1
13C4 PFBA	84		25 - 150				07/23/19 10:21	08/02/19 06:30	1
13C5 PFPeA	85		25 - 150				07/23/19 10:21	08/02/19 06:30	1
13C2 PFHxA	82		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C4 PFHpA	90		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C4 PFOA	80		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C5 PFNA	82		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C2 PFDA	85		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C2 PFUnA	77		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C2 PFDoA	72		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C2 PFTeDA	61		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C3 PFBS	89		50 - 150				07/23/19 10:21	08/02/19 06:30	1
18O2 PFHxS	87		50 - 150				07/23/19 10:21	08/02/19 06:30	1
13C4 PFOS	82		50 - 150				07/23/19 10:21	08/02/19 06:30	1
d3-NMeFOSAA	60		50 - 150				07/23/19 10:21	08/02/19 06:30	1
d5-NEtFOSAA	64		50 - 150				07/23/19 10:21	08/02/19 06:30	1
M2-6:2 FTS	101		25 - 150				07/23/19 10:21	08/02/19 06:30	1
M2-8:2 FTS	91		25 - 150				07/23/19 10:21	08/02/19 06:30	1



# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW7R**

**Lab Sample ID: 480-156213-19**

Date Collected: 07/12/19 11:30

Matrix: Water

Date Received: 07/13/19 09:00

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,1,1-Trichloroethane</b>	<b>41</b>		1.0	0.82	ug/L			07/18/19 05:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 05:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 05:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 05:34	1
<b>1,1-Dichloroethane</b>	<b>14</b>		1.0	0.38	ug/L			07/18/19 05:34	1
<b>1,1-Dichloroethene</b>	<b>5.7</b>		1.0	0.29	ug/L			07/18/19 05:34	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 05:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 05:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 05:34	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 05:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 05:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 05:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 05:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 05:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 05:34	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 05:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 05:34	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 05:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 05:34	1
Acetone	ND		10	3.0	ug/L			07/18/19 05:34	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 05:34	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 05:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 05:34	1
Bromoform	ND *		1.0	0.26	ug/L			07/18/19 05:34	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 05:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 05:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 05:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 05:34	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 05:34	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 05:34	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 05:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 05:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 05:34	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 05:34	1
Dibromochloromethane	ND *		1.0	0.32	ug/L			07/18/19 05:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 05:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 05:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 05:34	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 05:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 05:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 05:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 05:34	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 05:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 05:34	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 05:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 05:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 05:34	1
<b>Trichloroethene</b>	<b>0.94 J</b>		1.0	0.46	ug/L			07/18/19 05:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 05:34	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW7R**

**Lab Sample ID: 480-156213-19**

**Date Collected: 07/12/19 11:30**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 05:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 05:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					07/18/19 05:34	1
4-Bromofluorobenzene (Surr)	107		73 - 120					07/18/19 05:34	1
Dibromofluoromethane (Surr)	107		75 - 123					07/18/19 05:34	1
Toluene-d8 (Surr)	97		80 - 120					07/18/19 05:34	1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.3	E	0.20	0.10	ug/L		07/17/19 15:17	07/19/19 05:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	41		15 - 110				07/17/19 15:17	07/19/19 05:43	1

## Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	1.4	J	1.6	0.81	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluoropentanoic acid (PFPeA)	0.77	J	1.6	0.51	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.62	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.74	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorooctanoic acid (PFOA)	1.5	J	1.6	0.51	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.22	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.63	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.75	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorobutanesulfonic acid (PFBS)	0.72	J	1.6	0.40	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.65	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.77	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.73	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorooctanesulfonic acid (PFOS)	0.97	J	1.6	0.50	ng/L		07/23/19 10:21	08/02/19 06:38	1
Perfluorooctanesulfonamide (FOSA)	ND		8.1	8.1	ng/L		07/23/19 10:21	08/02/19 06:38	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4	ng/L		07/23/19 10:21	08/02/19 06:38	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2	ng/L		07/23/19 10:21	08/02/19 06:38	1
6:2 FTS	ND		16	3.7	ng/L		07/23/19 10:21	08/02/19 06:38	1
8:2 FTS	ND		16	2.4	ng/L		07/23/19 10:21	08/02/19 06:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	55		25 - 150				07/23/19 10:21	08/02/19 06:38	1
13C4 PFBA	77		25 - 150				07/23/19 10:21	08/02/19 06:38	1
13C5 PFPeA	76		25 - 150				07/23/19 10:21	08/02/19 06:38	1
13C2 PFHxA	77		50 - 150				07/23/19 10:21	08/02/19 06:38	1
13C4 PFHpA	82		50 - 150				07/23/19 10:21	08/02/19 06:38	1
13C4 PFOA	79		50 - 150				07/23/19 10:21	08/02/19 06:38	1
13C5 PFNA	78		50 - 150				07/23/19 10:21	08/02/19 06:38	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW7R**

**Lab Sample ID: 480-156213-19**

**Date Collected: 07/12/19 11:30**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)**

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDA	76		50 - 150	07/23/19 10:21	08/02/19 06:38	1
13C2 PFUnA	76		50 - 150	07/23/19 10:21	08/02/19 06:38	1
13C2 PFDoA	71		50 - 150	07/23/19 10:21	08/02/19 06:38	1
13C2 PFTeDA	59		50 - 150	07/23/19 10:21	08/02/19 06:38	1
13C3 PFBS	86		50 - 150	07/23/19 10:21	08/02/19 06:38	1
18O2 PFHxS	87		50 - 150	07/23/19 10:21	08/02/19 06:38	1
13C4 PFOS	80		50 - 150	07/23/19 10:21	08/02/19 06:38	1
d3-NMeFOSAA	57		50 - 150	07/23/19 10:21	08/02/19 06:38	1
d5-NEtFOSAA	59		50 - 150	07/23/19 10:21	08/02/19 06:38	1
M2-6:2 FTS	95		25 - 150	07/23/19 10:21	08/02/19 06:38	1
M2-8:2 FTS	103		25 - 150	07/23/19 10:21	08/02/19 06:38	1

**Client Sample ID: 356023-TB1**

**Lab Sample ID: 480-156213-20**

**Date Collected: 07/09/19 12:00**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/18/19 05:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/18/19 05:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/18/19 05:57	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/19 05:57	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/18/19 05:57	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/18/19 05:57	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 05:57	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/19 05:57	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/18/19 05:57	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/18/19 05:57	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/19 05:57	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/19 05:57	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/19 05:57	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/19 05:57	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/19 05:57	1
1,4-Dioxane	ND		40	9.3	ug/L			07/18/19 05:57	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/19 05:57	1
2-Hexanone	ND		5.0	1.2	ug/L			07/18/19 05:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/18/19 05:57	1
<b>Acetone</b>	<b>4.1</b>	<b>J</b>	10	3.0	ug/L			07/18/19 05:57	1
Benzene	ND		1.0	0.41	ug/L			07/18/19 05:57	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/18/19 05:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/18/19 05:57	1
Bromoform	ND	*	1.0	0.26	ug/L			07/18/19 05:57	1
Bromomethane	ND		1.0	0.69	ug/L			07/18/19 05:57	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/18/19 05:57	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/19 05:57	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/19 05:57	1
Chloroethane	ND		1.0	0.32	ug/L			07/18/19 05:57	1
Chloroform	ND		1.0	0.34	ug/L			07/18/19 05:57	1
Chloromethane	ND		1.0	0.35	ug/L			07/18/19 05:57	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/19 05:57	1

# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-TB1**

**Lab Sample ID: 480-156213-20**

**Date Collected: 07/09/19 12:00**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

**Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/18/19 05:57	1
Cyclohexane	ND		1.0	0.18	ug/L			07/18/19 05:57	1
Dibromochloromethane	ND	*	1.0	0.32	ug/L			07/18/19 05:57	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/19 05:57	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/19 05:57	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/19 05:57	1
Methyl acetate	ND		2.5	1.3	ug/L			07/18/19 05:57	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/19 05:57	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/18/19 05:57	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/19 05:57	1
Styrene	ND		1.0	0.73	ug/L			07/18/19 05:57	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/19 05:57	1
Toluene	ND		1.0	0.51	ug/L			07/18/19 05:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/19 05:57	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/18/19 05:57	1
Trichloroethene	ND		1.0	0.46	ug/L			07/18/19 05:57	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/19 05:57	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/19 05:57	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/18/19 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		07/18/19 05:57	1
4-Bromofluorobenzene (Surr)	105		73 - 120		07/18/19 05:57	1
Dibromofluoromethane (Surr)	102		75 - 123		07/18/19 05:57	1
Toluene-d8 (Surr)	96		80 - 120		07/18/19 05:57	1

# Surrogate Summary

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-156213-1	356023-MW8B	101	107	104	97
480-156213-2	356023-MW8BD	101	106	105	97
480-156213-3	356023-MW16	99	105	103	97
480-156213-4	356023-MW14B 150	102	107	103	96
480-156213-5	356023-MW12B 190	105	105	107	96
480-156213-6	356023-MW11B	106	104	105	96
480-156213-7	356023-MW11C	103	106	103	95
480-156213-8	356023-MW1801	104	103	105	97
480-156213-9	356023-MW1802	103	106	104	97
480-156213-10	356023-MW1803	103	106	105	98
480-156213-11	356023-MW5B	104	108	108	98
480-156213-12	356023-ERT4	103	103	107	96
480-156213-13	356023-MW4	102	105	104	98
480-156213-14	356023-MW6B	100	105	104	97
480-156213-14 MS	356023-MW6B	105	103	103	96
480-156213-14 MSD	356023-MW6B	104	107	104	98
480-156213-15	356023-MW15B	103	104	105	95
480-156213-16	356023-EB1	103	107	103	96
480-156213-17	356023-MW1B	102	103	104	96
480-156213-18	356023-MW5R	104	104	104	95
480-156213-19	356023-MW7R	104	107	107	97
480-156213-20	356023-TB1	101	105	102	96
LCS 480-482537/5	Lab Control Sample	100	107	100	98
MB 480-482537/7	Method Blank	102	105	102	97

### Surrogate Legend

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

# Isotope Dilution Summary

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-156213-1	356023-MW8B	31
480-156213-2	356023-MW8BD	39
480-156213-3	356023-MW16	39
480-156213-4	356023-MW14B 150	36
480-156213-5	356023-MW12B 190	35
480-156213-6	356023-MW11B	35
480-156213-7	356023-MW11C	39
480-156213-8	356023-MW1801	45
480-156213-9	356023-MW1802	37
480-156213-10	356023-MW1803	39
480-156213-11	356023-MW5B	34
480-156213-12	356023-ERT4	28
480-156213-13	356023-MW4	37
480-156213-14	356023-MW6B	43
480-156213-14 MS	356023-MW6B	34
480-156213-14 MSD	356023-MW6B	38
480-156213-15	356023-MW15B	32
480-156213-16	356023-EB1	33
480-156213-17	356023-MW1B	43
480-156213-18	356023-MW5R	37
480-156213-19	356023-MW7R	41
LCS 480-482507/2-A	Lab Control Sample	34
MB 480-482507/1-A	Method Blank	38

**Surrogate Legend**

DXE = 1,4-Dioxane-d8

## Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (50-150)	PFHpA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
480-156213-1	356023-MW8B	72	92	92	93	93	80	89	90
480-156213-2	356023-MW8BD	58	76	80	80	83	79	83	79
480-156213-3	356023-MW16	78	94	90	90	95	82	88	85
480-156213-4	356023-MW14B 150	75	78	86	91	91	83	83	84
480-156213-5	356023-MW12B 190	73	75	82	91	91	81	78	80
480-156213-6	356023-MW11B	85	93	94	97	96	92	94	91
480-156213-7	356023-MW11C	79	87	95	94	95	90	92	94
480-156213-11	356023-MW5B	68	79	84	85	87	84	90	85
480-156213-12	356023-ERT4	80	76	90	89	92	86	90	91
480-156213-13	356023-MW4	79	69	85	88	90	90	90	93
480-156213-14	356023-MW6B	74	78	86	90	87	82	80	89
480-156213-14 MS	356023-MW6B	74	82	88	88	90	85	86	87
480-156213-14 MSD	356023-MW6B	71	83	86	89	92	81	83	85
480-156213-15	356023-MW15B	69	81	87	88	96	91	86	90
480-156213-16	356023-EB1	67	97	94	94	95	90	94	101
480-156213-17	356023-MW1B	77	58	81	85	92	87	85	92
480-156213-18	356023-MW5R	60	84	85	82	90	80	82	85

# Isotope Dilution Summary

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Matrix: Water**

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (50-150)	PFHpA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
480-156213-19	356023-MW7R	55	77	76	77	82	79	78	76
LCS 200-145382/2-A	Lab Control Sample	70	104	102	100	100	87	104	104
MB 200-145382/1-A	Method Blank	73	94	92	95	93	89	94	102

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDoA (50-150)	PFTDA (50-150)	3C3-PFB† (50-150)	PFHxS (50-150)	PFOS (50-150)	-NMeFOS (50-150)	-NEtFOS/ (50-150)
480-156213-1	356023-MW8B	88	81	63	87	88	83	66	67
480-156213-2	356023-MW8BD	78	78	66	93	89	79	63	60
480-156213-3	356023-MW16	88	85	66	90	88	88	67	72
480-156213-4	356023-MW14B 150	84	77	68	88	92	83	63	64
480-156213-5	356023-MW12B 190	75	66	60	86	88	74	62	57
480-156213-6	356023-MW11B	88	82	65	96	97	94	74	71
480-156213-7	356023-MW11C	90	78	65	97	91	88	75	66
480-156213-11	356023-MW5B	75	73	63	94	94	80	62	62
480-156213-12	356023-ERT4	88	78	61	95	90	82	65	66
480-156213-13	356023-MW4	89	78	60	89	88	81	70	65
480-156213-14	356023-MW6B	79	77	61	84	92	83	61	64
480-156213-14 MS	356023-MW6B	86	83	67	93	94	89	64	67
480-156213-14 MSD	356023-MW6B	80	87	63	101	90	86	64	65
480-156213-15	356023-MW15B	85	82	64	92	94	86	68	68
480-156213-16	356023-EB1	91	76	61	89	89	90	72	68
480-156213-17	356023-MW1B	87	79	64	86	85	81	69	69
480-156213-18	356023-MW5R	77	72	61	89	87	82	60	64
480-156213-19	356023-MW7R	76	71	59	86	87	80	57	59
LCS 200-145382/2-A	Lab Control Sample	93	79	59	96	93	99	76	71
MB 200-145382/1-A	Method Blank	94	96	65	90	89	90	82	79

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-156213-1	356023-MW8B	89	99
480-156213-2	356023-MW8BD	104	101
480-156213-3	356023-MW16	95	102
480-156213-4	356023-MW14B 150	101	104
480-156213-5	356023-MW12B 190	98	93
480-156213-6	356023-MW11B	108	97
480-156213-7	356023-MW11C	101	110
480-156213-11	356023-MW5B	105	97
480-156213-12	356023-ERT4	99	102
480-156213-13	356023-MW4	103	105
480-156213-14	356023-MW6B	104	96
480-156213-14 MS	356023-MW6B	104	111
480-156213-14 MSD	356023-MW6B	109	104
480-156213-15	356023-MW15B	105	101
480-156213-16	356023-EB1	99	109
480-156213-17	356023-MW1B	107	109
480-156213-18	356023-MW5R	101	91
480-156213-19	356023-MW7R	95	103
LCS 200-145382/2-A	Lab Control Sample	102	117
MB 200-145382/1-A	Method Blank	101	111

# Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-156213-1

Project/Site: Mohonk Rd. #356023 Groundwaters

## Surrogate Legend

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PFOSA = 13C8 FOSA

PFBA = 13C4 PFBA

PFPeA = 13C5 PFPeA

PFHxA = 13C2 PFHxA

PFHpA = 13C4 PFHpA

PFOA = 13C4 PFOA

PFNA = 13C5 PFNA

PFDA = 13C2 PFDA

PFUnA = 13C2 PFUnA

PFDoA = 13C2 PFDoA

PFTDA = 13C2 PFTeDA

13C3-PFBS = 13C3 PFBS

PFHxS = 18O2 PFHxS

PFOS = 13C4 PFOS

d3-NMeFOSAA = d3-NMeFOSAA

d5-NEtFOSAA = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS



# QC Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 8260C - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 480-482537/7**  
**Matrix: Water**  
**Analysis Batch: 482537**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/19 21:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			07/17/19 21:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/17/19 21:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/19 21:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/19 21:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/19 21:43	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 21:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/19 21:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			07/17/19 21:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			07/17/19 21:43	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/19 21:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/19 21:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/19 21:43	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/19 21:43	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/19 21:43	1
1,4-Dioxane	ND		40	9.3	ug/L			07/17/19 21:43	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/19 21:43	1
2-Hexanone	ND		5.0	1.2	ug/L			07/17/19 21:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			07/17/19 21:43	1
Acetone	ND		10	3.0	ug/L			07/17/19 21:43	1
Benzene	ND		1.0	0.41	ug/L			07/17/19 21:43	1
Bromochloromethane	ND		1.0	0.87	ug/L			07/17/19 21:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			07/17/19 21:43	1
Bromoform	ND		1.0	0.26	ug/L			07/17/19 21:43	1
Bromomethane	ND		1.0	0.69	ug/L			07/17/19 21:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			07/17/19 21:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/19 21:43	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/19 21:43	1
Chloroethane	ND		1.0	0.32	ug/L			07/17/19 21:43	1
Chloroform	ND		1.0	0.34	ug/L			07/17/19 21:43	1
Chloromethane	ND		1.0	0.35	ug/L			07/17/19 21:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/19 21:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			07/17/19 21:43	1
Cyclohexane	ND		1.0	0.18	ug/L			07/17/19 21:43	1
Dibromochloromethane	ND		1.0	0.32	ug/L			07/17/19 21:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/19 21:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/19 21:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/19 21:43	1
Methyl acetate	ND		2.5	1.3	ug/L			07/17/19 21:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/19 21:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			07/17/19 21:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/19 21:43	1
Styrene	ND		1.0	0.73	ug/L			07/17/19 21:43	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/19 21:43	1
Toluene	ND		1.0	0.51	ug/L			07/17/19 21:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/19 21:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			07/17/19 21:43	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/19 21:43	1

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: MB 480-4825377**  
**Matrix: Water**  
**Analysis Batch: 482537**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/19 21:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/19 21:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			07/17/19 21:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		07/17/19 21:43	1
4-Bromofluorobenzene (Surr)	105		73 - 120		07/17/19 21:43	1
Dibromofluoromethane (Surr)	102		75 - 123		07/17/19 21:43	1
Toluene-d8 (Surr)	97		80 - 120		07/17/19 21:43	1

**Lab Sample ID: LCS 480-482537/5**  
**Matrix: Water**  
**Analysis Batch: 482537**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1-Trichloroethane	25.0	27.4		ug/L		110	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.7		ug/L		107	61 - 148
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	76 - 122
1,1-Dichloroethane	25.0	24.9		ug/L		100	77 - 120
1,1-Dichloroethene	25.0	24.7		ug/L		99	66 - 127
1,2,3-Trichlorobenzene	25.0	26.7		ug/L		107	75 - 123
1,2,4-Trichlorobenzene	25.0	27.8		ug/L		111	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	30.7		ug/L		123	56 - 134
1,2-Dibromoethane	25.0	26.8		ug/L		107	77 - 120
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	80 - 124
1,2-Dichloroethane	25.0	25.9		ug/L		104	75 - 120
1,2-Dichloropropane	25.0	24.7		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	24.9		ug/L		100	80 - 120
1,4-Dioxane	500	550		ug/L		110	50 - 150
2-Butanone (MEK)	125	145		ug/L		116	57 - 140
2-Hexanone	125	147		ug/L		118	65 - 127
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	71 - 125
Acetone	125	176		ug/L		141	56 - 142
Benzene	25.0	23.9		ug/L		96	71 - 124
Bromochloromethane	25.0	25.6		ug/L		102	72 - 130
Bromodichloromethane	25.0	29.0		ug/L		116	80 - 122
Bromoform	25.0	35.8	*	ug/L		143	61 - 132
Bromomethane	25.0	19.0		ug/L		76	55 - 144
Carbon disulfide	25.0	25.5		ug/L		102	59 - 134
Carbon tetrachloride	25.0	28.8		ug/L		115	72 - 134
Chlorobenzene	25.0	25.0		ug/L		100	80 - 120
Chloroethane	25.0	17.8		ug/L		71	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	20.5		ug/L		82	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	74 - 124

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: LCS 480-482537/5**  
**Matrix: Water**  
**Analysis Batch: 482537**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	25.0	25.7		ug/L		103	59 - 135
Dibromochloromethane	25.0	33.0	*	ug/L		132	75 - 125
Dichlorodifluoromethane	25.0	18.1		ug/L		73	59 - 135
Ethylbenzene	25.0	25.2		ug/L		101	77 - 123
Isopropylbenzene	25.0	24.8		ug/L		99	77 - 122
Methyl acetate	50.0	49.6		ug/L		99	74 - 133
Methyl tert-butyl ether	25.0	24.6		ug/L		98	77 - 120
Methylcyclohexane	25.0	25.5		ug/L		102	68 - 134
Methylene Chloride	25.0	27.2		ug/L		109	75 - 124
Styrene	25.0	24.7		ug/L		99	80 - 120
Tetrachloroethene	25.0	28.2		ug/L		113	74 - 122
Toluene	25.0	24.3		ug/L		97	80 - 122
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	73 - 127
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	80 - 120
Trichloroethene	25.0	24.3		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	20.2		ug/L		81	62 - 150
Vinyl chloride	25.0	20.2		ug/L		81	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		77 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	98		80 - 120

**Lab Sample ID: 480-156213-14 MS**  
**Matrix: Water**  
**Analysis Batch: 482537**

**Client Sample ID: 356023-MW6B**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	8.2	F1	25.0	40.3	F1	ug/L		128	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	28.8		ug/L		115	61 - 148
1,1,2-Trichloroethane	ND		25.0	25.7		ug/L		103	76 - 122
1,1-Dichloroethane	ND		25.0	28.0		ug/L		112	77 - 120
1,1-Dichloroethene	1.8		25.0	31.3		ug/L		118	66 - 127
1,2,3-Trichlorobenzene	ND		25.0	27.7		ug/L		111	75 - 123
1,2,4-Trichlorobenzene	ND		25.0	27.6		ug/L		111	79 - 122
1,2-Dibromo-3-Chloropropane	ND	F1	25.0	32.4		ug/L		129	56 - 134
1,2-Dibromoethane	ND		25.0	27.0		ug/L		108	77 - 120
1,2-Dichlorobenzene	ND		25.0	26.4		ug/L		106	80 - 124
1,2-Dichloroethane	ND		25.0	27.8		ug/L		111	75 - 120
1,2-Dichloropropane	ND		25.0	26.9		ug/L		108	76 - 120
1,3-Dichlorobenzene	ND		25.0	26.1		ug/L		105	77 - 120
1,4-Dichlorobenzene	ND		25.0	26.0		ug/L		104	78 - 124
1,4-Dioxane	ND		500	499		ug/L		100	50 - 150
2-Butanone (MEK)	ND		125	140		ug/L		112	57 - 140
2-Hexanone	ND		125	140		ug/L		112	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	133		ug/L		107	71 - 125

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-156213-14 MS**  
**Matrix: Water**  
**Analysis Batch: 482537**

**Client Sample ID: 356023-MW6B**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		125	158		ug/L		126	56 - 142
Benzene	ND		25.0	26.1		ug/L		104	71 - 124
Bromochloromethane	ND		25.0	28.2		ug/L		113	72 - 130
Bromodichloromethane	ND	F1	25.0	31.0	F1	ug/L		124	80 - 122
Bromoform	ND	* F1	25.0	33.5	F1	ug/L		134	61 - 132
Bromomethane	ND		25.0	22.9		ug/L		92	55 - 144
Carbon disulfide	ND		25.0	27.6		ug/L		110	59 - 134
Carbon tetrachloride	ND		25.0	33.3		ug/L		133	72 - 134
Chlorobenzene	ND		25.0	26.2		ug/L		105	80 - 120
Chloroethane	ND		25.0	22.8		ug/L		91	69 - 136
Chloroform	ND		25.0	27.1		ug/L		108	73 - 127
Chloromethane	ND		25.0	24.5		ug/L		98	68 - 124
cis-1,2-Dichloroethene	ND		25.0	27.2		ug/L		109	74 - 124
cis-1,3-Dichloropropene	ND		25.0	25.9		ug/L		104	74 - 124
Cyclohexane	ND		25.0	28.0		ug/L		112	59 - 135
Dibromochloromethane	ND	* F1	25.0	32.8	F1	ug/L		131	75 - 125
Dichlorodifluoromethane	ND		25.0	21.1		ug/L		85	59 - 135
Ethylbenzene	ND		25.0	26.6		ug/L		107	77 - 123
Isopropylbenzene	ND		25.0	26.5		ug/L		106	77 - 122
Methyl acetate	ND		50.0	48.9		ug/L		98	74 - 133
Methyl tert-butyl ether	ND		25.0	25.5		ug/L		102	77 - 120
Methylcyclohexane	ND		25.0	27.8		ug/L		111	68 - 134
Methylene Chloride	ND		25.0	28.0		ug/L		112	75 - 124
Styrene	ND		25.0	26.0		ug/L		104	80 - 120
Tetrachloroethene	ND	F1	25.0	30.0		ug/L		120	74 - 122
Toluene	ND		25.0	25.9		ug/L		104	80 - 122
trans-1,2-Dichloroethene	ND		25.0	28.4		ug/L		114	73 - 127
trans-1,3-Dichloropropene	ND		25.0	25.3		ug/L		101	80 - 120
Trichloroethene	ND		25.0	28.0		ug/L		112	74 - 123
Trichlorofluoromethane	ND		25.0	25.4		ug/L		102	62 - 150
Vinyl chloride	ND		25.0	25.7		ug/L		103	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123
Toluene-d8 (Surr)	96		80 - 120

**Lab Sample ID: 480-156213-14 MSD**  
**Matrix: Water**  
**Analysis Batch: 482537**

**Client Sample ID: 356023-MW6B**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	8.2	F1	25.0	39.9	F1	ug/L		127	73 - 126	1	15
1,1,1,2-Tetrachloroethane	ND		25.0	26.2		ug/L		105	76 - 120	0	15
1,1,2-Trichloro-1,1,2,2-trifluoroethane	ND		25.0	28.1		ug/L		112	61 - 148	2	20
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	76 - 122	1	15
1,1-Dichloroethane	ND		25.0	27.9		ug/L		112	77 - 120	0	20

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-156213-14 MSD**

**Matrix: Water**

**Analysis Batch: 482537**

**Client Sample ID: 356023-MW6B**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	1.8		25.0	30.4		ug/L		114	66 - 127	3	16
1,2,3-Trichlorobenzene	ND		25.0	28.0		ug/L		112	75 - 123	1	20
1,2,4-Trichlorobenzene	ND		25.0	28.3		ug/L		113	79 - 122	2	20
1,2-Dibromo-3-Chloropropane	ND	F1	25.0	33.9	F1	ug/L		136	56 - 134	5	15
1,2-Dibromoethane	ND		25.0	27.6		ug/L		110	77 - 120	2	15
1,2-Dichlorobenzene	ND		25.0	26.6		ug/L		106	80 - 124	1	20
1,2-Dichloroethane	ND		25.0	27.3		ug/L		109	75 - 120	2	20
1,2-Dichloropropane	ND		25.0	26.2		ug/L		105	76 - 120	3	20
1,3-Dichlorobenzene	ND		25.0	26.4		ug/L		105	77 - 120	1	20
1,4-Dichlorobenzene	ND		25.0	26.0		ug/L		104	78 - 124	0	20
1,4-Dioxane	ND		500	559		ug/L		112	50 - 150	11	20
2-Butanone (MEK)	ND		125	143		ug/L		115	57 - 140	3	20
2-Hexanone	ND		125	144		ug/L		115	65 - 127	3	15
4-Methyl-2-pentanone (MIBK)	ND		125	137		ug/L		109	71 - 125	2	35
Acetone	ND		125	155		ug/L		124	56 - 142	2	15
Benzene	ND		25.0	26.1		ug/L		104	71 - 124	0	13
Bromochloromethane	ND		25.0	27.5		ug/L		110	72 - 130	3	15
Bromodichloromethane	ND	F1	25.0	31.3	F1	ug/L		125	80 - 122	1	15
Bromoform	ND	* F1	25.0	34.9	F1	ug/L		140	61 - 132	4	15
Bromomethane	ND		25.0	22.3		ug/L		89	55 - 144	3	15
Carbon disulfide	ND		25.0	27.3		ug/L		109	59 - 134	1	15
Carbon tetrachloride	ND		25.0	33.5		ug/L		134	72 - 134	1	15
Chlorobenzene	ND		25.0	26.5		ug/L		106	80 - 120	1	25
Chloroethane	ND		25.0	23.9		ug/L		96	69 - 136	5	15
Chloroform	ND		25.0	26.8		ug/L		107	73 - 127	1	20
Chloromethane	ND		25.0	23.9		ug/L		96	68 - 124	2	15
cis-1,2-Dichloroethene	ND		25.0	26.7		ug/L		107	74 - 124	2	15
cis-1,3-Dichloropropene	ND		25.0	26.0		ug/L		104	74 - 124	0	15
Cyclohexane	ND		25.0	27.7		ug/L		111	59 - 135	1	20
Dibromochloromethane	ND	* F1	25.0	33.7	F1	ug/L		135	75 - 125	3	15
Dichlorodifluoromethane	ND		25.0	20.7		ug/L		83	59 - 135	2	20
Ethylbenzene	ND		25.0	27.2		ug/L		109	77 - 123	2	15
Isopropylbenzene	ND		25.0	26.8		ug/L		107	77 - 122	1	20
Methyl acetate	ND		50.0	48.9		ug/L		98	74 - 133	0	20
Methyl tert-butyl ether	ND		25.0	25.6		ug/L		103	77 - 120	0	37
Methylcyclohexane	ND		25.0	27.4		ug/L		109	68 - 134	2	20
Methylene Chloride	ND		25.0	26.9		ug/L		108	75 - 124	4	15
Styrene	ND		25.0	26.5		ug/L		106	80 - 120	2	20
Tetrachloroethene	ND	F1	25.0	30.7	F1	ug/L		123	74 - 122	2	20
Toluene	ND		25.0	26.2		ug/L		105	80 - 122	1	15
trans-1,2-Dichloroethene	ND		25.0	28.7		ug/L		115	73 - 127	1	20
trans-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	80 - 120	2	15
Trichloroethene	ND		25.0	27.0		ug/L		108	74 - 123	3	16
Trichlorofluoromethane	ND		25.0	25.2		ug/L		101	62 - 150	1	20
Vinyl chloride	ND		25.0	25.6		ug/L		102	65 - 133	1	15

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		77 - 120

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

**Lab Sample ID: 480-156213-14 MSD**  
**Matrix: Water**  
**Analysis Batch: 482537**

**Client Sample ID: 356023-MW6B**  
**Prep Type: Total/NA**

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123
Toluene-d8 (Surr)	98		80 - 120

## Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

**Lab Sample ID: MB 480-482507/1-A**  
**Matrix: Water**  
**Analysis Batch: 482664**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 482507**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		0.20	0.10	ug/L		07/17/19 15:17	07/18/19 19:44	1
Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
1,4-Dioxane-d8	38		15 - 110	07/17/19 15:17	07/18/19 19:44	1			

**Lab Sample ID: LCS 480-482507/2-A**  
**Matrix: Water**  
**Analysis Batch: 482664**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 482507**  
**%Rec.**

Analyte	LCS LCS		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
	%Recovery	Qualifier							
1,4-Dioxane			1.00	1.15		ug/L		115	40 - 140
Isotope Dilution	LCS LCS		Limits						
	%Recovery	Qualifier							
1,4-Dioxane-d8	34		15 - 110						

**Lab Sample ID: 480-156213-14 MS**  
**Matrix: Water**  
**Analysis Batch: 482664**

**Client Sample ID: 356023-MW6B**  
**Prep Type: Total/NA**  
**Prep Batch: 482507**  
**%Rec.**

Analyte	Sample Sample		Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
	Result	Qualifier							
1,4-Dioxane	0.76		1.00	1.93	E	ug/L		117	40 - 140
Isotope Dilution	MS MS		Limits						
	%Recovery	Qualifier							
1,4-Dioxane-d8	34		15 - 110						

**Lab Sample ID: 480-156213-14 MSD**  
**Matrix: Water**  
**Analysis Batch: 482664**

**Client Sample ID: 356023-MW6B**  
**Prep Type: Total/NA**  
**Prep Batch: 482507**  
**%Rec.**

Analyte	Sample Sample		Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier									
1,4-Dioxane	0.76		1.00	1.90	E	ug/L		114	40 - 140	2	20
Isotope Dilution	MSD MSD		Limits								
	%Recovery	Qualifier									
1,4-Dioxane-d8	38		15 - 110								

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 537 (modified) - Fluorinated Alkyl Substances

**Lab Sample ID: MB 200-145382/1-A**  
**Matrix: Water**  
**Analysis Batch: 145761**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 145382**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		2.0	1.0	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.63	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.77	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.53	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.49	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61	ng/L		07/23/19 10:21	08/02/19 03:57	1
Perfluorooctanesulfonamide (FOSA)	ND		10	10	ng/L		07/23/19 10:21	08/02/19 03:57	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7	ng/L		07/23/19 10:21	08/02/19 03:57	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5	ng/L		07/23/19 10:21	08/02/19 03:57	1
6:2 FTS	ND		20	4.6	ng/L		07/23/19 10:21	08/02/19 03:57	1
8:2 FTS	ND		20	2.9	ng/L		07/23/19 10:21	08/02/19 03:57	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C8 FOSA	73		25 - 150	07/23/19 10:21	08/02/19 03:57	1
13C4 PFBA	94		25 - 150	07/23/19 10:21	08/02/19 03:57	1
13C5 PFPeA	92		25 - 150	07/23/19 10:21	08/02/19 03:57	1
13C2 PFHxA	95		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C4 PFHpA	93		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C4 PFOA	89		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C5 PFNA	94		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C2 PFDA	102		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C2 PFUnA	94		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C2 PFDoA	96		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C2 PFTeDA	65		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C3 PFBS	90		50 - 150	07/23/19 10:21	08/02/19 03:57	1
18O2 PFHxS	89		50 - 150	07/23/19 10:21	08/02/19 03:57	1
13C4 PFOS	90		50 - 150	07/23/19 10:21	08/02/19 03:57	1
d3-NMeFOSAA	82		50 - 150	07/23/19 10:21	08/02/19 03:57	1
d5-NEtFOSAA	79		50 - 150	07/23/19 10:21	08/02/19 03:57	1
M2-6:2 FTS	101		25 - 150	07/23/19 10:21	08/02/19 03:57	1
M2-8:2 FTS	111		25 - 150	07/23/19 10:21	08/02/19 03:57	1

# QC Sample Results

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 200-145382/2-A**  
**Matrix: Water**  
**Analysis Batch: 145761**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 145382**  
**%Rec.**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	41.6		ng/L		104	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	39.5		ng/L		99	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	40.7		ng/L		102	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	43.2		ng/L		108	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	42.8		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	40.0	42.0		ng/L		105	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	40.8		ng/L		102	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	41.6		ng/L		104	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	42.4		ng/L		106	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	45.0		ng/L		112	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	48.5		ng/L		121	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	36.5		ng/L		103	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.2		ng/L		99	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.0		ng/L		102	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	34.9		ng/L		90	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	40.9		ng/L		110	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	42.1		ng/L		105	50 - 150
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	40.0	51.4		ng/L		128	70 - 130
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	40.0	52.6 *		ng/L		132	70 - 130
6:2 FTS	37.9	32.5		ng/L		86	50 - 150
8:2 FTS	38.3	26.1		ng/L		68	50 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C8 FOSA	70		25 - 150
13C4 PFBA	104		25 - 150
13C5 PFPeA	102		25 - 150
13C2 PFHxA	100		50 - 150
13C4 PFHpA	100		50 - 150
13C4 PFOA	87		50 - 150
13C5 PFNA	104		50 - 150
13C2 PFDA	104		50 - 150
13C2 PFUnA	93		50 - 150
13C2 PFDoA	79		50 - 150
13C2 PFTeA	59		50 - 150
13C3 PFBS	96		50 - 150
18O2 PFHxS	93		50 - 150
13C4 PFOS	99		50 - 150
d3-NMeFOSAA	76		50 - 150
d5-NEtFOSAA	71		50 - 150



# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: LCS 200-145382/2-A**

**Matrix: Water**

**Analysis Batch: 145761**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 145382**

<i>Isotope Dilution</i>	<b>LCS LCS</b>		<i>Limits</i>
	<b>%Recovery</b>	<b>Qualifier</b>	
M2-6:2 FTS	102		25 - 150
M2-8:2 FTS	117		25 - 150

**Lab Sample ID: 480-156213-14 MS**

**Matrix: Water**

**Analysis Batch: 145761**

**Client Sample ID: 356023-MW6B**

**Prep Type: Total/NA**

**Prep Batch: 145382**

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MS MS</b>		<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>Limits</b>
				<b>Result</b>	<b>Qualifier</b>				
Perfluorobutanoic acid (PFBA)	1.6	J	36.7	40.2		ng/L		105	40 - 160
Perfluoropentanoic acid (PFPeA)	2.0		36.7	38.9		ng/L		101	40 - 160
Perfluorohexanoic acid (PFHxA)	1.5	J	36.7	38.3		ng/L		100	40 - 160
Perfluoroheptanoic acid (PFHpA)	ND		36.7	41.0		ng/L		112	40 - 160
Perfluorooctanoic acid (PFOA)	0.92	J	36.7	37.9		ng/L		101	40 - 160
Perfluorononanoic acid (PFNA)	ND		36.7	36.9		ng/L		101	40 - 160
Perfluorodecanoic acid (PFDA)	ND		36.7	39.5		ng/L		108	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND		36.7	35.6		ng/L		97	40 - 160
Perfluorododecanoic acid (PFDoA)	ND		36.7	37.8		ng/L		103	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		36.7	42.7		ng/L		116	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		36.7	44.5		ng/L		121	40 - 160
Perfluorobutanesulfonic acid (PFBS)	ND		32.4	32.5		ng/L		100	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	ND		33.4	33.4		ng/L		100	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	ND		34.9	38.3		ng/L		110	40 - 160
Perfluorodecanesulfonic acid (PFDS)	ND		35.4	35.1		ng/L		99	40 - 160
Perfluorooctanesulfonic acid (PFOS)	ND		34.0	38.4		ng/L		113	40 - 160
Perfluorooctanesulfonamide (FOSA)	ND		36.7	42.6		ng/L		116	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		36.7	43.6		ng/L		119	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	36.7	45.7		ng/L		125	40 - 160
6:2 FTS	ND		34.8	26.9		ng/L		77	40 - 160
8:2 FTS	ND		35.1	25.6		ng/L		73	40 - 160

<i>Isotope Dilution</i>	<b>MS MS</b>		<i>Limits</i>
	<b>%Recovery</b>	<b>Qualifier</b>	
13C8 FOSA	74		25 - 150
13C4 PFBA	82		25 - 150
13C5 PFPeA	88		25 - 150
13C2 PFHxA	88		50 - 150
13C4 PFHpA	90		50 - 150
13C4 PFOA	85		50 - 150
13C5 PFNA	86		50 - 150
13C2 PFDA	87		50 - 150
13C2 PFUnA	86		50 - 150

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

**Lab Sample ID: 480-156213-14 MS**  
**Matrix: Water**  
**Analysis Batch: 145761**

**Client Sample ID: 356023-MW6B**  
**Prep Type: Total/NA**  
**Prep Batch: 145382**

<i>Isotope Dilution</i>	<i>MS</i>	<i>MS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C2 PFDoA	83		50 - 150
13C2 PFTeDA	67		50 - 150
13C3 PFBS	93		50 - 150
18O2 PFHxS	94		50 - 150
13C4 PFOS	89		50 - 150
d3-NMeFOSAA	64		50 - 150
d5-NEtFOSAA	67		50 - 150
M2-6:2 FTS	104		25 - 150
M2-8:2 FTS	111		25 - 150

**Lab Sample ID: 480-156213-14 MSD**  
**Matrix: Water**  
**Analysis Batch: 145761**

**Client Sample ID: 356023-MW6B**  
**Prep Type: Total/NA**  
**Prep Batch: 145382**

<i>Analyte</i>	<i>Sample</i>	<i>Sample</i>	<i>Spike</i>	<i>MSD</i>	<i>MSD</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	<i>RPD</i>	<i>RPD</i>
	<i>Result</i>	<i>Qualifier</i>	<i>Added</i>	<i>Result</i>	<i>Qualifier</i>				<i>Limits</i>	<i>Limit</i>	
Perfluorobutanoic acid (PFBA)	1.6	J	34.7	38.4		ng/L		106	40 - 160	5	30
Perfluoropentanoic acid (PFPeA)	2.0		34.7	39.1		ng/L		107	40 - 160	0	30
Perfluorohexanoic acid (PFHxA)	1.5	J	34.7	38.0		ng/L		105	40 - 160	1	20
Perfluoroheptanoic acid (PFHpA)	ND		34.7	38.5		ng/L		111	40 - 160	6	20
Perfluorooctanoic acid (PFOA)	0.92	J	34.7	39.7		ng/L		112	40 - 160	5	20
Perfluorononanoic acid (PFNA)	ND		34.7	39.3		ng/L		113	40 - 160	6	20
Perfluorodecanoic acid (PFDA)	ND		34.7	39.1		ng/L		112	40 - 160	1	20
Perfluoroundecanoic acid (PFUnA)	ND		34.7	33.6		ng/L		97	40 - 160	6	20
Perfluorododecanoic acid (PFDoA)	ND		34.7	35.3		ng/L		102	40 - 160	7	20
Perfluorotridecanoic acid (PFTriA)	ND		34.7	34.9		ng/L		100	40 - 160	20	20
Perfluorotetradecanoic acid (PFTeA)	ND		34.7	43.5		ng/L		125	40 - 160	2	20
Perfluorobutanesulfonic acid (PFBS)	ND		30.7	30.1		ng/L		98	40 - 160	8	20
Perfluorohexanesulfonic acid (PFHxS)	ND		31.6	33.8		ng/L		107	40 - 160	1	20
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.1	40.9		ng/L		124	40 - 160	7	30
Perfluorodecanesulfonic acid (PFDS)	ND		33.5	34.1		ng/L		102	40 - 160	3	30
Perfluorooctanesulfonic acid (PFOS)	ND		32.2	37.3		ng/L		116	40 - 160	3	20
Perfluorooctanesulfonamide (FOSA)	ND		34.7	41.4		ng/L		119	40 - 160	3	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		34.7	43.0		ng/L		124	40 - 160	1	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	34.7	43.5		ng/L		125	40 - 160	5	20
6:2 FTS	ND		32.9	25.4		ng/L		77	40 - 160	6	30
8:2 FTS	ND		33.3	25.6		ng/L		77	40 - 160	0	30

<i>Isotope Dilution</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C8 FOSA	71		25 - 150
13C4 PFBA	83		25 - 150

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-156213-14 MSD

Matrix: Water

Analysis Batch: 145761

Client Sample ID: 356023-MW6B

Prep Type: Total/NA

Prep Batch: 145382

<i>Isotope Dilution</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
13C5 PFPeA	86		25 - 150
13C2 PFHxA	89		50 - 150
13C4 PFHpA	92		50 - 150
13C4 PFOA	81		50 - 150
13C5 PFNA	83		50 - 150
13C2 PFDA	85		50 - 150
13C2 PFUnA	80		50 - 150
13C2 PFDoA	87		50 - 150
13C2 PFTeDA	63		50 - 150
13C3 PFBS	101		50 - 150
18O2 PFHxS	90		50 - 150
13C4 PFOS	86		50 - 150
d3-NMeFOSAA	64		50 - 150
d5-NEtFOSAA	65		50 - 150
M2-6:2 FTS	109		25 - 150
M2-8:2 FTS	104		25 - 150

# QC Association Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## GC/MS VOA

### Analysis Batch: 482537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-1	356023-MW8B	Total/NA	Water	8260C	
480-156213-2	356023-MW8BD	Total/NA	Water	8260C	
480-156213-3	356023-MW16	Total/NA	Water	8260C	
480-156213-4	356023-MW14B 150	Total/NA	Water	8260C	
480-156213-5	356023-MW12B 190	Total/NA	Water	8260C	
480-156213-6	356023-MW11B	Total/NA	Water	8260C	
480-156213-7	356023-MW11C	Total/NA	Water	8260C	
480-156213-8	356023-MW1801	Total/NA	Water	8260C	
480-156213-9	356023-MW1802	Total/NA	Water	8260C	
480-156213-10	356023-MW1803	Total/NA	Water	8260C	
480-156213-11	356023-MW5B	Total/NA	Water	8260C	
480-156213-12	356023-ERT4	Total/NA	Water	8260C	
480-156213-13	356023-MW4	Total/NA	Water	8260C	
480-156213-14	356023-MW6B	Total/NA	Water	8260C	
480-156213-15	356023-MW15B	Total/NA	Water	8260C	
480-156213-16	356023-EB1	Total/NA	Water	8260C	
480-156213-17	356023-MW1B	Total/NA	Water	8260C	
480-156213-18	356023-MW5R	Total/NA	Water	8260C	
480-156213-19	356023-MW7R	Total/NA	Water	8260C	
480-156213-20	356023-TB1	Total/NA	Water	8260C	
MB 480-482537/7	Method Blank	Total/NA	Water	8260C	
LCS 480-482537/5	Lab Control Sample	Total/NA	Water	8260C	
480-156213-14 MS	356023-MW6B	Total/NA	Water	8260C	
480-156213-14 MSD	356023-MW6B	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 482507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-1	356023-MW8B	Total/NA	Water	3510C	
480-156213-2	356023-MW8BD	Total/NA	Water	3510C	
480-156213-3	356023-MW16	Total/NA	Water	3510C	
480-156213-4	356023-MW14B 150	Total/NA	Water	3510C	
480-156213-5	356023-MW12B 190	Total/NA	Water	3510C	
480-156213-6	356023-MW11B	Total/NA	Water	3510C	
480-156213-7	356023-MW11C	Total/NA	Water	3510C	
480-156213-8	356023-MW1801	Total/NA	Water	3510C	
480-156213-9	356023-MW1802	Total/NA	Water	3510C	
480-156213-10	356023-MW1803	Total/NA	Water	3510C	
480-156213-11	356023-MW5B	Total/NA	Water	3510C	
480-156213-12	356023-ERT4	Total/NA	Water	3510C	
480-156213-13	356023-MW4	Total/NA	Water	3510C	
480-156213-14	356023-MW6B	Total/NA	Water	3510C	
480-156213-15	356023-MW15B	Total/NA	Water	3510C	
480-156213-16	356023-EB1	Total/NA	Water	3510C	
480-156213-17	356023-MW1B	Total/NA	Water	3510C	
480-156213-18	356023-MW5R	Total/NA	Water	3510C	
480-156213-19	356023-MW7R	Total/NA	Water	3510C	
MB 480-482507/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-482507/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-156213-14 MS	356023-MW6B	Total/NA	Water	3510C	

# QC Association Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 482507 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-14 MSD	356023-MW6B	Total/NA	Water	3510C	

### Analysis Batch: 482664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-1	356023-MW8B	Total/NA	Water	8270D SIM ID	482507
480-156213-2	356023-MW8BD	Total/NA	Water	8270D SIM ID	482507
480-156213-14	356023-MW6B	Total/NA	Water	8270D SIM ID	482507
MB 480-482507/1-A	Method Blank	Total/NA	Water	8270D SIM ID	482507
LCS 480-482507/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	482507
480-156213-14 MS	356023-MW6B	Total/NA	Water	8270D SIM ID	482507
480-156213-14 MSD	356023-MW6B	Total/NA	Water	8270D SIM ID	482507

### Analysis Batch: 482665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-7	356023-MW11C	Total/NA	Water	8270D SIM ID	482507
480-156213-8	356023-MW1801	Total/NA	Water	8270D SIM ID	482507
480-156213-9	356023-MW1802	Total/NA	Water	8270D SIM ID	482507
480-156213-10	356023-MW1803	Total/NA	Water	8270D SIM ID	482507
480-156213-16	356023-EB1	Total/NA	Water	8270D SIM ID	482507
480-156213-17	356023-MW1B	Total/NA	Water	8270D SIM ID	482507
480-156213-19	356023-MW7R	Total/NA	Water	8270D SIM ID	482507

### Analysis Batch: 482965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-3	356023-MW16	Total/NA	Water	8270D SIM ID	482507
480-156213-4	356023-MW14B 150	Total/NA	Water	8270D SIM ID	482507
480-156213-5	356023-MW12B 190	Total/NA	Water	8270D SIM ID	482507
480-156213-6	356023-MW11B	Total/NA	Water	8270D SIM ID	482507
480-156213-11	356023-MW5B	Total/NA	Water	8270D SIM ID	482507
480-156213-12	356023-ERT4	Total/NA	Water	8270D SIM ID	482507
480-156213-13	356023-MW4	Total/NA	Water	8270D SIM ID	482507
480-156213-15	356023-MW15B	Total/NA	Water	8270D SIM ID	482507
480-156213-18	356023-MW5R	Total/NA	Water	8270D SIM ID	482507

## LCMS

### Prep Batch: 145382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-1	356023-MW8B	Total/NA	Water	3535	
480-156213-2	356023-MW8BD	Total/NA	Water	3535	
480-156213-3	356023-MW16	Total/NA	Water	3535	
480-156213-4	356023-MW14B 150	Total/NA	Water	3535	
480-156213-5	356023-MW12B 190	Total/NA	Water	3535	
480-156213-6	356023-MW11B	Total/NA	Water	3535	
480-156213-7	356023-MW11C	Total/NA	Water	3535	
480-156213-11	356023-MW5B	Total/NA	Water	3535	
480-156213-12	356023-ERT4	Total/NA	Water	3535	
480-156213-13	356023-MW4	Total/NA	Water	3535	
480-156213-14	356023-MW6B	Total/NA	Water	3535	
480-156213-15	356023-MW15B	Total/NA	Water	3535	
480-156213-16	356023-EB1	Total/NA	Water	3535	

# QC Association Summary

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## LCMS (Continued)

### Prep Batch: 145382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-17	356023-MW1B	Total/NA	Water	3535	
480-156213-18	356023-MW5R	Total/NA	Water	3535	
480-156213-19	356023-MW7R	Total/NA	Water	3535	
MB 200-145382/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-145382/2-A	Lab Control Sample	Total/NA	Water	3535	
480-156213-14 MS	356023-MW6B	Total/NA	Water	3535	
480-156213-14 MSD	356023-MW6B	Total/NA	Water	3535	

### Analysis Batch: 145761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-156213-1	356023-MW8B	Total/NA	Water	537 (modified)	145382
480-156213-2	356023-MW8BD	Total/NA	Water	537 (modified)	145382
480-156213-3	356023-MW16	Total/NA	Water	537 (modified)	145382
480-156213-4	356023-MW14B 150	Total/NA	Water	537 (modified)	145382
480-156213-5	356023-MW12B 190	Total/NA	Water	537 (modified)	145382
480-156213-6	356023-MW11B	Total/NA	Water	537 (modified)	145382
480-156213-7	356023-MW11C	Total/NA	Water	537 (modified)	145382
480-156213-11	356023-MW5B	Total/NA	Water	537 (modified)	145382
480-156213-12	356023-ERT4	Total/NA	Water	537 (modified)	145382
480-156213-13	356023-MW4	Total/NA	Water	537 (modified)	145382
480-156213-14	356023-MW6B	Total/NA	Water	537 (modified)	145382
480-156213-15	356023-MW15B	Total/NA	Water	537 (modified)	145382
480-156213-16	356023-EB1	Total/NA	Water	537 (modified)	145382
480-156213-17	356023-MW1B	Total/NA	Water	537 (modified)	145382
480-156213-18	356023-MW5R	Total/NA	Water	537 (modified)	145382
480-156213-19	356023-MW7R	Total/NA	Water	537 (modified)	145382
MB 200-145382/1-A	Method Blank	Total/NA	Water	537 (modified)	145382
LCS 200-145382/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	145382
480-156213-14 MS	356023-MW6B	Total/NA	Water	537 (modified)	145382
480-156213-14 MSD	356023-MW6B	Total/NA	Water	537 (modified)	145382

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW8B**

**Lab Sample ID: 480-156213-1**

**Date Collected: 07/09/19 13:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/17/19 22:23	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482664	07/18/19 21:43	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 04:13	JM1	TAL BUR

**Client Sample ID: 356023-MW8BD**

**Lab Sample ID: 480-156213-2**

**Date Collected: 07/09/19 13:20**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/17/19 22:47	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482664	07/18/19 22:07	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 04:21	JM1	TAL BUR

**Client Sample ID: 356023-MW16**

**Lab Sample ID: 480-156213-3**

**Date Collected: 07/09/19 17:10**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/17/19 23:11	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	482965	07/21/19 17:29	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 04:29	JM1	TAL BUR

**Client Sample ID: 356023-MW14B 150**

**Lab Sample ID: 480-156213-4**

**Date Collected: 07/09/19 11:50**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/17/19 23:35	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	482965	07/21/19 17:53	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 04:37	JM1	TAL BUR

**Client Sample ID: 356023-MW12B 190**

**Lab Sample ID: 480-156213-5**

**Date Collected: 07/09/19 17:27**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/17/19 23:59	RJF	TAL BUF

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW12B 190**

**Lab Sample ID: 480-156213-5**

Date Collected: 07/09/19 17:27

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		10	482965	07/21/19 18:17	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 04:45	JM1	TAL BUR

**Client Sample ID: 356023-MW11B**

**Lab Sample ID: 480-156213-6**

Date Collected: 07/10/19 11:37

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 00:23	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	482965	07/21/19 18:40	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 04:53	JM1	TAL BUR

**Client Sample ID: 356023-MW11C**

**Lab Sample ID: 480-156213-7**

Date Collected: 07/10/19 15:23

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 00:47	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482665	07/19/19 01:24	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 05:01	JM1	TAL BUR

**Client Sample ID: 356023-MW1801**

**Lab Sample ID: 480-156213-8**

Date Collected: 07/11/19 11:10

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 01:11	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482665	07/19/19 01:48	RJS	TAL BUF

**Client Sample ID: 356023-MW1802**

**Lab Sample ID: 480-156213-9**

Date Collected: 07/11/19 11:20

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 01:35	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482665	07/19/19 02:11	RJS	TAL BUF



# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Client Sample ID: 356023-MW1803

## Lab Sample ID: 480-156213-10

Date Collected: 07/11/19 11:30

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 01:59	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482665	07/19/19 02:35	RJS	TAL BUF

## Client Sample ID: 356023-MW5B

## Lab Sample ID: 480-156213-11

Date Collected: 07/11/19 13:10

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	482537	07/18/19 02:23	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		10	482965	07/21/19 19:04	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 05:09	JM1	TAL BUR

## Client Sample ID: 356023-ERT4

## Lab Sample ID: 480-156213-12

Date Collected: 07/11/19 11:20

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	482537	07/18/19 02:47	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		10	482965	07/21/19 19:28	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 05:25	JM1	TAL BUR

## Client Sample ID: 356023-MW4

## Lab Sample ID: 480-156213-13

Date Collected: 07/11/19 14:47

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	482537	07/18/19 03:11	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	482965	07/21/19 19:51	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 05:33	JM1	TAL BUR

## Client Sample ID: 356023-MW6B

## Lab Sample ID: 480-156213-14

Date Collected: 07/11/19 13:15

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 03:34	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482664	07/18/19 21:19	RJS	TAL BUF

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Client Sample ID: 356023-MW6B

Lab Sample ID: 480-156213-14

Date Collected: 07/11/19 13:15

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 05:41	JM1	TAL BUR

## Client Sample ID: 356023-MW15B

Lab Sample ID: 480-156213-15

Date Collected: 07/12/19 09:30

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 03:58	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	482965	07/21/19 20:15	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 06:06	JM1	TAL BUR

## Client Sample ID: 356023-EB1

Lab Sample ID: 480-156213-16

Date Collected: 07/12/19 09:45

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 04:22	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482665	07/19/19 04:32	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 06:14	JM1	TAL BUR

## Client Sample ID: 356023-MW1B

Lab Sample ID: 480-156213-17

Date Collected: 07/12/19 11:15

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 04:46	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482665	07/19/19 04:56	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 06:22	JM1	TAL BUR

## Client Sample ID: 356023-MW5R

Lab Sample ID: 480-156213-18

Date Collected: 07/12/19 11:10

Matrix: Water

Date Received: 07/13/19 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	482537	07/18/19 05:09	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	482965	07/21/19 20:38	RJS	TAL BUF

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

**Client Sample ID: 356023-MW5R**

**Lab Sample ID: 480-156213-18**

**Date Collected: 07/12/19 11:10**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 06:30	JM1	TAL BUR

**Client Sample ID: 356023-MW7R**

**Lab Sample ID: 480-156213-19**

**Date Collected: 07/12/19 11:30**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 05:34	RJF	TAL BUF
Total/NA	Prep	3510C			482507	07/17/19 15:17	ATG	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	482665	07/19/19 05:43	RJS	TAL BUF
Total/NA	Prep	3535			145382	07/23/19 10:21	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	145761	08/02/19 06:38	JM1	TAL BUR

**Client Sample ID: 356023-TB1**

**Lab Sample ID: 480-156213-20**

**Date Collected: 07/09/19 12:00**

**Matrix: Water**

**Date Received: 07/13/19 09:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	482537	07/18/19 05:57	RJF	TAL BUF

**Laboratory References:**

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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

# Accreditation/Certification Summary

Client: New York State D.E.C.  
 Project/Site: Mohonk Rd. #356023 Groundwaters

Job ID: 480-156213-1

## Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-20

## Laboratory: Eurofins TestAmerica, Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP		L2336	02-25-20
ANAB	DoD		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-20
Florida	NELAP	4	E87467	06-30-20
Florida	NELAP		E87467	06-01-20
Minnesota	NELAP	5	050-999-436	12-31-19
New Hampshire	NELAP	1	2006	12-18-19
New Jersey	NELAP	2	VT972	06-30-20
New Jersey	NELAP		VT972	06-30-20
New York	NELAP	2	10391	04-01-20
New York	NELAP		<cert No.>	03-31-20
Pennsylvania	NELAP	3	68-00489	04-30-20
Pennsylvania	NELAP		68-00489	04-30-20
Rhode Island	State Program	1	LAO00298	12-30-19
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-19
Virginia	NELAP	3	460209	12-14-19

# Method 8260C

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

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
356023-MW8B	480-156213-1	104	101	97	107
356023-MW8BD	480-156213-2	105	101	97	106
356023-MW16	480-156213-3	103	99	97	105
356023-MW14B 150	480-156213-4	103	102	96	107
356023-MW12B 190	480-156213-5	107	105	96	105
356023-MW11B	480-156213-6	105	106	96	104
356023-MW11C	480-156213-7	103	103	95	106
356023-MW1801	480-156213-8	105	104	97	103
356023-MW1802	480-156213-9	104	103	97	106
356023-MW1803	480-156213-10	105	103	98	106
356023-MW5B	480-156213-11	108	104	98	108
356023-ERT4	480-156213-12	107	103	96	103
356023-MW4	480-156213-13	104	102	98	105
356023-MW6B	480-156213-14	104	100	97	105
356023-MW15B	480-156213-15	105	103	95	104
356023-EB1	480-156213-16	103	103	96	107
356023-MW1B	480-156213-17	104	102	96	103
356023-MW5R	480-156213-18	104	104	95	104
356023-MW7R	480-156213-19	107	104	97	107
356023-TB1	480-156213-20	102	101	96	105
	MB 480-482537/7	102	102	97	105
	LCS 480-482537/5	100	100	98	107
356023-MW6B MS	480-156213-14 MS	103	105	96	103
356023-MW6B MSD	480-156213-14 MSD	104	104	98	107

QC LIMITS

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

75-123  
77-120  
80-120  
73-120

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: T3127.D

Lab ID: LCS 480-482537/5 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.4	110	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.8	103	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.7	107	61-148	
1,1,2-Trichloroethane	25.0	26.0	104	76-122	
1,1-Dichloroethane	25.0	24.9	100	77-120	
1,1-Dichloroethene	25.0	24.7	99	66-127	
1,2,3-Trichlorobenzene	25.0	26.7	107	75-123	
1,2,4-Trichlorobenzene	25.0	27.8	111	79-122	
1,2-Dibromo-3-Chloropropane	25.0	30.7	123	56-134	
1,2-Dibromoethane	25.0	26.8	107	77-120	
1,2-Dichlorobenzene	25.0	25.4	102	80-124	
1,2-Dichloroethane	25.0	25.9	104	75-120	
1,2-Dichloropropane	25.0	24.7	99	76-120	
1,3-Dichlorobenzene	25.0	25.1	100	77-120	
1,4-Dichlorobenzene	25.0	24.9	100	80-120	
1,4-Dioxane	500	550	110	50-150	
2-Butanone (MEK)	125	145	116	57-140	
2-Hexanone	125	147	118	65-127	
4-Methyl-2-pentanone (MIBK)	125	136	109	71-125	
Acetone	125	176	141	56-142	
Benzene	25.0	23.9	96	71-124	
Bromochloromethane	25.0	25.6	102	72-130	
Bromodichloromethane	25.0	29.0	116	80-122	
Bromoform	25.0	35.8	143	61-132	*
Bromomethane	25.0	19.0	76	55-144	
Carbon disulfide	25.0	25.5	102	59-134	
Carbon tetrachloride	25.0	28.8	115	72-134	
Chlorobenzene	25.0	25.0	100	80-120	
Chloroethane	25.0	17.8	71	69-136	
Chloroform	25.0	24.3	97	73-127	
Chloromethane	25.0	20.5	82	68-124	
cis-1,2-Dichloroethene	25.0	24.6	99	74-124	
cis-1,3-Dichloropropene	25.0	25.2	101	74-124	
Cyclohexane	25.0	25.7	103	59-135	
Dibromochloromethane	25.0	33.0	132	75-125	*
Dichlorodifluoromethane	25.0	18.1	73	59-135	
Ethylbenzene	25.0	25.2	101	77-123	
Isopropylbenzene	25.0	24.8	99	77-122	
Methyl acetate	50.0	49.6	99	74-133	
Methyl tert-butyl ether	25.0	24.6	98	77-120	
Methylcyclohexane	25.0	25.5	102	68-134	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: T3127.D

Lab ID: LCS 480-482537/5 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	27.2	109	75-124	
Styrene	25.0	24.7	99	80-120	
Tetrachloroethene	25.0	28.2	113	74-122	
Toluene	25.0	24.3	97	80-122	
trans-1,2-Dichloroethene	25.0	25.0	100	73-127	
trans-1,3-Dichloropropene	25.0	26.0	104	80-120	
Trichloroethene	25.0	24.3	97	74-123	
Trichlorofluoromethane	25.0	20.2	81	62-150	
Vinyl chloride	25.0	20.2	81	65-133	

# Column to be used to flag recovery and RPD values



FORM III  
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

Lab File ID: T3150.D

Lab ID: 480-156213-14 MS

Client ID: 356023-MW6B MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	8.2	40.3	128	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	ND	26.3	105	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	ND	28.8	115	61-148	
1,1,2-Trichloroethane	25.0	ND	25.7	103	76-122	
1,1-Dichloroethane	25.0	ND	28.0	112	77-120	
1,1-Dichloroethene	25.0	1.8	31.3	118	66-127	
1,2,3-Trichlorobenzene	25.0	ND	27.7	111	75-123	
1,2,4-Trichlorobenzene	25.0	ND	27.6	111	79-122	
1,2-Dibromo-3-Chloropropane	25.0	ND	32.4	129	56-134	
1,2-Dibromoethane	25.0	ND	27.0	108	77-120	
1,2-Dichlorobenzene	25.0	ND	26.4	106	80-124	
1,2-Dichloroethane	25.0	ND	27.8	111	75-120	
1,2-Dichloropropane	25.0	ND	26.9	108	76-120	
1,3-Dichlorobenzene	25.0	ND	26.1	105	77-120	
1,4-Dichlorobenzene	25.0	ND	26.0	104	78-124	
1,4-Dioxane	500	ND	499	100	50-150	
2-Butanone (MEK)	125	ND	140	112	57-140	
2-Hexanone	125	ND	140	112	65-127	
4-Methyl-2-pentanone (MIBK)	125	ND	133	107	71-125	
Acetone	125	ND	158	126	56-142	
Benzene	25.0	ND	26.1	104	71-124	
Bromochloromethane	25.0	ND	28.2	113	72-130	
Bromodichloromethane	25.0	ND	31.0	124	80-122	F1
Bromoform	25.0	ND	33.5	134	61-132	F1
Bromomethane	25.0	ND	22.9	92	55-144	
Carbon disulfide	25.0	ND	27.6	110	59-134	
Carbon tetrachloride	25.0	ND	33.3	133	72-134	
Chlorobenzene	25.0	ND	26.2	105	80-120	
Chloroethane	25.0	ND	22.8	91	69-136	
Chloroform	25.0	ND	27.1	108	73-127	
Chloromethane	25.0	ND	24.5	98	68-124	
cis-1,2-Dichloroethene	25.0	ND	27.2	109	74-124	
cis-1,3-Dichloropropene	25.0	ND	25.9	104	74-124	
Cyclohexane	25.0	ND	28.0	112	59-135	
Dibromochloromethane	25.0	ND	32.8	131	75-125	F1
Dichlorodifluoromethane	25.0	ND	21.1	85	59-135	
Ethylbenzene	25.0	ND	26.6	107	77-123	
Isopropylbenzene	25.0	ND	26.5	106	77-122	
Methyl acetate	50.0	ND	48.9	98	74-133	
Methyl tert-butyl ether	25.0	ND	25.5	102	77-120	
Methylcyclohexane	25.0	ND	27.8	111	68-134	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: T3150.D  
 Lab ID: 480-156213-14 MS Client ID: 356023-MW6B MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Methylene Chloride	25.0	ND	28.0	112	75-124	
Styrene	25.0	ND	26.0	104	80-120	
Tetrachloroethene	25.0	ND	30.0	120	74-122	
Toluene	25.0	ND	25.9	104	80-122	
trans-1,2-Dichloroethene	25.0	ND	28.4	114	73-127	
trans-1,3-Dichloropropene	25.0	ND	25.3	101	80-120	
Trichloroethene	25.0	ND	28.0	112	74-123	
Trichlorofluoromethane	25.0	ND	25.4	102	62-150	
Vinyl chloride	25.0	ND	25.7	103	65-133	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

Lab File ID: T3151.D

Lab ID: 480-156213-14 MSD

Client ID: 356023-MW6B MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	25.0	39.9	127	1	15	73-126	F1
1,1,2,2-Tetrachloroethane	25.0	26.2	105	0	15	76-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1	112	2	20	61-148	
1,1,2-Trichloroethane	25.0	26.0	104	1	15	76-122	
1,1-Dichloroethane	25.0	27.9	112	0	20	77-120	
1,1-Dichloroethene	25.0	30.4	114	3	16	66-127	
1,2,3-Trichlorobenzene	25.0	28.0	112	1	20	75-123	
1,2,4-Trichlorobenzene	25.0	28.3	113	2	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	33.9	136	5	15	56-134	F1
1,2-Dibromoethane	25.0	27.6	110	2	15	77-120	
1,2-Dichlorobenzene	25.0	26.6	106	1	20	80-124	
1,2-Dichloroethane	25.0	27.3	109	2	20	75-120	
1,2-Dichloropropane	25.0	26.2	105	3	20	76-120	
1,3-Dichlorobenzene	25.0	26.4	105	1	20	77-120	
1,4-Dichlorobenzene	25.0	26.0	104	0	20	78-124	
1,4-Dioxane	500	559	112	11	20	50-150	
2-Butanone (MEK)	125	143	115	3	20	57-140	
2-Hexanone	125	144	115	3	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	137	109	2	35	71-125	
Acetone	125	155	124	2	15	56-142	
Benzene	25.0	26.1	104	0	13	71-124	
Bromochloromethane	25.0	27.5	110	3	15	72-130	
Bromodichloromethane	25.0	31.3	125	1	15	80-122	F1
Bromoform	25.0	34.9	140	4	15	61-132	F1
Bromomethane	25.0	22.3	89	3	15	55-144	
Carbon disulfide	25.0	27.3	109	1	15	59-134	
Carbon tetrachloride	25.0	33.5	134	1	15	72-134	
Chlorobenzene	25.0	26.5	106	1	25	80-120	
Chloroethane	25.0	23.9	96	5	15	69-136	
Chloroform	25.0	26.8	107	1	20	73-127	
Chloromethane	25.0	23.9	96	2	15	68-124	
cis-1,2-Dichloroethene	25.0	26.7	107	2	15	74-124	
cis-1,3-Dichloropropene	25.0	26.0	104	0	15	74-124	
Cyclohexane	25.0	27.7	111	1	20	59-135	
Dibromochloromethane	25.0	33.7	135	3	15	75-125	F1
Dichlorodifluoromethane	25.0	20.7	83	2	20	59-135	
Ethylbenzene	25.0	27.2	109	2	15	77-123	
Isopropylbenzene	25.0	26.8	107	1	20	77-122	
Methyl acetate	50.0	48.9	98	0	20	74-133	
Methyl tert-butyl ether	25.0	25.6	103	0	37	77-120	
Methylcyclohexane	25.0	27.4	109	2	20	68-134	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: T3151.D

Lab ID: 480-156213-14 MSD Client ID: 356023-MW6B MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methylene Chloride	25.0	26.9	108	4	15	75-124	
Styrene	25.0	26.5	106	2	20	80-120	
Tetrachloroethene	25.0	30.7	123	2	20	74-122	F1
Toluene	25.0	26.2	105	1	15	80-122	
trans-1,2-Dichloroethene	25.0	28.7	115	1	20	73-127	
trans-1,3-Dichloropropene	25.0	25.8	103	2	15	80-120	
Trichloroethene	25.0	27.0	108	3	16	74-123	
Trichlorofluoromethane	25.0	25.2	101	1	20	62-150	
Vinyl chloride	25.0	25.6	102	1	15	65-133	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: T3129.D Lab Sample ID: MB 480-482537/7  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: HP5975T Date Analyzed: 07/17/2019 21:43  
 GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-482537/5	T3127.D	07/17/2019 20:54
356023-MW8B	480-156213-1	T3130.D	07/17/2019 22:23
356023-MW8BD	480-156213-2	T3131.D	07/17/2019 22:47
356023-MW16	480-156213-3	T3132.D	07/17/2019 23:11
356023-MW14B 150	480-156213-4	T3133.D	07/17/2019 23:35
356023-MW12B 190	480-156213-5	T3134.D	07/17/2019 23:59
356023-MW11B	480-156213-6	T3135.D	07/18/2019 00:23
356023-MW11C	480-156213-7	T3136.D	07/18/2019 00:47
356023-MW1801	480-156213-8	T3137.D	07/18/2019 01:11
356023-MW1802	480-156213-9	T3138.D	07/18/2019 01:35
356023-MW1803	480-156213-10	T3139.D	07/18/2019 01:59
356023-MW5B	480-156213-11	T3140.D	07/18/2019 02:23
356023-ERT4	480-156213-12	T3141.D	07/18/2019 02:47
356023-MW4	480-156213-13	T3142.D	07/18/2019 03:11
356023-MW6B	480-156213-14	T3143.D	07/18/2019 03:34
356023-MW15B	480-156213-15	T3144.D	07/18/2019 03:58
356023-EB1	480-156213-16	T3145.D	07/18/2019 04:22
356023-MW1B	480-156213-17	T3146.D	07/18/2019 04:46
356023-MW5R	480-156213-18	T3147.D	07/18/2019 05:09
356023-MW7R	480-156213-19	T3148.D	07/18/2019 05:34
356023-TB1	480-156213-20	T3149.D	07/18/2019 05:57
356023-MW6B MS	480-156213-14 MS	T3150.D	07/18/2019 06:21
356023-MW6B MSD	480-156213-14 MSD	T3151.D	07/18/2019 06:45

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: T2785.D BFB Injection Date: 07/08/2019  
 Instrument ID: HP5975T BFB Injection Time: 13:56  
 Analysis Batch No.: 481153

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.2	
75	30.0 - 60.0 % of mass 95	48.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.9	(1.1) 1
174	50.0 - 120.00 % of mass 95	88.3	
175	5.0 - 9.0 % of mass 174	6.7	(7.5) 1
176	95.0 - 101.0 % of mass 174	87.8	(99.5) 1
177	5.0 - 9.0 % of mass 176	6.1	(7.0) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-481153/5	T2787.D	07/08/2019	14:46
	IC 480-481153/6	T2788.D	07/08/2019	15:10
	IC 480-481153/7	T2789.D	07/08/2019	15:35
	IC 480-481153/8	T2790.D	07/08/2019	15:59
	IC 480-481153/9	T2791.D	07/08/2019	16:23
	ICIS 480-481153/10	T2792.D	07/08/2019	16:47
	IC 480-481153/11	T2793.D	07/08/2019	17:11
	IC 480-481153/12	T2794.D	07/08/2019	17:35

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: T3124.D BFB Injection Date: 07/17/2019  
 Instrument ID: HP5975T BFB Injection Time: 19:36  
 Analysis Batch No.: 482537

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.2
75	30.0 - 60.0 % of mass 95	48.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.9 (1.0) 1
174	50.0 - 120.00 % of mass 95	90.5
175	5.0 - 9.0 % of mass 174	6.6 (7.3) 1
176	95.0 - 101.0 % of mass 174	90.5 (100.0) 1
177	5.0 - 9.0 % of mass 176	6.1 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-482537/3	T3125.D	07/17/2019	20:06
	LCS 480-482537/5	T3127.D	07/17/2019	20:54
	MB 480-482537/7	T3129.D	07/17/2019	21:43
356023-MW8B	480-156213-1	T3130.D	07/17/2019	22:23
356023-MW8BD	480-156213-2	T3131.D	07/17/2019	22:47
356023-MW16	480-156213-3	T3132.D	07/17/2019	23:11
356023-MW14B 150	480-156213-4	T3133.D	07/17/2019	23:35
356023-MW12B 190	480-156213-5	T3134.D	07/17/2019	23:59
356023-MW11B	480-156213-6	T3135.D	07/18/2019	00:23
356023-MW11C	480-156213-7	T3136.D	07/18/2019	00:47
356023-MW1801	480-156213-8	T3137.D	07/18/2019	01:11
356023-MW1802	480-156213-9	T3138.D	07/18/2019	01:35
356023-MW1803	480-156213-10	T3139.D	07/18/2019	01:59
356023-MW5B	480-156213-11	T3140.D	07/18/2019	02:23
356023-ERT4	480-156213-12	T3141.D	07/18/2019	02:47
356023-MW4	480-156213-13	T3142.D	07/18/2019	03:11
356023-MW6B	480-156213-14	T3143.D	07/18/2019	03:34
356023-MW15B	480-156213-15	T3144.D	07/18/2019	03:58
356023-EB1	480-156213-16	T3145.D	07/18/2019	04:22
356023-MW1B	480-156213-17	T3146.D	07/18/2019	04:46
356023-MW5R	480-156213-18	T3147.D	07/18/2019	05:09
356023-MW7R	480-156213-19	T3148.D	07/18/2019	05:34
356023-TB1	480-156213-20	T3149.D	07/18/2019	05:57
356023-MW6B MS	480-156213-14 MS	T3150.D	07/18/2019	06:21
356023-MW6B MSD	480-156213-14 MSD	T3151.D	07/18/2019	06:45

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 480-481153/10 Date Analyzed: 07/08/2019 16:47  
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)  
 Lab File ID (Standard): T2792.D Heated Purge: (Y/N) N  
 Calibration ID: 37204

	FB		CBNZd5		DCBd4	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	167087	4.68	719413	6.98	401726	8.83
UPPER LIMIT	334174	5.18	1438826	7.48	803452	9.33
LOWER LIMIT	83544	4.18	359707	6.48	200863	8.33
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-482537/3	181521	4.69	784358	6.98	452684	8.83

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

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits



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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-482537/3 Date Analyzed: 07/17/2019 20:06  
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)  
 Lab File ID (Standard): T3125.D Heated Purge: (Y/N) N  
 Calibration ID: 37223

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	181521	4.69	784358	6.98	452684	8.83	
UPPER LIMIT	363042	5.19	1568716	7.48	905368	9.33	
LOWER LIMIT	90761	4.19	392179	6.48	226342	8.33	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-482537/5		179313	4.69	764667	6.98	443129	8.83
MB 480-482537/7		172717	4.68	753670	6.98	449206	8.83
480-156213-1	356023-MW8B	169613	4.68	745526	6.98	440273	8.83
480-156213-2	356023-MW8BD	166325	4.68	734693	6.98	437109	8.83
480-156213-3	356023-MW16	166999	4.69	732458	6.98	433138	8.83
480-156213-4	356023-MW14B 150	168917	4.68	736767	6.98	436240	8.83
480-156213-5	356023-MW12B 190	165118	4.68	745393	6.98	434549	8.83
480-156213-6	356023-MW11B	164666	4.69	746971	6.98	439942	8.83
480-156213-7	356023-MW11C	166625	4.68	747080	6.98	428634	8.83
480-156213-8	356023-MW1801	166523	4.69	743289	6.98	433147	8.83
480-156213-9	356023-MW1802	167637	4.69	745253	6.98	434007	8.83
480-156213-10	356023-MW1803	166477	4.68	731088	6.98	439443	8.83
480-156213-11	356023-MW5B	164345	4.68	716816	6.98	434282	8.83
480-156213-12	356023-ERT4	164679	4.69	736696	6.98	436767	8.83
480-156213-13	356023-MW4	169040	4.68	735683	6.98	433348	8.83
480-156213-14	356023-MW6B	169140	4.68	740637	6.98	431582	8.83
480-156213-15	356023-MW15B	165617	4.69	742540	6.98	431417	8.83
480-156213-16	356023-EB1	169585	4.68	743325	6.98	432244	8.83
480-156213-17	356023-MW1B	168574	4.68	741778	6.98	438143	8.83
480-156213-18	356023-MW5R	164880	4.68	741272	6.98	432045	8.83
480-156213-19	356023-MW7R	166429	4.68	737594	6.98	428698	8.83
480-156213-20	356023-TB1	168946	4.68	745831	6.98	435357	8.83
480-156213-14 MS	356023-MW6B MS	168717	4.68	753814	6.98	436100	8.83
480-156213-14 MSD	356023-MW6B MSD	171331	4.68	749405	6.98	438666	8.83

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

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8B Lab Sample ID: 480-156213-1  
 Matrix: Water Lab File ID: T3130.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 13:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 22:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8B Lab Sample ID: 480-156213-1  
 Matrix: Water Lab File ID: T3130.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 13:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 22:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3130.D  
 Lims ID: 480-156213-D-1  
 Client ID: 356023-MW8B  
 Sample Type: Client  
 Inject. Date: 17-Jul-2019 22:23:30 ALS Bottle#: 8 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-1  
 Misc. Info.: 480-0082700-009  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 04:59:49 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 09:48:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.678	4.688	-0.010	99	169613	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	85	745526	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	440273	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	93	244207	26.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.470	-0.010	0	272864	25.3	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	92	885309	24.2	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	326617	26.6	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.336	2.346	-0.010	96	1914	0.2460	
23 Acetone	43	2.450	2.460	-0.010	74	2326	0.8875	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	86	6203	0.1790	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	91	3493	0.2351	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

**Reagents:**

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3130.D

Injection Date: 17-Jul-2019 22:23:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-1

Lab Sample ID: 480-156213-1

Worklist Smp#: 9

Client ID: 356023-MW8B

Purge Vol: 5.000 mL

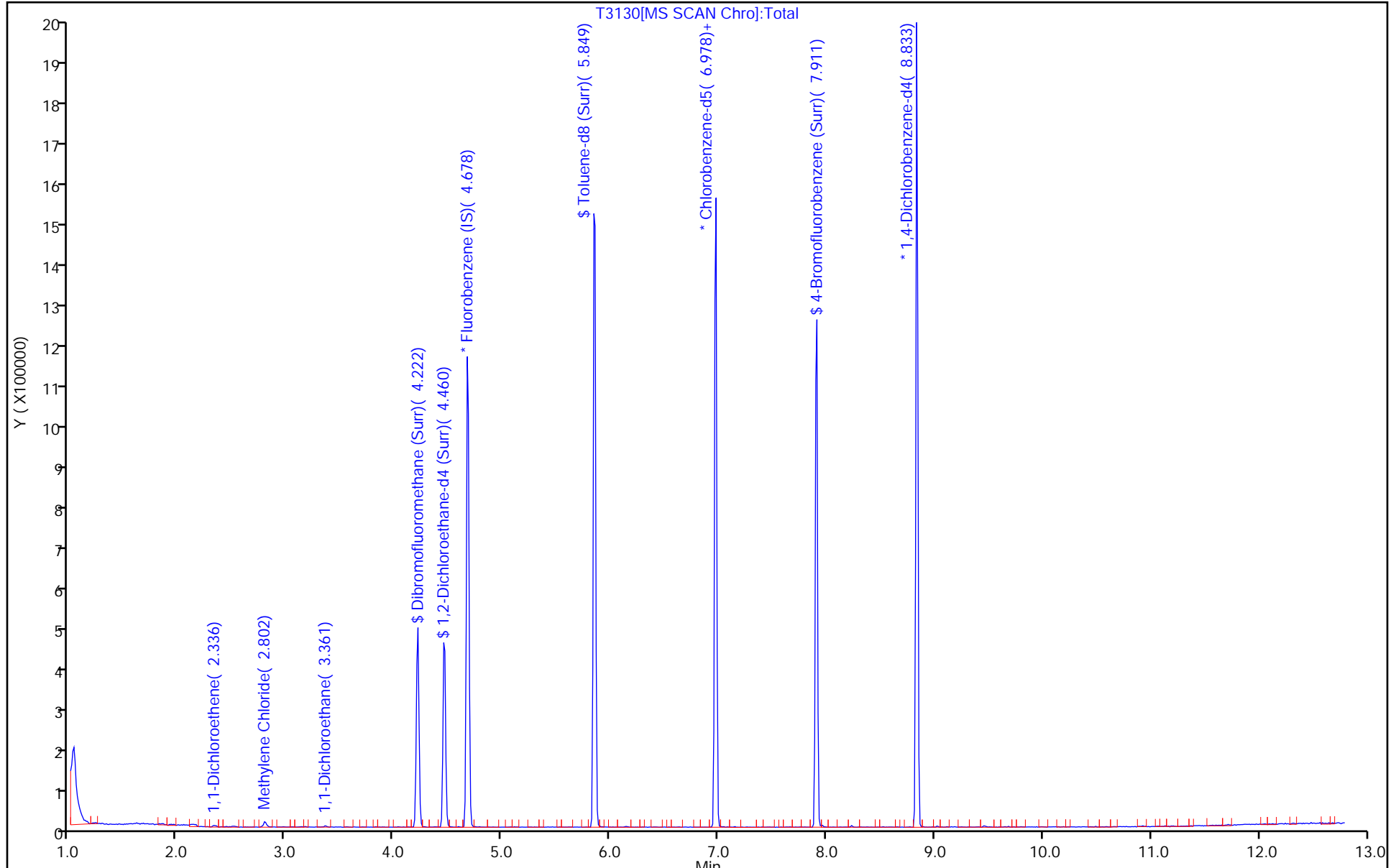
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8BD Lab Sample ID: 480-156213-2  
 Matrix: Water Lab File ID: T3131.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 13:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 22:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8BD Lab Sample ID: 480-156213-2  
 Matrix: Water Lab File ID: T3131.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 13:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 22:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3131.D  
 Lims ID: 480-156213-D-2  
 Client ID: 356023-MW8BD  
 Sample Type: Client  
 Inject. Date: 17-Jul-2019 22:47:30 ALS Bottle#: 9 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-2  
 Misc. Info.: 480-0082700-010  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 09:52:48 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 09:52:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	166325	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	734693	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	437109	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	93	242162	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.470	-0.010	0	267896	25.4	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	874711	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	320444	26.5	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96		2.346				ND	Ua
23 Acetone	43	2.460	2.460	0.000	96	5201	2.02	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	92	6784	0.2574	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	93	3816	0.2619	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3131.D

Injection Date: 17-Jul-2019 22:47:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-2

Lab Sample ID: 480-156213-2

Worklist Smp#: 10

Client ID: 356023-MW8BD

Purge Vol: 5.000 mL

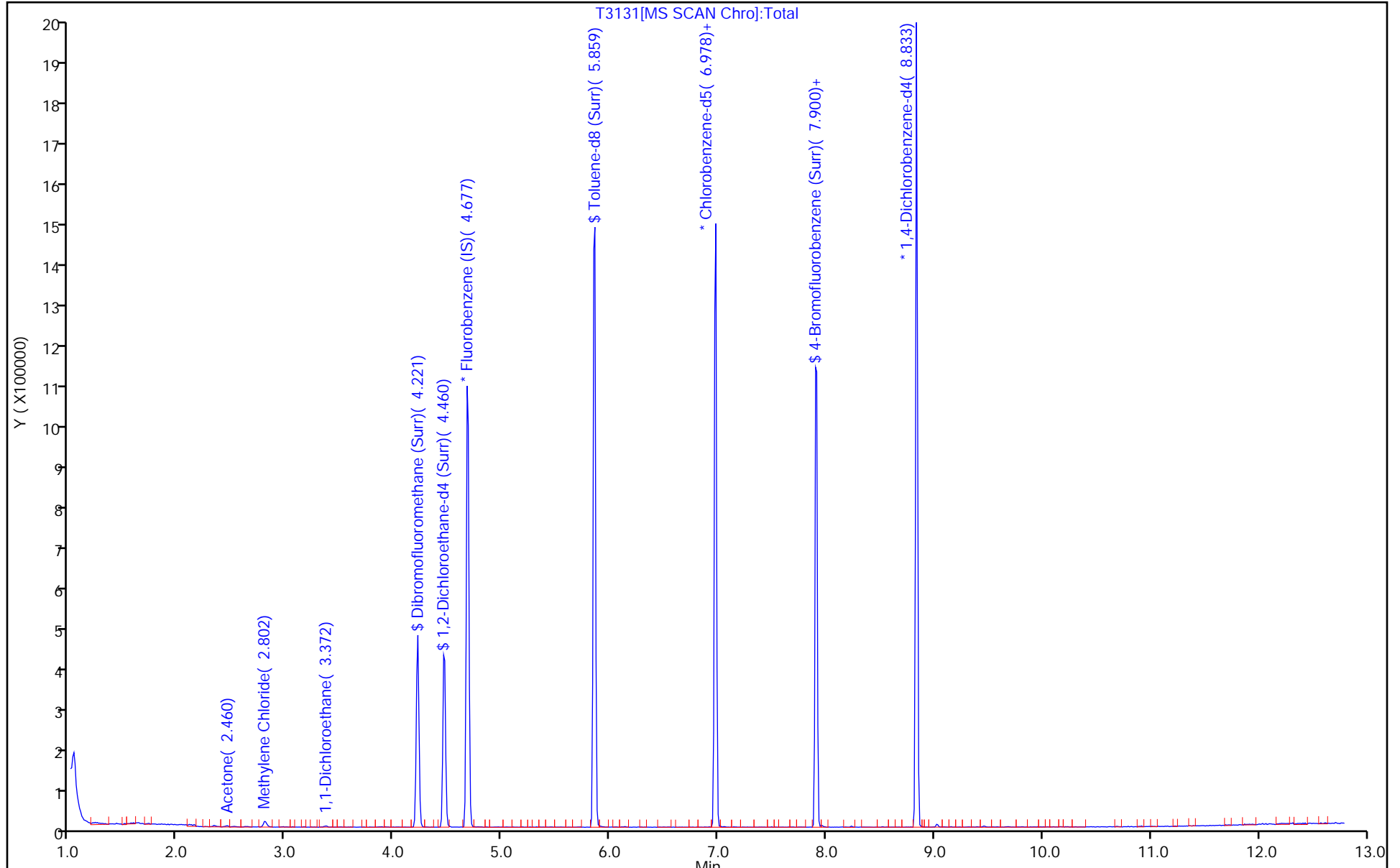
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW16 Lab Sample ID: 480-156213-3  
 Matrix: Water Lab File ID: T3132.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 17:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 23:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	13		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	2.2		1.0	0.38
75-35-4	1,1-Dichloroethene	10		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW16 Lab Sample ID: 480-156213-3  
 Matrix: Water Lab File ID: T3132.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 17:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 23:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	1.3		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3132.D  
 Lims ID: 480-156213-D-3  
 Client ID: 356023-MW16  
 Sample Type: Client  
 Inject. Date: 17-Jul-2019 23:11:30 ALS Bottle#: 10 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-3  
 Misc. Info.: 480-0082700-011  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 09:53:37 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 09:53:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	166999	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	732458	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	433138	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	94	237854	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	261356	24.6	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	873278	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	316723	26.3	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	98	80240	10.5	
23 Acetone	43	2.449	2.460	-0.011	68	2557	0.99	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	93	5715	0.1353	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	97	31824	2.18	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	Ua
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.190	4.190	0.000	98	149059	13.1	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	94	11990	1.28	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3132.D

Injection Date: 17-Jul-2019 23:11:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-3

Lab Sample ID: 480-156213-3

Worklist Smp#: 11

Client ID: 356023-MW16

Purge Vol: 5.000 mL

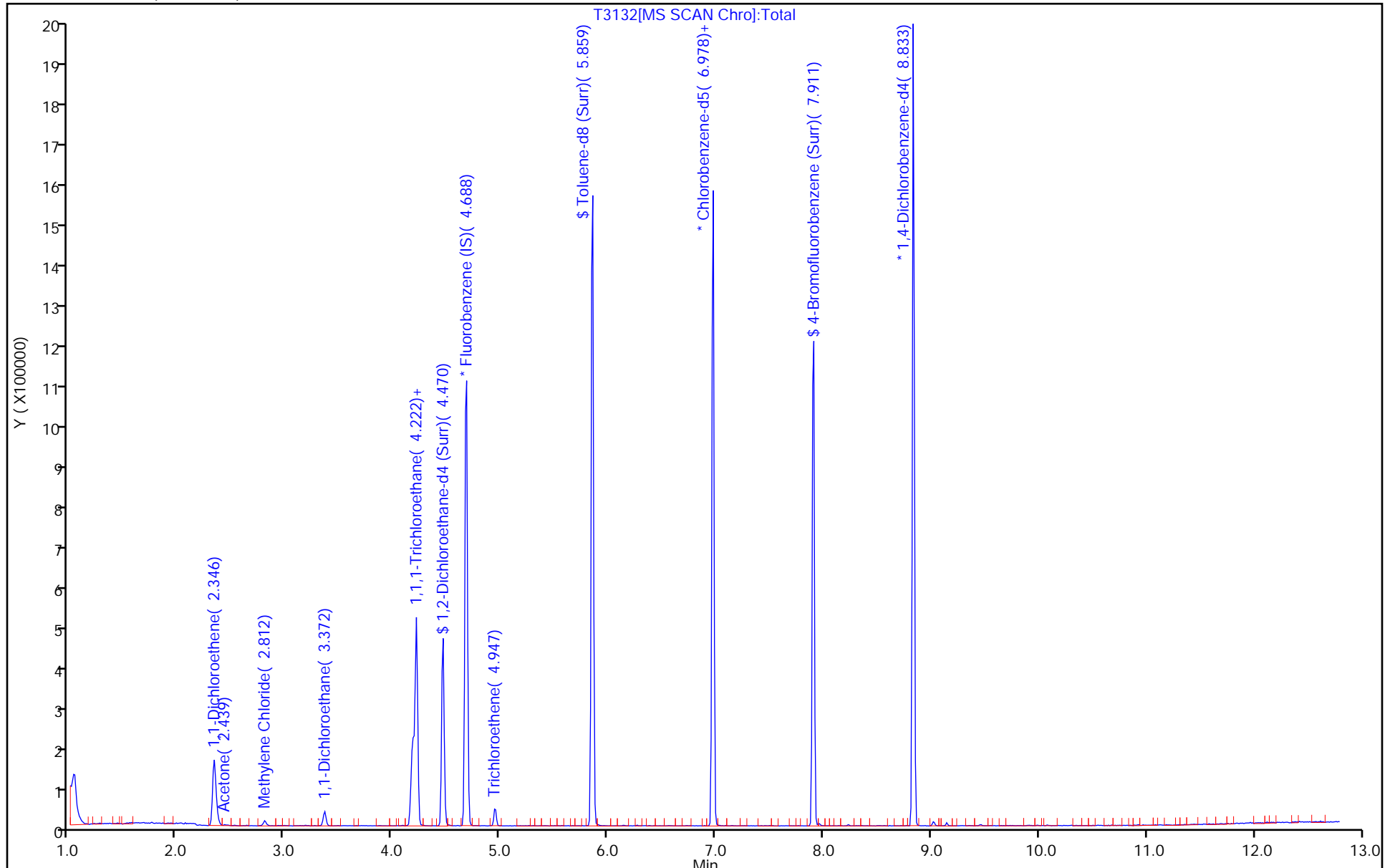
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)





Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3132.D

Injection Date: 17-Jul-2019 23:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-3

Lab Sample ID: 480-156213-3

Client ID: 356023-MW16

Operator ID: AEM

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

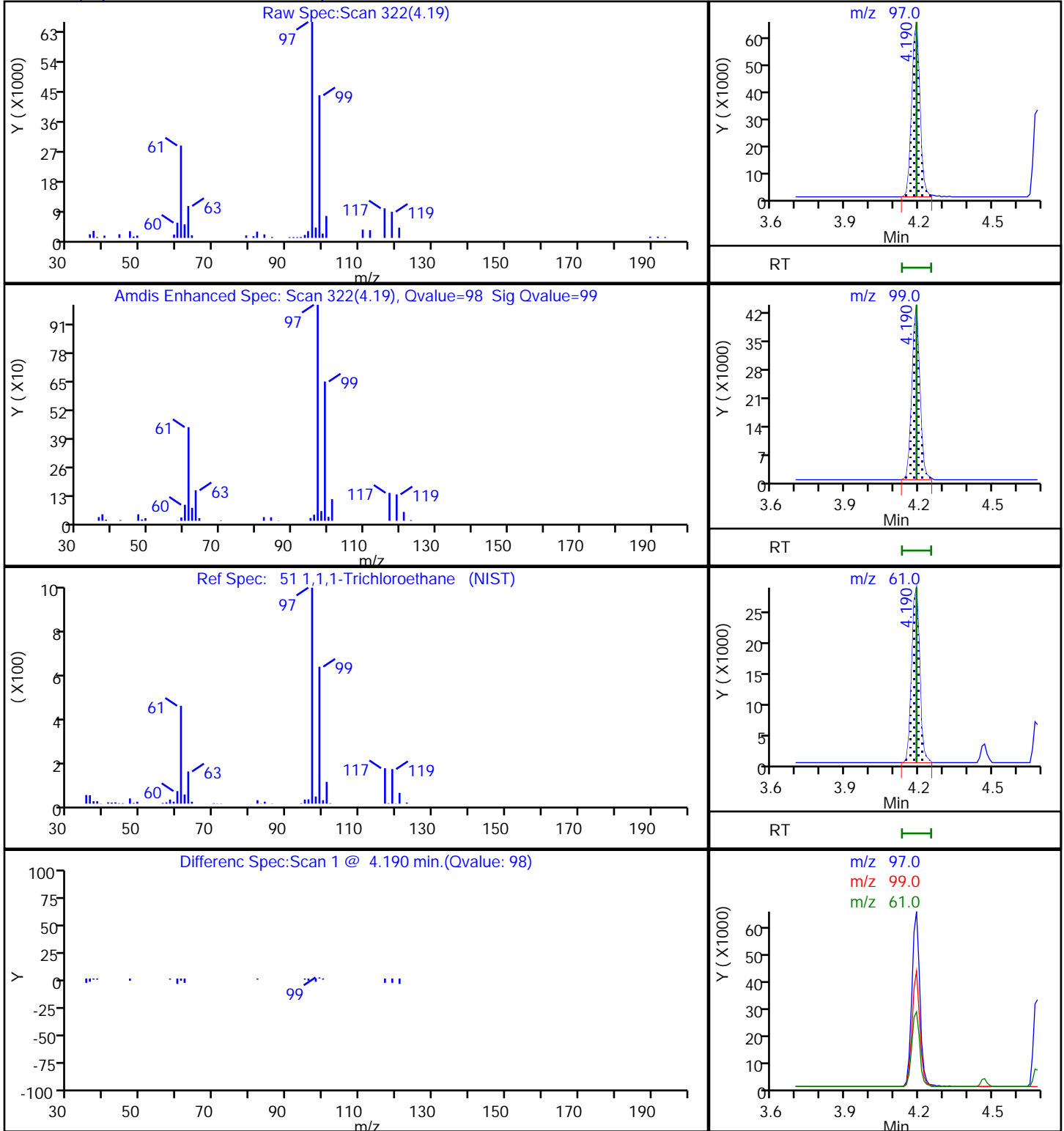
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3132.D

Injection Date: 17-Jul-2019 23:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-3

Lab Sample ID: 480-156213-3

Client ID: 356023-MW16

Operator ID: AEM

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

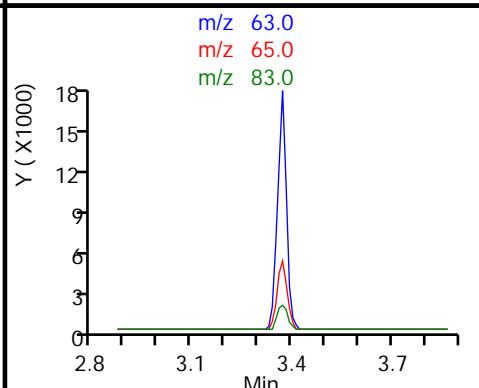
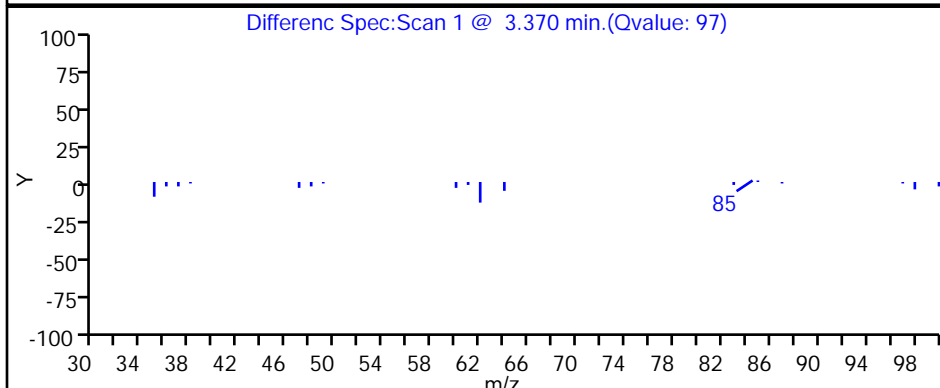
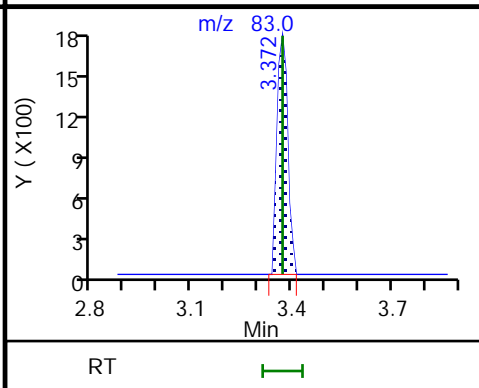
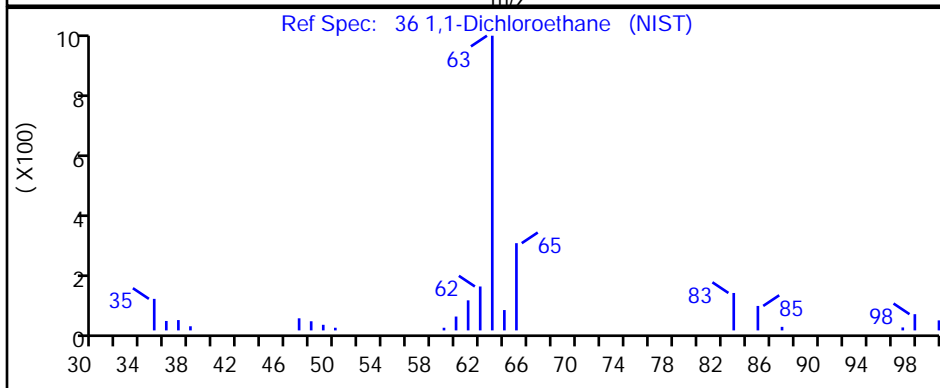
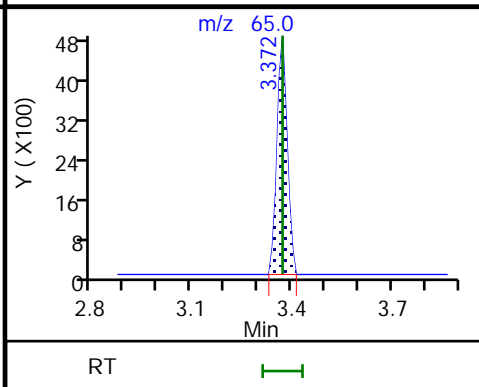
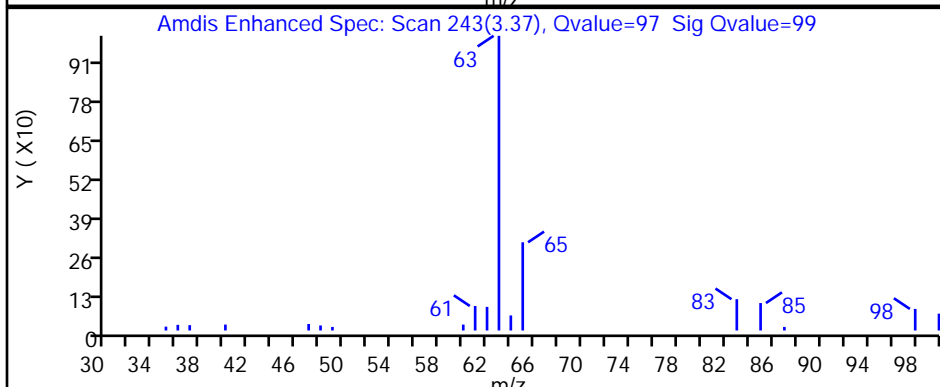
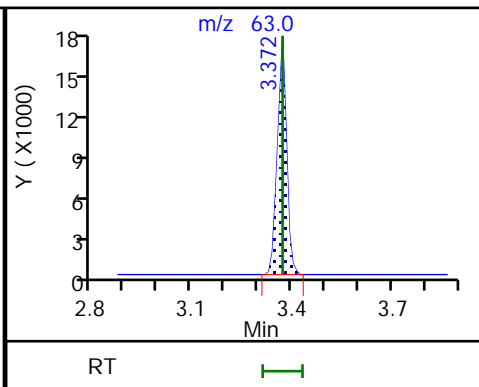
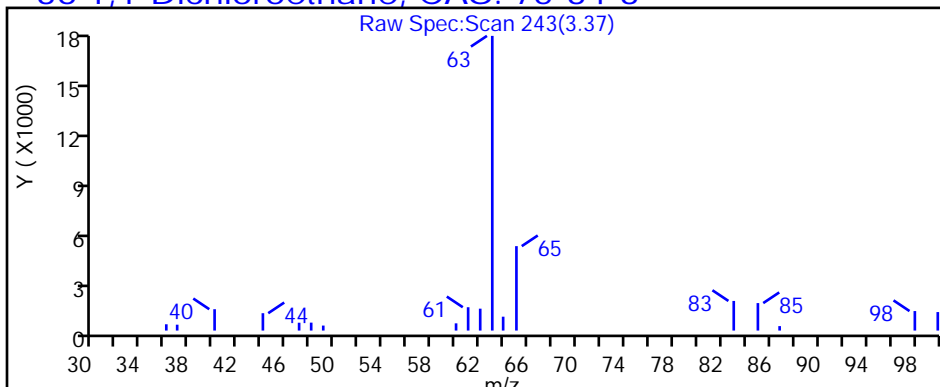
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3132.D

Injection Date: 17-Jul-2019 23:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-3

Lab Sample ID: 480-156213-3

Client ID: 356023-MW16

Operator ID: AEM

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

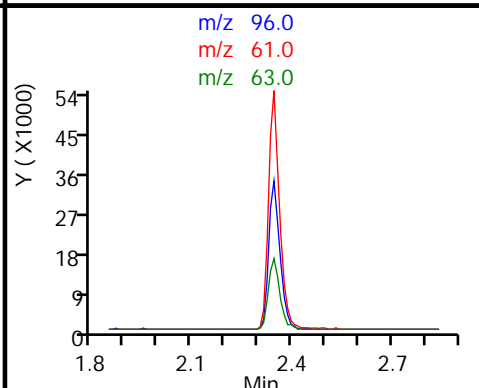
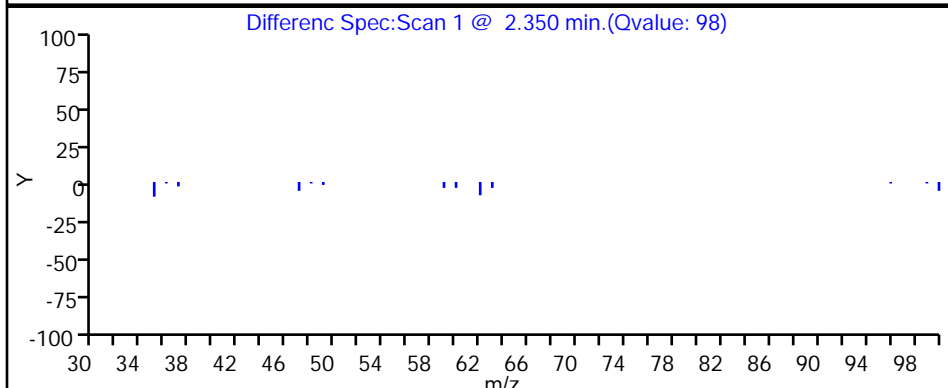
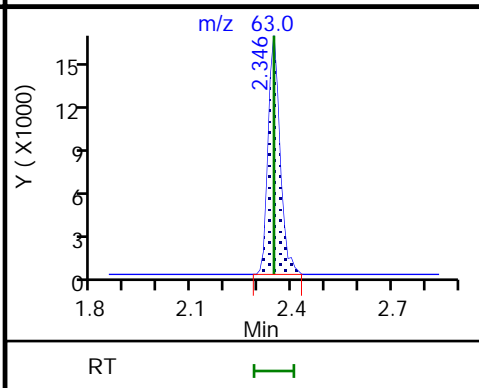
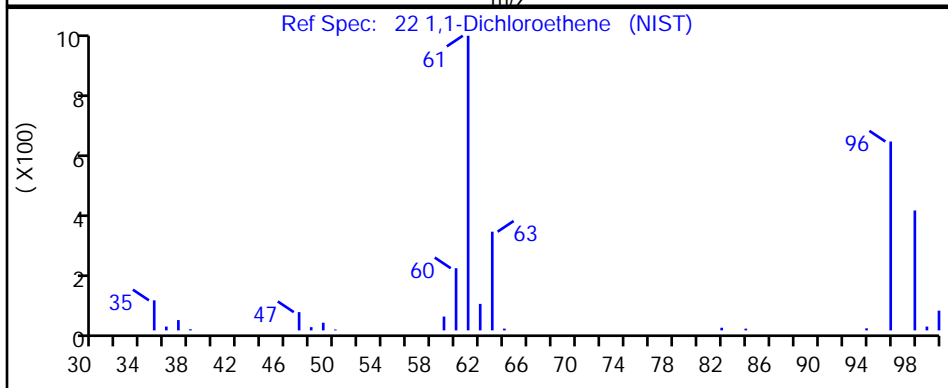
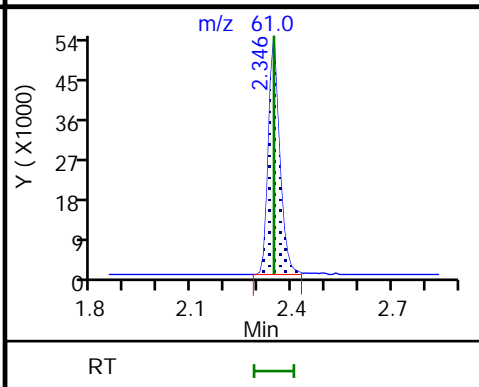
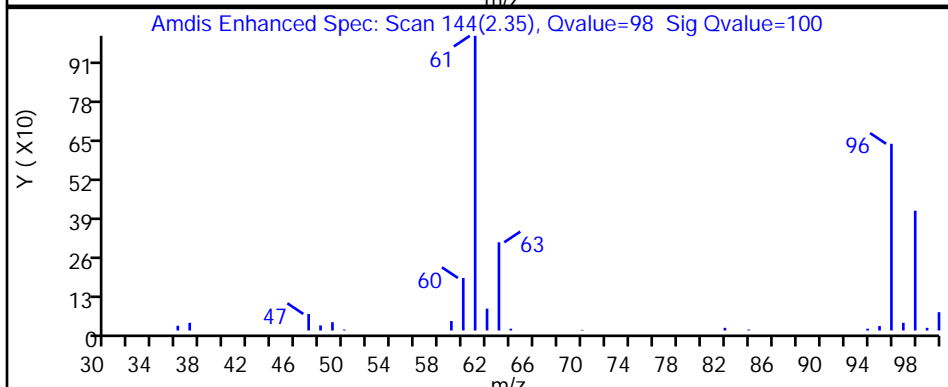
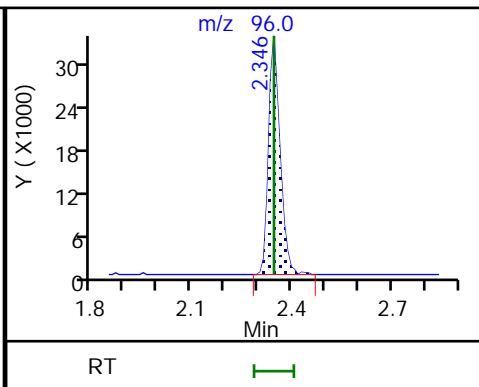
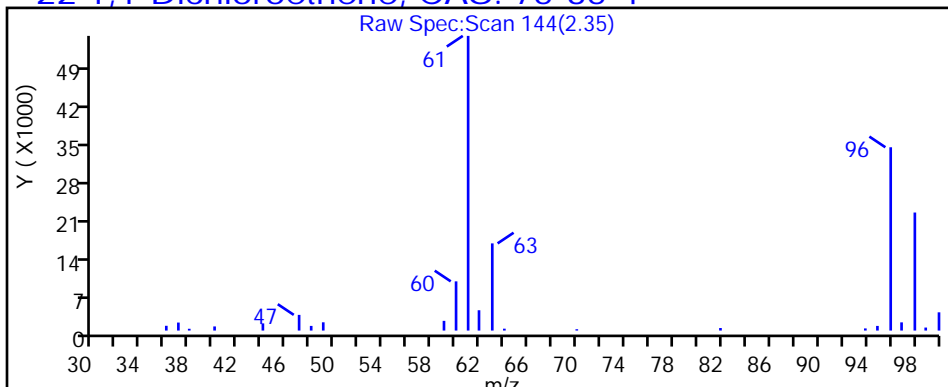
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3132.D

Injection Date: 17-Jul-2019 23:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-3

Lab Sample ID: 480-156213-3

Client ID: 356023-MW16

Operator ID: AEM

ALS Bottle#: 10

Worklist Smp#: 11

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

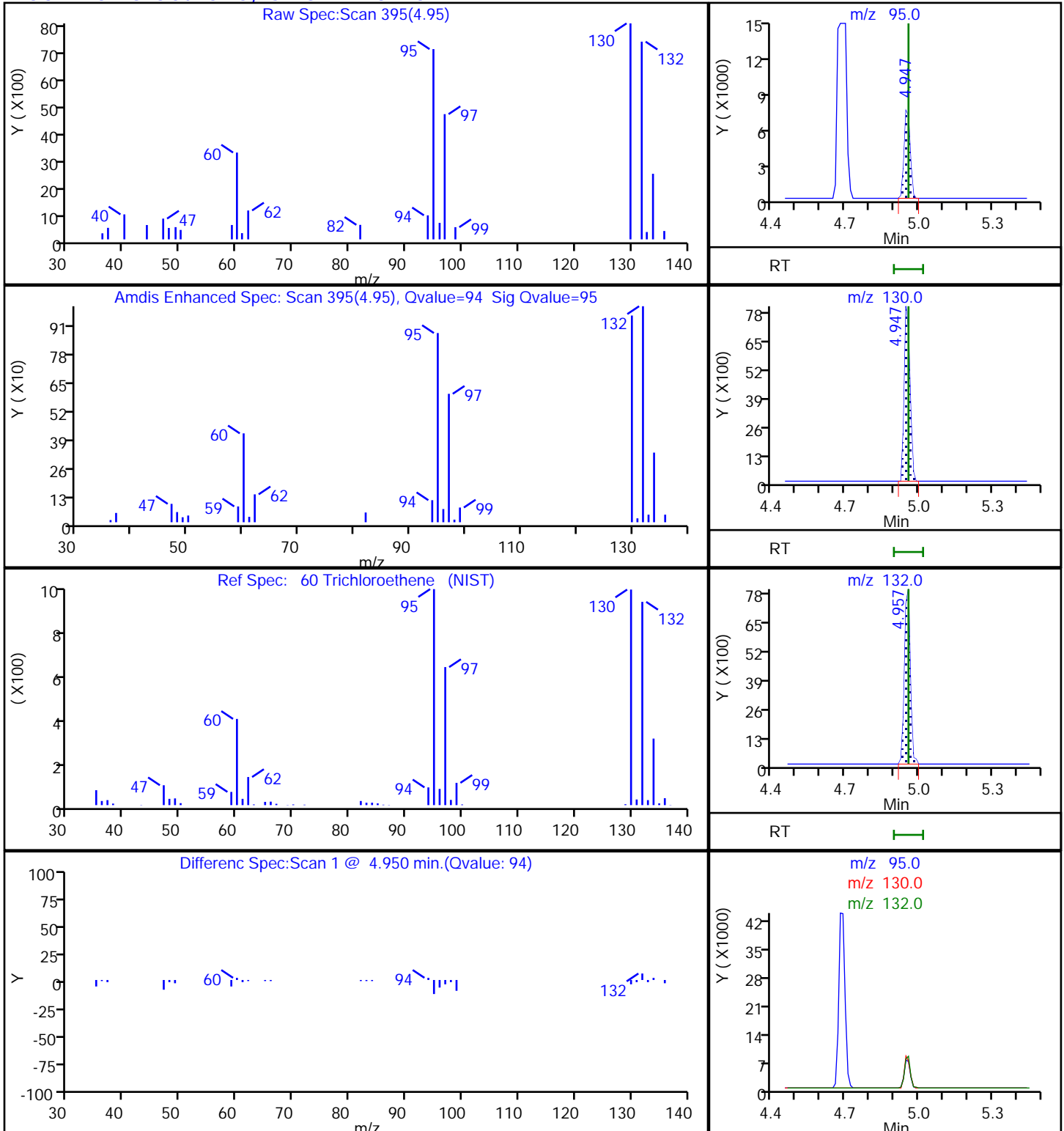
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW14B 150 Lab Sample ID: 480-156213-4  
 Matrix: Water Lab File ID: T3133.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 11:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 23:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	1.0		1.0	0.38
75-35-4	1,1-Dichloroethene	0.66	J	1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW14B 150 Lab Sample ID: 480-156213-4  
 Matrix: Water Lab File ID: T3133.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 11:50  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 23:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3133.D  
 Lims ID: 480-156213-D-4  
 Client ID: 356023-MW14B 150  
 Sample Type: Client  
 Inject. Date: 17-Jul-2019 23:35:30 ALS Bottle#: 11 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-4  
 Misc. Info.: 480-0082700-012  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 10:06:41 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 10:06:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	168917	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	736767	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	436240	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	94	239704	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	272575	25.4	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	863458	23.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	323676	26.7	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	U
14 Vinyl chloride	62		1.403				ND	U
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.335	2.335	-0.011	95	5106	0.6591	
23 Acetone	43	2.449	2.460	-0.011	78	2705	1.04	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	92	6493	0.2137	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	96	15390	1.04	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3133.D

Injection Date: 17-Jul-2019 23:35:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-4

Lab Sample ID: 480-156213-4

Worklist Smp#: 12

Client ID: 356023-MW14B 150

Purge Vol: 5.000 mL

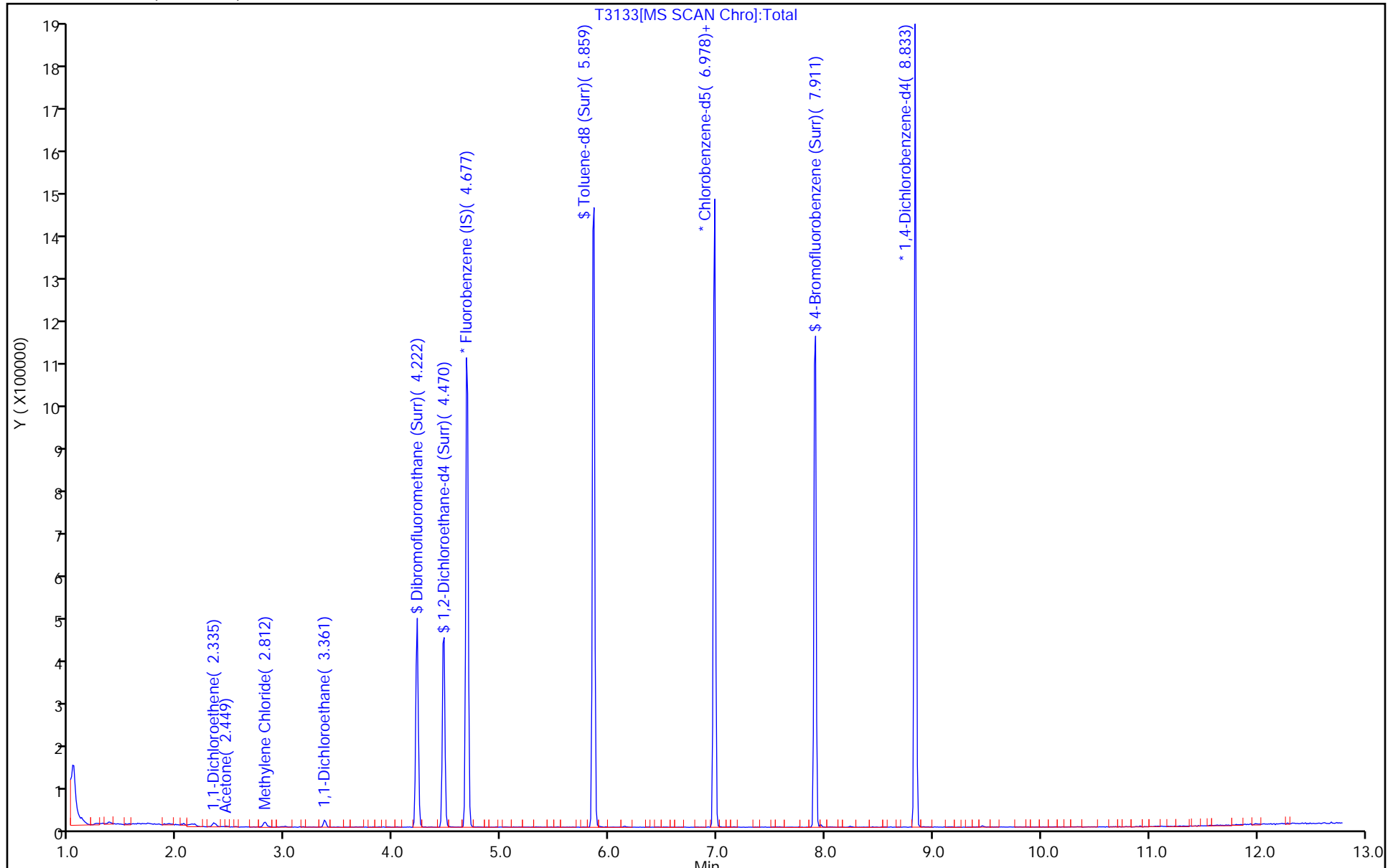
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3133.D

Injection Date: 17-Jul-2019 23:35:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-4

Lab Sample ID: 480-156213-4

Client ID: 356023-MW14B 150

Operator ID: AEM

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

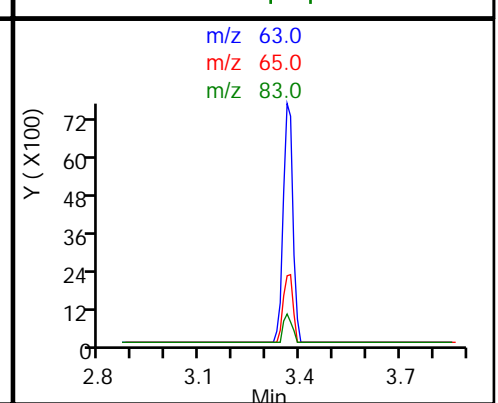
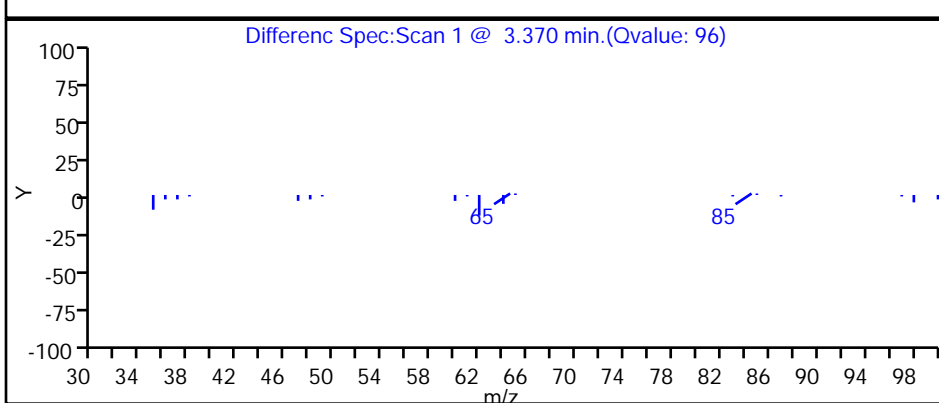
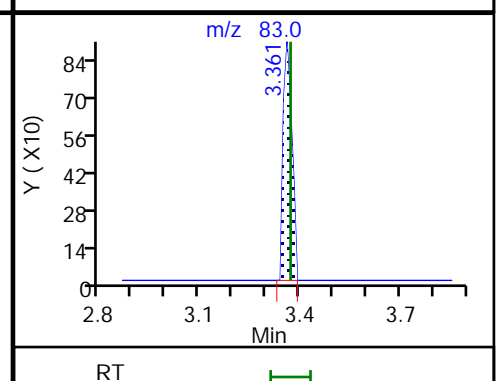
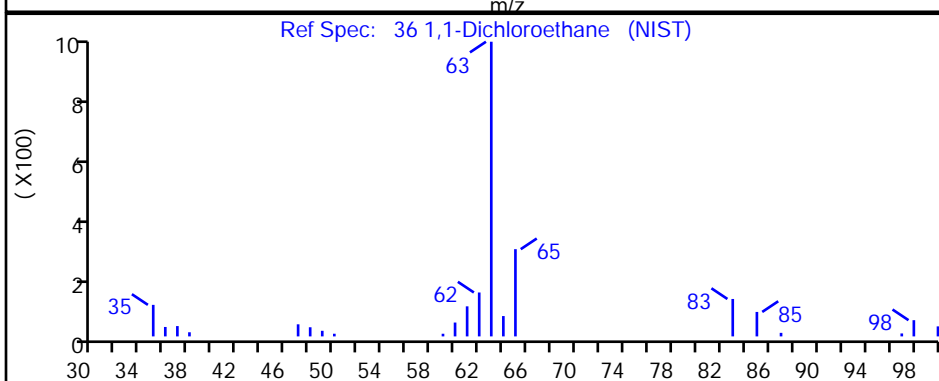
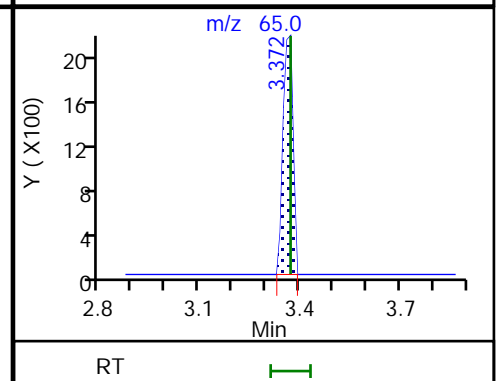
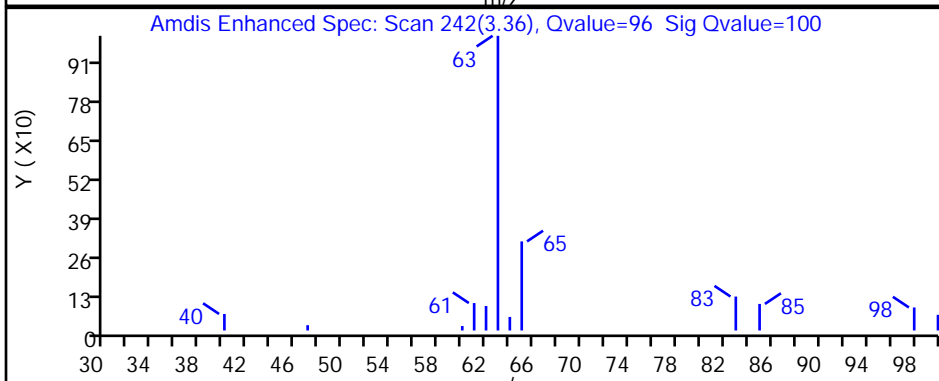
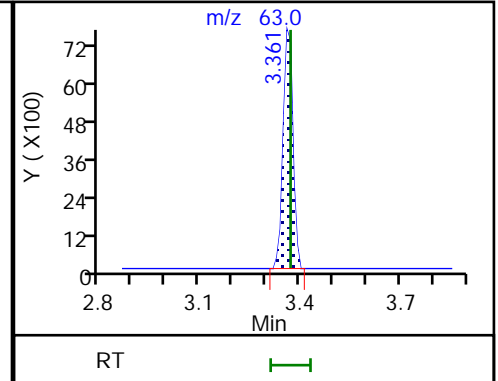
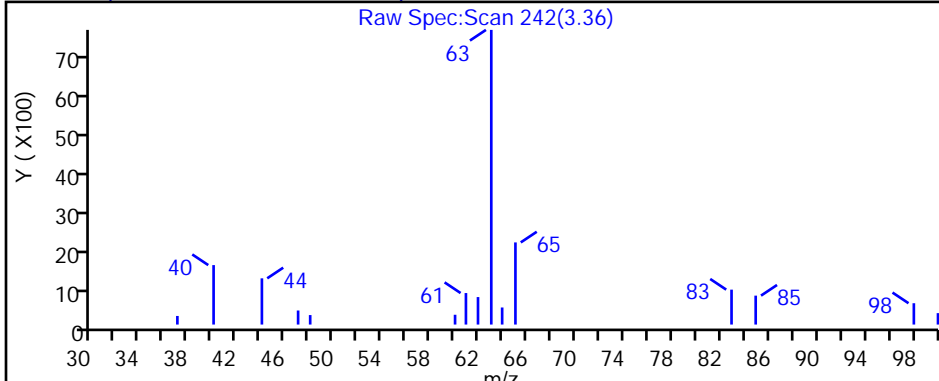
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3133.D

Injection Date: 17-Jul-2019 23:35:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-4

Lab Sample ID: 480-156213-4

Client ID: 356023-MW14B 150

Operator ID: AEM

ALS Bottle#: 11

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

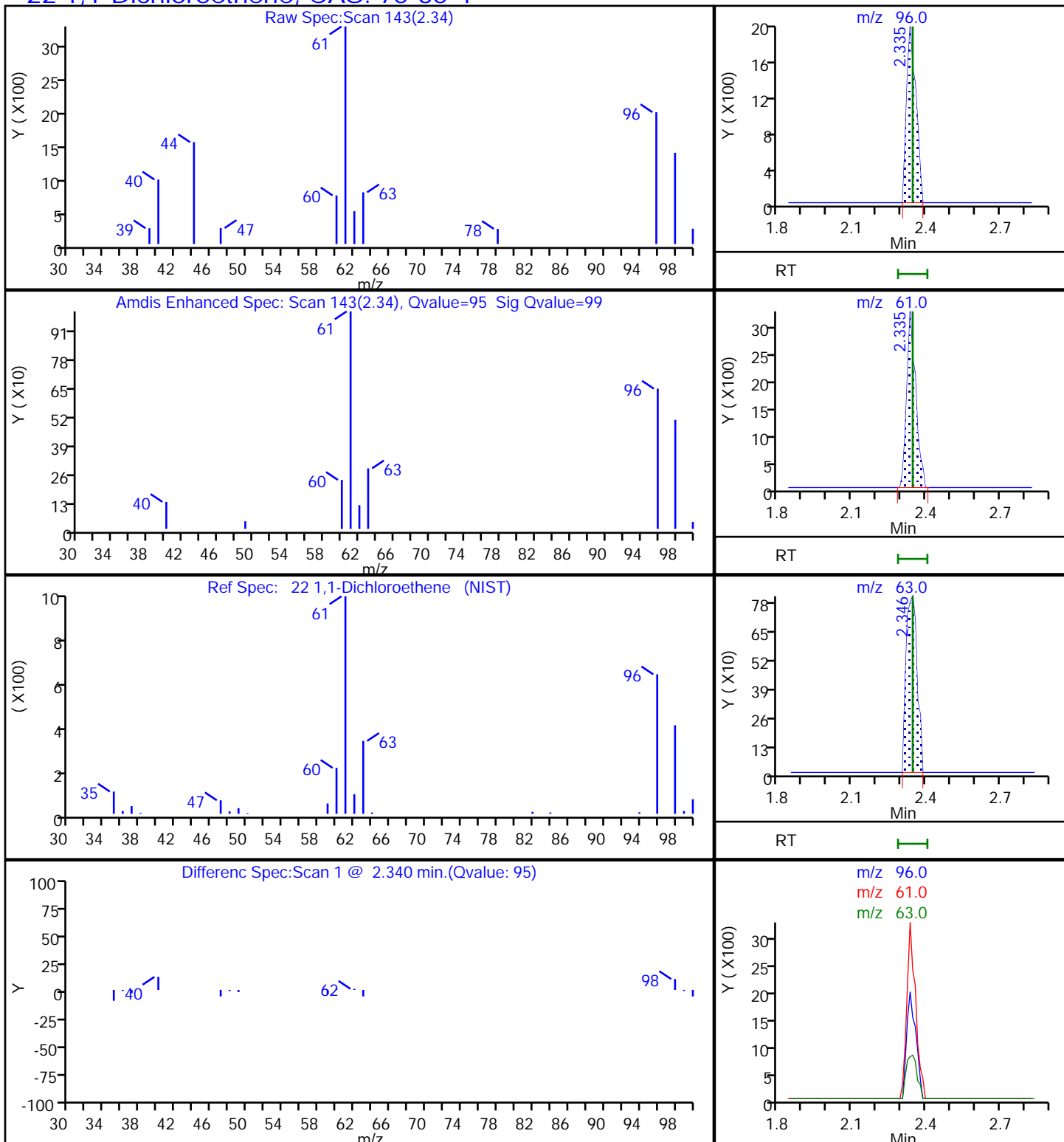
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

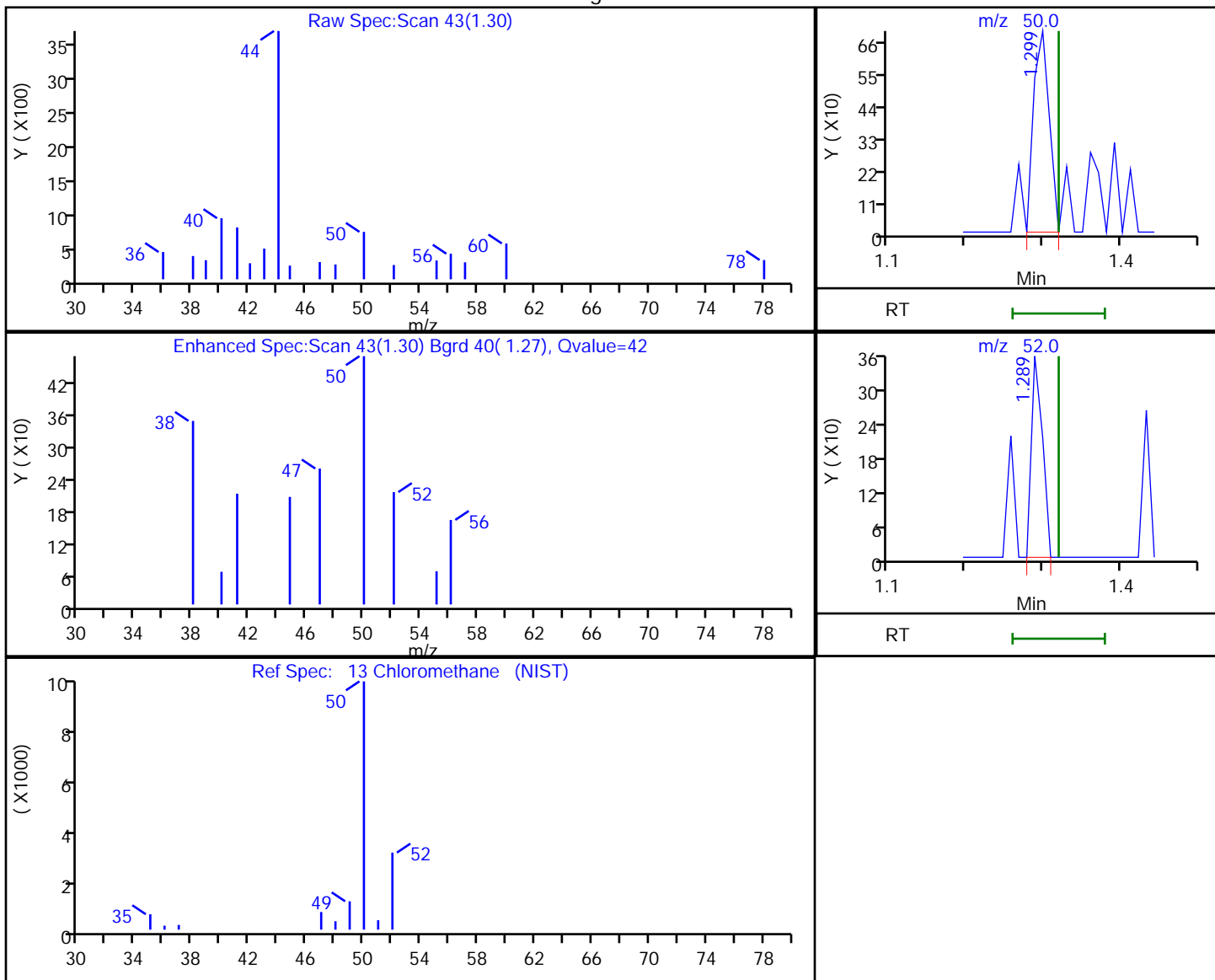


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3133.D  
 Injection Date: 17-Jul-2019 23:35:30 Instrument ID: HP5975T  
 Lims ID: 480-156213-D-4 Lab Sample ID: 480-156213-4  
 Client ID: 356023-MW14B 150  
 Operator ID: AEM ALS Bottle#: 11 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.30	50.00	980	0.094000
1.29	52.00	350	

Reviewer: farrellr, 18-Jul-2019 10:06:04

Audit Action: Marked Compound Undetected

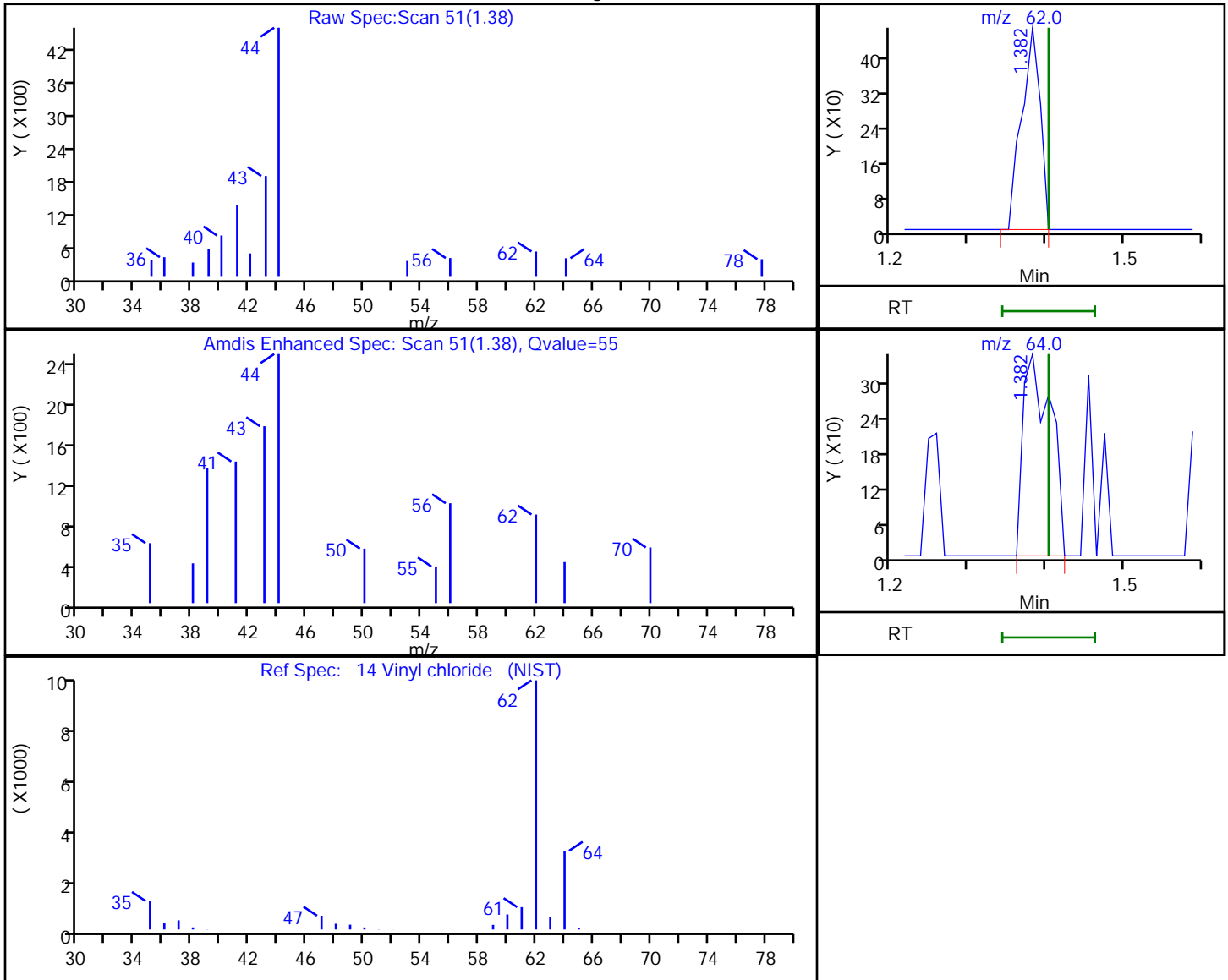
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3133.D  
Injection Date: 17-Jul-2019 23:35:30 Instrument ID: HP5975T  
Lims ID: 480-156213-D-4 Lab Sample ID: 480-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: AEM ALS Bottle#: 11 Worklist Smp#: 12  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.38	62.00	779	0.072820
1.38	64.00	851	

Reviewer: farrellr, 18-Jul-2019 10:06:06

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW12B 190 Lab Sample ID: 480-156213-5  
 Matrix: Water Lab File ID: T3134.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 17:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 23:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	10		1.0	0.38
75-35-4	1,1-Dichloroethene	15		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW12B 190 Lab Sample ID: 480-156213-5  
 Matrix: Water Lab File ID: T3134.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 17:27  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 23:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	3.5		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3134.D  
 Lims ID: 480-156213-D-5  
 Client ID: 356023-MW12B 190  
 Sample Type: Client  
 Inject. Date: 17-Jul-2019 23:59:30 ALS Bottle#: 12 Worklist Smp#: 13  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-5  
 Misc. Info.: 480-0082700-013  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 12:03:03 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 12:03:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	165118	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	745393	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	434549	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	93	244431	26.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	274598	26.2	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	875329	23.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	320735	26.2	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.335	2.335	-0.011	99	116076	15.3	
23 Acetone	43	2.460	2.460	0.000	98	4578	1.79	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	86	6114	0.1875	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	96	150154	10.4	
43 cis-1,2-Dichloroethene	96		3.838				ND	Ua
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	Ua
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	98	59291	5.29	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62	4.522	4.532	-0.010	95	2281	0.1866	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	94	32572	3.52	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3134.D

Injection Date: 17-Jul-2019 23:59:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-5

Lab Sample ID: 480-156213-5

Worklist Smp#: 13

Client ID: 356023-MW12B 190

Purge Vol: 5.000 mL

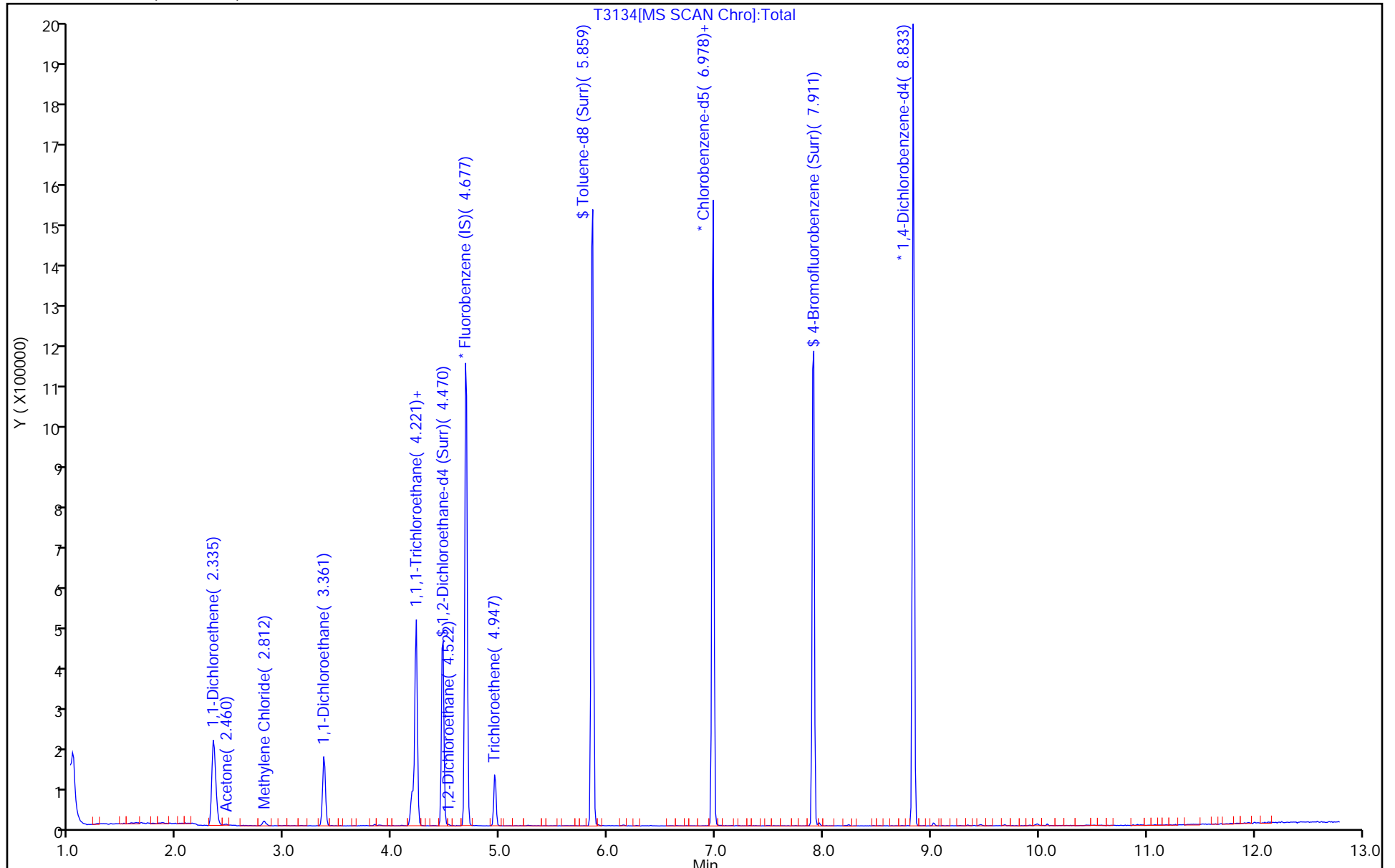
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3134.D

Injection Date: 17-Jul-2019 23:59:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-5

Lab Sample ID: 480-156213-5

Client ID: 356023-MW12B 190

Operator ID: AEM

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

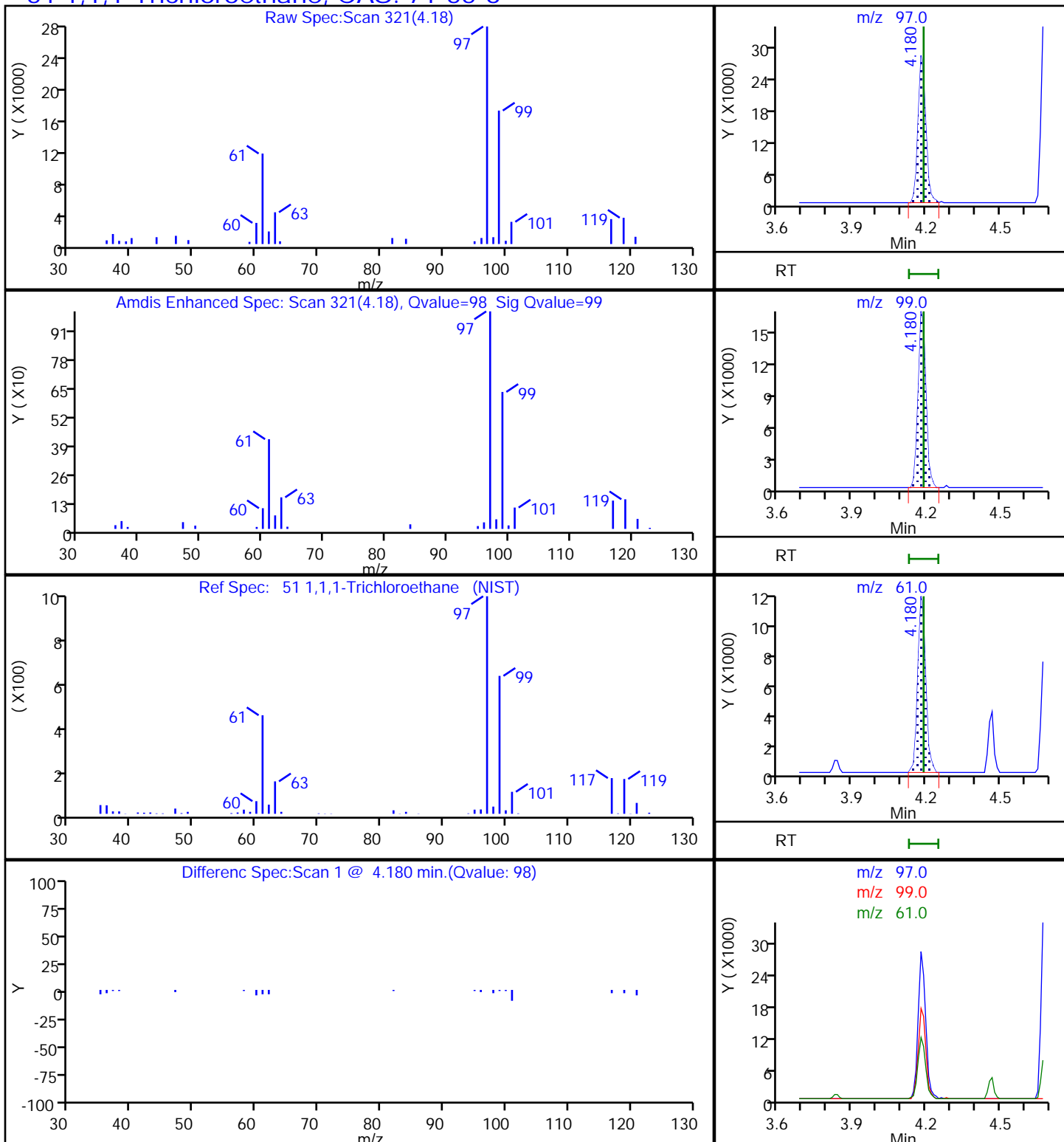
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3134.D

Injection Date: 17-Jul-2019 23:59:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-5

Lab Sample ID: 480-156213-5

Client ID: 356023-MW12B 190

Operator ID: AEM

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

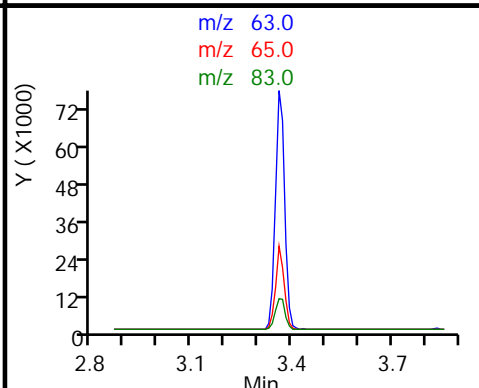
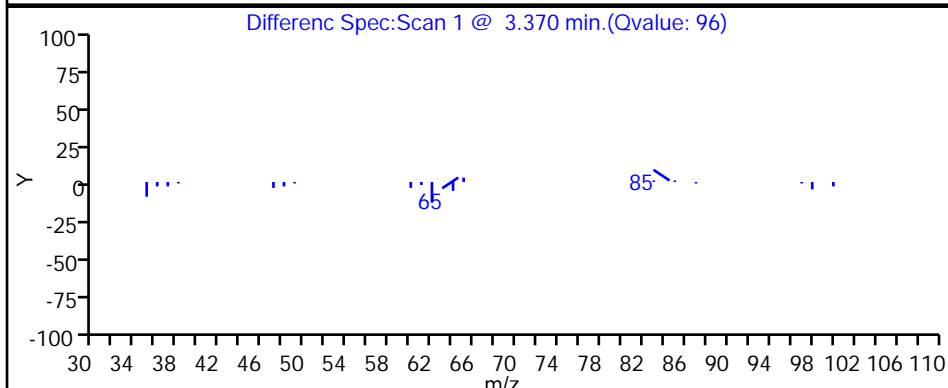
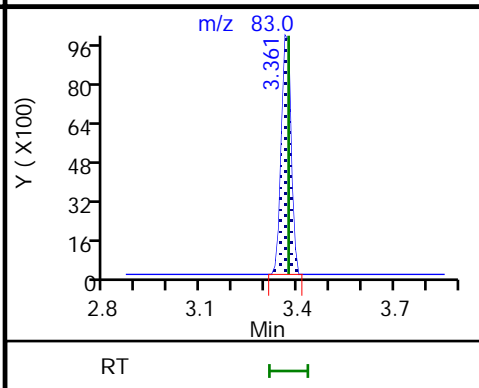
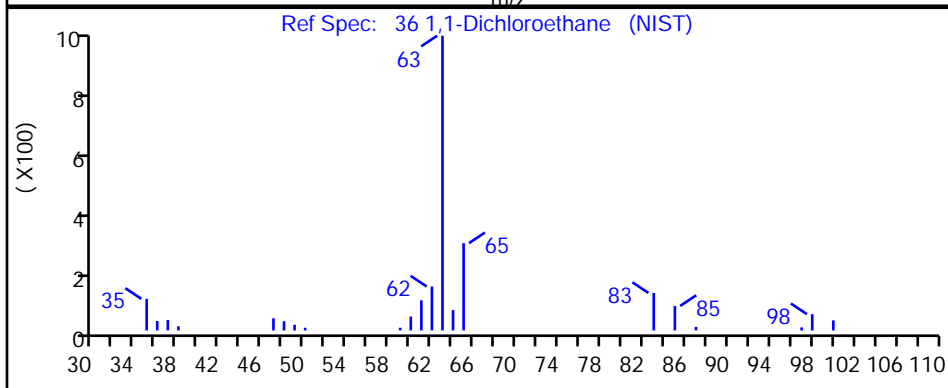
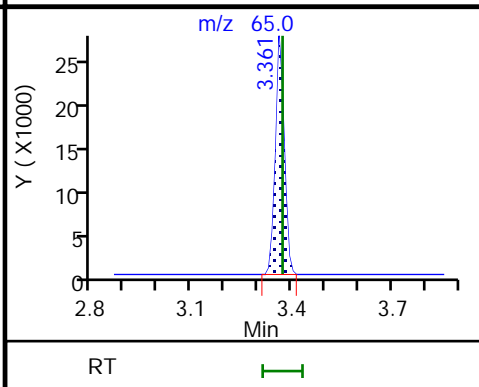
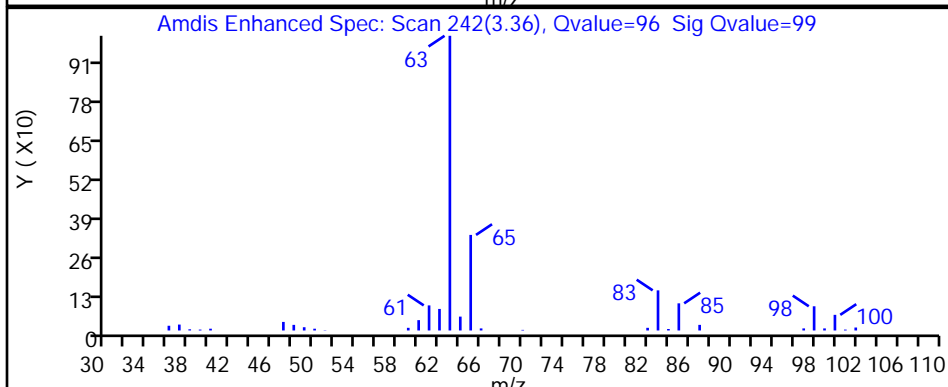
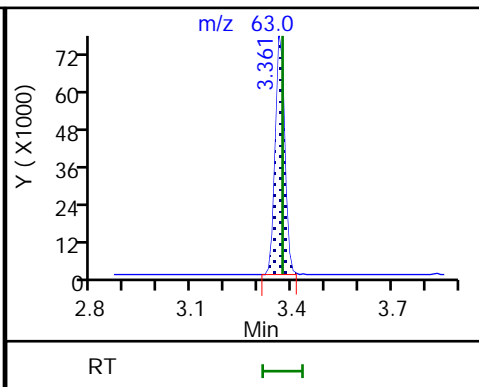
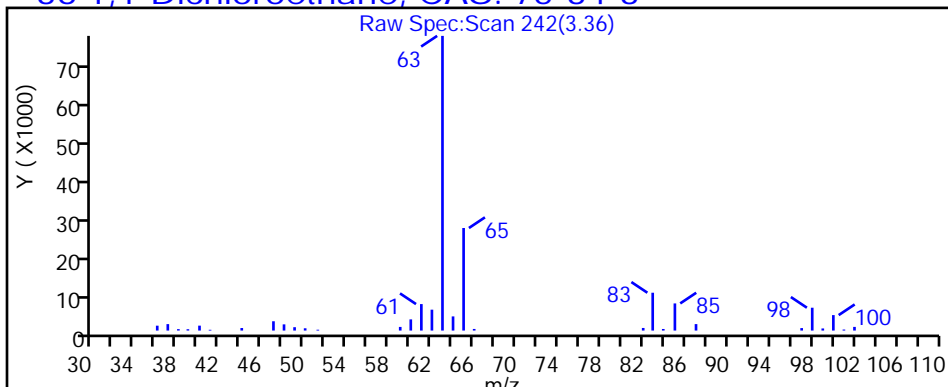
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3134.D

Injection Date: 17-Jul-2019 23:59:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-5

Lab Sample ID: 480-156213-5

Client ID: 356023-MW12B 190

Operator ID: AEM

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

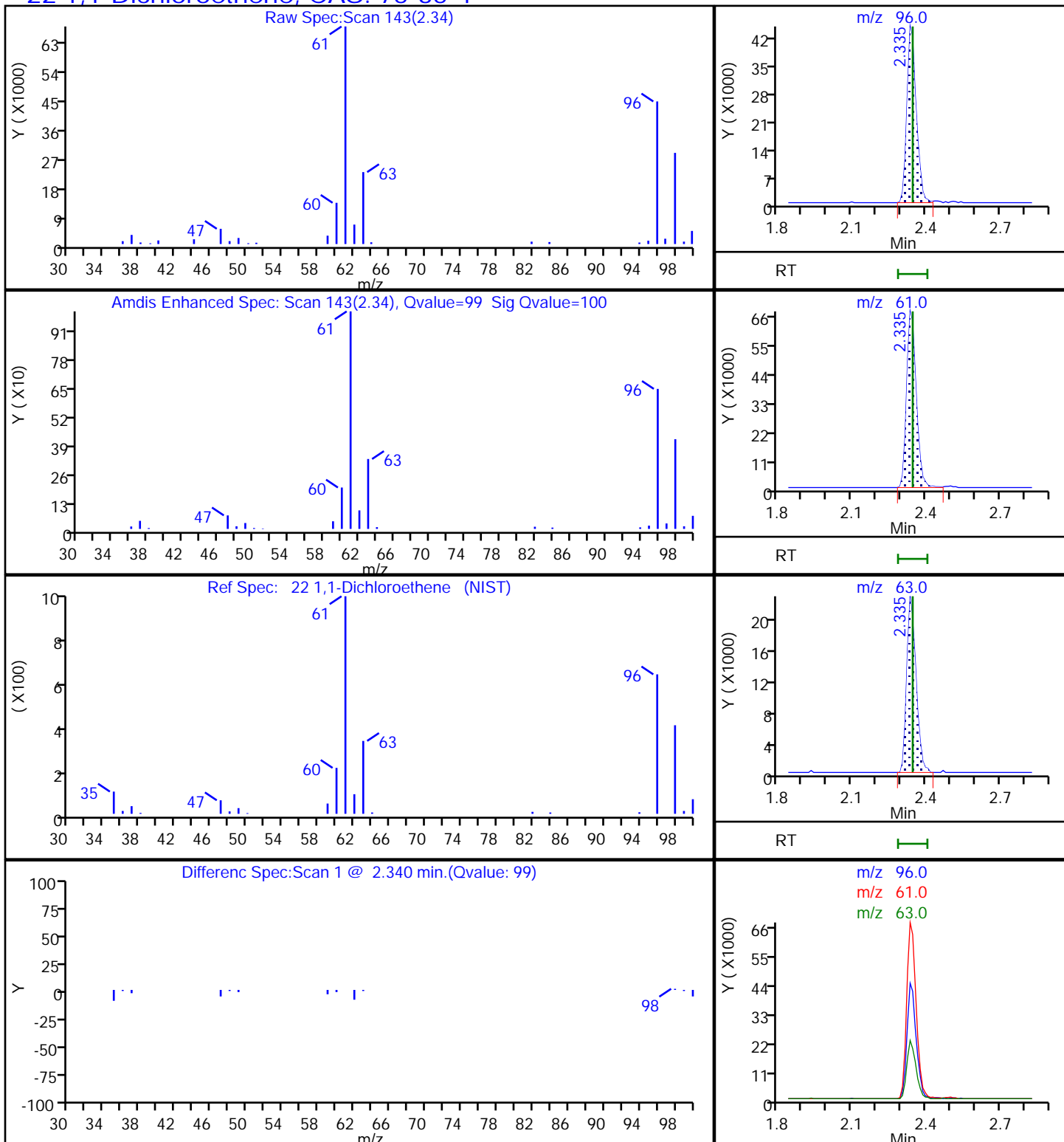
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3134.D

Injection Date: 17-Jul-2019 23:59:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-5

Lab Sample ID: 480-156213-5

Client ID: 356023-MW12B 190

Operator ID: AEM

ALS Bottle#: 12

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

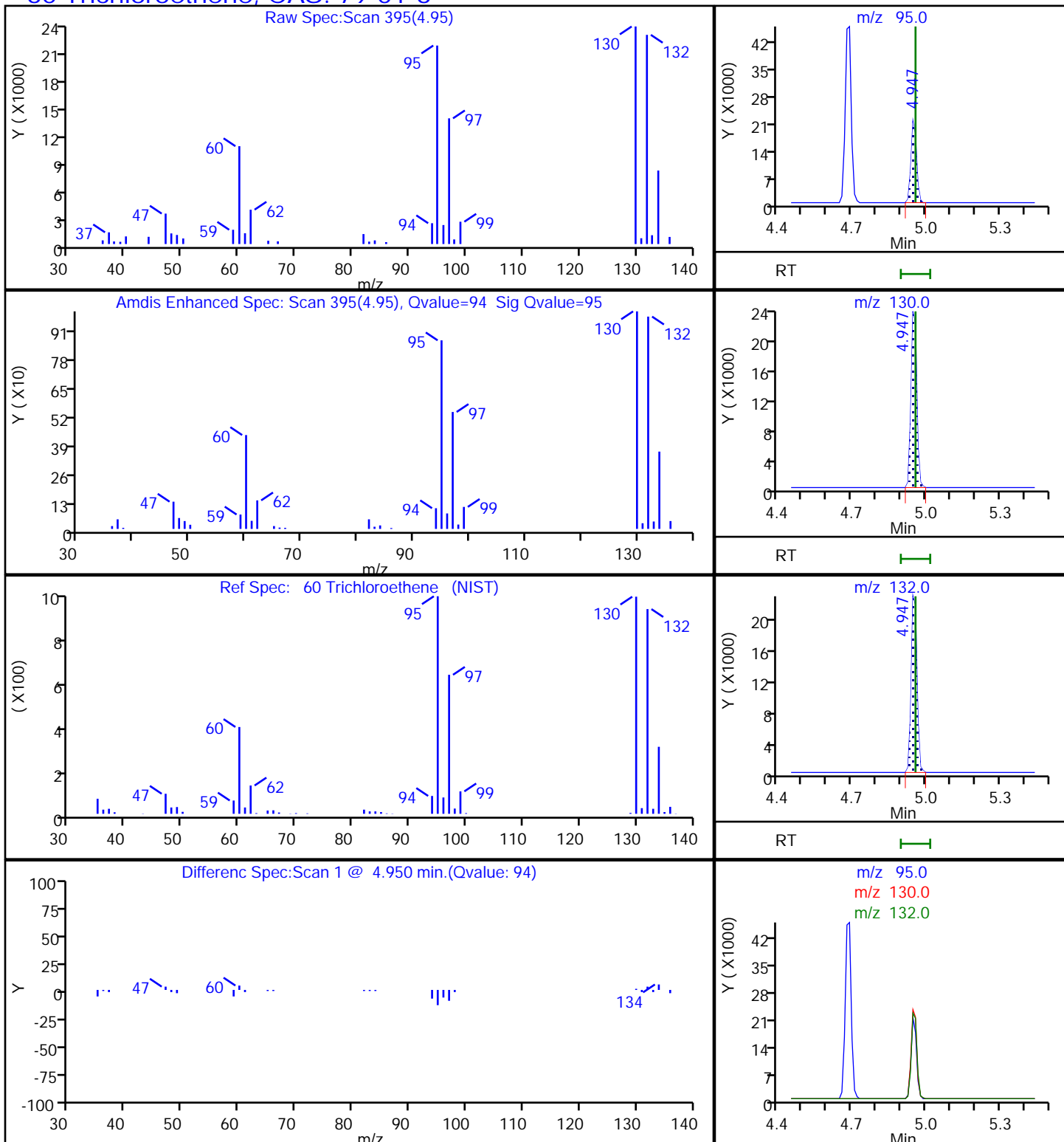
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 60 Trichloroethene, CAS: 79-01-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11B Lab Sample ID: 480-156213-6  
 Matrix: Water Lab File ID: T3135.D  
 Analysis Method: 8260C Date Collected: 07/10/2019 11:37  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 00:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.4		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	2.4		1.0	0.38
75-35-4	1,1-Dichloroethene	4.9		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11B Lab Sample ID: 480-156213-6  
 Matrix: Water Lab File ID: T3135.D  
 Analysis Method: 8260C Date Collected: 07/10/2019 11:37  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 00:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	0.93	J	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3135.D  
 Lims ID: 480-156213-D-6  
 Client ID: 356023-MW11B  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 00:23:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-6  
 Misc. Info.: 480-0082700-014  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 12:03:03 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:23:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	164666	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	746971	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	439942	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	94	238785	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	276297	26.4	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	875294	23.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	319065	26.0	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	97	37187	4.92	
23 Acetone	43	2.449	2.460	-0.011	98	4784	1.88	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	97	6663	0.2514	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	96	35270	2.45	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	97	15447	1.38	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	95	8576	0.9291	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

**Reagents:**

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3135.D

Injection Date: 18-Jul-2019 00:23:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-6

Lab Sample ID: 480-156213-6

Worklist Smp#: 14

Client ID: 356023-MW11B

Purge Vol: 5.000 mL

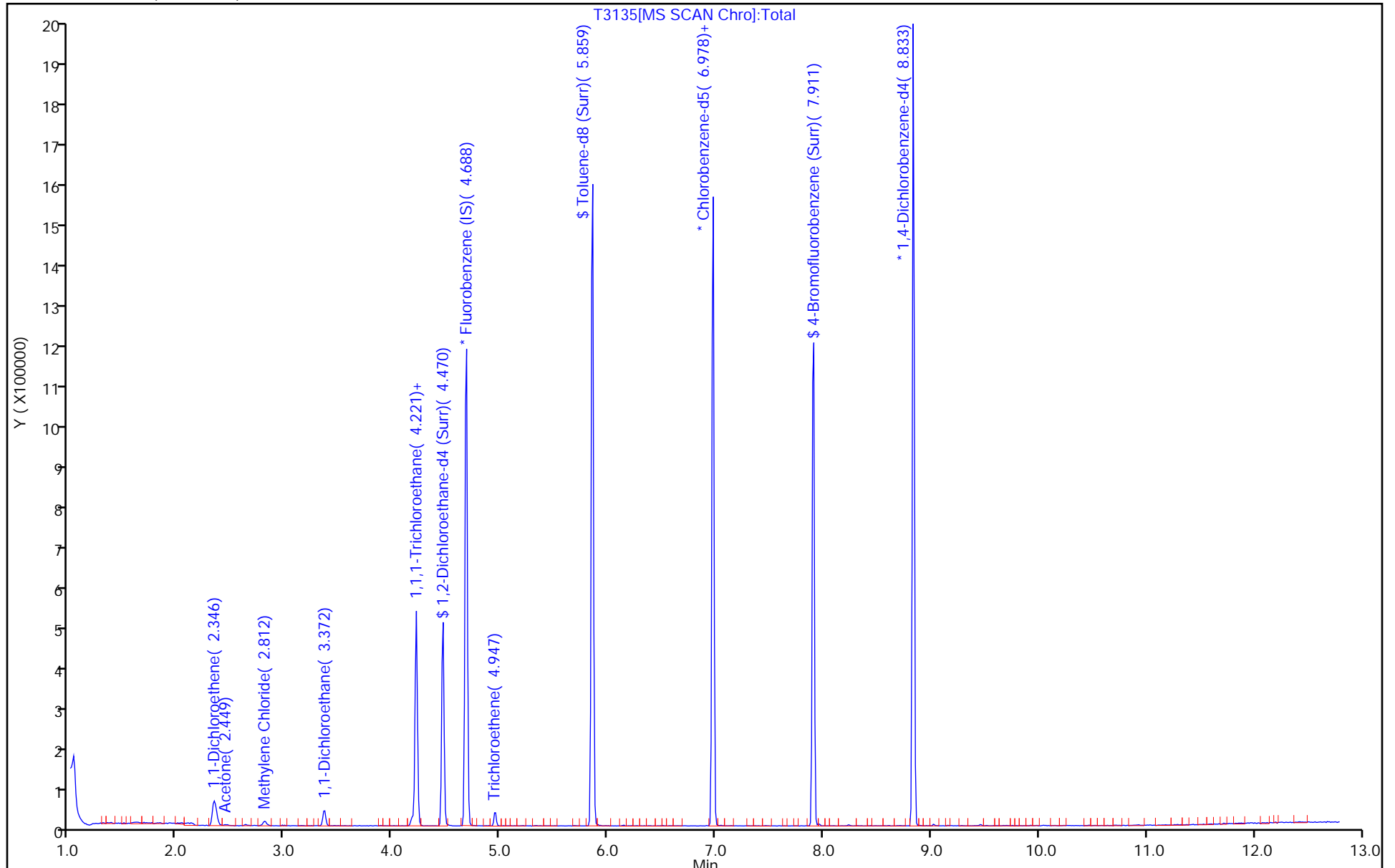
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3135.D

Injection Date: 18-Jul-2019 00:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-6

Lab Sample ID: 480-156213-6

Client ID: 356023-MW11B

Operator ID: AEM

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

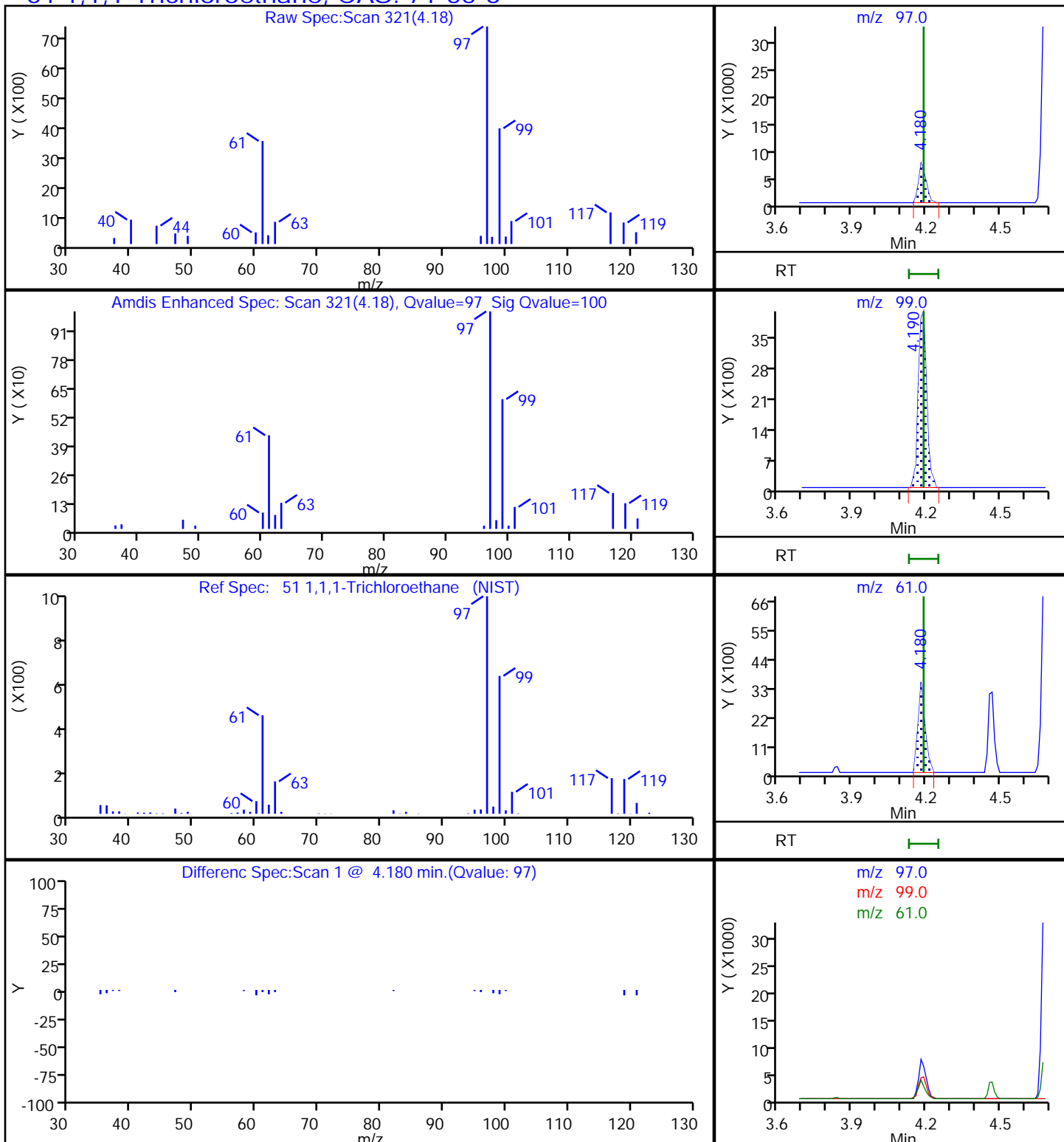
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3135.D

Injection Date: 18-Jul-2019 00:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-6

Lab Sample ID: 480-156213-6

Client ID: 356023-MW11B

Operator ID: AEM

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

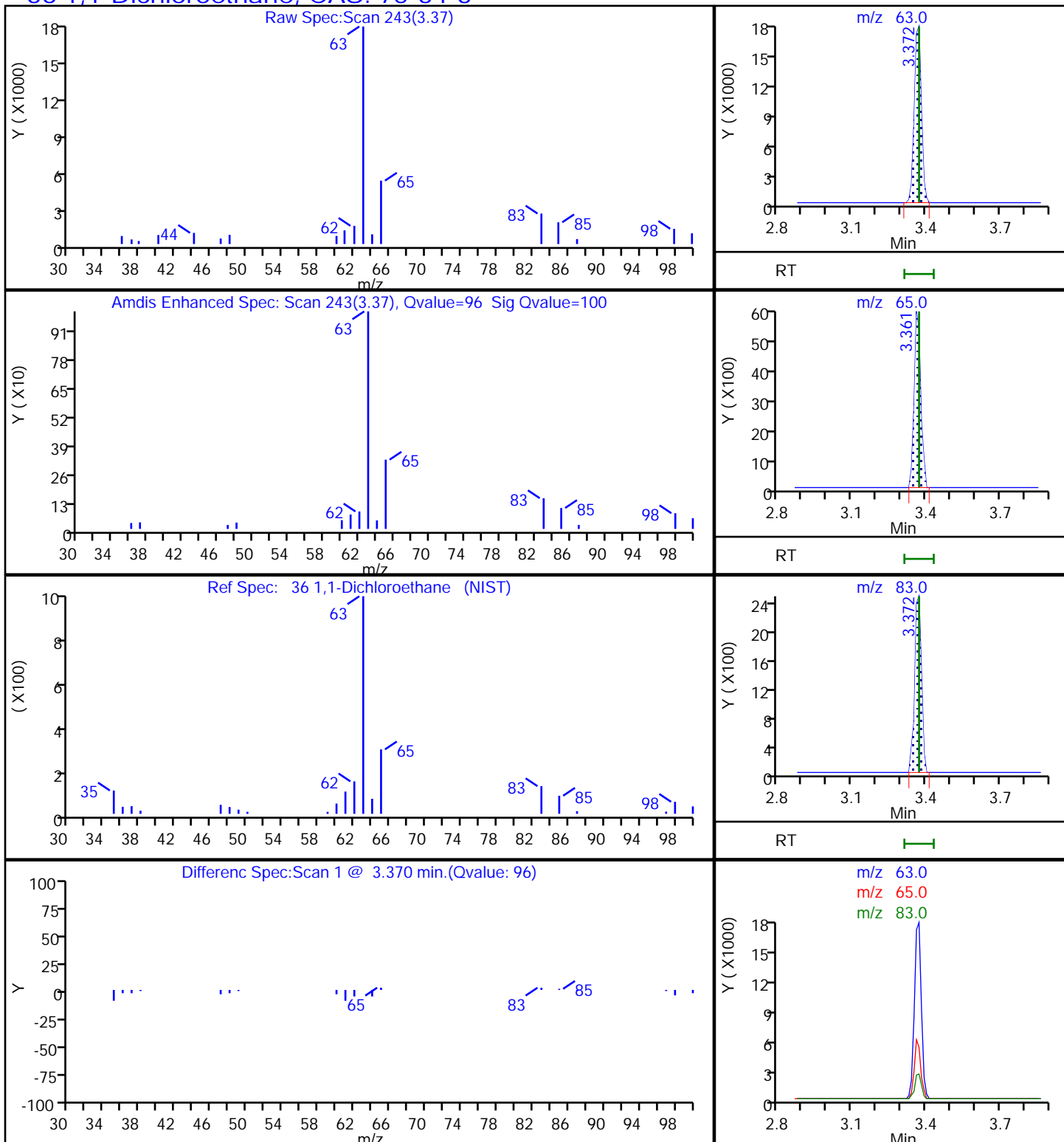
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3135.D

Injection Date: 18-Jul-2019 00:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-6

Lab Sample ID: 480-156213-6

Client ID: 356023-MW11B

Operator ID: AEM

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

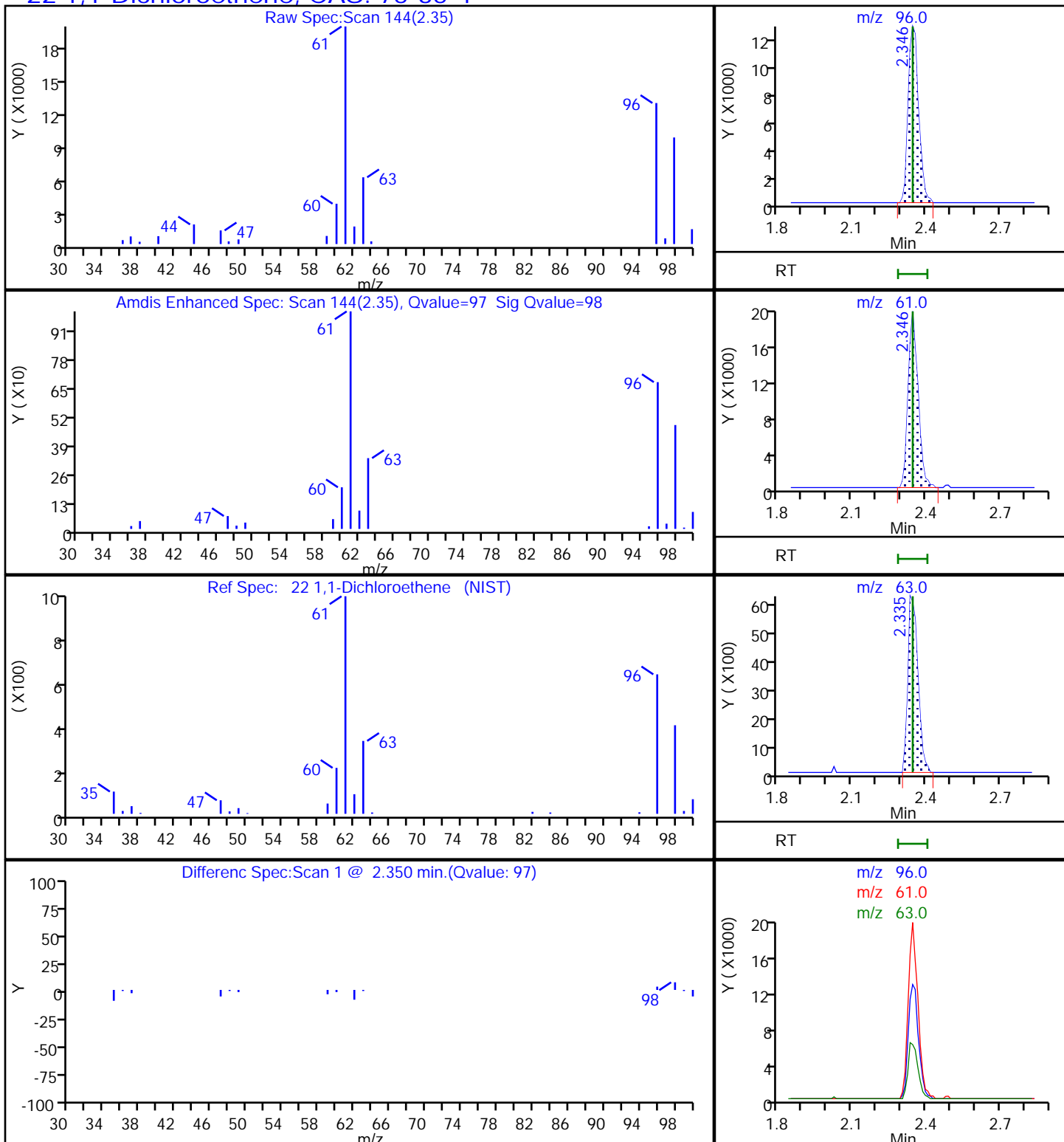
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3135.D

Injection Date: 18-Jul-2019 00:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-6

Lab Sample ID: 480-156213-6

Client ID: 356023-MW11B

Operator ID: AEM

ALS Bottle#: 13

Worklist Smp#: 14

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

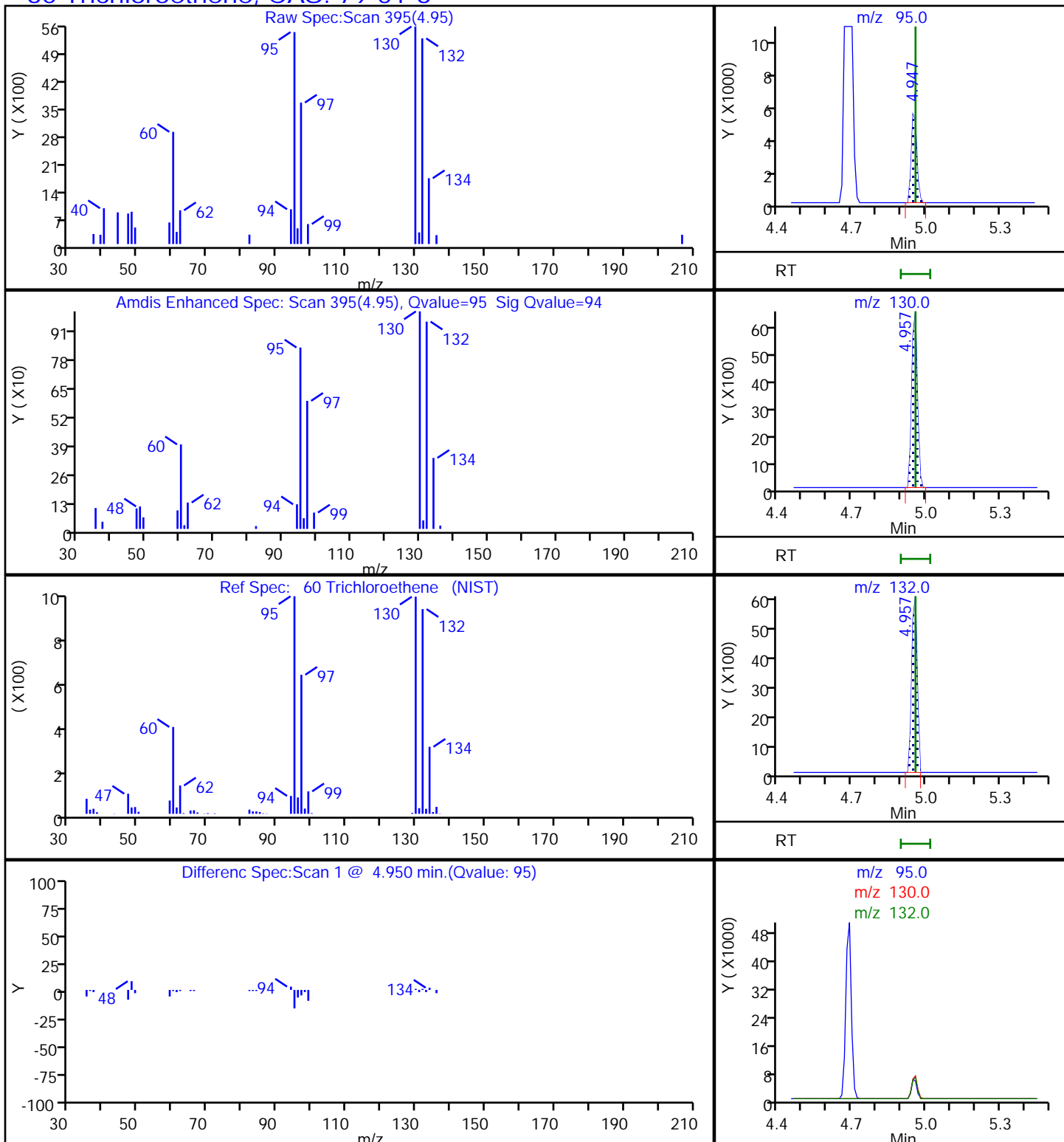
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 60 Trichloroethene, CAS: 79-01-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11C Lab Sample ID: 480-156213-7  
 Matrix: Water Lab File ID: T3136.D  
 Analysis Method: 8260C Date Collected: 07/10/2019 15:23  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 00:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	0.80	J	1.0	0.38
75-35-4	1,1-Dichloroethene	3.2		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11C Lab Sample ID: 480-156213-7  
 Matrix: Water Lab File ID: T3136.D  
 Analysis Method: 8260C Date Collected: 07/10/2019 15:23  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 00:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	0.64	J	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3136.D  
 Lims ID: 480-156213-D-7  
 Client ID: 356023-MW11C  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 00:47:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-7  
 Misc. Info.: 480-0082700-015  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:23:55 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 13:23:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	166625	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	747080	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	428634	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	93	237691	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.470	-0.010	0	272864	25.8	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	92	873392	23.8	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	325867	26.5	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.335	2.335	-0.011	98	24200	3.17	
23 Acetone	43	2.449	2.460	-0.011	92	7323	2.84	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	88	7473	0.3329	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	95	11717	0.8028	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	98	24698	2.18	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	90	5970	0.6392	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	U
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3136.D

Injection Date: 18-Jul-2019 00:47:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-7

Lab Sample ID: 480-156213-7

Worklist Smp#: 15

Client ID: 356023-MW11C

Purge Vol: 5.000 mL

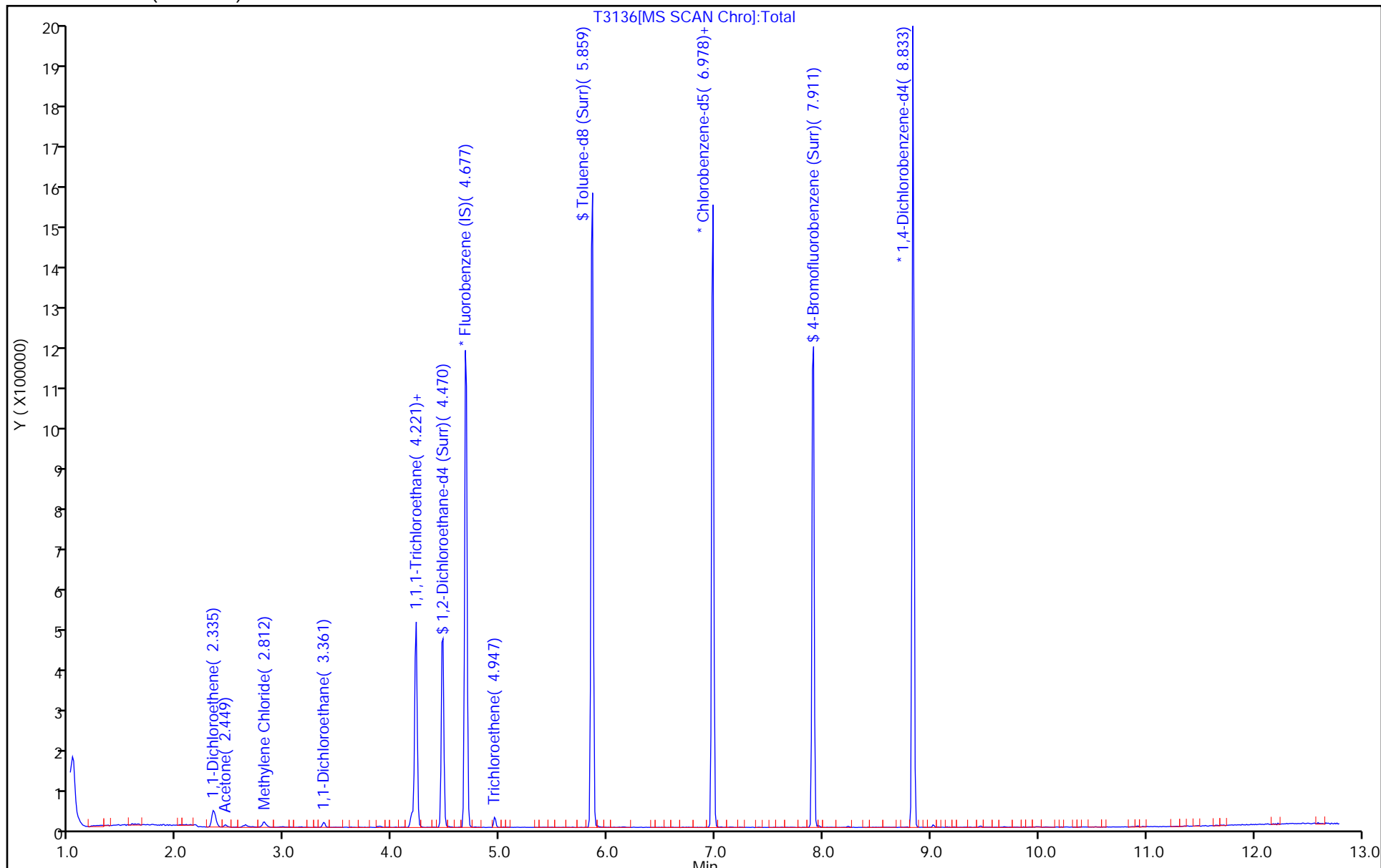
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3136.D

Injection Date: 18-Jul-2019 00:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-7

Lab Sample ID: 480-156213-7

Client ID: 356023-MW11C

Operator ID: AEM

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

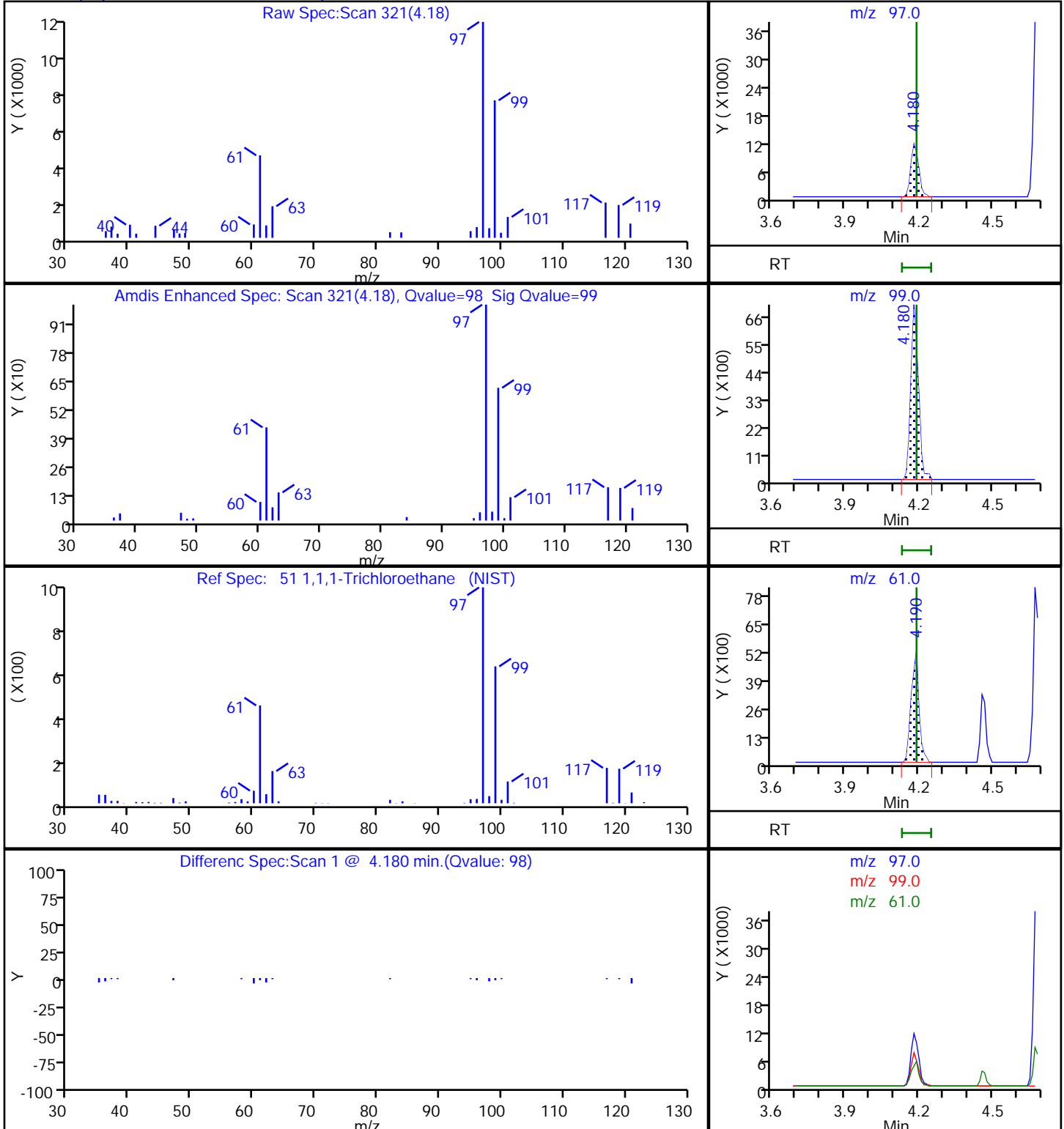
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3136.D

Injection Date: 18-Jul-2019 00:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-7

Lab Sample ID: 480-156213-7

Client ID: 356023-MW11C

Operator ID: AEM

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

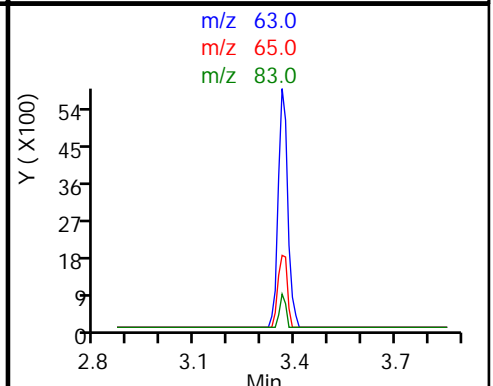
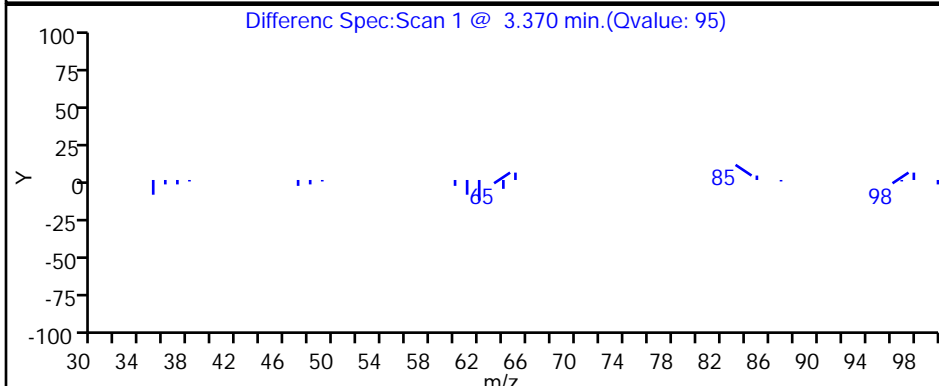
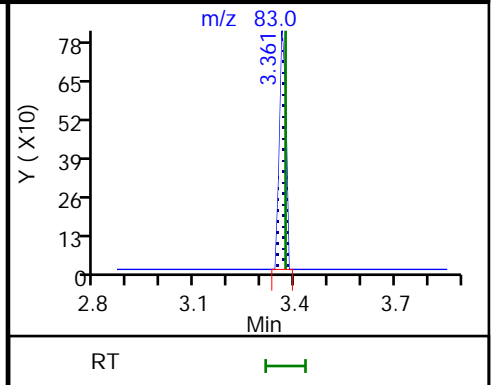
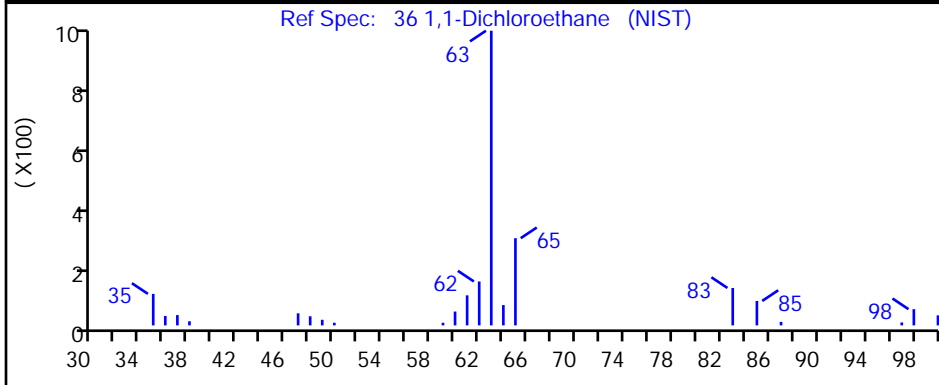
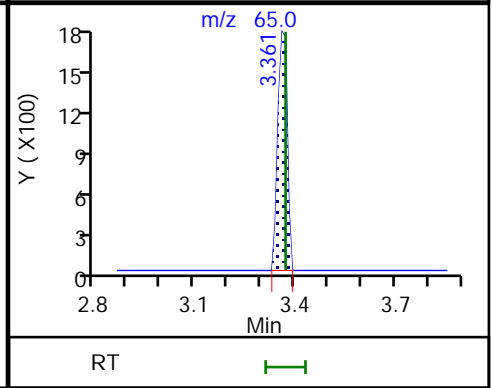
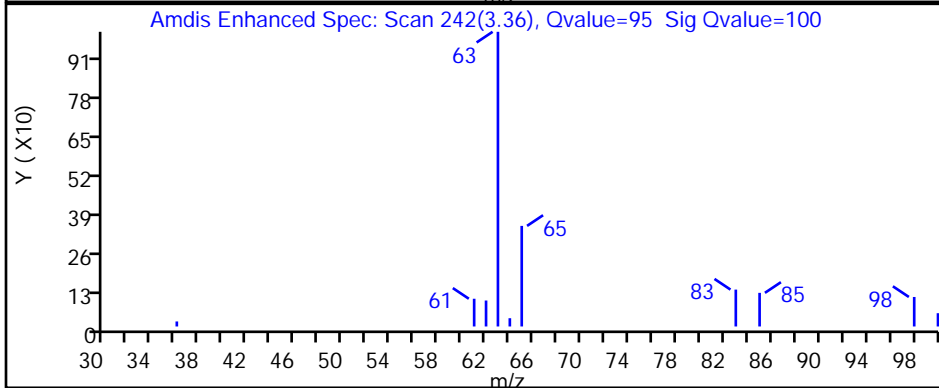
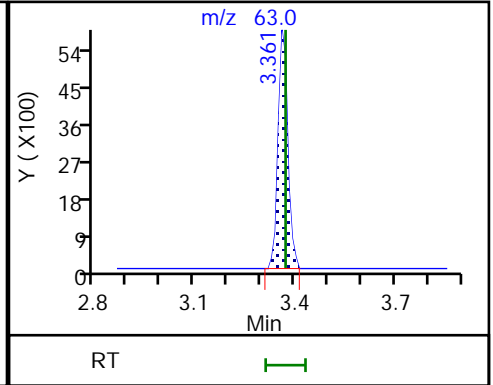
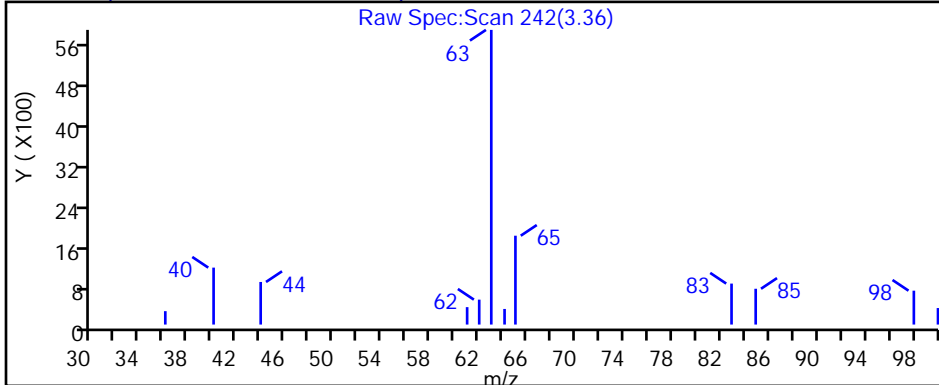
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3136.D

Injection Date: 18-Jul-2019 00:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-7

Lab Sample ID: 480-156213-7

Client ID: 356023-MW11C

Operator ID: AEM

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

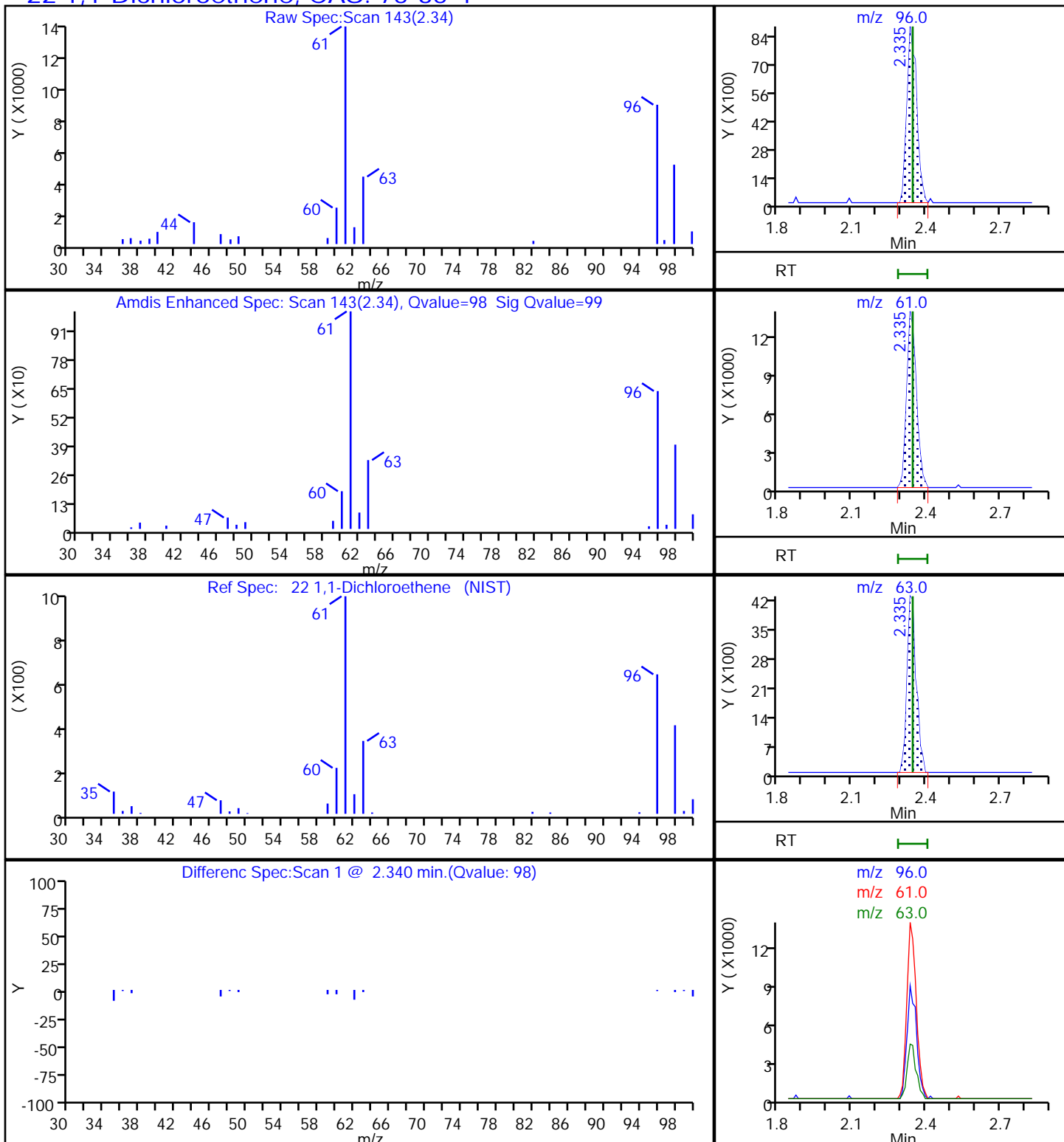
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3136.D

Injection Date: 18-Jul-2019 00:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-7

Lab Sample ID: 480-156213-7

Client ID: 356023-MW11C

Operator ID: AEM

ALS Bottle#: 14

Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

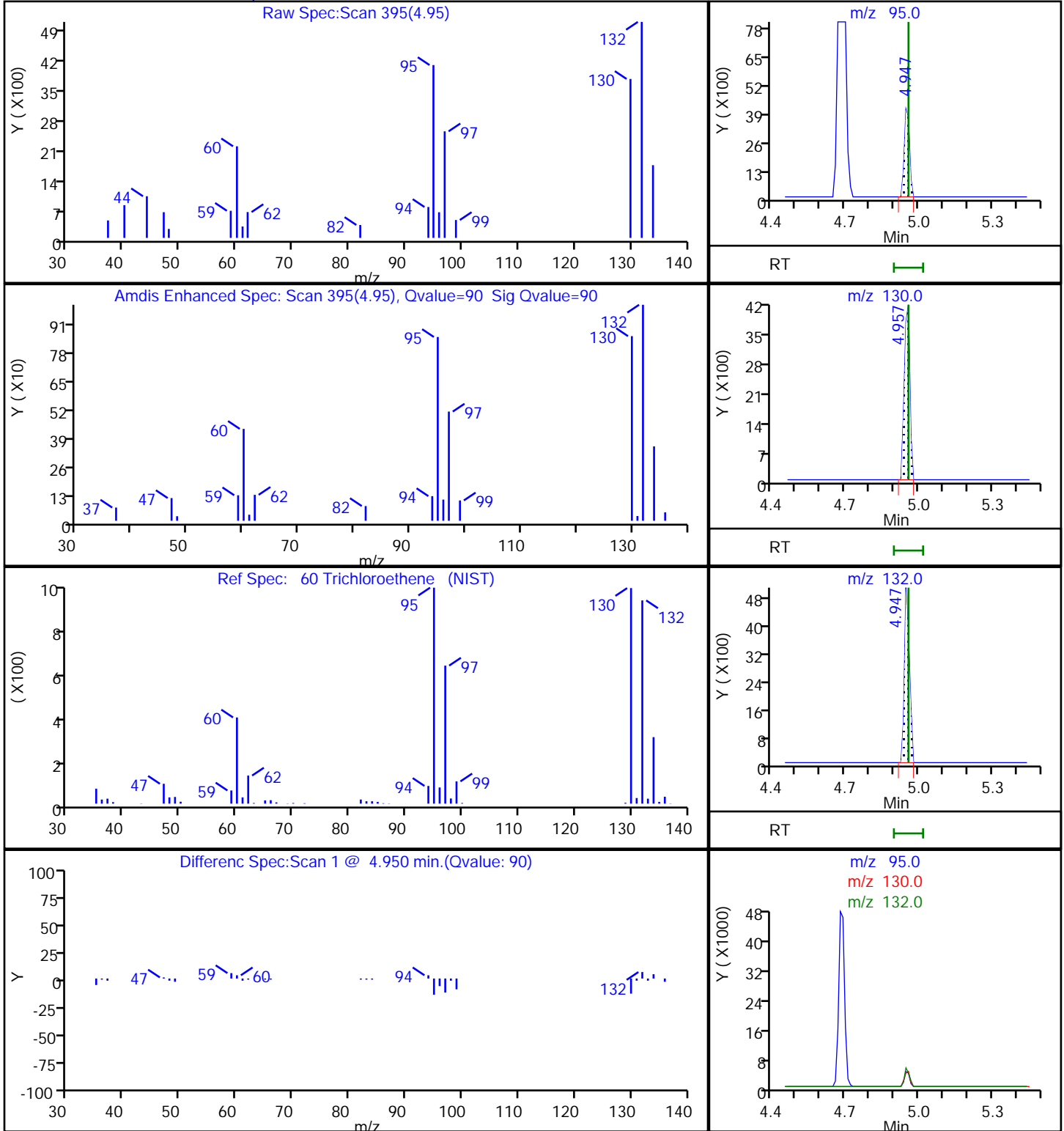
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

**60 Trichloroethene, CAS: 79-01-6**



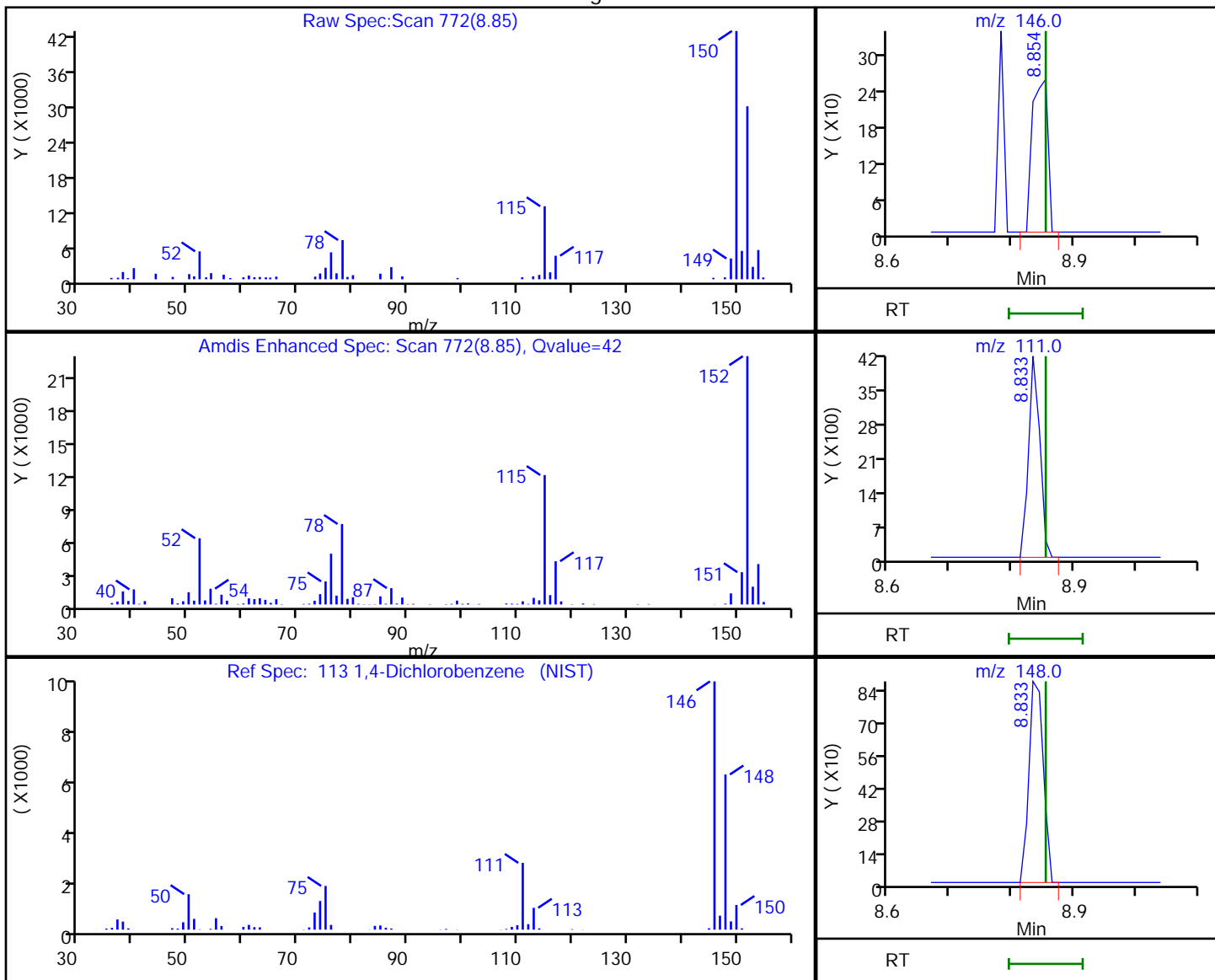


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3136.D  
 Injection Date: 18-Jul-2019 00:47:30 Instrument ID: HP5975T  
 Lims ID: 480-156213-D-7 Lab Sample ID: 480-156213-7  
 Client ID: 356023-MW11C  
 Operator ID: AEM ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
8.85	146.00	440	0.017237
8.83	111.00	5301	
8.83	148.00	1428	

Reviewer: farrellr, 18-Jul-2019 13:23:51

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1801 Lab Sample ID: 480-156213-8  
 Matrix: Water Lab File ID: T3137.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 11:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 01:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	1.1		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1801 Lab Sample ID: 480-156213-8  
 Matrix: Water Lab File ID: T3137.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 11:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 01:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3137.D  
 Lims ID: 480-156213-D-8  
 Client ID: 356023-MW1801  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 01:11:30 ALS Bottle#: 15 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-8  
 Misc. Info.: 480-0082700-016  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:24:37 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 13:24:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	166523	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	743289	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	433147	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	93	241674	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	273975	25.9	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	879758	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	315654	25.8	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	U
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96		2.346				ND	MUa
23 Acetone	43	2.460	2.460	0.000	97	4039	1.57	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	94	6713	0.2486	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	96	15651	1.07	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3137.D

Injection Date: 18-Jul-2019 01:11:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-8

Lab Sample ID: 480-156213-8

Worklist Smp#: 16

Client ID: 356023-MW1801

Purge Vol: 5.000 mL

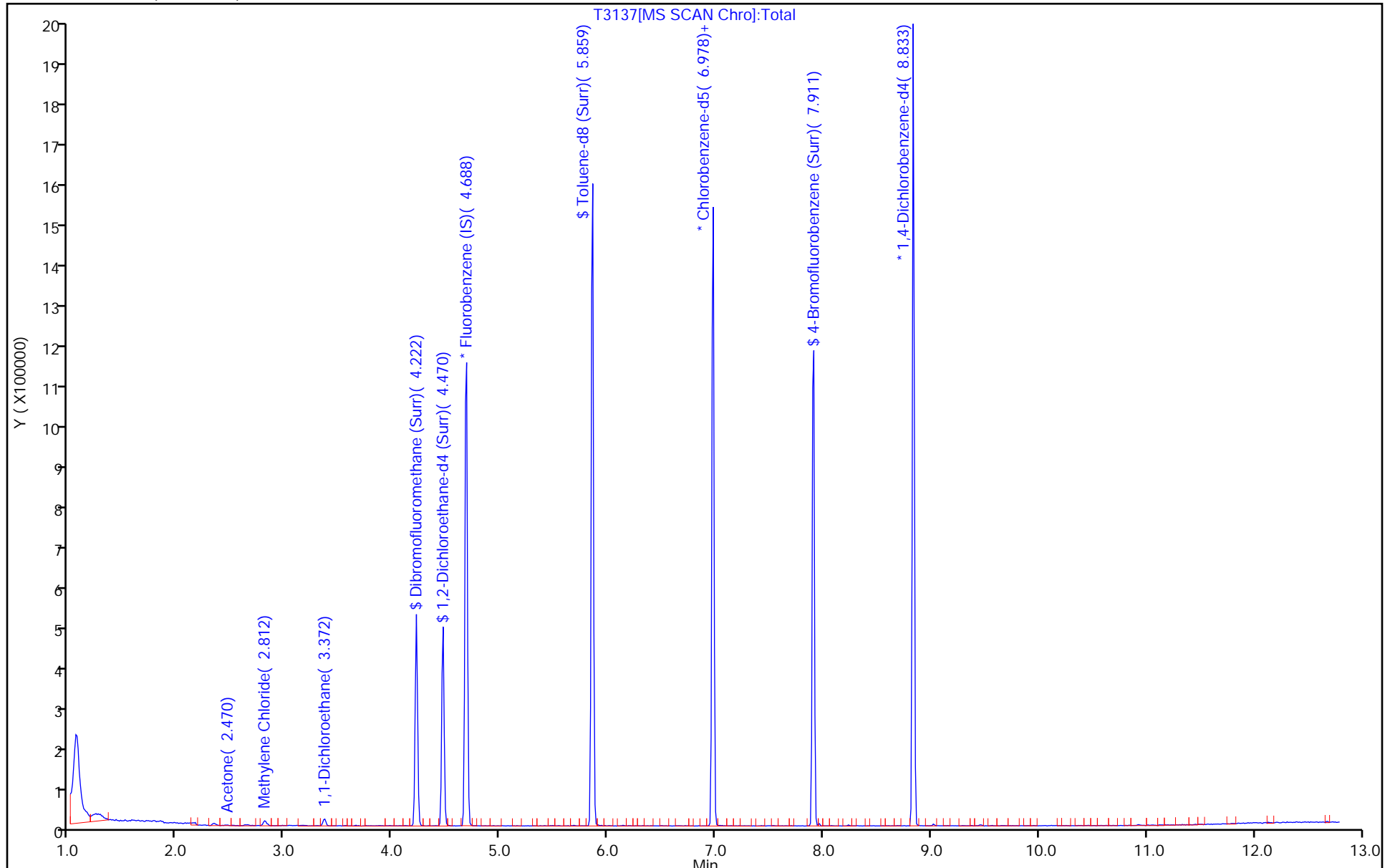
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3137.D

Injection Date: 18-Jul-2019 01:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-8

Lab Sample ID: 480-156213-8

Client ID: 356023-MW1801

Operator ID: AEM

ALS Bottle#: 15

Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

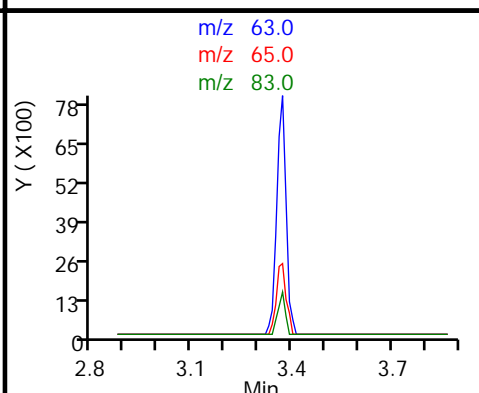
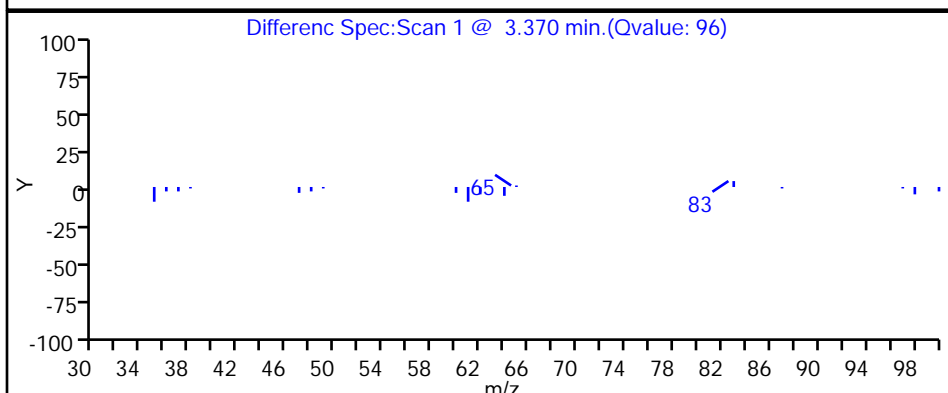
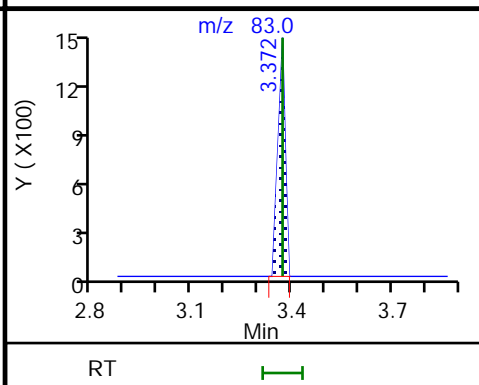
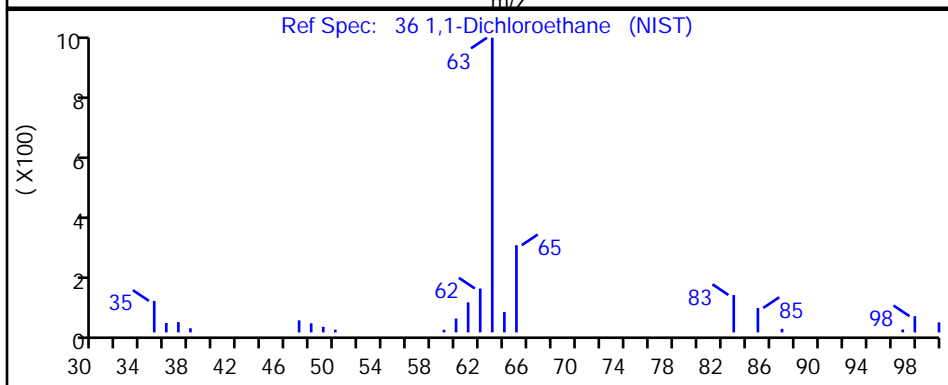
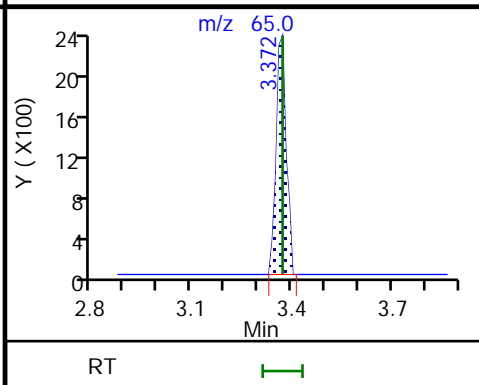
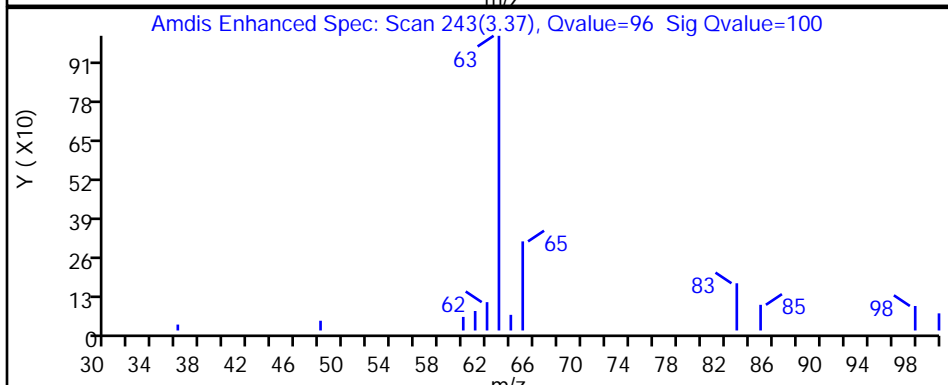
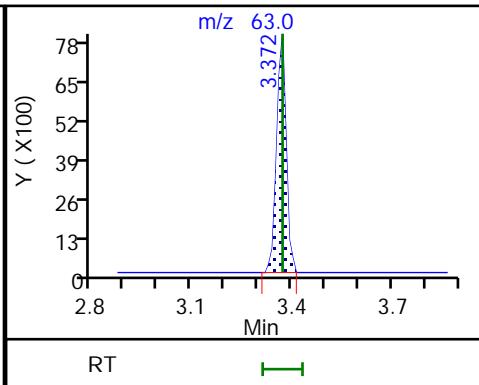
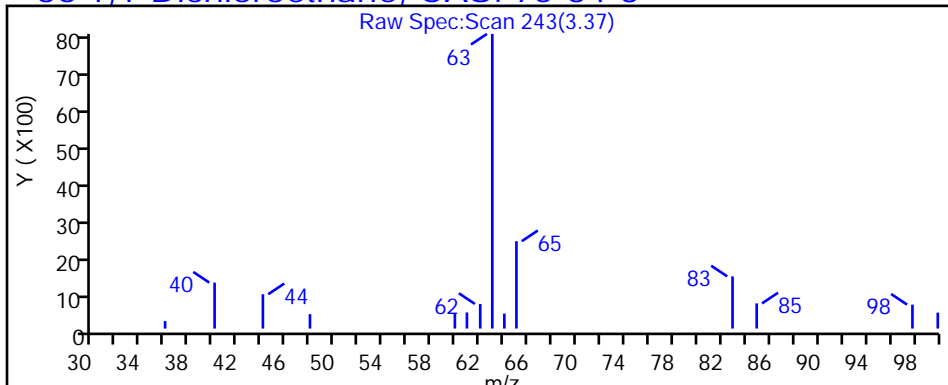
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

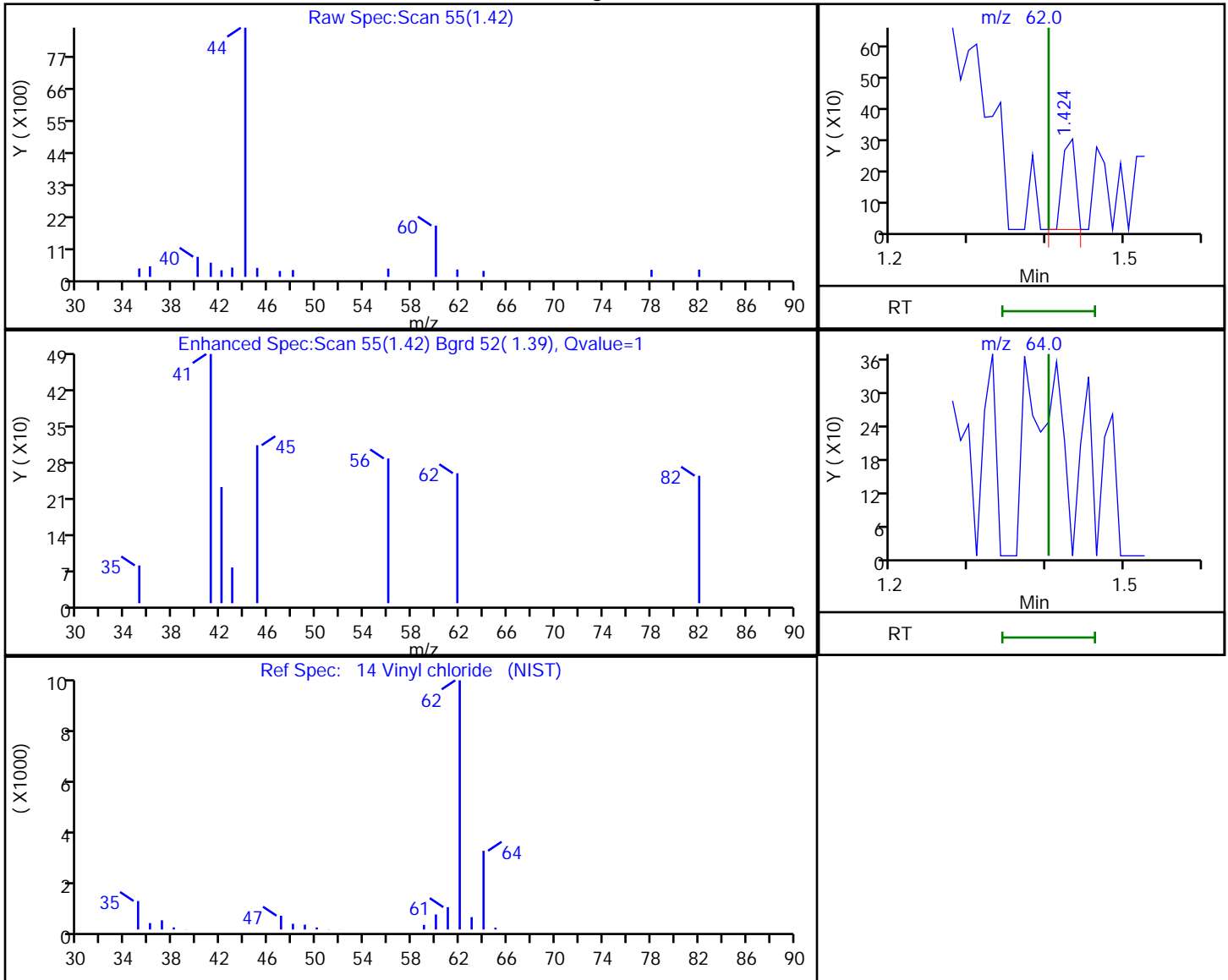


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3137.D  
 Injection Date: 18-Jul-2019 01:11:30 Instrument ID: HP5975T  
 Lims ID: 480-156213-D-8 Lab Sample ID: 480-156213-8  
 Client ID: 356023-MW1801  
 Operator ID: AEM ALS Bottle#: 15 Worklist Smp#: 16  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.42	62.00	340	0.032240
1.40	64.00	0	

Reviewer: farrellr, 18-Jul-2019 13:24:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1802 Lab Sample ID: 480-156213-9  
 Matrix: Water Lab File ID: T3138.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 11:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 01:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	1.4		1.0	0.38
75-35-4	1,1-Dichloroethene	0.46	J	1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1802 Lab Sample ID: 480-156213-9  
 Matrix: Water Lab File ID: T3138.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 11:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 01:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3138.D  
 Lims ID: 480-156213-D-9  
 Client ID: 356023-MW1802  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 01:35:30 ALS Bottle#: 16 Worklist Smp#: 17  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-9  
 Misc. Info.: 480-0082700-017  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:26:56 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 13:26:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	167637	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	745253	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	434007	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	93	240136	25.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	273139	25.7	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	882487	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	324200	26.4	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	U
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	96	3502	0.4555	
23 Acetone	43		2.460				ND	U
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.823	2.823	0.000	90	6416	0.2106	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	96	21210	1.44	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3138.D

Injection Date: 18-Jul-2019 01:35:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-9

Lab Sample ID: 480-156213-9

Worklist Smp#: 17

Client ID: 356023-MW1802

Purge Vol: 5.000 mL

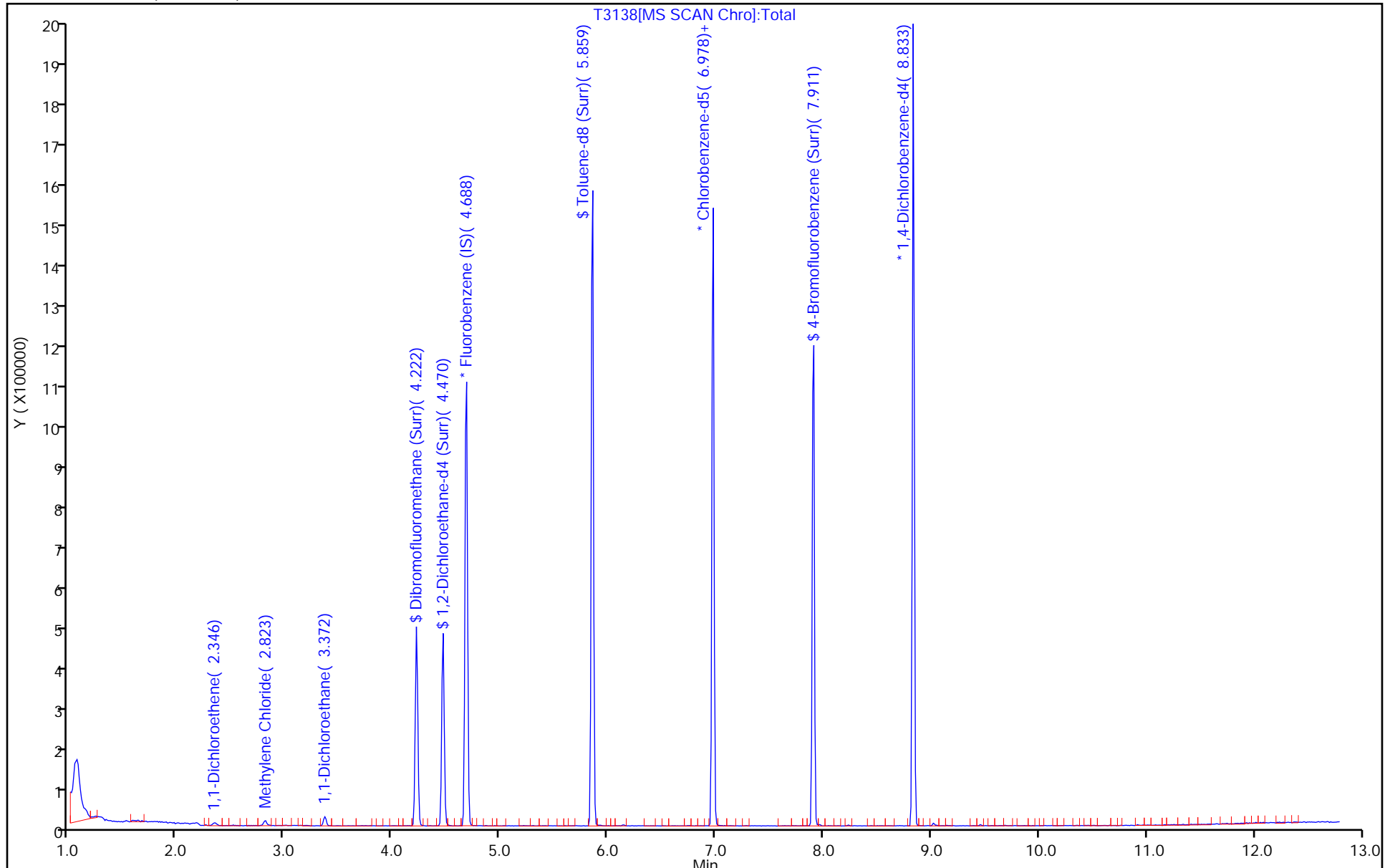
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3138.D

Injection Date: 18-Jul-2019 01:35:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-9

Lab Sample ID: 480-156213-9

Client ID: 356023-MW1802

Operator ID: AEM

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

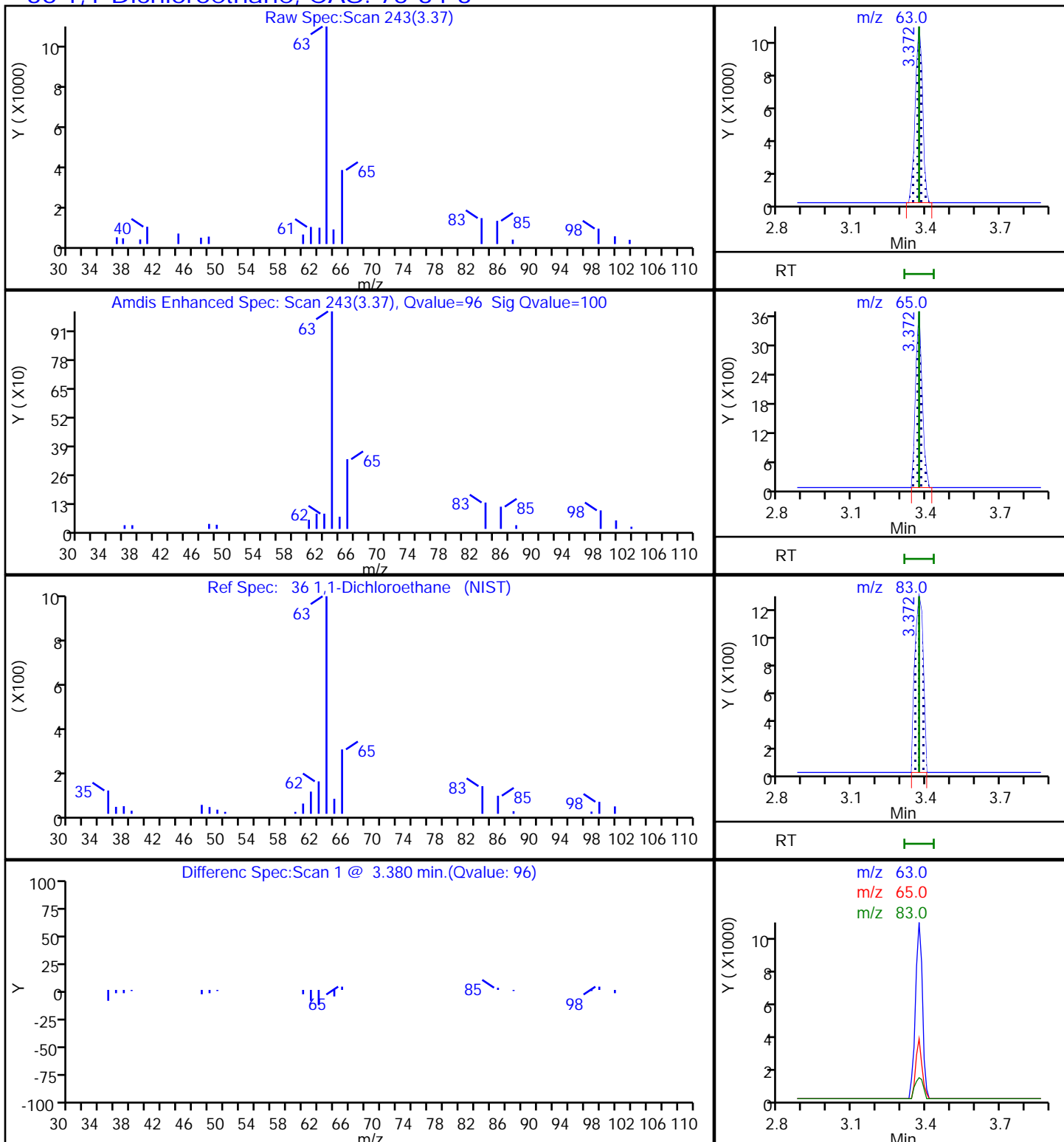
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3138.D

Injection Date: 18-Jul-2019 01:35:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-9

Lab Sample ID: 480-156213-9

Client ID: 356023-MW1802

Operator ID: AEM

ALS Bottle#: 16

Worklist Smp#: 17

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

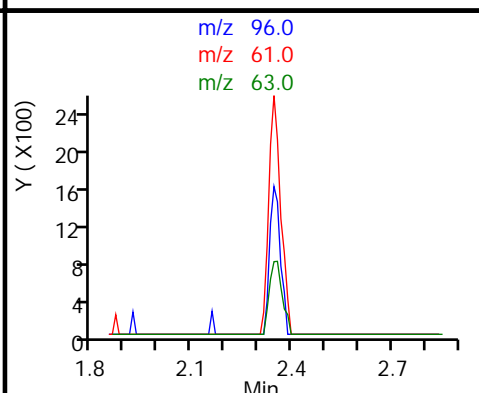
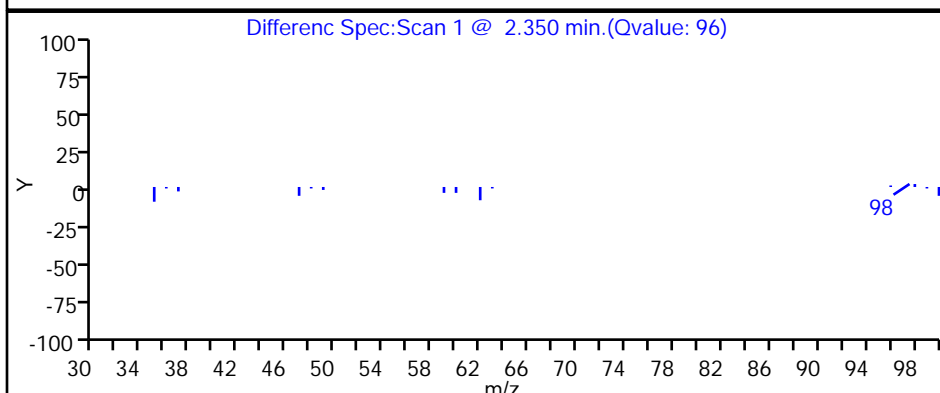
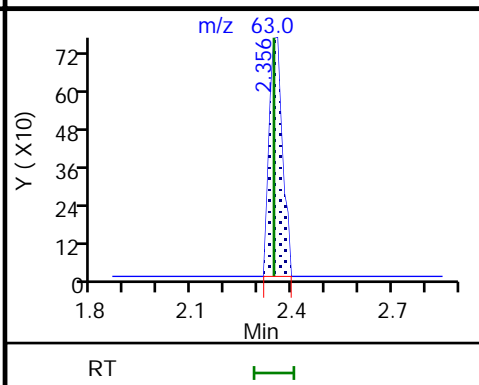
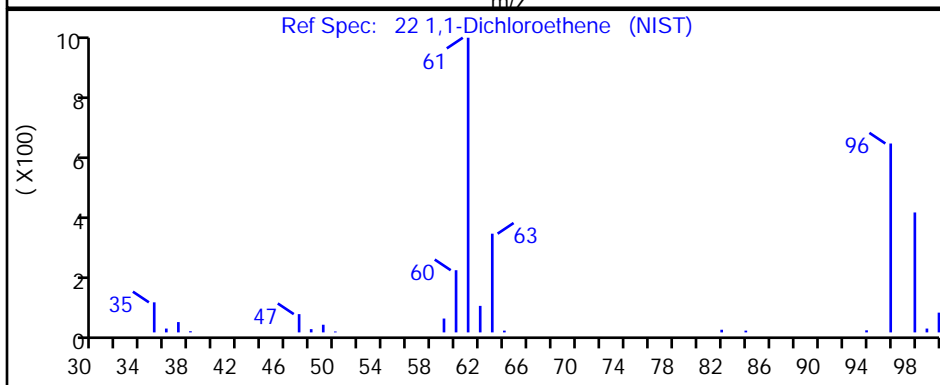
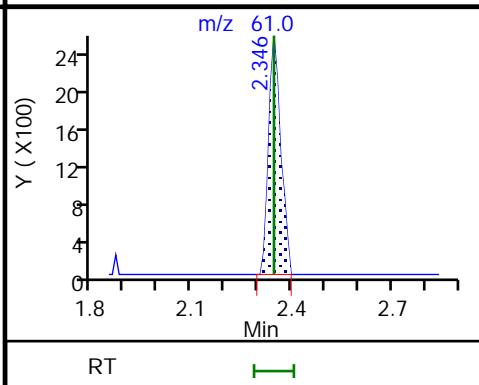
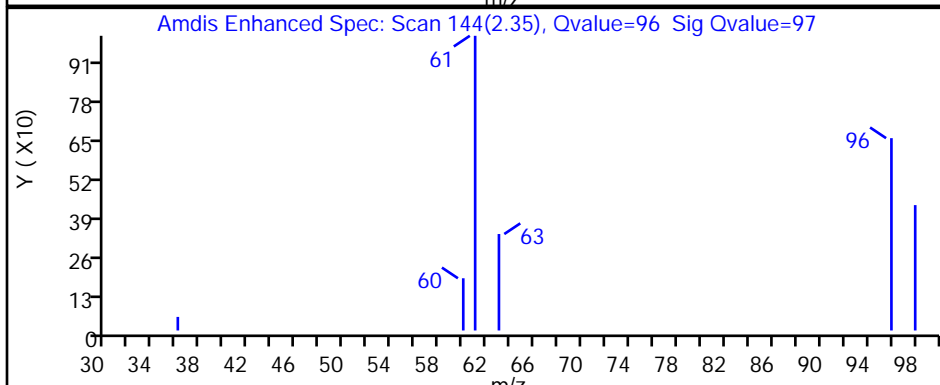
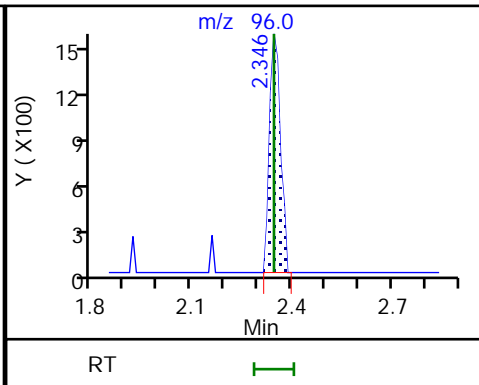
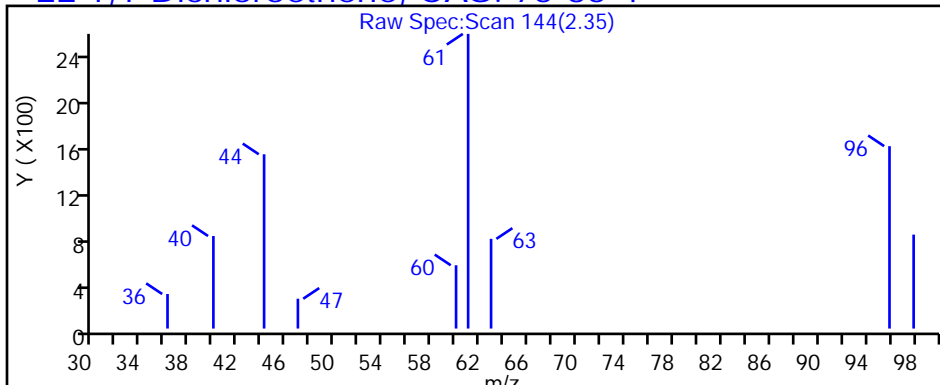
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

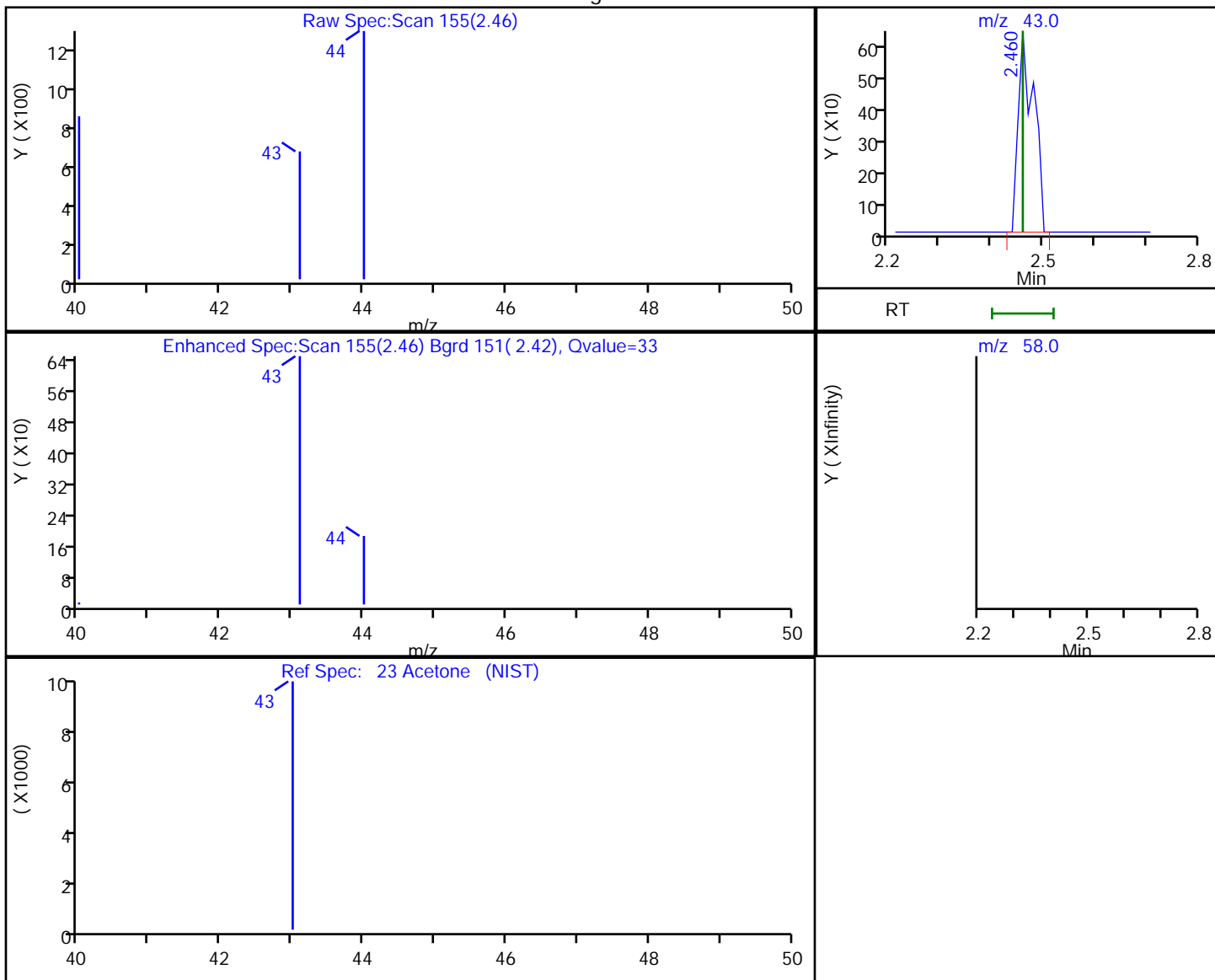


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3138.D  
 Injection Date: 18-Jul-2019 01:35:30 Instrument ID: HP5975T  
 Lims ID: 480-156213-D-9 Lab Sample ID: 480-156213-9  
 Client ID: 356023-MW1802  
 Operator ID: AEM ALS Bottle#: 16 Worklist Smp#: 17  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.46	43.00	1339	0.516920
2.46	58.00	0	

Reviewer: farrellr, 18-Jul-2019 13:26:07

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

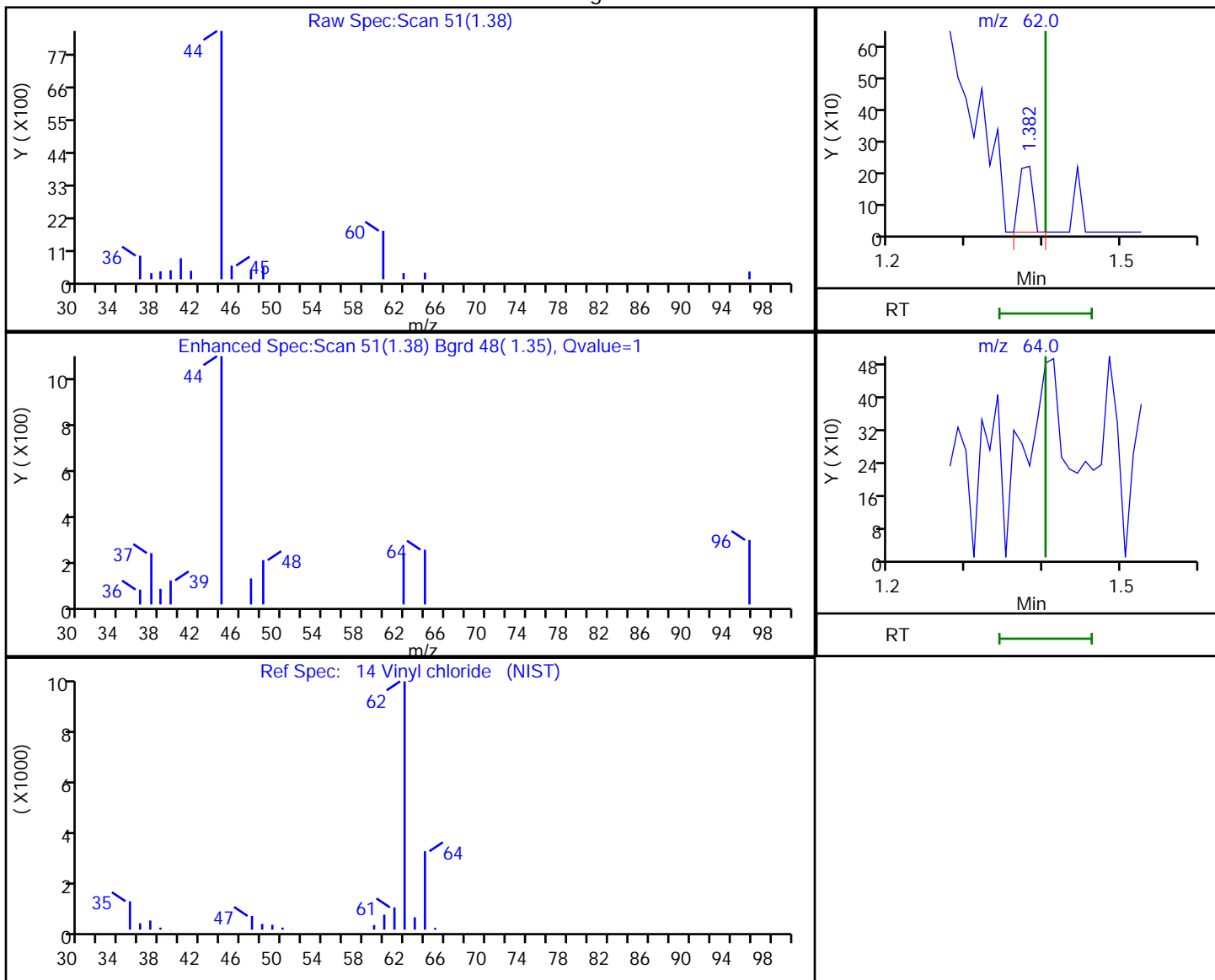


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3138.D  
 Injection Date: 18-Jul-2019 01:35:30 Instrument ID: HP5975T  
 Lims ID: 480-156213-D-9 Lab Sample ID: 480-156213-9  
 Client ID: 356023-MW1802  
 Operator ID: AEM ALS Bottle#: 16 Worklist Smp#: 17  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.38	62.00	259	0.024396
1.40	64.00	0	

Reviewer: farrellr, 18-Jul-2019 13:25:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1803 Lab Sample ID: 480-156213-10  
 Matrix: Water Lab File ID: T3139.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 01:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	1.4		1.0	0.38
75-35-4	1,1-Dichloroethene	0.43	J	1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1803 Lab Sample ID: 480-156213-10  
 Matrix: Water Lab File ID: T3139.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 01:59  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	106		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3139.D  
 Lims ID: 480-156213-D-10  
 Client ID: 356023-MW1803  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 01:59:30 ALS Bottle#: 17 Worklist Smp#: 18  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-10  
 Misc. Info.: 480-0082700-018  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:26:56 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:28:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	166477	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	731088	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	439443	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	94	242110	26.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	272379	25.8	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	875014	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	317415	26.4	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	93	3316	0.4343	
23 Acetone	43	2.460	2.460	0.000	97	5054	1.96	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	88	7388	0.3241	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	96	20629	1.41	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

**Reagents:**

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3139.D

Injection Date: 18-Jul-2019 01:59:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-10

Lab Sample ID: 480-156213-10

Worklist Smp#: 18

Client ID: 356023-MW1803

Purge Vol: 5.000 mL

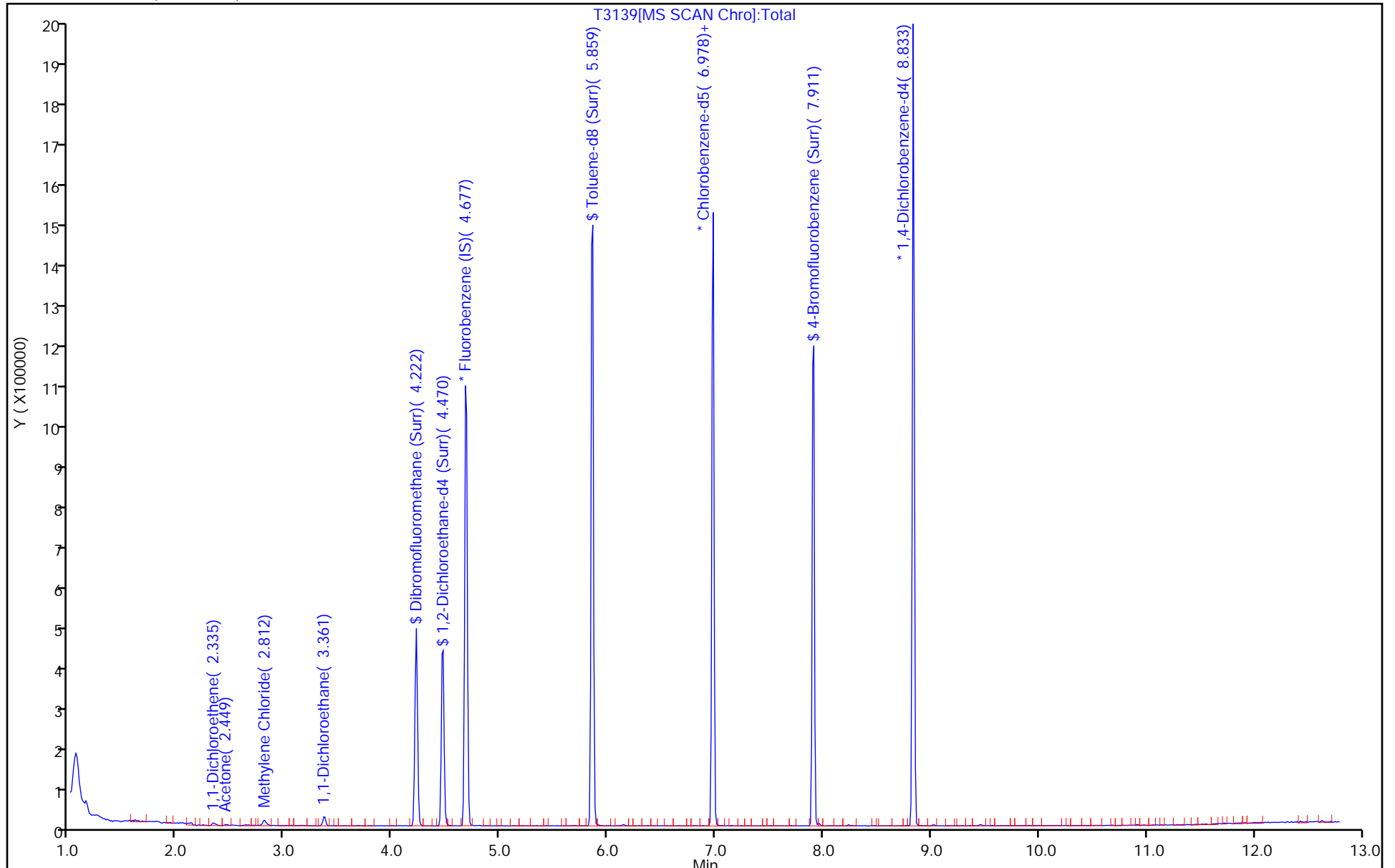
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3139.D

Injection Date: 18-Jul-2019 01:59:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-10

Lab Sample ID: 480-156213-10

Client ID: 356023-MW1803

Operator ID: AEM

ALS Bottle#: 17

Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

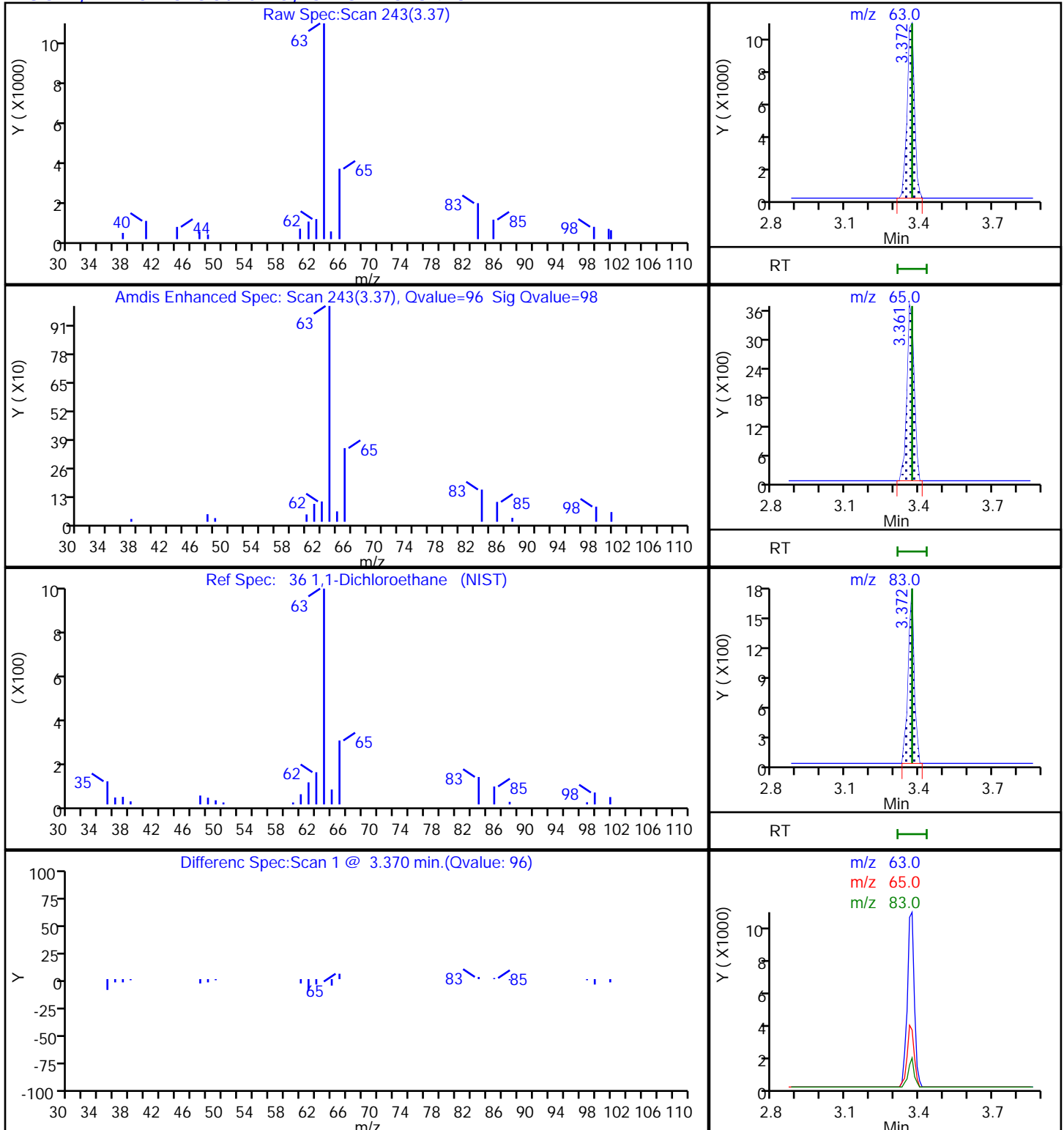
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3139.D

Injection Date: 18-Jul-2019 01:59:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-10

Lab Sample ID: 480-156213-10

Client ID: 356023-MW1803

Operator ID: AEM

ALS Bottle#: 17 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

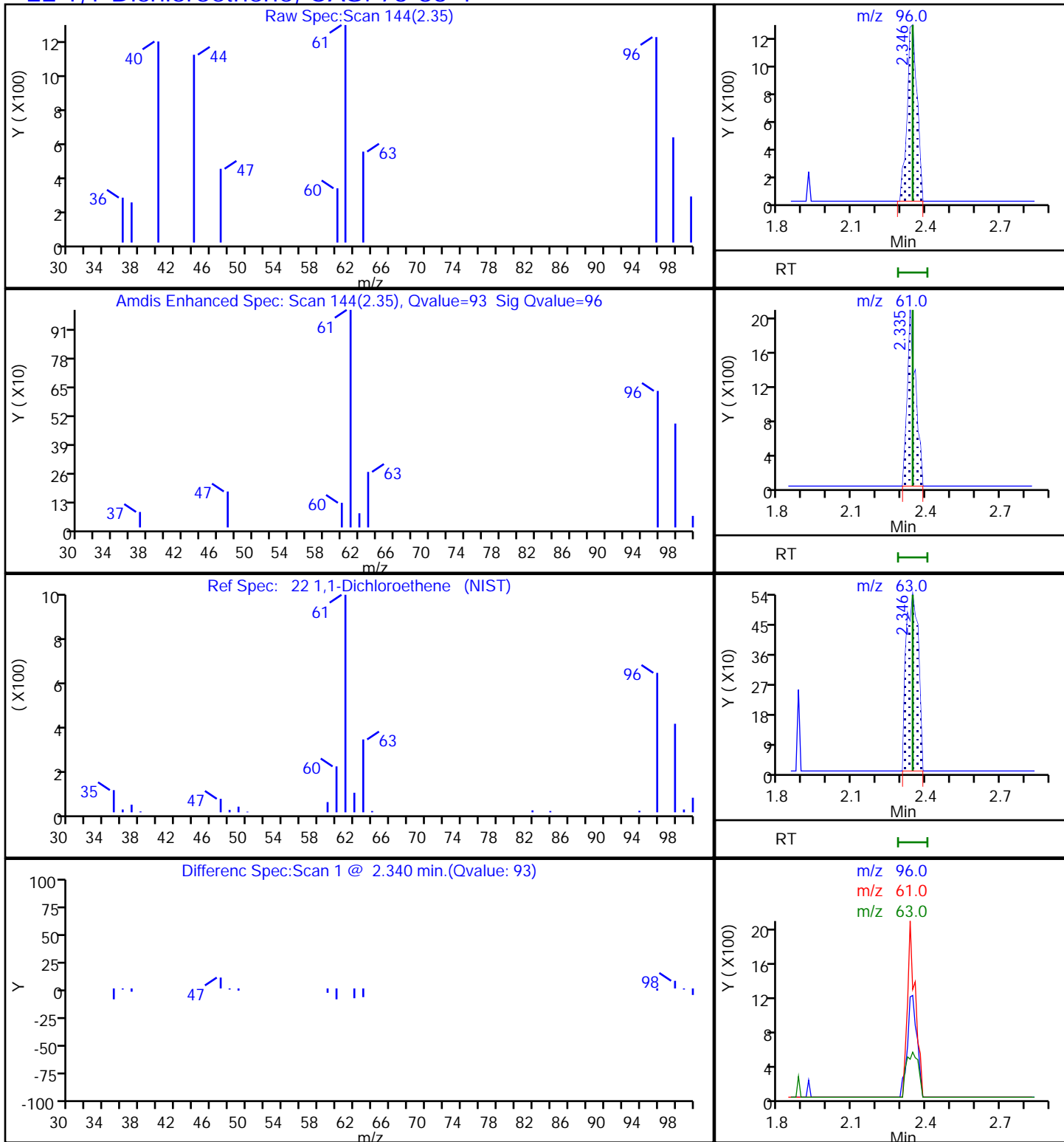
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4





FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5B Lab Sample ID: 480-156213-11  
 Matrix: Water Lab File ID: T3140.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 13:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 02:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1800		40	33
79-34-5	1,1,2,2-Tetrachloroethane	ND		40	8.4
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12
79-00-5	1,1,2-Trichloroethane	ND		40	9.2
75-34-3	1,1-Dichloroethane	42		40	15
75-35-4	1,1-Dichloroethene	200		40	12
87-61-6	1,2,3-Trichlorobenzene	ND		40	16
120-82-1	1,2,4-Trichlorobenzene	ND		40	16
96-12-8	1,2-Dibromo-3-Chloropropane	ND		40	16
106-93-4	1,2-Dibromoethane	ND		40	29
95-50-1	1,2-Dichlorobenzene	ND		40	32
107-06-2	1,2-Dichloroethane	ND		40	8.4
78-87-5	1,2-Dichloropropane	ND		40	29
541-73-1	1,3-Dichlorobenzene	ND		40	31
106-46-7	1,4-Dichlorobenzene	ND		40	34
123-91-1	1,4-Dioxane	ND		1600	370
78-93-3	2-Butanone (MEK)	ND		400	53
591-78-6	2-Hexanone	ND		200	50
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		200	84
67-64-1	Acetone	ND		400	120
71-43-2	Benzene	ND		40	16
74-97-5	Bromochloromethane	ND		40	35
75-27-4	Bromodichloromethane	ND		40	16
75-25-2	Bromoform	ND	*	40	10
74-83-9	Bromomethane	ND		40	28
75-15-0	Carbon disulfide	ND		40	7.6
56-23-5	Carbon tetrachloride	ND		40	11
108-90-7	Chlorobenzene	ND		40	30
75-00-3	Chloroethane	ND		40	13
67-66-3	Chloroform	ND		40	14
74-87-3	Chloromethane	ND		40	14
156-59-2	cis-1,2-Dichloroethene	ND		40	32
10061-01-5	cis-1,3-Dichloropropene	ND		40	14
110-82-7	Cyclohexane	ND		40	7.2
124-48-1	Dibromochloromethane	ND	*	40	13

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5B Lab Sample ID: 480-156213-11  
 Matrix: Water Lab File ID: T3140.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 13:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 02:23  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		40	27
100-41-4	Ethylbenzene	ND		40	30
98-82-8	Isopropylbenzene	ND		40	32
79-20-9	Methyl acetate	ND		100	52
1634-04-4	Methyl tert-butyl ether	ND		40	6.4
108-87-2	Methylcyclohexane	ND		40	6.4
75-09-2	Methylene Chloride	22	J	40	18
100-42-5	Styrene	ND		40	29
127-18-4	Tetrachloroethene	ND		40	14
108-88-3	Toluene	ND		40	20
156-60-5	trans-1,2-Dichloroethene	ND		40	36
10061-02-6	trans-1,3-Dichloropropene	ND		40	15
79-01-6	Trichloroethene	87		40	18
75-69-4	Trichlorofluoromethane	ND		40	35
75-01-4	Vinyl chloride	ND		40	36
1330-20-7	Xylenes, Total	ND		80	26

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	108		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D  
 Lims ID: 480-156213-D-11  
 Client ID: 356023-MW5B  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 02:23:30 ALS Bottle#: 18 Worklist Smp#: 19  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Sample Info: 480-156213-D-11  
 Misc. Info.: 480-0082700-019  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:29:25 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 13:29:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	164345	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	85	716816	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	434282	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	94	244952	27.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.470	-0.010	0	270277	25.9	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	92	865194	24.6	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	319601	27.1	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	U
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	97	37544	4.98	
23 Acetone	43		2.460				ND	U
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	89	9203	0.5401	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	95	15139	1.05	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83	4.097	4.076	0.000	91	2717	0.1769	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	98	510745	45.7	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	95	20037	2.18	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D

Injection Date: 18-Jul-2019 02:23:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-11

Lab Sample ID: 480-156213-11

Worklist Smp#: 19

Client ID: 356023-MW5B

Purge Vol: 5.000 mL

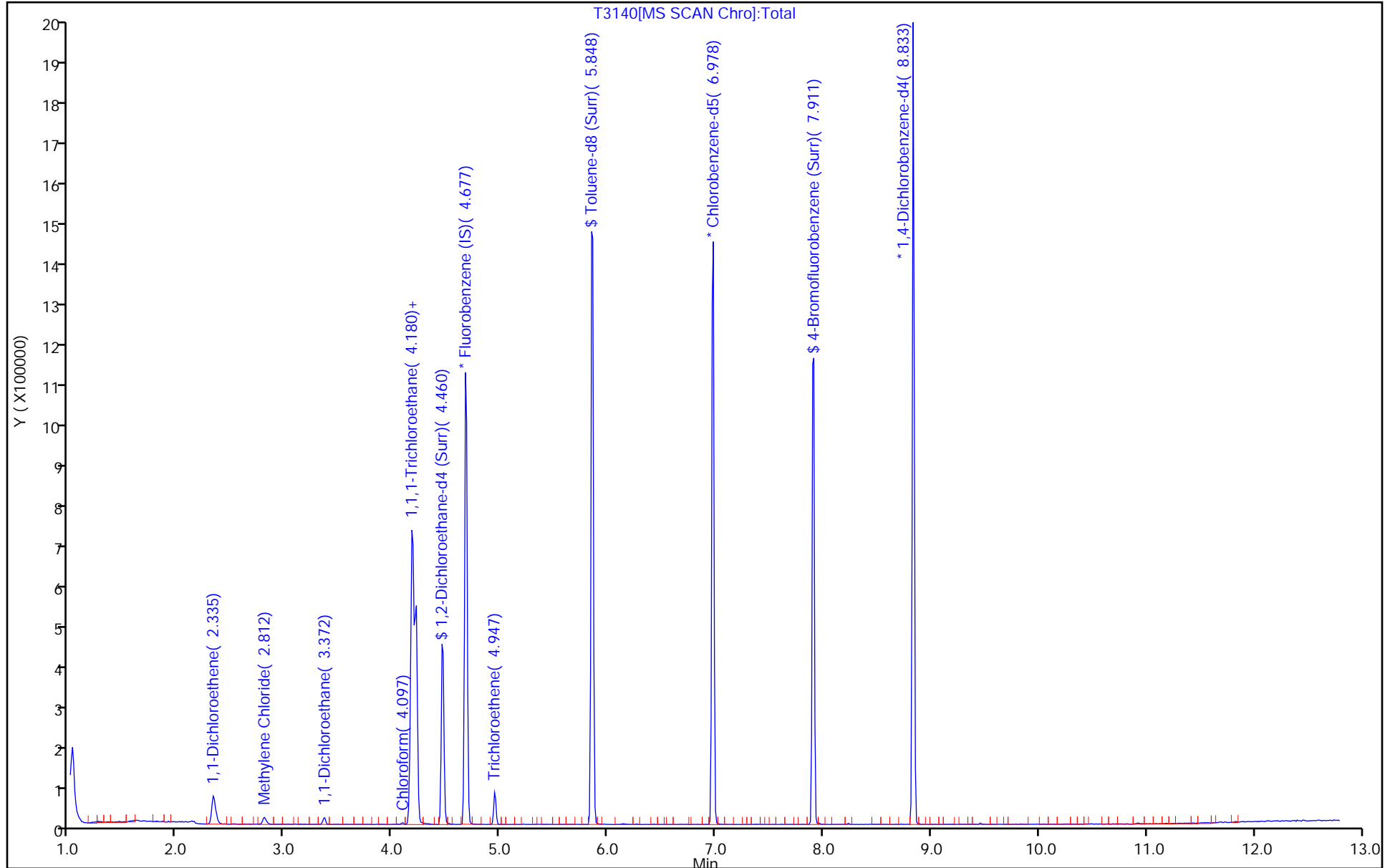
Dil. Factor: 40.0000

ALS Bottle#: 18

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D

Injection Date: 18-Jul-2019 02:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-11

Lab Sample ID: 480-156213-11

Client ID: 356023-MW5B

Operator ID: AEM

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

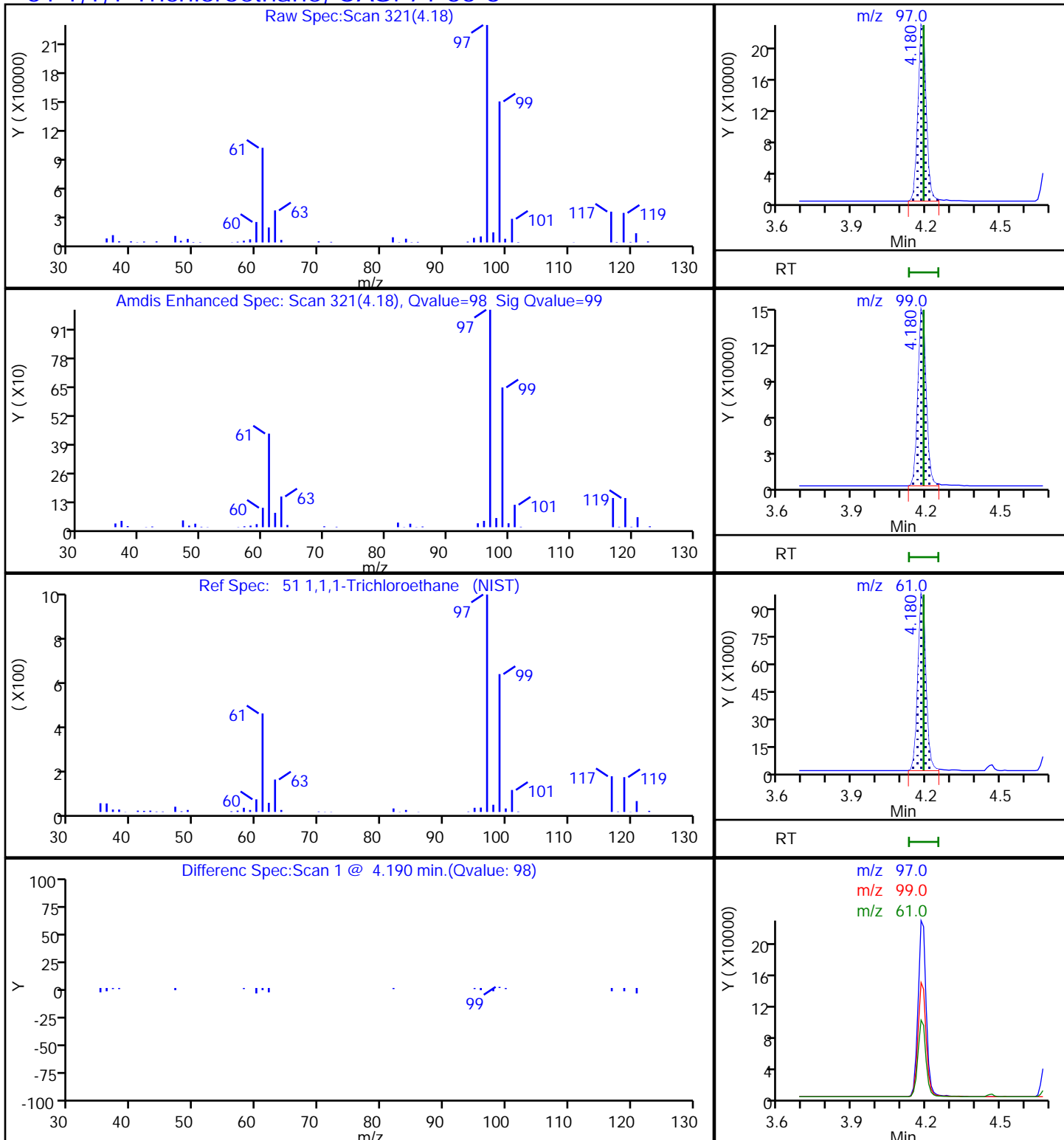
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D

Injection Date: 18-Jul-2019 02:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-11

Lab Sample ID: 480-156213-11

Client ID: 356023-MW5B

Operator ID: AEM

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

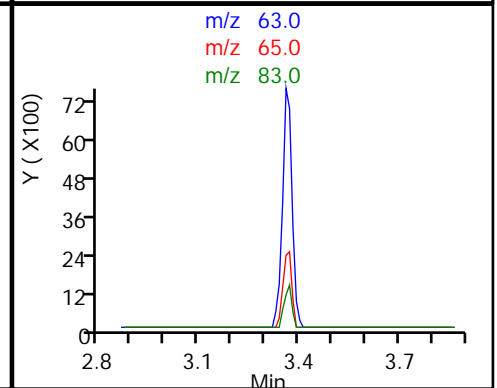
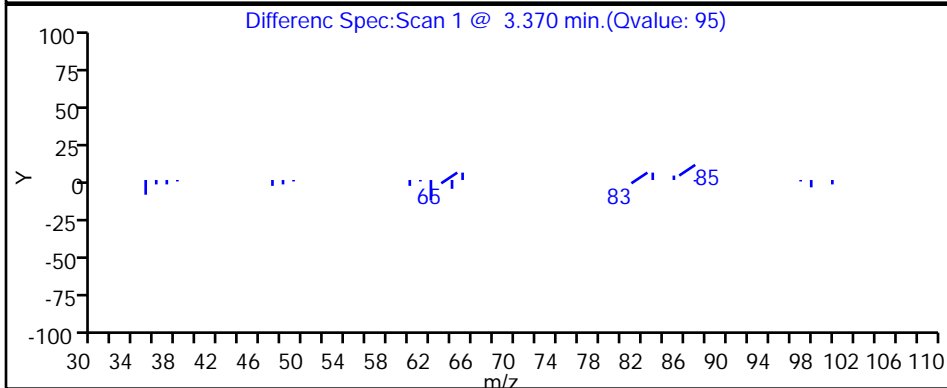
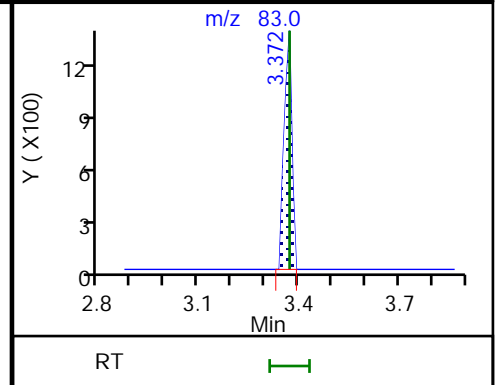
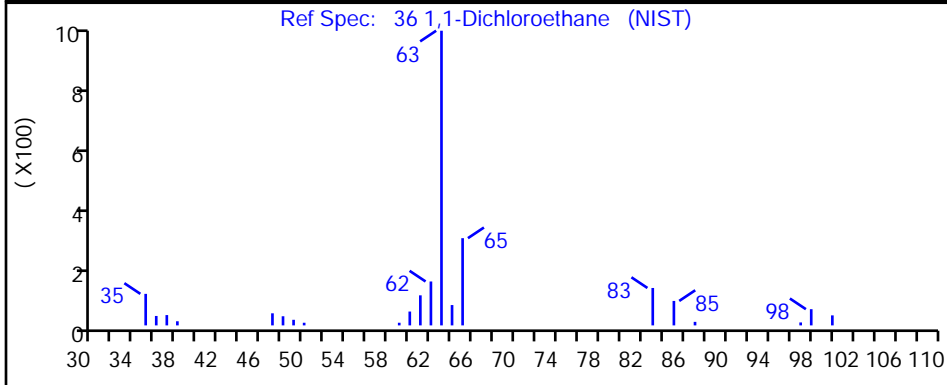
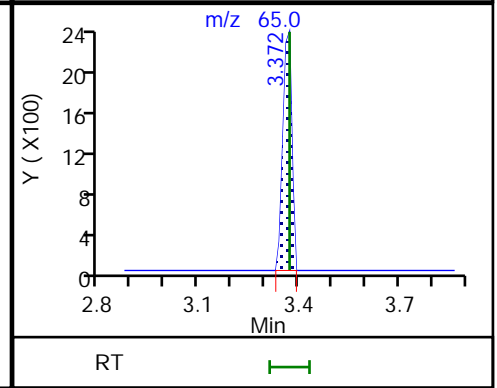
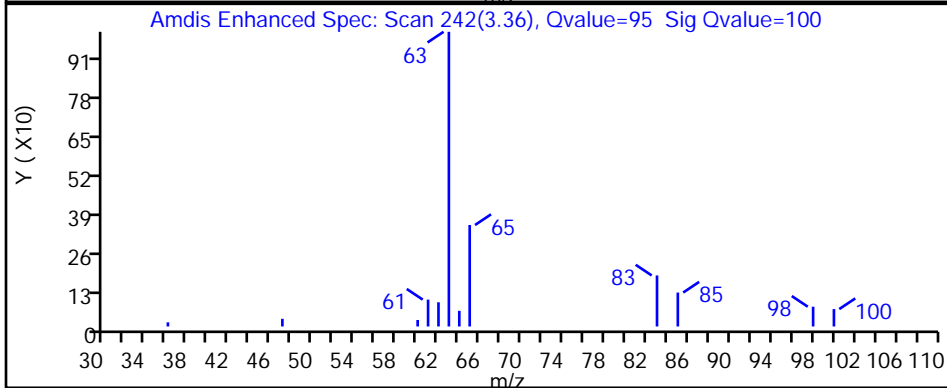
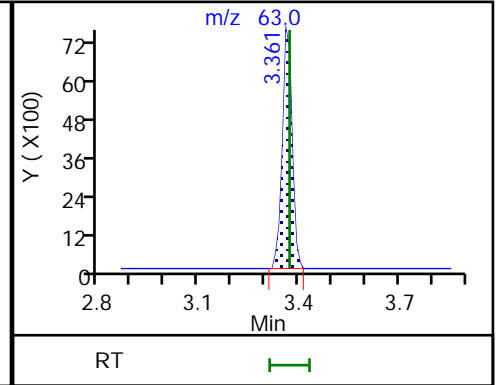
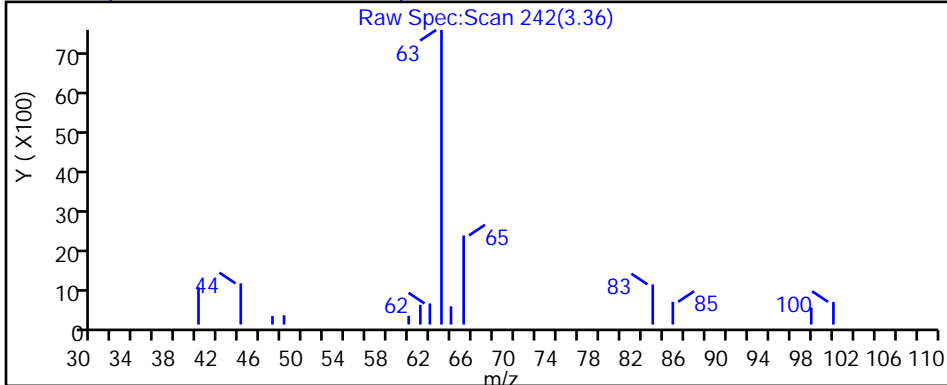
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D

Injection Date: 18-Jul-2019 02:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-11

Lab Sample ID: 480-156213-11

Client ID: 356023-MW5B

Operator ID: AEM

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

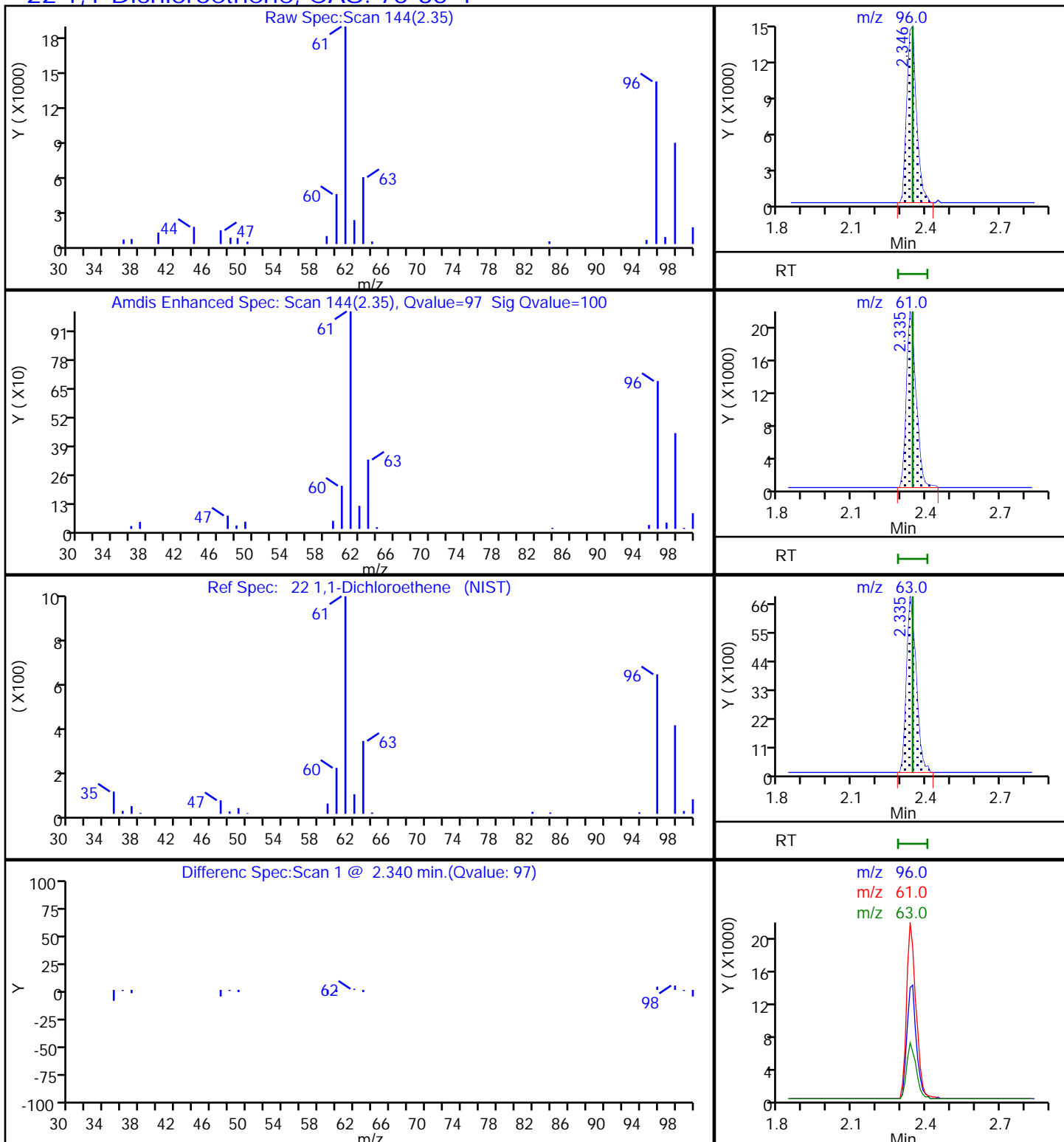
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4





Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D

Injection Date: 18-Jul-2019 02:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-11

Lab Sample ID: 480-156213-11

Client ID: 356023-MW5B

Operator ID: AEM

ALS Bottle#: 18 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

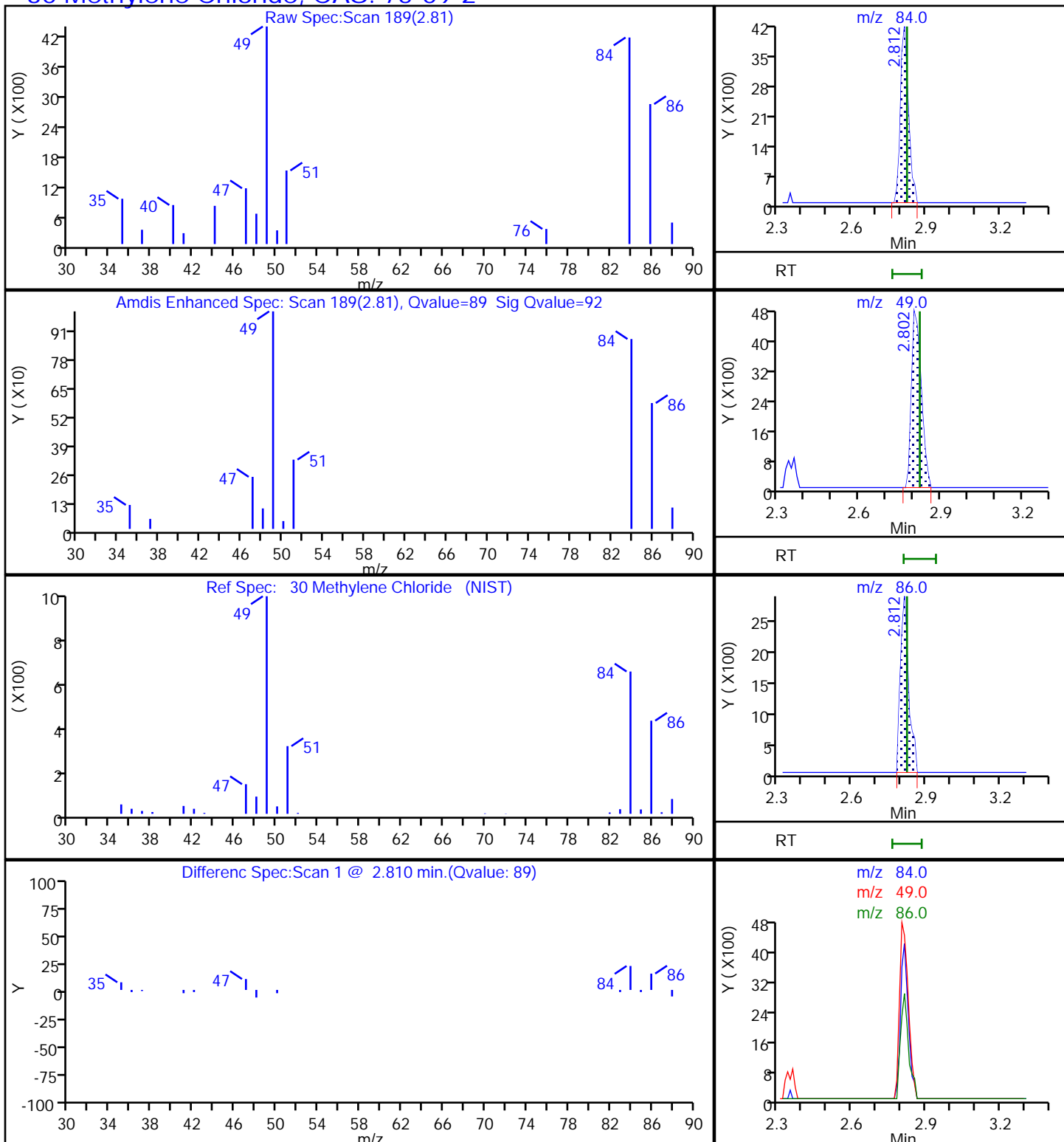
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 30 Methylene Chloride, CAS: 75-09-2



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D

Injection Date: 18-Jul-2019 02:23:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-11

Lab Sample ID: 480-156213-11

Client ID: 356023-MW5B

Operator ID: AEM

ALS Bottle#: 18

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 40.0000

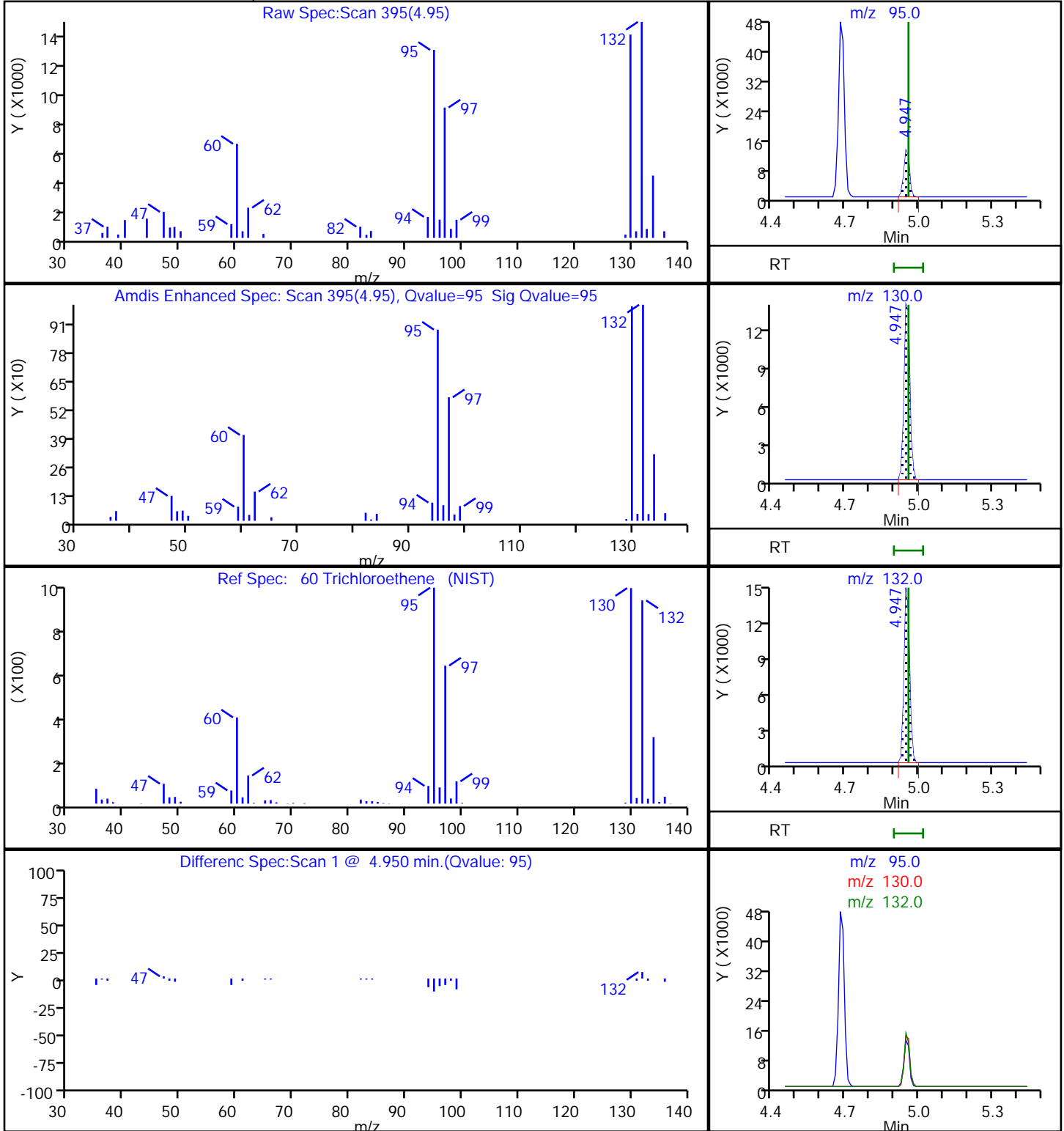
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 60 Trichloroethene, CAS: 79-01-6

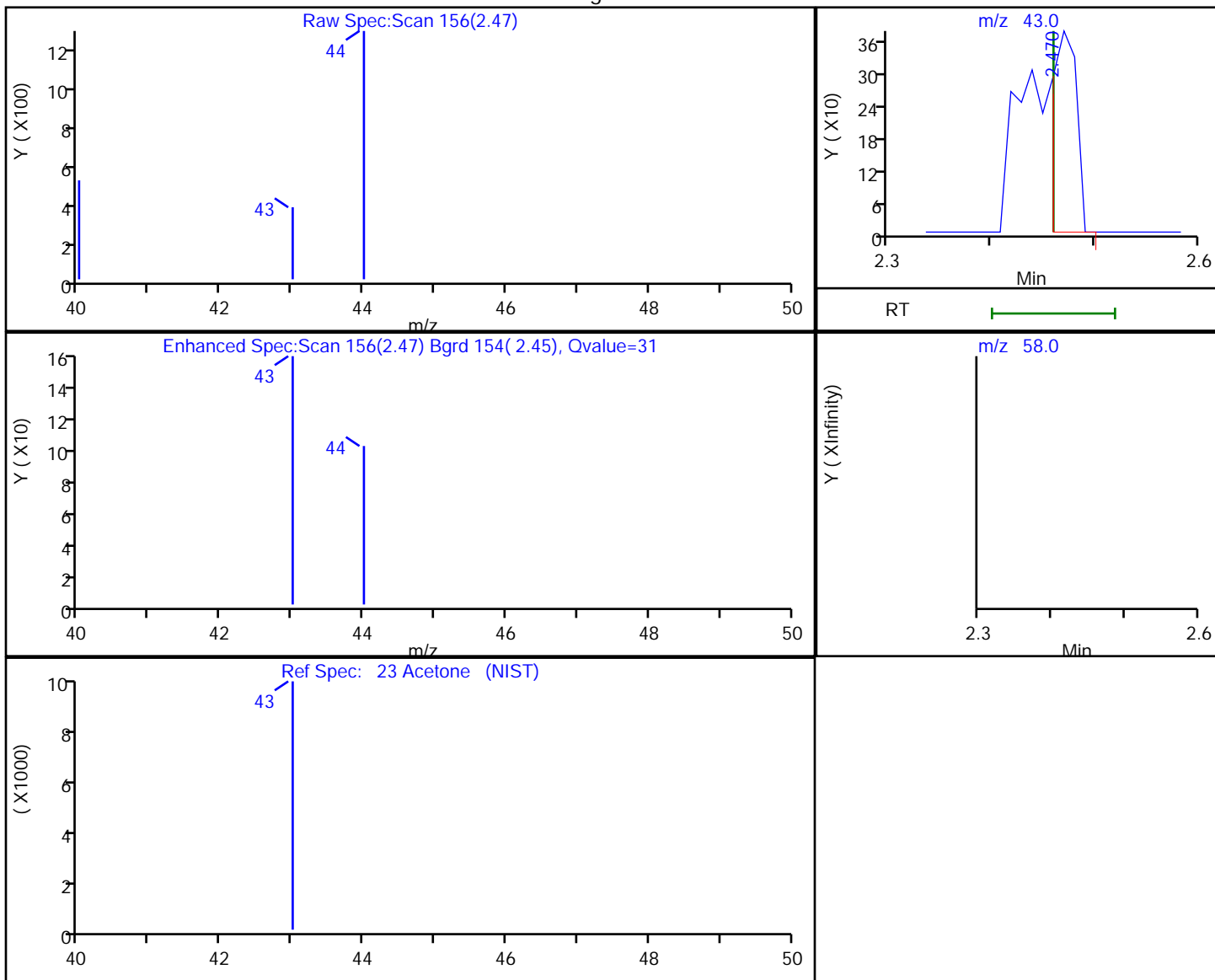


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D  
 Injection Date: 18-Jul-2019 02:23:30 Instrument ID: HP5975T  
 Lims ID: 480-156213-D-11 Lab Sample ID: 480-156213-11  
 Client ID: 356023-MW5B  
 Operator ID: AEM ALS Bottle#: 18 Worklist Smp#: 19  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.47	43.00	612	0.240995
2.46	58.00	0	

Reviewer: farrellr, 18-Jul-2019 13:28:28

Audit Action: Marked Compound Undetected

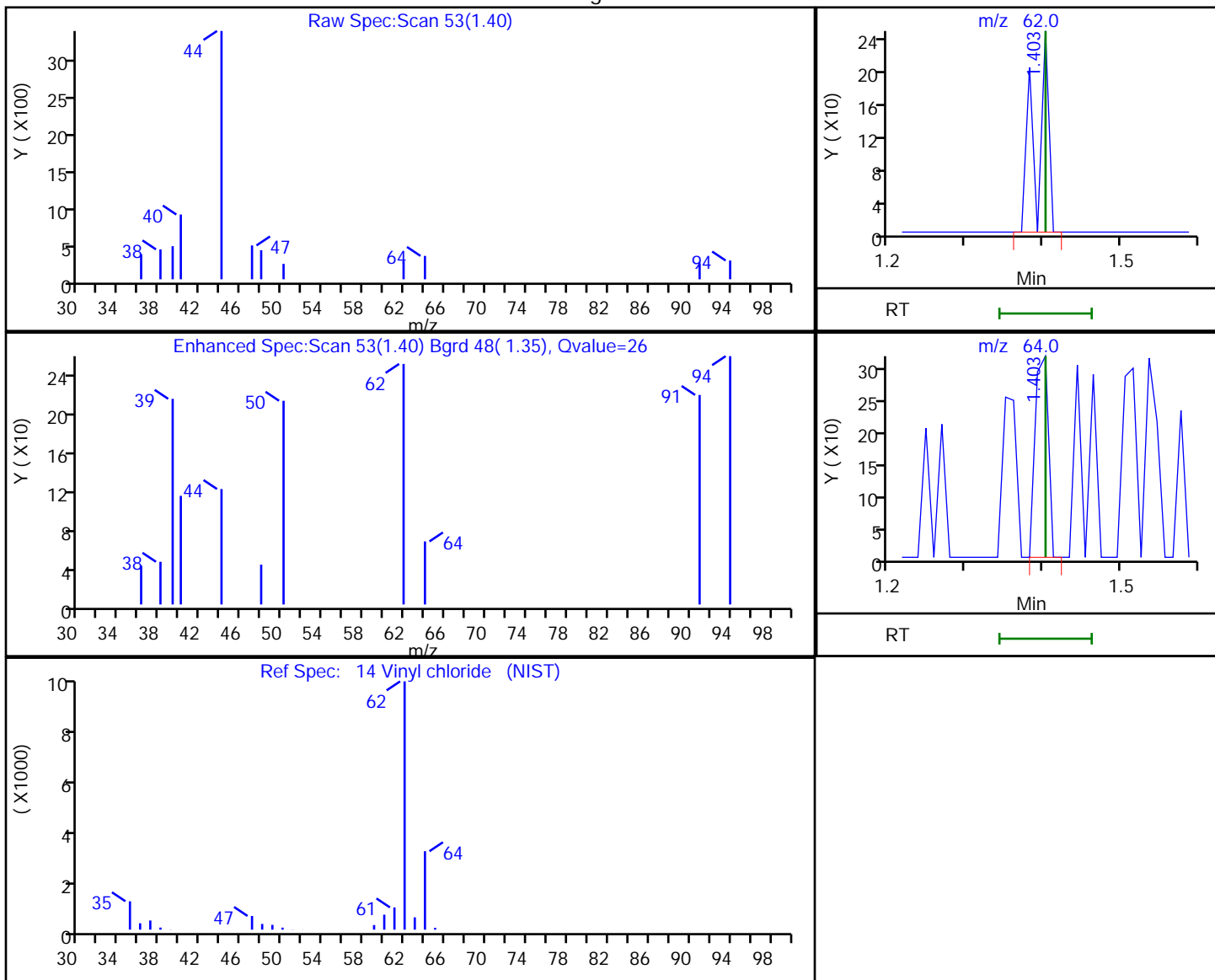
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3140.D  
 Injection Date: 18-Jul-2019 02:23:30 Instrument ID: HP5975T  
 Lims ID: 480-156213-D-11 Lab Sample ID: 480-156213-11  
 Client ID: 356023-MW5B  
 Operator ID: AEM ALS Bottle#: 18 Worklist Smp#: 19  
 Purge Vol: 5.000 mL Dil. Factor: 40.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

14 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.40	62.00	280	0.026902
1.40	64.00	381	

Reviewer: farrellr, 18-Jul-2019 13:28:21

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-ERT4 Lab Sample ID: 480-156213-12  
 Matrix: Water Lab File ID: T3141.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 11:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 02:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3100		50	41
79-34-5	1,1,2,2-Tetrachloroethane	ND		50	11
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		50	16
79-00-5	1,1,2-Trichloroethane	ND		50	12
75-34-3	1,1-Dichloroethane	78		50	19
75-35-4	1,1-Dichloroethene	280		50	15
87-61-6	1,2,3-Trichlorobenzene	ND		50	21
120-82-1	1,2,4-Trichlorobenzene	ND		50	21
96-12-8	1,2-Dibromo-3-Chloropropane	ND		50	20
106-93-4	1,2-Dibromoethane	ND		50	37
95-50-1	1,2-Dichlorobenzene	ND		50	40
107-06-2	1,2-Dichloroethane	ND		50	11
78-87-5	1,2-Dichloropropane	ND		50	36
541-73-1	1,3-Dichlorobenzene	ND		50	39
106-46-7	1,4-Dichlorobenzene	ND		50	42
123-91-1	1,4-Dioxane	ND		2000	470
78-93-3	2-Butanone (MEK)	ND		500	66
591-78-6	2-Hexanone	ND		250	62
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		250	110
67-64-1	Acetone	ND		500	150
71-43-2	Benzene	ND		50	21
74-97-5	Bromochloromethane	ND		50	44
75-27-4	Bromodichloromethane	ND		50	20
75-25-2	Bromoform	ND	*	50	13
74-83-9	Bromomethane	ND		50	35
75-15-0	Carbon disulfide	ND		50	9.5
56-23-5	Carbon tetrachloride	ND		50	14
108-90-7	Chlorobenzene	ND		50	38
75-00-3	Chloroethane	ND		50	16
67-66-3	Chloroform	ND		50	17
74-87-3	Chloromethane	ND		50	18
156-59-2	cis-1,2-Dichloroethene	ND		50	41
10061-01-5	cis-1,3-Dichloropropene	ND		50	18
110-82-7	Cyclohexane	ND		50	9.0
124-48-1	Dibromochloromethane	ND	*	50	16

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-ERT4 Lab Sample ID: 480-156213-12  
 Matrix: Water Lab File ID: T3141.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 11:20  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 02:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 50  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		50	34
100-41-4	Ethylbenzene	ND		50	37
98-82-8	Isopropylbenzene	ND		50	40
79-20-9	Methyl acetate	ND		130	65
1634-04-4	Methyl tert-butyl ether	ND		50	8.0
108-87-2	Methylcyclohexane	ND		50	8.0
75-09-2	Methylene Chloride	35	J	50	22
100-42-5	Styrene	ND		50	37
127-18-4	Tetrachloroethene	ND		50	18
108-88-3	Toluene	ND		50	26
156-60-5	trans-1,2-Dichloroethene	ND		50	45
10061-02-6	trans-1,3-Dichloropropene	ND		50	19
79-01-6	Trichloroethene	140		50	23
75-69-4	Trichlorofluoromethane	ND		50	44
75-01-4	Vinyl chloride	ND		50	45
1330-20-7	Xylenes, Total	ND		100	33

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3141.D  
 Lims ID: 480-156213-D-12  
 Client ID: 356023-ERT4  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 02:47:30 ALS Bottle#: 19 Worklist Smp#: 20  
 Purge Vol: 5.000 mL Dil. Factor: 50.0000  
 Sample Info: 480-156213-D-12  
 Misc. Info.: 480-0082700-020  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:29:25 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:30:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	164679	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	736696	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	436767	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	93	244448	26.9	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	268723	25.7	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	867375	24.0	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	313263	25.8	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	98	41550	5.50	
23 Acetone	43	2.470	2.460	0.010	67	1128	0.4433	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	84	10713	0.7085	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	96	22605	1.57	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83	4.097	4.076	0.000	89	2601	0.1690	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.190	4.190	0.000	98	690830	61.8	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	94	26731	2.90	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

**Reagents:**

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3141.D

Injection Date: 18-Jul-2019 02:47:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-12

Lab Sample ID: 480-156213-12

Worklist Smp#: 20

Client ID: 356023-ERT4

Purge Vol: 5.000 mL

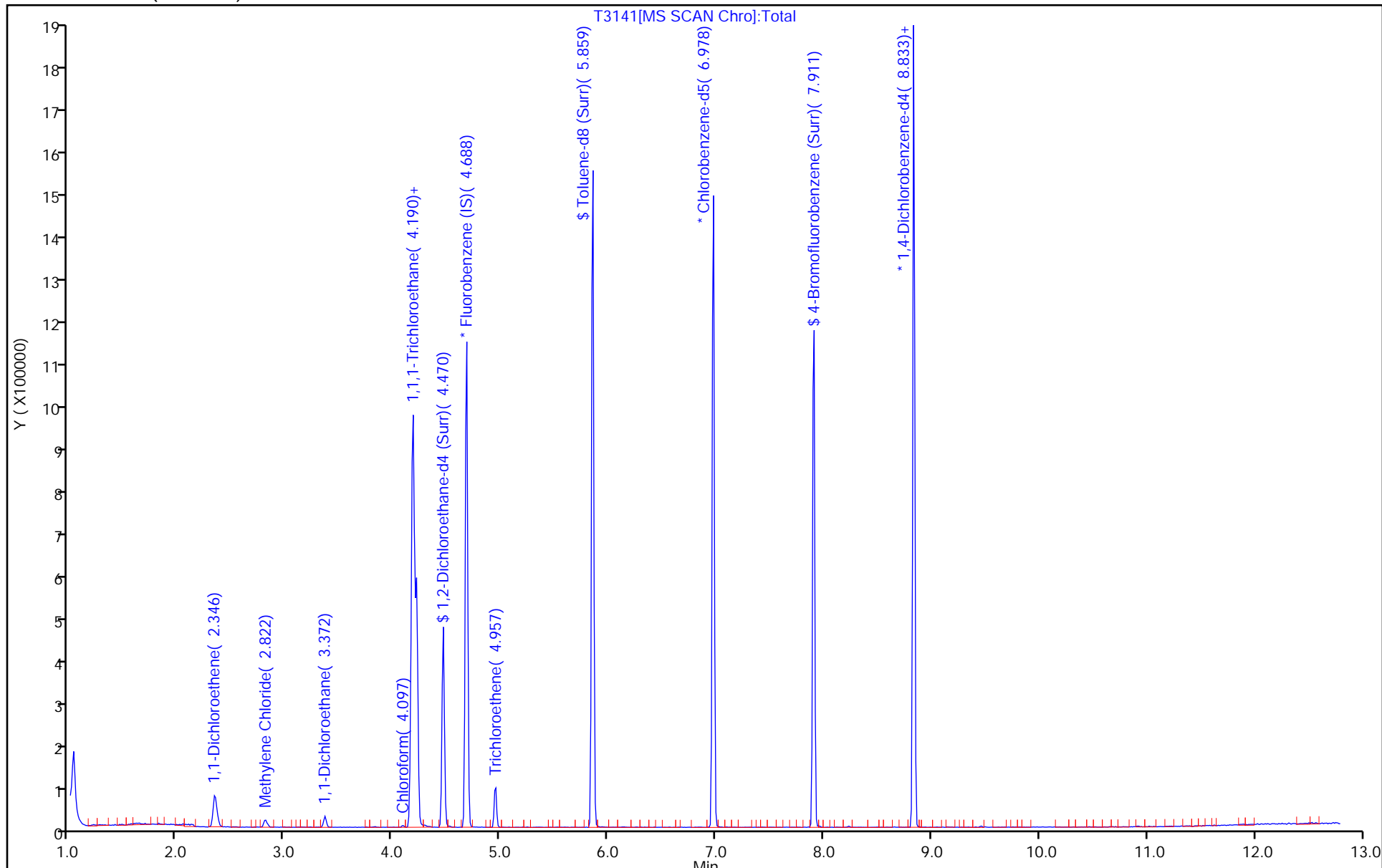
Dil. Factor: 50.0000

ALS Bottle#: 19

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3141.D

Injection Date: 18-Jul-2019 02:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-12

Lab Sample ID: 480-156213-12

Client ID: 356023-ERT4

Operator ID: AEM

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

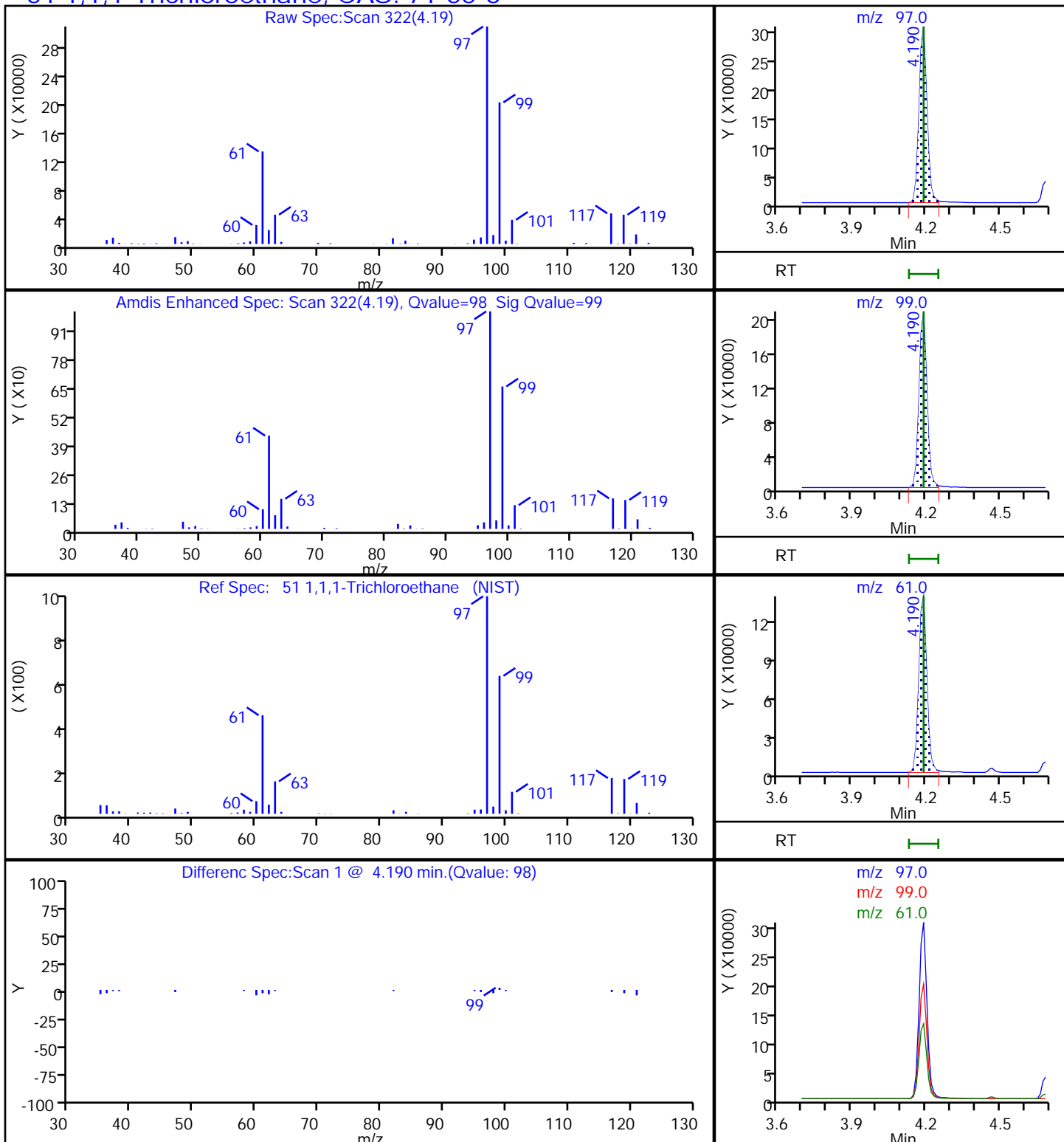
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3141.D

Injection Date: 18-Jul-2019 02:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-12

Lab Sample ID: 480-156213-12

Client ID: 356023-ERT4

Operator ID: AEM

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

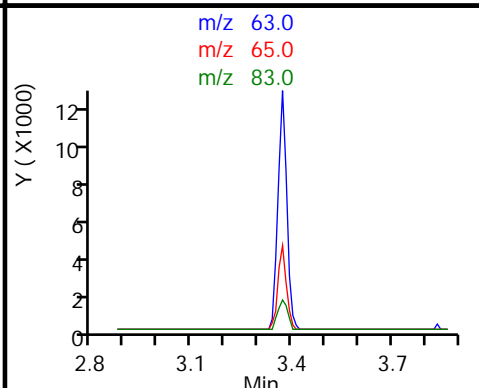
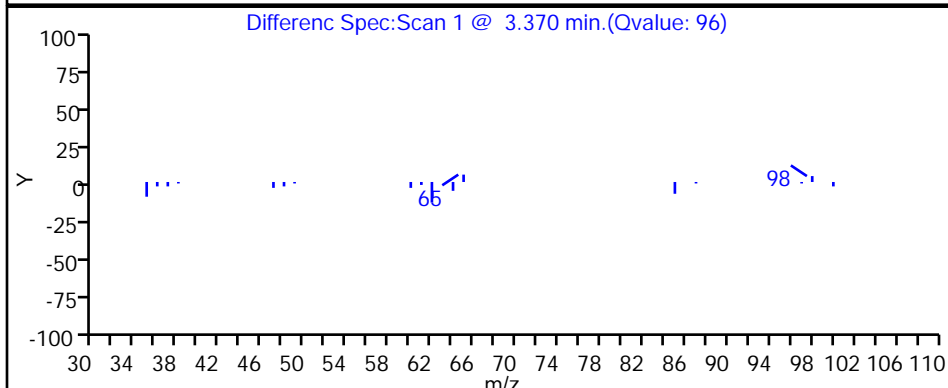
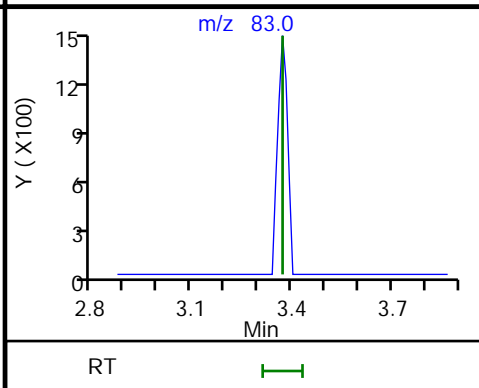
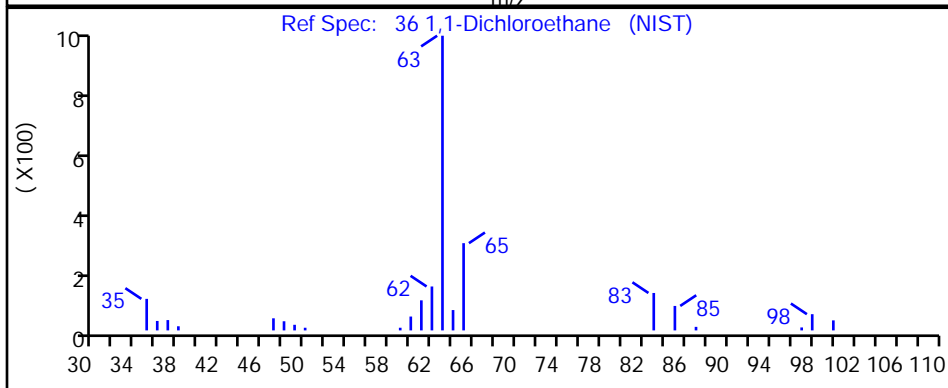
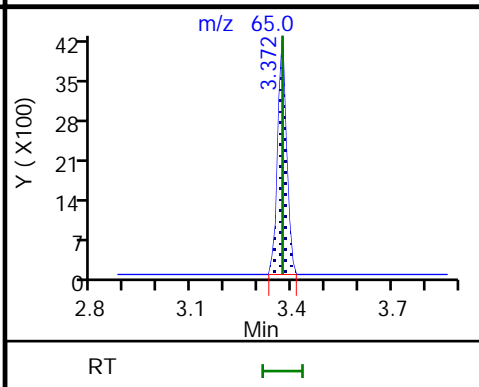
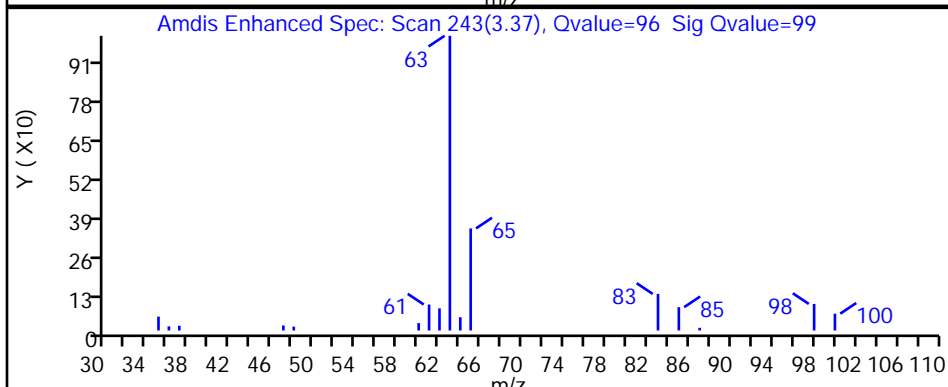
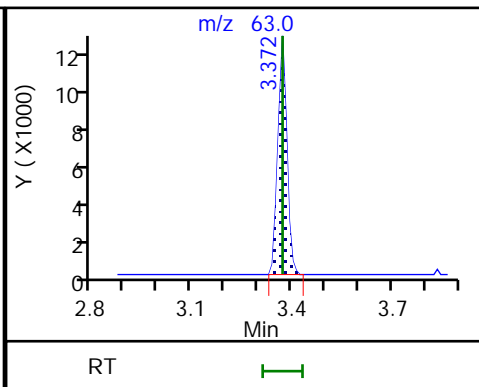
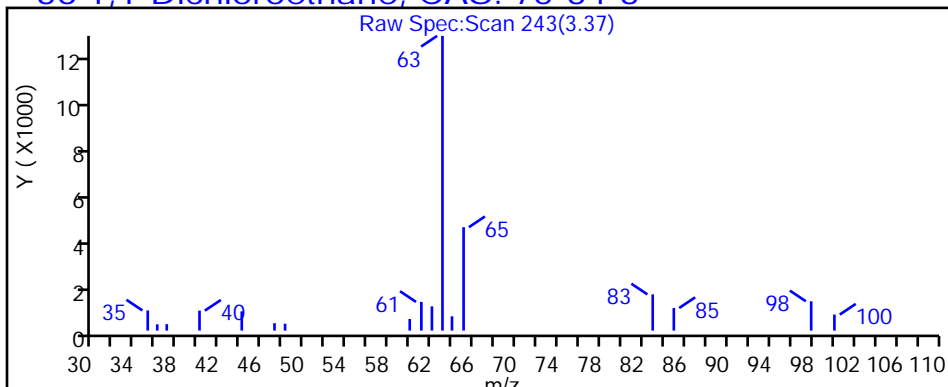
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3141.D

Injection Date: 18-Jul-2019 02:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-12

Lab Sample ID: 480-156213-12

Client ID: 356023-ERT4

Operator ID: AEM

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

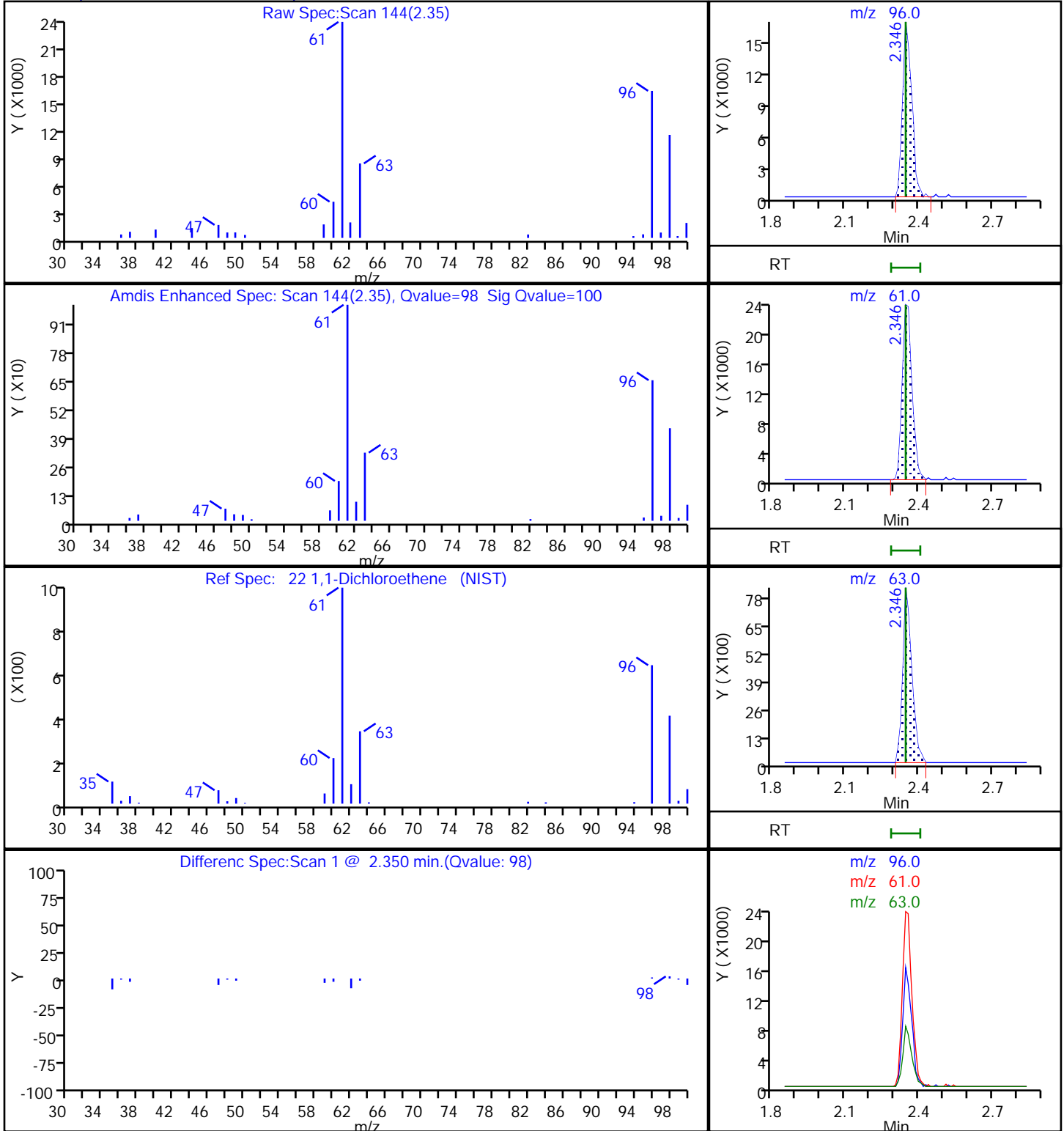
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3141.D

Injection Date: 18-Jul-2019 02:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-12

Lab Sample ID: 480-156213-12

Client ID: 356023-ERT4

Operator ID: AEM

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

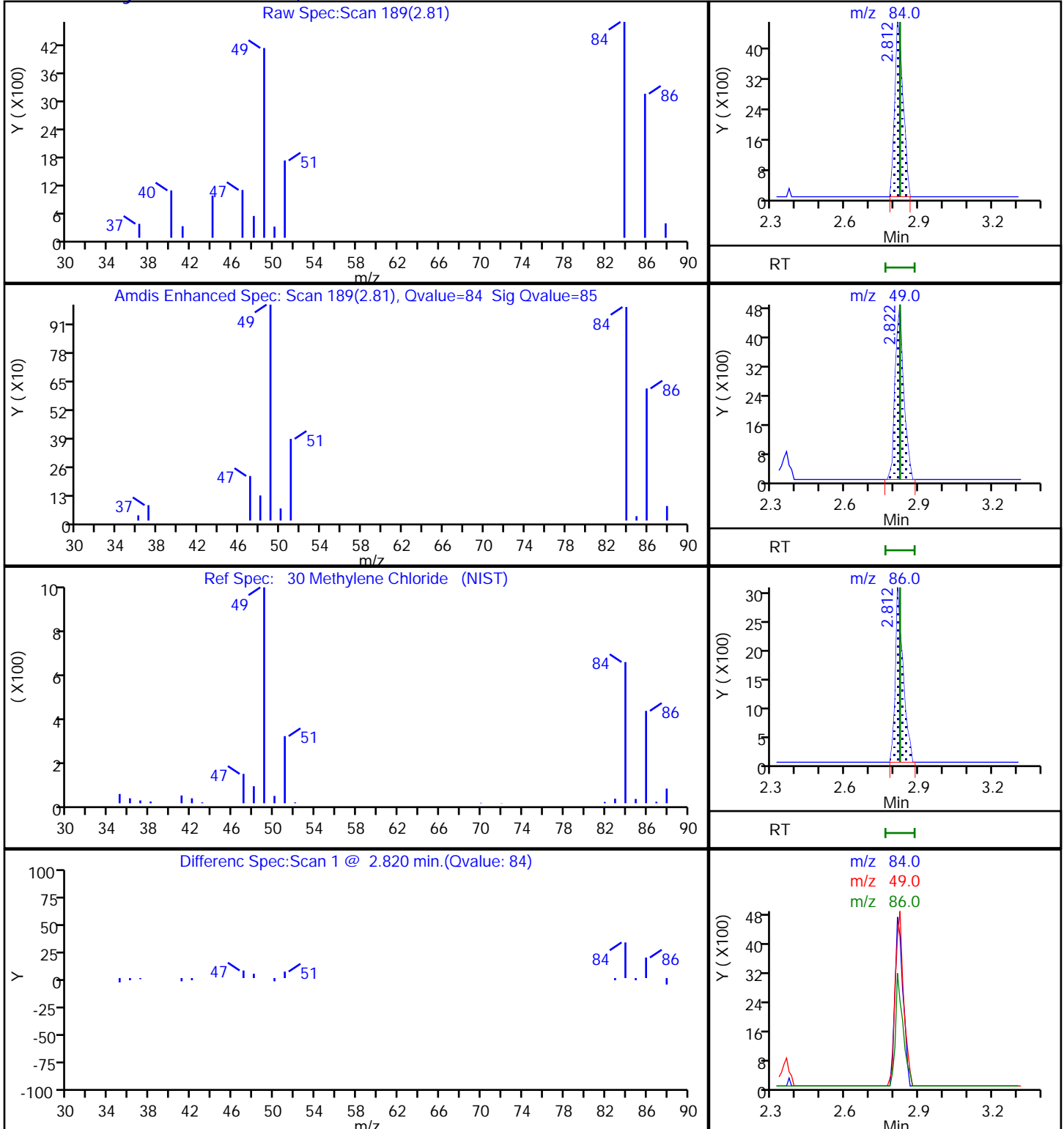
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 30 Methylene Chloride, CAS: 75-09-2



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3141.D

Injection Date: 18-Jul-2019 02:47:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-12

Lab Sample ID: 480-156213-12

Client ID: 356023-ERT4

Operator ID: AEM

ALS Bottle#: 19

Worklist Smp#: 20

Purge Vol: 5.000 mL

Dil. Factor: 50.0000

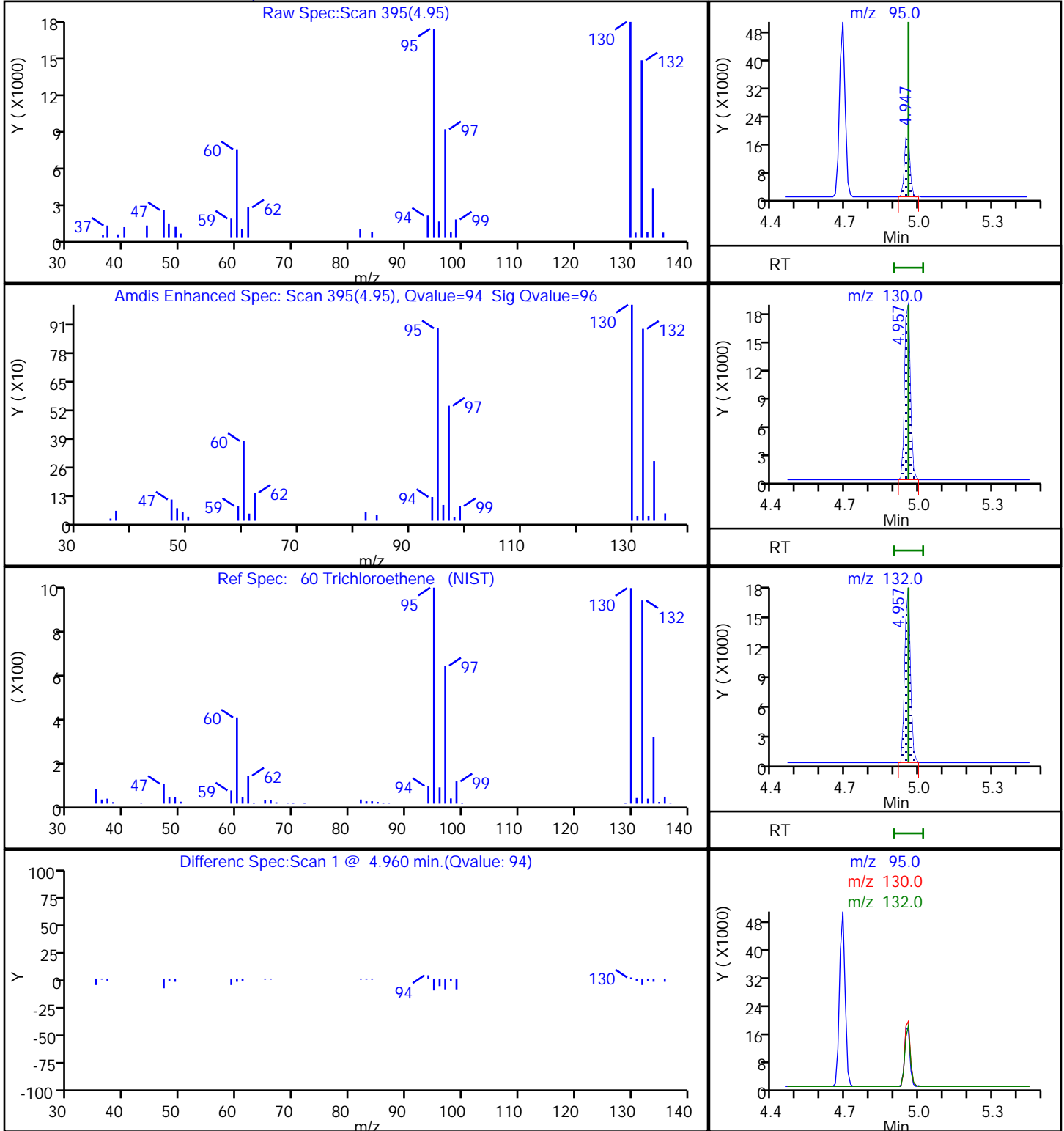
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW4 Lab Sample ID: 480-156213-13  
 Matrix: Water Lab File ID: T3142.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 14:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 03:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1100		20	16
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	4.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2
79-00-5	1,1,2-Trichloroethane	ND		20	4.6
75-34-3	1,1-Dichloroethane	23		20	7.6
75-35-4	1,1-Dichloroethene	130		20	5.8
87-61-6	1,2,3-Trichlorobenzene	ND		20	8.2
120-82-1	1,2,4-Trichlorobenzene	ND		20	8.2
96-12-8	1,2-Dibromo-3-Chloropropane	ND		20	7.8
106-93-4	1,2-Dibromoethane	ND		20	15
95-50-1	1,2-Dichlorobenzene	ND		20	16
107-06-2	1,2-Dichloroethane	ND		20	4.2
78-87-5	1,2-Dichloropropane	ND		20	14
541-73-1	1,3-Dichlorobenzene	ND		20	16
106-46-7	1,4-Dichlorobenzene	ND		20	17
123-91-1	1,4-Dioxane	ND		800	190
78-93-3	2-Butanone (MEK)	ND		200	26
591-78-6	2-Hexanone	ND		100	25
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		100	42
67-64-1	Acetone	ND		200	60
71-43-2	Benzene	ND		20	8.2
74-97-5	Bromochloromethane	ND		20	17
75-27-4	Bromodichloromethane	ND		20	7.8
75-25-2	Bromoform	ND	*	20	5.2
74-83-9	Bromomethane	ND		20	14
75-15-0	Carbon disulfide	ND		20	3.8
56-23-5	Carbon tetrachloride	ND		20	5.4
108-90-7	Chlorobenzene	ND		20	15
75-00-3	Chloroethane	ND		20	6.4
67-66-3	Chloroform	ND		20	6.8
74-87-3	Chloromethane	ND		20	7.0
156-59-2	cis-1,2-Dichloroethene	ND		20	16
10061-01-5	cis-1,3-Dichloropropene	ND		20	7.2
110-82-7	Cyclohexane	ND		20	3.6
124-48-1	Dibromochloromethane	ND	*	20	6.4

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW4 Lab Sample ID: 480-156213-13  
 Matrix: Water Lab File ID: T3142.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 14:47  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 03:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		20	14
100-41-4	Ethylbenzene	ND		20	15
98-82-8	Isopropylbenzene	ND		20	16
79-20-9	Methyl acetate	ND		50	26
1634-04-4	Methyl tert-butyl ether	ND		20	3.2
108-87-2	Methylcyclohexane	ND		20	3.2
75-09-2	Methylene Chloride	14	J	20	8.8
100-42-5	Styrene	ND		20	15
127-18-4	Tetrachloroethene	ND		20	7.2
108-88-3	Toluene	ND		20	10
156-60-5	trans-1,2-Dichloroethene	ND		20	18
10061-02-6	trans-1,3-Dichloropropene	ND		20	7.4
79-01-6	Trichloroethene	390		20	9.2
75-69-4	Trichlorofluoromethane	ND		20	18
75-01-4	Vinyl chloride	ND		20	18
1330-20-7	Xylenes, Total	ND		40	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3142.D  
 Lims ID: 480-156213-D-13  
 Client ID: 356023-MW4  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 03:11:30 ALS Bottle#: 20 Worklist Smp#: 21  
 Purge Vol: 5.000 mL Dil. Factor: 20.0000  
 Sample Info: 480-156213-D-13  
 Misc. Info.: 480-0082700-021  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:31:48 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 13:31:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.678	4.688	-0.010	99	169040	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	735683	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	433348	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	93	244008	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	272818	25.4	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	879484	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	316729	26.2	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	97	48727	6.29	
23 Acetone	43		2.460				ND	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	87	10826	0.6897	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	95	16879	1.14	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	78	3657	0.3570	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83	4.087	4.076	-0.010	88	2511	0.1589	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	98	630556	54.9	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	Ua

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	95	183091	19.3	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3142.D

Injection Date: 18-Jul-2019 03:11:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-13

Lab Sample ID: 480-156213-13

Worklist Smp#: 21

Client ID: 356023-MW4

Purge Vol: 5.000 mL

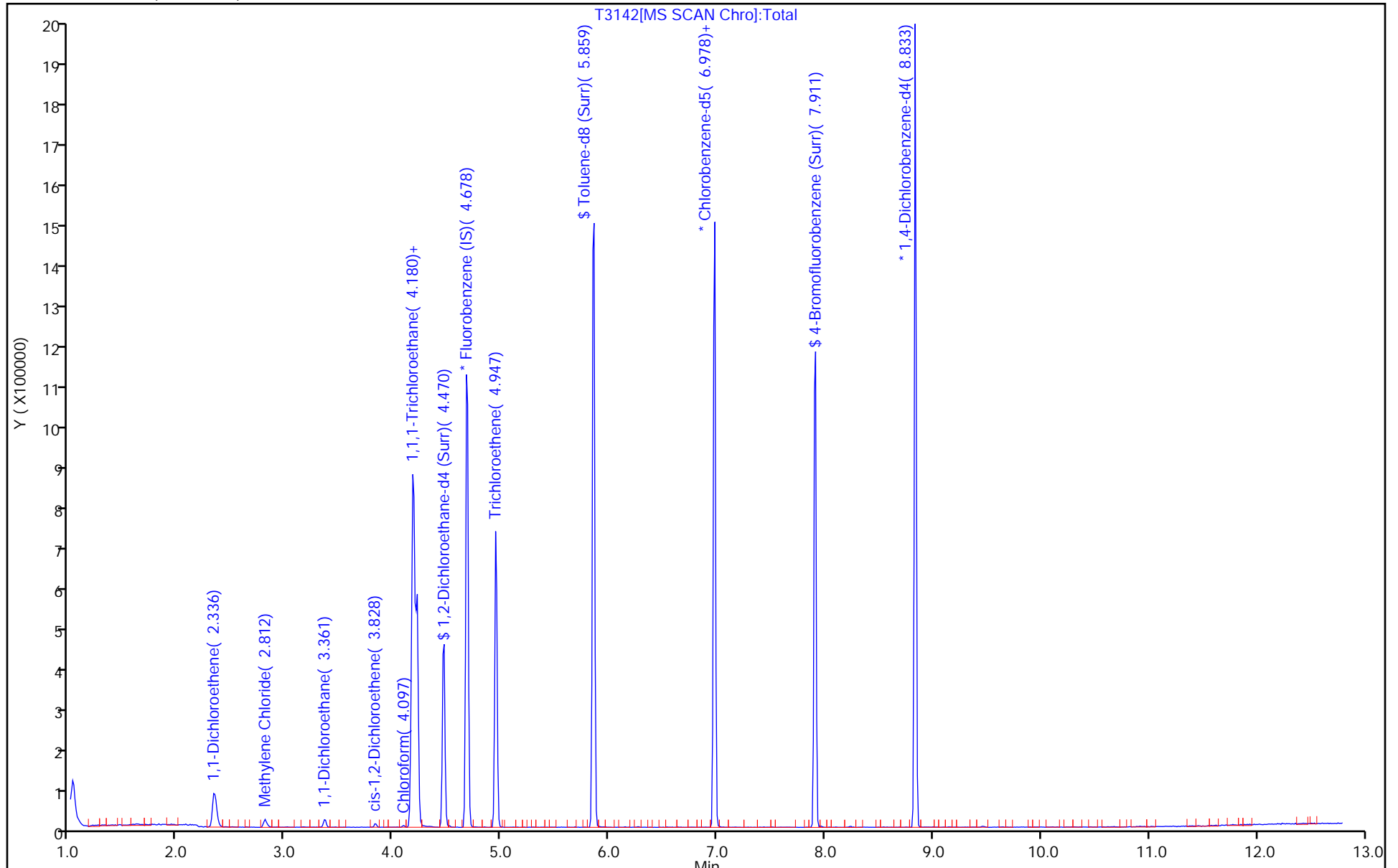
Dil. Factor: 20.0000

ALS Bottle#: 20

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3142.D

Injection Date: 18-Jul-2019 03:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-13

Lab Sample ID: 480-156213-13

Client ID: 356023-MW4

Operator ID: AEM

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

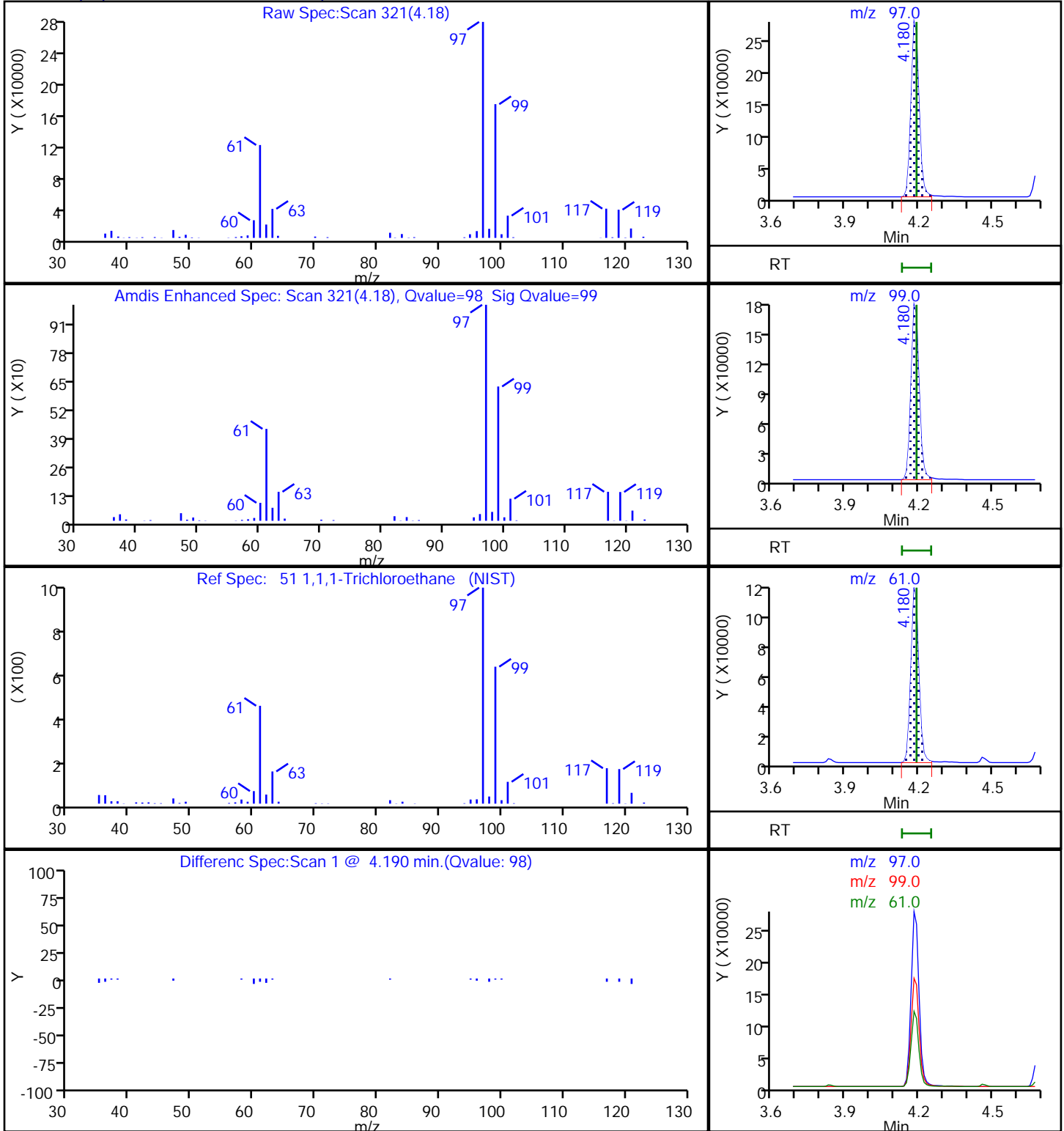
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3142.D

Injection Date: 18-Jul-2019 03:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-13

Lab Sample ID: 480-156213-13

Client ID: 356023-MW4

Operator ID: AEM

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

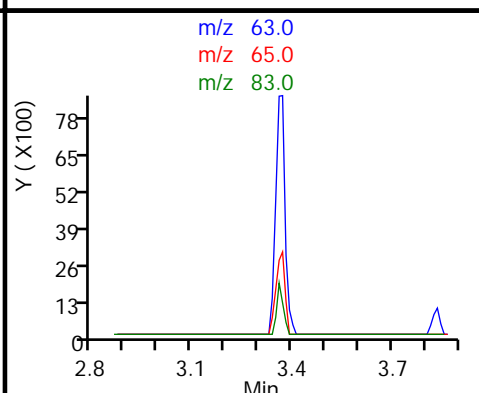
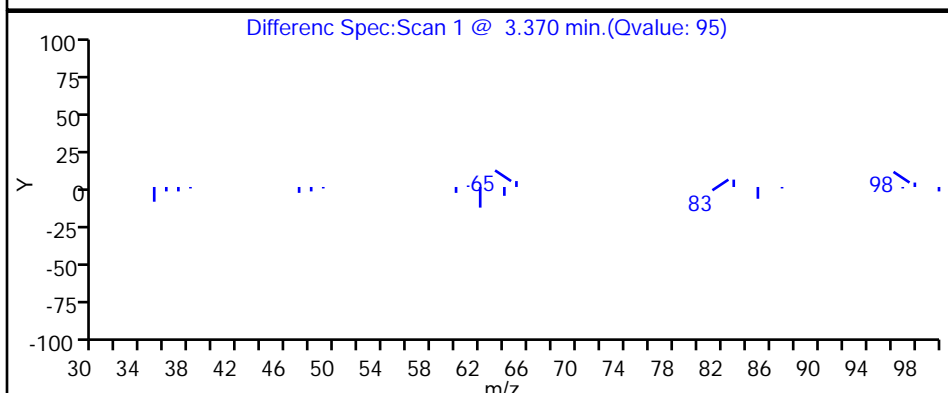
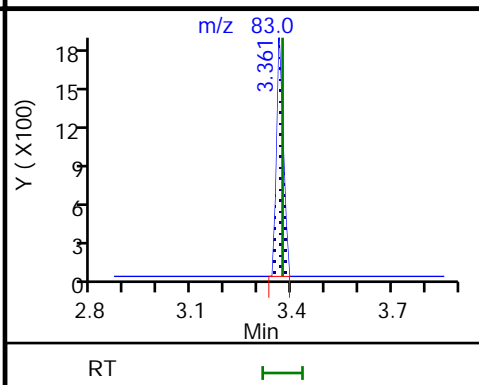
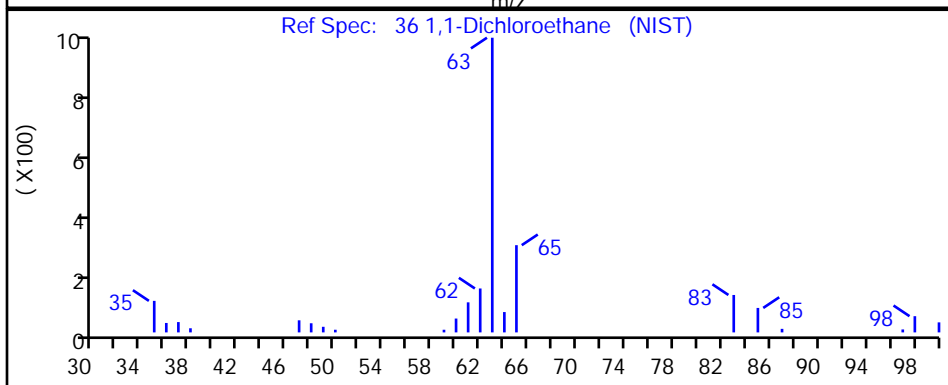
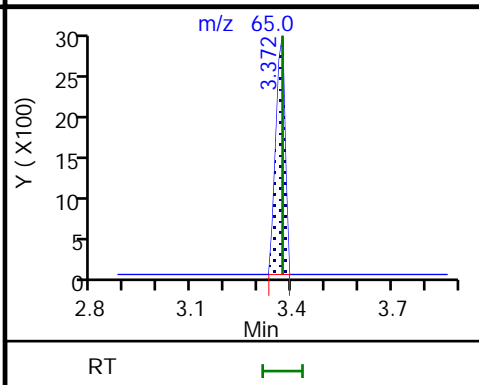
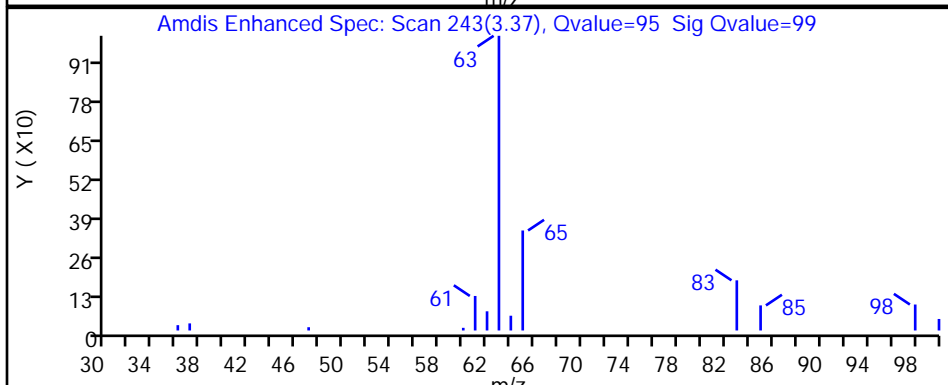
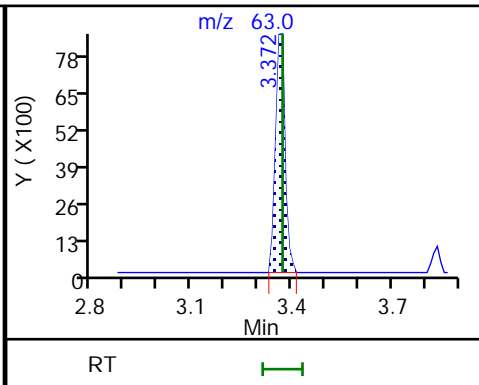
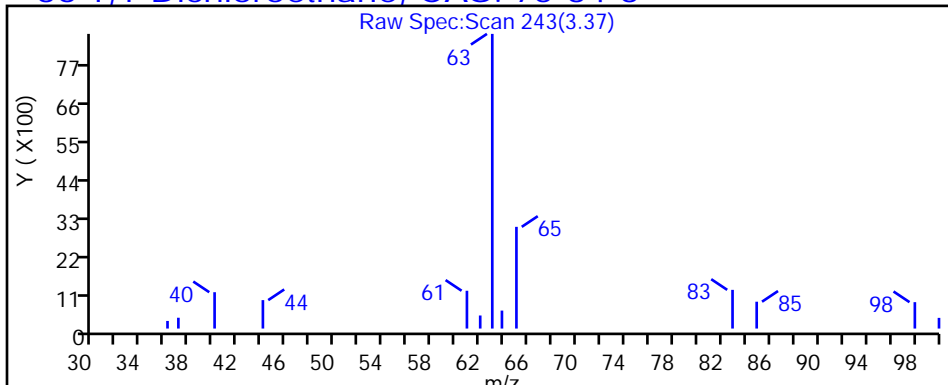
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3142.D

Injection Date: 18-Jul-2019 03:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-13

Lab Sample ID: 480-156213-13

Client ID: 356023-MW4

Operator ID: AEM

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

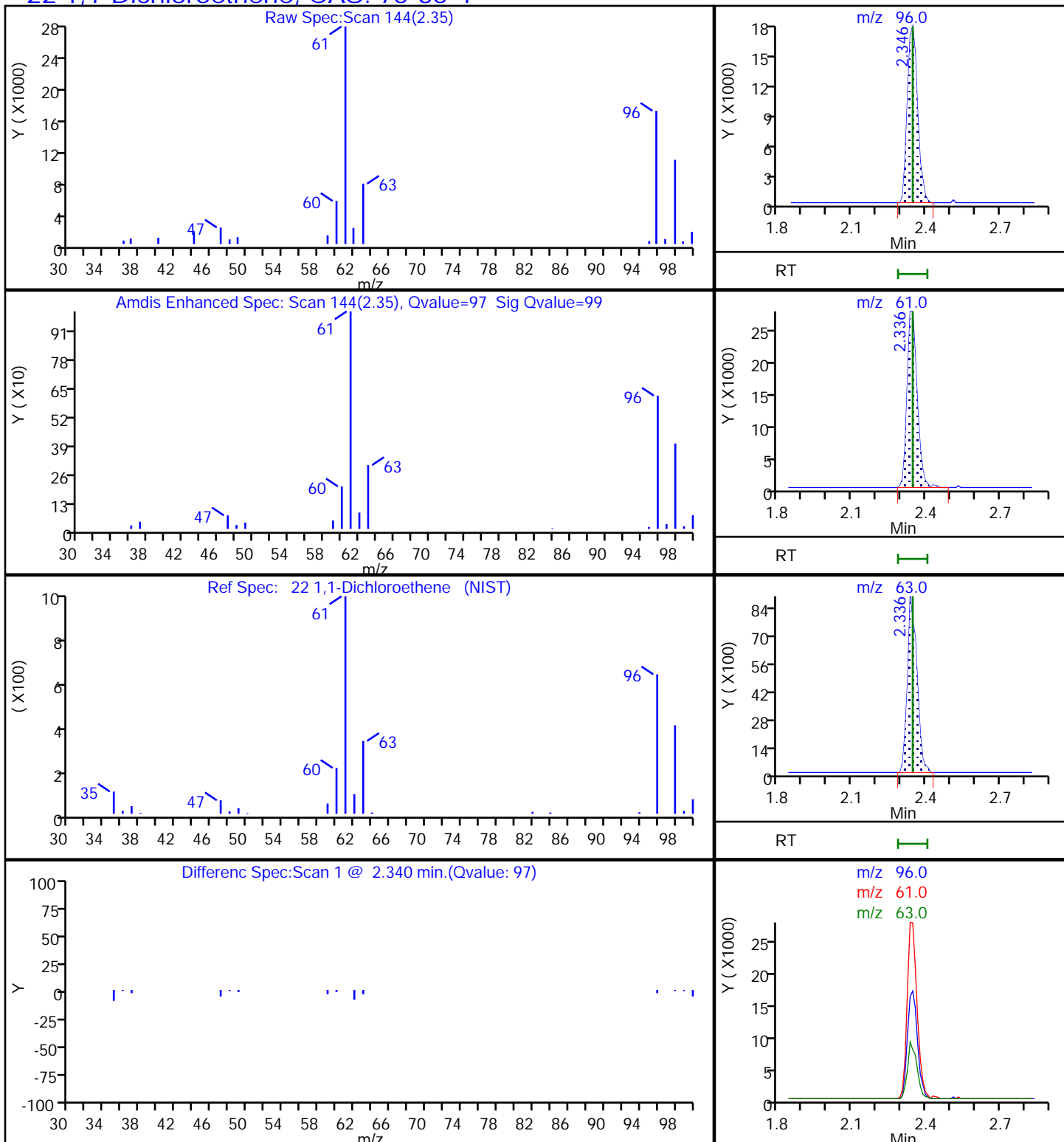
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3142.D

Injection Date: 18-Jul-2019 03:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-13

Lab Sample ID: 480-156213-13

Client ID: 356023-MW4

Operator ID: AEM

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

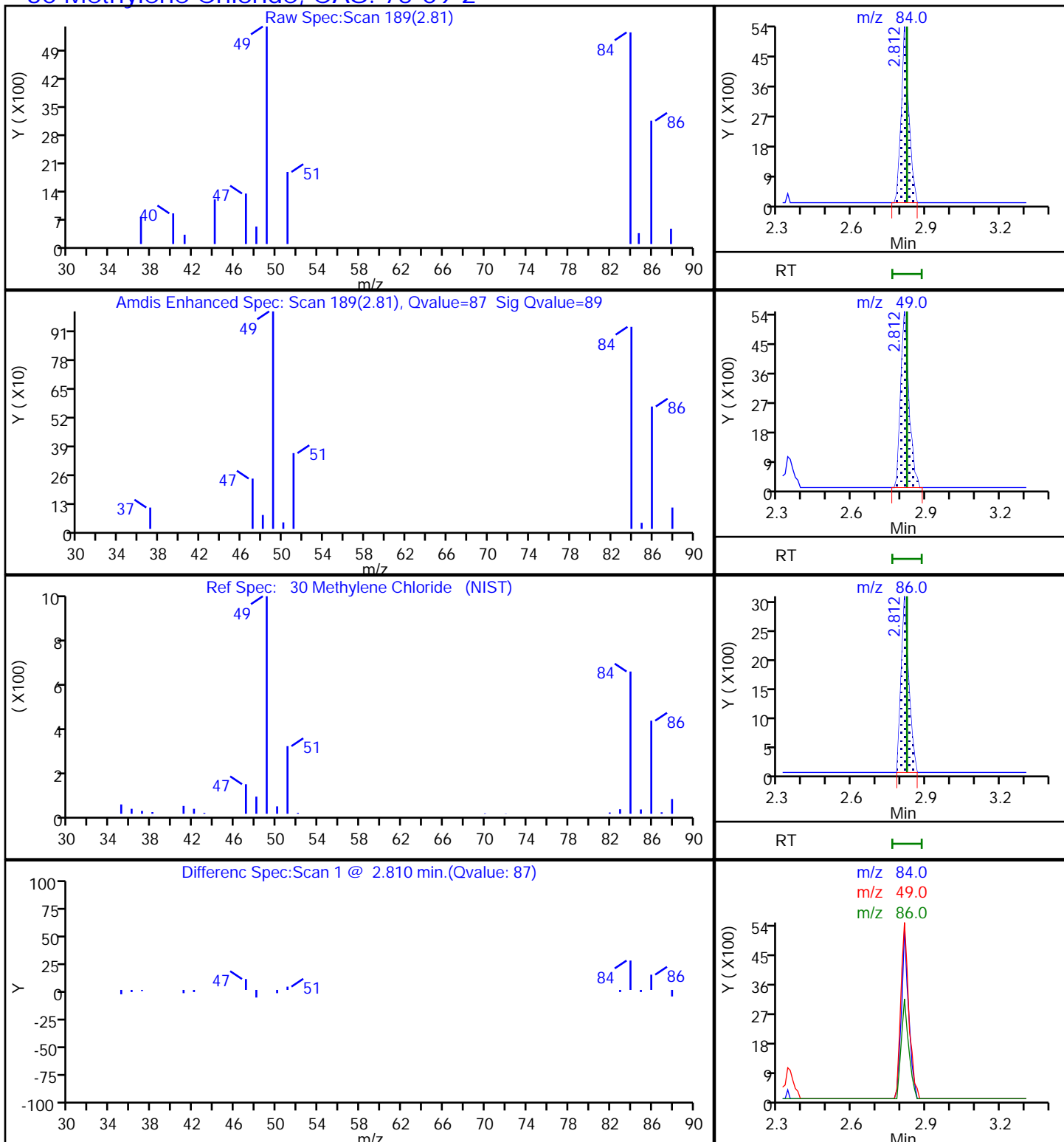
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 30 Methylene Chloride, CAS: 75-09-2



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3142.D

Injection Date: 18-Jul-2019 03:11:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-13

Lab Sample ID: 480-156213-13

Client ID: 356023-MW4

Operator ID: AEM

ALS Bottle#: 20

Worklist Smp#: 21

Purge Vol: 5.000 mL

Dil. Factor: 20.0000

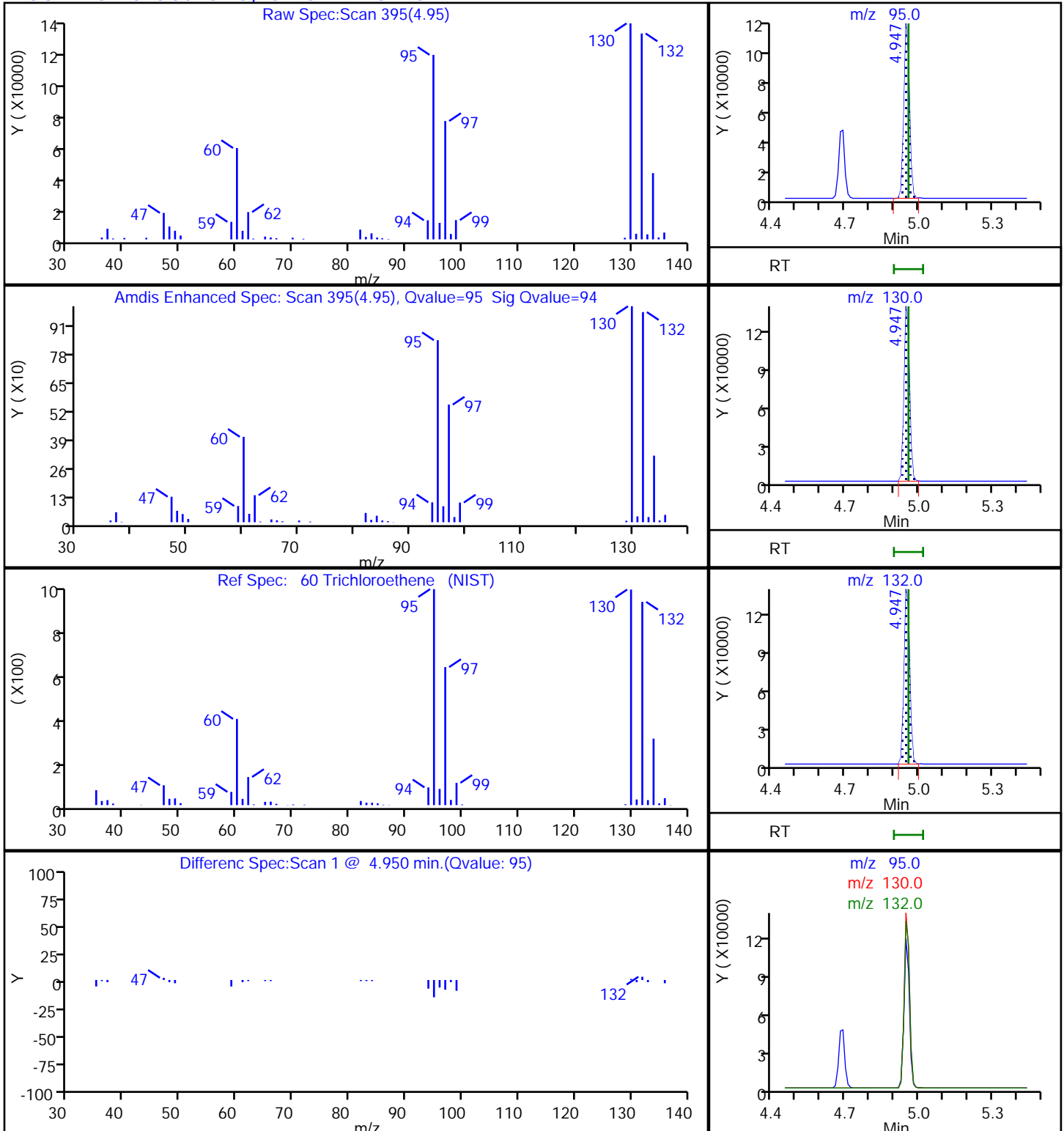
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6





FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B Lab Sample ID: 480-156213-14  
 Matrix: Water Lab File ID: T3143.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 03:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	8.2	F1	1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	1.8		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND	F1	1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND	F1	1.0	0.39
75-25-2	Bromoform	ND	* F1	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	* F1	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B Lab Sample ID: 480-156213-14  
 Matrix: Water Lab File ID: T3143.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 03:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND	F1	1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3143.D  
 Lims ID: 480-156213-D-14  
 Client ID: 356023-MW6B  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 03:34:30 ALS Bottle#: 21 Worklist Smp#: 22  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-14  
 Misc. Info.: 480-0082700-022  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:32:50 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:32:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	169140	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	740637	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	431582	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	93	243598	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	269702	25.1	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	876840	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	319948	26.3	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.335	2.335	-0.011	98	13891	1.79	
23 Acetone	43	2.460	2.460	0.000	29	3021	1.16	a
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	80	6926	0.2604	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	92	4067	0.2745	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	97	94450	8.22	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

a - User Assigned ID

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3143.D

Injection Date: 18-Jul-2019 03:34:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-14

Lab Sample ID: 480-156213-14

Worklist Smp#: 22

Client ID: 356023-MW6B

Purge Vol: 5.000 mL

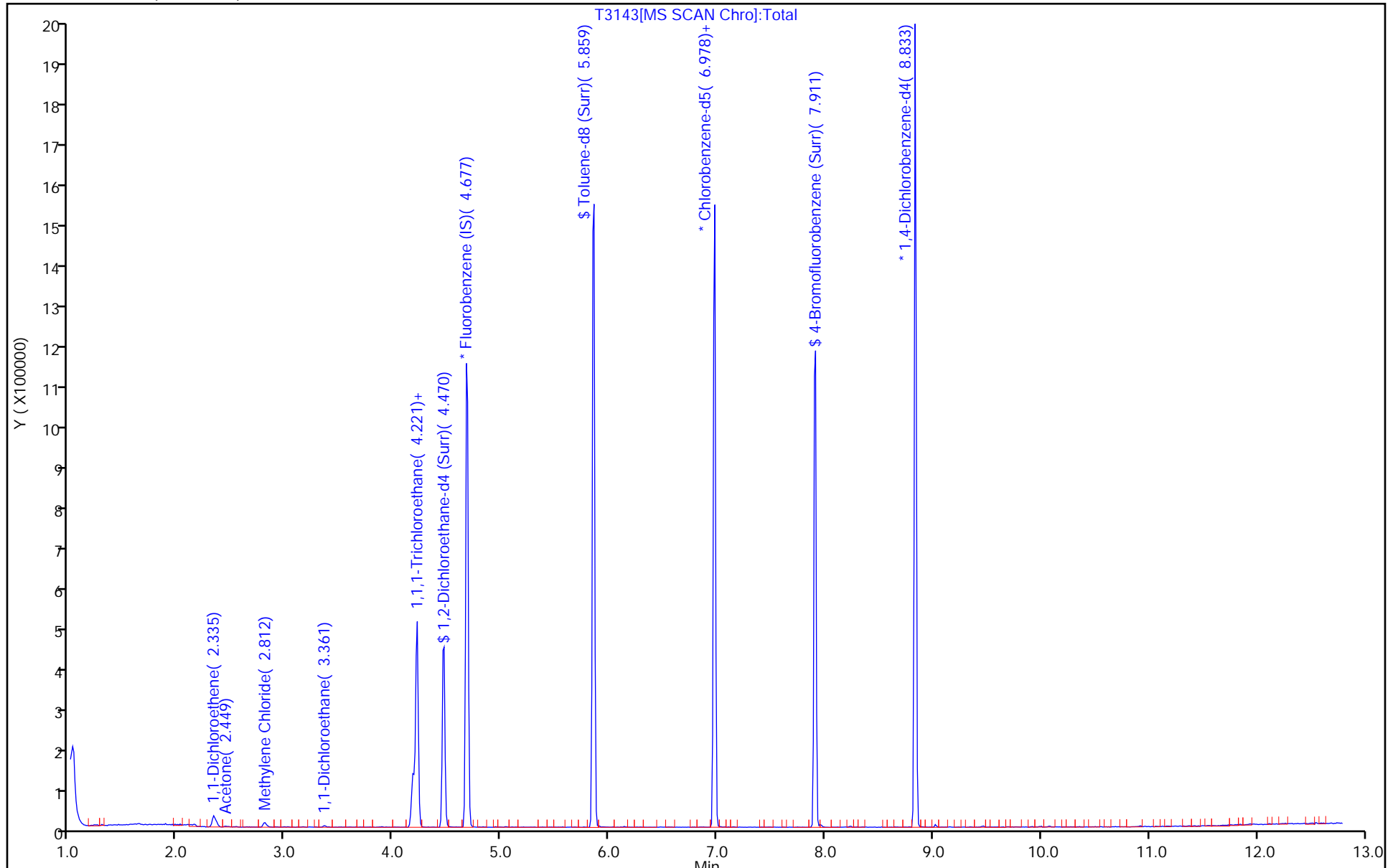
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3143.D

Injection Date: 18-Jul-2019 03:34:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-14

Lab Sample ID: 480-156213-14

Client ID: 356023-MW6B

Operator ID: AEM

ALS Bottle#: 21

Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

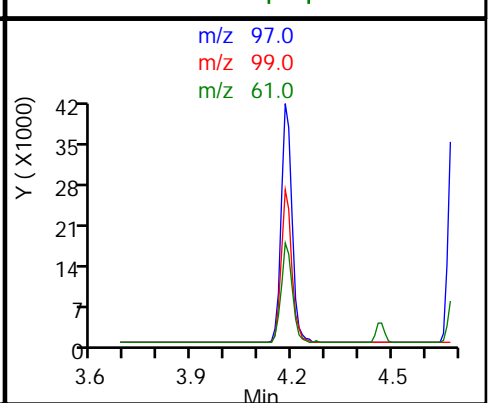
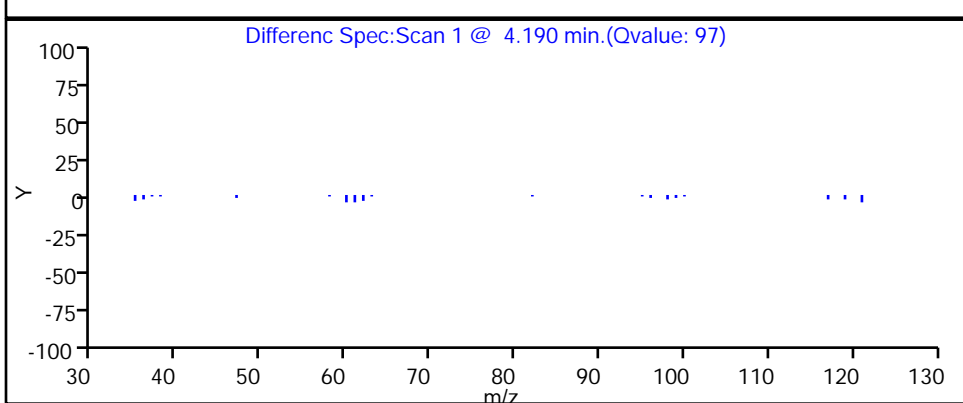
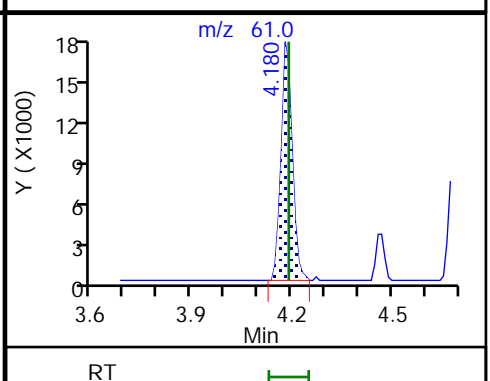
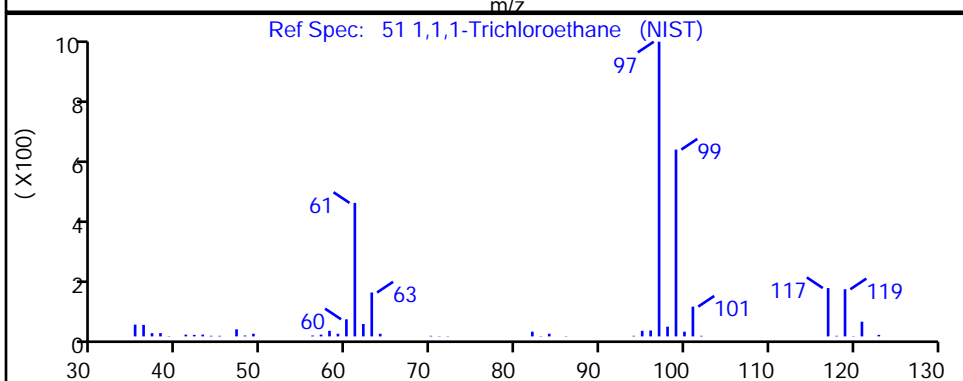
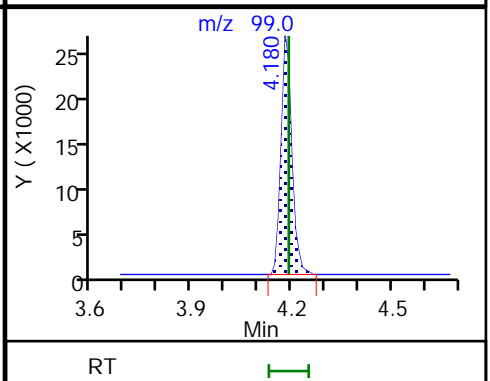
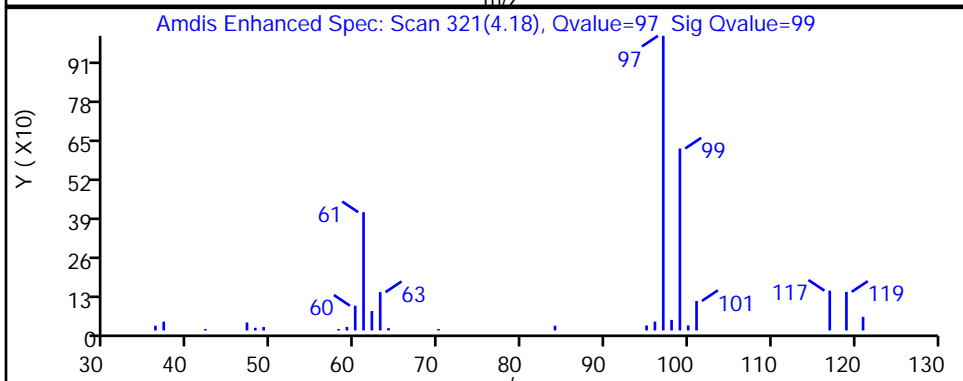
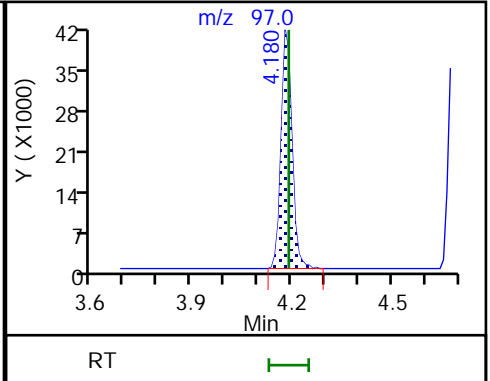
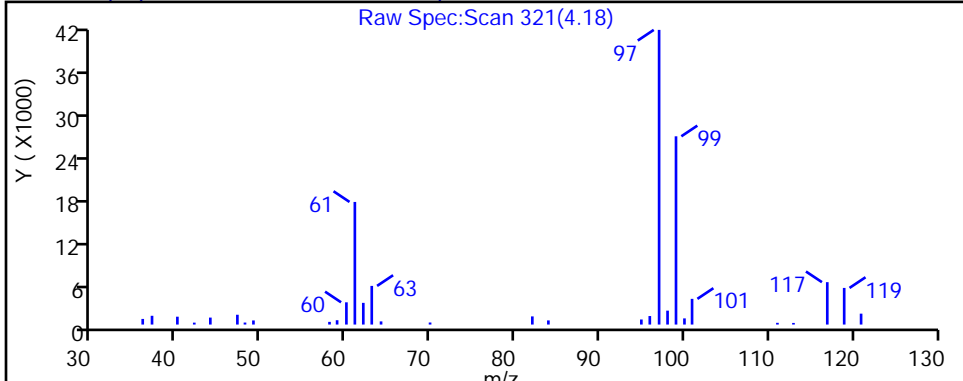
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3143.D

Injection Date: 18-Jul-2019 03:34:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-14

Lab Sample ID: 480-156213-14

Client ID: 356023-MW6B

Operator ID: AEM

ALS Bottle#: 21 Worklist Smp#: 22

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

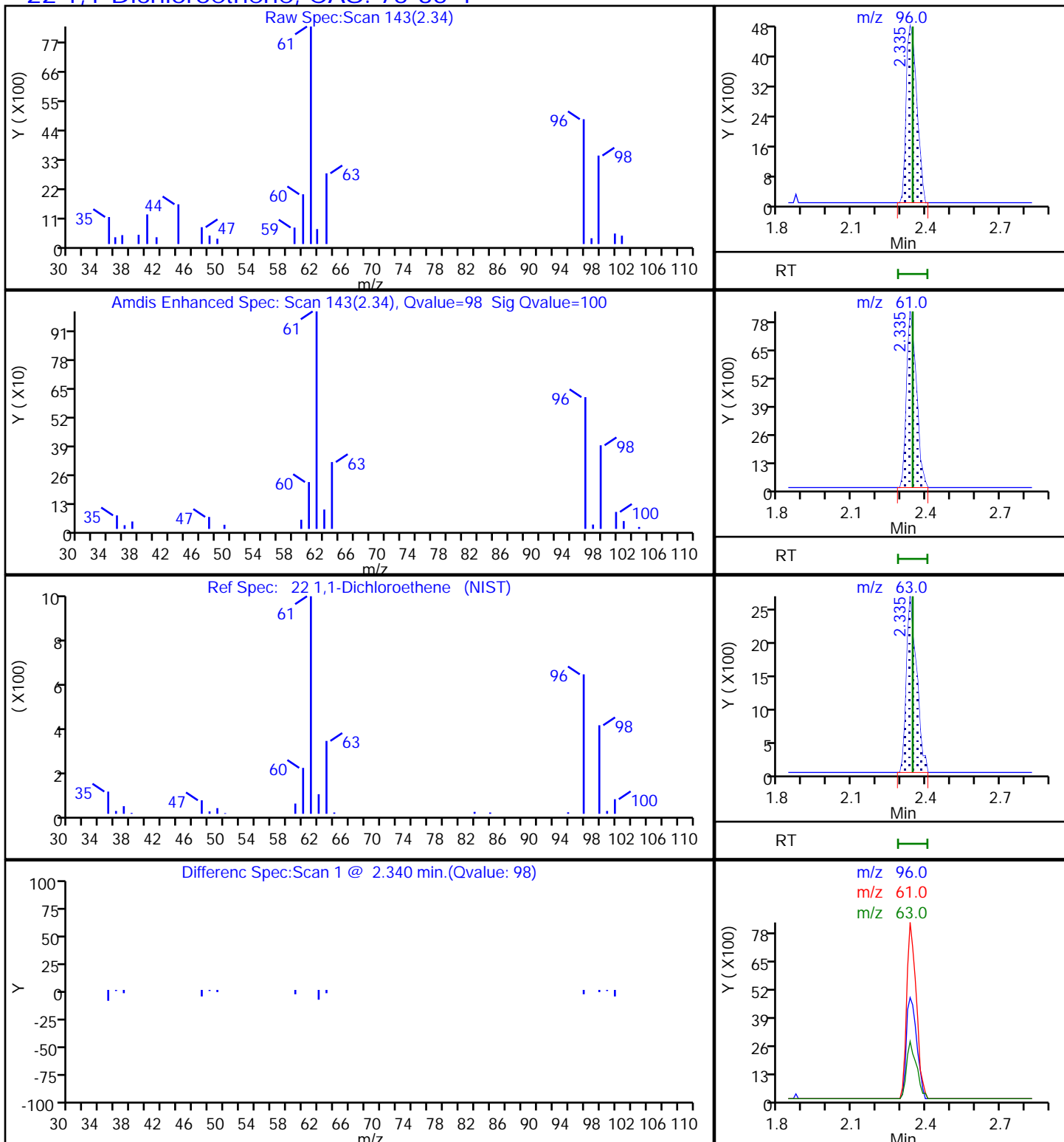
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Euofins TestAmerica, Buffalo

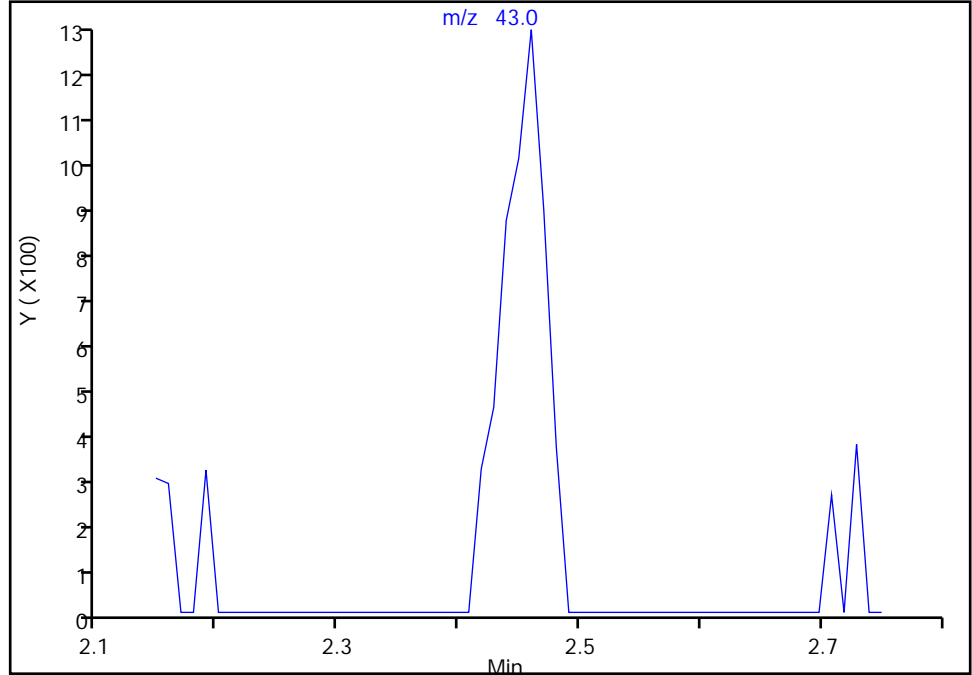
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Injection Date: 18-Jul-2019 03:34:30 Instrument ID: HP5975T  
Lims ID: 480-156213-D-14 Lab Sample ID: 480-156213-14  
Client ID: 356023-MW6B  
Operator ID: AEM ALS Bottle#: 21 Worklist Smp#: 22  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

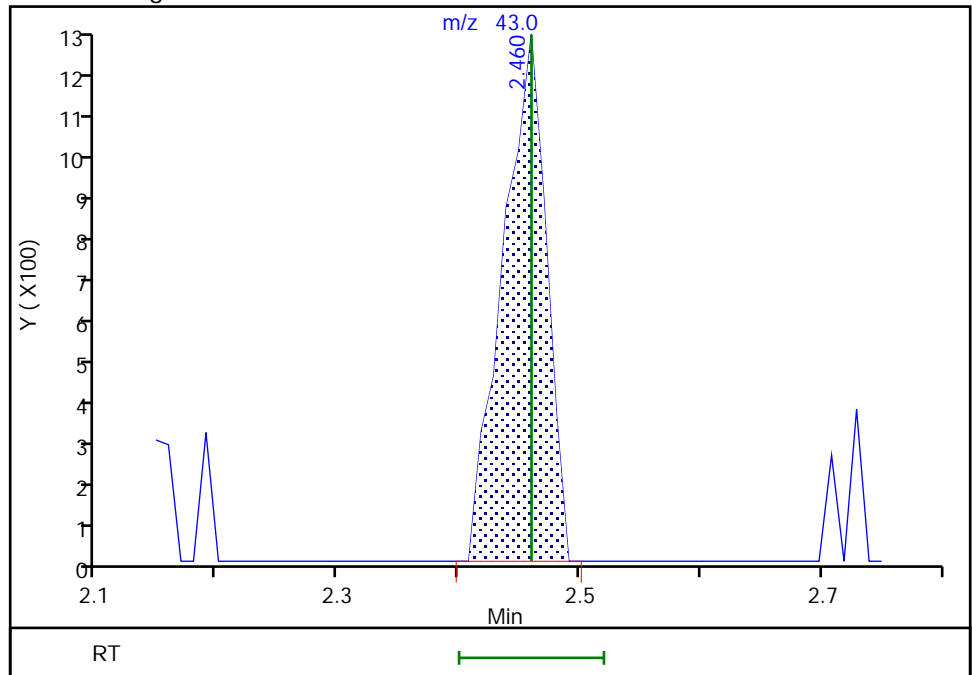
Not Detected  
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.46  
Area: 3021  
Amount: 1.155892  
Amount Units: ug/L



Reviewer: farrellr, 18-Jul-2019 13:32:23  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW15B Lab Sample ID: 480-156213-15  
 Matrix: Water Lab File ID: T3144.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 09:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 03:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	8.3		1.0	0.38
75-35-4	1,1-Dichloroethene	19		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW15B Lab Sample ID: 480-156213-15  
 Matrix: Water Lab File ID: T3144.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 09:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 03:58  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	1.2		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3144.D  
 Lims ID: 480-156213-D-15  
 Client ID: 356023-MW15B  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 03:58:30 ALS Bottle#: 22 Worklist Smp#: 23  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-15  
 Misc. Info.: 480-0082700-023  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:32:50 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:38:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	165617	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	742540	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	431417	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	93	239735	26.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	270454	25.7	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	864497	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	316544	25.9	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	98	141553	18.6	
23 Acetone	43	2.460	2.460	0.000	99	5386	2.10	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	93	7470	0.3376	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	96	120999	8.34	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.190	4.190	0.000	98	290506	25.8	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	93	10985	1.18	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

**Reagents:**

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3144.D

Injection Date: 18-Jul-2019 03:58:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-15

Lab Sample ID: 480-156213-15

Worklist Smp#: 23

Client ID: 356023-MW15B

Purge Vol: 5.000 mL

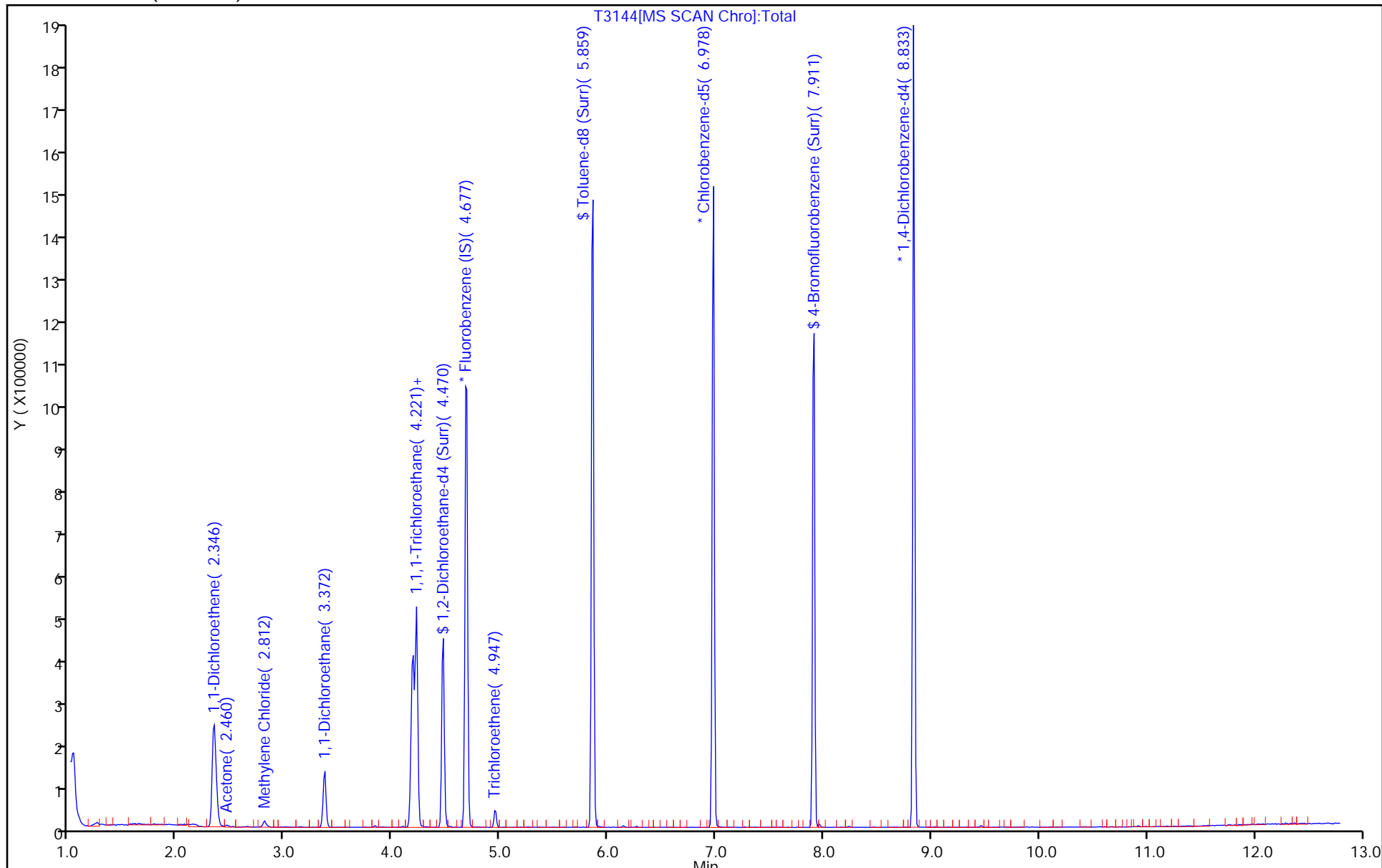
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3144.D

Injection Date: 18-Jul-2019 03:58:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-15

Lab Sample ID: 480-156213-15

Client ID: 356023-MW15B

Operator ID: AEM

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

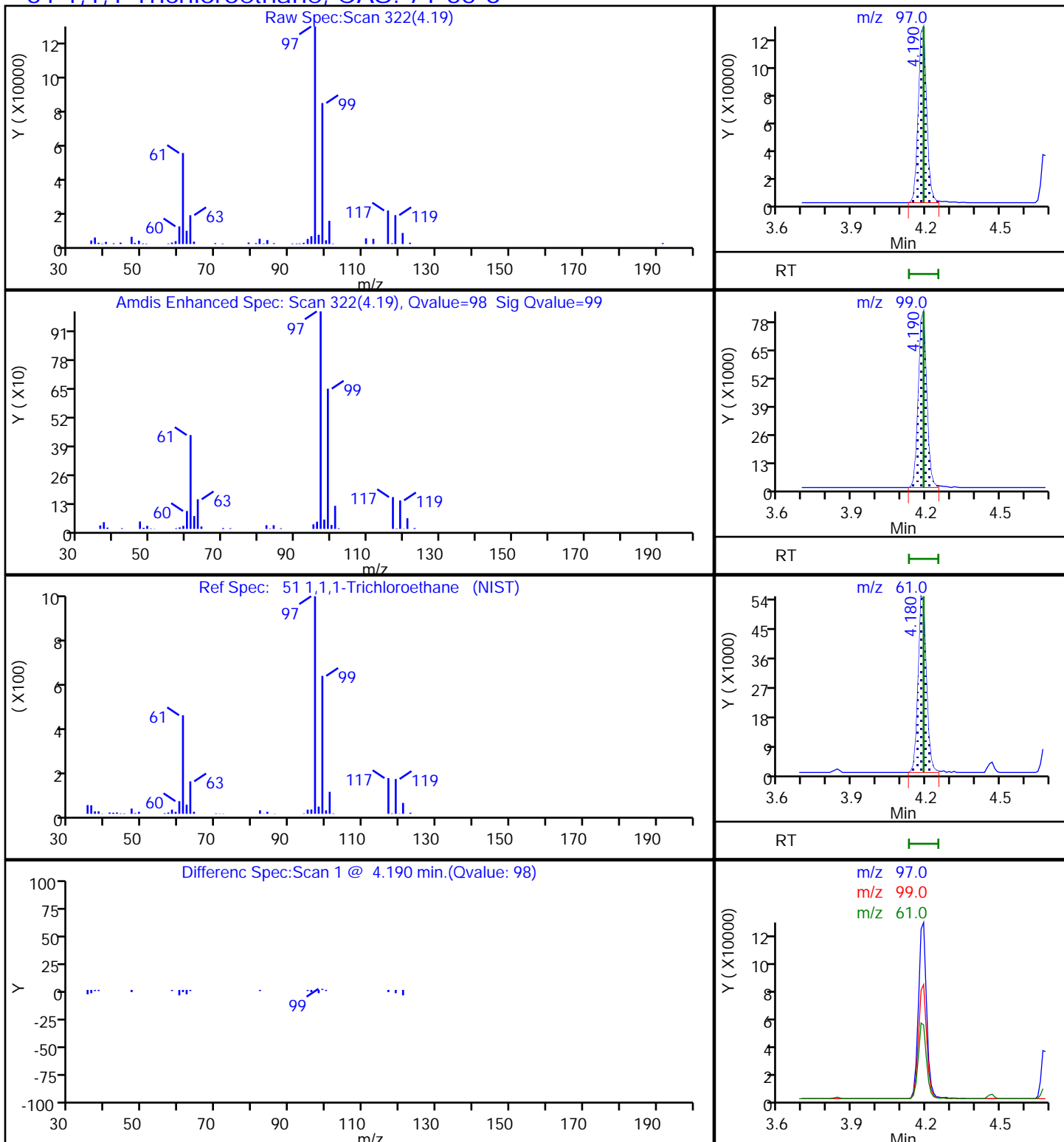
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3144.D

Injection Date: 18-Jul-2019 03:58:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-15

Lab Sample ID: 480-156213-15

Client ID: 356023-MW15B

Operator ID: AEM

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

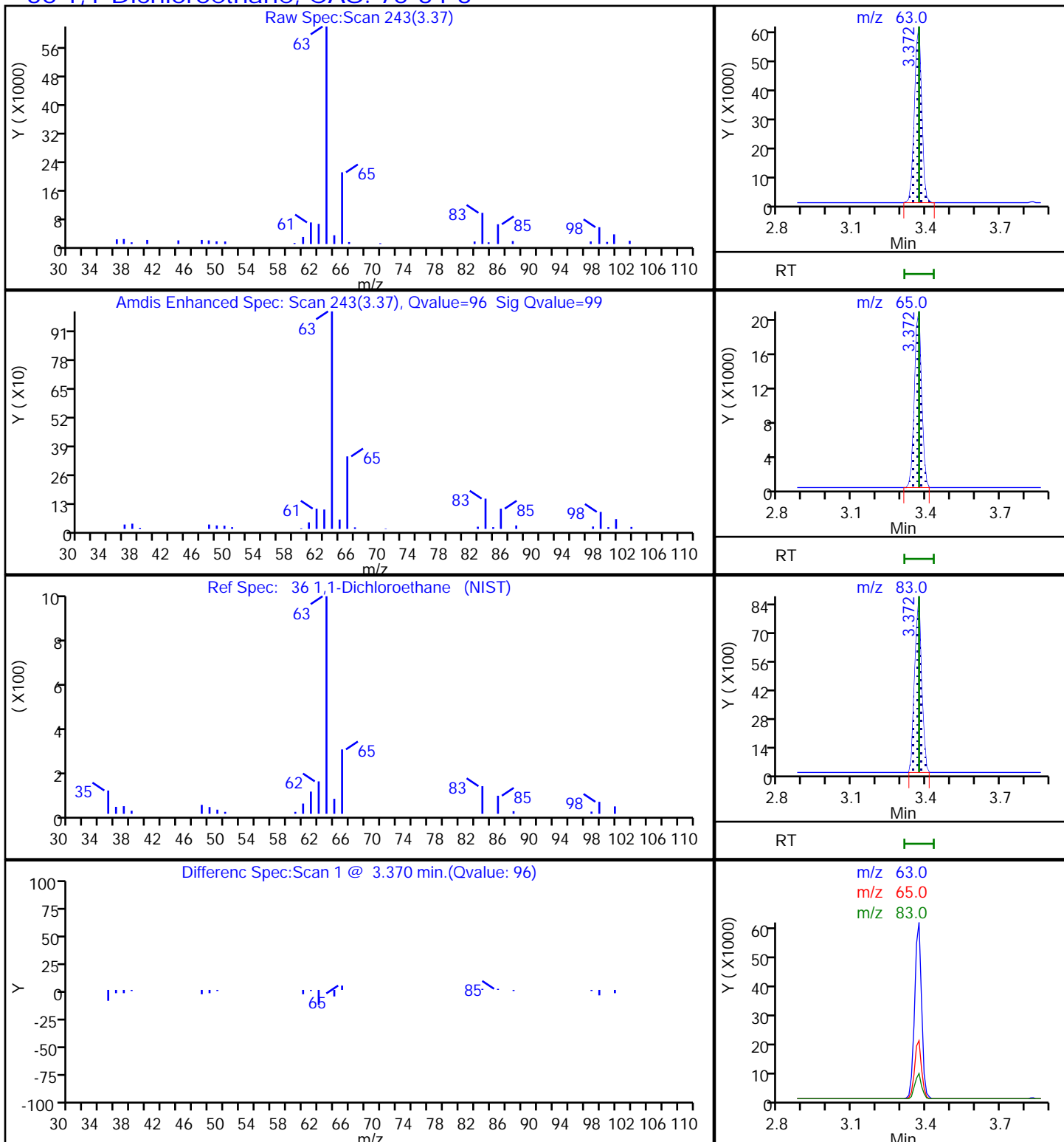
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3144.D

Injection Date: 18-Jul-2019 03:58:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-15

Lab Sample ID: 480-156213-15

Client ID: 356023-MW15B

Operator ID: AEM

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

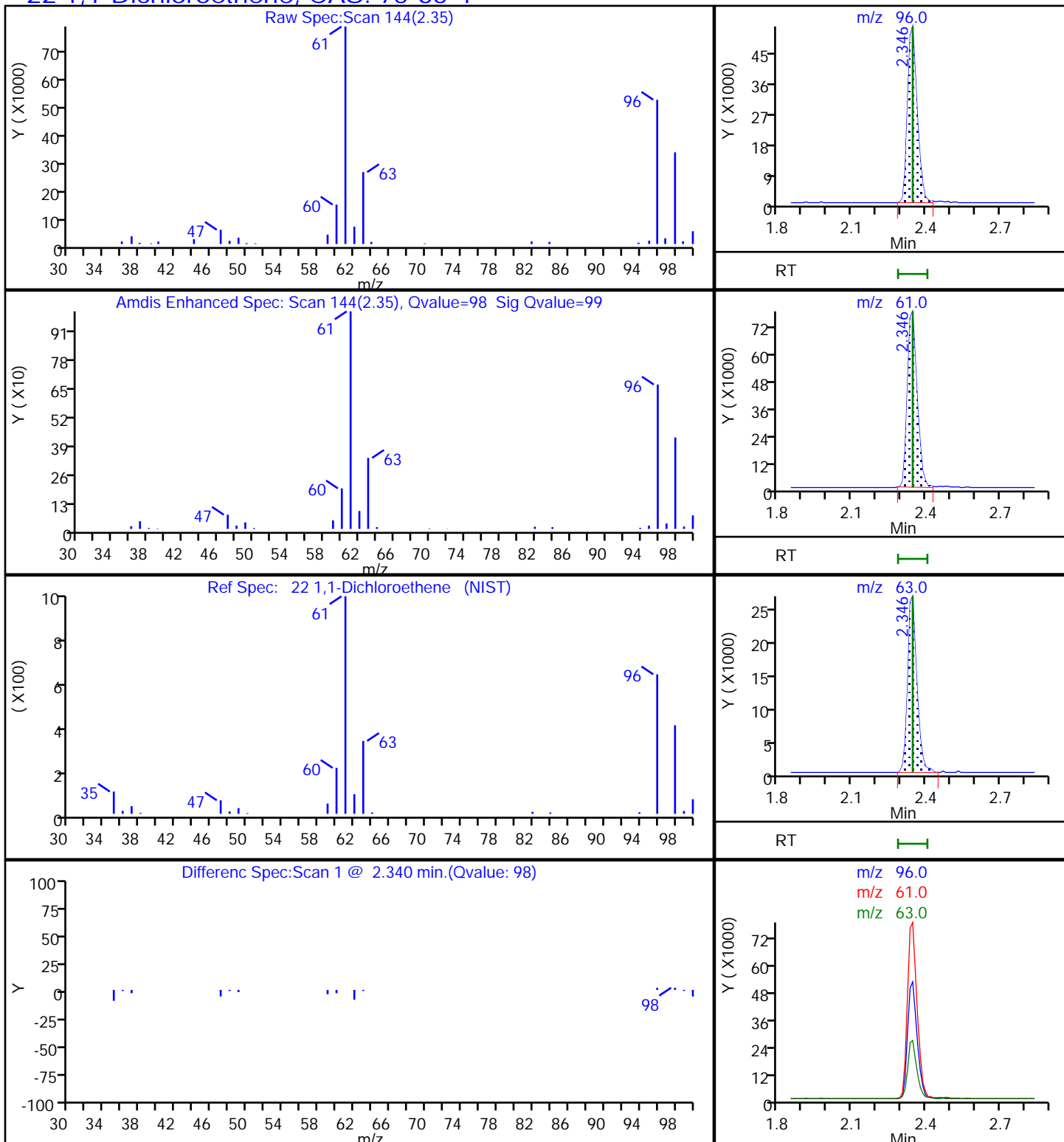
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4





Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3144.D

Injection Date: 18-Jul-2019 03:58:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-15

Lab Sample ID: 480-156213-15

Client ID: 356023-MW15B

Operator ID: AEM

ALS Bottle#: 22

Worklist Smp#: 23

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

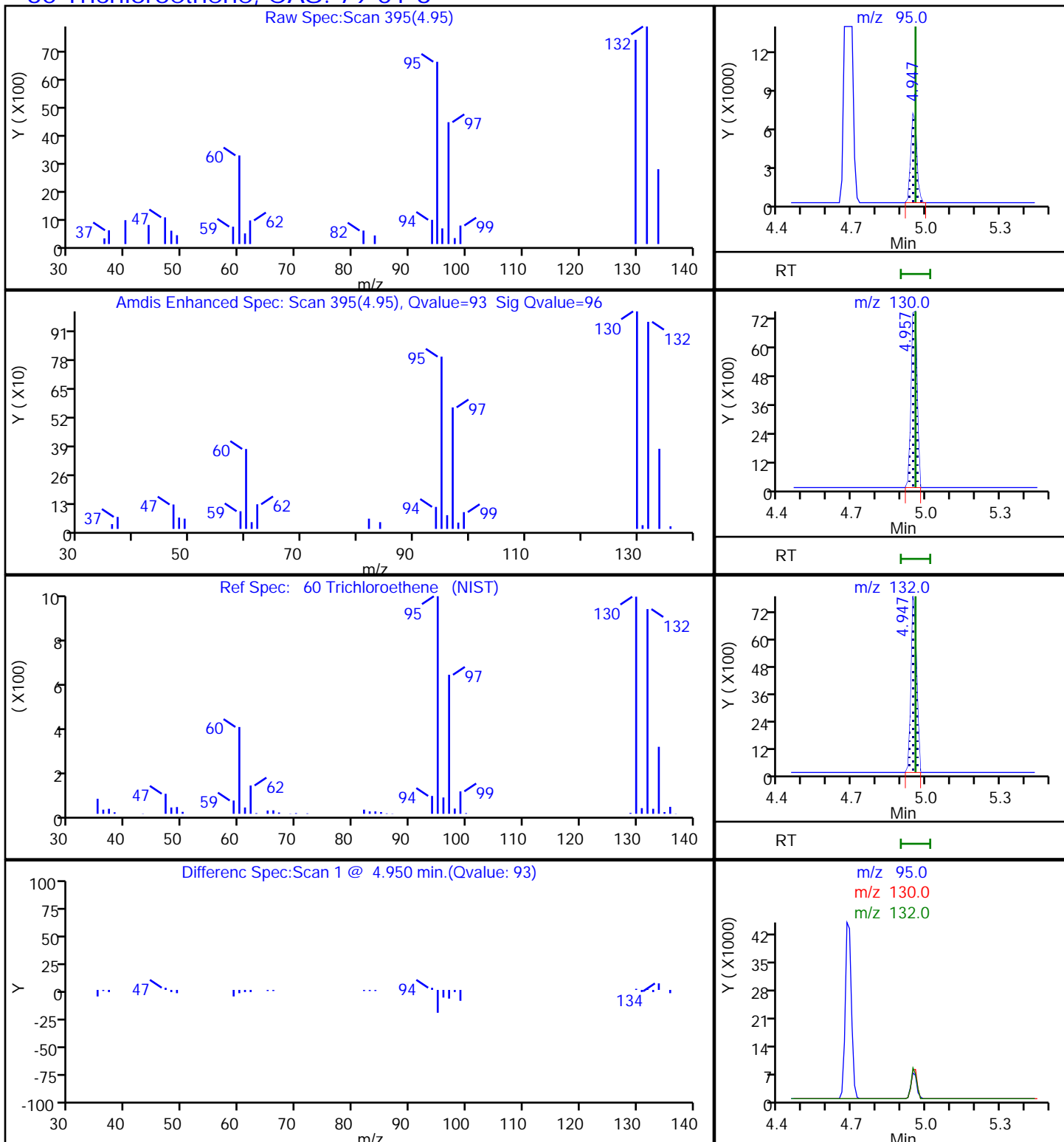
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 60 Trichloroethene, CAS: 79-01-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-EB1 Lab Sample ID: 480-156213-16  
 Matrix: Water Lab File ID: T3145.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 09:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 04:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	10		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-EB1 Lab Sample ID: 480-156213-16  
 Matrix: Water Lab File ID: T3145.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 09:45  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 04:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.60	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3145.D  
 Lims ID: 480-156213-C-16  
 Client ID: 356023-EB1  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 04:22:30 ALS Bottle#: 23 Worklist Smp#: 24  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-C-16  
 Misc. Info.: 480-0082700-024  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:39:37 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:39:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	169585	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	743325	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	432244	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	94	242012	25.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	276079	25.6	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	879106	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	328007	26.8	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96		2.346				ND	
23 Acetone	43	2.449	2.460	-0.011	97	26888	10.3	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	68	10018	0.5973	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63		3.372				ND	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	MU
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92	5.900	5.911	-0.011	95	2654	0.1103	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3145.D

Injection Date: 18-Jul-2019 04:22:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-C-16

Lab Sample ID: 480-156213-16

Worklist Smp#: 24

Client ID: 356023-EB1

Purge Vol: 5.000 mL

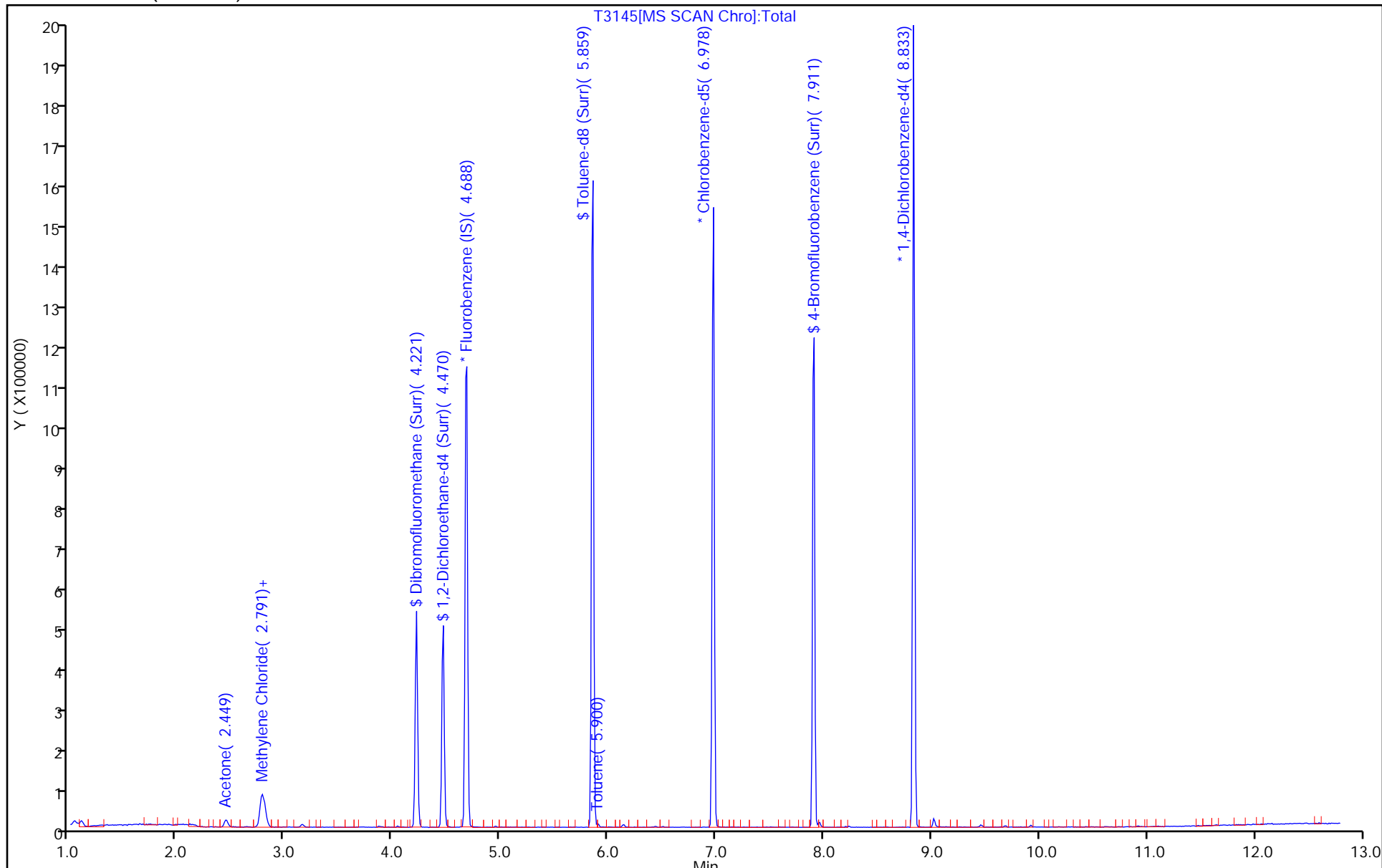
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3145.D

Injection Date: 18-Jul-2019 04:22:30

Instrument ID: HP5975T

Lims ID: 480-156213-C-16

Lab Sample ID: 480-156213-16

Client ID: 356023-EB1

Operator ID: AEM

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

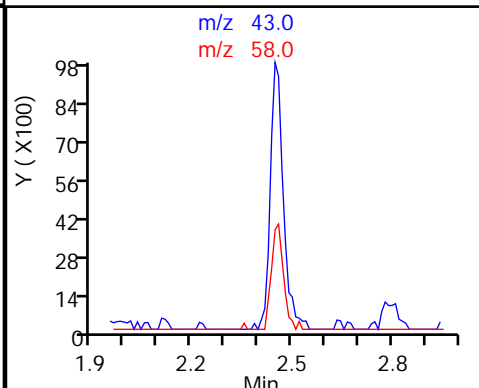
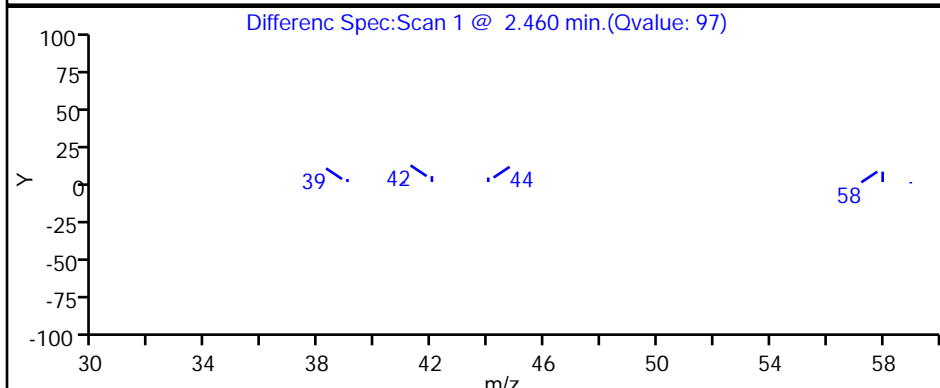
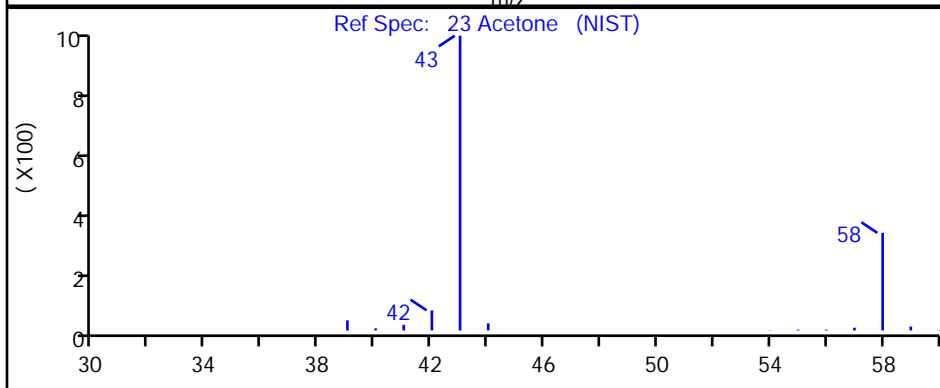
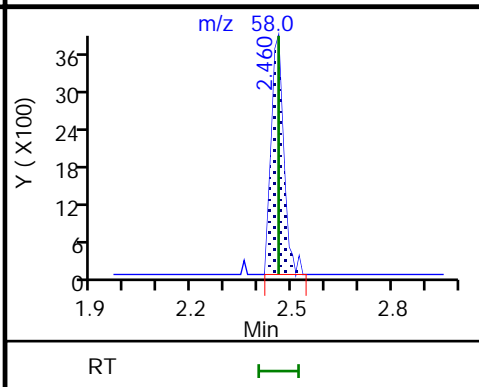
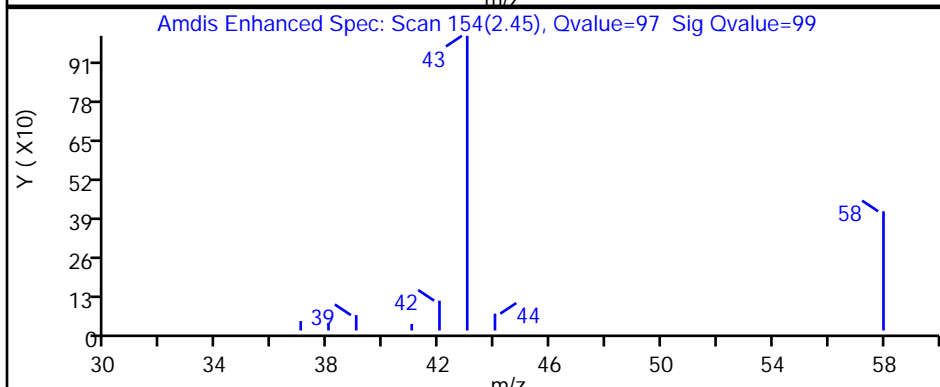
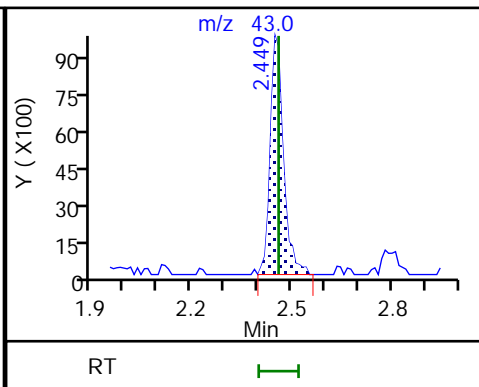
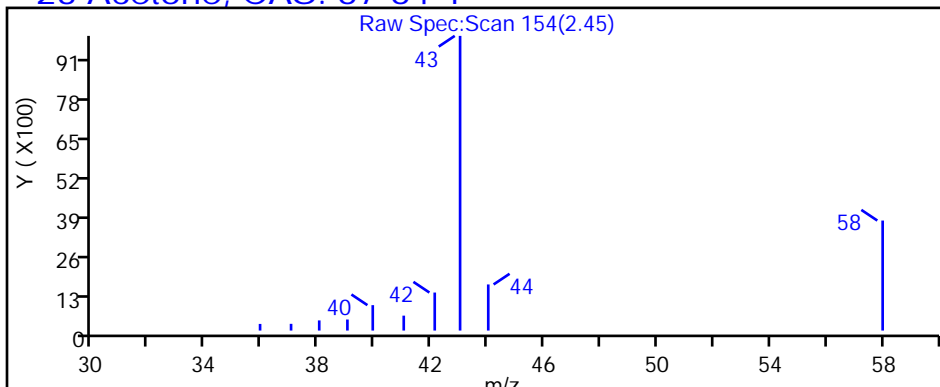
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3145.D

Injection Date: 18-Jul-2019 04:22:30

Instrument ID: HP5975T

Lims ID: 480-156213-C-16

Lab Sample ID: 480-156213-16

Client ID: 356023-EB1

Operator ID: AEM

ALS Bottle#: 23

Worklist Smp#: 24

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

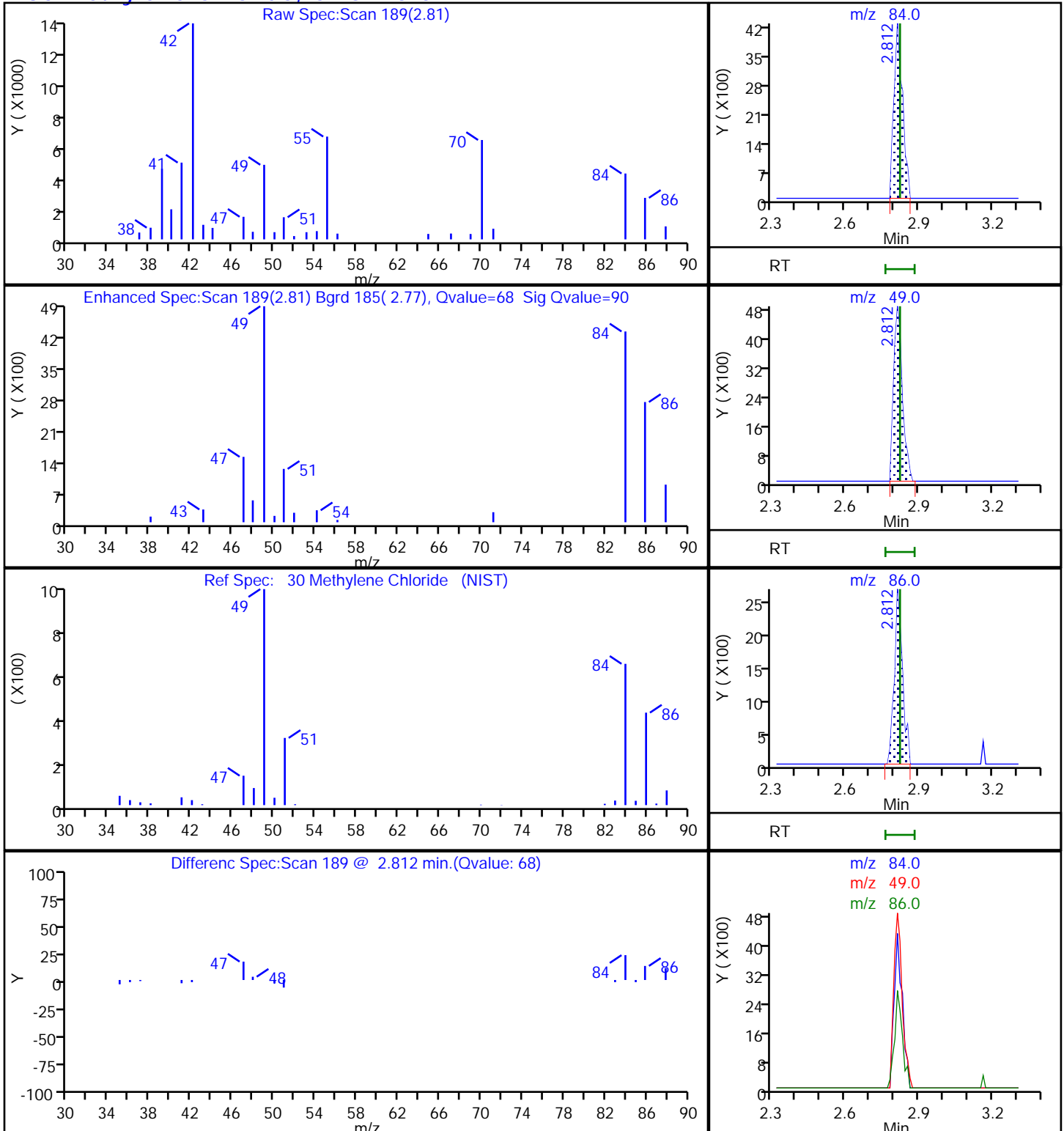
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 30 Methylene Chloride, CAS: 75-09-2





FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1B Lab Sample ID: 480-156213-17  
 Matrix: Water Lab File ID: T3146.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 11:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 04:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	6.1	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1B Lab Sample ID: 480-156213-17  
 Matrix: Water Lab File ID: T3146.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 11:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 04:46  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3146.D  
 Lims ID: 480-156213-D-17  
 Client ID: 356023-MW1B  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 04:46:30 ALS Bottle#: 24 Worklist Smp#: 25  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-17  
 Misc. Info.: 480-0082700-025  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:42:17 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:42:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	168574	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	741778	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	438143	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	93	243397	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.470	-0.010	0	272519	25.5	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	92	876475	24.1	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	314463	25.8	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96		2.346				ND	
23 Acetone	43	2.449	2.460	-0.011	99	15931	6.12	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	92	6619	0.2291	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63		3.372				ND	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	U
73 Toluene	92		5.911				ND	Ua
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3146.D

Injection Date: 18-Jul-2019 04:46:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-17

Lab Sample ID: 480-156213-17

Worklist Smp#: 25

Client ID: 356023-MW1B

Purge Vol: 5.000 mL

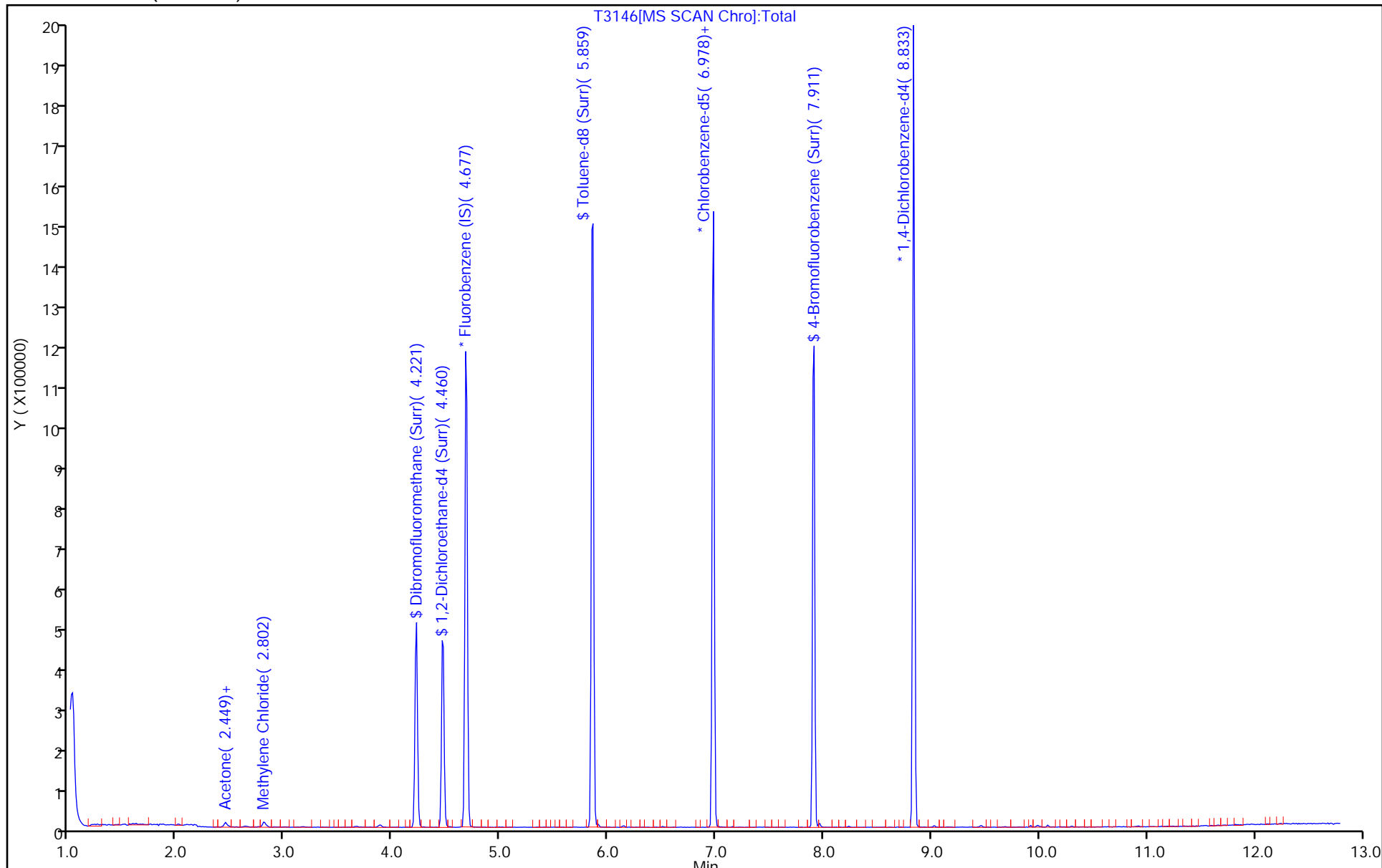
Dil. Factor: 1.0000

ALS Bottle#: 24

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3146.D

Injection Date: 18-Jul-2019 04:46:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-17

Lab Sample ID: 480-156213-17

Client ID: 356023-MW1B

Operator ID: AEM

ALS Bottle#: 24

Worklist Smp#: 25

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

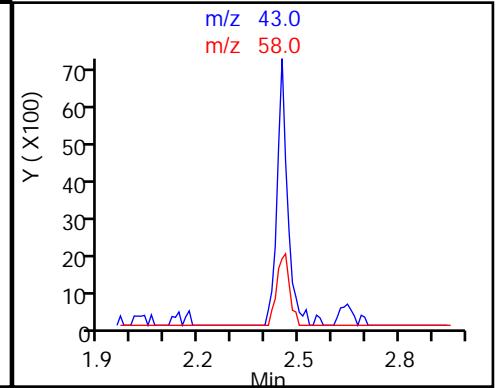
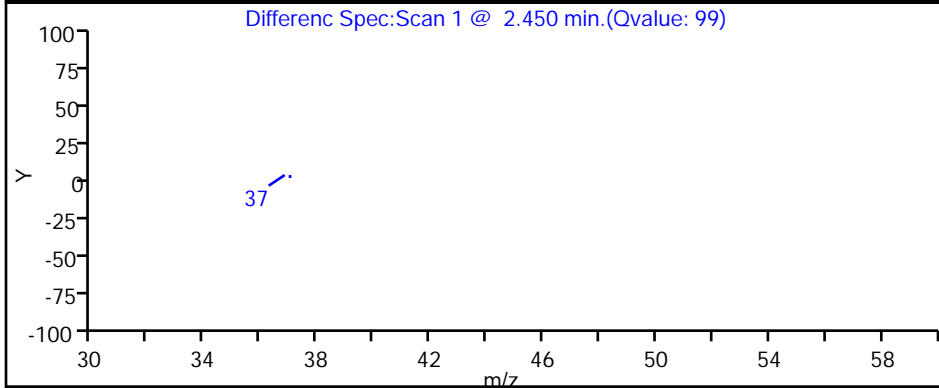
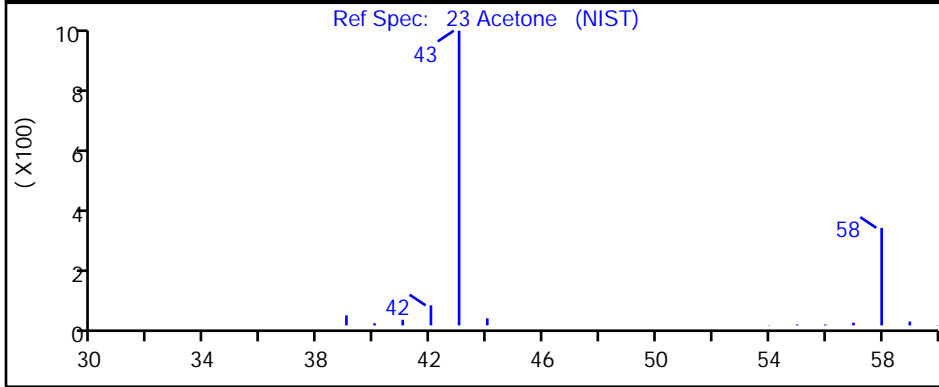
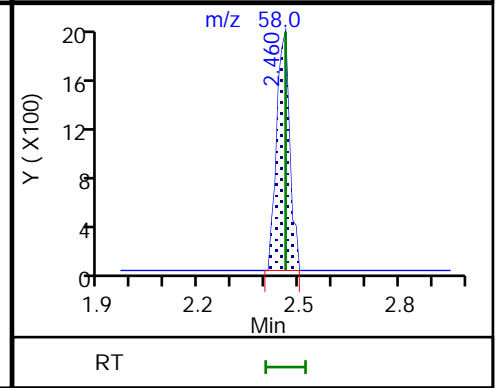
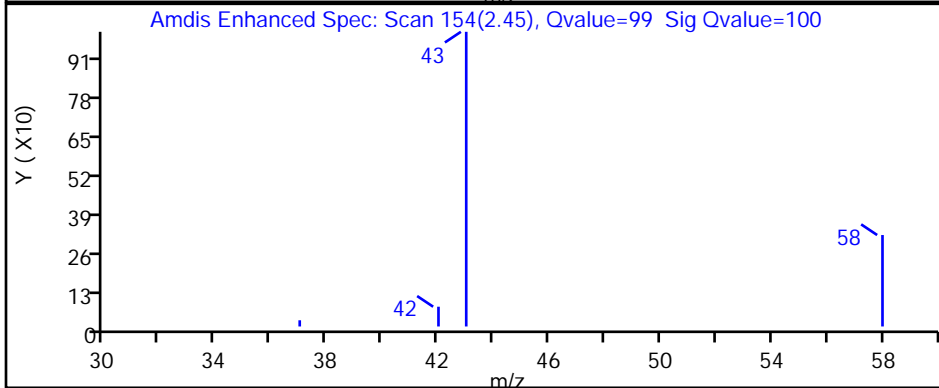
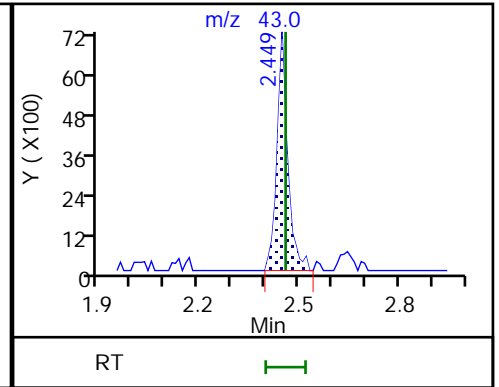
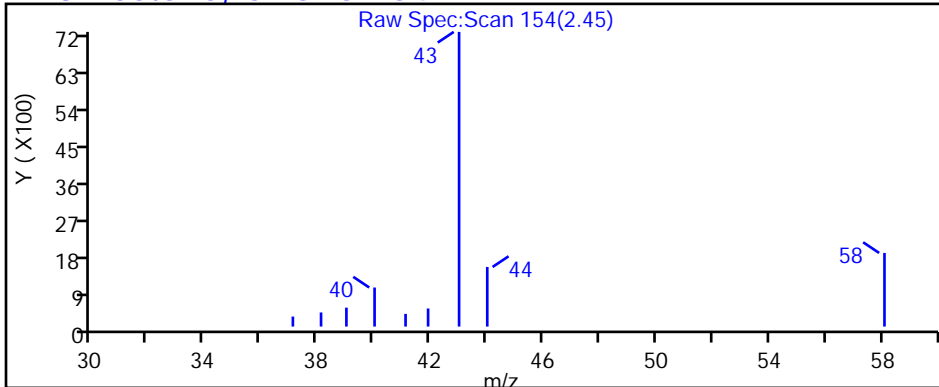
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1

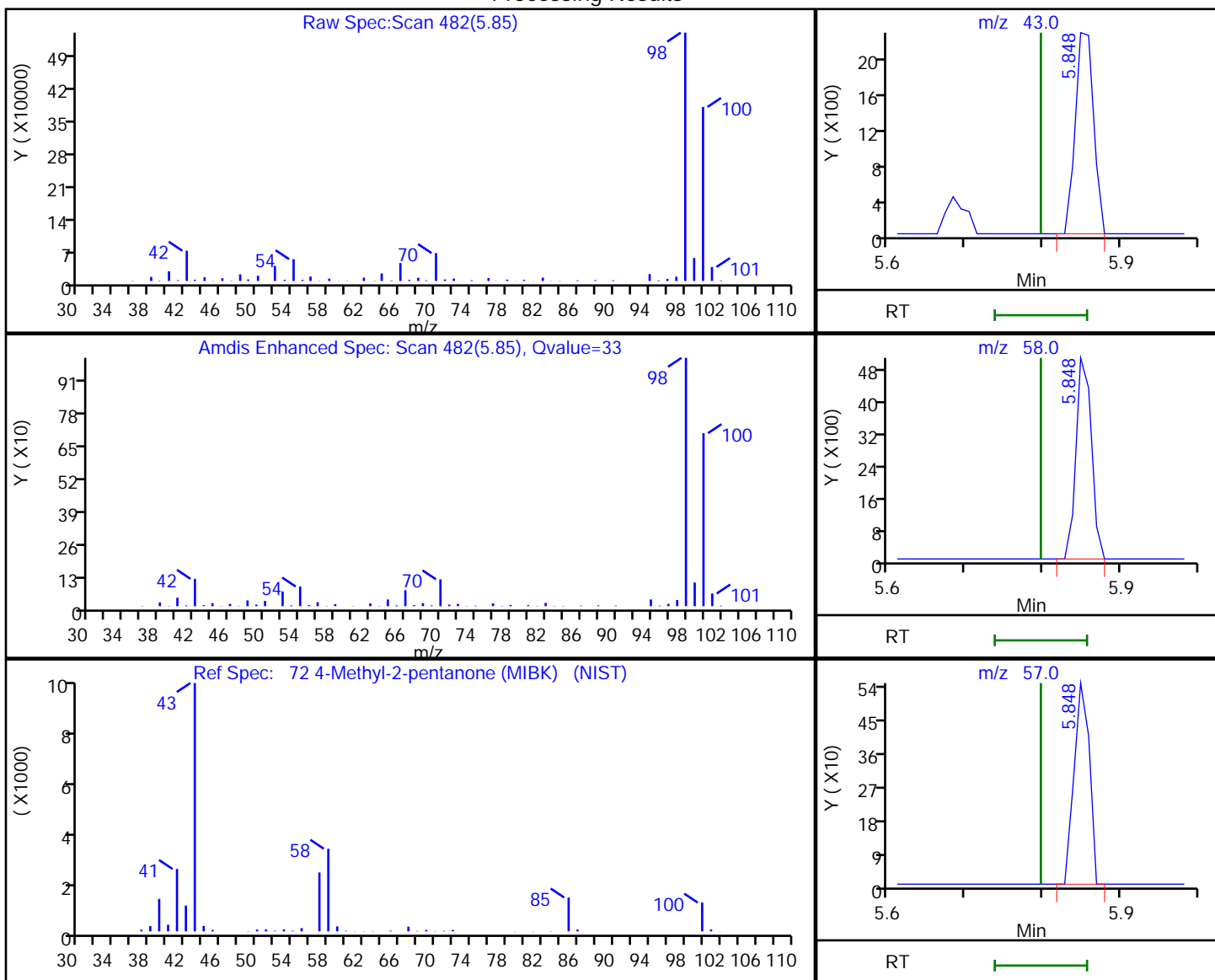


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3146.D  
 Injection Date: 18-Jul-2019 04:46:30 Instrument ID: HP5975T  
 Lims ID: 480-156213-D-17 Lab Sample ID: 480-156213-17  
 Client ID: 356023-MW1B  
 Operator ID: AEM ALS Bottle#: 24 Worklist Smp#: 25  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
5.85	43.00	3691	0.378561
5.85	58.00	7055	
5.85	57.00	752	

Reviewer: farrellr, 18-Jul-2019 13:41:46

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5R Lab Sample ID: 480-156213-18  
 Matrix: Water Lab File ID: T3147.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 11:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 05:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	110		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
75-34-3	1,1-Dichloroethane	6.7		2.0	0.76
75-35-4	1,1-Dichloroethene	24		2.0	0.58
87-61-6	1,2,3-Trichlorobenzene	ND		2.0	0.82
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
123-91-1	1,4-Dioxane	ND		80	19
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
74-97-5	Bromochloromethane	ND		2.0	1.7
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND	*	2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	ND		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
124-48-1	Dibromochloromethane	ND	*	2.0	0.64



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5R Lab Sample ID: 480-156213-18  
 Matrix: Water Lab File ID: T3147.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 11:10  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 05:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	1.2	J	2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	ND		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	7.6		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	104		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	95		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3147.D  
 Lims ID: 480-156213-D-18  
 Client ID: 356023-MW5R  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 05:09:30 ALS Bottle#: 25 Worklist Smp#: 26  
 Purge Vol: 5.000 mL Dil. Factor: 2.0000  
 Sample Info: 480-156213-D-18  
 Misc. Info.: 480-0082700-026  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:44:16 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr Date: 18-Jul-2019 13:44:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.678	4.688	-0.010	99	164880	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	741272	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	432045	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	94	237707	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.470	-0.010	0	272064	26.0	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	92	861569	23.7	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	317652	26.0	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.336	2.335	-0.010	98	92300	12.2	
23 Acetone	43		2.460				ND	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	91	9668	0.5892	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	96	48304	3.34	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83	4.087	4.076	-0.010	86	2095	0.1360	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	99	589767	52.7	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	Ua

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	94	34986	3.79	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

a - User Assigned ID

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3147.D

Injection Date: 18-Jul-2019 05:09:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-18

Lab Sample ID: 480-156213-18

Worklist Smp#: 26

Client ID: 356023-MW5R

Purge Vol: 5.000 mL

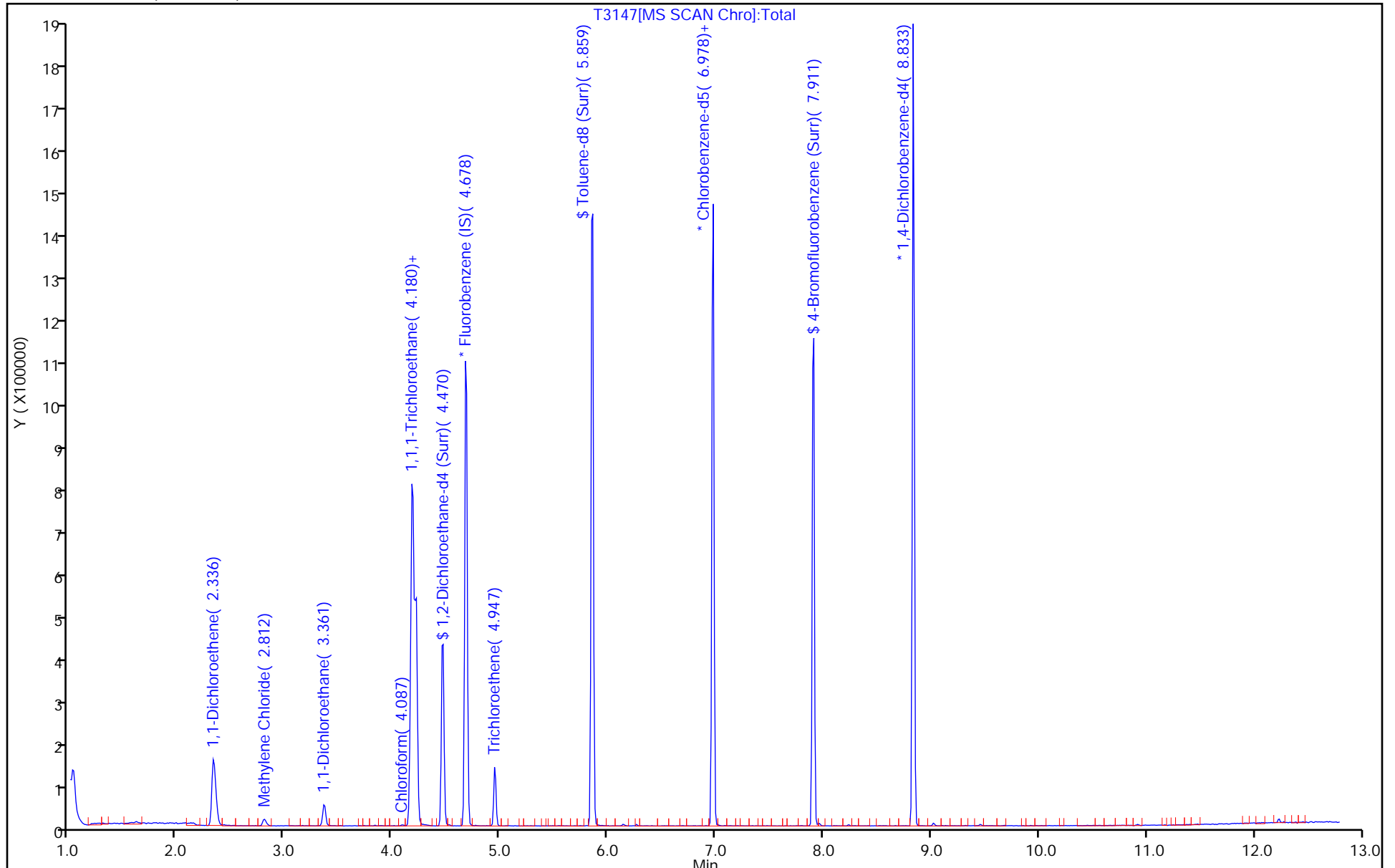
Dil. Factor: 2.0000

ALS Bottle#: 25

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3147.D

Injection Date: 18-Jul-2019 05:09:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-18

Lab Sample ID: 480-156213-18

Client ID: 356023-MW5R

Operator ID: AEM

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

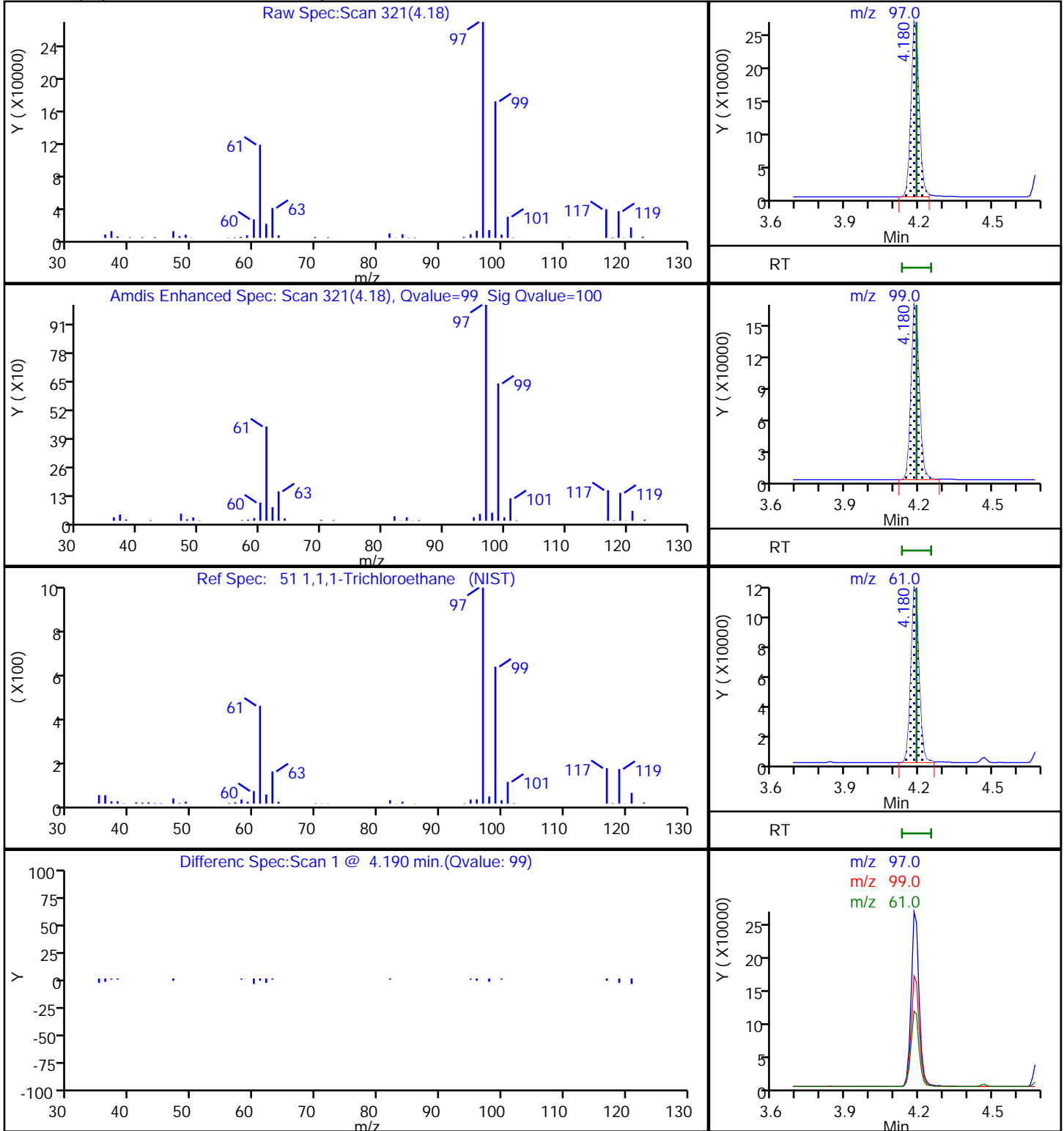
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3147.D

Injection Date: 18-Jul-2019 05:09:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-18

Lab Sample ID: 480-156213-18

Client ID: 356023-MW5R

Operator ID: AEM

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

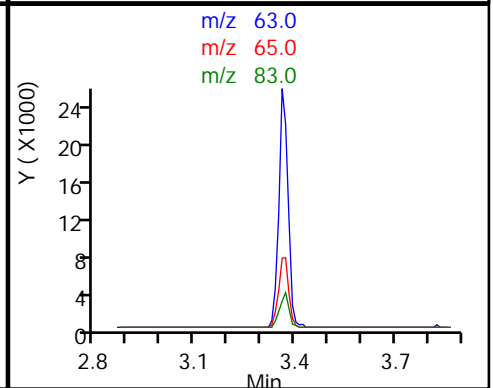
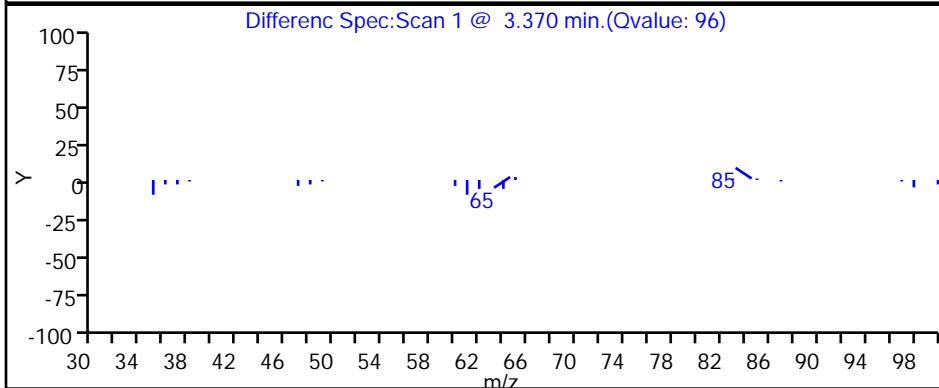
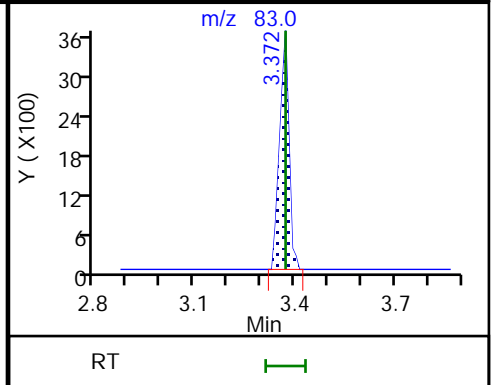
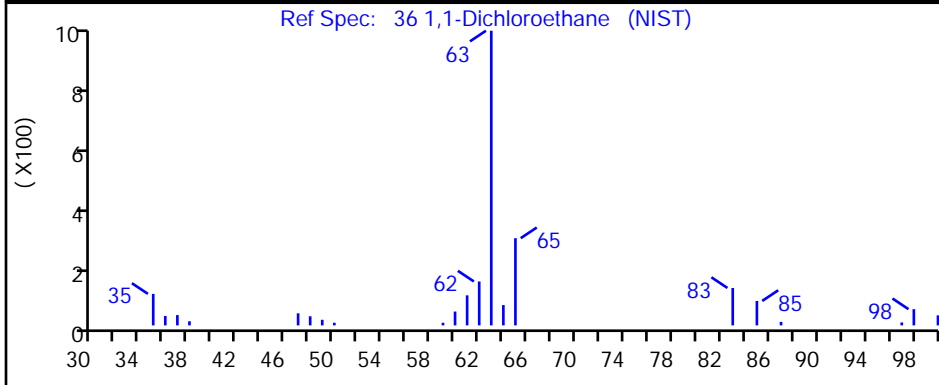
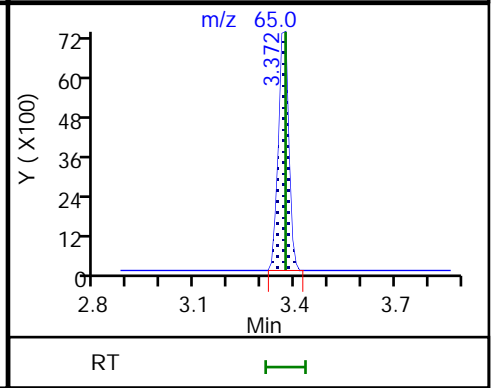
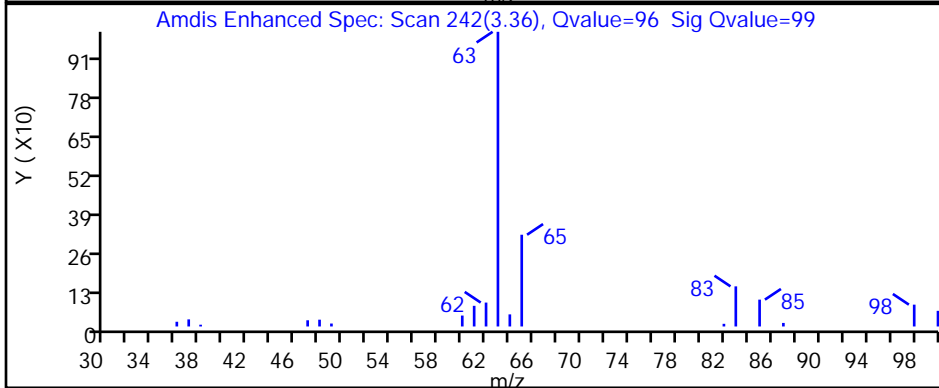
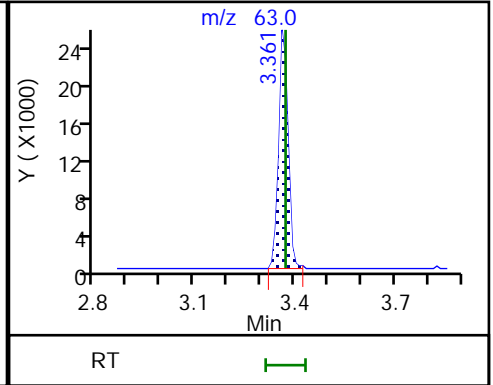
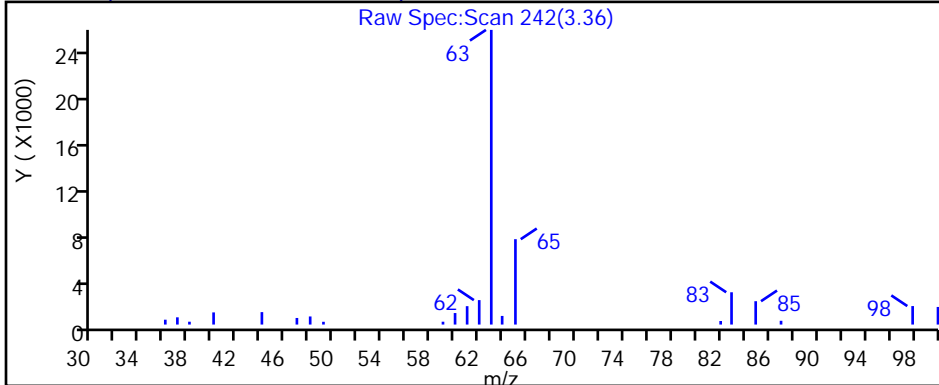
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3147.D

Injection Date: 18-Jul-2019 05:09:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-18

Lab Sample ID: 480-156213-18

Client ID: 356023-MW5R

Operator ID: AEM

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

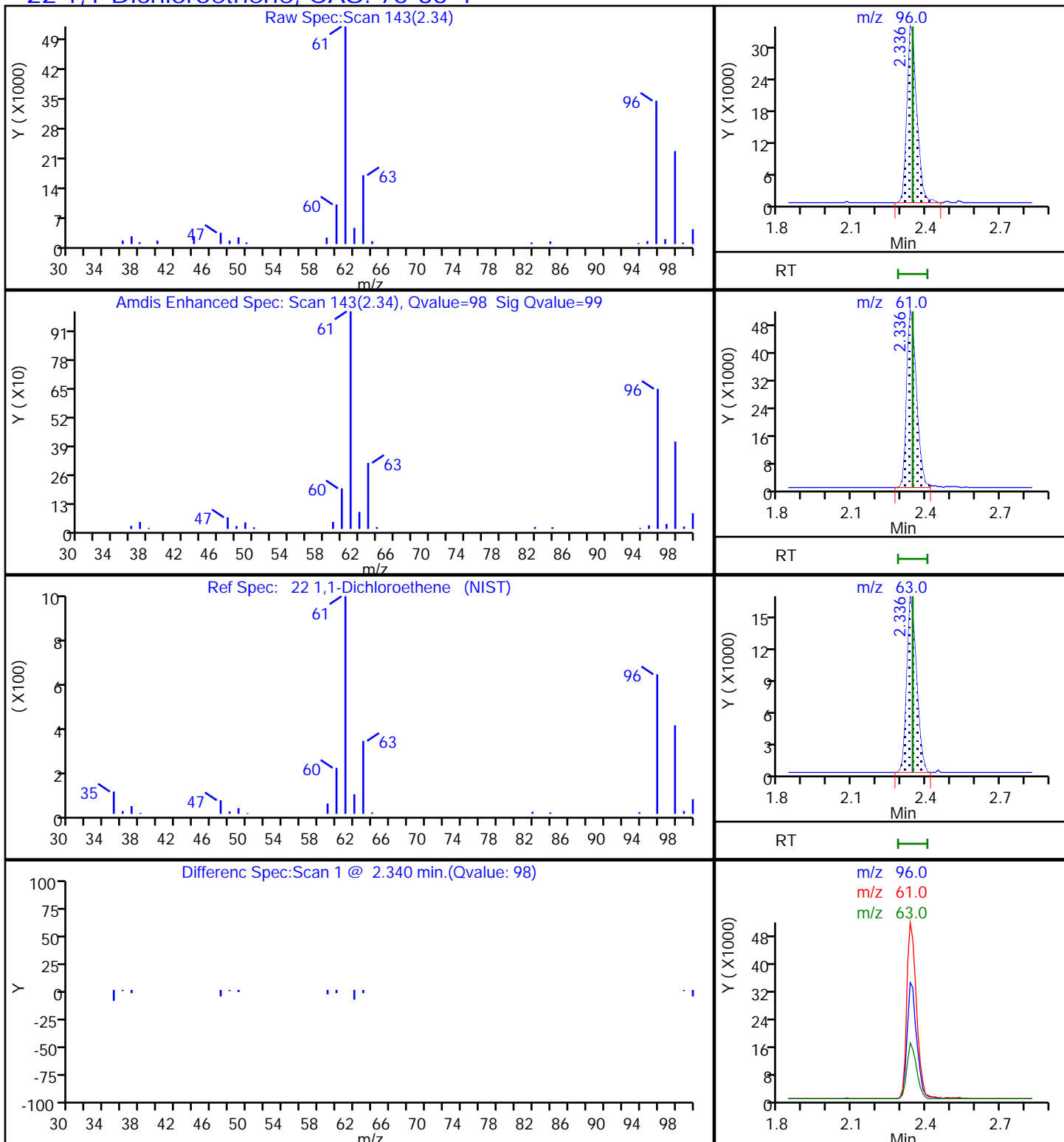
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3147.D

Injection Date: 18-Jul-2019 05:09:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-18

Lab Sample ID: 480-156213-18

Client ID: 356023-MW5R

Operator ID: AEM

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

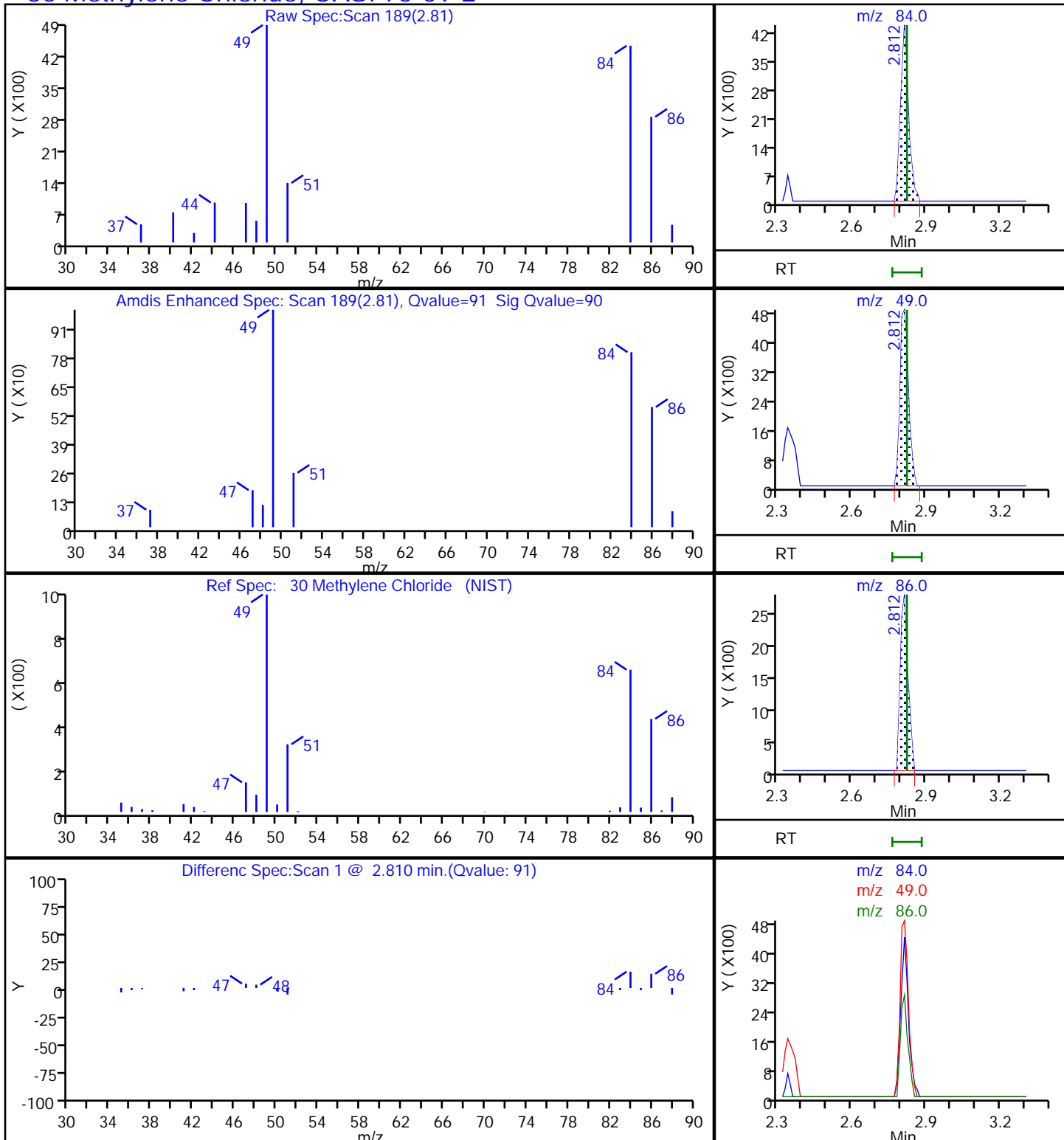
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 30 Methylene Chloride, CAS: 75-09-2





Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3147.D

Injection Date: 18-Jul-2019 05:09:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-18

Lab Sample ID: 480-156213-18

Client ID: 356023-MW5R

Operator ID: AEM

ALS Bottle#: 25

Worklist Smp#: 26

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

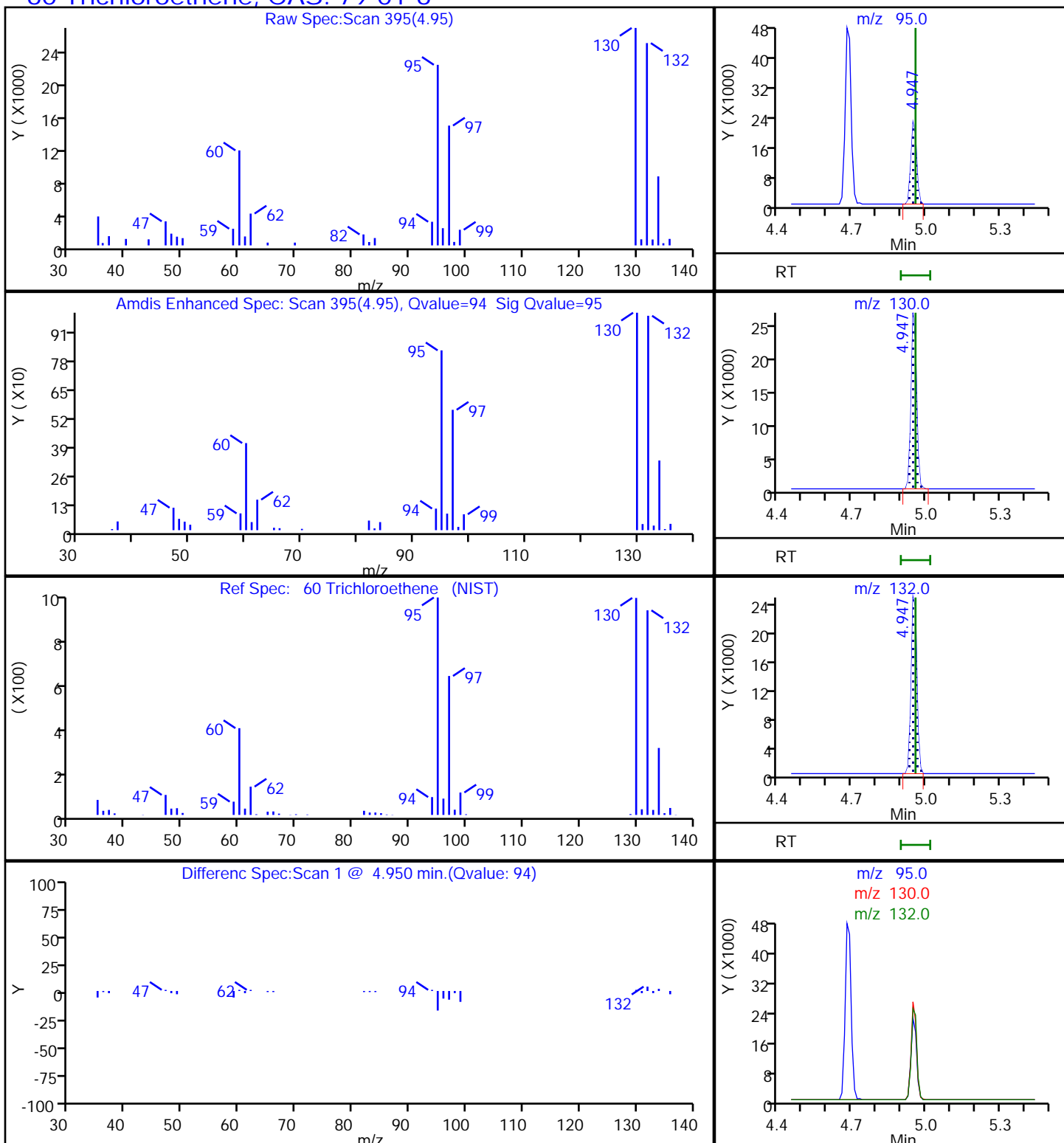
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

### 60 Trichloroethene, CAS: 79-01-6



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW7R Lab Sample ID: 480-156213-19  
 Matrix: Water Lab File ID: T3148.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 05:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	41		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	14		1.0	0.38
75-35-4	1,1-Dichloroethene	5.7		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW7R Lab Sample ID: 480-156213-19  
 Matrix: Water Lab File ID: T3148.D  
 Analysis Method: 8260C Date Collected: 07/12/2019 11:30  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 05:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	0.94	J	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3148.D  
 Lims ID: 480-156213-D-19  
 Client ID: 356023-MW7R  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 05:34:30 ALS Bottle#: 26 Worklist Smp#: 27  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-D-19  
 Misc. Info.: 480-0082700-027  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:44:16 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:45:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	166429	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	737594	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	428698	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	94	245267	26.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	275893	26.1	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	880204	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	323981	26.7	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96	2.335	2.335	-0.011	99	43310	5.67	
23 Acetone	43	2.449	2.460	-0.011	95	3776	1.47	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	92	6091	0.1795	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	96	210522	14.4	
43 cis-1,2-Dichloroethene	96	3.828	3.838	-0.010	79	6994	0.6935	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83	4.097	4.076	0.000	83	1993	0.1281	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	98	463232	41.0	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	91	8769	0.9400	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

**Reagents:**

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3148.D

Injection Date: 18-Jul-2019 05:34:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-D-19

Lab Sample ID: 480-156213-19

Worklist Smp#: 27

Client ID: 356023-MW7R

Purge Vol: 5.000 mL

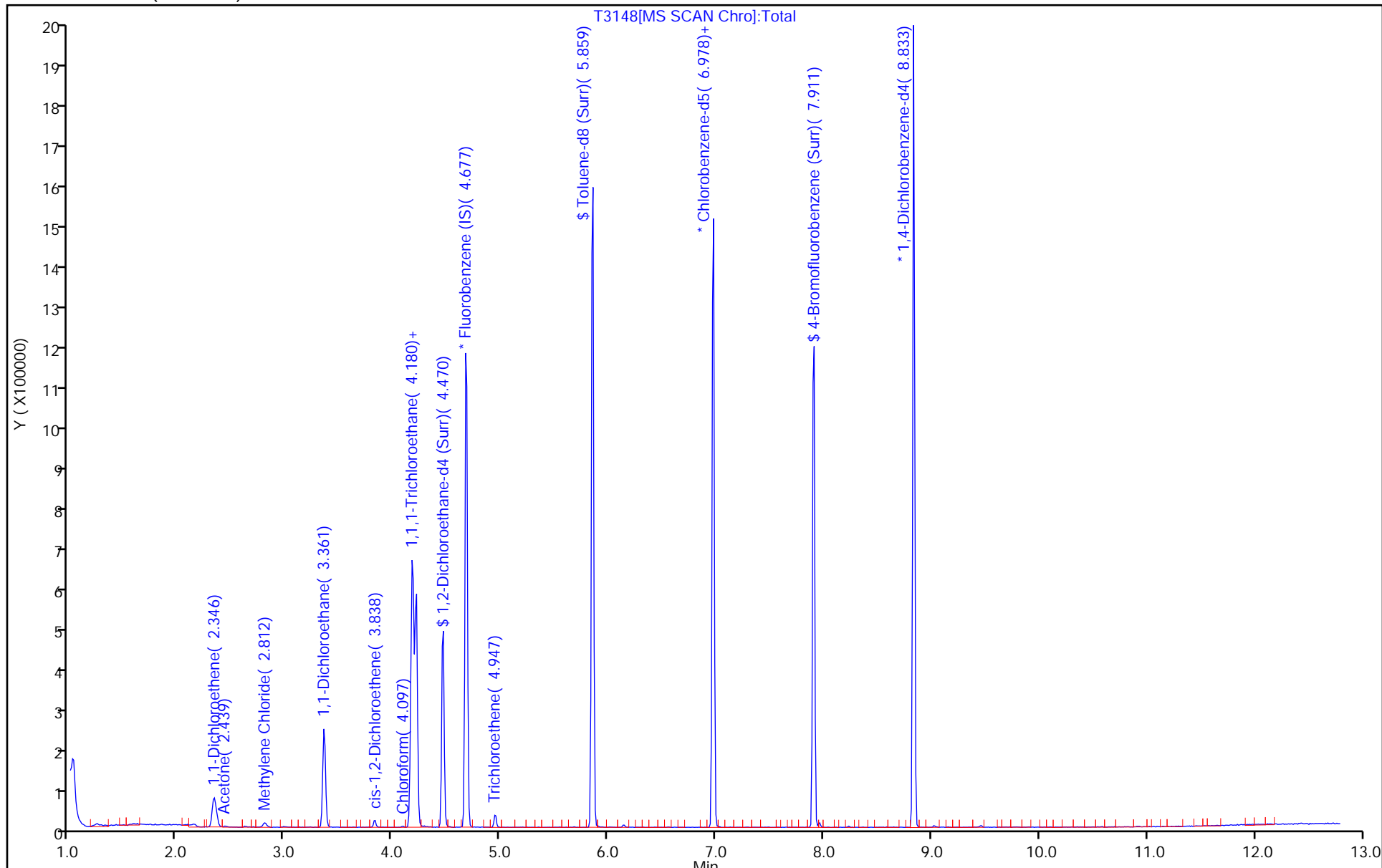
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3148.D

Injection Date: 18-Jul-2019 05:34:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-19

Lab Sample ID: 480-156213-19

Client ID: 356023-MW7R

Operator ID: AEM

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

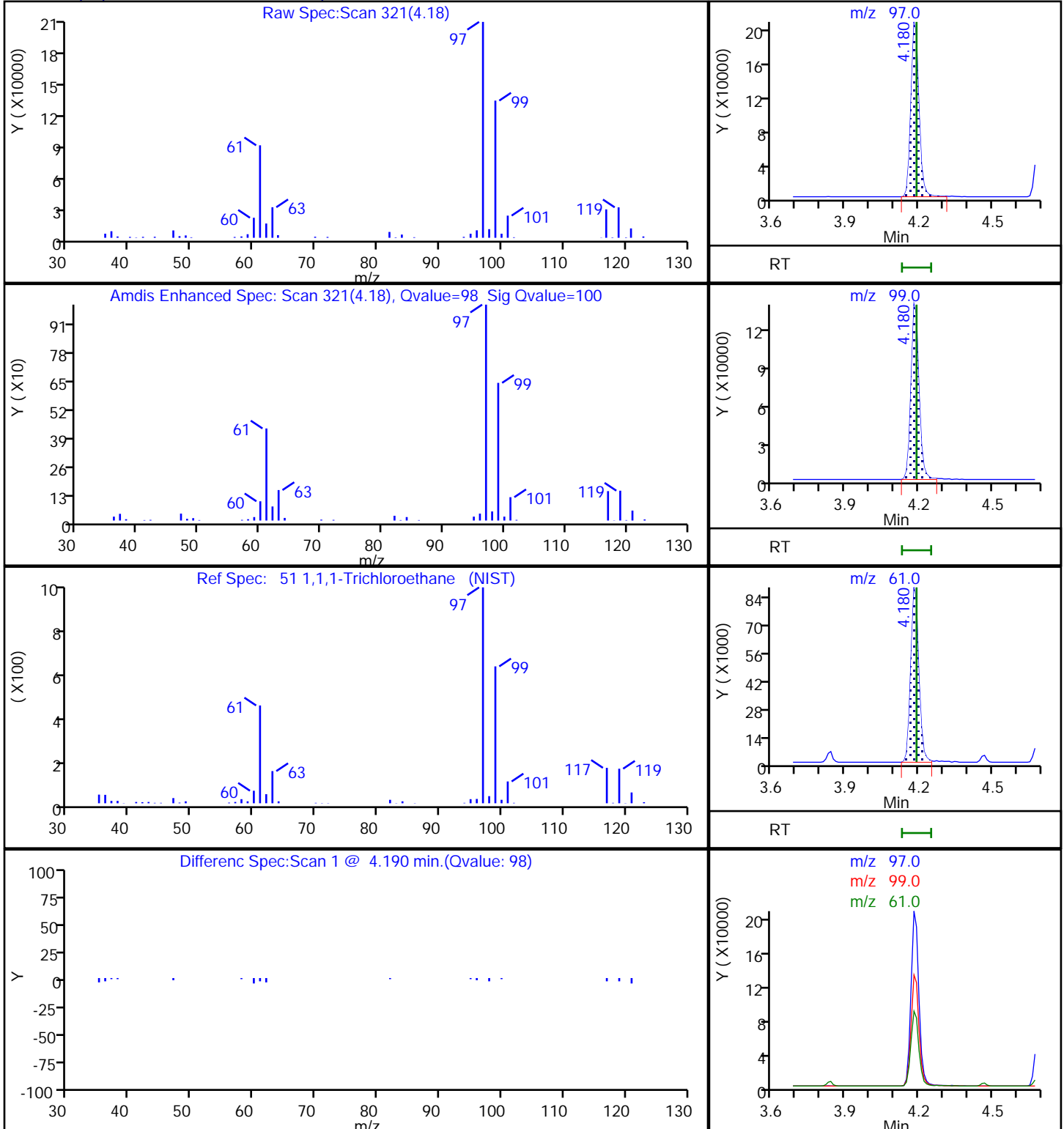
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3148.D

Injection Date: 18-Jul-2019 05:34:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-19

Lab Sample ID: 480-156213-19

Client ID: 356023-MW7R

Operator ID: AEM

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

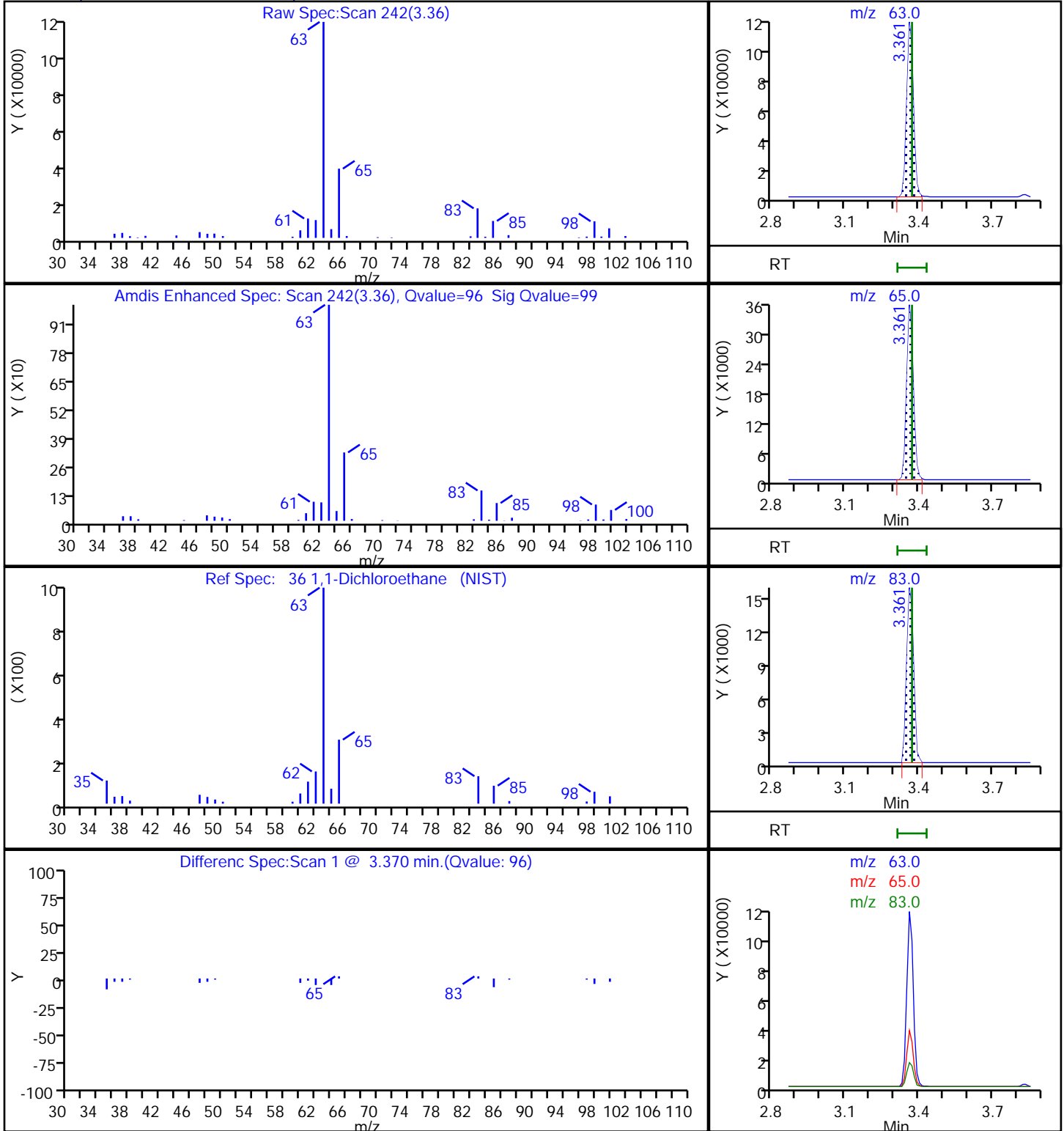
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3





Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3148.D

Injection Date: 18-Jul-2019 05:34:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-19

Lab Sample ID: 480-156213-19

Client ID: 356023-MW7R

Operator ID: AEM

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

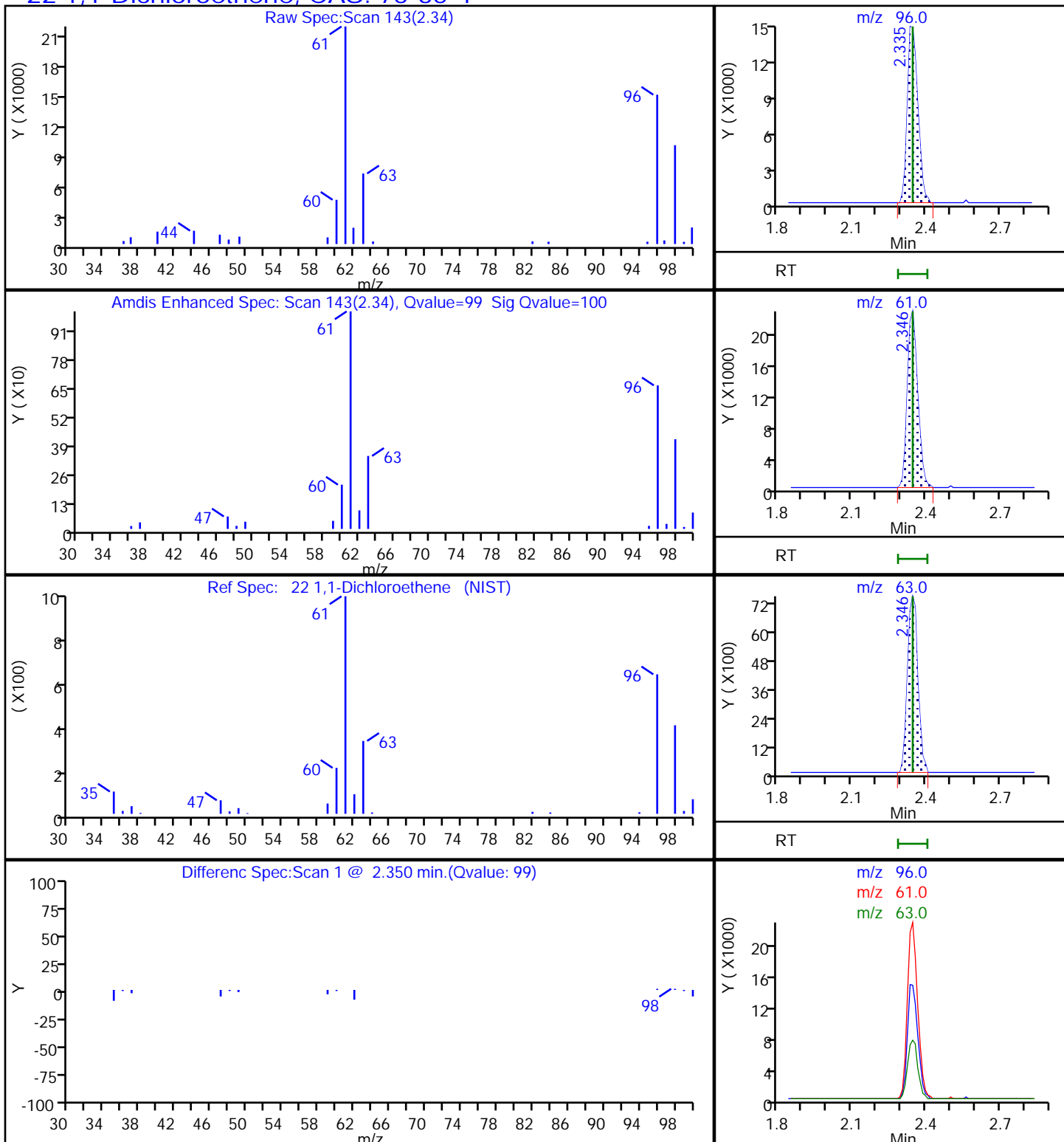
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3148.D

Injection Date: 18-Jul-2019 05:34:30

Instrument ID: HP5975T

Lims ID: 480-156213-D-19

Lab Sample ID: 480-156213-19

Client ID: 356023-MW7R

Operator ID: AEM

ALS Bottle#: 26

Worklist Smp#: 27

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

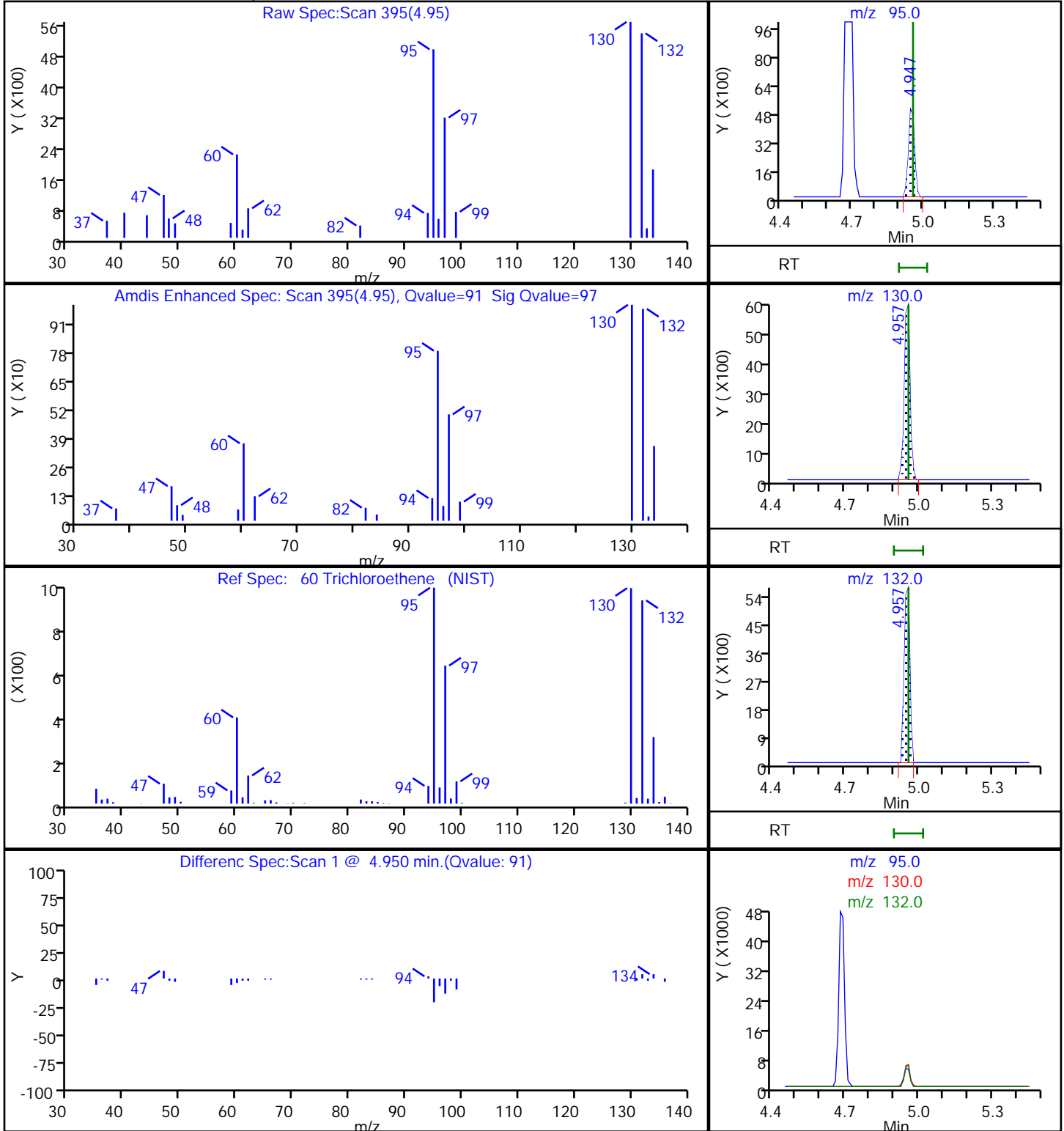
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

**60 Trichloroethene, CAS: 79-01-6**



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-TB1 Lab Sample ID: 480-156213-20  
 Matrix: Water Lab File ID: T3149.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 12:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 05:57  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	4.1	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*	1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND	*	1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-TB1 Lab Sample ID: 480-156213-20  
 Matrix: Water Lab File ID: T3149.D  
 Analysis Method: 8260C Date Collected: 07/09/2019 12:00  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 05:57  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3149.D  
 Lims ID: 480-156213-A-20  
 Client ID: 356023-TB1  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 05:57:30 ALS Bottle#: 27 Worklist Smp#: 28  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-A-20  
 Misc. Info.: 480-0082700-028  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:44:16 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:46:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.678	4.688	-0.010	99	168946	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	745831	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	435357	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.212	0.000	93	238540	25.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	272192	25.4	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	92	875394	23.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	321098	26.2	
11 Dichlorodifluoromethane	85		1.164				ND	
13 Chloromethane	50		1.320				ND	
14 Vinyl chloride	62		1.403				ND	
15 Bromomethane	94		1.641				ND	
16 Chloroethane	64		1.703				ND	
17 Trichlorofluoromethane	101		1.921				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346				ND	
22 1,1-Dichloroethene	96		2.346				ND	
23 Acetone	43	2.449	2.460	-0.011	99	10672	4.09	
25 Carbon disulfide	76		2.532				ND	
28 Methyl acetate	43		2.719				ND	
30 Methylene Chloride	84	2.812	2.823	-0.011	86	6569	0.2220	
33 Methyl tert-butyl ether	73		3.009				ND	
32 trans-1,2-Dichloroethene	96		3.009				ND	
36 1,1-Dichloroethane	63		3.372				ND	
43 cis-1,2-Dichloroethene	96		3.838				ND	
44 2-Butanone (MEK)	43		3.869				ND	
47 Chlorobromomethane	128		4.035				ND	
50 Chloroform	83		4.097				ND	
52 Cyclohexane	56		4.190				ND	
51 1,1,1-Trichloroethane	97		4.190				ND	
53 Carbon tetrachloride	117		4.304				ND	
55 Benzene	78		4.470				ND	
57 1,2-Dichloroethane	62		4.532				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
60 Trichloroethene	95		4.957				ND	
62 Methylcyclohexane	83		5.051				ND	
63 1,2-Dichloropropane	63		5.144				ND	
66 1,4-Dioxane	88		5.258				ND	
67 Dichlorobromomethane	83		5.372				ND	
71 cis-1,3-Dichloropropene	75		5.693				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797				ND	
73 Toluene	92		5.911				ND	
75 trans-1,3-Dichloropropene	75		6.118				ND	
78 1,1,2-Trichloroethane	83		6.263				ND	
79 Tetrachloroethene	166		6.305				ND	
81 2-Hexanone	43		6.429				ND	
82 Chlorodibromomethane	129		6.564				ND	
83 Ethylene Dibromide	107		6.647				ND	
86 Chlorobenzene	112		6.999				ND	
88 Ethylbenzene	91		7.061				ND	
90 m-Xylene & p-Xylene	106		7.154				ND	
91 o-Xylene	106		7.465				ND	
92 Styrene	104		7.496				ND	
93 Bromoform	173		7.683				ND	
95 Isopropylbenzene	105		7.755				ND	
98 1,1,2,2-Tetrachloroethane	83		8.066				ND	
110 1,3-Dichlorobenzene	146		8.781				ND	
113 1,4-Dichlorobenzene	146		8.854				ND	
116 1,2-Dichlorobenzene	146		9.165				ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838				ND	
119 1,2,4-Trichlorobenzene	180		10.481				ND	
122 1,2,3-Trichlorobenzene	180		10.885				ND	
S 126 Xylenes, Total	1		30.000				ND	

**Reagents:**

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3149.D

Injection Date: 18-Jul-2019 05:57:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: 480-156213-A-20

Lab Sample ID: 480-156213-20

Worklist Smp#: 28

Client ID: 356023-TB1

Purge Vol: 5.000 mL

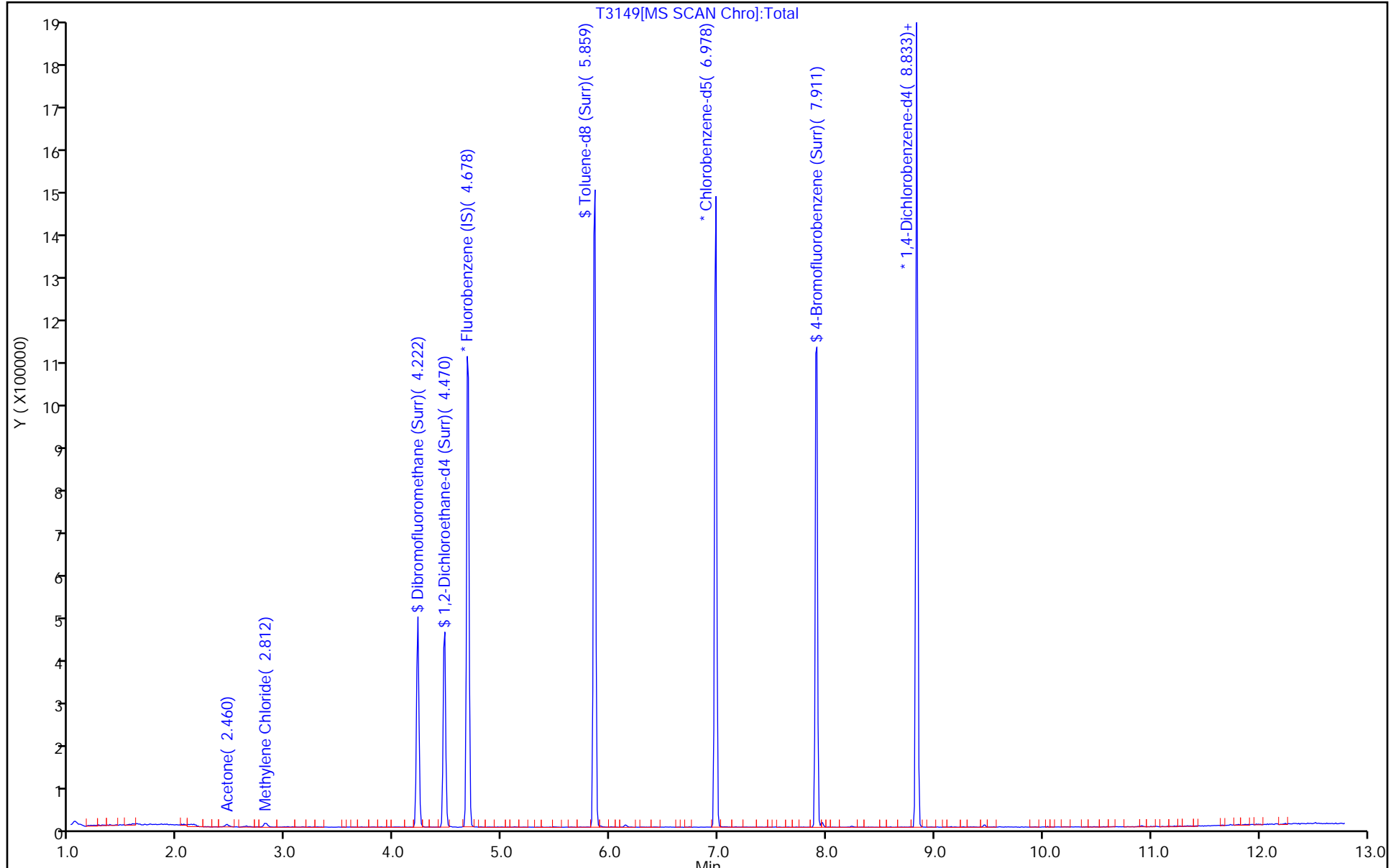
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3149.D

Injection Date: 18-Jul-2019 05:57:30

Instrument ID: HP5975T

Lims ID: 480-156213-A-20

Lab Sample ID: 480-156213-20

Client ID: 356023-TB1

Operator ID: AEM

ALS Bottle#: 27

Worklist Smp#: 28

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

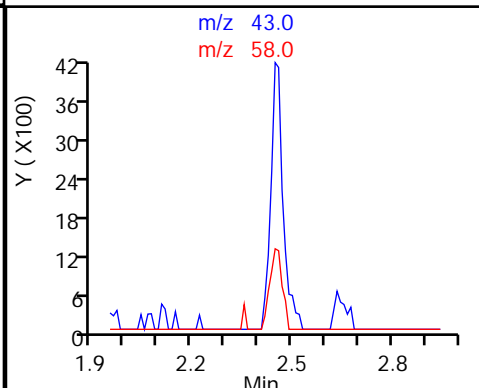
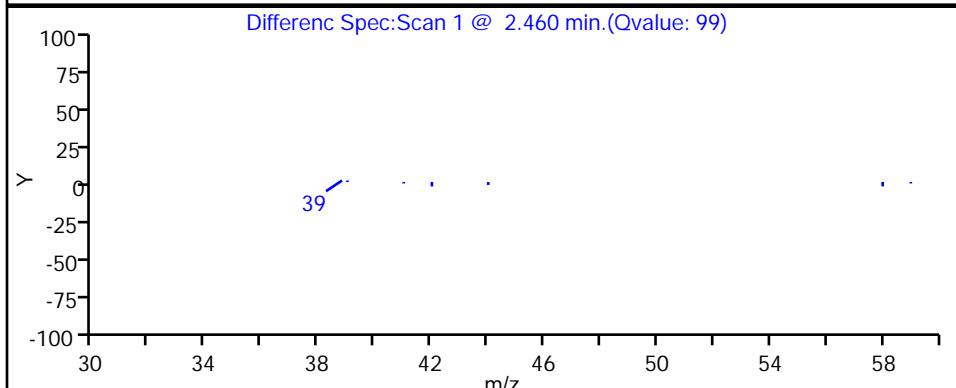
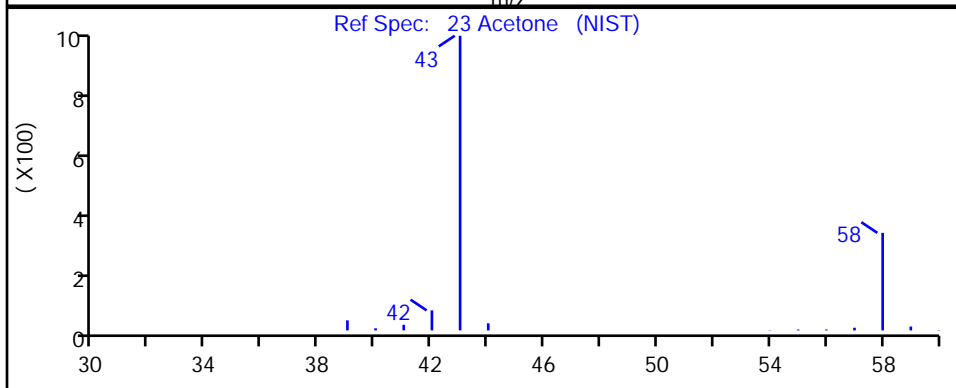
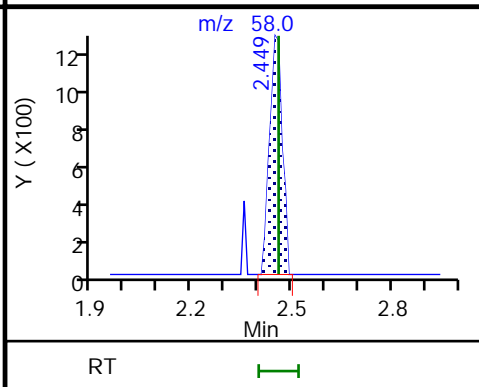
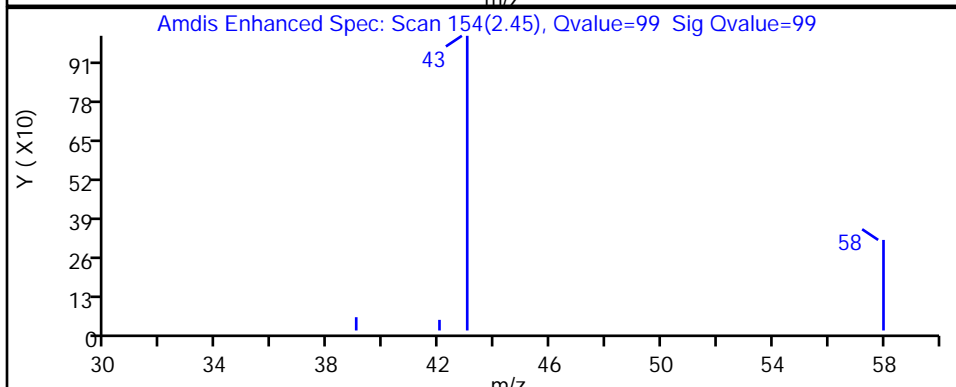
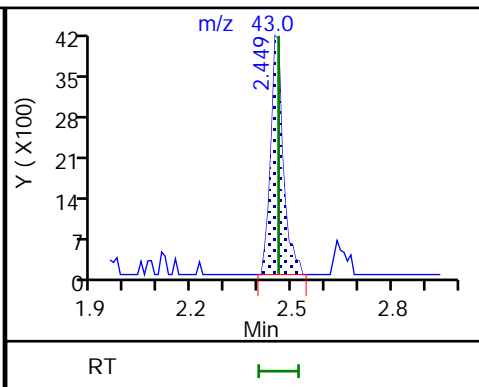
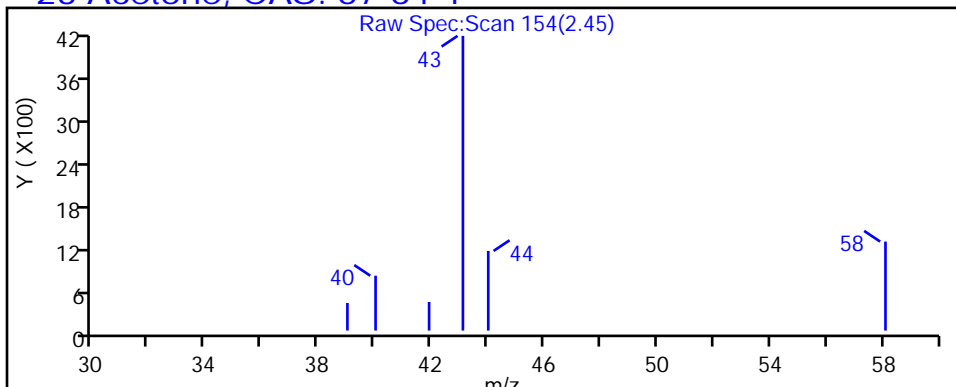
Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1





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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 481153

SDG No.: \_\_\_\_\_

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2019 14:46 Calibration End Date: 07/08/2019 17:35 Calibration ID: 37204

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-481153/5	T2787.D
Level 2	IC 480-481153/6	T2788.D
Level 3	IC 480-481153/7	T2789.D
Level 4	IC 480-481153/8	T2790.D
Level 5	IC 480-481153/9	T2791.D
Level 6	ICIS 480-481153/10	T2792.D
Level 7	IC 480-481153/11	T2793.D
Level 8	IC 480-481153/12	T2794.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Dichlorodifluoromethane	1.8081 1.4161	1.8177 1.8169	1.7068 1.7789	1.4354	1.5683	Ave		1.6685			0.1000	10.3	20.0				
Chloromethane	++++ 1.4276	1.8061 1.5573	1.6744 1.5356	1.3331	1.4667	Ave		1.5430			0.1000	10.2	20.0				
Butadiene	1.4507 1.1451	1.4211 1.4560	1.4767 1.4130	1.2236	1.2683	Ave		1.3568				9.3	20.0				
Vinyl chloride	1.6626 1.4067	1.8047 1.6722	1.7008 1.6155	1.3680	1.4358	Ave		1.5833			0.1000	10.1	20.0				
Bromomethane	++++ 1.2910	1.2788 1.3521	1.4331 1.3329	1.2948	1.2169	Ave		1.3142			0.1000	5.2	20.0				
Chloroethane	++++ 0.9717	0.9234 1.1202	1.1196 1.0878	1.1565	1.0292	Ave		1.0583			0.1000	8.2	20.0				
Dichlorofluoromethane	++++ 2.4388	2.9461 2.6256	2.8028 2.4257	2.5882	2.5539	Ave		2.6259				7.2	20.0				
Trichlorofluoromethane	++++ 2.3194	2.9716 2.8457	2.8909 2.6299	2.4336	2.5841	Ave		2.6679			0.1000	9.2	20.0				
Ethyl ether	++++ 1.1683	1.5264 1.1091	1.3694 1.1369	1.1733	1.1636	Ave		1.2353				12.4	20.0				
Acrolein	++++ 0.2138	0.2675 0.1962	0.2553 0.2093	0.2035	0.1908	Ave		0.2195				13.6	20.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.9696 0.9794	1.5854 1.1751	1.4003 1.3499	1.2328	1.0616	Ave		1.2193			0.1000	17.8	20.0				
1,1-Dichloroethene	1.2894 0.9918	1.3819 1.0669	1.2200 1.1917	1.0481	0.9828	Ave		1.1466			0.1000	12.8	20.0				
Acetone	++++ 0.3967	0.3971 0.3659	0.4225 0.3950	0.3534	0.3735	Ave		0.3863			0.1000	6.0	20.0				
Iodomethane	2.8747 2.2764	2.7691 2.3420	2.6941 2.5610	2.3372	2.2348	Ave		2.5112				9.8	20.0				

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 481153  
 SDG No.: \_\_\_\_\_  
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 07/08/2019 14:46 Calibration End Date: 07/08/2019 17:35 Calibration ID: 37204

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Carbon disulfide	++++ 3.3205	4.4339 3.6792	4.1395 4.1061	3.5523	3.2779	Ave		3.7871			0.1000	11.8	20.0				
Allyl chloride	++++ 1.4753	1.8548 1.5185	1.6809 1.6865	1.4460	1.3697	Ave		1.5760				10.8	20.0				
Methyl acetate	++++ 0.9871	1.2417 0.9553	1.1388 1.0167	0.9311	0.9631	Ave		1.0334			0.1000	11.1	20.0				
Methylene Chloride	2.9495 1.3486	2.2472 1.3005	1.7273 1.3964	1.4218	1.3109	Lin1	0.6736	1.3448			0.1000			0.9980		0.9900	
2-Methyl-2-propanol	0.1424 0.1749	0.1666 0.1807	0.1680 0.2130	0.1428	0.1477	Ave		0.1670				14.2	20.0				
Methyl tert-butyl ether	4.3440 3.8026	4.2790 3.6492	3.9946 3.8592	3.5362	3.5972	Ave		3.8827			0.1000	7.8	20.0				
trans-1,2-Dichloroethene	++++ 1.2331	1.5960 1.3095	1.4091 1.4089	1.2606	1.2055	Ave		1.3461			0.1000	10.1	20.0				
Acrylonitrile	0.6186 0.5541	0.6028 0.5319	0.5846 0.5609	0.5110	0.5370	Ave		0.5626				6.6	20.0				
Hexane	2.0568 1.5032	2.2411 1.6905	2.0961 1.8973	1.8045	1.5289	Ave		1.8523				14.6	20.0				
1,1-Dichloroethane	++++ 2.0616	2.3299 2.1506	2.4481 2.2865	2.0490	2.0032	Ave		2.1899			0.2000	7.6	20.0				
Vinyl acetate	2.1429 2.1350	1.9857 2.2530	2.0158 2.5222	1.6997	1.8901	Ave		2.0806				11.9	20.0				
2,2-Dichloropropane	++++ 1.5742	2.1018 1.7225	1.8559 1.9067	1.6710	1.5309	Ave		1.7662				11.4	20.0				
cis-1,2-Dichloroethene	1.6213 1.4224	1.7381 1.4698	1.5688 1.5726	1.3679	1.3578	Ave		1.5149			0.1000	8.8	20.0				
2-Butanone (MEK)	0.6870 0.6415	0.6950 0.6235	0.6858 0.6625	0.5843	0.6117	Ave		0.6489			0.1000	6.2	20.0				
Bromochloromethane	0.8968 0.8269	0.8847 0.8108	0.9117 0.8670	0.7698	0.7431	Ave		0.8388				7.3	20.0				
Tetrahydrofuran	0.6067 0.4730	0.5119 0.4300	0.5067 0.4606	0.4144	0.4590	Ave		0.4828				12.5	20.0				
Chloroform	++++ 2.1854	2.7281 2.2012	2.6025 2.3653	2.1564	2.1161	Ave		2.3364			0.2000	10.3	20.0				
1,1,1-Trichloroethane	1.5267 1.5794	1.7802 1.7958	1.7759 2.0818	1.5517	1.4952	Ave		1.6983			0.1000	11.7	20.0				
Cyclohexane	2.0471 1.7037	2.3541 2.0500	2.2737 2.2836	1.9568	1.8103	Ave		2.0599			0.1000	11.3	20.0				
Carbon tetrachloride	1.2166 1.1198	1.4716 1.3851	1.3577 1.7277	1.0610	1.0261	Ave		1.2957			0.1000	18.3	20.0				

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 481153  
 SDG No.: \_\_\_\_\_  
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 07/08/2019 14:46 Calibration End Date: 07/08/2019 17:35 Calibration ID: 37204

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,1-Dichloropropene	1.7281 1.5002	1.8824 1.6503	1.9210 1.8151	1.5489	1.4874	Ave		1.6917			10.1		20.0				
Benzene	5.9912 4.7881	5.7369 4.9285	5.7379 5.2431	4.8219	4.6425	Ave		5.2363		0.5000	9.9		20.0				
Isobutyl alcohol	0.0473 0.0513	0.0393 0.0559	0.0402 ++++	0.0365	0.0413	Ave		0.0446			16.0		20.0				
1,2-Dichloroethane	++++ 1.8053	2.0133 1.7786	2.1023 1.8449	1.7000	1.7087	Ave		1.8505		0.1000	8.3		20.0				
n-Heptane	1.8392 1.5421	2.2961 1.7449	2.0950 1.9514	1.8833	1.5171	Ave		1.8586			14.2		20.0				
Trichloroethene	1.6690 1.2661	1.5456 1.3285	1.5002 1.4366	1.2397	1.2251	Ave		1.4014		0.2000	11.6		20.0				
Methylcyclohexane	2.0871 1.8692	2.5866 2.1574	2.5282 2.4752	2.1925	1.9259	Ave		2.2278		0.1000	12.3		20.0				
1,2-Dichloropropane	1.3278 1.2217	1.3427 1.2432	1.3987 1.3146	1.1456	1.1912	Ave		1.2732		0.1000	6.8		20.0				
Dibromomethane	0.8972 0.8839	0.9000 0.8711	0.8673 0.9453	0.8298	0.8162	Ave		0.8764		0.1000	4.7		20.0				
1,4-Dioxane	++++ 0.0057	0.0043 0.0053	0.0060 0.0056	0.0049	0.0055	Ave		0.0053			10.8		20.0				
Bromodichloromethane	1.3092 1.2655	1.2086 1.3834	1.1947 1.6142	1.1102	1.1059	Ave		1.2740		0.2000	13.1		20.0				
2-Chloroethyl vinyl ether	0.9311 0.9511	1.0012 0.9467	1.0089 0.9994	0.8589	0.9222	Ave		0.9524			5.3		20.0				
cis-1,3-Dichloropropene	1.8684 1.9565	1.9135 1.9891	1.8224 2.1945	1.6794	1.7536	Ave		1.8972		0.2000	8.3		20.0				
4-Methyl-2-pentanone (MIBK)	0.3250 0.3460	0.3293 0.3291	0.3381 0.3343	0.2943	0.3328	Ave		0.3286		0.1000	4.6		20.0				
Toluene	0.9183 0.7469	0.9361 0.7609	0.8637 0.7947	0.7408	0.7123	Ave		0.8092		0.4000	10.6		20.0				
trans-1,3-Dichloropropene	0.3838 0.4137	0.4127 0.4299	0.3853 0.4663	0.3521	0.3807	Ave		0.4031		0.1000	8.8		20.0				
Ethyl methacrylate	0.3711 0.3955	0.3349 0.4009	0.3744 0.4281	0.3067	0.3506	Ave		0.3703			10.5		20.0				
1,1,2-Trichloroethane	0.2592 0.2376	0.2650 0.2354	0.2592 0.2411	0.2202	0.2295	Ave		0.2434		0.1000	6.6		20.0				
Tetrachloroethene	0.3671 0.3233	0.3733 0.3501	0.3850 0.3823	0.3253	0.3246	Ave		0.3539		0.2000	7.5		20.0				
1,3-Dichloropropane	0.5525 0.4923	0.5278 0.4756	0.5637 0.4898	0.4409	0.4761	Ave		0.5024			8.4		20.0				

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 481153

SDG No.: \_\_\_\_\_

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2019 14:46 Calibration End Date: 07/08/2019 17:35 Calibration ID: 37204

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
2-Hexanone	0.2220 0.2426	0.2120 0.2322	0.2296 0.2375	0.2044	0.2289	Ave		0.2261			0.1000	5.7	20.0				
Dibromochloromethane	0.1990 0.2109	0.1963 0.2381	0.1887 ++++	0.1590	0.1768	Ave		0.1955			0.1000	12.9	20.0				
1,2-Dibromoethane	++++ 0.3133	0.2919 0.3099	0.3050 0.3304	0.2699	0.2874	Ave		0.3011				6.6	20.0				
Chlorobenzene	1.0510 0.8797	1.0142 0.8743	0.2187 0.9074	0.8266	0.8692	Ave		0.9270			0.5000	8.8	20.0				
Ethylbenzene	1.5931 1.4125	1.6513 1.4297	1.6307 1.4946	1.3890	1.3614	Ave		1.4953			0.1000	7.7	20.0				
1,1,1,2-Tetrachloroethane	0.1874 0.2476	0.2345 0.2760	0.2190 0.3166	0.1873	0.2040	Ave		0.2341				19.3	20.0				
m,p-Xylene	0.6729 0.5754	0.6047 0.5856	0.6729 0.6208	0.5465	0.5449	Ave		0.6030			0.1000	8.3	20.0				
o-Xylene	0.7057 0.5692	0.6255 0.5785	0.6489 0.6179	0.5340	0.5582	Ave		0.6047			0.3000	9.2	20.0				
Styrene	1.0986 0.9863	1.0520 1.0057	1.0662 1.0470	0.9424	0.9505	Ave		1.0186			0.3000	5.5	20.0				
Bromoform	0.1031 0.1249	0.1085 0.1424	0.1090 ++++	0.0932	0.0983	Ave		0.1113			0.1000	15.2	20.0				
Isopropylbenzene	2.8501 2.5816	3.0471 2.5472	2.9108 2.6762	2.5414	2.4496	Ave		2.7005			0.1000	7.8	20.0				
Bromobenzene	0.8870 0.7464	0.7623 0.7118	0.7920 0.7483	0.6553	0.6810	Ave		0.7480				9.6	20.0				
1,1,2,2-Tetrachloroethane	0.7362 0.7408	0.7043 0.6821	0.6994 0.7159	0.6279	0.6552	Ave		0.6952			0.3000	5.6	20.0				
N-Propylbenzene	3.4164 3.0006	3.6446 2.9447	3.3228 3.0630	2.8468	2.8523	Ave		3.1364				9.3	20.0				
1,2,3-Trichloropropane	0.2208 0.2629	0.2263 0.2421	0.2596 0.2461	0.2359	0.2396	Ave		0.2417				6.1	20.0				
trans-1,4-Dichloro-2-butene	0.1851 0.2151	0.2100 0.2019	0.2061 0.2181	0.1869	0.2027	Ave		0.2032				5.9	20.0				
2-Chlorotoluene	0.7480 0.6695	0.7833 0.6454	0.6930 0.6659	0.6240	0.6400	Ave		0.6837				8.1	20.0				
1,3,5-Trimethylbenzene	2.3771 2.2512	2.6126 2.2033	2.4316 2.2677	2.0613	2.1466	Ave		2.2939				7.6	20.0				
4-Chlorotoluene	2.2974 2.1519	2.4551 2.0571	2.3082 2.1433	2.0499	2.0129	Ave		2.1845				7.1	20.0				
tert-Butylbenzene	0.6253 0.5146	0.5967 0.5183	0.5555 0.5565	0.4877	0.4944	Ave		0.5436				9.0	20.0				

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 481153  
 SDG No.: \_\_\_\_\_  
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 07/08/2019 14:46 Calibration End Date: 07/08/2019 17:35 Calibration ID: 37204

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,2,4-Trimethylbenzene	2.7556 2.3401	2.6251 2.2596	2.4413 2.3394	2.1890	2.1616	Ave		2.3890			8.8		20.0				
sec-Butylbenzene	3.0500 2.8083	3.3379 2.8042	3.1531 2.9944	2.7575	2.6420	Ave		2.9434			7.9		20.0				
4-Isopropyltoluene	2.5854 2.5561	2.7789 2.5339	2.7667 2.6637	2.4643	2.3826	Ave		2.5915			5.4		20.0				
1,3-Dichlorobenzene	1.6213 1.4526	1.5655 1.3904	1.5047 1.4501	1.3472	1.3394	Ave		1.4589		0.6000	6.9		20.0				
1,4-Dichlorobenzene	1.6519 1.4778	1.6171 1.3956	1.5580 1.4611	1.3349	1.4141	Ave		1.4888		0.5000	7.5		20.0				
n-Butylbenzene	2.1706 2.2475	2.5242 2.1936	2.4408 2.3250	2.1567	2.0622	Ave		2.2651			6.9		20.0				
1,2-Dichlorobenzene	1.4574 1.4664	1.6056 1.3870	1.4940 1.4522	1.3474	1.3562	Ave		1.4458		0.4000	5.8		20.0				
1,2-Dibromo-3-Chloropropane	++++ 0.1007	0.0722 0.1008	0.0764 ++++	0.0690	0.0803	Ave		0.0833		0.0500	17.0		20.0				
1,2,4-Trichlorobenzene	1.2100 1.0832	1.0938 0.9959	1.0438 1.0672	0.9766	0.9837	Ave		1.0568		0.2000	7.3		20.0				
Hexachlorobutadiene	0.4874 0.4318	0.5464 0.4312	0.4350 0.4778	0.4027	0.3713	Ave		0.4480			12.2		20.0				
Naphthalene	3.0914 3.1210	3.2788 2.8469	3.0739 2.9095	2.6789	2.8947	Ave		2.9869			6.3		20.0				
1,2,3-Trichlorobenzene	1.1596 1.0679	1.1690 0.9885	1.0890 1.0527	0.9670	0.9832	Ave		1.0596			7.3		20.0				
Dibromofluoromethane (Surr)	1.3931 1.3694	1.3436 1.3862	1.3460 1.4657	1.3815	1.3693	Ave		1.3818			2.8		20.0				
1,2-Dichloroethane-d4 (Surr)	1.6223 1.5838	1.5602 1.5538	1.6133 1.5591	1.6083	1.6009	Ave		1.5877			1.7		20.0				
Toluene-d8 (Surr)	1.2257 1.2216	1.2276 1.2198	1.2421 1.2109	1.2354	1.2236	Ave		1.2259			0.8		20.0				
4-Bromofluorobenzene (Surr)	0.3952 0.4105	0.4030 0.4223	0.4144 0.4364	0.4022	0.4061	Ave		0.4113			3.2		20.0				

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 481153

SDG No.: \_\_\_\_\_

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2019 14:46 Calibration End Date: 07/08/2019 17:35 Calibration ID: 37204

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-481153/5	T2787.D
Level 2	IC 480-481153/6	T2788.D
Level 3	IC 480-481153/7	T2789.D
Level 4	IC 480-481153/8	T2790.D
Level 5	IC 480-481153/9	T2791.D
Level 6	ICIS 480-481153/10	T2792.D
Level 7	IC 480-481153/11	T2793.D
Level 8	IC 480-481153/12	T2794.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4472 236609	11650 612339	22034 1197542	45292	104169	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	++++ 238540	11576 524869	21616 1033721	42064	97420	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	3588 191339	9108 490724	19063 951227	38610	84239	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	4112 235036	11567 563575	21956 1087503	43167	95365	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	++++ 215717	8196 455687	18500 897279	40856	80826	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 162356	5918 377532	14454 732302	36491	68361	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	++++ 407494	18882 884894	36183 1632941	81667	169635	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	++++ 387536	19046 959075	37320 1770401	76788	171641	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	++++ 195214	9783 373781	17678 765358	37021	77290	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	++++ 178645	8573 330600	16482 704326	32112	63357	++++ 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2398 163652	10161 396057	18077 908698	38901	70515	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	3189 165725	8857 359580	15749 802235	33073	65277	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	++++ 331440	12724 616658	27274 1329552	55750	124037	++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	7110 380358	17748 789324	34779 1724012	73748	148440	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	++++ 554806	28418 1239998	53439 2764187	112088	217721	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-156213-1

Analy Batch No.: 481153

SDG No.: \_\_\_\_\_

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2019 14:46

Calibration End Date: 07/08/2019 17:35

Calibration ID: 37204

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	++++ 246505	11888 511773	21700 1135356	45627	90974	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	++++ 329871	15917 643899	29403 1368808	58757	127937	++++ 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	7295 225332	14403 438297	22298 940046	44863	87069	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	3521 292227	10677 609048	21689 1433789	45064	98107	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	10744 635360	27425 1229890	51568 2597944	111581	238931	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	++++ 206036	10229 441340	18191 948455	39777	80069	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	15301 925757	38634 1792660	75471 3775665	161230	356703	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	5087 251172	14364 569729	27059 1277208	56940	101549	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	++++ 344471	14933 724812	31604 1539243	64653	133056	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	10600 713461	25454 1518680	52046 3395759	107263	251084	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	++++ 263036	13471 580535	23959 1283580	52727	101681	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	4010 237669	11140 495363	20252 1058651	43164	90188	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	8496 535969	22273 1050691	44266 2229969	92190	203133	2.00 125	5.00 250	10.0 500	25.0	50.0
Bromochloromethane	FB	Ave	2218 138170	5670 273259	11769 583667	24291	49357	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	3001 158054	6562 289824	13083 620107	26151	60971	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	++++ 365160	17485 741863	33597 1592266	68044	140555	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	3776 263896	11410 605234	22926 1401427	48963	99313	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	5063 284672	15088 690911	29352 1537272	61745	120239	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	3009 187102	9432 466812	17527 1163086	33480	68157	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	4274 250666	12065 556202	24799 1221870	48873	98793	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	14818 800030	36769 1661056	74074 3529551	152148	308357	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-156213-1

Analy Batch No.: 481153

SDG No.: \_\_\_\_\_

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2019 14:46

Calibration End Date: 07/08/2019 17:35

Calibration ID: 37204

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	2927 214116	6296 471334	12990 ++++	28795	68618	10.0 625	25.0 1250	50.0 ++++	125	250
1,2-Dichloroethane	FB	Ave	++++ 301640	12904 599428	27140 1241969	53643	113492	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	4549 257664	14716 588080	27046 1313631	59425	100767	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	4128 211557	9906 447749	19367 967106	39116	81372	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	5162 312314	16578 727107	32638 1666272	69182	127919	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	3284 204134	8606 419009	18056 884950	36149	79121	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2219 147693	5768 293590	11197 636346	26183	54215	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 81783	2395 155220	6678 335894	13411	31184	++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	3238 211443	7746 466260	15423 1086684	35030	73457	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	2303 158912	6417 319052	13024 672763	27103	61255	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	4621 326906	12264 670384	23526 1477330	52991	116476	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	17703 1244531	46230 2414093	93988 5043250	200454	472510	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	10005 537324	26281 1116345	48019 2398006	100905	202279	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	4181 297618	11585 630686	21424 1406962	47959	108127	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	4043 284531	9402 588205	20815 1291873	41783	99559	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	2824 170958	7439 345409	14413 727576	29998	65179	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	4000 232563	10481 513622	21406 1153520	44314	92176	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	6020 354184	14818 697755	31342 1478046	60054	135211	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	12095 872593	29757 1703575	63818 3583258	139201	325016	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	2168 151702	5510 349351	10490 ++++	21654	50221	0.400 25.0	1.00 50.0	2.00 ++++	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	++++ 225407	8195 454613	16957 997039	36771	81629	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0



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

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-156213-1

Analy Batch No.: 481153

SDG No.: \_\_\_\_\_

Instrument ID: HP5975T

GC Column: ZB-624 (20) ID: 0.18 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2019 14:46

Calibration End Date: 07/08/2019 17:35

Calibration ID: 37204

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	11451 632848	28473 1282735	55264 2737983	112591	246846	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	17357 1016165	46359 2097532	90664 4509828	189208	386643	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	2042 178111	6584 404989	12179 955241	25516	57948	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	7331 413928	16977 859192	37413 1873225	74448	154738	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	7689 409520	17559 848766	36076 1864579	72735	158540	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	11969 709564	29534 1475521	59279 3159227	128374	269928	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	1123 89835	3047 208851	6062 +++++	12691	27923	0.400 25.0	1.00 50.0	2.00 +++++	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	17553 1037097	47477 2188031	92240 4778097	194566	394143	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	5463 299844	11878 611443	25099 1336108	50165	109573	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4534 297579	10974 585940	22162 1278192	48069	105416	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	21041 1205412	56787 2529434	105296 5468841	217948	458939	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1360 105624	3526 207921	8227 439355	18061	38558	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1140 86408	3272 173398	6530 389475	14312	32617	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	4607 268964	12204 554430	21961 1188913	47775	102984	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	14640 904358	40708 1892594	77053 4048757	157813	345392	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	14149 864493	38253 1766990	73144 3826652	156940	323874	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3851 206718	9297 445227	17604 993535	37339	79547	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	16971 940070	40902 1940977	77363 4176757	167584	347809	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	18784 1128181	52008 2408733	99919 5346269	211110	425099	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	15923 1026850	43298 2176582	87673 4755916	188665	383357	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	9985 583546	24392 1194306	47683 2589092	103141	215514	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 481153

SDG No.: \_\_\_\_\_

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2019 14:46 Calibration End Date: 07/08/2019 17:35 Calibration ID: 37204

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	10174 593656	25197 1198792	49372 2608714	102196	227537	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	13368 902889	39330 1884251	77346 4151072	165116	331808	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	8976 589101	25017 1191423	47343 2592868	103158	218219	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	++++ 40469	1125 86612	2422 ++++	5280	12928	++++ 25.0	1.00 50.0	2.00 ++++	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	7452 435151	17042 855481	33076 1905428	74765	158279	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3002 173458	8514 370391	13785 853128	30831	59744	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	19039 1253792	51087 2445422	97407 5194726	205090	465755	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	7142 428986	18214 849108	34508 1879474	74031	158191	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	215347 228807	215285 233600	217195 246679	217954	227369	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	250783 264627	249990 261834	260344 262388	253743	265836	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	834621 878845	861593 894809	863284 913408	841439	868762	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	269129 295296	282864 309784	287989 329192	273939	288304	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD  
Lin1 = Linear 1/conc ISTD

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
 Lims ID: IC 0.4  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 08-Jul-2019 14:46:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 0.4  
 Misc. Info.: 480-0082467-005  
 Operator ID: KN Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:49:55 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: farrellr Date: 09-Jul-2019 08:35:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	154581	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	680944	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	384924	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.222	-0.001	93	215347	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.460	0.000	0	250783	25.0	25.5	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.849	0.010	93	834621	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	269129	25.0	24.0	
11 Dichlorodifluoromethane	85	1.144	1.144	0.000	52	4472	0.4000	0.4335	
13 Chloromethane	50	1.299	1.289	0.010	61	4741	0.4000	0.4969	
151 Butadiene	54	1.351	1.361	-0.010	84	3588	0.4000	0.4277	
14 Vinyl chloride	62	1.372	1.382	-0.010	91	4112	0.4000	0.4200	
15 Bromomethane	94	1.610	1.620	-0.010	82	4651	0.4000	0.5724	M
16 Chloroethane	64	1.672	1.672	0.000	85	3002	0.4000	0.4587	M
18 Dichlorofluoromethane	67	1.879	1.890	-0.011	88	7345	0.4000	0.4524	M
17 Trichlorofluoromethane	101	1.890	1.890	0.000	72	7670	0.4000	0.4650	
19 Ethyl ether	59	2.138	2.128	0.010	59	3783	0.4000	0.4953	
21 Acrolein	56	2.304	2.304	0.000	92	4193	2.00	3.09	
22 1,1-Dichloroethene	96	2.325	2.335	-0.010	93	3189	0.4000	0.4498	
20 1,1,2-Trichloro-1,2,2-trif	101	2.335	2.335	0.000	57	2398	0.4000	0.3181	
23 Acetone	43	2.460	2.449	0.011	99	7145	2.00	2.99	
24 Iodomethane	142	2.480	2.481	-0.001	95	7110	0.4000	0.4579	
25 Carbon disulfide	76	2.512	2.512	0.000	78	11774	0.4000	0.5028	
27 3-Chloro-1-propene	41	2.667	2.667	0.000	82	6655	0.4000	0.6829	
28 Methyl acetate	43		2.709				ND	ND	Ua
30 Methylene Chloride	84	2.812	2.802	0.010	93	7295	0.4000	0.3764	
31 2-Methyl-2-propanol	59	2.999	2.978	0.021	48	3521	4.00	3.41	
33 Methyl tert-butyl ether	73	2.999	2.988	0.011	91	10744	0.4000	0.4475	
32 trans-1,2-Dichloroethene	96	2.999	2.999	0.000	95	4077	0.4000	0.4898	
34 Acrylonitrile	53	3.061	3.061	0.000	100	15301	4.00	4.40	
35 Hexane	57	3.164	3.165	-0.001	91	5087	0.4000	0.4442	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.361	3.361	0.000	94	6393	0.4000	0.4721	
39 Vinyl acetate	43	3.403	3.403	0.000	94	10600	0.8000	0.8240	
42 2,2-Dichloropropane	77	3.807	3.807	0.000	66	4993	0.4000	0.4572	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	80	4010	0.4000	0.4281	
44 2-Butanone (MEK)	43	3.869	3.859	0.010	97	8496	2.00	2.12	
47 Chlorobromomethane	128	4.025	4.025	0.000	83	2218	0.4000	0.4276	
48 Tetrahydrofuran	42	4.035	4.035	0.000	92	3001	0.8000	1.01	a
50 Chloroform	83	4.097	4.097	0.000	91	8477	0.4000	0.5868	
51 1,1,1-Trichloroethane	97	4.180	4.180	0.000	44	3776	0.4000	0.3596	
52 Cyclohexane	56	4.180	4.180	0.000	54	5063	0.4000	0.3975	
54 1,1-Dichloropropene	75	4.294	4.294	0.000	93	4274	0.4000	0.4086	
53 Carbon tetrachloride	117	4.294	4.294	0.000	66	3009	0.4000	0.3756	
55 Benzene	78	4.460	4.470	-0.010	43	14818	0.4000	0.4577	
56 Isobutyl alcohol	43	4.501	4.491	0.010	28	2927	10.0	10.6	
57 1,2-Dichloroethane	62	4.522	4.522	0.000	2	6150	0.4000	0.5375	a
59 n-Heptane	43	4.594	4.605	-0.011	84	4549	0.4000	0.3958	
60 Trichloroethene	95	4.947	4.947	0.000	93	4128	0.4000	0.4764	
62 Methylcyclohexane	83	5.040	5.040	0.000	85	5162	0.4000	0.3747	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	90	3284	0.4000	0.4171	
65 Dibromomethane	93	5.247	5.247	0.000	94	2219	0.4000	0.4095	
66 1,4-Dioxane	88	5.268	5.258	0.010	0	518	8.00	3.58	M
67 Dichlorobromomethane	83	5.372	5.372	0.000	97	3238	0.4000	0.4111	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	0	2303	0.4000	0.3911	M
71 cis-1,3-Dichloropropene	75	5.683	5.683	0.000	94	4621	0.4000	0.3939	a
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	17703	2.00	1.98	
73 Toluene	92	5.900	5.900	0.000	98	10005	0.4000	0.4539	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	91	4181	0.4000	0.3808	
77 Ethyl methacrylate	69	6.149	6.149	0.000	0	4043	0.4000	0.4009	M
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	88	2824	0.4000	0.4259	
79 Tetrachloroethene	166	6.304	6.305	-0.001	0	4000	0.4000	0.4150	M
80 1,3-Dichloropropane	76	6.387	6.387	0.000	88	6020	0.4000	0.4400	a
81 2-Hexanone	43	6.429	6.429	0.000	94	12095	2.00	1.96	
82 Chlorodibromomethane	129	6.563	6.564	-0.001	80	2168	0.4000	0.4071	Ma
83 Ethylene Dibromide	107		6.647				ND	ND	
86 Chlorobenzene	112	6.999	6.999	0.000	94	11451	0.4000	0.4535	a
88 Ethylbenzene	91	7.061	7.061	0.000	98	17357	0.4000	0.4262	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	0	2042	0.4000	0.3203	M
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	7331	0.4000	0.4464	
91 o-Xylene	106	7.465	7.465	0.000	93	7689	0.4000	0.4668	
92 Styrene	104	7.486	7.486	0.000	93	11969	0.4000	0.4314	
93 Bromoform	173	7.683	7.683	0.000	0	1123	0.4000	0.3703	M
95 Isopropylbenzene	105	7.755	7.755	0.000	94	17553	0.4000	0.4222	
97 Bromobenzene	156	8.025	8.025	0.000	87	5463	0.4000	0.4743	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	93	4534	0.4000	0.4236	
99 N-Propylbenzene	91	8.076	8.077	-0.001	99	21041	0.4000	0.4357	a
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	0	1360	0.4000	0.3655	M
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	0	1140	0.4000	0.3643	M
105 2-Chlorotoluene	126	8.170	8.170	0.000	0	4607	0.4000	0.4377	M
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	91	14640	0.4000	0.4145	
102 4-Chlorotoluene	91	8.263	8.253	0.010	95	14149	0.4000	0.4207	M
106 tert-Butylbenzene	134	8.481	8.481	0.000	89	3851	0.4000	0.4601	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	94	16971	0.4000	0.4614	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	94	18784	0.4000	0.4145	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	97	15923	0.4000	0.3991	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	96	9985	0.4000	0.4445	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	93	10174	0.4000	0.4438	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	13368	0.4000	0.3833	a
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	93	8976	0.4000	0.4032	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	0	371	0.4000	0.2894	M
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	91	7452	0.4000	0.4580	
120 Hexachlorobutadiene	225	10.584	10.584	0.000	91	3002	0.4000	0.4352	
121 Naphthalene	128	10.698	10.688	0.010	96	19039	0.4000	0.4140	a
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	92	7142	0.4000	0.4378	
S 123 1,3-Dichloropropene, Total	1				0			0.7748	
S 125 Total BTEX	1				0			2.25	
S 126 Xylenes, Total	1				0			0.9132	
S 124 1,2-Dichloroethene, Total	1				0			0.9179	

### QC Flag Legend

#### Processing Flags

ND - Not Detected or Marked ND

#### Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

### Reagents:

8260 CORP mix_00159	Amount Added: 0.40	Units: uL	
GAS CORP mix_00349	Amount Added: 0.40	Units: uL	
T_8260_Surr_00193	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00222	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D

Injection Date: 08-Jul-2019 14:46:30

Instrument ID: HP5975T

Operator ID: KN

Lims ID: IC 0.4

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

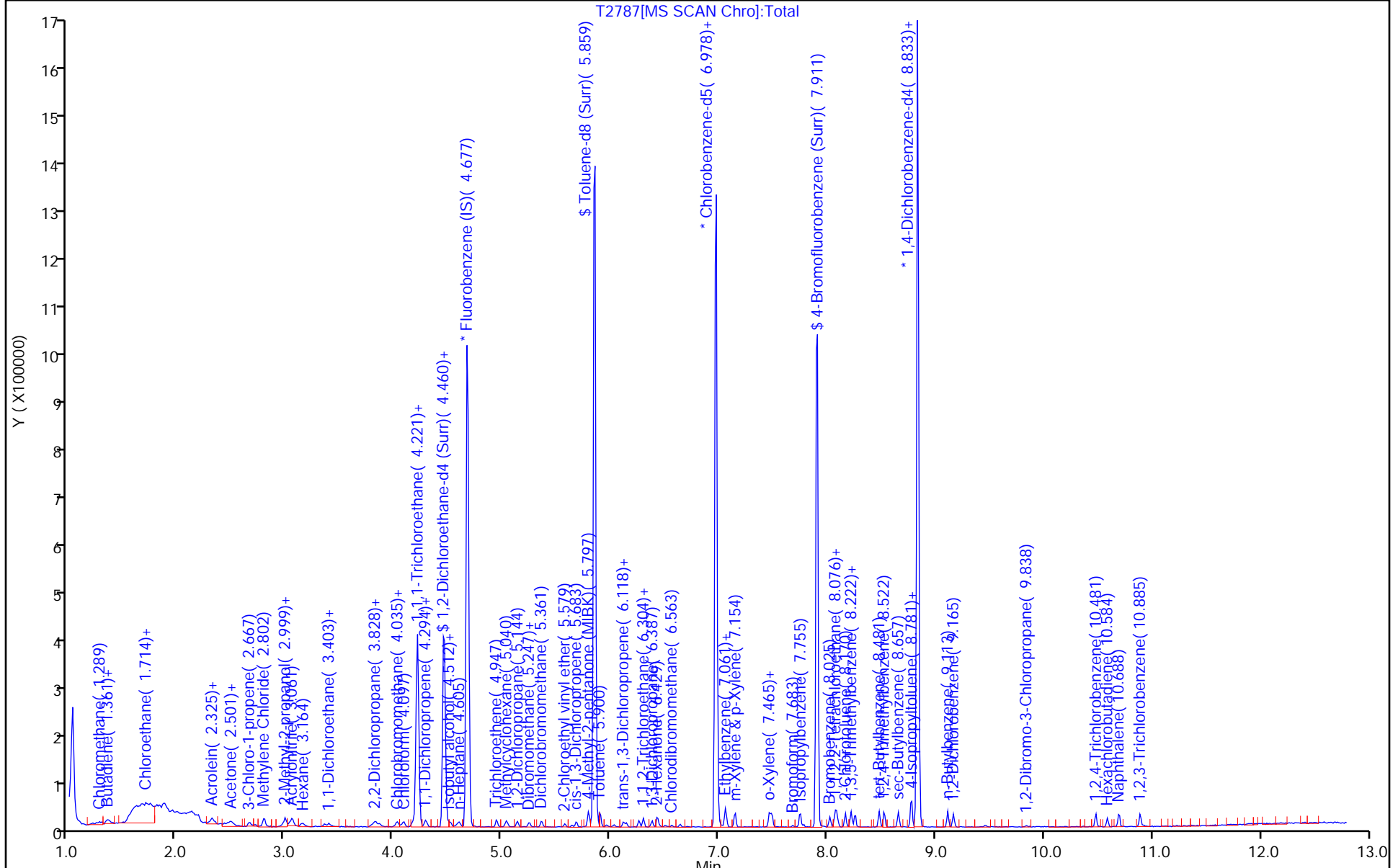
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

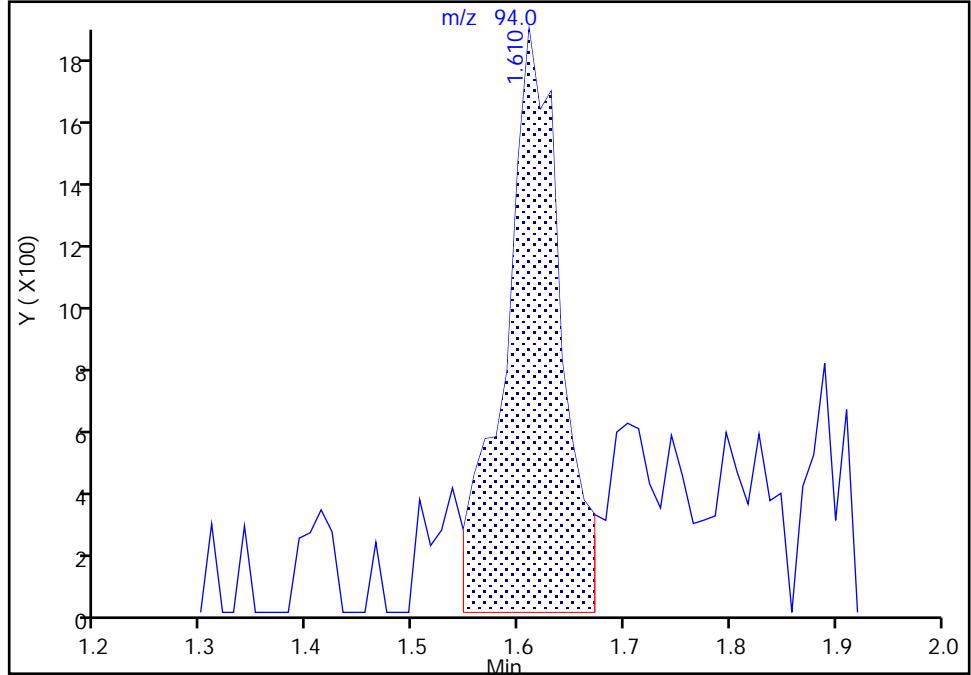
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

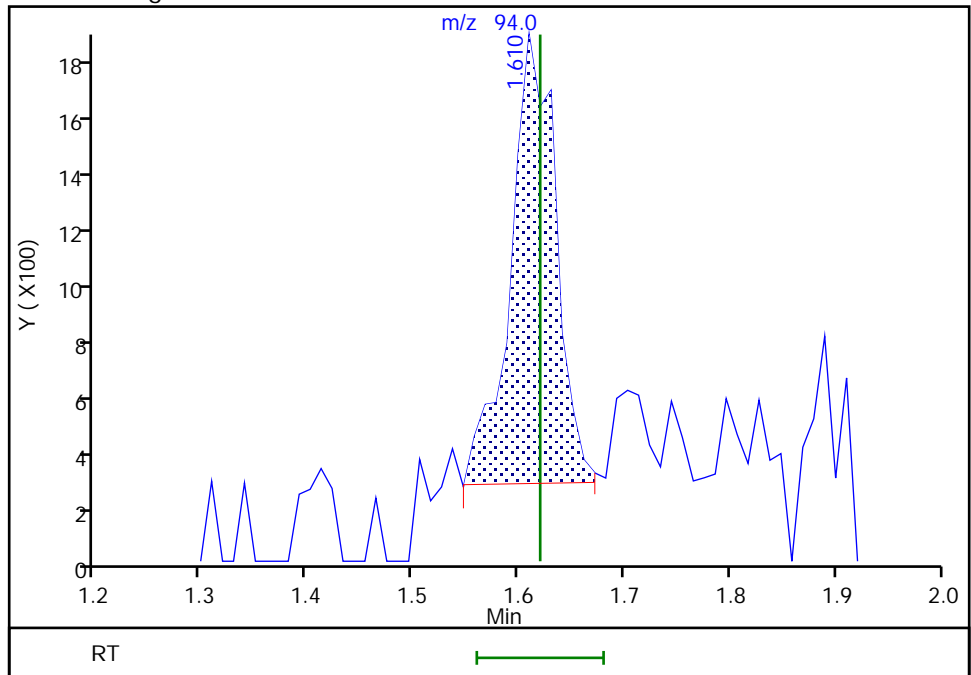
RT: 1.61  
Area: 6833  
Amount: 0.783204  
Amount Units: ug/L

Processing Integration Results



RT: 1.61  
Area: 4651  
Amount: 0.572352  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:04:13  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

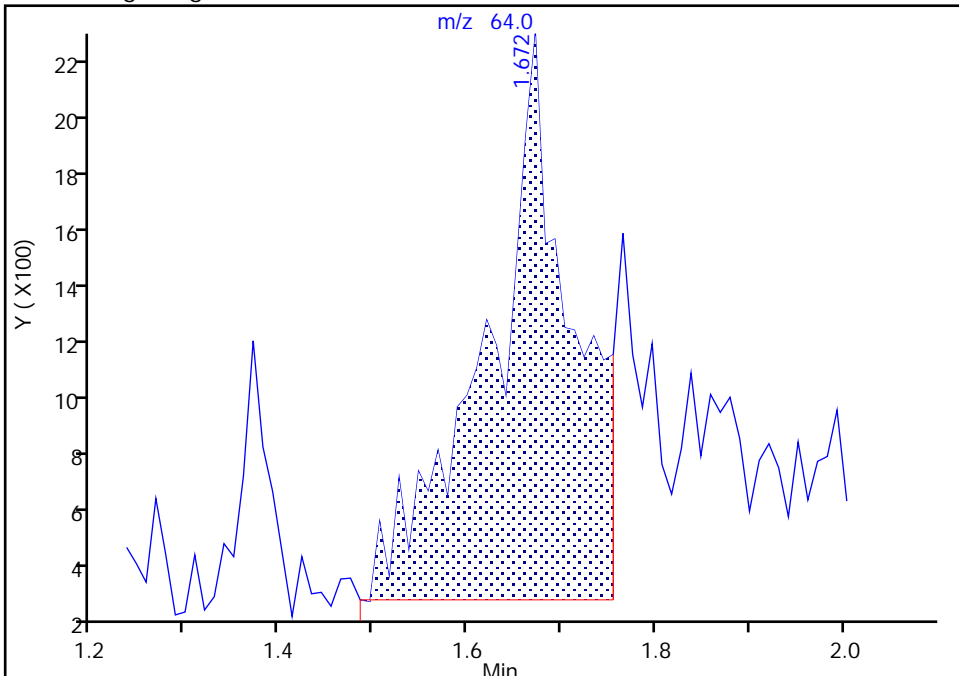
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

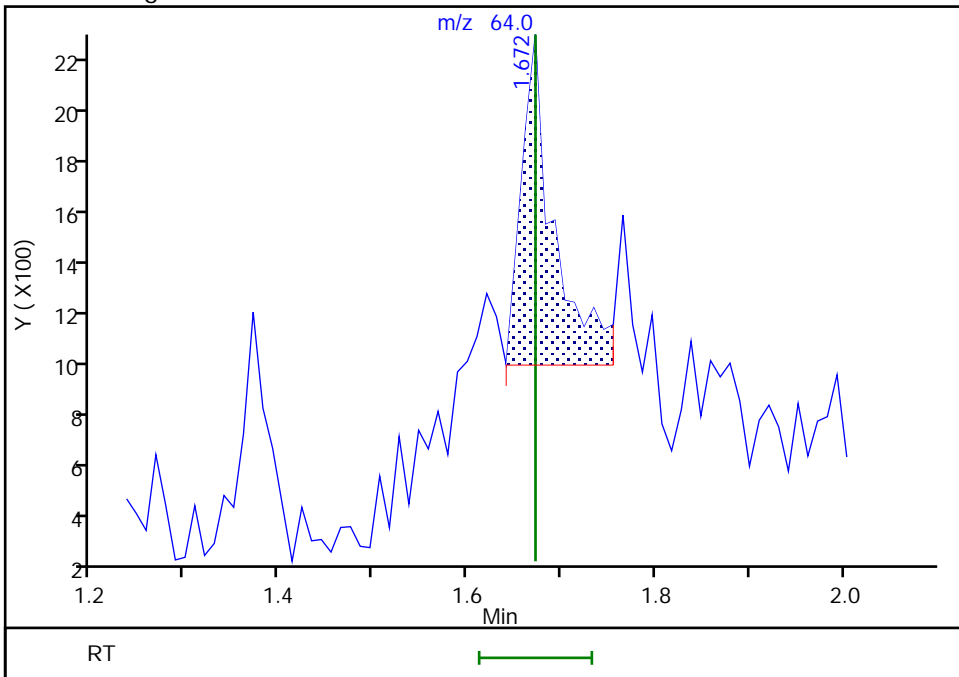
RT: 1.67  
Area: 12276  
Amount: 1.875931  
Amount Units: ug/L

Processing Integration Results



RT: 1.67  
Area: 3002  
Amount: 0.458744  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:04:22  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography



Eurofins TestAmerica, Buffalo

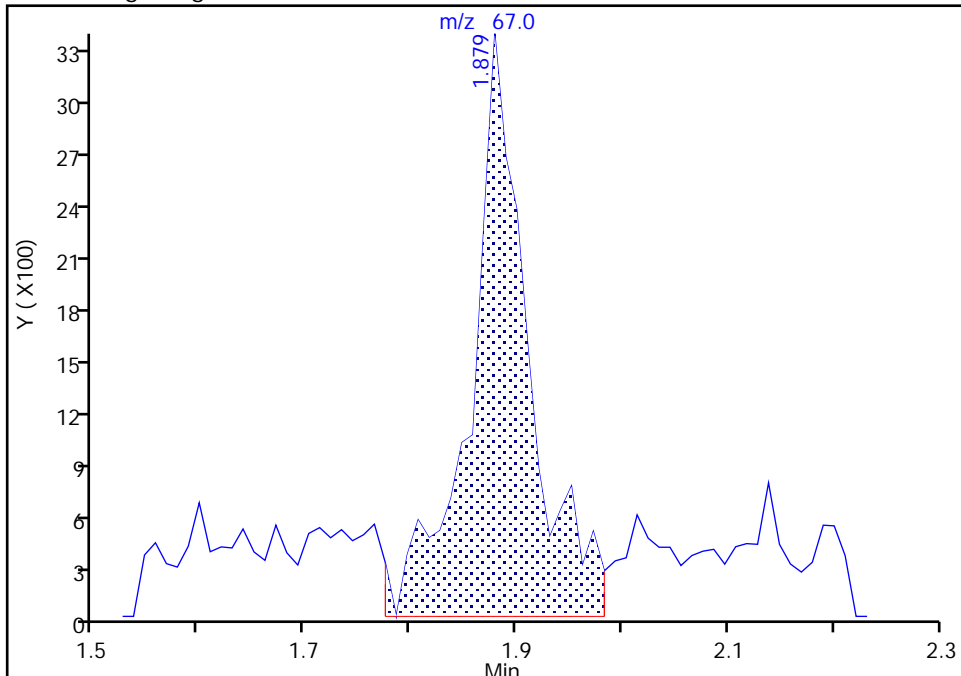
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

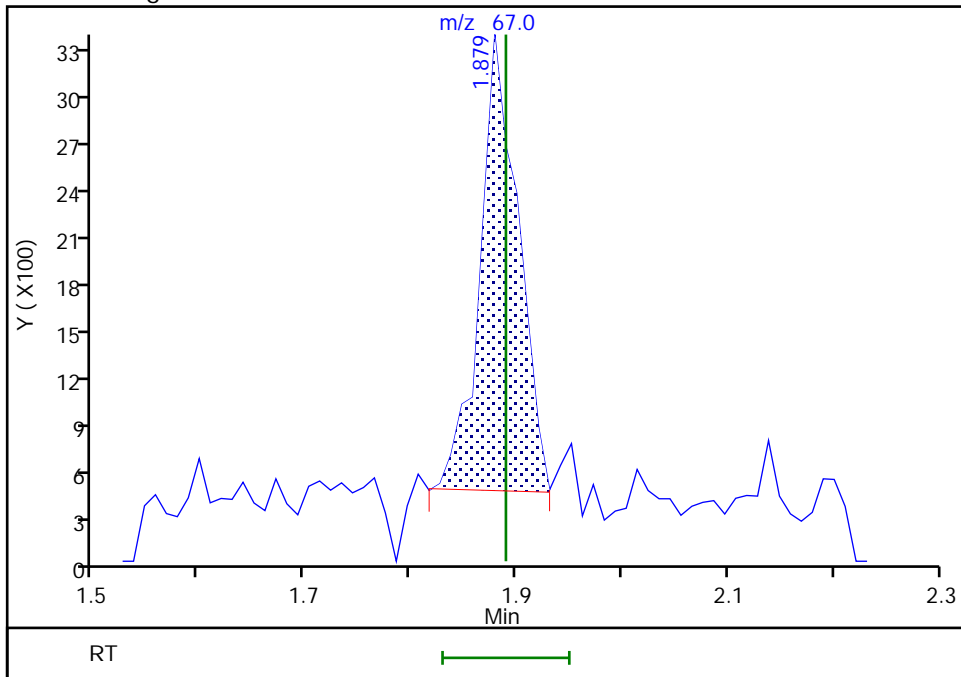
RT: 1.88  
Area: 13001  
Amount: 0.276589  
Amount Units: ug/L

Processing Integration Results



RT: 1.88  
Area: 7345  
Amount: 0.452379  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:04:31  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

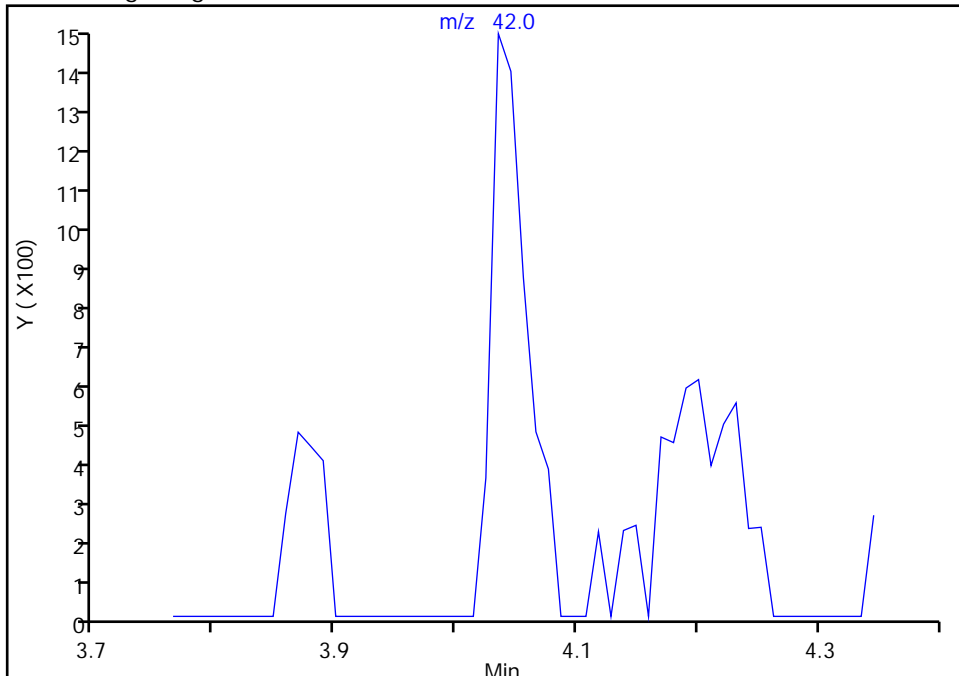
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

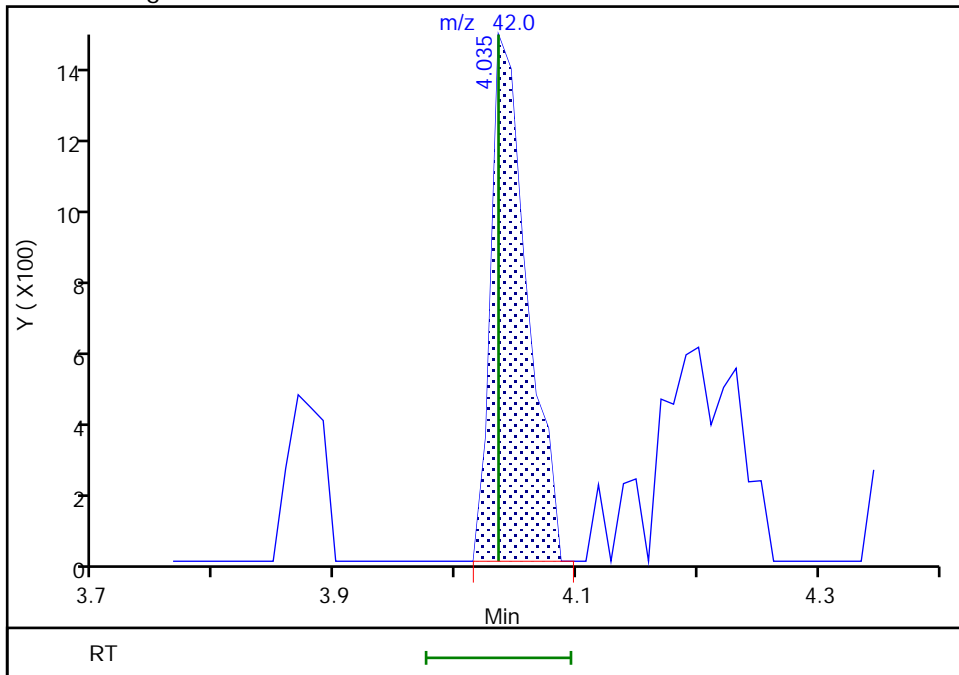
Not Detected  
Expected RT: 4.04

Processing Integration Results



Manual Integration Results

RT: 4.03  
Area: 3001  
Amount: 1.005323  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:31:59  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Buffalo

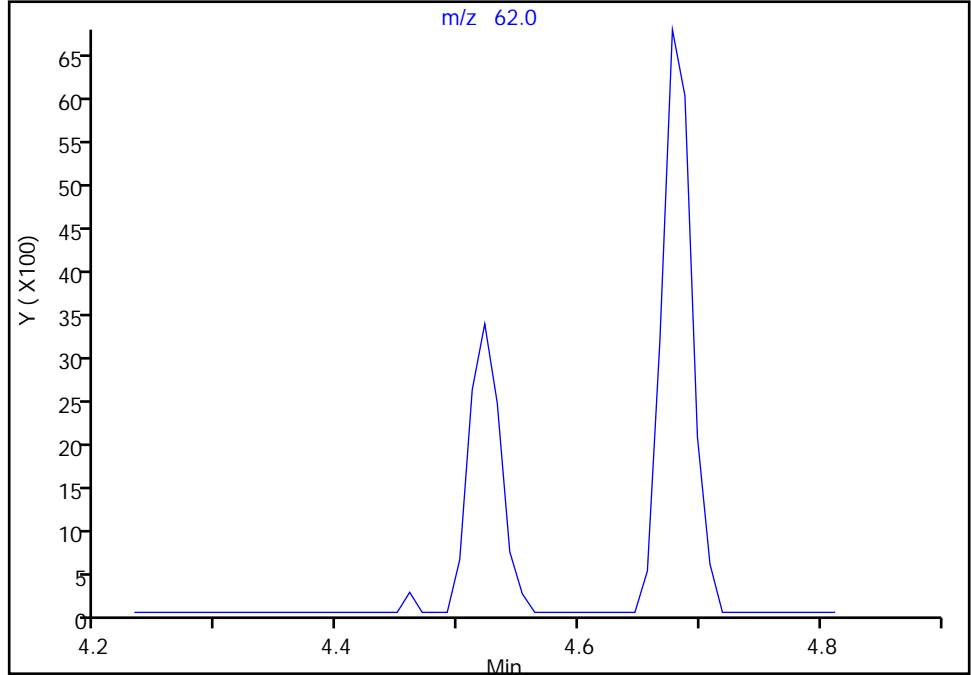
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

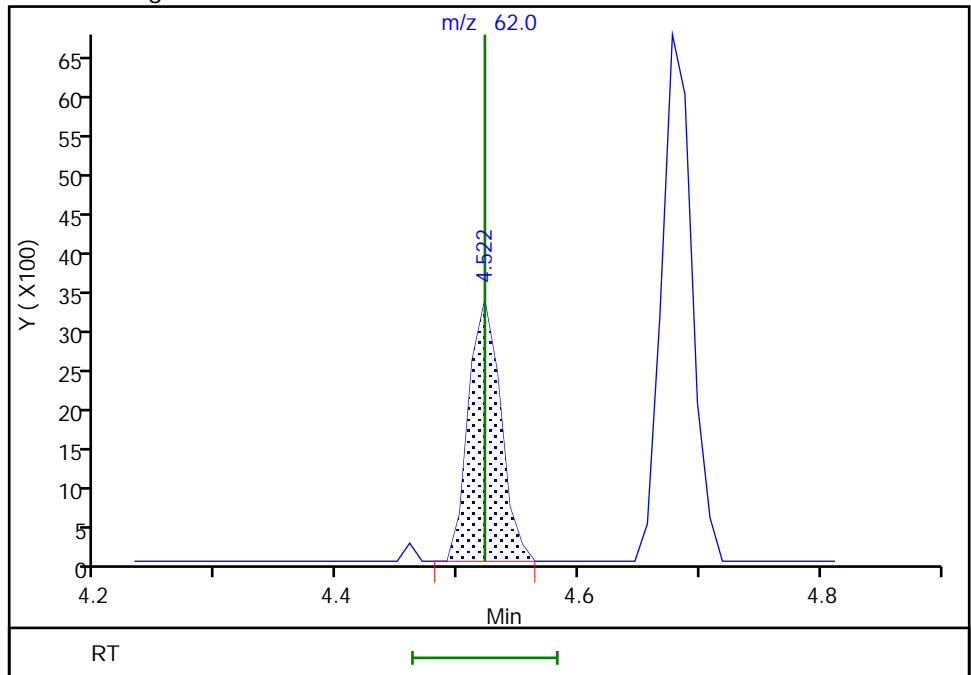
Not Detected  
Expected RT: 4.52

Processing Integration Results



RT: 4.52  
Area: 6150  
Amount: 0.537503  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:32:26  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Buffalo

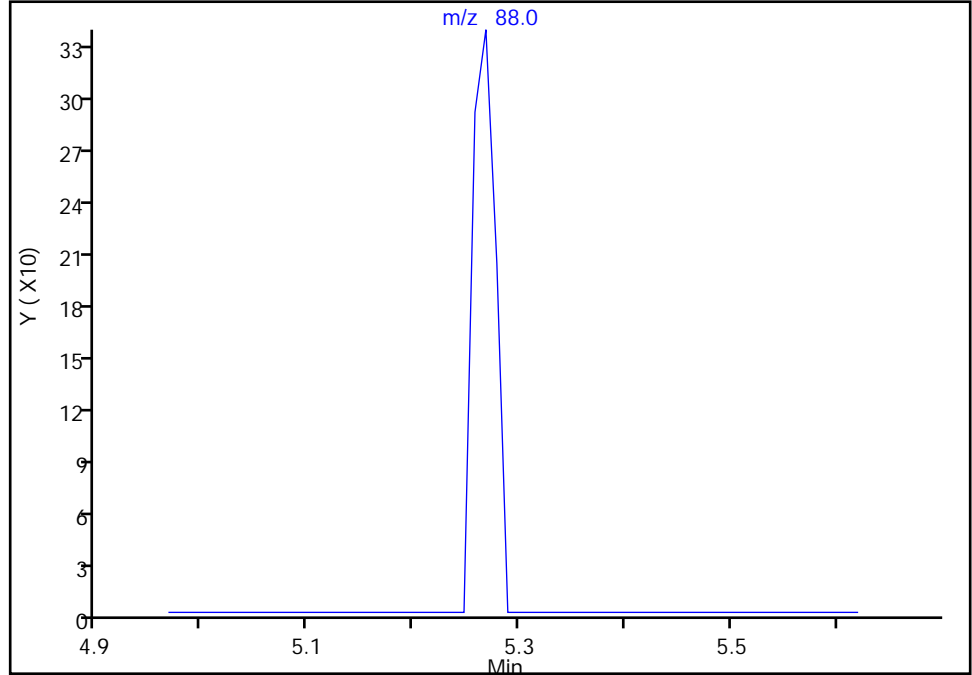
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

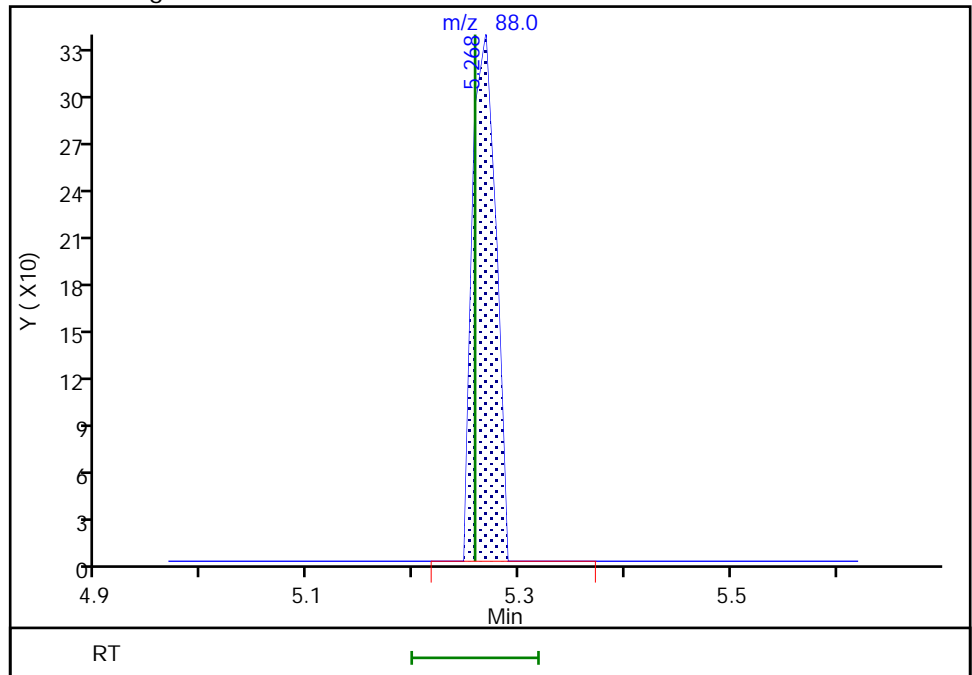
Not Detected  
Expected RT: 5.26

Processing Integration Results



Manual Integration Results

RT: 5.27  
Area: 518  
Amount: 3.576306  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:32:52  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

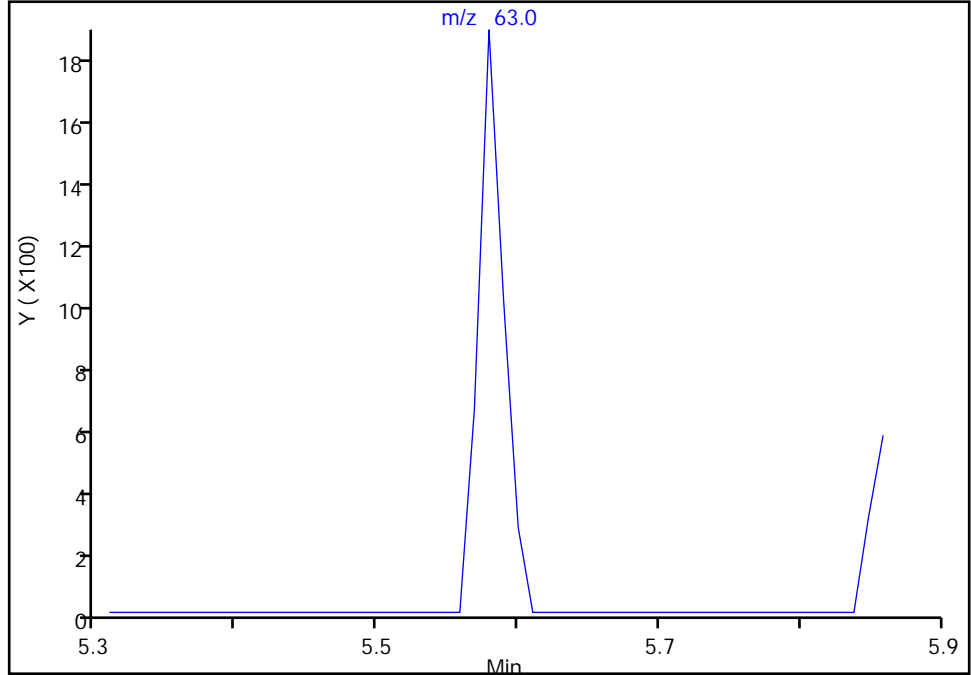
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

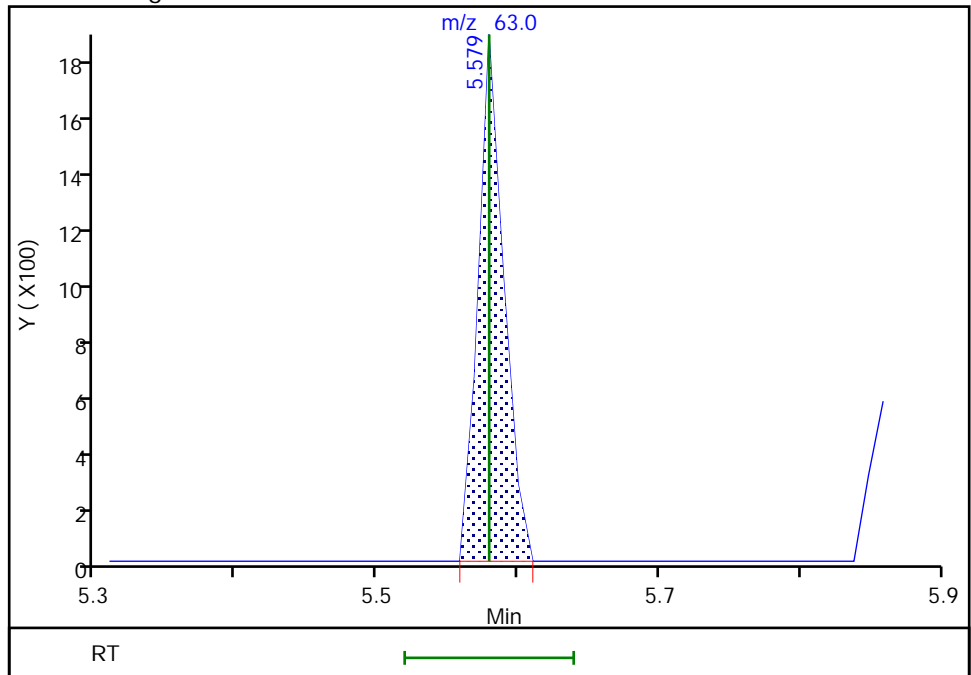
Not Detected  
Expected RT: 5.58

Processing Integration Results



RT: 5.58  
Area: 2303  
Amount: 0.391058  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:33:07  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

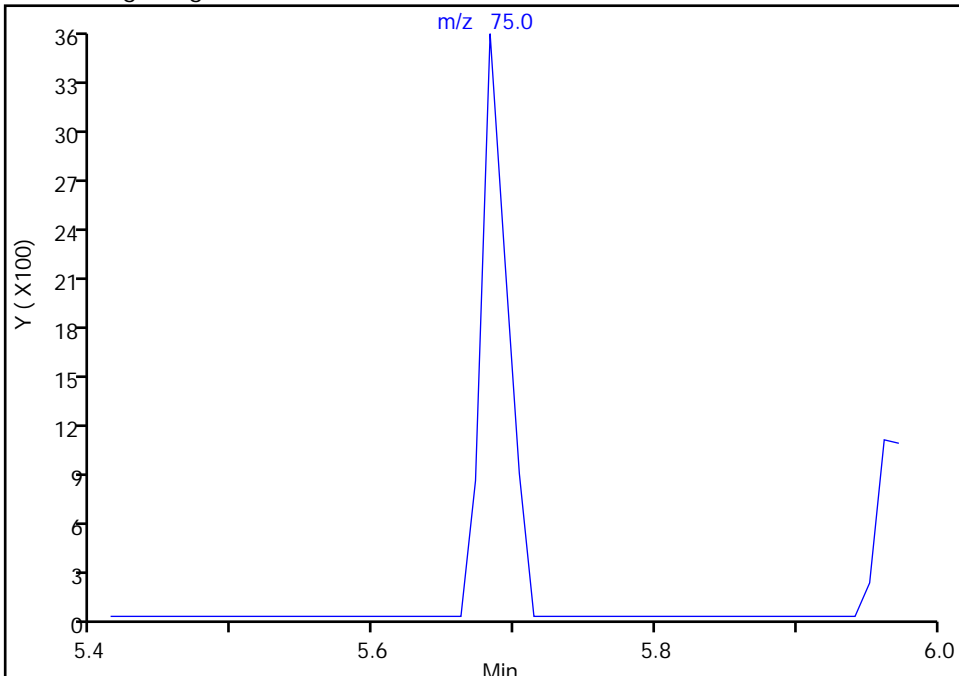
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Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

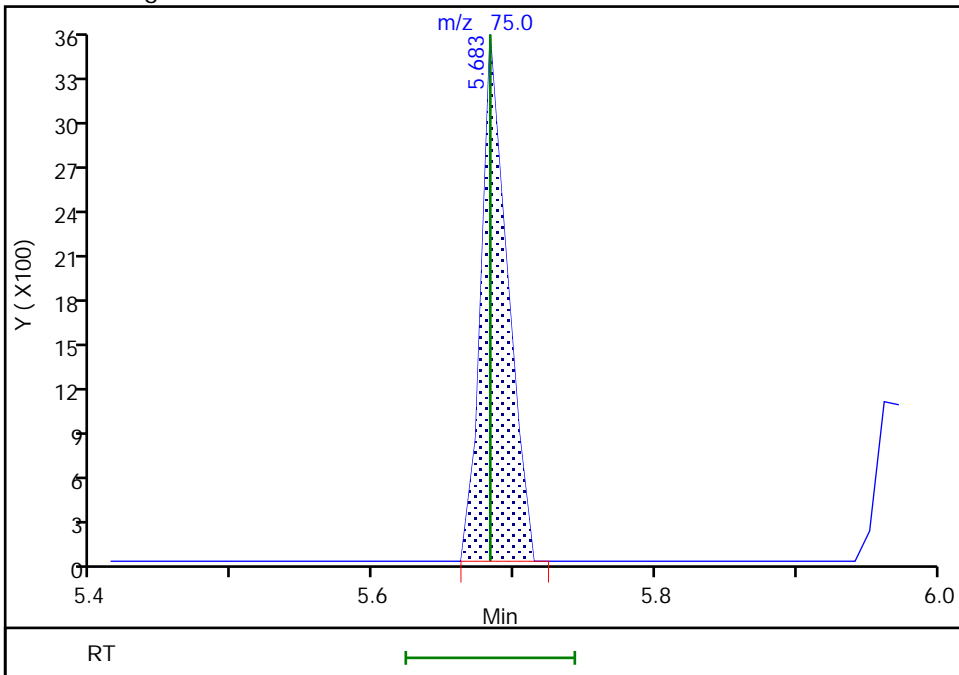
Not Detected  
Expected RT: 5.68

Processing Integration Results



Manual Integration Results

RT: 5.68  
Area: 4621  
Amount: 0.393925  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:33:12  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

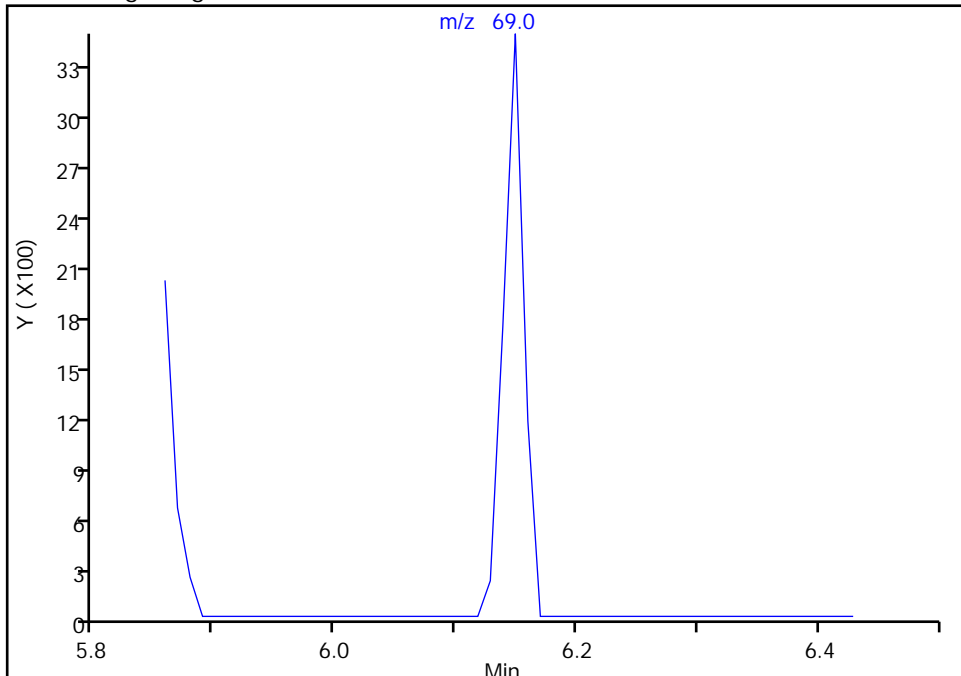
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

77 Ethyl methacrylate, CAS: 97-63-2

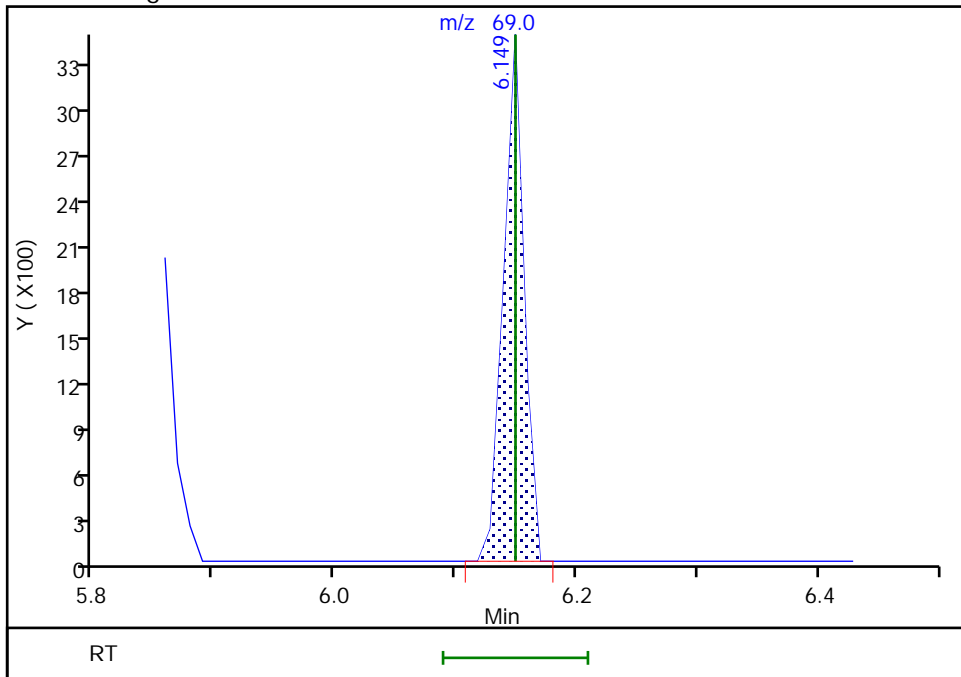
Signal: 1

Not Detected  
Expected RT: 6.15

Processing Integration Results



Manual Integration Results



RT: 6.15  
Area: 4043  
Amount: 0.400868  
Amount Units: ug/L

Reviewer: farrellr, 09-Jul-2019 08:36:16  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Euofins TestAmerica, Buffalo

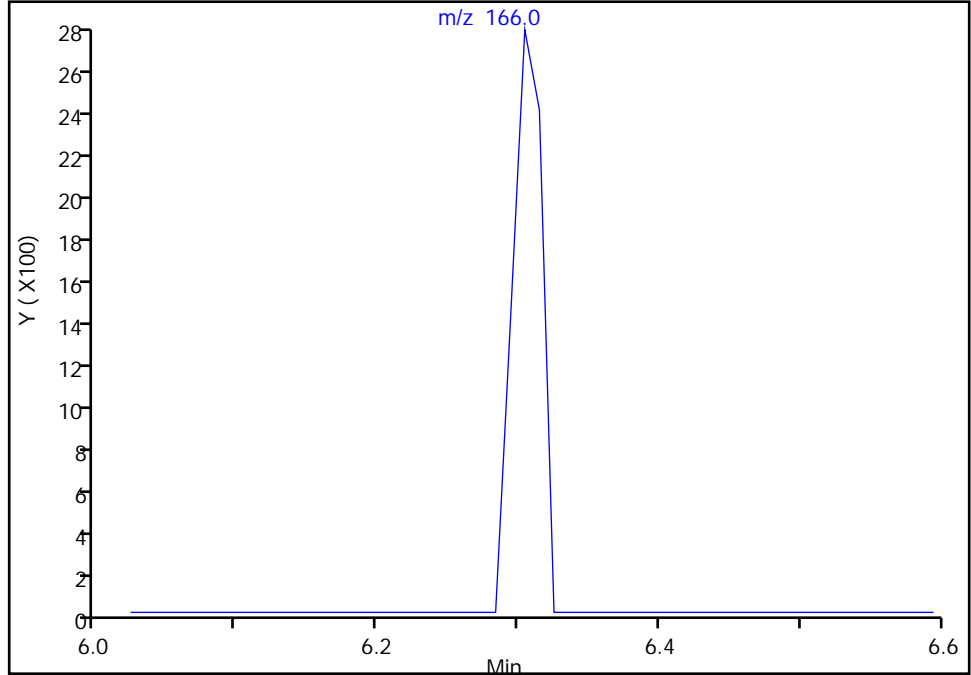
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

Signal: 1

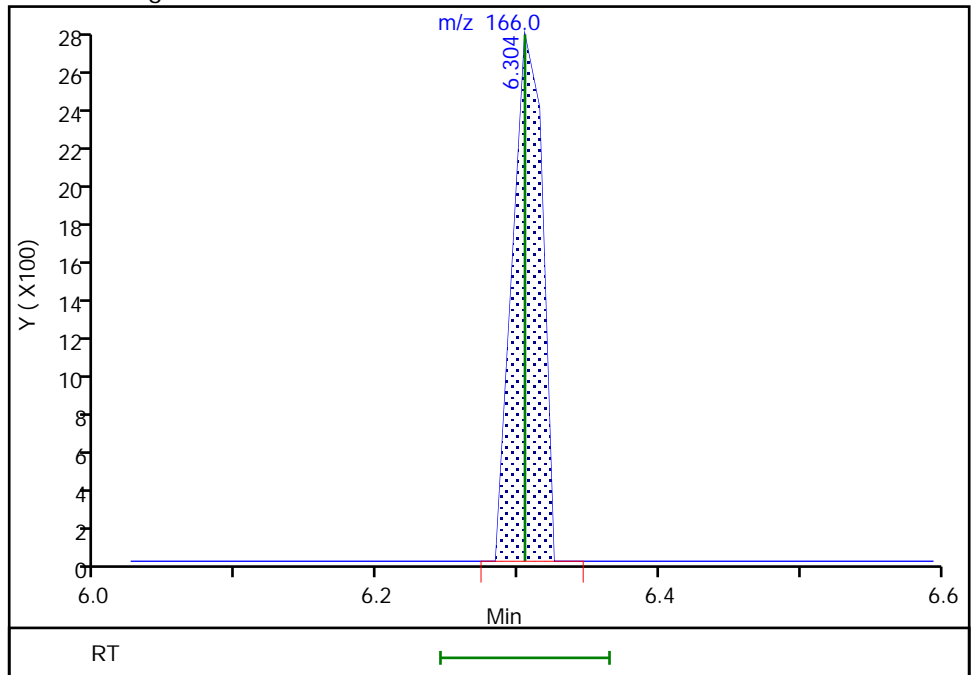
Not Detected  
Expected RT: 6.30

Processing Integration Results



Manual Integration Results

RT: 6.30  
Area: 4000  
Amount: 0.414988  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:36:27  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography



Eurofins TestAmerica, Buffalo

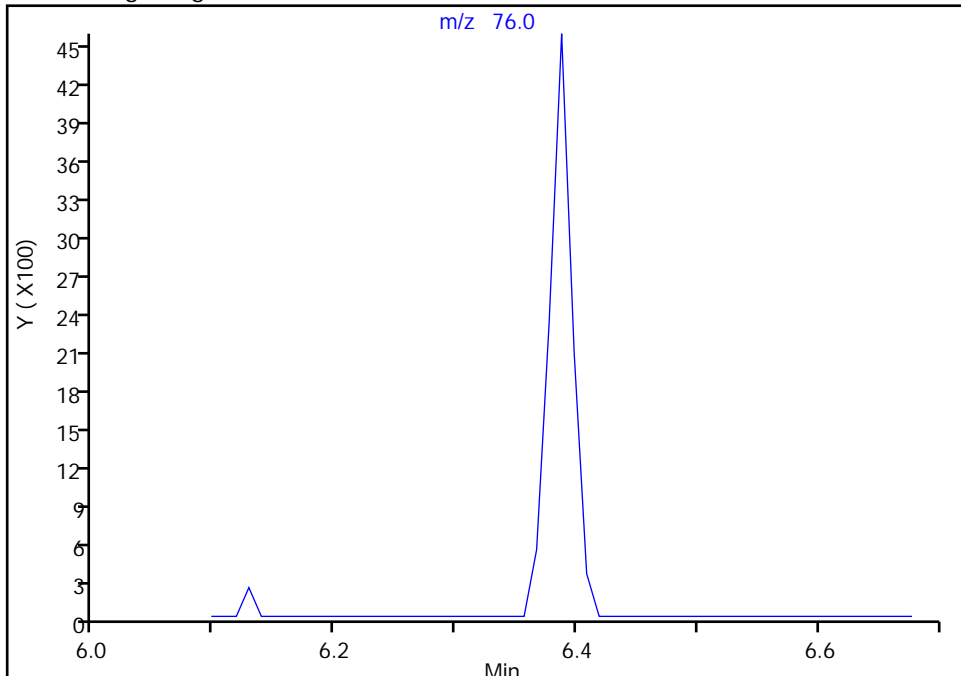
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

80 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

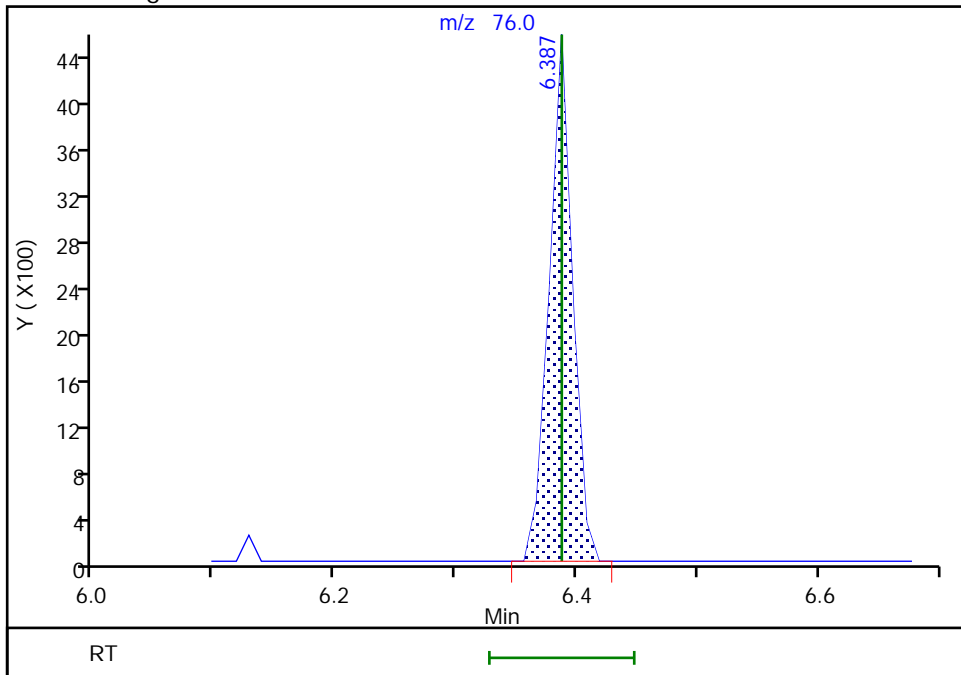
Not Detected  
Expected RT: 6.39

Processing Integration Results



Manual Integration Results

RT: 6.39  
Area: 6020  
Amount: 0.439964  
Amount Units: ug/L



Eurofins TestAmerica, Buffalo

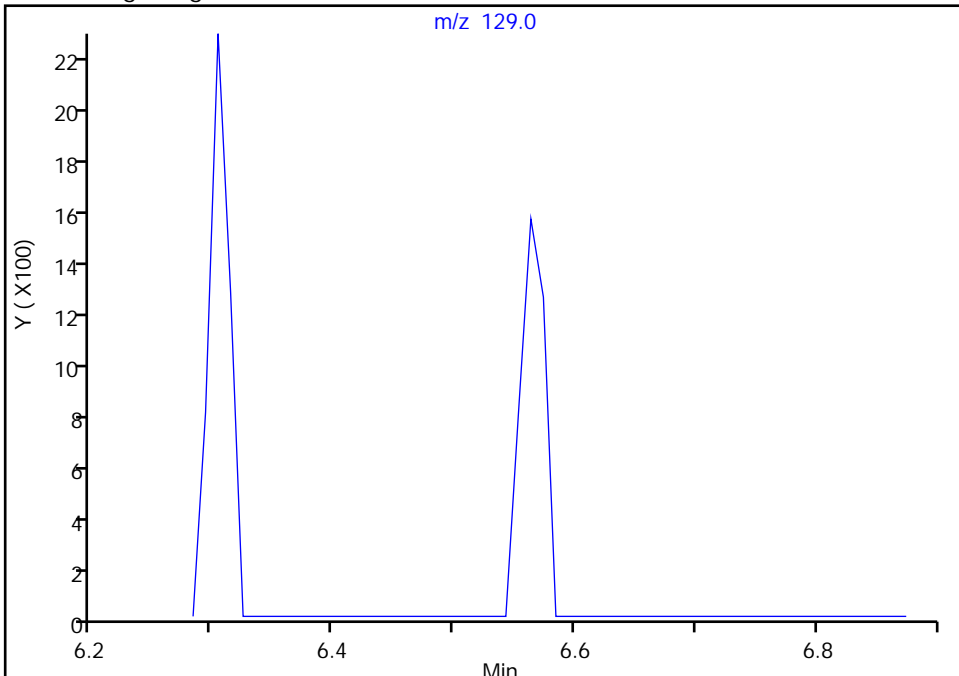
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

82 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

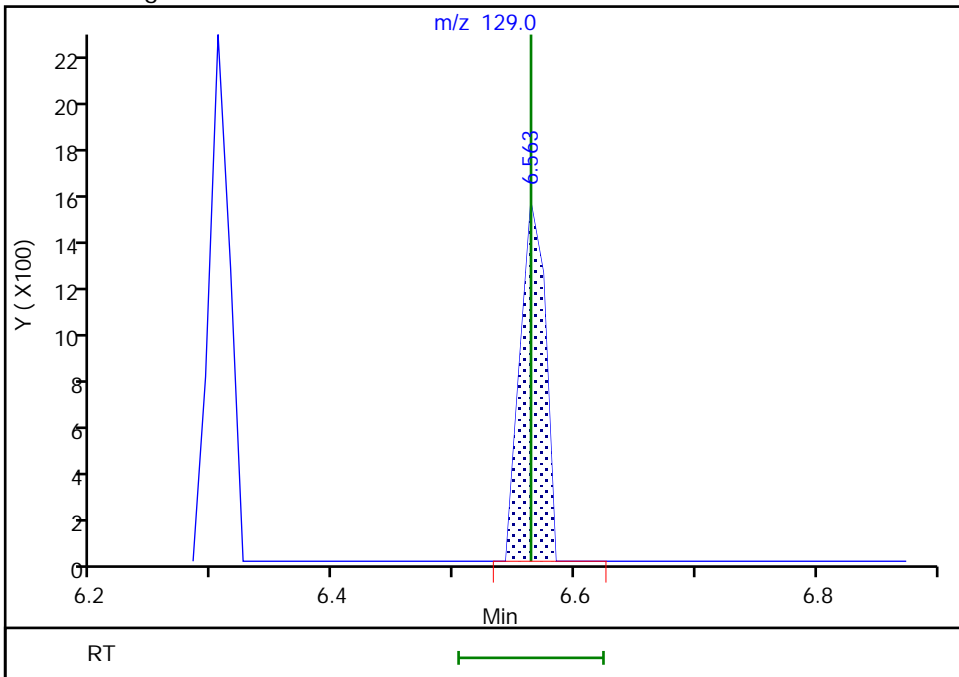
Not Detected  
Expected RT: 6.56

Processing Integration Results



Manual Integration Results

RT: 6.56  
Area: 2168  
Amount: 0.407071  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:37:06  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

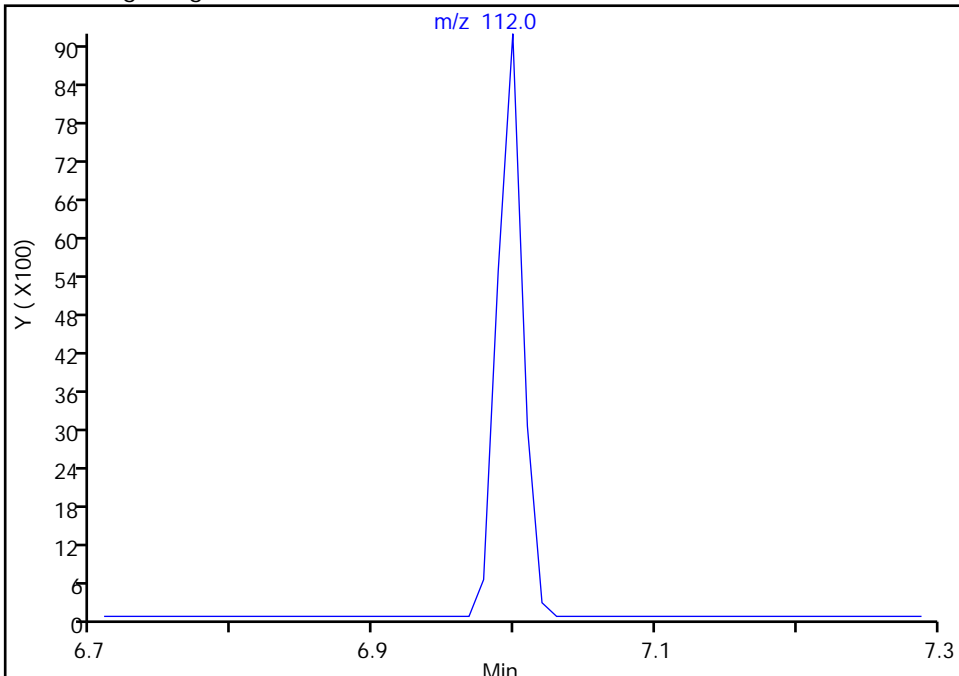
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

86 Chlorobenzene, CAS: 108-90-7

Signal: 1

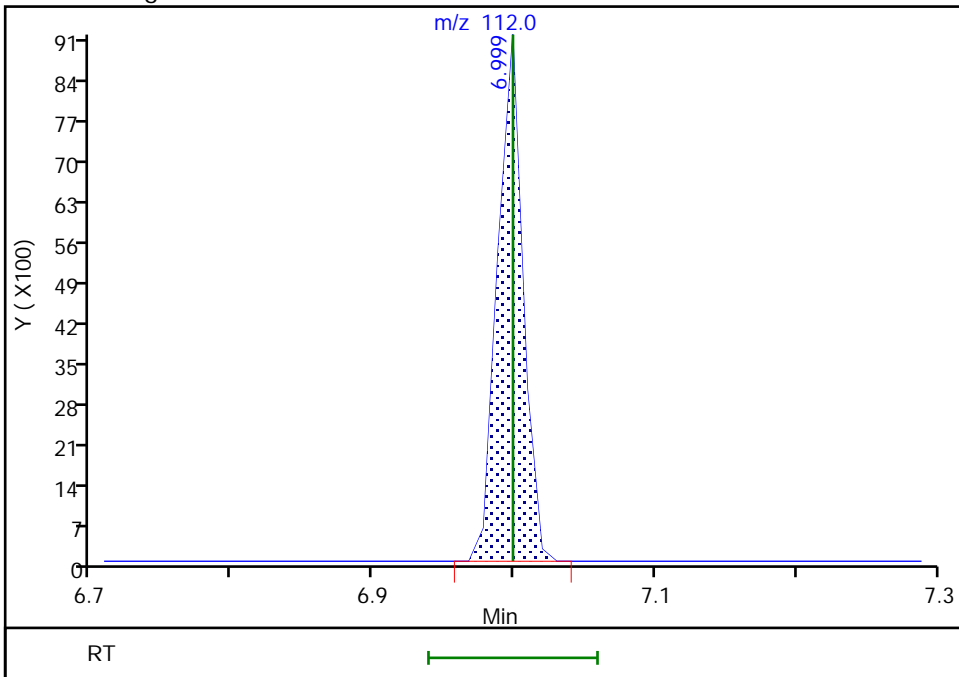
Not Detected  
Expected RT: 7.00

Processing Integration Results



RT: 7.00  
Area: 11451  
Amount: 0.453494  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:37:22  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

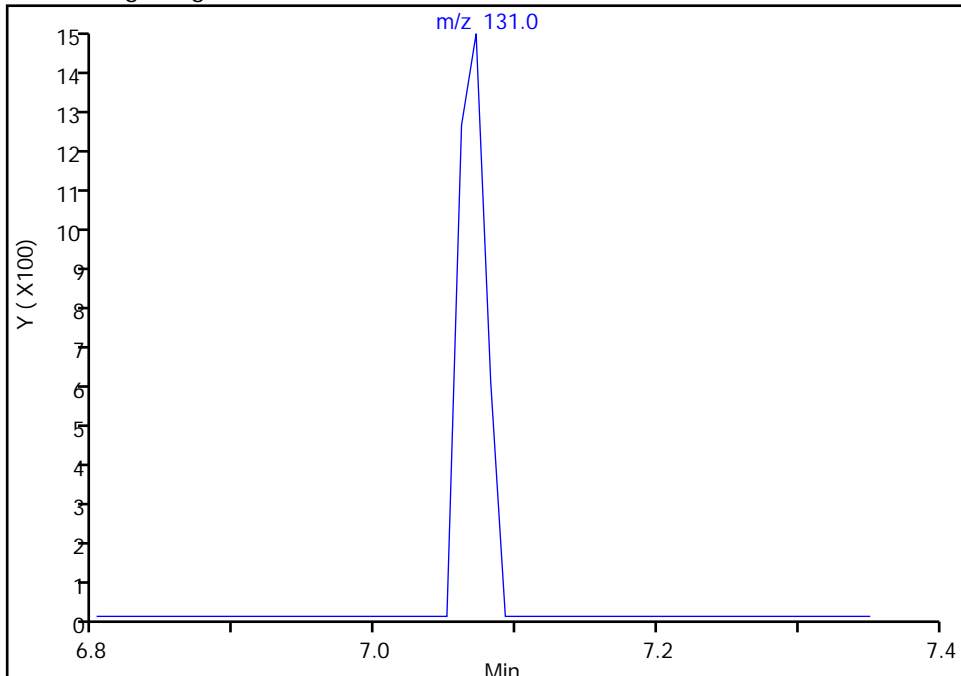
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

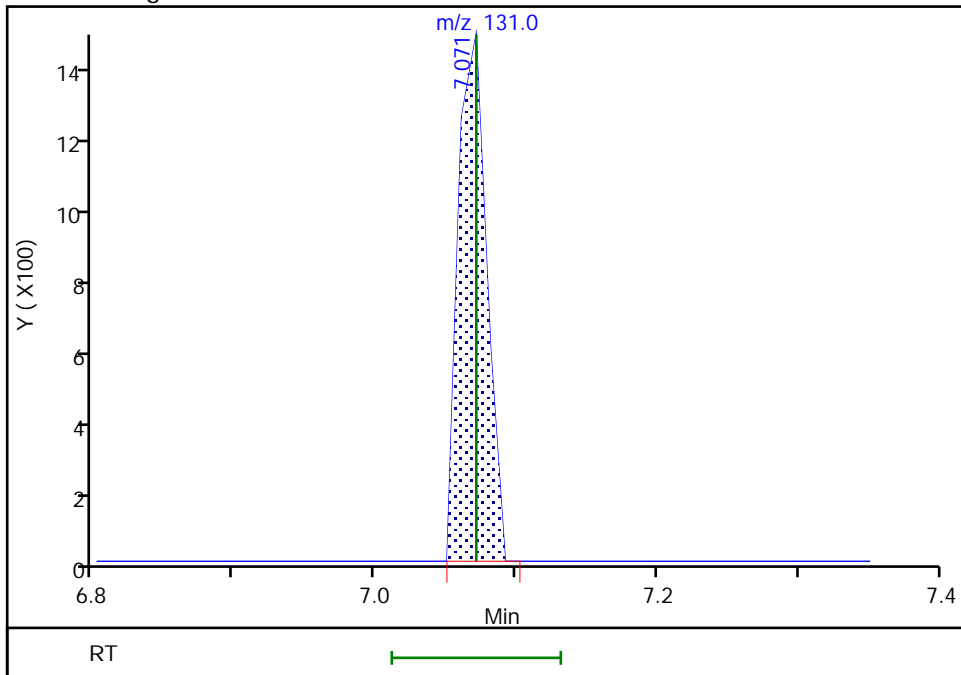
Not Detected  
Expected RT: 7.07

Processing Integration Results



Manual Integration Results

RT: 7.07  
Area: 2042  
Amount: 0.320285  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:37:41  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

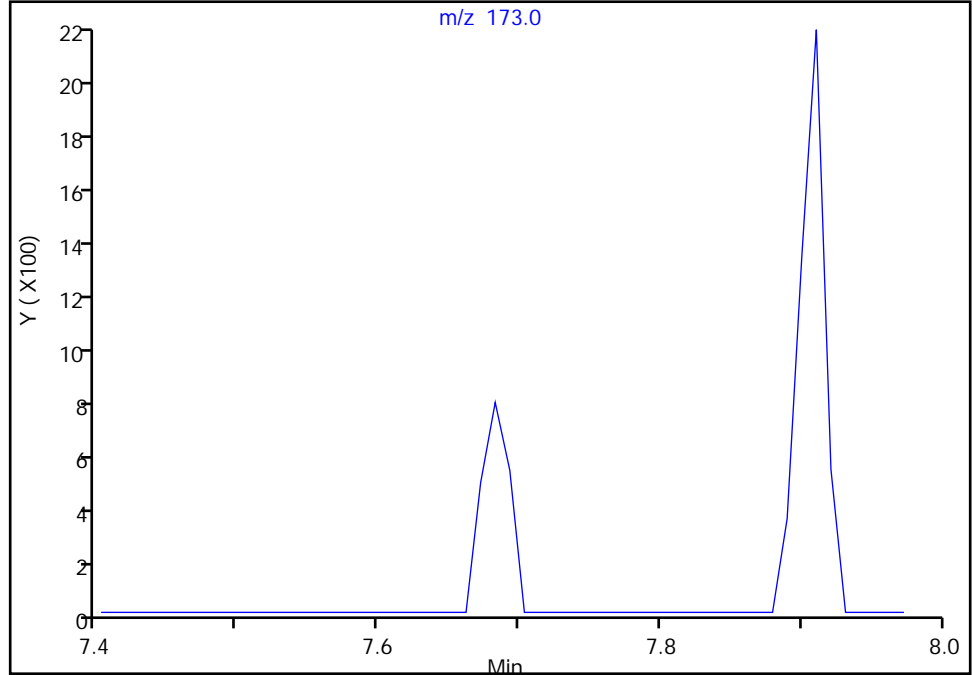
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Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

93 Bromoform, CAS: 75-25-2

Signal: 1

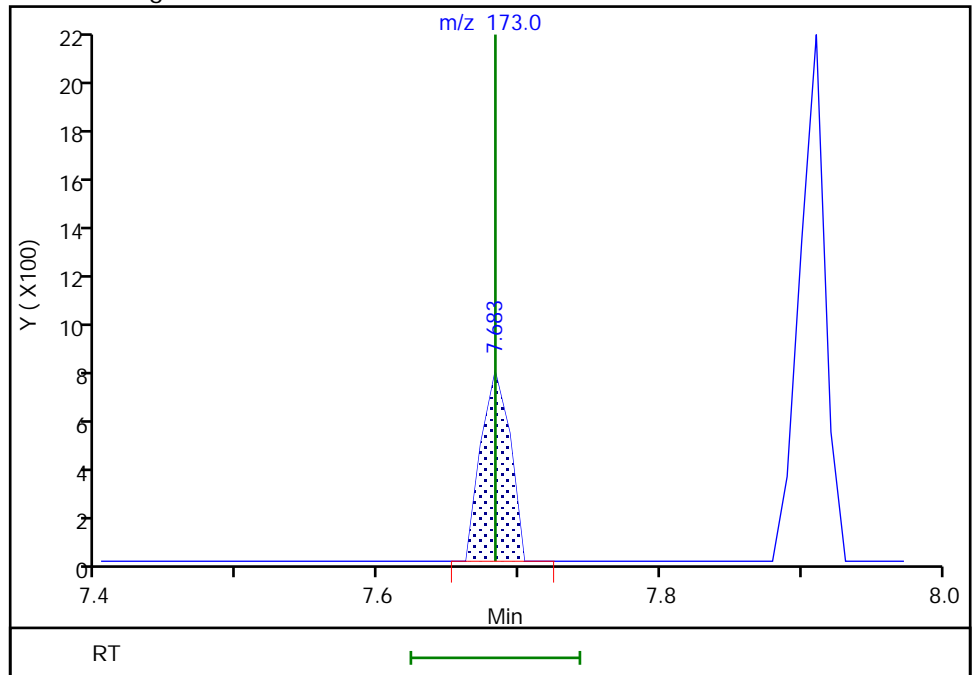
Not Detected  
Expected RT: 7.68

Processing Integration Results



Manual Integration Results

RT: 7.68  
Area: 1123  
Amount: 0.370314  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:38:02  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

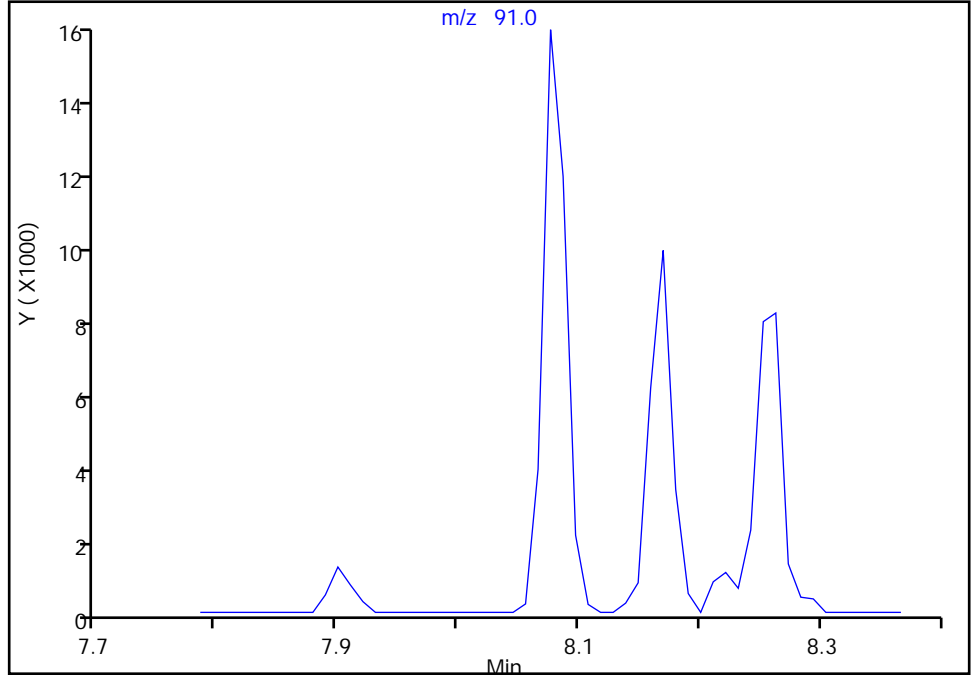
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

99 N-Propylbenzene, CAS: 103-65-1

Signal: 1

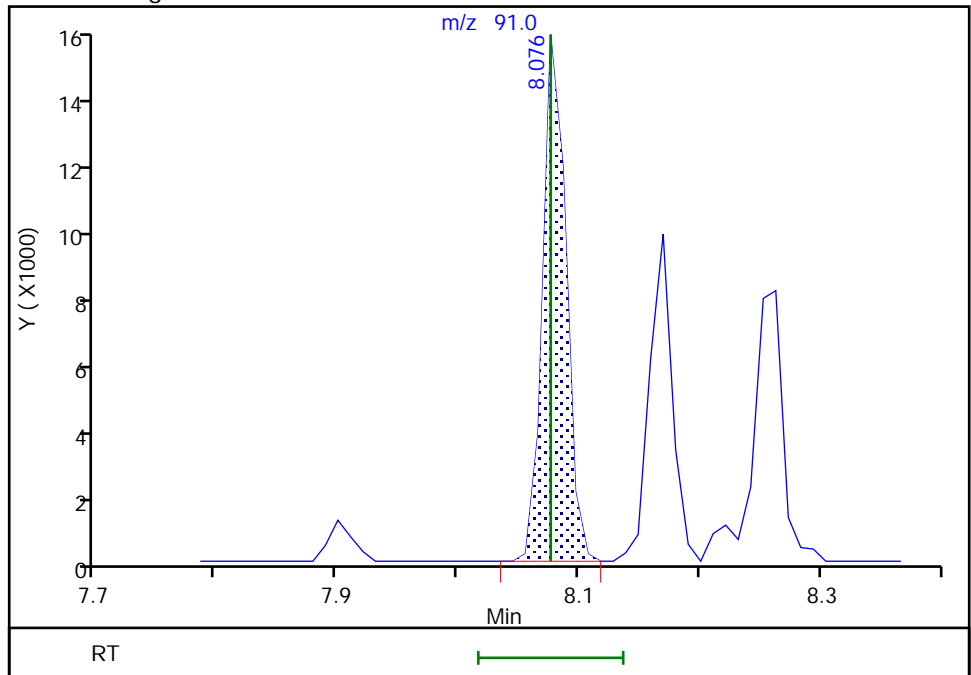
Not Detected  
Expected RT: 8.08

Processing Integration Results



Manual Integration Results

RT: 8.08  
Area: 21041  
Amount: 0.435711  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:38:22  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Euofins TestAmerica, Buffalo

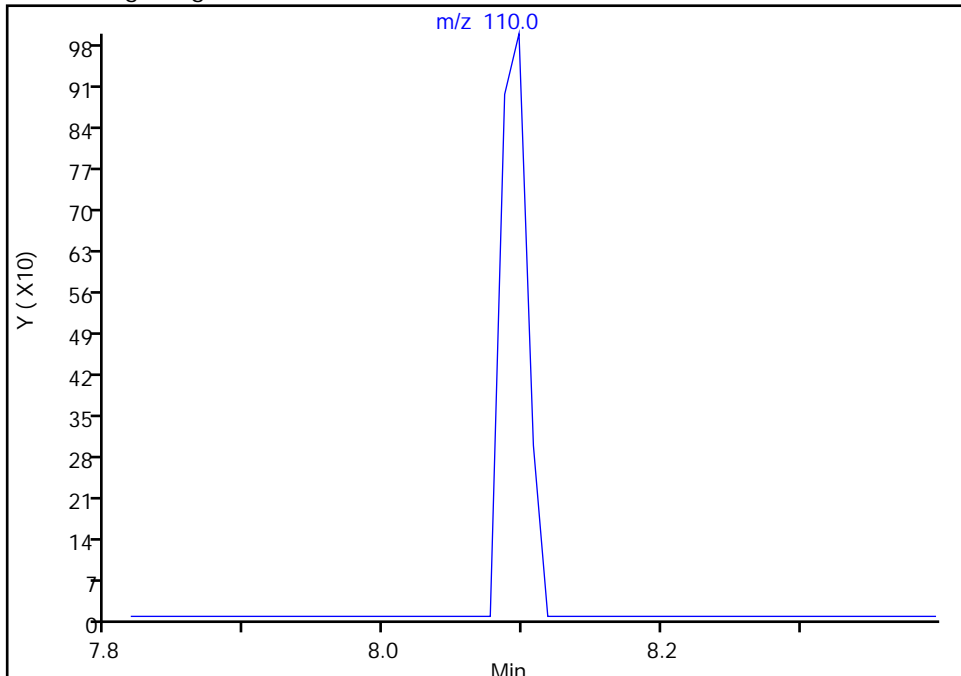
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

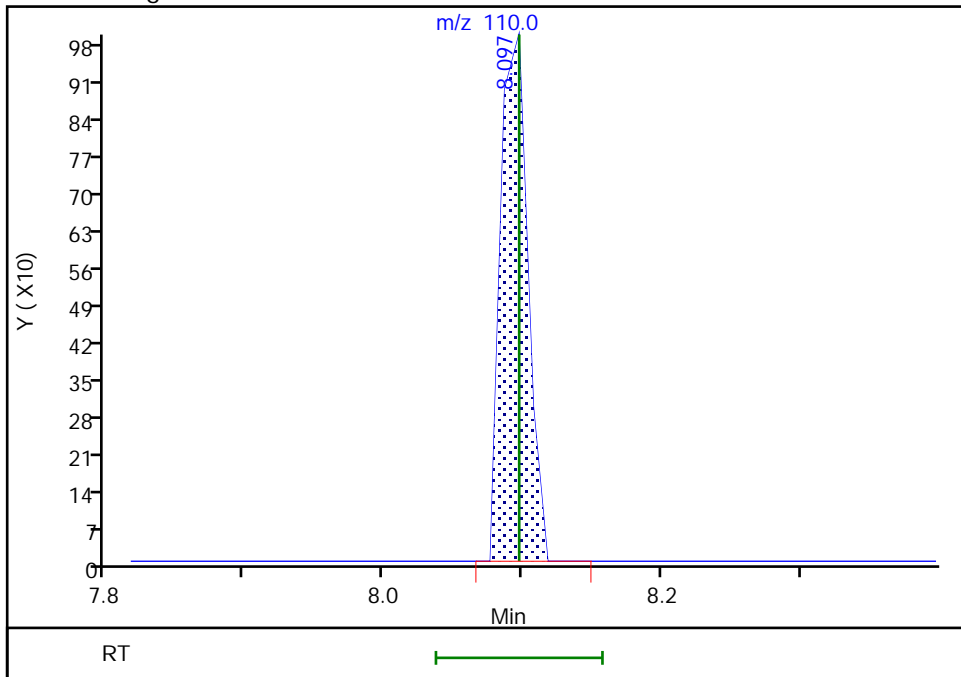
Not Detected  
Expected RT: 8.10

Processing Integration Results



RT: 8.10  
Area: 1360  
Amount: 0.365497  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:38:38  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

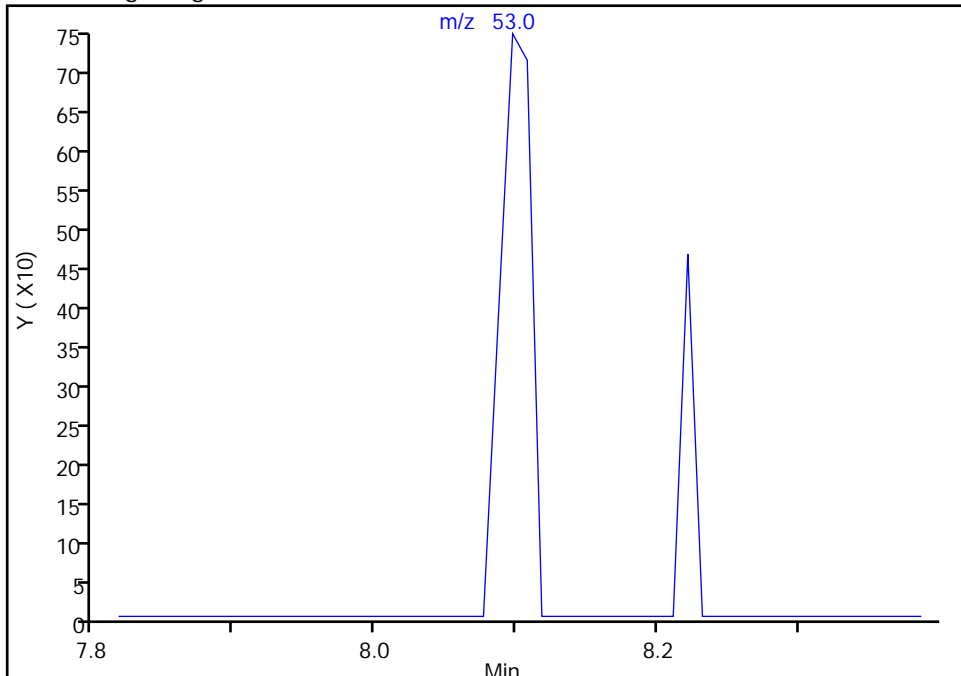
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

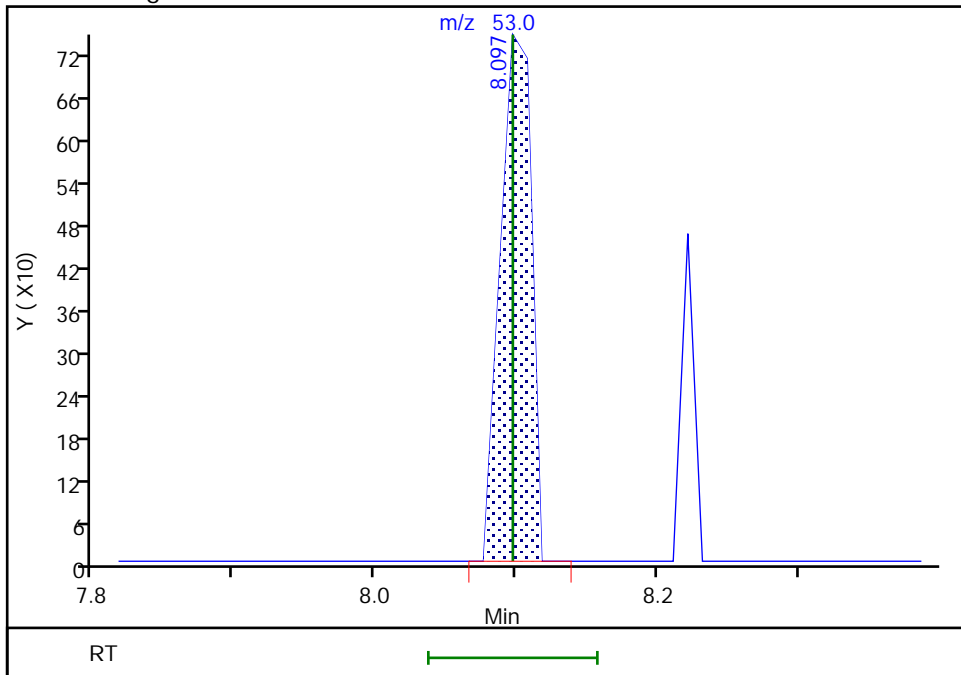
Not Detected  
Expected RT: 8.10

Processing Integration Results



RT: 8.10  
Area: 1140  
Amount: 0.364301  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:38:57  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography



Eurofins TestAmerica, Buffalo

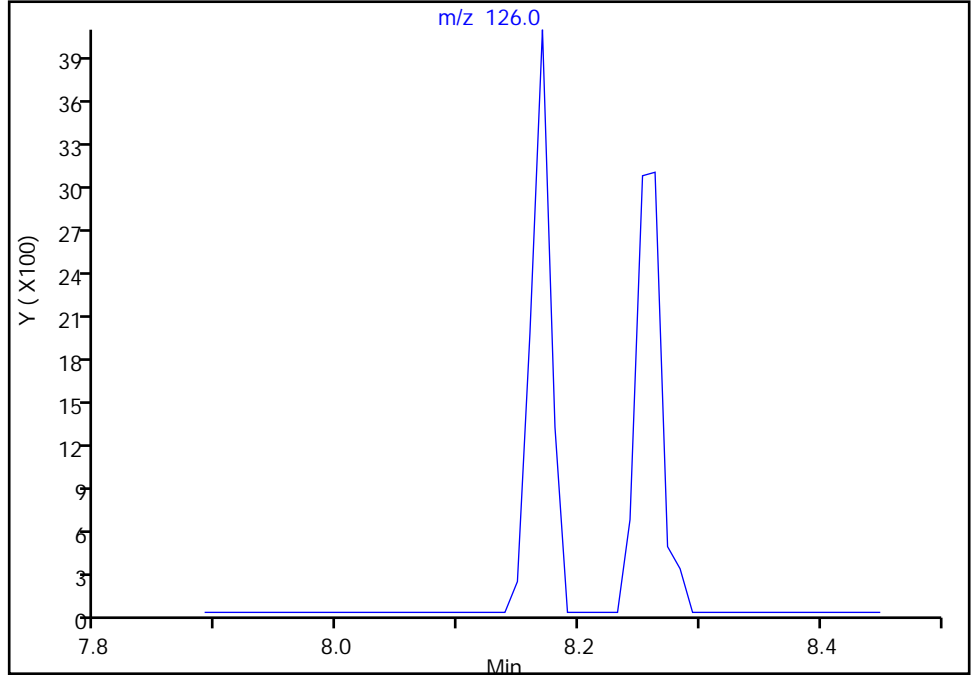
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

105 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

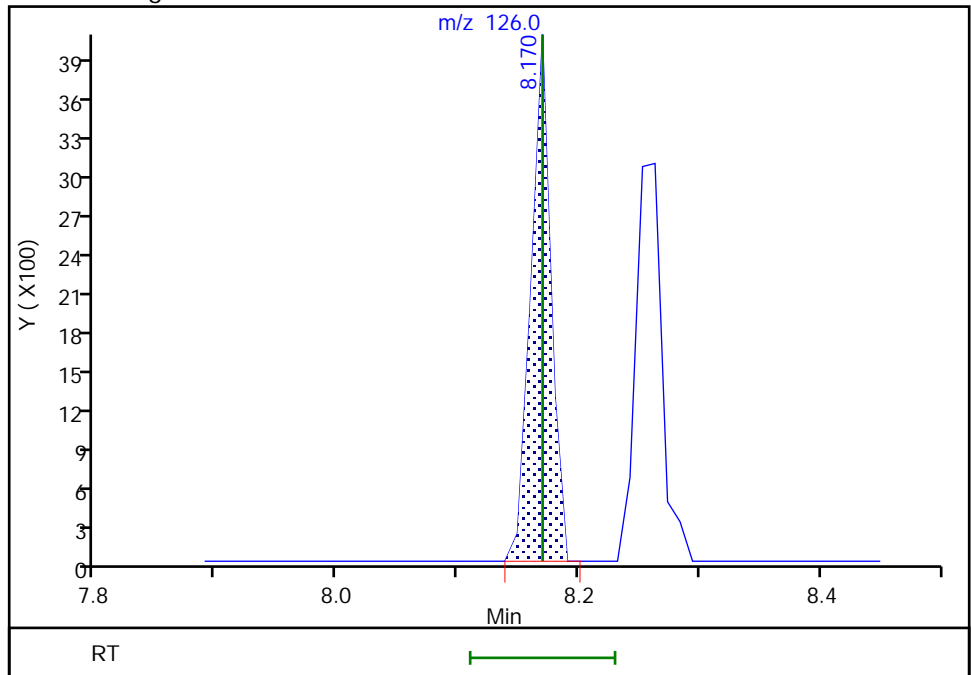
Not Detected  
Expected RT: 8.17

Processing Integration Results



Manual Integration Results

RT: 8.17  
Area: 4607  
Amount: 0.437667  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:39:11  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Euofins TestAmerica, Buffalo

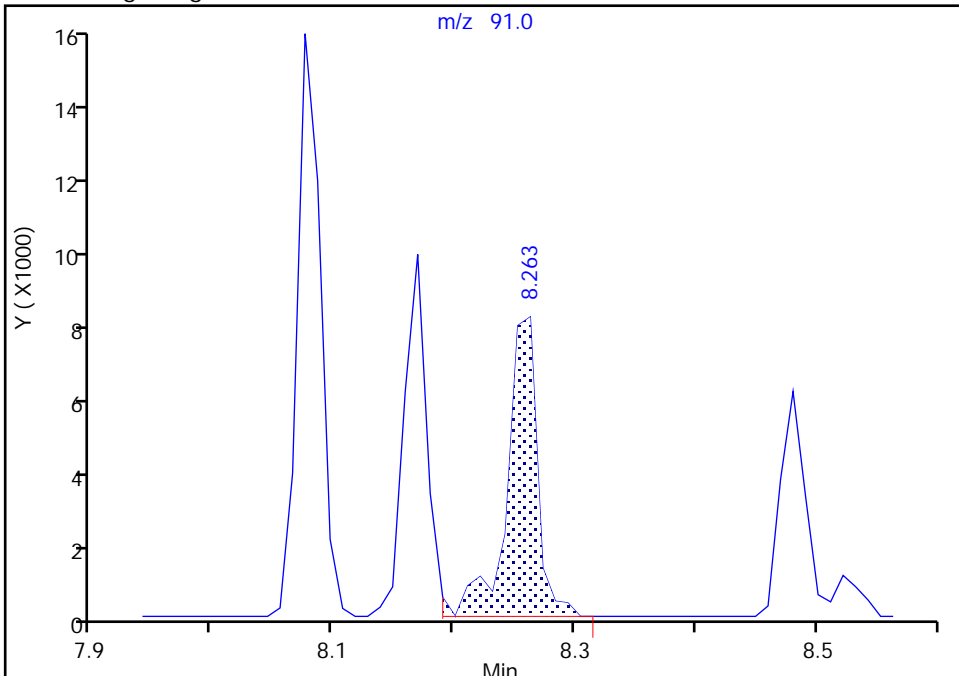
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

102 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

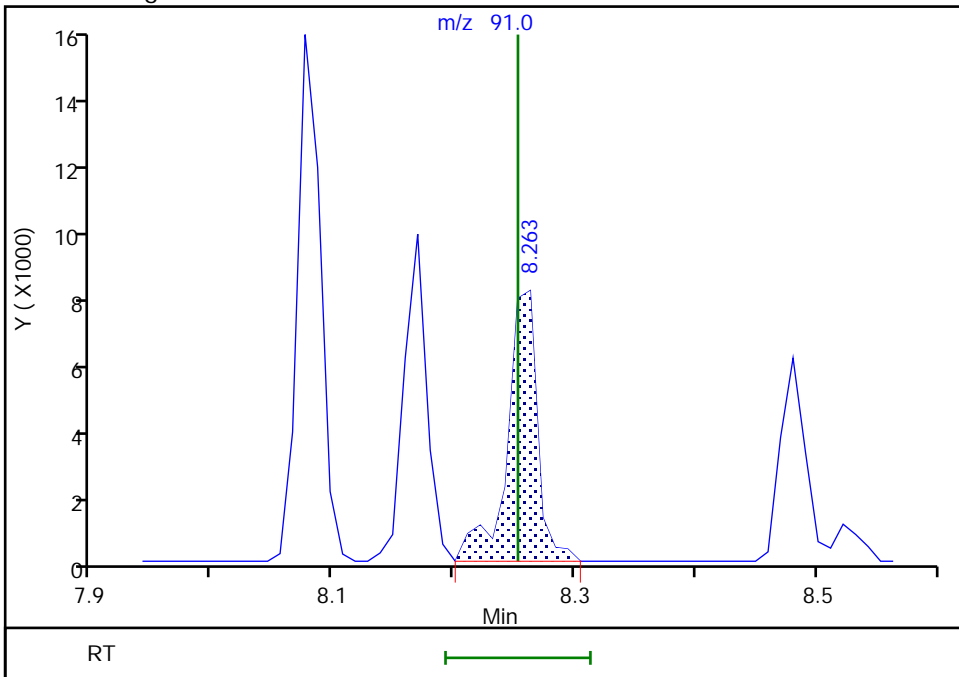
RT: 8.26  
Area: 14464  
Amount: 0.428783  
Amount Units: ug/L

Processing Integration Results



RT: 8.26  
Area: 14149  
Amount: 0.420673  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:39:36  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

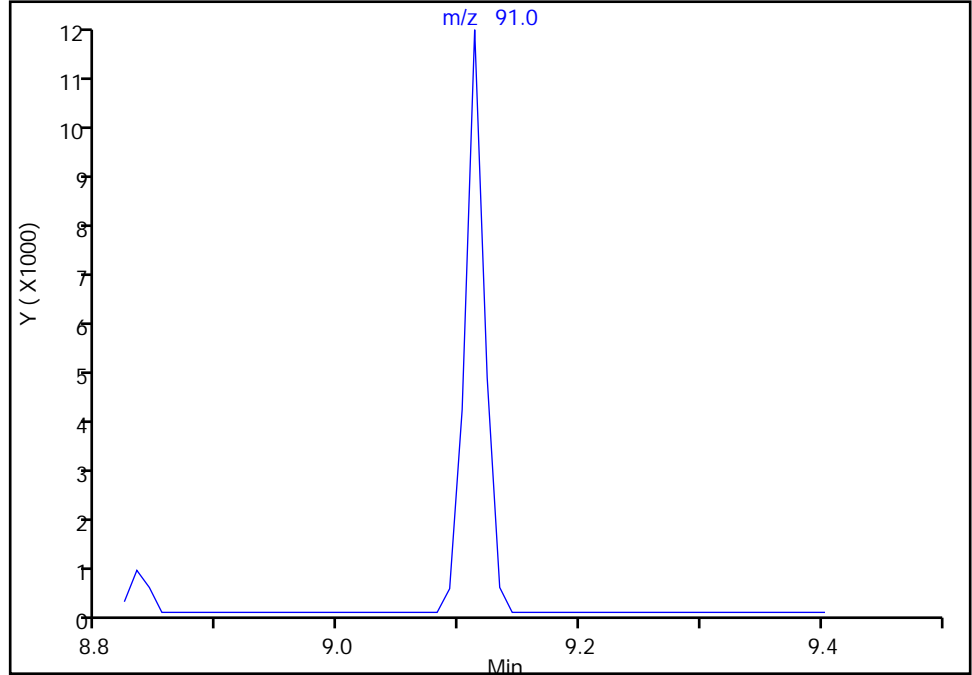
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Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

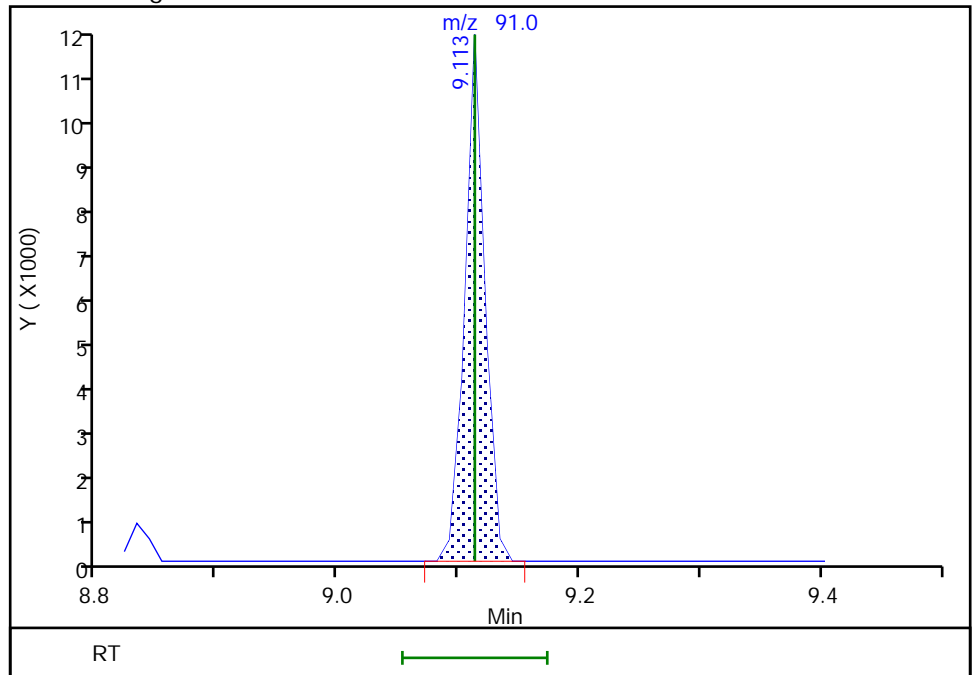
Not Detected  
Expected RT: 9.11

Processing Integration Results



Manual Integration Results

RT: 9.11  
Area: 13368  
Amount: 0.383309  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:39:53  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

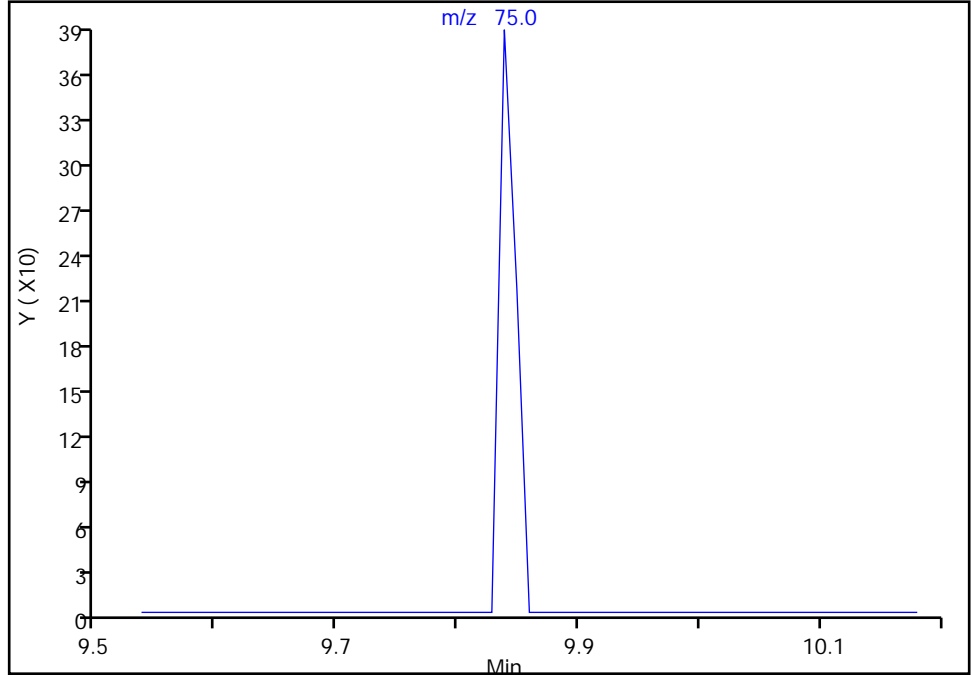
Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2787.D  
Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

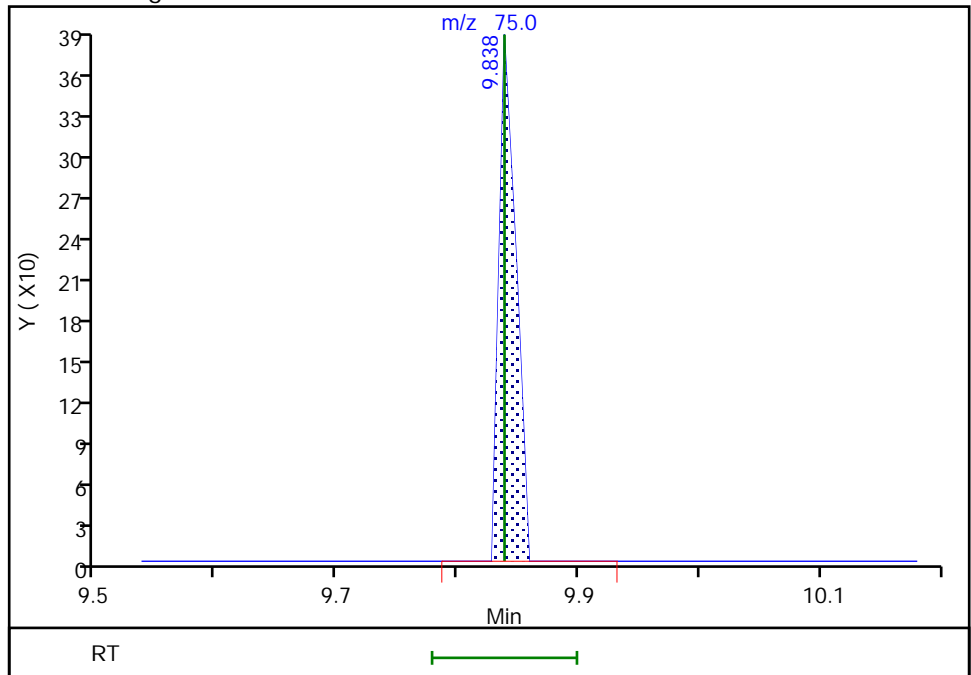
Not Detected  
Expected RT: 9.84

Processing Integration Results



RT: 9.84  
Area: 371  
Amount: 0.289428  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:40:07  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

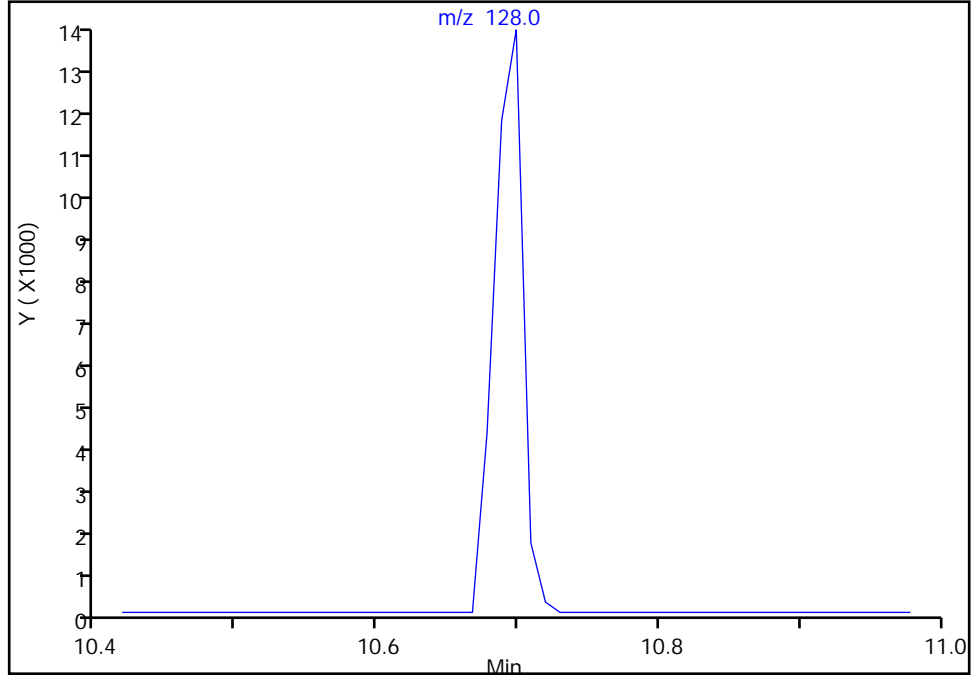
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Injection Date: 08-Jul-2019 14:46:30 Instrument ID: HP5975T  
Lims ID: IC 0.4  
Client ID:  
Operator ID: KN ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

121 Naphthalene, CAS: 91-20-3

Signal: 1

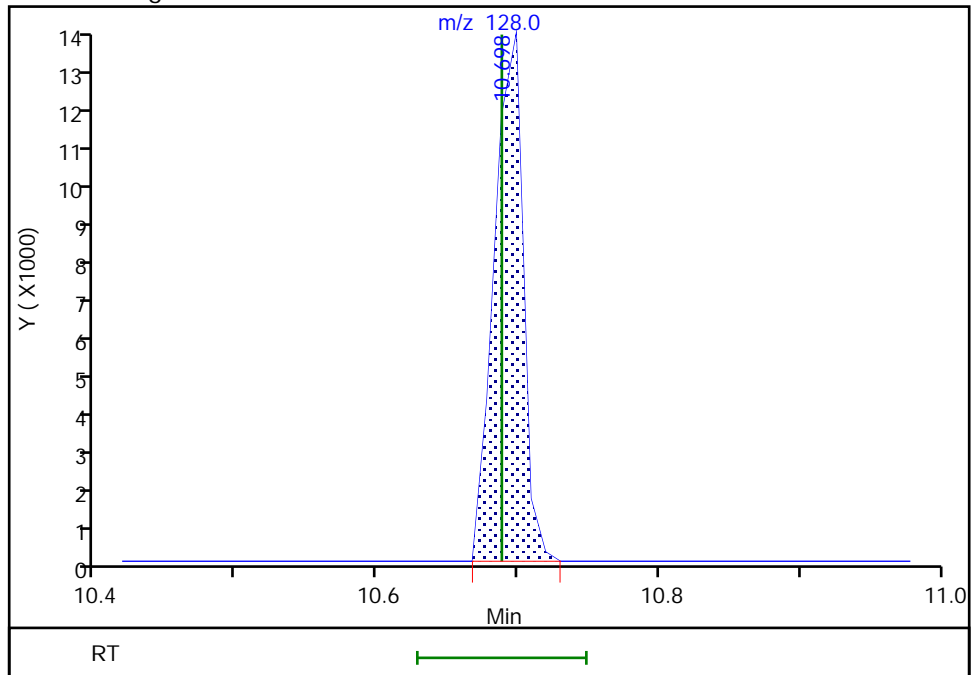
Not Detected  
Expected RT: 10.69

Processing Integration Results



Manual Integration Results

RT: 10.70  
Area: 19039  
Amount: 0.413993  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:40:17  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2788.D  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 08-Jul-2019 15:10:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic  
 Misc. Info.: 480-0082467-006  
 Operator ID: KN Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:50:02 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: farrellr

Date: 09-Jul-2019 08:44:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	160231	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	701850	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	389528	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.222	0.000	93	215285	25.0	24.3	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.460	0.010	0	249990	25.0	24.6	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.849	0.010	93	861593	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	282864	25.0	24.5	
11 Dichlorodifluoromethane	85	1.165	1.144	0.021	97	11650	1.00	1.09	
13 Chloromethane	50	1.299	1.289	0.010	98	11576	1.00	1.17	
151 Butadiene	54	1.372	1.361	0.011	84	9108	1.00	1.05	
14 Vinyl chloride	62	1.382	1.382	0.000	96	11567	1.00	1.14	
15 Bromomethane	94	1.621	1.620	0.000	91	8196	1.00	0.9730	M
16 Chloroethane	64	1.683	1.672	0.011	96	5918	1.00	0.8725	
18 Dichlorofluoromethane	67	1.890	1.890	0.000	95	18882	1.00	1.12	M
17 Trichlorofluoromethane	101	1.900	1.890	0.010	69	19046	1.00	1.11	
19 Ethyl ether	59	2.139	2.128	0.011	82	9783	1.00	1.24	
21 Acrolein	56	2.304	2.304	0.000	97	8573	5.00	6.09	
20 1,1,2-Trichloro-1,2,2-trif	101	2.336	2.335	0.001	78	10161	1.00	1.30	
22 1,1-Dichloroethene	96	2.336	2.335	0.001	97	8857	1.00	1.21	
23 Acetone	43	2.460	2.449	0.011	100	12724	5.00	5.14	M
24 Iodomethane	142	2.491	2.481	0.010	98	17748	1.00	1.10	
25 Carbon disulfide	76	2.512	2.512	0.000	98	28418	1.00	1.17	
27 3-Chloro-1-propene	41	2.667	2.667	0.000	81	11888	1.00	1.18	
28 Methyl acetate	43	2.719	2.709	0.010	95	15917	2.00	2.40	
30 Methylene Chloride	84	2.812	2.802	0.010	88	14403	1.00	1.17	
31 2-Methyl-2-propanol	59	2.999	2.978	0.021	47	10677	10.0	9.97	
33 Methyl tert-butyl ether	73	2.999	2.988	0.011	96	27425	1.00	1.10	
32 trans-1,2-Dichloroethene	96	2.999	2.999	0.000	97	10229	1.00	1.19	
34 Acrylonitrile	53	3.061	3.061	0.000	98	38634	10.0	10.7	
35 Hexane	57	3.165	3.165	0.000	90	14364	1.00	1.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.372	3.361	0.011	97	14933	1.00	1.06	
39 Vinyl acetate	43	3.413	3.403	0.010	97	25454	2.00	1.91	
42 2,2-Dichloropropane	77	3.817	3.807	0.010	85	13471	1.00	1.19	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	78	11140	1.00	1.15	
44 2-Butanone (MEK)	43	3.869	3.859	0.010	98	22273	5.00	5.36	
47 Chlorobromomethane	128	4.025	4.025	0.000	88	5670	1.00	1.05	
48 Tetrahydrofuran	42	4.045	4.035	0.010	75	6562	2.00	2.12	
50 Chloroform	83	4.097	4.097	0.000	93	17485	1.00	1.17	
51 1,1,1-Trichloroethane	97	4.191	4.180	0.011	86	11410	1.00	1.05	
52 Cyclohexane	56	4.191	4.180	0.011	84	15088	1.00	1.14	
54 1,1-Dichloropropene	75	4.305	4.294	0.011	93	12065	1.00	1.11	
53 Carbon tetrachloride	117	4.294	4.294	0.000	66	9432	1.00	1.14	
55 Benzene	78	4.470	4.470	0.000	47	36769	1.00	1.10	
56 Isobutyl alcohol	43	4.501	4.491	0.010	93	6296	25.0	22.0	
57 1,2-Dichloroethane	62	4.522	4.522	0.000	97	12904	1.00	1.09	
59 n-Heptane	43	4.605	4.605	0.000	84	14716	1.00	1.24	
60 Trichloroethene	95	4.957	4.947	0.010	93	9906	1.00	1.10	
62 Methylcyclohexane	83	5.040	5.040	0.000	85	16578	1.00	1.16	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	90	8606	1.00	1.05	
65 Dibromomethane	93	5.248	5.247	0.001	88	5768	1.00	1.03	
66 1,4-Dioxane	88	5.258	5.258	0.000	37	2395	20.0	16.0	Ma
67 Dichlorobromomethane	83	5.372	5.372	0.000	95	7746	1.00	0.9487	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	89	6417	1.00	1.05	
71 cis-1,3-Dichloropropene	75	5.683	5.683	0.000	95	12264	1.00	1.01	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	46230	5.00	5.01	
73 Toluene	92	5.911	5.900	0.011	98	26281	1.00	1.16	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	94	11585	1.00	1.02	
77 Ethyl methacrylate	69	6.149	6.149	0.000	87	9402	1.00	0.9045	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	90	7439	1.00	1.09	
79 Tetrachloroethene	166	6.305	6.305	0.000	95	10481	1.00	1.05	
80 1,3-Dichloropropane	76	6.387	6.387	0.000	88	14818	1.00	1.05	a
81 2-Hexanone	43	6.429	6.429	0.000	94	29757	5.00	4.69	
82 Chlorodibromomethane	129	6.564	6.564	0.000	86	5510	1.00	1.00	
83 Ethylene Dibromide	107	6.647	6.647	0.001	94	8195	1.00	0.9694	
86 Chlorobenzene	112	6.999	6.999	0.000	96	28473	1.00	1.09	
88 Ethylbenzene	91	7.061	7.061	0.000	98	46359	1.00	1.10	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	85	6584	1.00	1.00	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	16977	1.00	1.00	
91 o-Xylene	106	7.465	7.465	0.000	95	17559	1.00	1.03	
92 Styrene	104	7.496	7.486	0.010	92	29534	1.00	1.03	
93 Bromoform	173	7.683	7.683	0.000	95	3047	1.00	0.9748	a
95 Isopropylbenzene	105	7.755	7.755	0.000	95	47477	1.00	1.13	
97 Bromobenzene	156	8.025	8.025	0.000	90	11878	1.00	1.02	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	96	10974	1.00	1.01	
99 N-Propylbenzene	91	8.077	8.077	0.000	99	56787	1.00	1.16	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	0	3526	1.00	0.9364	M
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	71	3272	1.00	1.03	
105 2-Chlorotoluene	126	8.170	8.170	0.000	98	12204	1.00	1.15	
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	95	40708	1.00	1.14	
102 4-Chlorotoluene	91	8.263	8.253	0.010	96	38253	1.00	1.12	
106 tert-Butylbenzene	134	8.481	8.481	0.000	91	9297	1.00	1.10	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	96	40902	1.00	1.10	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	93	52008	1.00	1.13	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	97	43298	1.00	1.07	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	94	24392	1.00	1.07	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	95	25197	1.00	1.09	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	39330	1.00	1.11	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	98	25017	1.00	1.11	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	0	1125	1.00	0.8673	M
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	94	17042	1.00	1.04	
120 Hexachlorobutadiene	225	10.585	10.584	0.001	93	8514	1.00	1.22	
121 Naphthalene	128	10.688	10.688	0.000	96	51087	1.00	1.10	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	96	18214	1.00	1.10	
S 123 1,3-Dichloropropene, Total	1				0			2.03	
S 125 Total BTEX	1				0			5.39	
S 126 Xylenes, Total	1				0			2.04	
S 124 1,2-Dichloroethene, Total	1				0			2.33	

### QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

8260 CORP mix\_00159

Amount Added: 1.00

Units: uL

GAS CORP mix\_00349

Amount Added: 1.00

Units: uL

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00222

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2788.D

Injection Date: 08-Jul-2019 15:10:30

Instrument ID: HP5975T

Operator ID: KN

Lims ID: IC

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

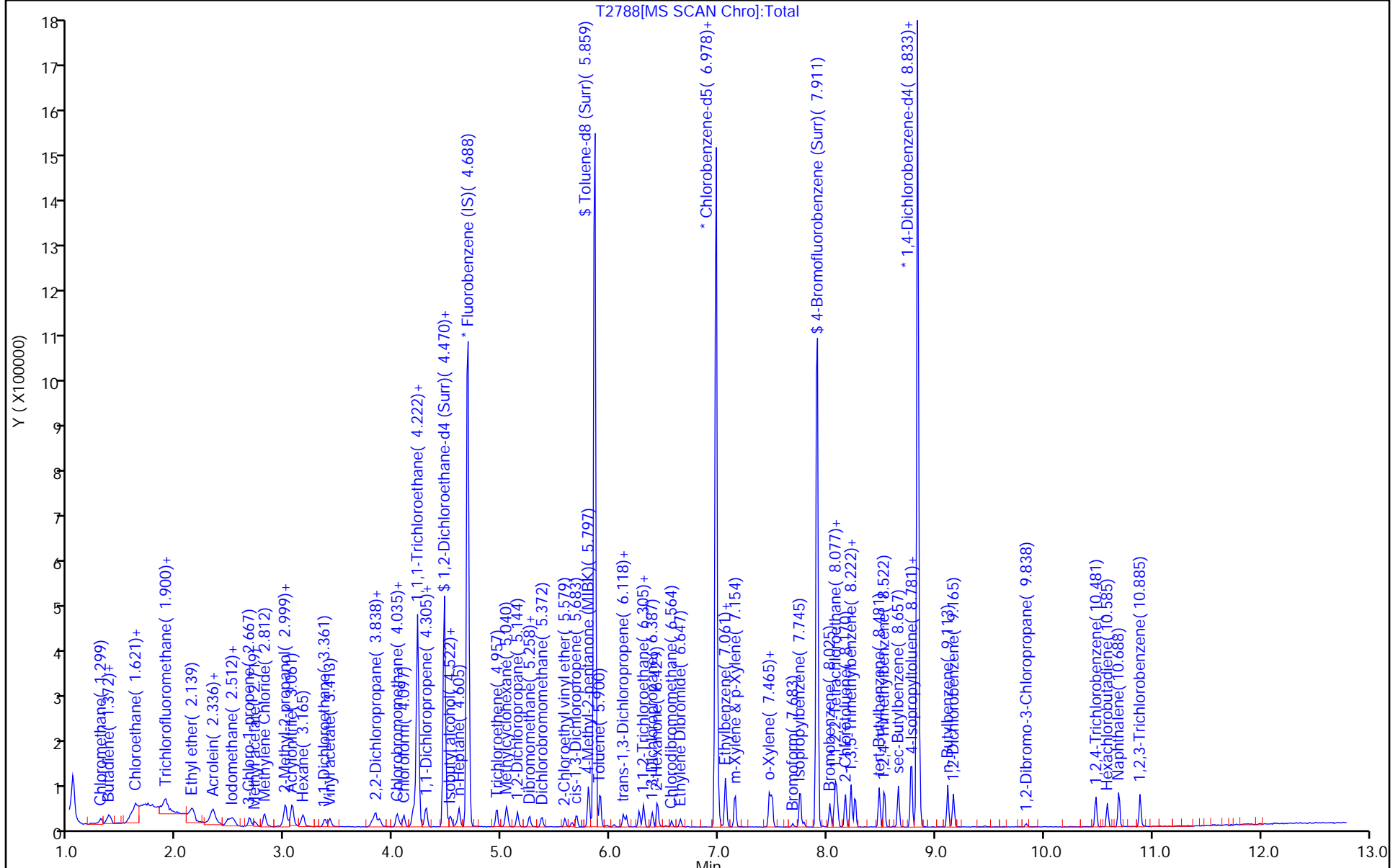
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

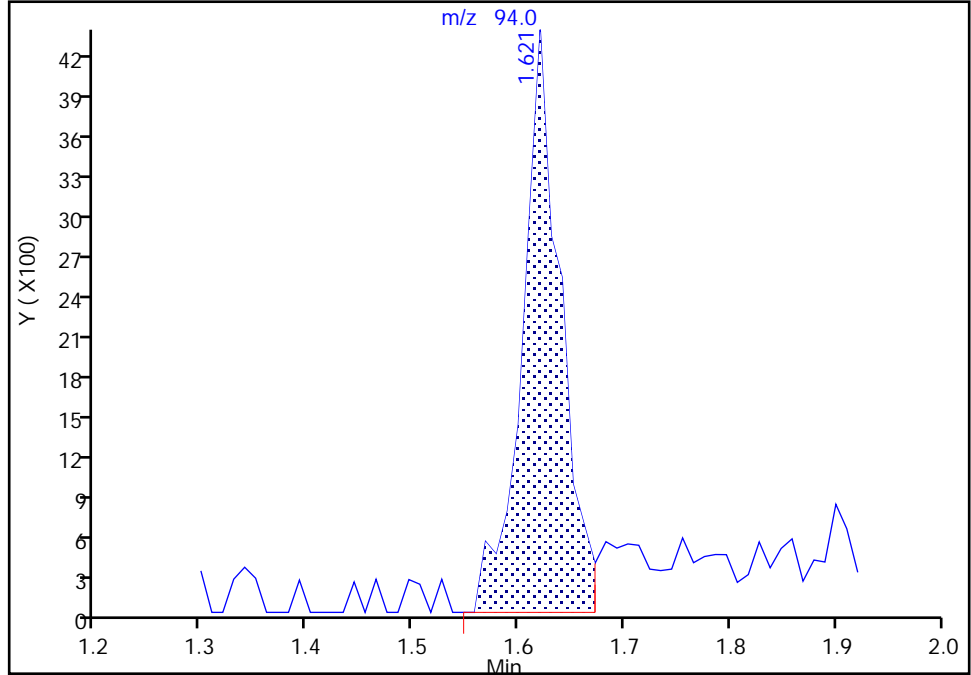
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Injection Date: 08-Jul-2019 15:10:30 Instrument ID: HP5975T  
Lims ID: IC  
Client ID:  
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

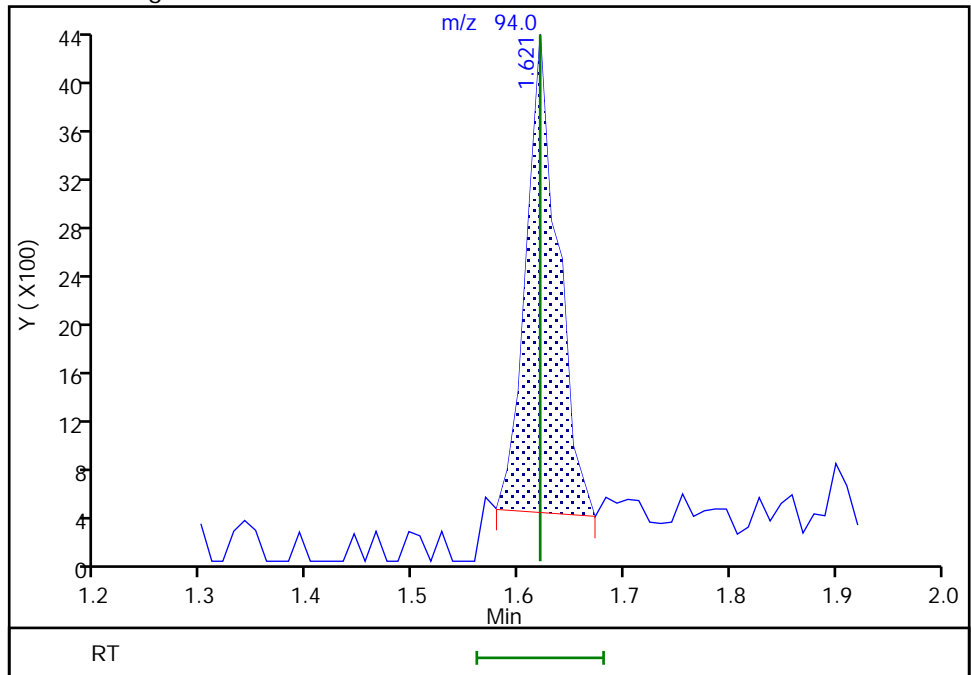
RT: 1.62  
Area: 11008  
Amount: 1.217255  
Amount Units: ug/L

Processing Integration Results



RT: 1.62  
Area: 8196  
Amount: 0.973035  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:05:23  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

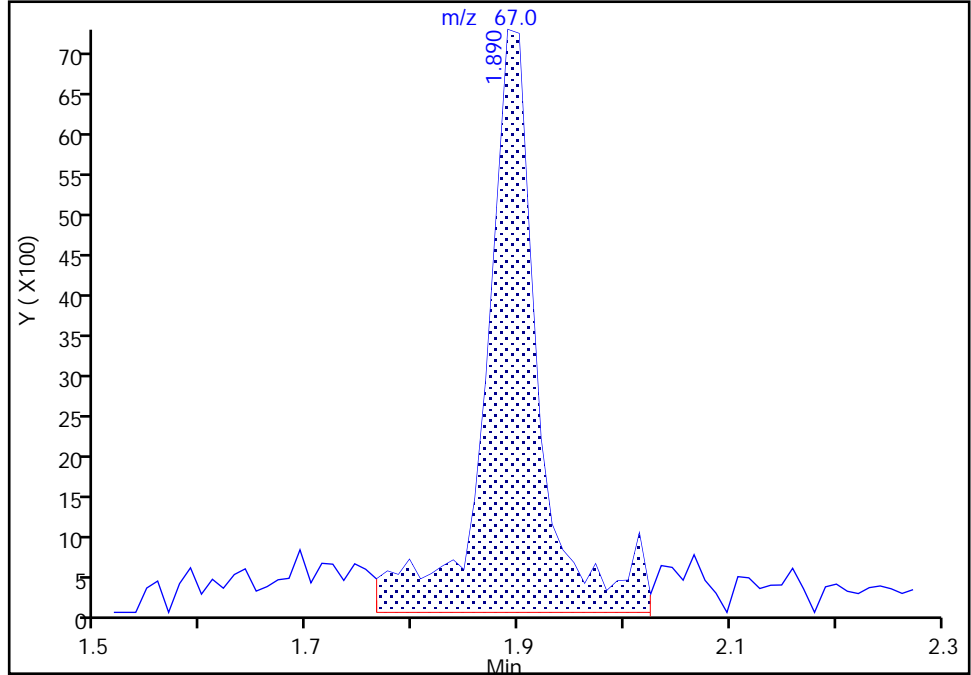
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Injection Date: 08-Jul-2019 15:10:30 Instrument ID: HP5975T  
Lims ID: IC  
Client ID:  
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

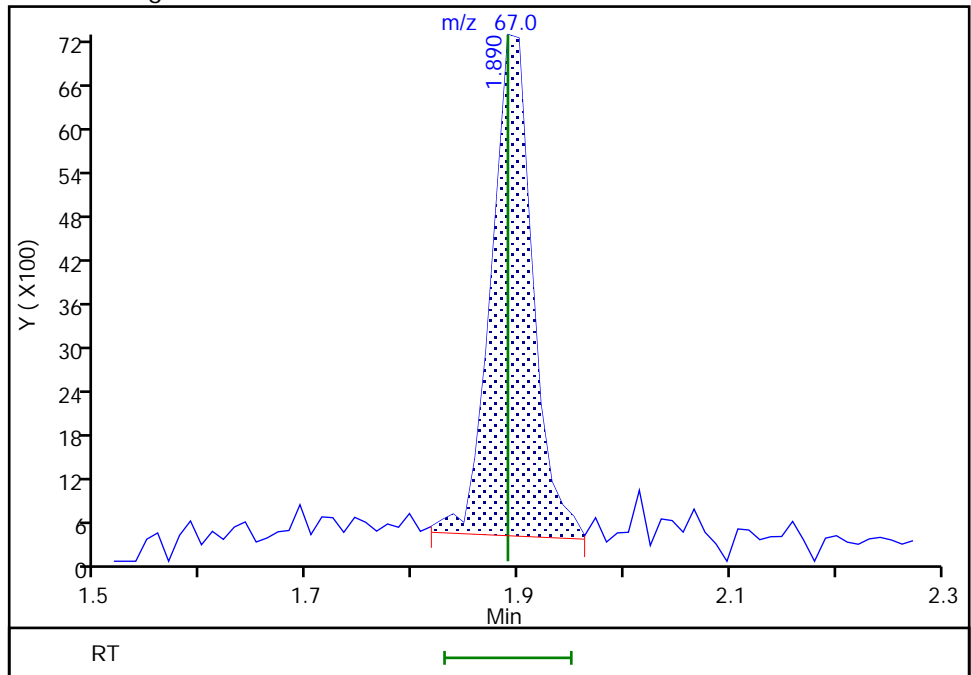
RT: 1.89  
Area: 25464  
Amount: 1.038502  
Amount Units: ug/L

Processing Integration Results



RT: 1.89  
Area: 18882  
Amount: 1.121936  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:05:36  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

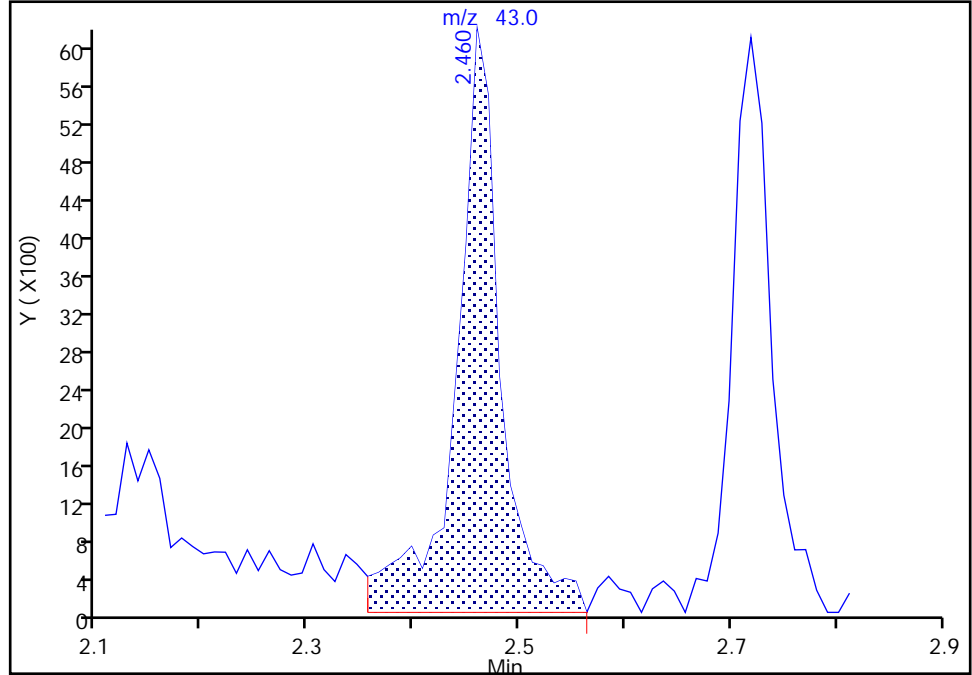
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Injection Date: 08-Jul-2019 15:10:30 Instrument ID: HP5975T  
Lims ID: IC  
Client ID:  
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

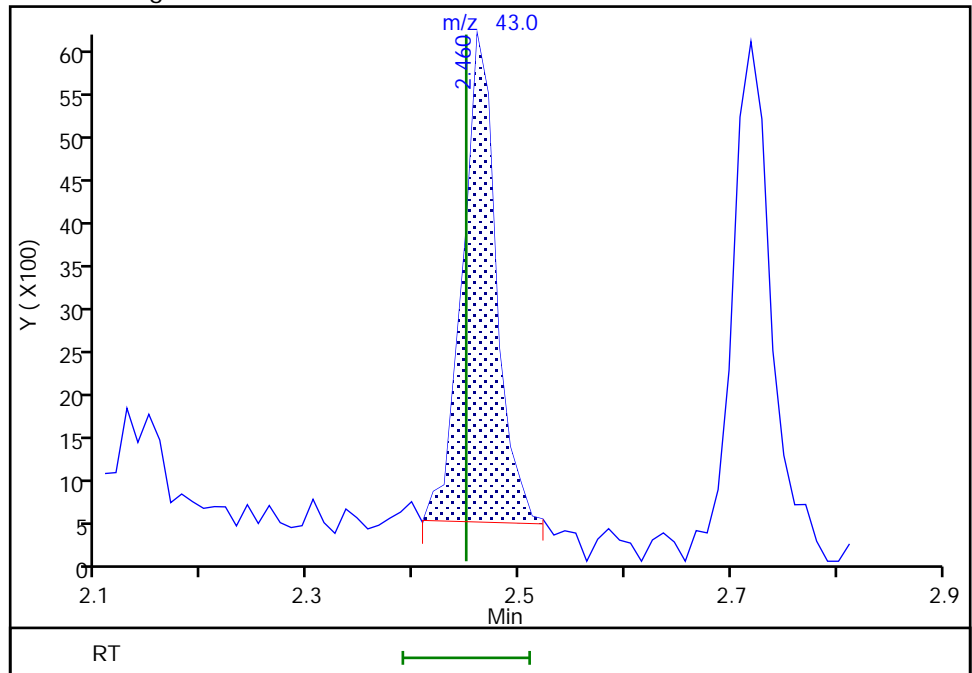
RT: 2.46  
Area: 18380  
Amount: 5.918741  
Amount Units: ug/L

Processing Integration Results



RT: 2.46  
Area: 12724  
Amount: 5.139133  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:07:30  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

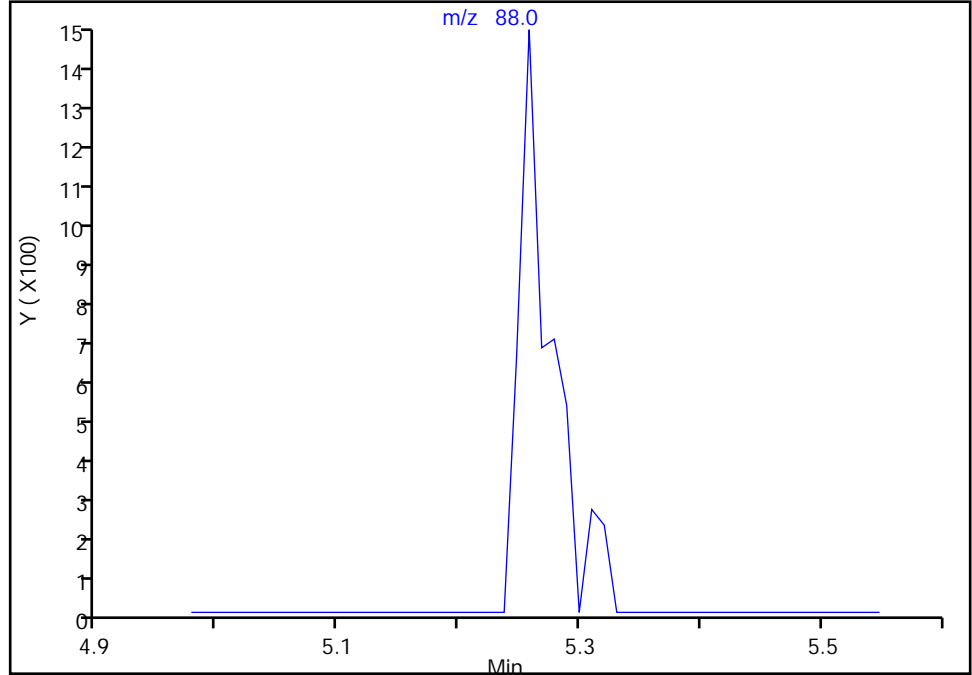
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2788.D  
Injection Date: 08-Jul-2019 15:10:30 Instrument ID: HP5975T  
Lims ID: IC  
Client ID:  
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

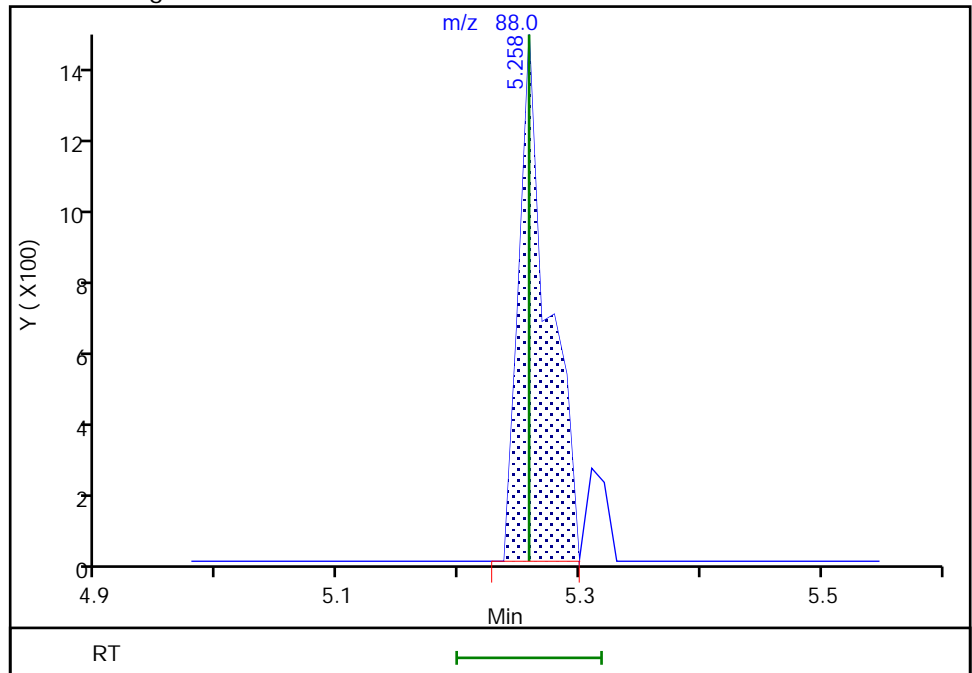
Not Detected  
Expected RT: 5.26

Processing Integration Results



Manual Integration Results

RT: 5.26  
Area: 2395  
Amount: 16.042701  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:42:31  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

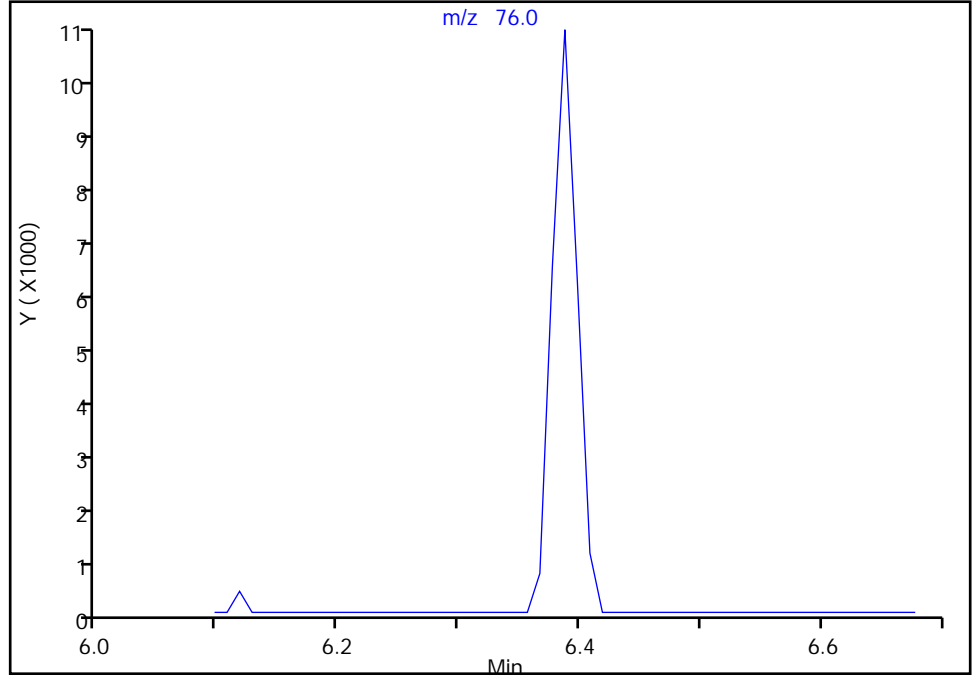
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2788.D  
Injection Date: 08-Jul-2019 15:10:30 Instrument ID: HP5975T  
Lims ID: IC  
Client ID:  
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

80 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

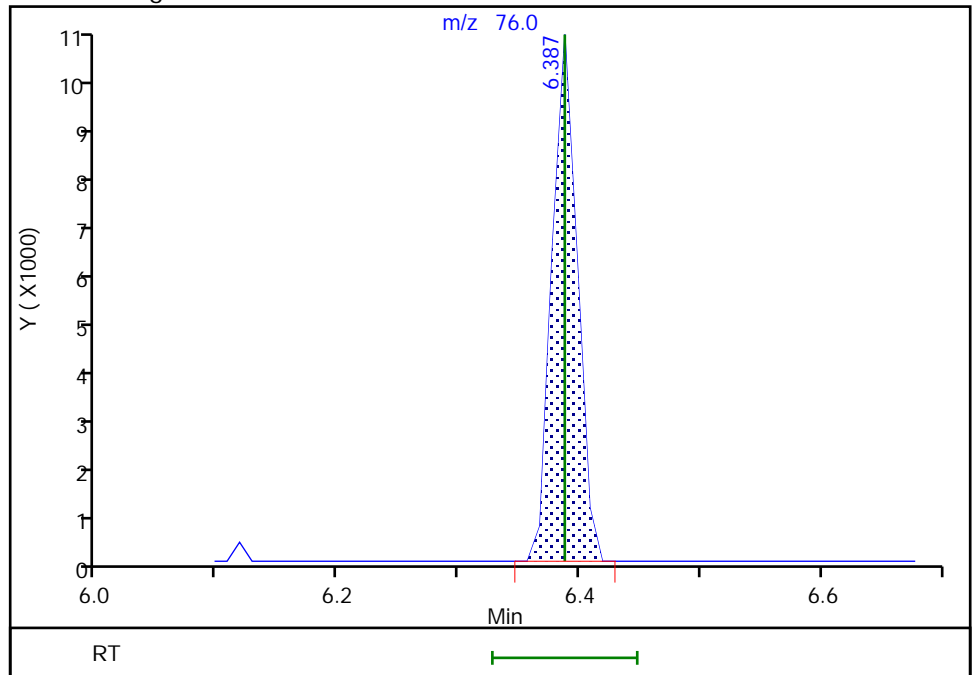
Not Detected  
Expected RT: 6.39

Processing Integration Results



Manual Integration Results

RT: 6.39  
Area: 14818  
Amount: 1.050697  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:42:46  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

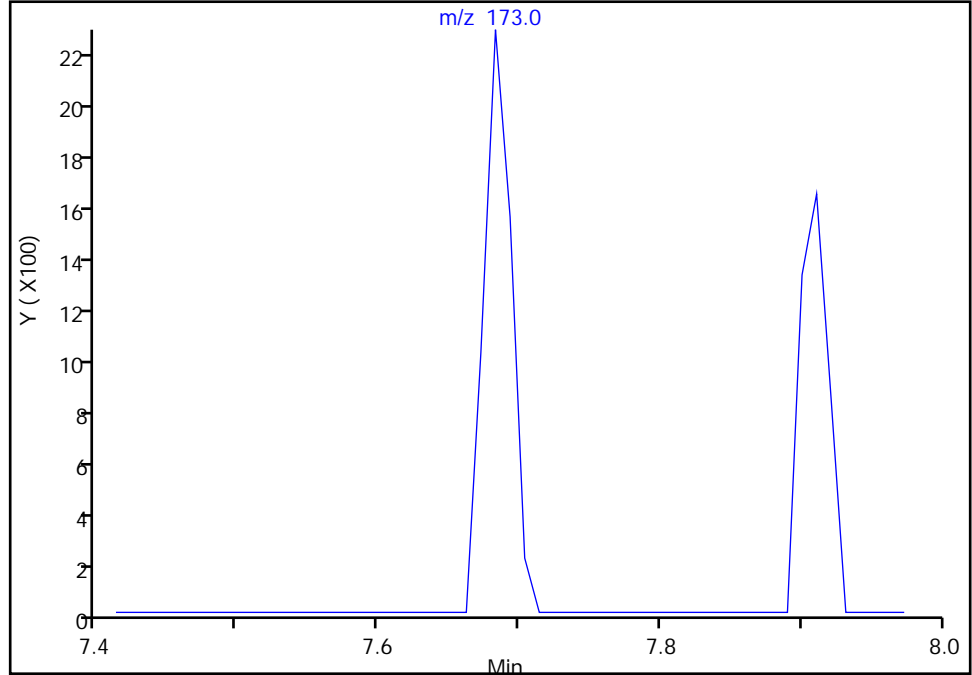
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Injection Date: 08-Jul-2019 15:10:30 Instrument ID: HP5975T  
Lims ID: IC  
Client ID:  
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

93 Bromoform, CAS: 75-25-2

Signal: 1

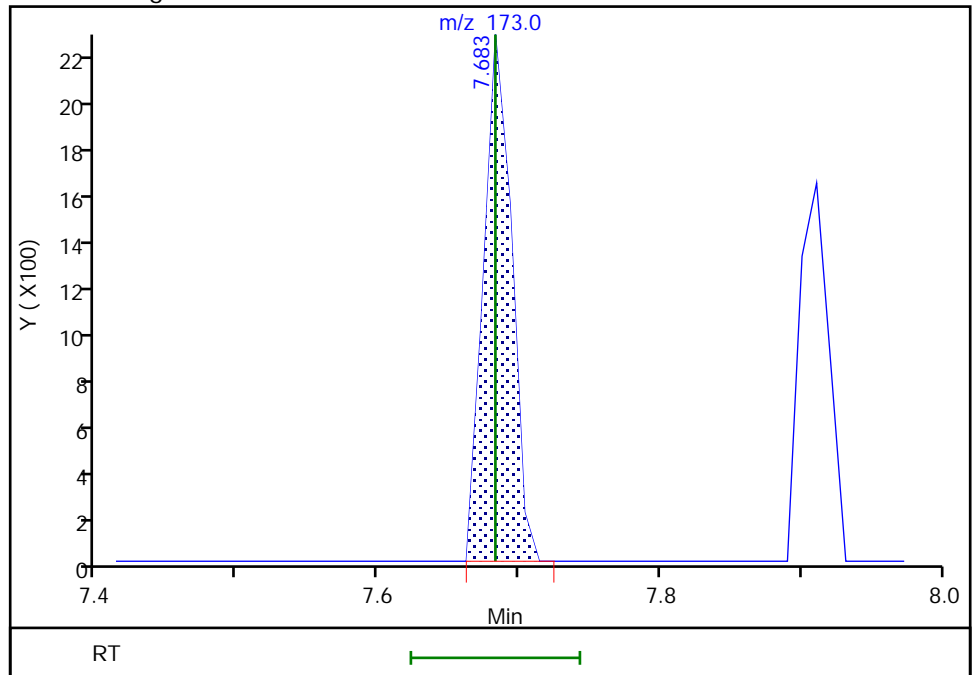
Not Detected  
Expected RT: 7.68

Processing Integration Results



Manual Integration Results

RT: 7.68  
Area: 3047  
Amount: 0.974832  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:43:11  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

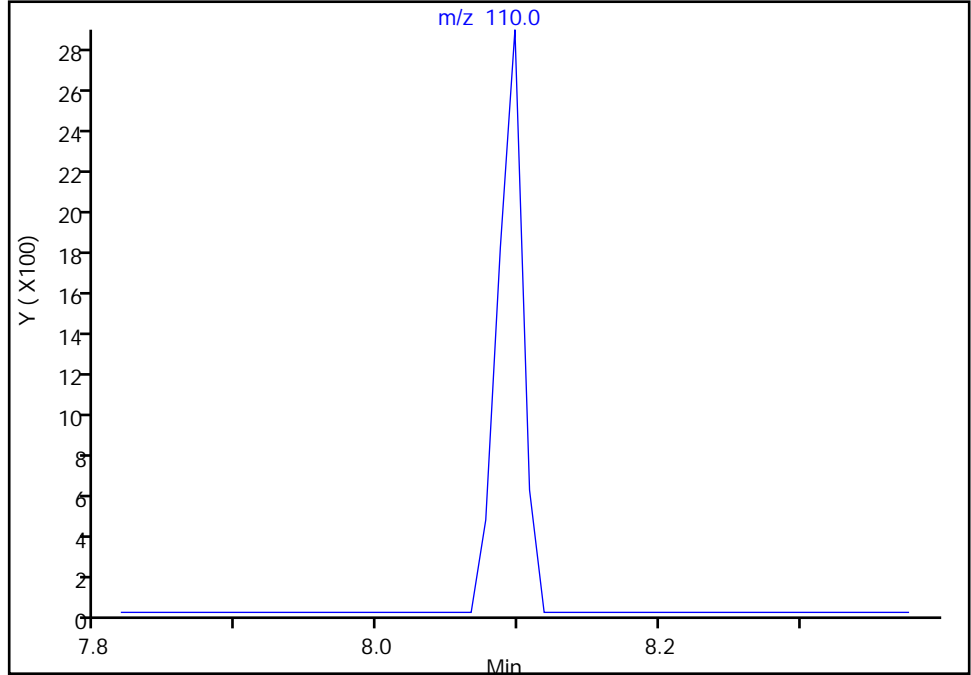
Eurofins TestAmerica, Buffalo

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Injection Date: 08-Jul-2019 15:10:30 Instrument ID: HP5975T  
Lims ID: IC  
Client ID:  
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4  
Signal: 1

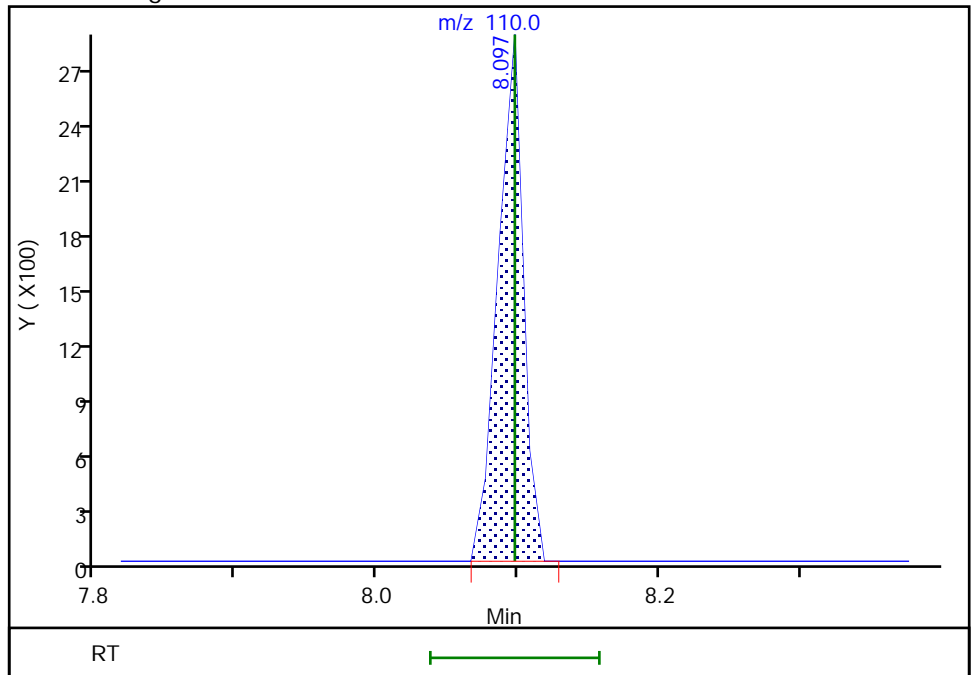
Not Detected  
Expected RT: 8.10

Processing Integration Results



RT: 8.10  
Area: 3526  
Amount: 0.936404  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:43:36  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography



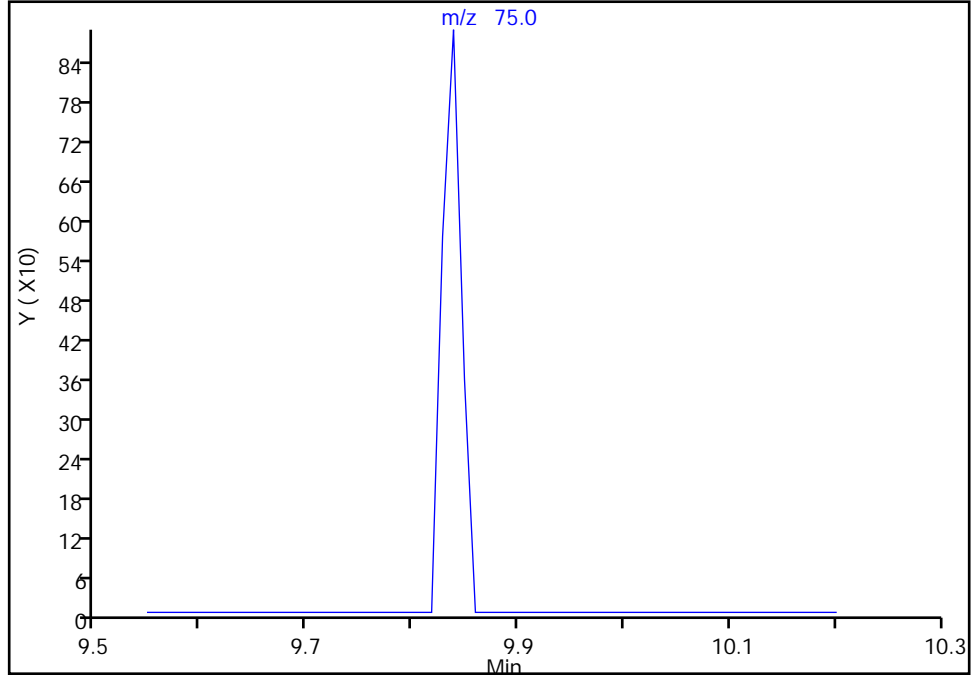
Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2788.D  
Injection Date: 08-Jul-2019 15:10:30 Instrument ID: HP5975T  
Lims ID: IC  
Client ID:  
Operator ID: KN ALS Bottle#: 6 Worklist Smp#: 6  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

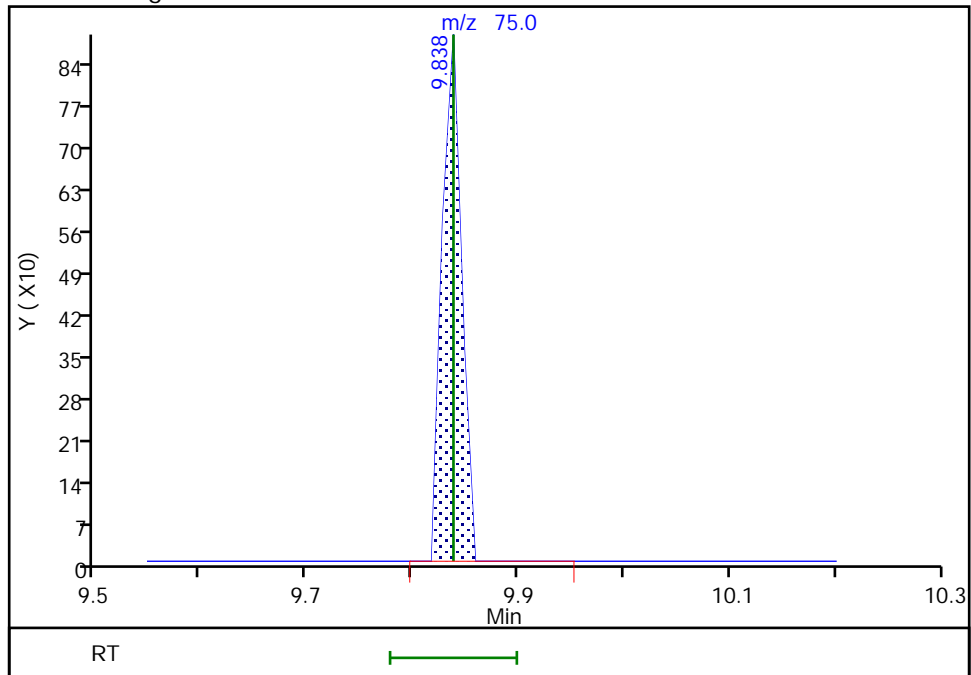
Not Detected  
Expected RT: 9.84

Processing Integration Results



Manual Integration Results

RT: 9.84  
Area: 1125  
Amount: 0.867271  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:44:30  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2789.D  
 Lims ID: IC 2  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 08-Jul-2019 15:35:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 2  
 Misc. Info.: 480-0082467-007  
 Operator ID: KN Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:50:09 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: farrellr

Date: 09-Jul-2019 08:48:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	161369	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	694998	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	396109	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.222	0.000	93	217195	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.460	0.000	0	260344	25.0	25.4	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.849	0.010	92	863284	25.0	25.3	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	287989	25.0	25.2	
11 Dichlorodifluoromethane	85	1.154	1.144	0.010	97	22034	2.00	2.05	
13 Chloromethane	50	1.289	1.289	0.000	97	21616	2.00	2.17	
151 Butadiene	54	1.361	1.361	0.000	87	19063	2.00	2.18	
14 Vinyl chloride	62	1.372	1.382	-0.010	96	21956	2.00	2.15	
15 Bromomethane	94	1.620	1.620	0.000	94	18500	2.00	2.18	M
16 Chloroethane	64	1.672	1.672	0.000	98	14454	2.00	2.12	M
18 Dichlorofluoromethane	67	1.890	1.890	0.000	95	36183	2.00	2.13	M
17 Trichlorofluoromethane	101	1.890	1.890	0.000	76	37320	2.00	2.17	
19 Ethyl ether	59	2.128	2.128	0.000	88	17678	2.00	2.22	
21 Acrolein	56	2.304	2.304	0.000	95	16482	10.0	11.6	
22 1,1-Dichloroethene	96	2.325	2.335	-0.010	98	15749	2.00	2.13	
20 1,1,2-Trichloro-1,2,2-trif	101	2.315	2.335	-0.020	68	18077	2.00	2.30	
23 Acetone	43	2.449	2.449	0.000	20	27274	10.0	10.9	M
24 Iodomethane	142	2.481	2.481	-0.001	100	34779	2.00	2.15	
25 Carbon disulfide	76	2.512	2.512	0.000	99	53439	2.00	2.19	
27 3-Chloro-1-propene	41	2.667	2.667	0.000	85	21700	2.00	2.13	
28 Methyl acetate	43	2.708	2.709	-0.001	96	29403	4.00	4.41	M
30 Methylene Chloride	84	2.802	2.802	0.000	92	22298	2.00	2.07	
31 2-Methyl-2-propanol	59	2.988	2.978	0.010	52	21689	20.0	20.1	
33 Methyl tert-butyl ether	73	2.999	2.988	0.011	91	51568	2.00	2.06	
32 trans-1,2-Dichloroethene	96	2.999	2.999	0.000	98	18191	2.00	2.09	
34 Acrylonitrile	53	3.061	3.061	0.000	98	75471	20.0	20.8	
35 Hexane	57	3.154	3.165	-0.011	87	27059	2.00	2.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.361	3.361	0.000	96	31604	2.00	2.24	
39 Vinyl acetate	43	3.403	3.403	0.000	97	52046	4.00	3.88	
42 2,2-Dichloropropane	77	3.797	3.807	-0.010	88	23959	2.00	2.10	
43 cis-1,2-Dichloroethene	96	3.828	3.838	-0.010	80	20252	2.00	2.07	
44 2-Butanone (MEK)	43	3.859	3.859	0.000	98	44266	10.0	10.6	
47 Chlorobromomethane	128	4.025	4.025	0.000	87	11769	2.00	2.17	
48 Tetrahydrofuran	42	4.045	4.035	0.010	87	13083	4.00	4.20	
50 Chloroform	83	4.087	4.097	-0.010	94	33597	2.00	2.23	
51 1,1,1-Trichloroethane	97	4.180	4.180	0.000	90	22926	2.00	2.09	
52 Cyclohexane	56	4.180	4.180	0.000	86	29352	2.00	2.21	
54 1,1-Dichloropropene	75	4.294	4.294	0.000	94	24799	2.00	2.27	
53 Carbon tetrachloride	117	4.294	4.294	0.000	93	17527	2.00	2.10	
55 Benzene	78	4.460	4.470	-0.010	55	74074	2.00	2.19	
56 Isobutyl alcohol	43	4.491	4.491	0.000	89	12990	50.0	45.2	
57 1,2-Dichloroethane	62	4.522	4.522	0.000	97	27140	2.00	2.27	
59 n-Heptane	43	4.605	4.605	0.000	90	27046	2.00	2.25	
60 Trichloroethene	95	4.947	4.947	0.000	90	19367	2.00	2.14	
62 Methylcyclohexane	83	5.040	5.040	0.000	88	32638	2.00	2.27	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	93	18056	2.00	2.20	
65 Dibromomethane	93	5.247	5.247	0.000	91	11197	2.00	1.98	
66 1,4-Dioxane	88	5.258	5.258	0.000	35	6678	40.0	45.2	a
67 Dichlorobromomethane	83	5.372	5.372	0.000	98	15423	2.00	1.88	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	93	13024	2.00	2.12	
71 cis-1,3-Dichloropropene	75	5.683	5.683	0.000	95	23526	2.00	1.92	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	93988	10.0	10.3	
73 Toluene	92	5.900	5.900	0.000	98	48019	2.00	2.13	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	88	21424	2.00	1.91	
77 Ethyl methacrylate	69	6.149	6.149	0.000	87	20815	2.00	2.02	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	89	14413	2.00	2.13	
79 Tetrachloroethene	166	6.304	6.305	-0.001	95	21406	2.00	2.18	
80 1,3-Dichloropropane	76	6.387	6.387	0.000	87	31342	2.00	2.24	
81 2-Hexanone	43	6.429	6.429	0.000	96	63818	10.0	10.2	
82 Chlorodibromomethane	129	6.564	6.564	0.000	87	10490	2.00	1.93	a
83 Ethylene Dibromide	107	6.646	6.647	0.000	100	16957	2.00	2.03	
86 Chlorobenzene	112	6.999	6.999	0.000	96	55264	2.00	2.14	
88 Ethylbenzene	91	7.061	7.061	0.000	97	90664	2.00	2.18	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	85	12179	2.00	1.87	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	37413	2.00	2.23	
91 o-Xylene	106	7.465	7.465	0.000	96	36076	2.00	2.15	
92 Styrene	104	7.486	7.486	0.000	96	59279	2.00	2.09	
93 Bromoform	173	7.683	7.683	0.000	93	6062	2.00	1.96	a
95 Isopropylbenzene	105	7.745	7.755	-0.010	95	92240	2.00	2.16	
97 Bromobenzene	156	8.025	8.025	0.000	88	25099	2.00	2.12	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	96	22162	2.00	2.01	
99 N-Propylbenzene	91	8.077	8.077	0.000	98	105296	2.00	2.12	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	88	8227	2.00	2.15	
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	71	6530	2.00	2.03	
105 2-Chlorotoluene	126	8.170	8.170	0.000	97	21961	2.00	2.03	
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	94	77053	2.00	2.12	
102 4-Chlorotoluene	91	8.253	8.253	0.000	95	73144	2.00	2.11	
106 tert-Butylbenzene	134	8.481	8.481	0.000	92	17604	2.00	2.04	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	95	77363	2.00	2.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	93	99919	2.00	2.14	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	96	87673	2.00	2.14	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	97	47683	2.00	2.06	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	95	49372	2.00	2.09	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	77346	2.00	2.16	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	98	47343	2.00	2.07	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	79	2422	2.00	1.84	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	93	33076	2.00	1.98	
120 Hexachlorobutadiene	225	10.584	10.584	0.000	95	13785	2.00	1.94	
121 Naphthalene	128	10.688	10.688	0.000	96	97407	2.00	2.06	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	95	34508	2.00	2.06	
S 123 1,3-Dichloropropene, Total	1				0			3.83	
S 125 Total BTEX	1				0			10.9	
S 126 Xylenes, Total	1				0			4.38	
S 124 1,2-Dichloroethene, Total	1				0			4.16	

### QC Flag Legend

#### Review Flags

M - Manually Integrated

a - User Assigned ID

### Reagents:

GAS CORP mix\_00349

Amount Added: 2.00

Units: uL

8260 CORP mix\_00159

Amount Added: 2.00

Units: uL

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00222

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2789.D

Injection Date: 08-Jul-2019 15:35:30

Instrument ID: HP5975T

Operator ID: KN

Lims ID: IC 2

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

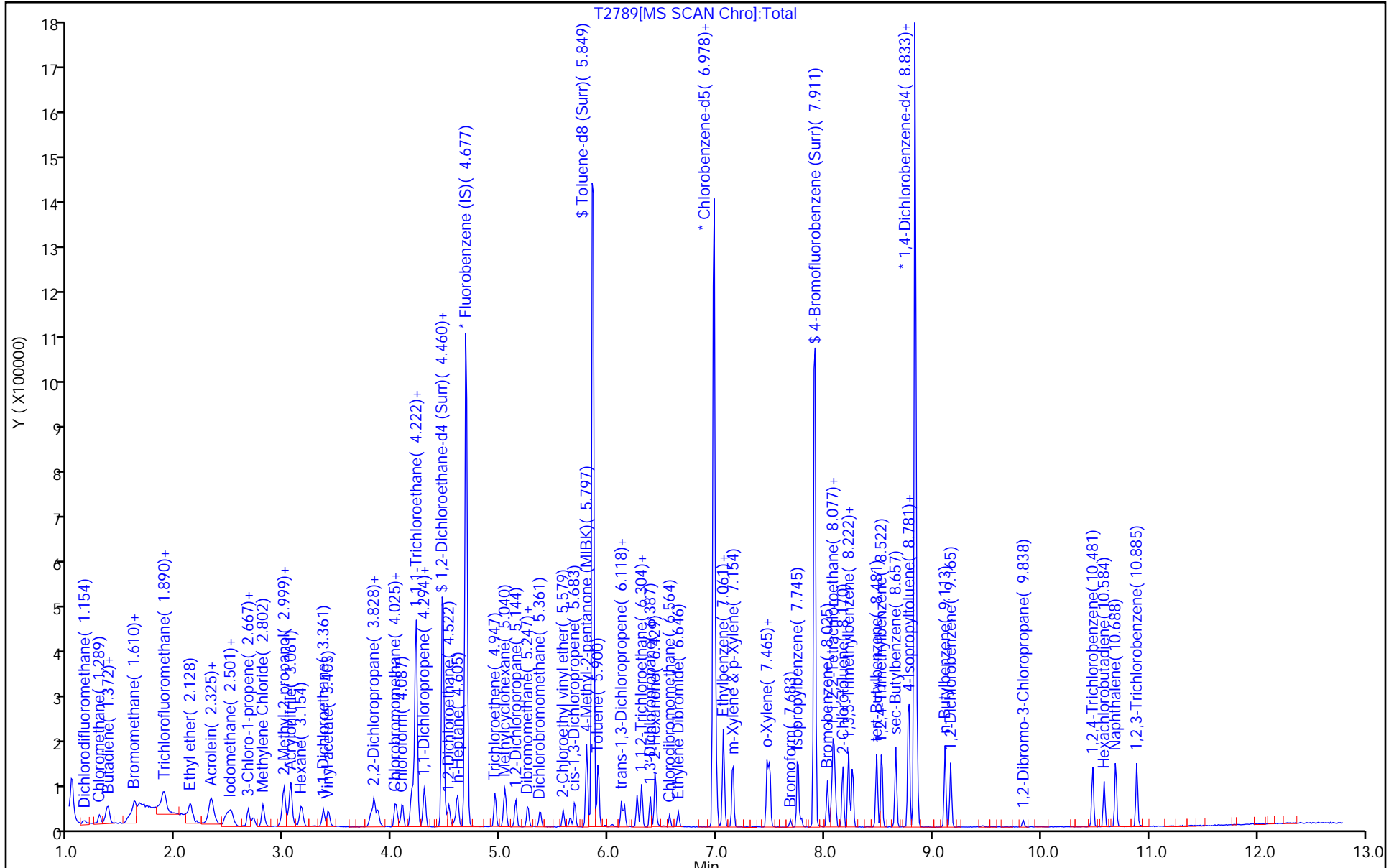
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

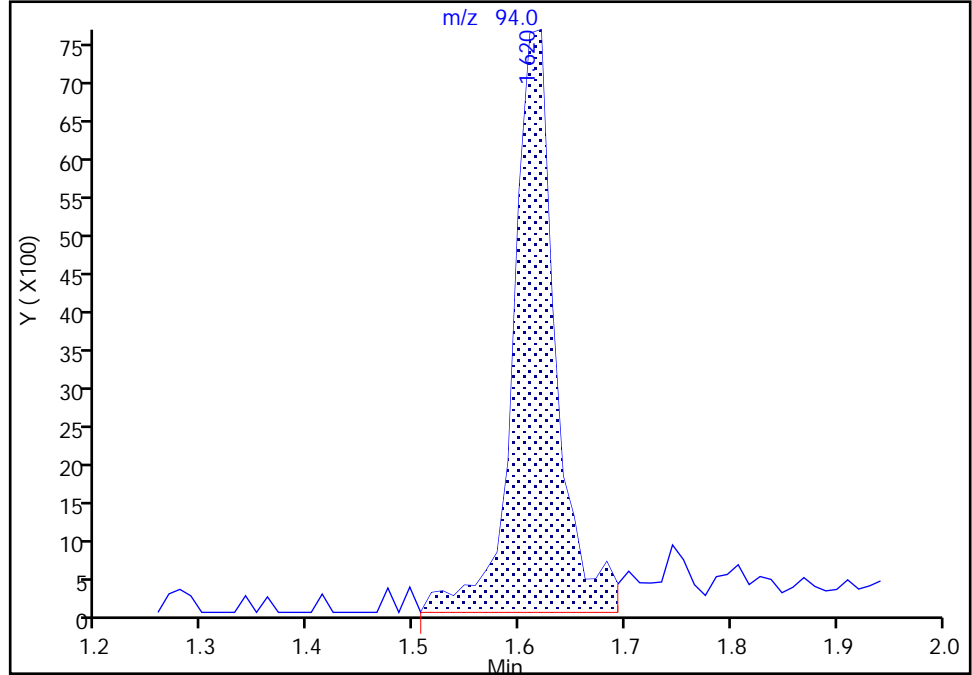
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Injection Date: 08-Jul-2019 15:35:30 Instrument ID: HP5975T  
Lims ID: IC 2  
Client ID:  
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

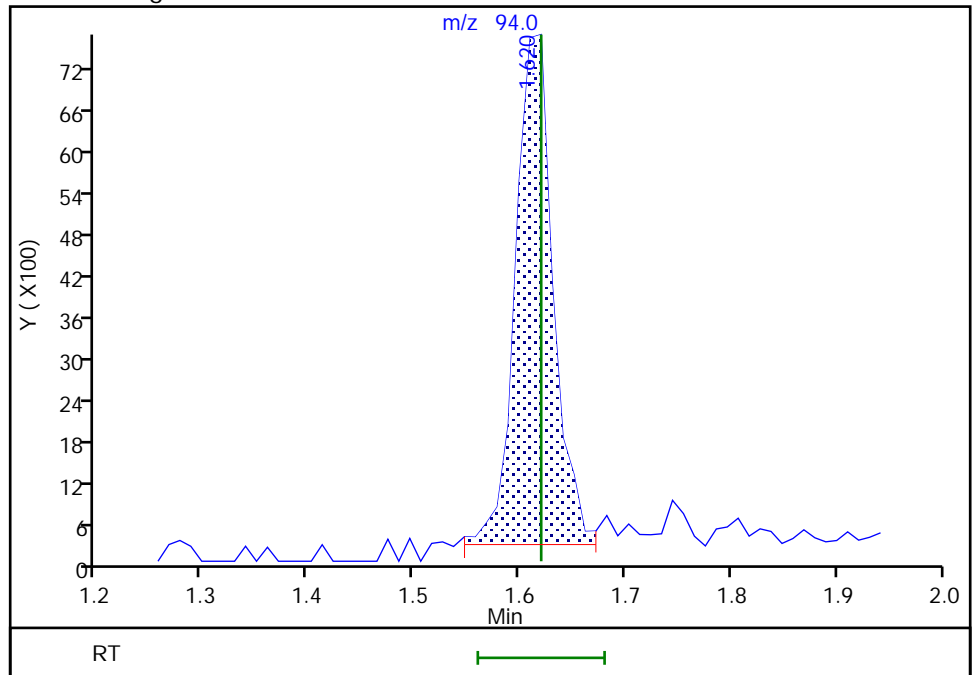
RT: 1.62  
Area: 21580  
Amount: 2.479617  
Amount Units: ug/L

Processing Integration Results



RT: 1.62  
Area: 18500  
Amount: 2.180843  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:06:04  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

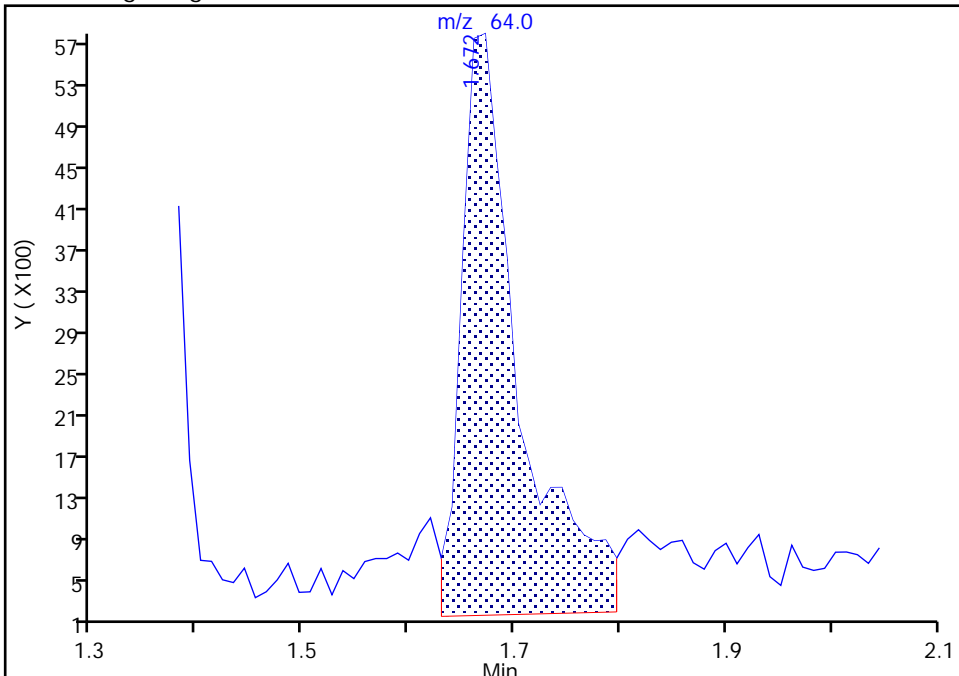
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Injection Date: 08-Jul-2019 15:35:30 Instrument ID: HP5975T  
Lims ID: IC 2  
Client ID:  
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

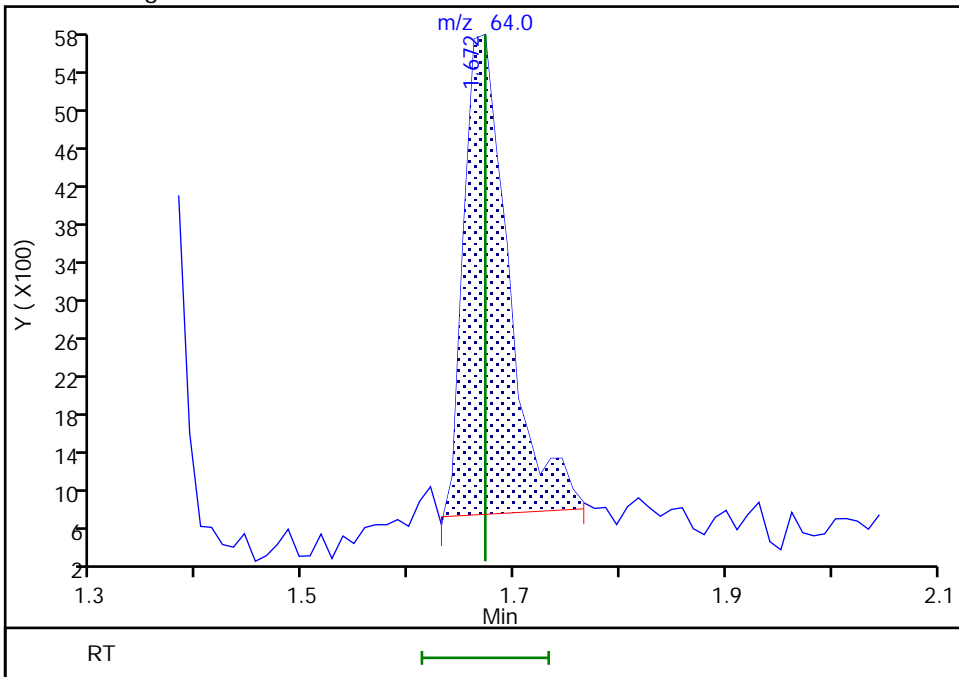
RT: 1.67  
Area: 21393  
Amount: 2.919768  
Amount Units: ug/L

Processing Integration Results



RT: 1.67  
Area: 14454  
Amount: 2.115846  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:03:06  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

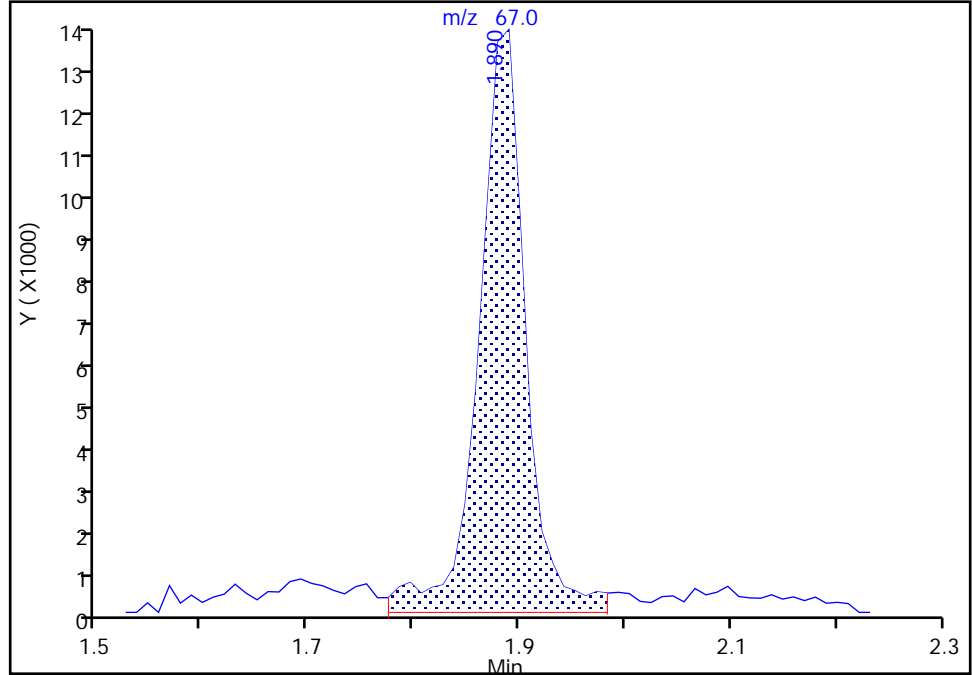
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Injection Date: 08-Jul-2019 15:35:30 Instrument ID: HP5975T  
Lims ID: IC 2  
Client ID:  
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

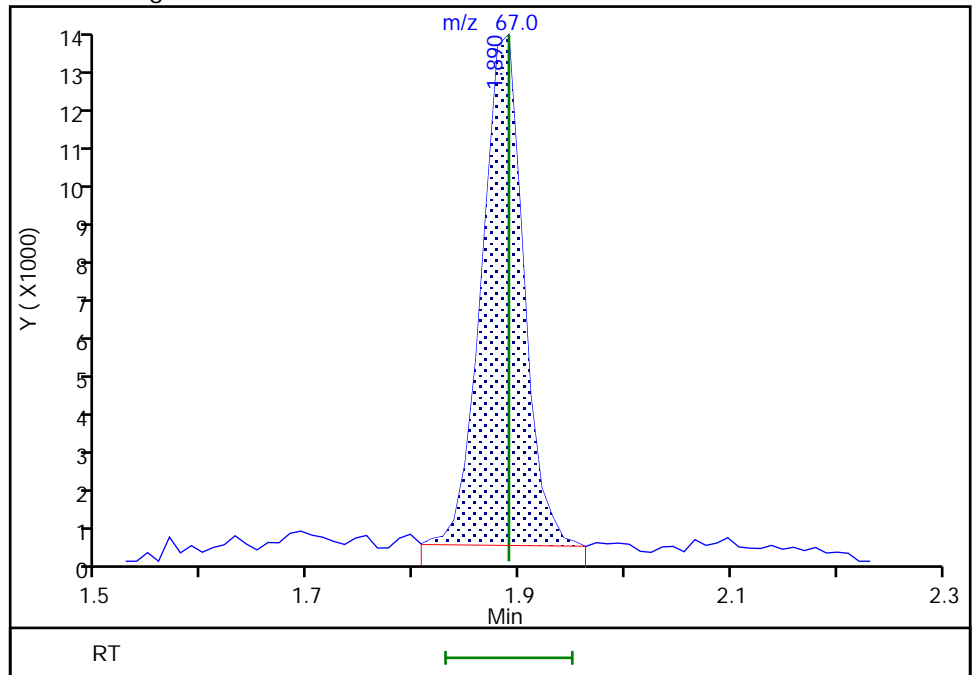
RT: 1.89  
Area: 41840  
Amount: 2.411050  
Amount Units: ug/L

Processing Integration Results



RT: 1.89  
Area: 36183  
Amount: 2.134771  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:06:25  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography



Eurofins TestAmerica, Buffalo

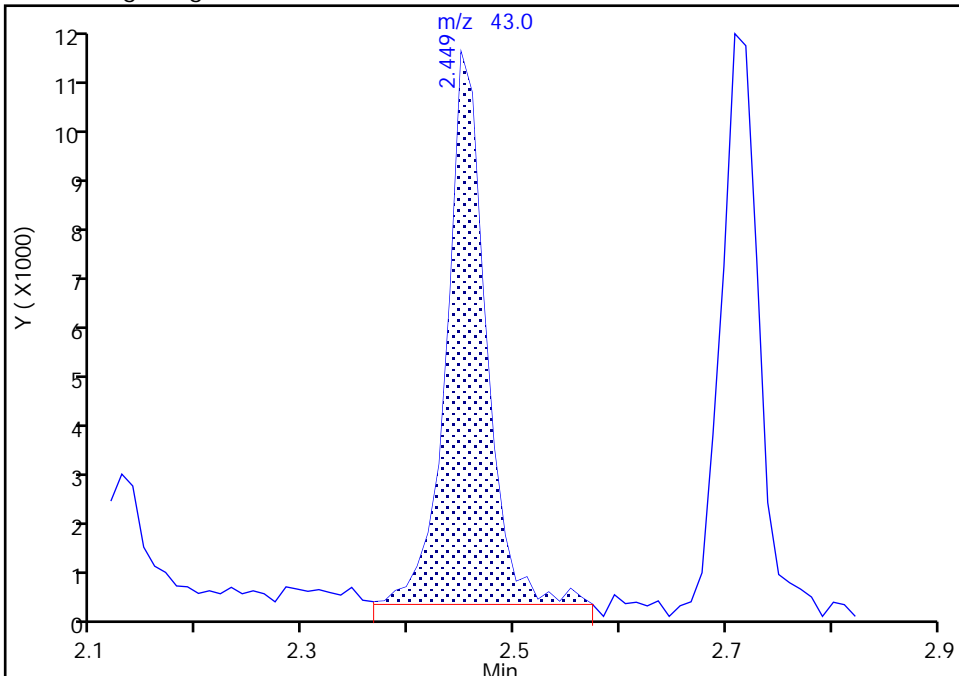
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Injection Date: 08-Jul-2019 15:35:30 Instrument ID: HP5975T  
Lims ID: IC 2  
Client ID:  
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

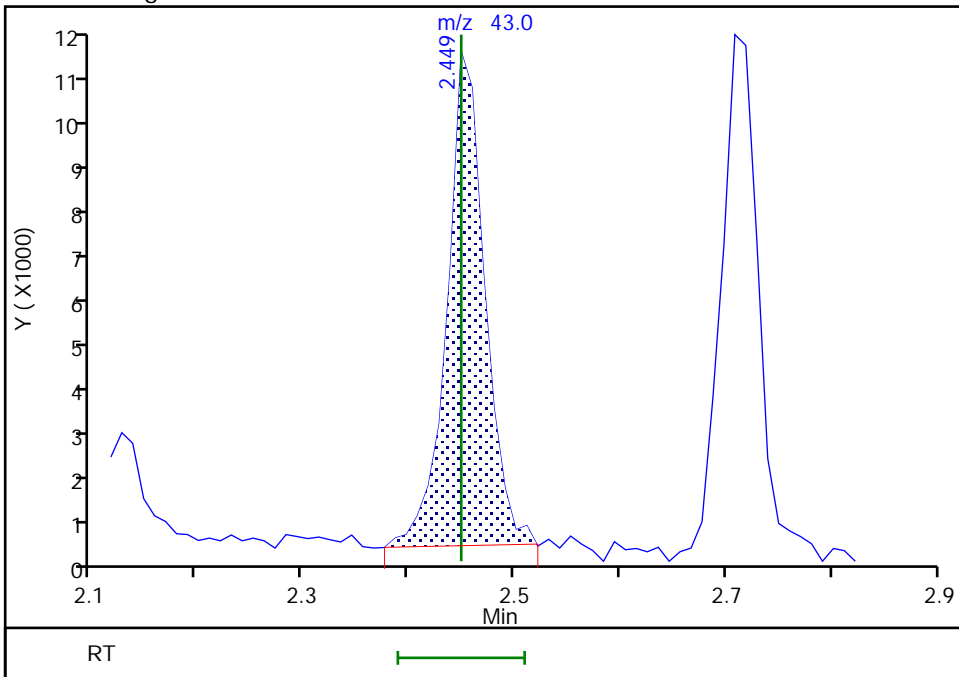
RT: 2.45  
Area: 28764  
Amount: 11.438005  
Amount Units: ug/L

Processing Integration Results



RT: 2.45  
Area: 27274  
Amount: 10.938089  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 10:08:01  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Euofins TestAmerica, Buffalo

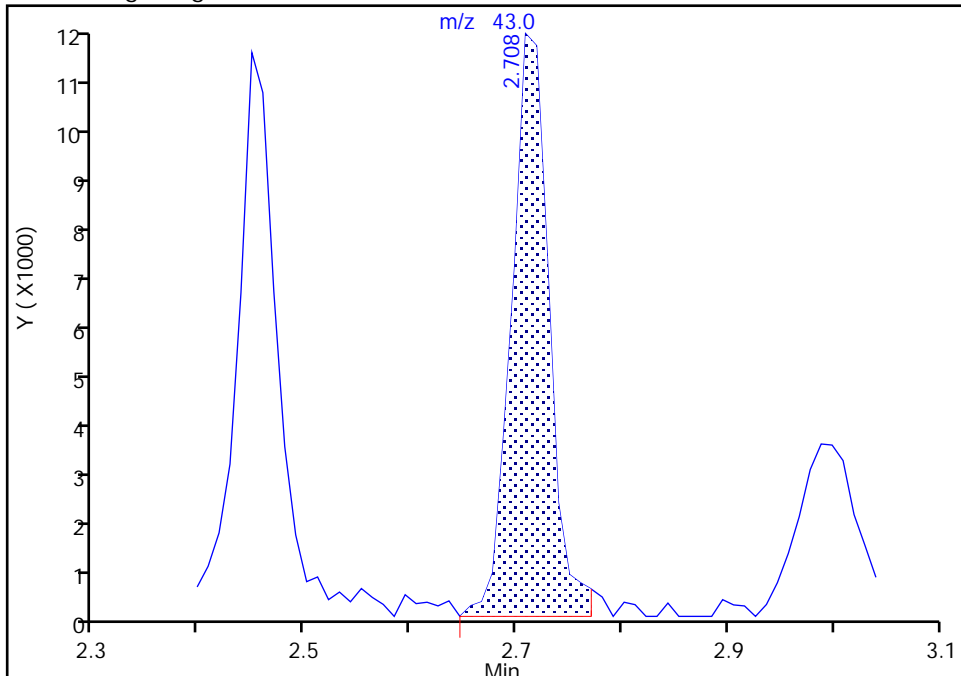
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Injection Date: 08-Jul-2019 15:35:30 Instrument ID: HP5975T  
Lims ID: IC 2  
Client ID:  
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

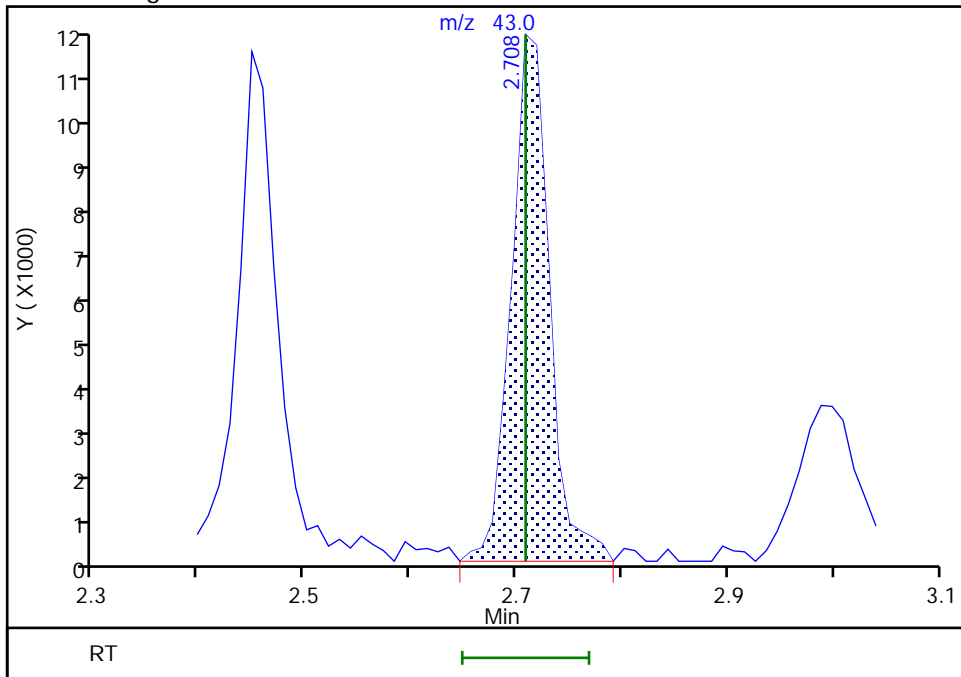
RT: 2.71  
Area: 29159  
Amount: 4.377200  
Amount Units: ug/L

Processing Integration Results



RT: 2.71  
Area: 29403  
Amount: 4.408061  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:45:33  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

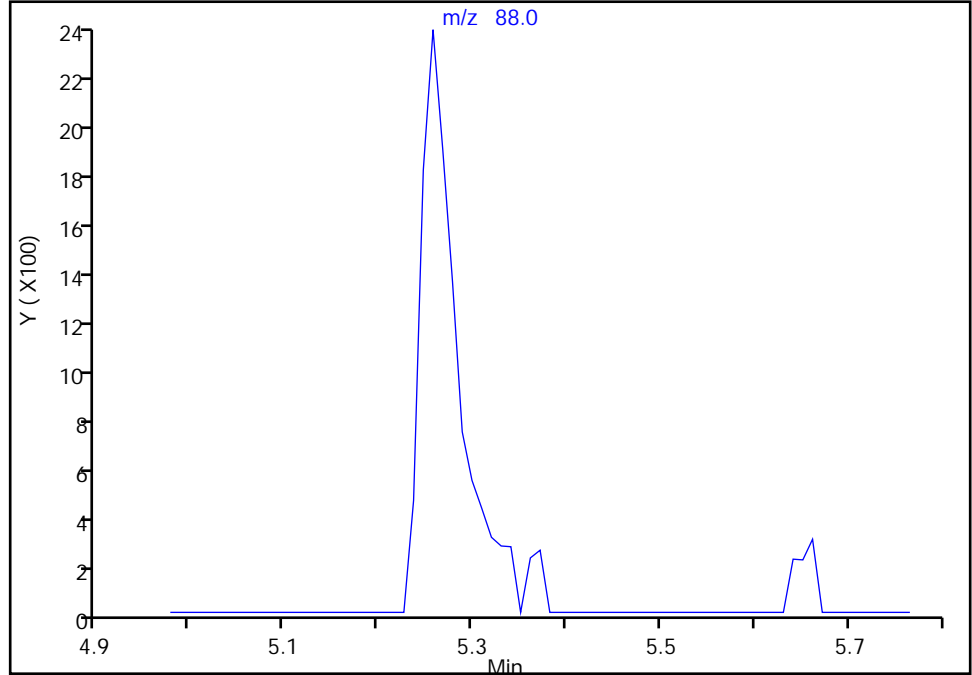
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Injection Date: 08-Jul-2019 15:35:30 Instrument ID: HP5975T  
Lims ID: IC 2  
Client ID:  
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

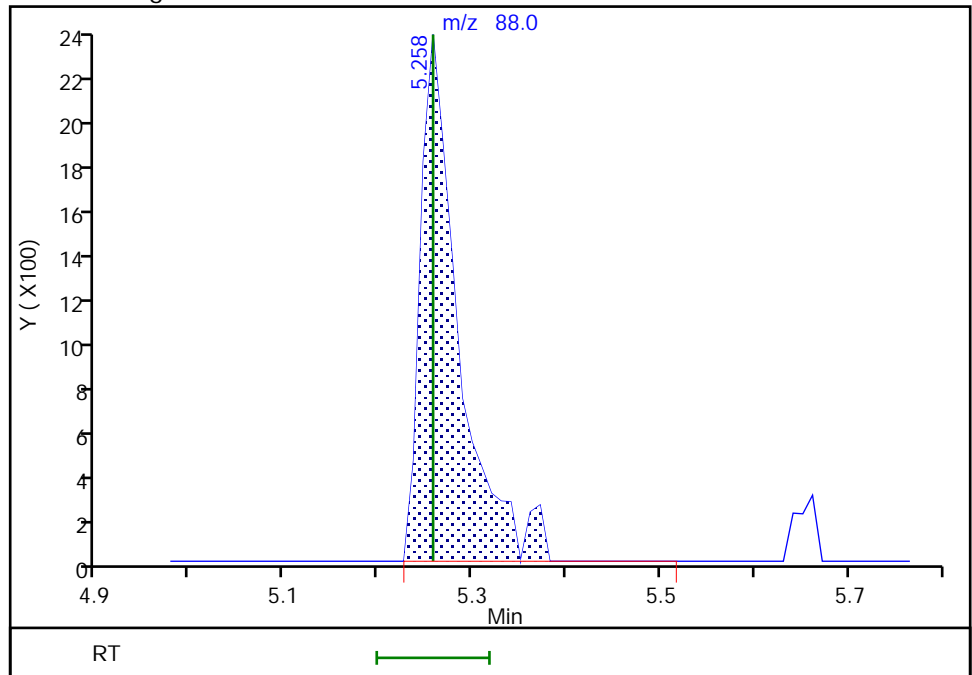
Not Detected  
Expected RT: 5.26

Processing Integration Results



RT: 5.26  
Area: 6678  
Amount: 45.173020  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:46:02  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

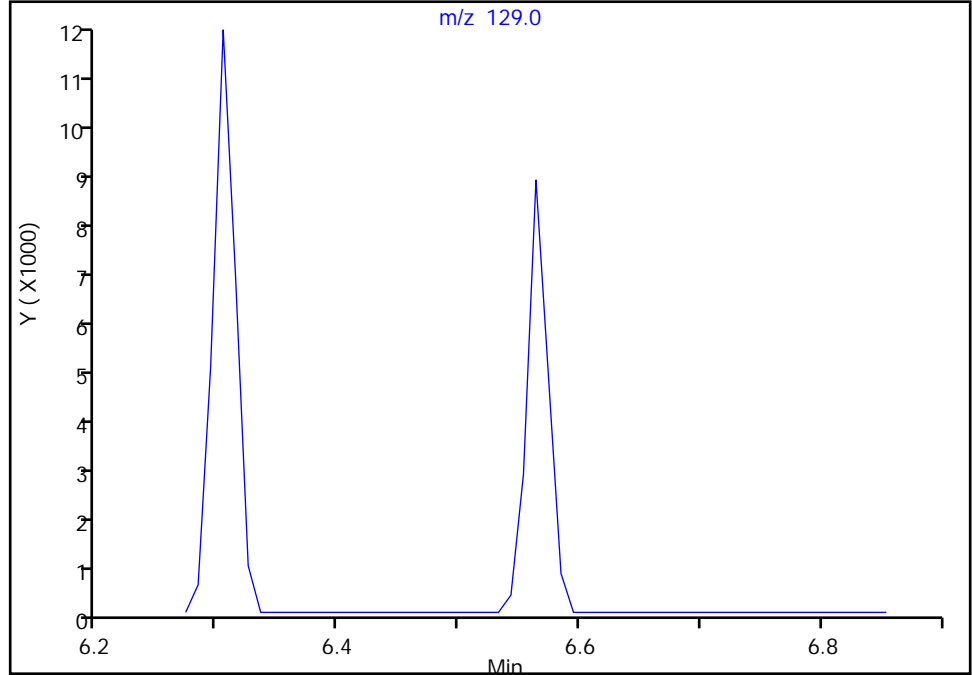
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Injection Date: 08-Jul-2019 15:35:30 Instrument ID: HP5975T  
Lims ID: IC 2  
Client ID:  
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

82 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

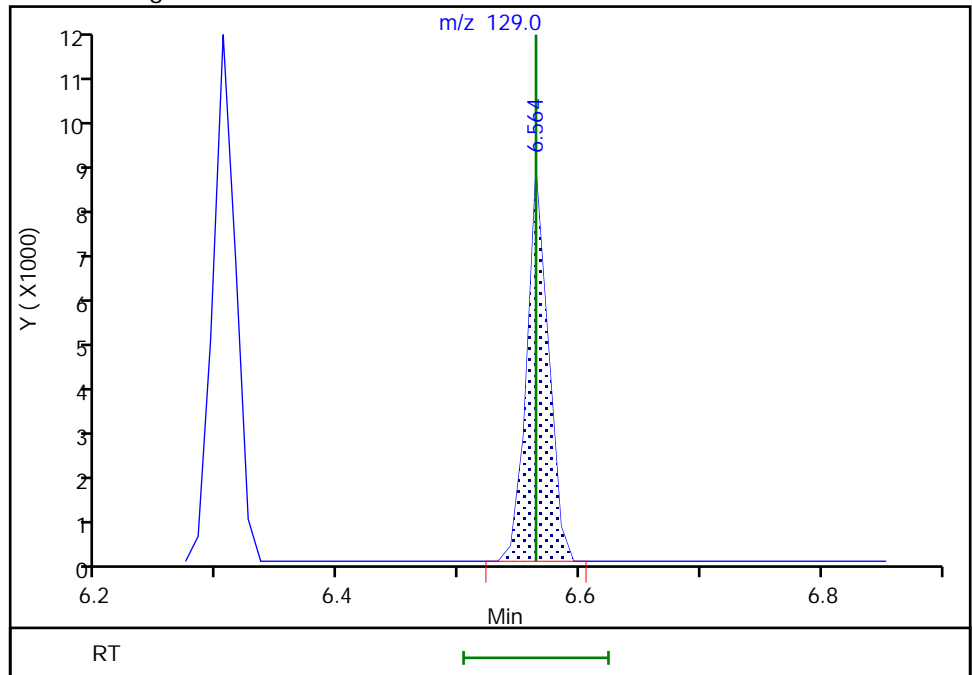
Not Detected  
Expected RT: 6.56

Processing Integration Results



RT: 6.56  
Area: 10490  
Amount: 1.929808  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:46:14  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

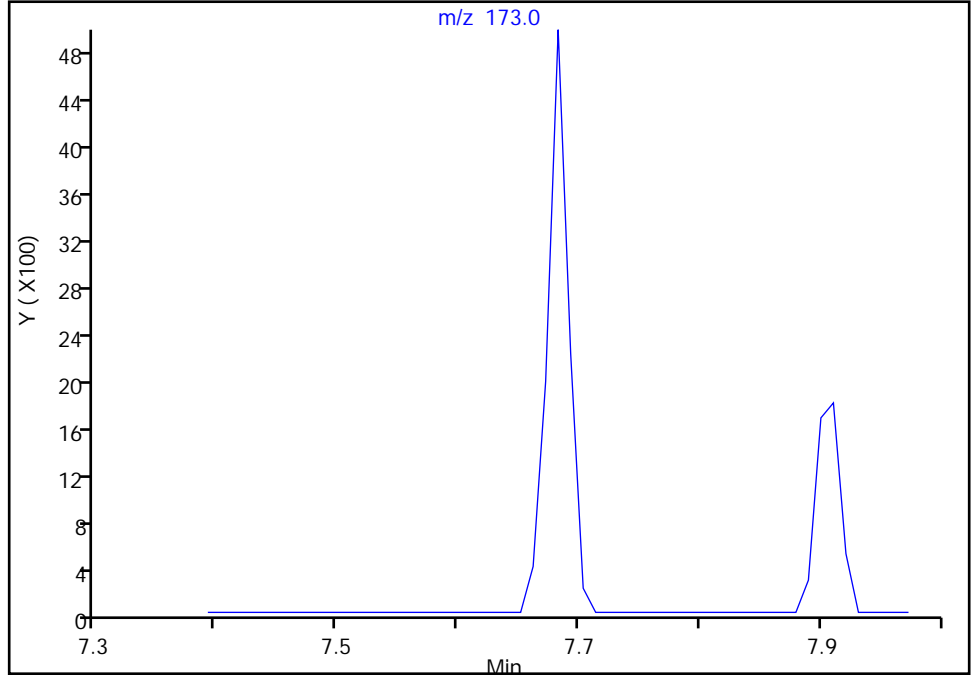
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Injection Date: 08-Jul-2019 15:35:30 Instrument ID: HP5975T  
Lims ID: IC 2  
Client ID:  
Operator ID: KN ALS Bottle#: 7 Worklist Smp#: 7  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

93 Bromoform, CAS: 75-25-2

Signal: 1

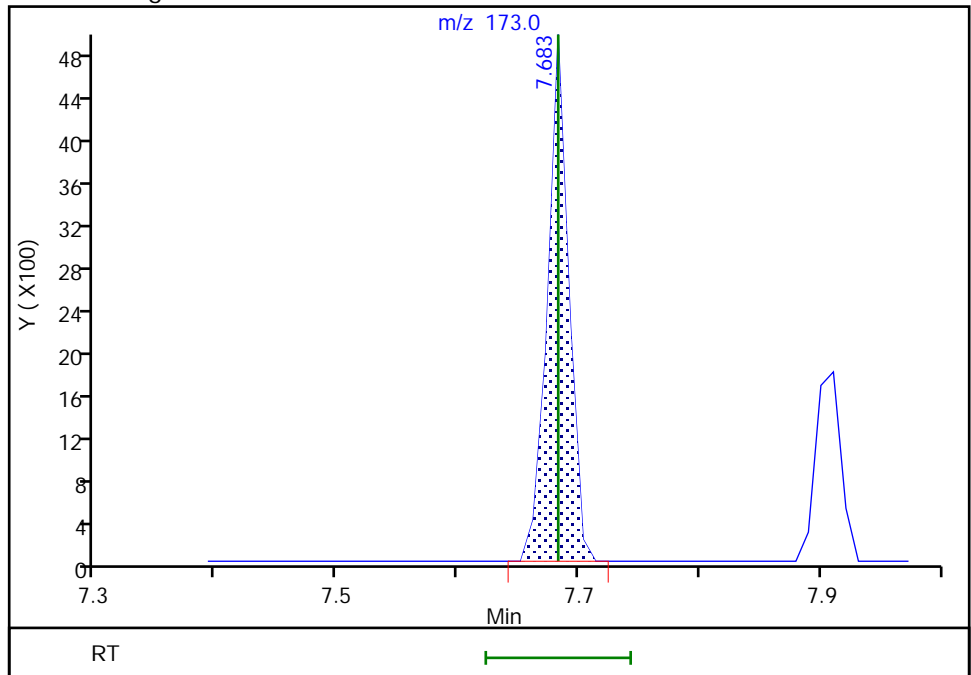
Not Detected  
Expected RT: 7.68

Processing Integration Results



Manual Integration Results

RT: 7.68  
Area: 6062  
Amount: 1.958546  
Amount Units: ug/L



Reviewer: farrellr, 09-Jul-2019 08:46:37  
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2790.D  
 Lims ID: IC 3  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 08-Jul-2019 15:59:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 3  
 Misc. Info.: 480-0082467-008  
 Operator ID: KN Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:50:17 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: farrellr

Date: 09-Jul-2019 08:52:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	157769	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	85	681080	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	382792	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.222	0.000	94	217954	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.460	0.010	0	253743	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.849	0.010	93	841439	25.0	25.2	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	273939	25.0	24.5	
11 Dichlorodifluoromethane	85	1.164	1.144	0.020	99	45292	5.00	4.30	
13 Chloromethane	50	1.299	1.289	0.010	99	42064	5.00	4.32	
151 Butadiene	54	1.361	1.361	0.000	87	38610	5.00	4.51	
14 Vinyl chloride	62	1.382	1.382	0.000	97	43167	5.00	4.32	
15 Bromomethane	94	1.620	1.620	0.000	93	40856	5.00	4.93	
16 Chloroethane	64	1.683	1.672	0.011	98	36491	5.00	5.46	
18 Dichlorofluoromethane	67	1.890	1.890	0.000	96	81667	5.00	4.93	
17 Trichlorofluoromethane	101	1.900	1.890	0.010	73	76788	5.00	4.56	
19 Ethyl ether	59	2.139	2.128	0.011	89	37021	5.00	4.75	
21 Acrolein	56	2.315	2.304	0.011	99	32112	25.0	23.2	
20 1,1,2-Trichloro-1,2,2-trif	101	2.335	2.335	0.000	64	38901	5.00	5.06	M
22 1,1-Dichloroethene	96	2.335	2.335	0.000	98	33073	5.00	4.57	
23 Acetone	43	2.460	2.449	0.011	100	55750	25.0	22.9	
24 Iodomethane	142	2.481	2.481	-0.001	98	73748	5.00	4.65	
25 Carbon disulfide	76	2.522	2.512	0.010	99	112088	5.00	4.69	
27 3-Chloro-1-propene	41	2.677	2.667	0.010	85	45627	5.00	4.59	
28 Methyl acetate	43	2.719	2.709	0.010	97	58757	10.0	9.01	
30 Methylene Chloride	84	2.812	2.802	0.010	87	44863	5.00	4.79	
31 2-Methyl-2-propanol	59	2.988	2.978	0.010	50	45064	50.0	42.8	
33 Methyl tert-butyl ether	73	2.999	2.988	0.011	96	111581	5.00	4.55	
32 trans-1,2-Dichloroethene	96	2.999	2.999	0.000	97	39777	5.00	4.68	
34 Acrylonitrile	53	3.061	3.061	0.000	98	161230	50.0	45.4	
35 Hexane	57	3.164	3.165	-0.001	90	56940	5.00	4.87	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.372	3.361	0.011	96	64653	5.00	4.68	
39 Vinyl acetate	43	3.403	3.403	0.000	97	107263	10.0	8.17	
42 2,2-Dichloropropane	77	3.807	3.807	0.000	89	52727	5.00	4.73	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	81	43164	5.00	4.52	
44 2-Butanone (MEK)	43	3.869	3.859	0.010	99	92190	25.0	22.5	
47 Chlorobromomethane	128	4.035	4.025	0.010	88	24291	5.00	4.59	
48 Tetrahydrofuran	42	4.045	4.035	0.010	86	26151	10.0	8.58	M
50 Chloroform	83	4.097	4.097	0.000	94	68044	5.00	4.61	
51 1,1,1-Trichloroethane	97	4.190	4.180	0.010	87	48963	5.00	4.57	
52 Cyclohexane	56	4.190	4.180	0.010	89	61745	5.00	4.75	
54 1,1-Dichloropropene	75	4.304	4.294	0.010	94	48873	5.00	4.58	
53 Carbon tetrachloride	117	4.294	4.294	0.000	96	33480	5.00	4.09	
55 Benzene	78	4.470	4.470	0.000	70	152148	5.00	4.60	
56 Isobutyl alcohol	43	4.491	4.491	0.000	90	28795	125.0	102.4	
57 1,2-Dichloroethane	62	4.522	4.522	0.000	97	53643	5.00	4.59	
59 n-Heptane	43	4.605	4.605	0.000	89	59425	5.00	5.07	
60 Trichloroethene	95	4.947	4.947	0.000	94	39116	5.00	4.42	
62 Methylcyclohexane	83	5.040	5.040	0.000	87	69182	5.00	4.92	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	92	36149	5.00	4.50	
65 Dibromomethane	93	5.247	5.247	0.000	92	26183	5.00	4.73	
66 1,4-Dioxane	88	5.258	5.258	0.000	45	13411	100.0	92.6	
67 Dichlorobromomethane	83	5.372	5.372	0.000	99	35030	5.00	4.36	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	92	27103	5.00	4.51	
71 cis-1,3-Dichloropropene	75	5.683	5.683	0.000	96	52991	5.00	4.43	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	200454	25.0	22.4	
73 Toluene	92	5.900	5.900	0.000	98	100905	5.00	4.58	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	90	47959	5.00	4.37	
77 Ethyl methacrylate	69	6.149	6.149	0.000	89	41783	5.00	4.14	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	91	29998	5.00	4.52	
79 Tetrachloroethene	166	6.304	6.305	-0.001	96	44314	5.00	4.60	
80 1,3-Dichloropropane	76	6.387	6.387	0.000	89	60054	5.00	4.39	
81 2-Hexanone	43	6.429	6.429	0.000	95	139201	25.0	22.6	
82 Chlorodibromomethane	129	6.564	6.564	0.000	90	21654	5.00	4.07	
83 Ethylene Dibromide	107	6.646	6.647	0.000	99	36771	5.00	4.48	
86 Chlorobenzene	112	6.999	6.999	0.000	96	112591	5.00	4.46	
88 Ethylbenzene	91	7.061	7.061	0.000	98	189208	5.00	4.64	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	89	25516	5.00	4.00	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	74448	5.00	4.53	
91 o-Xylene	106	7.465	7.465	0.000	97	72735	5.00	4.41	
92 Styrene	104	7.496	7.486	0.010	95	128374	5.00	4.63	
93 Bromoform	173	7.683	7.683	0.000	96	12691	5.00	4.18	
95 Isopropylbenzene	105	7.755	7.755	0.000	95	194566	5.00	4.71	
97 Bromobenzene	156	8.025	8.025	0.000	90	50165	5.00	4.38	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	95	48069	5.00	4.52	
99 N-Propylbenzene	91	8.077	8.077	0.000	99	217948	5.00	4.54	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	87	18061	5.00	4.88	
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	71	14312	5.00	4.60	
105 2-Chlorotoluene	126	8.170	8.170	0.000	97	47775	5.00	4.56	
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	95	157813	5.00	4.49	
102 4-Chlorotoluene	91	8.253	8.253	0.000	97	156940	5.00	4.69	
106 tert-Butylbenzene	134	8.481	8.481	0.000	91	37339	5.00	4.49	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	96	167584	5.00	4.58	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	93	211110	5.00	4.68	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	97	188665	5.00	4.75	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	97	103141	5.00	4.62	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	96	102196	5.00	4.48	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	165116	5.00	4.76	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	98	103158	5.00	4.66	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	81	5280	5.00	4.14	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	94	74765	5.00	4.62	
120 Hexachlorobutadiene	225	10.584	10.584	0.000	97	30831	5.00	4.49	
121 Naphthalene	128	10.688	10.688	0.000	97	205090	5.00	4.48	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	97	74031	5.00	4.56	
S 123 1,3-Dichloropropene, Total	1				0			8.79	
S 125 Total BTEX	1				0			22.8	
S 126 Xylenes, Total	1				0			8.95	
S 124 1,2-Dichloroethene, Total	1				0			9.20	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

8260 CORP mix\_00159

Amount Added: 5.00

Units: uL

GAS CORP mix\_00349

Amount Added: 5.00

Units: uL

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00222

Amount Added: 1.00

Units: uL

Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2790.D

Injection Date: 08-Jul-2019 15:59:30

Instrument ID: HP5975T

Operator ID: KN

Lims ID: IC 3

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

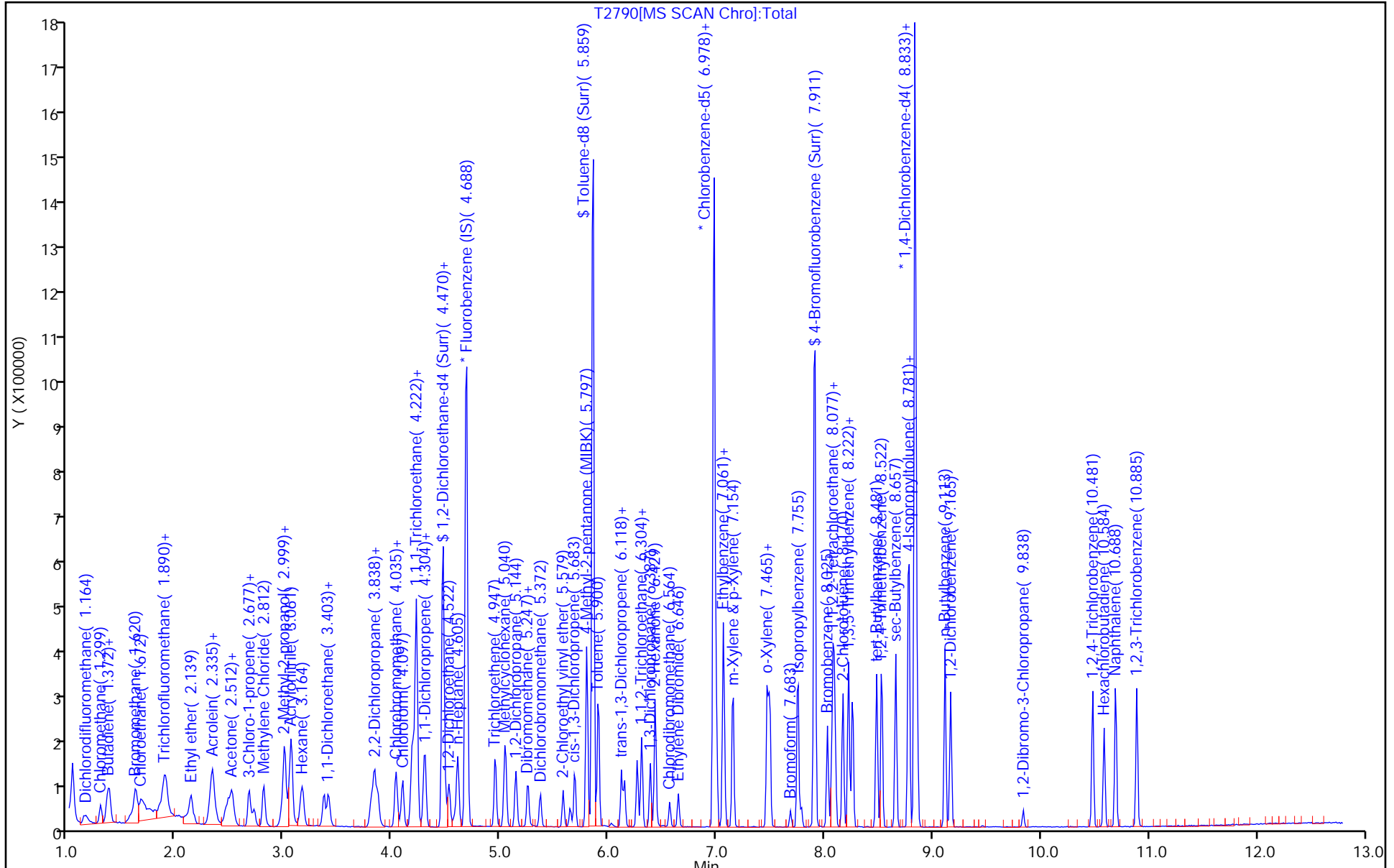
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Euofins TestAmerica, Buffalo

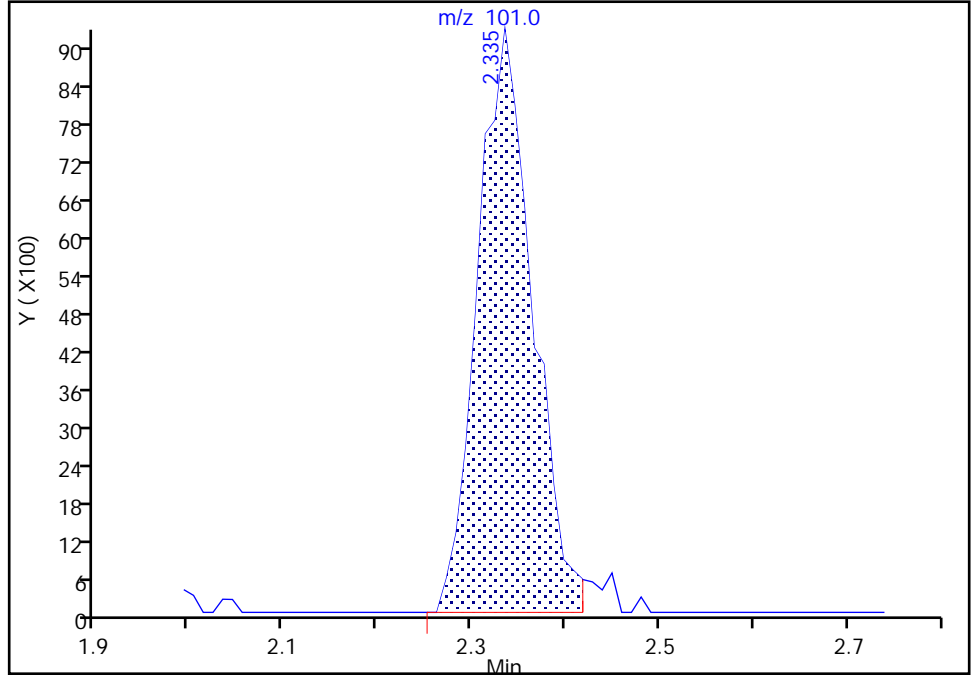
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Injection Date: 08-Jul-2019 15:59:30 Instrument ID: HP5975T  
Lims ID: IC 3  
Client ID:  
Operator ID: KN ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

Signal: 1

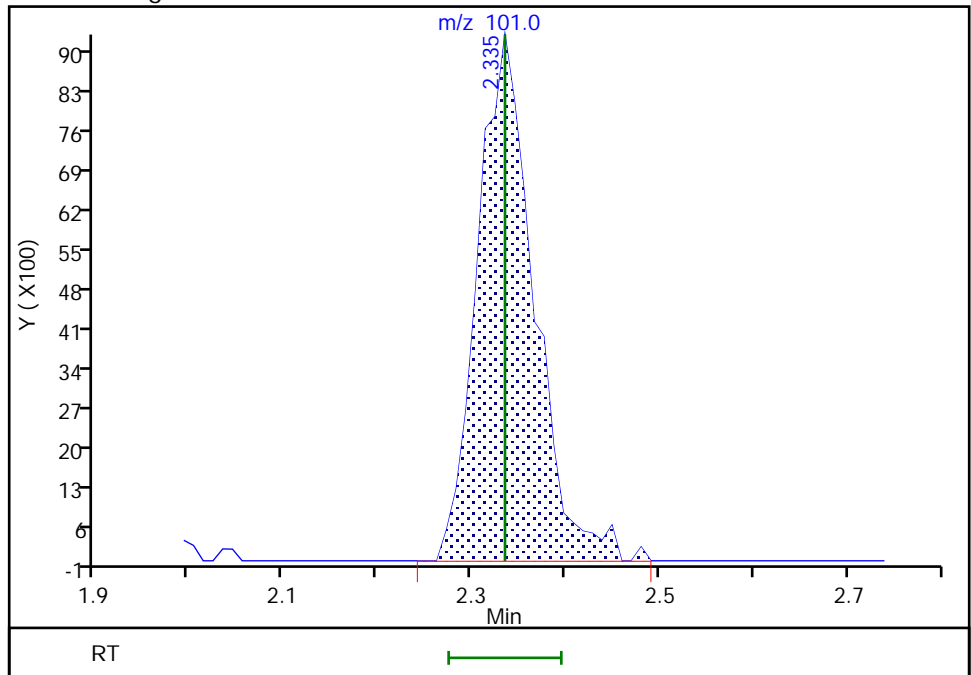
RT: 2.34  
Area: 37715  
Amount: 4.782685  
Amount Units: ug/L

Processing Integration Results



RT: 2.34  
Area: 38901  
Amount: 5.055689  
Amount Units: ug/L

Manual Integration Results



Reviewer: HillL, 09-Jul-2019 11:48:09  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

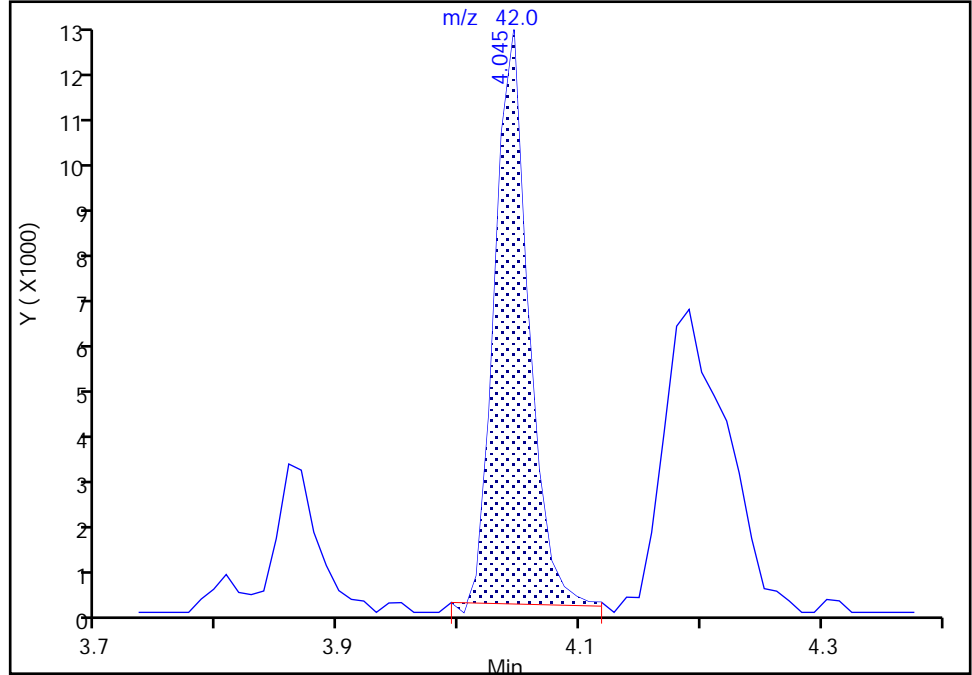
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Injection Date: 08-Jul-2019 15:59:30 Instrument ID: HP5975T  
Lims ID: IC 3  
Client ID:  
Operator ID: KN ALS Bottle#: 8 Worklist Smp#: 8  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

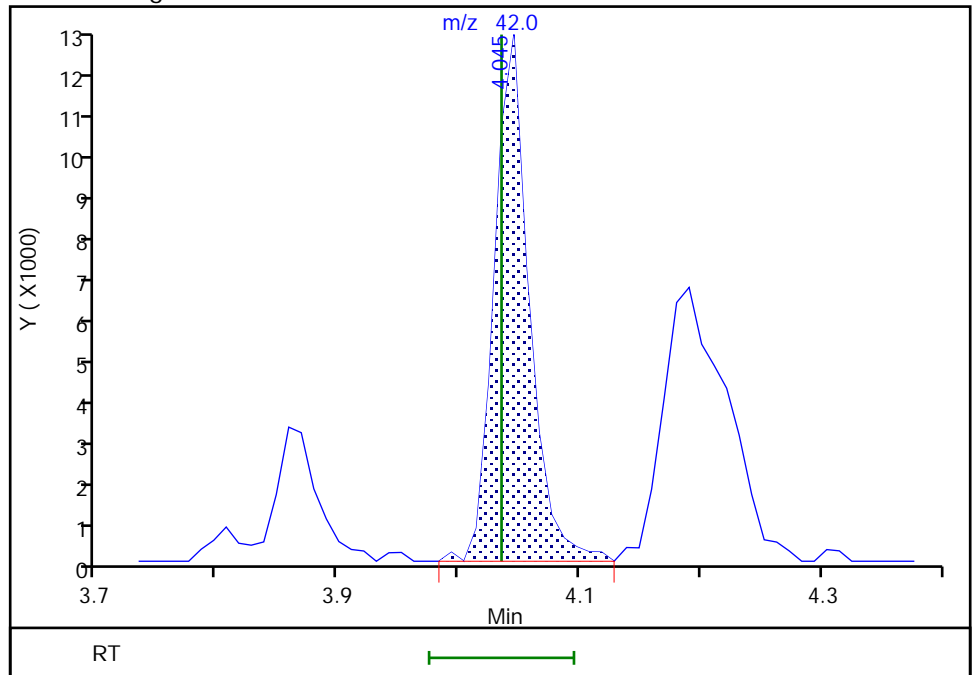
RT: 4.05  
Area: 24699  
Amount: 8.162596  
Amount Units: ug/L

Processing Integration Results



RT: 4.05  
Area: 26151  
Amount: 8.583458  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:50:35  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2791.D  
 Lims ID: IC 4  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 08-Jul-2019 16:23:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 4  
 Misc. Info.: 480-0082467-009  
 Operator ID: KN Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:50:23 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: farrellr

Date: 09-Jul-2019 08:56:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	166052	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	85	709993	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	402252	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.222	-0.001	95	227369	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.460	0.010	0	265836	25.0	25.2	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.849	0.010	93	868762	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	288304	25.0	24.7	
11 Dichlorodifluoromethane	85	1.154	1.144	0.010	99	104169	10.0	9.40	
13 Chloromethane	50	1.299	1.289	0.010	98	97420	10.0	9.51	
151 Butadiene	54	1.372	1.361	0.011	88	84239	10.0	9.35	
14 Vinyl chloride	62	1.382	1.382	0.000	98	95365	10.0	9.07	
15 Bromomethane	94	1.620	1.620	0.000	93	80826	10.0	9.26	
16 Chloroethane	64	1.672	1.672	0.000	99	68361	10.0	9.72	
18 Dichlorofluoromethane	67	1.890	1.890	0.000	95	169635	10.0	9.73	
17 Trichlorofluoromethane	101	1.900	1.890	0.010	73	171641	10.0	9.69	
19 Ethyl ether	59	2.138	2.128	0.010	91	77290	10.0	9.42	
21 Acrolein	56	2.304	2.304	0.000	98	63357	50.0	43.5	
22 1,1-Dichloroethene	96	2.335	2.335	0.000	98	65277	10.0	8.57	
20 1,1,2-Trichloro-1,2,2-trif	101	2.335	2.335	0.000	65	70515	10.0	8.71	
23 Acetone	43	2.449	2.449	0.000	100	124037	50.0	48.3	
24 Iodomethane	142	2.480	2.481	-0.001	99	148440	10.0	8.90	
25 Carbon disulfide	76	2.512	2.512	0.000	99	217721	10.0	8.66	
27 3-Chloro-1-propene	41	2.667	2.667	0.000	86	90974	10.0	8.69	
28 Methyl acetate	43	2.719	2.709	0.010	97	127937	20.0	18.6	
30 Methylene Chloride	84	2.812	2.802	0.010	91	87069	10.0	9.25	
31 2-Methyl-2-propanol	59	2.988	2.978	0.010	52	98107	100.0	88.4	
33 Methyl tert-butyl ether	73	2.988	2.988	0.000	97	238931	10.0	9.26	
32 trans-1,2-Dichloroethene	96	2.999	2.999	0.000	96	80069	10.0	8.96	
34 Acrylonitrile	53	3.061	3.061	0.000	99	356703	100.0	95.5	
35 Hexane	57	3.164	3.165	-0.001	91	101549	10.0	8.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.361	3.361	0.000	96	133056	10.0	9.15	
39 Vinyl acetate	43	3.413	3.403	0.010	97	251084	20.0	18.2	
42 2,2-Dichloropropane	77	3.807	3.807	0.000	89	101681	10.0	8.67	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	80	90188	10.0	8.96	
44 2-Butanone (MEK)	43	3.859	3.859	0.000	99	203133	50.0	47.1	
47 Chlorobromomethane	128	4.025	4.025	0.000	93	49357	10.0	8.86	
48 Tetrahydrofuran	42	4.045	4.035	0.010	83	60971	20.0	19.0	M
50 Chloroform	83	4.097	4.097	0.000	94	140555	10.0	9.06	
51 1,1,1-Trichloroethane	97	4.180	4.180	0.000	86	99313	10.0	8.80	
52 Cyclohexane	56	4.190	4.180	0.010	86	120239	10.0	8.79	
54 1,1-Dichloropropene	75	4.304	4.294	0.010	97	98793	10.0	8.79	
53 Carbon tetrachloride	117	4.294	4.294	0.000	96	68157	10.0	7.92	
55 Benzene	78	4.470	4.470	0.000	91	308357	10.0	8.87	
56 Isobutyl alcohol	43	4.491	4.491	0.000	91	68618	250.0	231.9	
57 1,2-Dichloroethane	62	4.522	4.522	0.000	98	113492	10.0	9.23	
59 n-Heptane	43	4.605	4.605	0.000	90	100767	10.0	8.16	
60 Trichloroethene	95	4.947	4.947	0.000	96	81372	10.0	8.74	
62 Methylcyclohexane	83	5.040	5.040	0.000	89	127919	10.0	8.64	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	95	79121	10.0	9.36	
65 Dibromomethane	93	5.247	5.247	0.000	93	54215	10.0	9.31	
66 1,4-Dioxane	88	5.258	5.258	0.000	46	31184	200.0	206.5	
67 Dichlorobromomethane	83	5.372	5.372	0.000	98	73457	10.0	8.68	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	93	61255	10.0	9.68	
71 cis-1,3-Dichloropropene	75	5.683	5.683	0.000	95	116476	10.0	9.24	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	472510	50.0	50.6	
73 Toluene	92	5.900	5.900	0.000	98	202279	10.0	8.80	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	91	108127	10.0	9.45	
77 Ethyl methacrylate	69	6.149	6.149	0.000	88	99559	10.0	9.47	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	91	65179	10.0	9.43	
79 Tetrachloroethene	166	6.304	6.305	-0.001	97	92176	10.0	9.17	
80 1,3-Dichloropropane	76	6.387	6.387	0.000	89	135211	10.0	9.48	
81 2-Hexanone	43	6.429	6.429	0.000	95	325016	50.0	50.6	
82 Chlorodibromomethane	129	6.563	6.564	-0.001	90	50221	10.0	9.04	
83 Ethylene Dibromide	107	6.646	6.647	0.000	98	81629	10.0	9.55	
86 Chlorobenzene	112	6.999	6.999	0.000	97	246846	10.0	9.38	
88 Ethylbenzene	91	7.061	7.061	0.000	98	386643	10.0	9.10	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	88	57948	10.0	8.72	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	154738	10.0	9.04	
91 o-Xylene	106	7.465	7.465	0.000	97	158540	10.0	9.23	
92 Styrene	104	7.486	7.486	0.000	96	269928	10.0	9.33	
93 Bromoform	173	7.683	7.683	0.000	92	27923	10.0	8.83	
95 Isopropylbenzene	105	7.755	7.755	0.000	95	394143	10.0	9.07	
97 Bromobenzene	156	8.025	8.025	0.000	90	109573	10.0	9.10	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	95	105416	10.0	9.42	
99 N-Propylbenzene	91	8.077	8.077	-0.001	99	458939	10.0	9.09	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	87	38558	10.0	9.92	
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	84	32617	10.0	9.97	
105 2-Chlorotoluene	126	8.170	8.170	0.000	98	102984	10.0	9.36	
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	95	345392	10.0	9.36	
102 4-Chlorotoluene	91	8.253	8.253	0.000	98	323874	10.0	9.21	
106 tert-Butylbenzene	134	8.481	8.481	0.000	91	79547	10.0	9.09	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	96	347809	10.0	9.05	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	93	425099	10.0	8.98	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	97	383357	10.0	9.19	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	97	215514	10.0	9.18	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	97	227537	10.0	9.50	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	331808	10.0	9.10	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	99	218219	10.0	9.38	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	81	12928	10.0	9.65	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	95	158279	10.0	9.31	
120 Hexachlorobutadiene	225	10.584	10.584	0.000	96	59744	10.0	8.29	
121 Naphthalene	128	10.688	10.688	0.000	97	465755	10.0	9.69	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	96	158191	10.0	9.28	
S 123 1,3-Dichloropropene, Total	1				0			18.7	
S 125 Total BTEX	1				0			45.0	
S 126 Xylenes, Total	1				0			18.3	
S 124 1,2-Dichloroethene, Total	1				0			17.9	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

8260 CORP mix\_00159

Amount Added: 5.00

Units: uL

GAS CORP mix\_00349

Amount Added: 5.00

Units: uL

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00222

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2791.D

Injection Date: 08-Jul-2019 16:23:30

Instrument ID: HP5975T

Operator ID: KN

Lims ID: IC 4

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

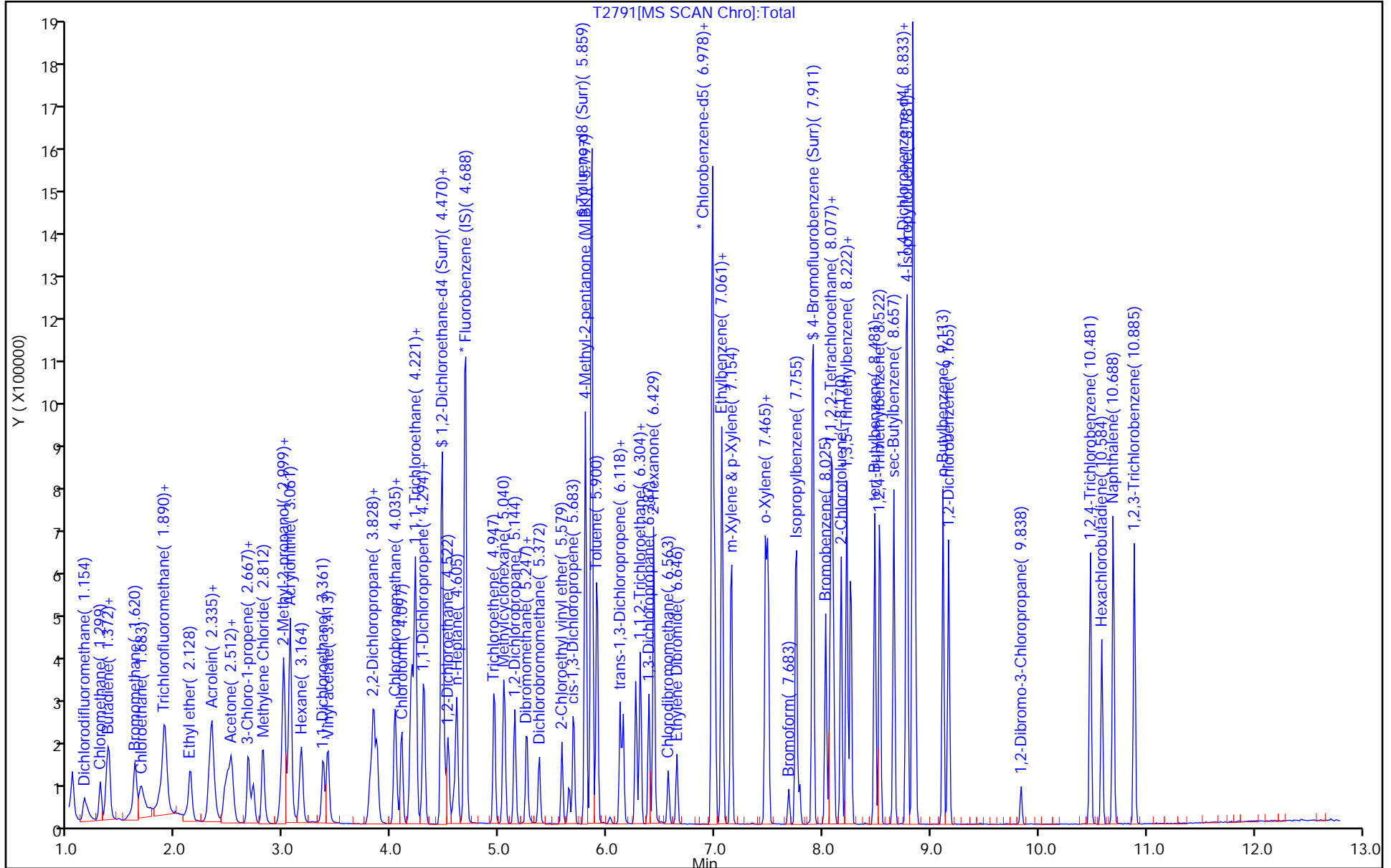
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

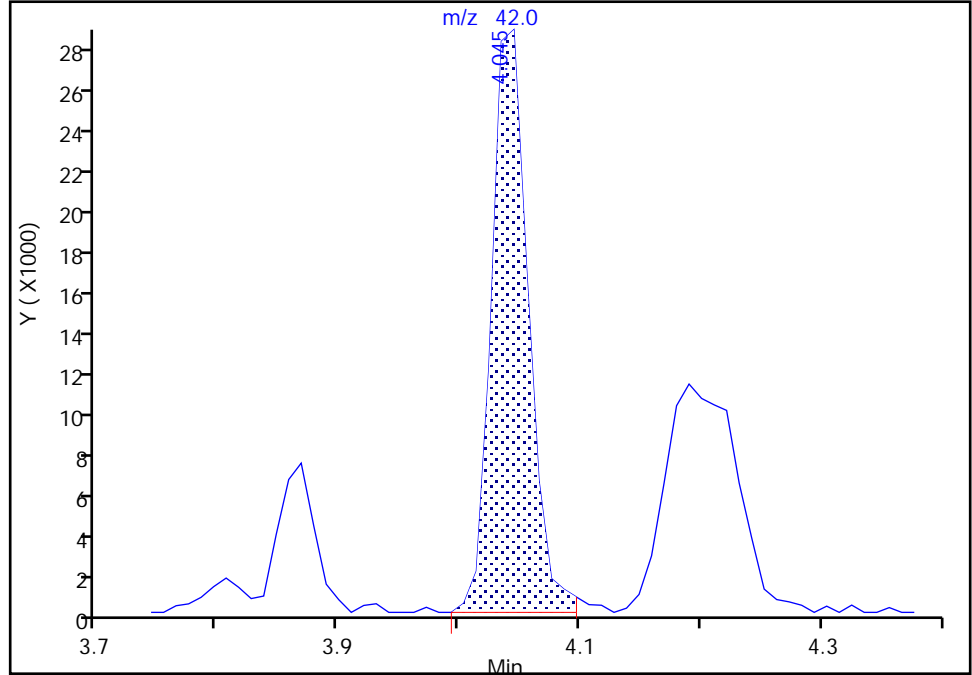
Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2791.D  
Injection Date: 08-Jul-2019 16:23:30 Instrument ID: HP5975T  
Lims ID: IC 4  
Client ID:  
Operator ID: KN ALS Bottle#: 9 Worklist Smp#: 9  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

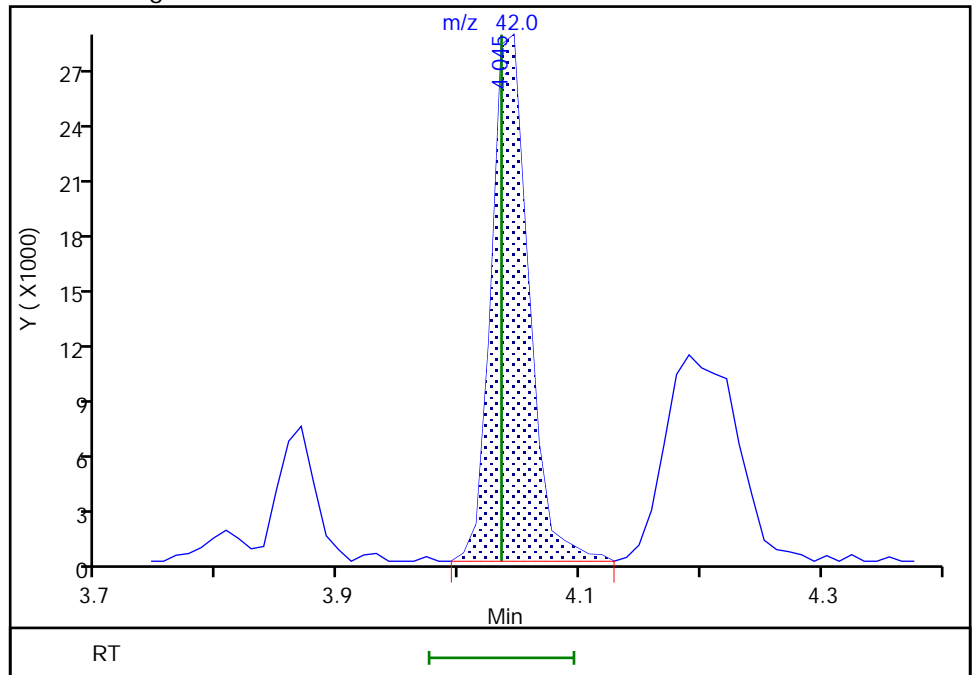
RT: 4.05  
Area: 60525  
Amount: 18.891395  
Amount Units: ug/L

Processing Integration Results



RT: 4.05  
Area: 60971  
Amount: 19.014060  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 08:55:02  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2792.D  
 Lims ID: ICIS 5  
 Client ID:  
 Sample Type: ICIS Calib Level: 6  
 Inject. Date: 08-Jul-2019 16:47:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: icis 5  
 Misc. Info.: 480-0082467-010  
 Operator ID: KN Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:50:29 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: farrellr

Date: 09-Jul-2019 08:08:34

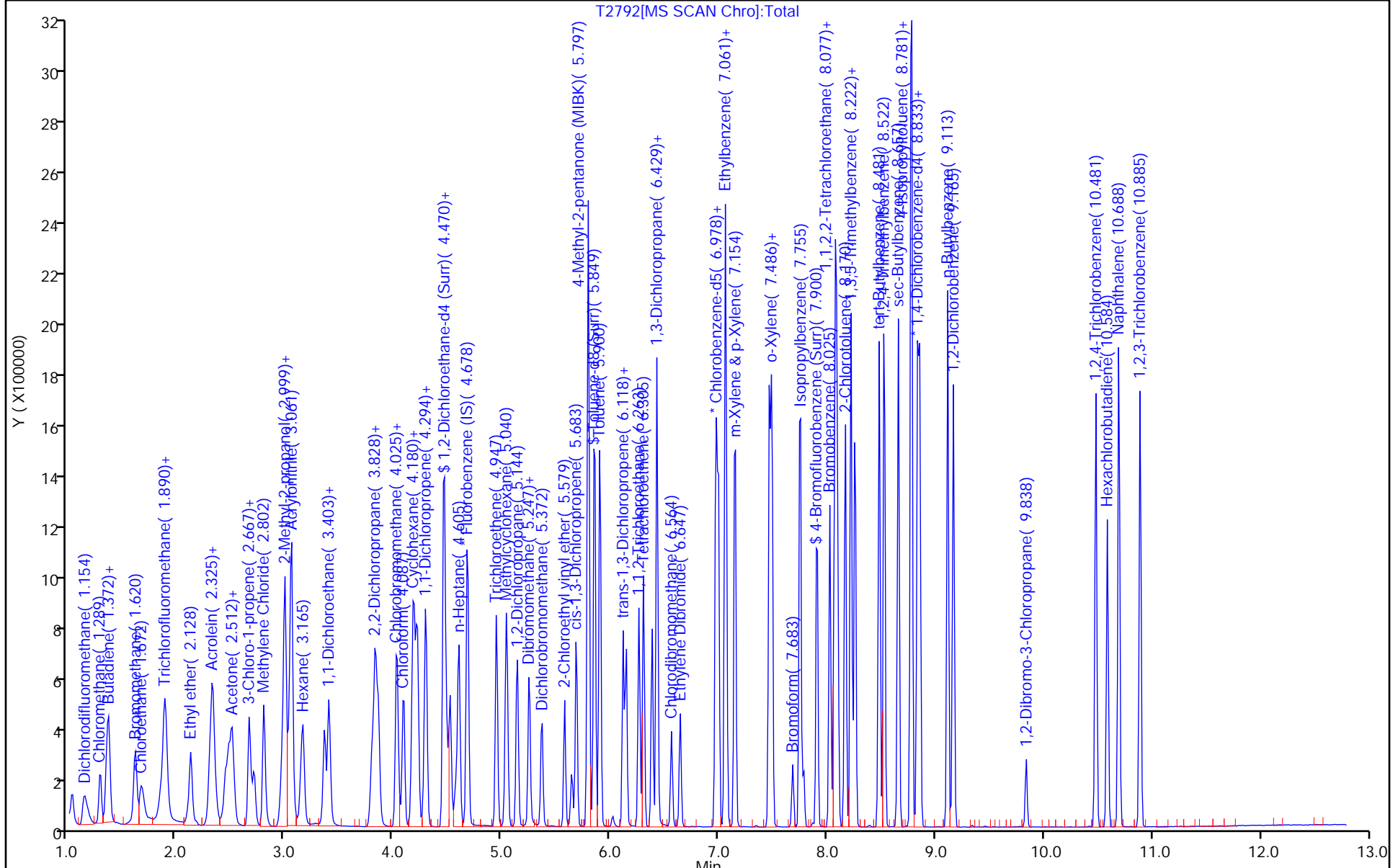
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.678	4.678	0.000	99	167087	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	87	719413	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	401726	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.222	0.000	94	228807	25.0	24.8	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.460	0.000	0	264627	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	5.849	5.849	0.000	93	878845	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	295296	25.0	25.0	
11 Dichlorodifluoromethane	85	1.144	1.144	0.000	99	236609	25.0	21.2	
13 Chloromethane	50	1.289	1.289	0.000	98	238540	25.0	23.1	
151 Butadiene	54	1.361	1.361	0.000	89	191339	25.0	21.1	
14 Vinyl chloride	62	1.382	1.382	0.000	98	235036	25.0	22.2	
15 Bromomethane	94	1.620	1.620	0.000	92	215717	25.0	24.6	
16 Chloroethane	64	1.672	1.672	0.000	99	162356	25.0	23.0	
18 Dichlorofluoromethane	67	1.890	1.890	0.000	98	407494	25.0	23.2	
17 Trichlorofluoromethane	101	1.890	1.890	0.000	99	387536	25.0	21.7	
19 Ethyl ether	59	2.128	2.128	0.000	91	195214	25.0	23.6	
21 Acrolein	56	2.304	2.304	0.000	100	178645	125.0	121.8	
20 1,1,2-Trichloro-1,2,2-trif	101	2.335	2.335	0.000	62	163652	25.0	20.1	
22 1,1-Dichloroethene	96	2.335	2.335	0.000	97	165725	25.0	21.6	
23 Acetone	43	2.449	2.449	0.000	100	331440	125.0	128.4	
24 Iodomethane	142	2.481	2.481	0.000	100	380358	25.0	22.7	
25 Carbon disulfide	76	2.512	2.512	0.000	100	554806	25.0	21.9	
27 3-Chloro-1-propene	41	2.667	2.667	0.000	87	246505	25.0	23.4	
28 Methyl acetate	43	2.709	2.709	0.000	97	329871	50.0	47.8	
30 Methylene Chloride	84	2.802	2.802	0.000	90	225332	25.0	24.6	
31 2-Methyl-2-propanol	59	2.978	2.978	0.000	98	292227	250.0	261.8	
33 Methyl tert-butyl ether	73	2.988	2.988	0.000	99	635360	25.0	24.5	
32 trans-1,2-Dichloroethene	96	2.999	2.999	0.000	98	206036	25.0	22.9	
34 Acrylonitrile	53	3.061	3.061	0.000	100	925757	250.0	246.2	
35 Hexane	57	3.165	3.165	0.000	90	251172	25.0	20.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.361	3.361	0.000	96	344471	25.0	23.5	
39 Vinyl acetate	43	3.403	3.403	0.000	97	713461	50.0	51.3	
42 2,2-Dichloropropane	77	3.807	3.807	0.000	90	263036	25.0	22.3	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	78	237669	25.0	23.5	
44 2-Butanone (MEK)	43	3.859	3.859	0.000	99	535969	125.0	123.6	
47 Chlorobromomethane	128	4.025	4.025	0.000	89	138170	25.0	24.6	
48 Tetrahydrofuran	42	4.035	4.035	0.000	86	158054	50.0	49.0	
50 Chloroform	83	4.097	4.097	0.000	94	365160	25.0	23.4	
51 1,1,1-Trichloroethane	97	4.180	4.180	0.000	95	263896	25.0	23.2	
52 Cyclohexane	56	4.180	4.180	0.000	85	284672	25.0	20.7	
54 1,1-Dichloropropene	75	4.294	4.294	0.000	96	250666	25.0	22.2	
53 Carbon tetrachloride	117	4.294	4.294	0.000	96	187102	25.0	21.6	
55 Benzene	78	4.470	4.470	0.000	96	800030	25.0	22.9	
56 Isobutyl alcohol	43	4.491	4.491	0.000	92	214116	625.0	719.0	
57 1,2-Dichloroethane	62	4.522	4.522	0.000	97	301640	25.0	24.4	
59 n-Heptane	43	4.605	4.605	0.000	89	257664	25.0	20.7	
60 Trichloroethene	95	4.947	4.947	0.000	95	211557	25.0	22.6	
62 Methylcyclohexane	83	5.040	5.040	0.000	89	312314	25.0	21.0	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	94	204134	25.0	24.0	
65 Dibromomethane	93	5.247	5.247	0.000	94	147693	25.0	25.2	
66 1,4-Dioxane	88	5.258	5.258	0.000	91	81783	500.0	534.4	
67 Dichlorobromomethane	83	5.372	5.372	0.000	97	211443	25.0	24.8	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	93	158912	25.0	25.0	
71 cis-1,3-Dichloropropene	75	5.683	5.683	0.000	96	326906	25.0	25.8	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	1244531	125.0	131.6	
73 Toluene	92	5.900	5.900	0.000	99	537324	25.0	23.1	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	93	297618	25.0	25.7	
77 Ethyl methacrylate	69	6.149	6.149	0.000	87	284531	25.0	26.7	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	89	170958	25.0	24.4	
79 Tetrachloroethene	166	6.305	6.305	0.000	97	232563	25.0	22.8	
80 1,3-Dichloropropane	76	6.387	6.387	0.000	89	354184	25.0	24.5	
81 2-Hexanone	43	6.429	6.429	0.000	94	872593	125.0	134.1	
82 Chlorodibromomethane	129	6.564	6.564	0.000	89	151702	25.0	27.0	
83 Ethylene Dibromide	107	6.647	6.647	0.000	100	225407	25.0	26.0	
86 Chlorobenzene	112	6.999	6.999	0.000	97	632848	25.0	23.7	
88 Ethylbenzene	91	7.061	7.061	0.000	97	1016165	25.0	23.6	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	91	178111	25.0	26.4	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	413928	25.0	23.9	
91 o-Xylene	106	7.465	7.465	0.000	97	409520	25.0	23.5	
92 Styrene	104	7.486	7.486	0.000	95	709564	25.0	24.2	
93 Bromoform	173	7.683	7.683	0.000	96	89835	25.0	28.0	
95 Isopropylbenzene	105	7.755	7.755	0.000	95	1037097	25.0	23.9	
97 Bromobenzene	156	8.025	8.025	0.000	89	299844	25.0	24.9	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	96	297579	25.0	26.6	
99 N-Propylbenzene	91	8.077	8.077	0.000	99	1205412	25.0	23.9	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	88	105624	25.0	27.2	
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	87	86408	25.0	26.5	
105 2-Chlorotoluene	126	8.170	8.170	0.000	98	268964	25.0	24.5	
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	95	904358	25.0	24.5	
102 4-Chlorotoluene	91	8.253	8.253	0.000	98	864493	25.0	24.6	
106 tert-Butylbenzene	134	8.481	8.481	0.000	91	206718	25.0	23.7	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	96	940070	25.0	24.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	94	1128181	25.0	23.9	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	97	1026850	25.0	24.7	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	98	583546	25.0	24.9	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	96	593656	25.0	24.8	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	902889	25.0	24.8	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	99	589101	25.0	25.4	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	86	40469	25.0	30.3	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	94	435151	25.0	25.6	
120 Hexachlorobutadiene	225	10.584	10.584	0.000	97	173458	25.0	24.1	
121 Naphthalene	128	10.688	10.688	0.000	97	1253792	25.0	26.1	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	96	428986	25.0	25.2	

**Reagents:**

8260 CORP mix_00159	Amount Added: 12.50	Units: uL	
GAS CORP mix_00349	Amount Added: 12.50	Units: uL	
T_8260_Surr_00193	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00222	Amount Added: 1.00	Units: uL	Run Reagent



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2793.D  
 Lims ID: IC 6  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 08-Jul-2019 17:11:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 6  
 Misc. Info.: 480-0082467-011  
 Operator ID: KN Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:50:36 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: farrellr

Date: 09-Jul-2019 08:58:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.678	0.010	99	168514	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	83	733544	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	429492	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.222	-0.001	75	233600	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.460	0.010	0	261834	25.0	24.5	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.849	0.010	92	894809	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	309784	25.0	25.7	
11 Dichlorodifluoromethane	85	1.154	1.144	0.010	99	612339	50.0	54.4	
13 Chloromethane	50	1.299	1.289	0.010	98	524869	50.0	50.5	
151 Butadiene	54	1.361	1.361	0.000	90	490724	50.0	53.7	
14 Vinyl chloride	62	1.382	1.382	0.000	98	563575	50.0	52.8	
15 Bromomethane	94	1.620	1.620	0.000	92	455687	50.0	51.4	
16 Chloroethane	64	1.683	1.672	0.011	99	377532	50.0	52.9	
18 Dichlorofluoromethane	67	1.890	1.890	0.000	97	884894	50.0	50.0	
17 Trichlorofluoromethane	101	1.900	1.890	0.010	98	959075	50.0	53.3	
19 Ethyl ether	59	2.128	2.128	0.000	92	373781	50.0	44.9	
21 Acrolein	56	2.304	2.304	0.000	100	330600	250.0	223.5	
22 1,1-Dichloroethene	96	2.335	2.335	0.000	98	359580	50.0	46.5	
20 1,1,2-Trichloro-1,2,2-trif	101	2.335	2.335	0.000	65	396057	50.0	48.2	
23 Acetone	43	2.449	2.449	0.000	99	616658	250.0	236.8	
24 Iodomethane	142	2.491	2.481	0.010	99	789324	50.0	46.6	
25 Carbon disulfide	76	2.512	2.512	0.000	100	1239998	50.0	48.6	
27 3-Chloro-1-propene	41	2.667	2.667	0.000	86	511773	50.0	48.2	
28 Methyl acetate	43	2.719	2.709	0.010	97	643899	100.0	92.4	
30 Methylene Chloride	84	2.812	2.802	0.010	91	438297	50.0	47.8	
31 2-Methyl-2-propanol	59	2.978	2.978	0.000	100	609048	500.0	541.0	
33 Methyl tert-butyl ether	73	2.999	2.988	0.011	99	1229890	50.0	47.0	
32 trans-1,2-Dichloroethene	96	2.999	2.999	0.000	98	441340	50.0	48.6	
34 Acrylonitrile	53	3.061	3.061	0.000	99	1792660	500.0	472.7	
35 Hexane	57	3.164	3.165	-0.001	90	569729	50.0	45.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.361	3.361	0.000	96	724812	50.0	49.1	
39 Vinyl acetate	43	3.403	3.403	0.000	97	1518680	100.0	108.3	
42 2,2-Dichloropropane	77	3.807	3.807	0.000	90	580535	50.0	48.8	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	78	495363	50.0	48.5	
44 2-Butanone (MEK)	43	3.859	3.859	0.000	99	1050691	250.0	240.2	
47 Chlorobromomethane	128	4.025	4.025	0.000	88	273259	50.0	48.3	
48 Tetrahydrofuran	42	4.035	4.035	0.000	85	289824	100.0	89.1	
50 Chloroform	83	4.097	4.097	0.000	93	741863	50.0	47.1	
51 1,1,1-Trichloroethane	97	4.180	4.180	0.000	91	605234	50.0	52.9	
52 Cyclohexane	56	4.190	4.180	0.010	89	690911	50.0	49.8	
54 1,1-Dichloropropene	75	4.304	4.294	0.010	95	556202	50.0	48.8	
53 Carbon tetrachloride	117	4.294	4.294	0.000	97	466812	50.0	53.4	
55 Benzene	78	4.470	4.470	0.000	97	1661056	50.0	47.1	
56 Isobutyl alcohol	43	4.491	4.491	0.000	93	471334	1250.0	1569.3	
57 1,2-Dichloroethane	62	4.522	4.522	0.000	98	599428	50.0	48.1	
59 n-Heptane	43	4.605	4.605	0.000	89	588080	50.0	46.9	
60 Trichloroethene	95	4.947	4.947	0.000	95	447749	50.0	47.4	
62 Methylcyclohexane	83	5.040	5.040	0.000	89	727107	50.0	48.4	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	94	419009	50.0	48.8	
65 Dibromomethane	93	5.247	5.247	0.000	93	293590	50.0	49.7	
66 1,4-Dioxane	88	5.258	5.258	0.000	44	155220	1000.0	994.8	
67 Dichlorobromomethane	83	5.372	5.372	0.000	98	466260	50.0	54.3	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	92	319052	50.0	49.7	
71 cis-1,3-Dichloropropene	75	5.683	5.683	0.000	96	670384	50.0	52.4	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	2414093	250.0	250.4	
73 Toluene	92	5.900	5.900	0.000	98	1116345	50.0	47.0	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	92	630686	50.0	53.3	
77 Ethyl methacrylate	69	6.149	6.149	0.000	87	588205	50.0	54.1	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	90	345409	50.0	48.4	
79 Tetrachloroethene	166	6.304	6.305	-0.001	97	513622	50.0	49.5	
80 1,3-Dichloropropane	76	6.387	6.387	0.000	89	697755	50.0	47.3	
81 2-Hexanone	43	6.429	6.429	0.000	94	1703575	250.0	256.7	
82 Chlorodibromomethane	129	6.564	6.564	0.000	89	349351	50.0	60.9	
83 Ethylene Dibromide	107	6.646	6.647	0.000	98	454613	50.0	51.5	
86 Chlorobenzene	112	6.999	6.999	0.000	96	1282735	50.0	47.2	
88 Ethylbenzene	91	7.061	7.061	0.000	98	2097532	50.0	47.8	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	93	404989	50.0	59.0	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	859192	50.0	48.6	
91 o-Xylene	106	7.465	7.465	0.000	97	848766	50.0	47.8	
92 Styrene	104	7.486	7.486	0.000	96	1475521	50.0	49.4	
93 Bromoform	173	7.683	7.683	0.000	96	208851	50.0	63.9	M
95 Isopropylbenzene	105	7.755	7.755	0.000	95	2188031	50.0	47.2	
97 Bromobenzene	156	8.025	8.025	0.000	89	611443	50.0	47.6	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	96	585940	50.0	49.1	
99 N-Propylbenzene	91	8.077	8.077	0.000	99	2529434	50.0	46.9	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	88	207921	50.0	50.1	
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	86	173398	50.0	49.7	
105 2-Chlorotoluene	126	8.170	8.170	0.000	97	554430	50.0	47.2	
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	95	1892594	50.0	48.0	
102 4-Chlorotoluene	91	8.253	8.253	0.000	98	1766990	50.0	47.1	
106 tert-Butylbenzene	134	8.481	8.481	0.000	91	445227	50.0	47.7	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	96	1940977	50.0	47.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	94	2408733	50.0	47.6	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	97	2176582	50.0	48.9	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	98	1194306	50.0	47.7	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	96	1198792	50.0	46.9	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	1884251	50.0	48.4	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	99	1191423	50.0	48.0	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	87	86612	50.0	60.6	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	94	855481	50.0	47.1	
120 Hexachlorobutadiene	225	10.584	10.584	0.000	97	370391	50.0	48.1	
121 Naphthalene	128	10.688	10.688	0.000	97	2445422	50.0	47.7	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	96	849108	50.0	46.6	
S 123 1,3-Dichloropropene, Total	1				0			105.8	
S 125 Total BTEX	1				0			238.3	
S 126 Xylenes, Total	1				0			96.4	
S 124 1,2-Dichloroethene, Total	1				0			97.2	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

8260 CORP mix\_00159

Amount Added: 25.00

Units: uL

GAS CORP mix\_00349

Amount Added: 25.00

Units: uL

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00222

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2793.D

Injection Date: 08-Jul-2019 17:11:30

Instrument ID: HP5975T

Operator ID: KN

Lims ID: IC 6

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

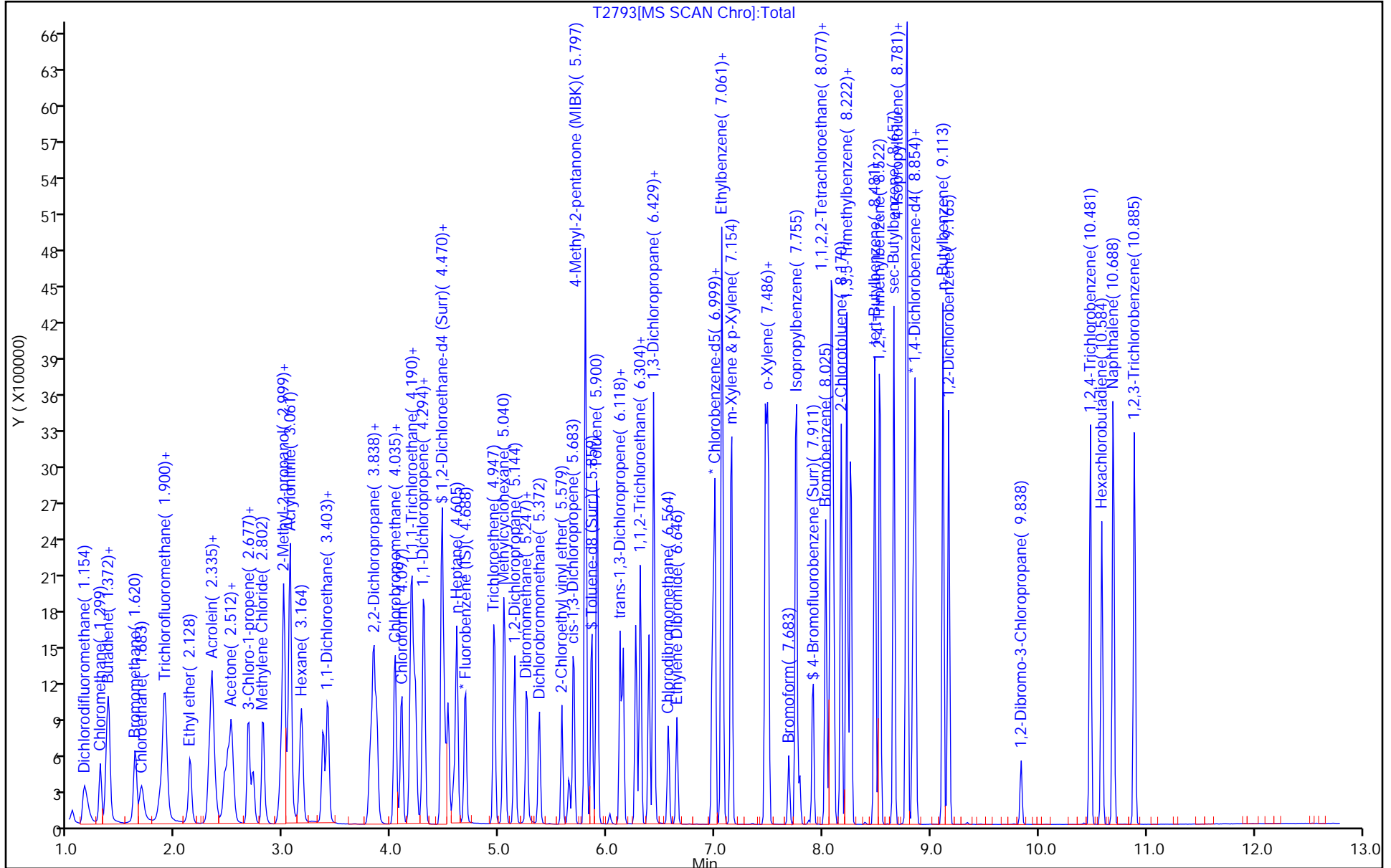
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)





Eurofins TestAmerica, Buffalo

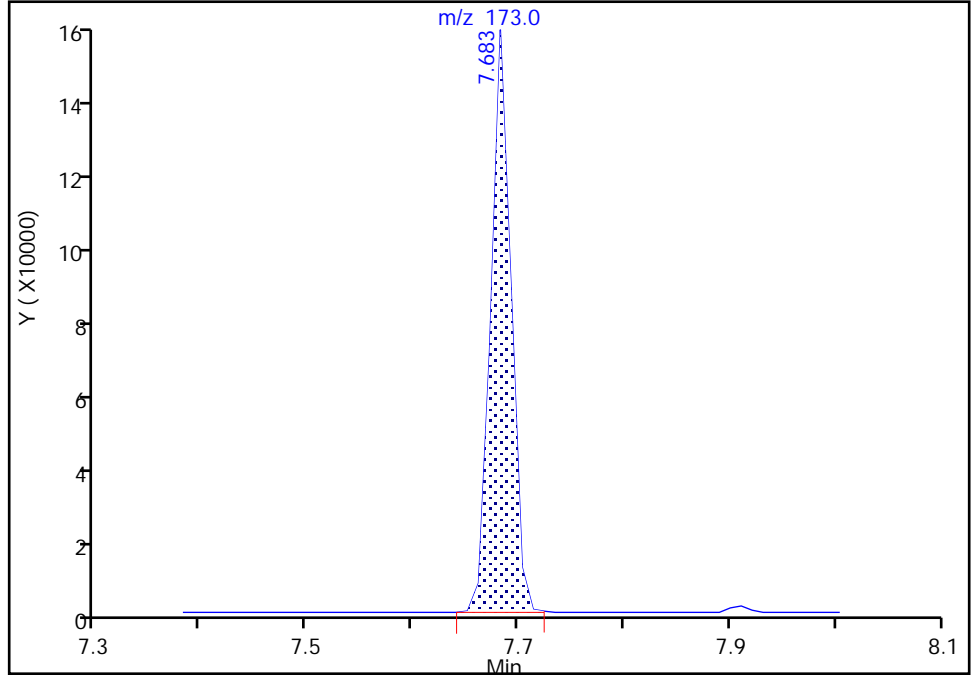
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Injection Date: 08-Jul-2019 17:11:30 Instrument ID: HP5975T  
Lims ID: IC 6  
Client ID:  
Operator ID: KN ALS Bottle#: 11 Worklist Smp#: 11  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

93 Bromoform, CAS: 75-25-2

Signal: 1

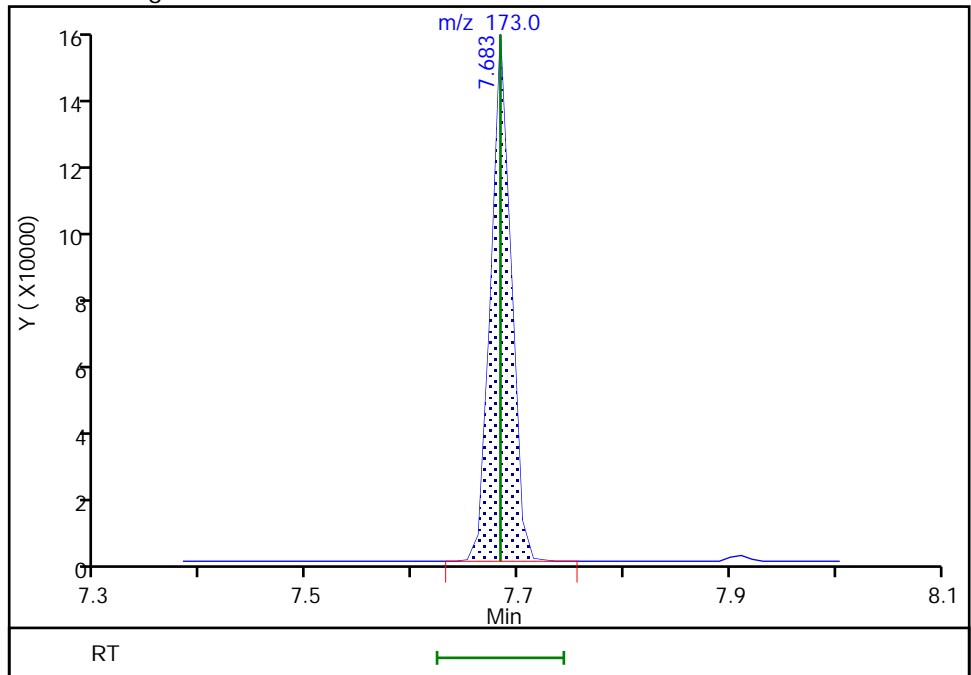
RT: 7.68  
Area: 208893  
Amount: 58.745871  
Amount Units: ug/L

Processing Integration Results



RT: 7.68  
Area: 208851  
Amount: 63.931053  
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 09-Jul-2019 09:45:58  
Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2794.D  
 Lims ID: IC 7  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 08-Jul-2019 17:35:30 ALS Bottle#: 12 Worklist Smp#: 12  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: ic 7  
 Misc. Info.: 480-0082467-012  
 Operator ID: KN Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:50:44 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: farrellr

Date: 09-Jul-2019 08:59:35

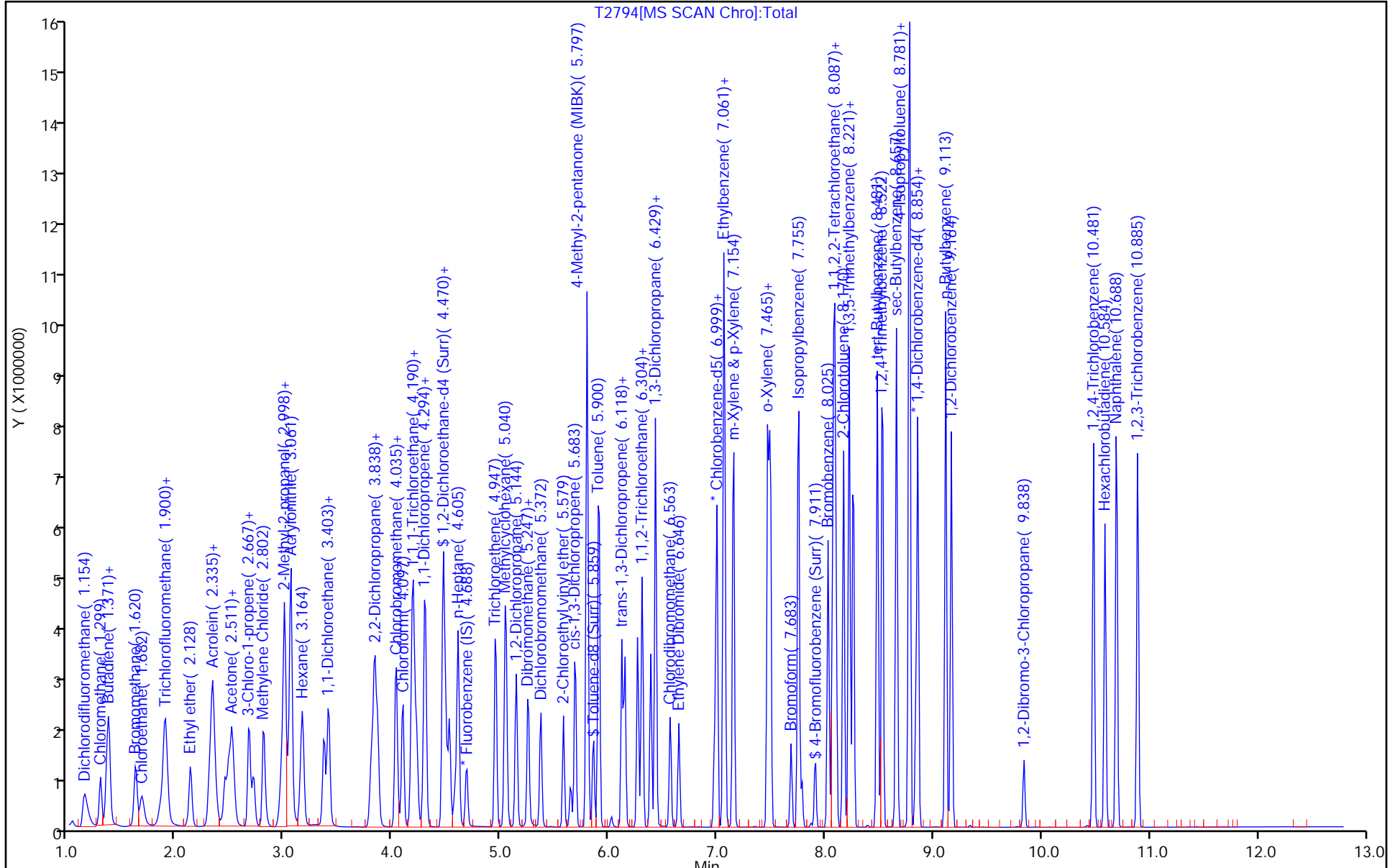
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.678	0.010	99	168296	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	83	754344	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	446356	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.222	-0.001	57	246679	25.0	26.5	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.460	0.010	0	262388	25.0	24.5	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.849	0.010	92	913408	25.0	24.7	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	329192	25.0	26.5	
11 Dichlorodifluoromethane	85	1.154	1.144	0.010	99	1197542	100.0	106.6	
13 Chloromethane	50	1.299	1.289	0.010	99	1033721	100.0	99.5	
151 Butadiene	54	1.361	1.361	0.000	91	951227	100.0	104.1	
14 Vinyl chloride	62	1.382	1.382	0.000	98	1087503	100.0	102.0	
15 Bromomethane	94	1.620	1.620	0.000	92	897279	100.0	101.4	
16 Chloroethane	64	1.682	1.672	0.010	99	732302	100.0	102.8	
18 Dichlorofluoromethane	67	1.890	1.890	0.000	97	1632941	100.0	92.4	
17 Trichlorofluoromethane	101	1.900	1.890	0.010	99	1770401	100.0	98.6	
19 Ethyl ether	59	2.128	2.128	0.000	90	765358	100.0	92.0	
21 Acrolein	56	2.304	2.304	0.000	100	704326	500.0	476.7	
20 1,1,2-Trichloro-1,2,2-trif	101	2.335	2.335	0.000	68	908698	100.0	110.7	
22 1,1-Dichloroethene	96	2.335	2.335	0.000	98	802235	100.0	103.9	
23 Acetone	43	2.449	2.449	0.000	100	1329552	500.0	511.3	
24 Iodomethane	142	2.491	2.481	0.010	99	1724012	100.0	102.0	
25 Carbon disulfide	76	2.511	2.512	-0.001	100	2764187	100.0	108.4	
27 3-Chloro-1-propene	41	2.667	2.667	0.000	87	1135356	100.0	107.0	
28 Methyl acetate	43	2.719	2.709	0.010	97	1368808	200.0	196.8	
30 Methylene Chloride	84	2.812	2.802	0.010	91	940046	100.0	103.3	
31 2-Methyl-2-propanol	59	2.967	2.978	-0.011	98	1433789	1000.0	1275.3	
33 Methyl tert-butyl ether	73	2.988	2.988	0.000	98	2597944	100.0	99.4	
32 trans-1,2-Dichloroethene	96	2.998	2.999	-0.001	97	948455	100.0	104.7	
34 Acrylonitrile	53	3.061	3.061	0.000	99	3775665	1000.0	996.9	
35 Hexane	57	3.164	3.165	-0.001	90	1277208	100.0	102.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.361	3.361	0.000	96	1539243	100.0	104.4	
39 Vinyl acetate	43	3.403	3.403	0.000	97	3395759	200.0	242.5	
42 2,2-Dichloropropane	77	3.807	3.807	0.000	90	1283580	100.0	108.0	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	80	1058651	100.0	103.8	
44 2-Butanone (MEK)	43	3.859	3.859	0.000	99	2229969	500.0	510.5	
47 Chlorobromomethane	128	4.035	4.025	0.010	87	583667	100.0	103.4	
48 Tetrahydrofuran	42	4.035	4.035	0.000	85	620107	200.0	190.8	
50 Chloroform	83	4.097	4.097	0.000	93	1592266	100.0	101.2	
51 1,1,1-Trichloroethane	97	4.190	4.180	0.010	97	1401427	100.0	122.6	
52 Cyclohexane	56	4.190	4.180	0.010	90	1537272	100.0	110.9	
54 1,1-Dichloropropene	75	4.304	4.294	0.010	96	1221870	100.0	107.3	
53 Carbon tetrachloride	117	4.294	4.294	0.000	97	1163086	100.0	133.3	
55 Benzene	78	4.470	4.470	0.000	96	3529551	100.0	100.1	
56 Isobutyl alcohol	43	4.491	4.491	0.000	94	1162673	2500.0	3876.1	
57 1,2-Dichloroethane	62	4.522	4.522	0.000	98	1241969	100.0	99.7	
59 n-Heptane	43	4.605	4.605	0.000	90	1313631	100.0	105.0	
60 Trichloroethene	95	4.947	4.947	0.000	95	967106	100.0	102.5	
62 Methylcyclohexane	83	5.040	5.040	0.000	89	1666272	100.0	111.1	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	95	884950	100.0	103.2	
65 Dibromomethane	93	5.247	5.247	0.000	93	636346	100.0	107.9	
66 1,4-Dioxane	88	5.247	5.258	-0.011	92	335894	2000.0	2093.4	
67 Dichlorobromomethane	83	5.372	5.372	0.000	98	1086684	100.0	126.7	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	93	672763	100.0	104.9	
71 cis-1,3-Dichloropropene	75	5.683	5.683	-0.001	96	1477330	100.0	115.7	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	-0.001	95	5043250	500.0	508.6	
73 Toluene	92	5.900	5.900	0.000	98	2398006	100.0	98.2	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	92	1406962	100.0	115.7	
77 Ethyl methacrylate	69	6.149	6.149	0.000	88	1291873	100.0	115.6	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	90	727576	100.0	99.1	
79 Tetrachloroethene	166	6.304	6.305	-0.001	98	1153520	100.0	108.0	
80 1,3-Dichloropropane	76	6.387	6.387	0.000	88	1478046	100.0	97.5	
81 2-Hexanone	43	6.429	6.429	0.000	94	3583258	500.0	525.1	
82 Chlorodibromomethane	129	6.563	6.564	-0.001	90	880797	100.0	149.3	
83 Ethylene Dibromide	107	6.646	6.647	0.000	98	997039	100.0	109.7	
86 Chlorobenzene	112	6.999	6.999	0.000	96	2737983	100.0	97.9	
88 Ethylbenzene	91	7.061	7.061	0.000	97	4509828	100.0	100.0	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	95	955241	100.0	135.2	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	1873225	100.0	103.0	
91 o-Xylene	106	7.465	7.465	0.000	97	1864579	100.0	102.2	
92 Styrene	104	7.496	7.486	0.010	95	3159227	100.0	102.8	
93 Bromoform	173	7.683	7.683	0.000	97	573663	100.0	170.8	
95 Isopropylbenzene	105	7.755	7.755	0.000	95	4778097	100.0	99.1	
97 Bromobenzene	156	8.025	8.025	0.000	89	1336108	100.0	100.0	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	96	1278192	100.0	103.0	
99 N-Propylbenzene	91	8.076	8.077	-0.001	99	5468841	100.0	97.7	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	87	439355	100.0	101.8	
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	83	389475	100.0	107.3	
105 2-Chlorotoluene	126	8.170	8.170	0.000	97	1188913	100.0	97.4	
104 1,3,5-Trimethylbenzene	105	8.221	8.222	-0.001	96	4048757	100.0	98.9	
102 4-Chlorotoluene	91	8.253	8.253	0.000	98	3826652	100.0	98.1	
106 tert-Butylbenzene	134	8.481	8.481	0.000	91	993535	100.0	102.4	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	97	4176757	100.0	97.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	94	5346269	100.0	101.7	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	96	4755916	100.0	102.8	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	98	2589092	100.0	99.4	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	97	2608714	100.0	98.1	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	4151072	100.0	102.6	
116 1,2-Dichlorobenzene	146	9.164	9.165	-0.001	99	2592868	100.0	100.4	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	90	219789	100.0	147.9	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	95	1905428	100.0	101.0	
120 Hexachlorobutadiene	225	10.584	10.584	0.000	98	853128	100.0	106.7	
121 Naphthalene	128	10.688	10.688	0.000	97	5194726	100.0	97.4	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	96	1879474	100.0	99.3	
S 123 1,3-Dichloropropene, Total	1				0			231.4	
S 125 Total BTEX	1				0			503.4	
S 126 Xylenes, Total	1				0			205.1	
S 124 1,2-Dichloroethene, Total	1				0			208.5	

**Reagents:**

8260 CORP mix_00159	Amount Added: 50.00	Units: uL	
GAS CORP mix_00349	Amount Added: 50.00	Units: uL	
T_8260_Surr_00193	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00222	Amount Added: 1.00	Units: uL	Run Reagent



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-482537/3 Calibration Date: 07/17/2019 20:06  
 Instrument ID: HP5975T Calib Start Date: 07/08/2019 14:46  
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 07/08/2019 17:35  
 Lab File ID: T3125.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.669	1.214	0.1000	18.2	25.0	-27.3	50.0
Chloromethane	Ave	1.543	1.196	0.1000	19.4	25.0	-22.5*	20.0
Butadiene	Ave	1.357	1.223		22.5	25.0	-9.9	20.0
Vinyl chloride	Ave	1.583	1.278	0.1000	20.2	25.0	-19.3	20.0
Bromomethane	Ave	1.314	0.9823	0.1000	18.7	25.0	-25.3	50.0
Chloroethane	Ave	1.058	0.7568	0.1000	17.9	25.0	-28.5	50.0
Dichlorofluoromethane	Ave	2.626	2.045		19.5	25.0	-22.1*	20.0
Trichlorofluoromethane	Ave	2.668	2.141	0.1000	20.1	25.0	-19.7	20.0
Ethyl ether	Ave	1.235	1.065		21.5	25.0	-13.8	20.0
Acrolein	Ave	0.2195	0.2414		137	125	10.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.219	1.292	0.1000	26.5	25.0	6.0	20.0
1,1-Dichloroethene	Ave	1.147	1.106	0.1000	24.1	25.0	-3.5	20.0
Acetone	Ave	0.3863	0.5735	0.1000	186	125	48.5	50.0
Iodomethane	Ave	2.511	2.588		25.8	25.0	3.0	20.0
Carbon disulfide	Ave	3.787	3.754	0.1000	24.8	25.0	-0.9	20.0
Allyl chloride	Ave	1.576	1.509		23.9	25.0	-4.2	20.0
Methyl acetate	Ave	1.033	1.030	0.1000	49.8	50.0	-0.3	50.0
Methylene Chloride	Lin1		1.514	0.1000	27.6	25.0	10.6	20.0
2-Methyl-2-propanol	Ave	0.1670	0.1600		240	250	-4.2	50.0
Methyl tert-butyl ether	Ave	3.883	3.808	0.1000	24.5	25.0	-1.9	20.0
trans-1,2-Dichloroethene	Ave	1.346	1.315	0.1000	24.4	25.0	-2.3	20.0
Acrylonitrile	Ave	0.5626	0.5827		259	250	3.6	20.0
Hexane	Ave	1.852	1.821		24.6	25.0	-1.7	20.0
1,1-Dichloroethane	Ave	2.190	2.183	0.2000	24.9	25.0	-0.3	20.0
Vinyl acetate	Ave	2.081	1.739		41.8	50.0	-16.4	20.0
2,2-Dichloropropane	Ave	1.766	1.669		23.6	25.0	-5.5	20.0
cis-1,2-Dichloroethene	Ave	1.515	1.428	0.1000	23.6	25.0	-5.7	20.0
2-Butanone (MEK)	Ave	0.6489	0.7845	0.1000	151	125	20.9*	20.0
Bromochloromethane	Ave	0.8388	0.8561		25.5	25.0	2.1	20.0
Tetrahydrofuran	Ave	0.4828	0.4815		49.9	50.0	-0.3	20.0
Chloroform	Ave	2.336	2.271	0.2000	24.3	25.0	-2.8	20.0
1,1,1-Trichloroethane	Ave	1.698	1.797	0.1000	26.5	25.0	5.8	20.0
Cyclohexane	Ave	2.060	2.070	0.1000	25.1	25.0	0.5	20.0
1,1-Dichloropropene	Ave	1.692	1.698		25.1	25.0	0.4	20.0
Carbon tetrachloride	Ave	1.296	1.408	0.1000	27.2	25.0	8.7	20.0
Benzene	Ave	5.236	4.938	0.5000	23.6	25.0	-5.7	20.0
Isobutyl alcohol	Ave	0.0446	0.0448		628	625	0.5	50.0
1,2-Dichloroethane	Ave	1.850	1.858	0.1000	25.1	25.0	0.4	20.0
n-Heptane	Ave	1.859	1.839		24.7	25.0	-1.1	20.0
Trichloroethene	Ave	1.401	1.359	0.2000	24.3	25.0	-3.0	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-482537/3 Calibration Date: 07/17/2019 20:06  
 Instrument ID: HP5975T Calib Start Date: 07/08/2019 14:46  
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 07/08/2019 17:35  
 Lab File ID: T3125.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.228	2.245	0.1000	25.2	25.0	0.8	20.0
1,2-Dichloropropane	Ave	1.273	1.229	0.1000	24.1	25.0	-3.5	20.0
1,4-Dioxane	Ave	0.0053	0.0061		573	500	14.6	50.0
Dibromomethane	Ave	0.8764	0.9243	0.1000	26.4	25.0	5.5	20.0
Bromodichloromethane	Ave	1.274	1.428	0.2000	28.0	25.0	12.1	20.0
2-Chloroethyl vinyl ether	Ave	0.9524	1.027		26.9	25.0	7.8	20.0
cis-1,3-Dichloropropene	Ave	1.897	1.897	0.2000	25.0	25.0	-0.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3286	0.3607	0.1000	137	125	9.8	20.0
Toluene	Ave	0.8092	0.7646	0.4000	23.6	25.0	-5.5	20.0
trans-1,3-Dichloropropene	Ave	0.4031	0.4107	0.1000	25.5	25.0	1.9	20.0
Ethyl methacrylate	Ave	0.3703	0.3594		24.3	25.0	-3.0	20.0
1,1,2-Trichloroethane	Ave	0.2434	0.2455	0.1000	25.2	25.0	0.9	20.0
Tetrachloroethene	Ave	0.3539	0.3858	0.2000	27.3	25.0	9.0	20.0
1,3-Dichloropropane	Ave	0.5024	0.4903		24.4	25.0	-2.4	20.0
2-Hexanone	Ave	0.2261	0.2676	0.1000	148	125	18.3	20.0
Dibromochloromethane	Ave	0.1955	0.2417	0.1000	30.9	25.0	23.6*	20.0
1,2-Dibromoethane	Ave	0.3011	0.3169		26.3	25.0	5.2	20.0
Chlorobenzene	Ave	0.9270	0.9000	0.5000	24.3	25.0	-2.9	20.0
Ethylbenzene	Ave	1.495	1.454	0.1000	24.3	25.0	-2.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2341	0.2571		27.5	25.0	9.8	20.0
m,p-Xylene	Ave	0.6030	0.6005	0.1000	24.9	25.0	-0.4	20.0
o-Xylene	Ave	0.6047	0.5857	0.3000	24.2	25.0	-3.2	20.0
Styrene	Ave	1.019	0.995	0.3000	24.4	25.0	-2.3	20.0
Bromoform	Ave	0.1113	0.1434	0.1000	32.2	25.0	28.8	50.0
Isopropylbenzene	Ave	2.700	2.599	0.1000	24.1	25.0	-3.7	20.0
Bromobenzene	Ave	0.7480	0.7423		24.8	25.0	-0.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6952	0.7116	0.3000	25.6	25.0	2.4	20.0
N-Propylbenzene	Ave	3.136	3.045		24.3	25.0	-2.9	20.0
1,2,3-Trichloropropane	Ave	0.2417	0.2616		27.1	25.0	8.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2032	0.1492		18.4	25.0	-26.6	50.0
2-Chlorotoluene	Ave	0.6837	0.6700		24.5	25.0	-2.0	20.0
1,3,5-Trimethylbenzene	Ave	2.294	2.223		24.2	25.0	-3.1	20.0
4-Chlorotoluene	Ave	2.184	2.099		24.0	25.0	-3.9	20.0
tert-Butylbenzene	Ave	0.5436	0.5280		24.3	25.0	-2.9	20.0
1,2,4-Trimethylbenzene	Ave	2.389	2.238		23.4	25.0	-6.3	20.0
sec-Butylbenzene	Ave	2.943	2.837		24.1	25.0	-3.6	20.0
4-Isopropyltoluene	Ave	2.591	2.613		25.2	25.0	0.8	20.0
1,3-Dichlorobenzene	Ave	1.459	1.424	0.6000	24.4	25.0	-2.4	20.0
1,4-Dichlorobenzene	Ave	1.489	1.472	0.5000	24.7	25.0	-1.1	20.0
n-Butylbenzene	Ave	2.265	2.265		25.0	25.0	0.0	20.0
1,2-Dichlorobenzene	Ave	1.446	1.418	0.4000	24.5	25.0	-2.0	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-482537/3 Calibration Date: 07/17/2019 20:06  
 Instrument ID: HP5975T Calib Start Date: 07/08/2019 14:46  
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 07/08/2019 17:35  
 Lab File ID: T3125.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.0833	0.1013	0.0500	30.4	25.0	21.7	50.0
1,2,4-Trichlorobenzene	Ave	1.057	1.137	0.2000	26.9	25.0	7.6	20.0
Hexachlorobutadiene	Ave	0.4480	0.5249		29.3	25.0	17.2	20.0
Naphthalene	Ave	2.987	3.094		25.9	25.0	3.6	20.0
1,2,3-Trichlorobenzene	Ave	1.060	1.122		26.5	25.0	5.9	20.0
Dibromofluoromethane (Surr)	Ave	1.382	1.387		25.1	25.0	0.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.588	1.590		25.0	25.0	0.1	20.0
Toluene-d8 (Surr)	Ave	1.226	1.192		24.3	25.0	-2.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4113	0.4349		26.4	25.0	5.7	20.0



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3125.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 17-Jul-2019 20:06:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 480-0082700-003  
 Operator ID: AEM Instrument ID: HP5975T  
 Sublist: chrom-T-8260\*sub48  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 01:54:39 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0339

First Level Reviewer: milligana

Date: 17-Jul-2019 20:42:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	181521	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	784358	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	452684	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.222	0.000	93	251850	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	288616	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	92	934652	25.0	24.3	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	341121	25.0	26.4	
11 Dichlorodifluoromethane	85	1.164	1.164	0.000	99	220315	25.0	18.2	
13 Chloromethane	50	1.320	1.320	0.000	98	217166	25.0	19.4	
151 Butadiene	54	1.382	1.382	0.000	88	221957	25.0	22.5	M
14 Vinyl chloride	62	1.403	1.403	0.000	98	231985	25.0	20.2	
15 Bromomethane	94	1.641	1.641	0.000	93	178307	25.0	18.7	
16 Chloroethane	64	1.703	1.703	0.000	100	137373	25.0	17.9	M
18 Dichlorofluoromethane	67	1.911	1.911	0.000	98	371174	25.0	19.5	
17 Trichlorofluoromethane	101	1.921	1.921	0.000	98	388711	25.0	20.1	
19 Ethyl ether	59	2.149	2.149	0.000	89	193286	25.0	21.5	
21 Acrolein	56	2.325	2.325	0.000	99	219098	125.0	137.5	
20 1,1,2-Trichloro-1,2,2-trif	101	2.346	2.346	0.000	72	234614	25.0	26.5	
22 1,1-Dichloroethene	96	2.346	2.346	0.000	98	200765	25.0	24.1	
23 Acetone	43	2.460	2.460	0.000	100	520509	125.0	185.6	
24 Iodomethane	142	2.501	2.501	0.000	99	469712	25.0	25.8	
25 Carbon disulfide	76	2.532	2.532	0.000	100	681467	25.0	24.8	
27 3-Chloro-1-propene	41	2.677	2.677	0.000	85	273980	25.0	23.9	
28 Methyl acetate	43	2.719	2.719	0.000	97	374021	50.0	49.8	
30 Methylene Chloride	84	2.823	2.823	0.000	92	274833	25.0	27.6	
31 2-Methyl-2-propanol	59	2.988	2.988	0.000	54	290435	250.0	239.5	
33 Methyl tert-butyl ether	73	3.009	3.009	0.000	98	691305	25.0	24.5	
32 trans-1,2-Dichloroethene	96	3.009	3.009	0.000	99	238682	25.0	24.4	
34 Acrylonitrile	53	3.071	3.071	0.000	99	1057625	250.0	258.9	
35 Hexane	57	3.175	3.175	0.000	91	330583	25.0	24.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.372	3.372	0.000	96	396203	25.0	24.9	
39 Vinyl acetate	43	3.413	3.413	0.000	97	631448	50.0	41.8	
42 2,2-Dichloropropane	77	3.817	3.817	0.000	89	303006	25.0	23.6	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	81	259211	25.0	23.6	
44 2-Butanone (MEK)	43	3.869	3.869	0.000	99	711970	125.0	151.1	
47 Chlorobromomethane	128	4.035	4.035	0.000	87	155404	25.0	25.5	
48 Tetrahydrofuran	42	4.045	4.045	0.000	86	174808	50.0	49.9	
50 Chloroform	83	4.097	4.097	0.000	94	412241	25.0	24.3	
51 1,1,1-Trichloroethane	97	4.190	4.190	0.000	91	326263	25.0	26.5	
52 Cyclohexane	56	4.190	4.190	0.000	90	375794	25.0	25.1	
53 Carbon tetrachloride	117	4.304	4.304	0.000	97	255600	25.0	27.2	
54 1,1-Dichloropropene	75	4.304	4.304	0.000	95	308306	25.0	25.1	
55 Benzene	78	4.470	4.470	0.000	96	896432	25.0	23.6	
56 Isobutyl alcohol	43	4.491	4.491	0.000	90	203189	625.0	628.0	
57 1,2-Dichloroethane	62	4.532	4.532	0.000	97	337280	25.0	25.1	
59 n-Heptane	43	4.605	4.605	0.000	88	333764	25.0	24.7	
60 Trichloroethene	95	4.957	4.957	0.000	95	246766	25.0	24.3	
62 Methylcyclohexane	83	5.051	5.051	0.000	89	407600	25.0	25.2	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	93	223027	25.0	24.1	
65 Dibromomethane	93	5.258	5.258	0.000	91	167788	25.0	26.4	
66 1,4-Dioxane	88	5.258	5.258	0.000	93	95570	500.0	572.8	
67 Dichlorobromomethane	83	5.372	5.372	0.000	98	259219	25.0	28.0	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	93	186356	25.0	26.9	
71 cis-1,3-Dichloropropene	75	5.693	5.693	0.000	95	344265	25.0	25.0	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	96	1414698	125.0	137.2	
73 Toluene	92	5.911	5.911	0.000	98	599711	25.0	23.6	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	94	322140	25.0	25.5	
77 Ethyl methacrylate	69	6.149	6.149	0.000	88	281857	25.0	24.3	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	91	192558	25.0	25.2	
79 Tetrachloroethene	166	6.305	6.305	0.000	97	302604	25.0	27.3	
80 1,3-Dichloropropane	76	6.387	6.387	0.000	90	384552	25.0	24.4	
81 2-Hexanone	43	6.429	6.429	0.000	94	1049409	125.0	147.9	
82 Chlorodibromomethane	129	6.564	6.564	0.000	89	189586	25.0	30.9	
83 Ethylene Dibromide	107	6.647	6.647	0.000	100	248580	25.0	26.3	
86 Chlorobenzene	112	6.999	6.999	0.000	96	705926	25.0	24.3	
88 Ethylbenzene	91	7.061	7.061	0.000	98	1140597	25.0	24.3	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	92	201638	25.0	27.5	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	470990	25.0	24.9	
91 o-Xylene	106	7.465	7.465	0.000	97	459374	25.0	24.2	
92 Styrene	104	7.496	7.496	0.000	94	780753	25.0	24.4	
93 Bromoform	173	7.683	7.683	0.000	97	112484	25.0	32.2	
95 Isopropylbenzene	105	7.755	7.755	0.000	95	1176731	25.0	24.1	
97 Bromobenzene	156	8.025	8.025	0.000	89	336006	25.0	24.8	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	94	322124	25.0	25.6	
99 N-Propylbenzene	91	8.077	8.077	0.000	99	1378378	25.0	24.3	
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	78	67537	25.0	18.4	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	89	118424	25.0	27.1	
105 2-Chlorotoluene	126	8.170	8.170	0.000	97	303306	25.0	24.5	
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	94	1006380	25.0	24.2	
102 4-Chlorotoluene	91	8.253	8.253	0.000	98	950107	25.0	24.0	
106 tert-Butylbenzene	134	8.481	8.481	0.000	91	238996	25.0	24.3	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	96	1013247	25.0	23.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.657	8.657	0.000	94	1284386	25.0	24.1	
111 4-Isopropyltoluene	119	8.771	8.771	0.000	97	1183060	25.0	25.2	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	99	644720	25.0	24.4	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	96	666372	25.0	24.7	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	1025338	25.0	25.0	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	99	641696	25.0	24.5	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	86	45873	25.0	30.4	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	94	514726	25.0	26.9	
120 Hexachlorobutadiene	225	10.584	10.584	0.000	98	237627	25.0	29.3	
121 Naphthalene	128	10.688	10.688	0.000	97	1400377	25.0	25.9	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	96	507822	25.0	26.5	

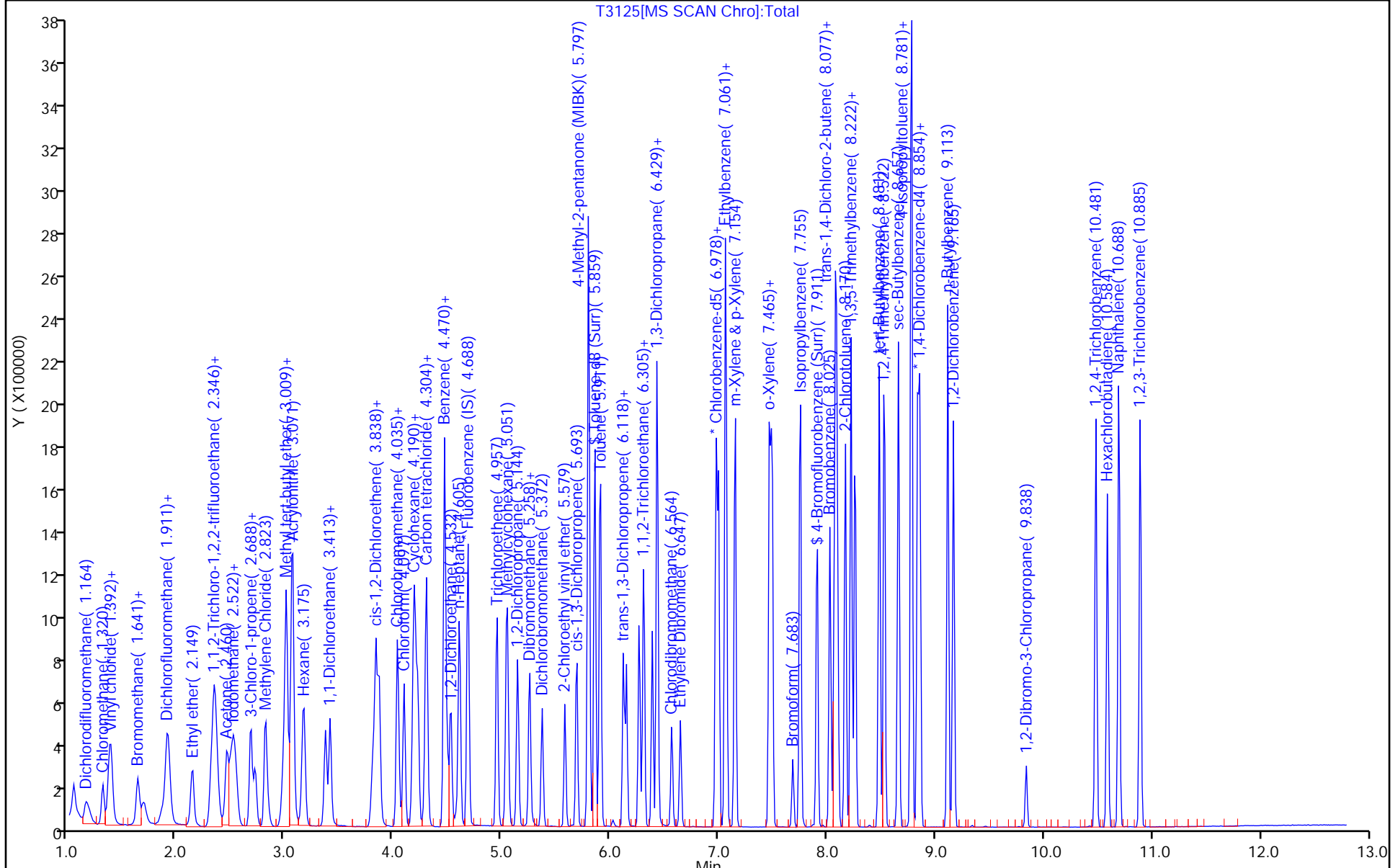
### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

8260 CORP mix_00160	Amount Added: 12.50	Units: uL	
GAS CORP mix_00350	Amount Added: 12.50	Units: uL	
T_8260_Surr_00193	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00223	Amount Added: 1.00	Units: uL	Run Reagent



Eurofins TestAmerica, Buffalo

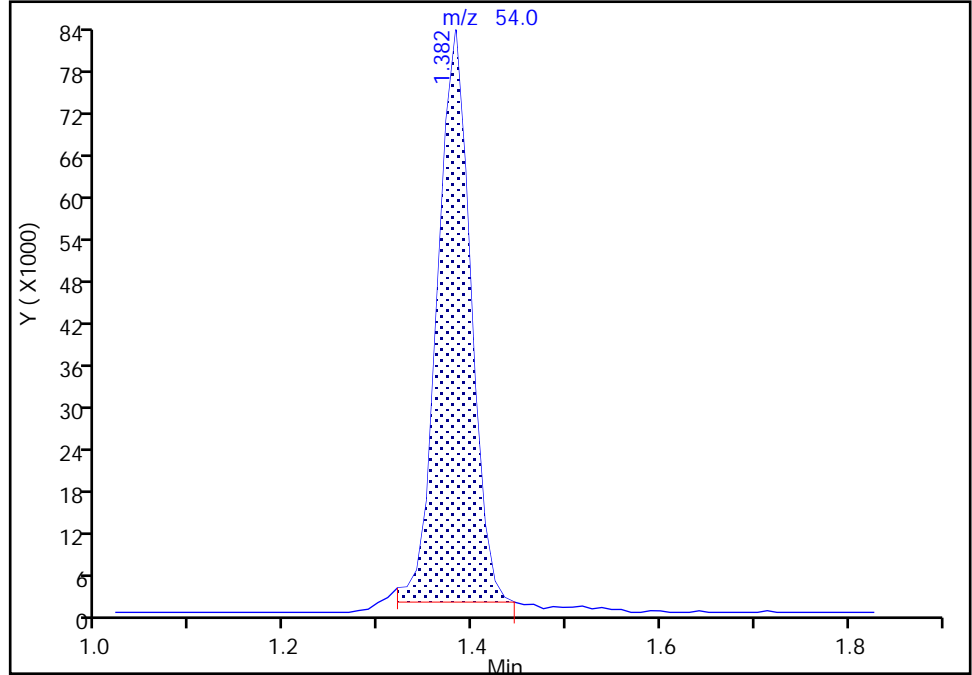
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Injection Date: 17-Jul-2019 20:06:30 Instrument ID: HP5975T  
Lims ID: CCVIS  
Client ID:  
Operator ID: AEM ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

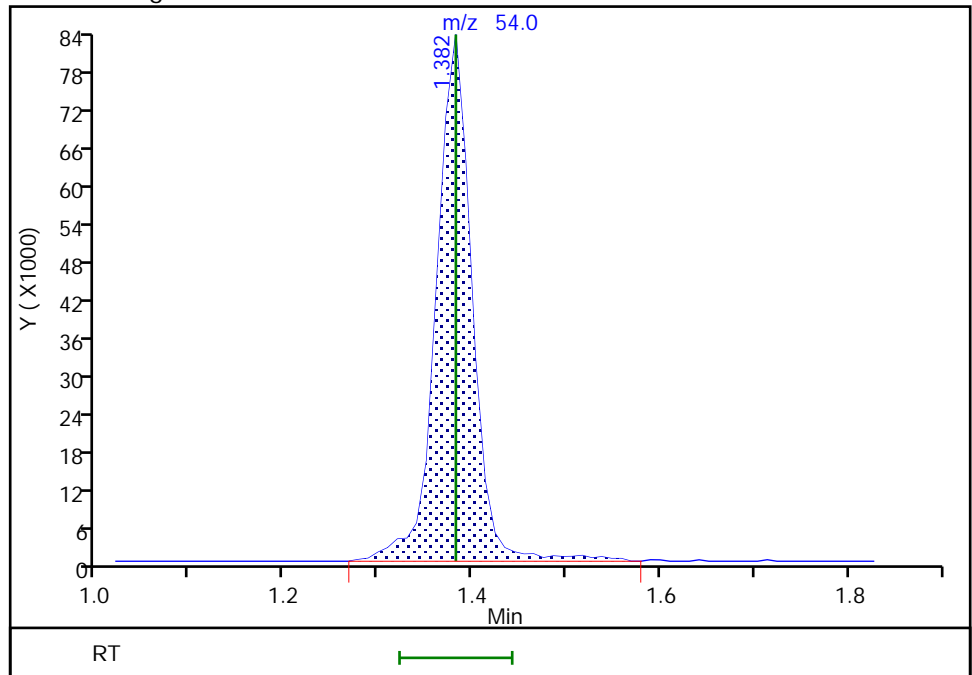
RT: 1.38  
Area: 202319  
Amount: 20.536622  
Amount Units: ug/L

Processing Integration Results



RT: 1.38  
Area: 221957  
Amount: 22.529999  
Amount Units: ug/L

Manual Integration Results



Reviewer: milligana, 17-Jul-2019 20:37:42  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Buffalo

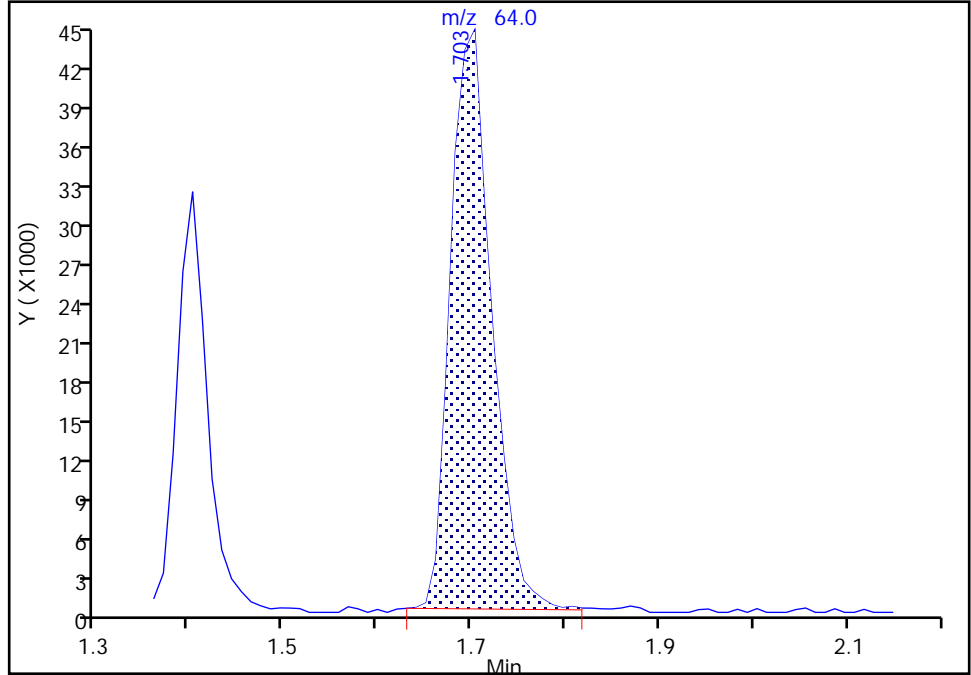
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Injection Date: 17-Jul-2019 20:06:30 Instrument ID: HP5975T  
Lims ID: CCVIS  
Client ID:  
Operator ID: AEM ALS Bottle#: 3 Worklist Smp#: 3  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

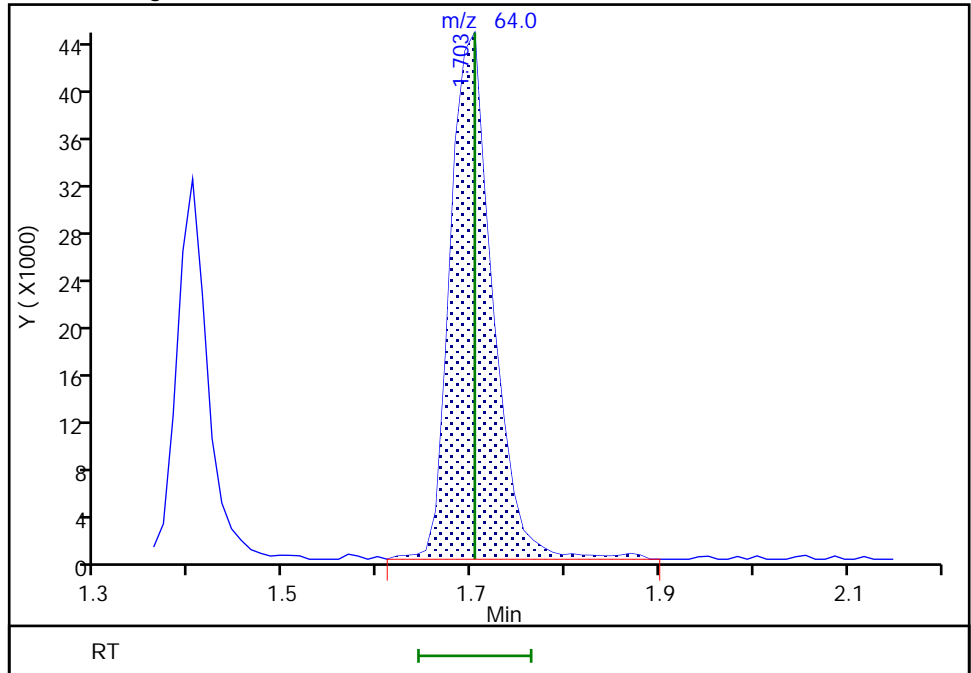
RT: 1.70  
Area: 133049  
Amount: 17.314138  
Amount Units: ug/L

Processing Integration Results



RT: 1.70  
Area: 137373  
Amount: 17.876836  
Amount Units: ug/L

Manual Integration Results



Reviewer: milligana, 17-Jul-2019 20:38:02  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2785.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 08-Jul-2019 13:56:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Sample Info: bfb  
 Misc. Info.: 480-0082467-003  
 Operator ID: KN Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 09-Jul-2019 12:50:49 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0325

First Level Reviewer: nowakk Date: 08-Jul-2019 14:07:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 5 BFB	95	5.303	5.303	0.000	90	181663	NR	NR	
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**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

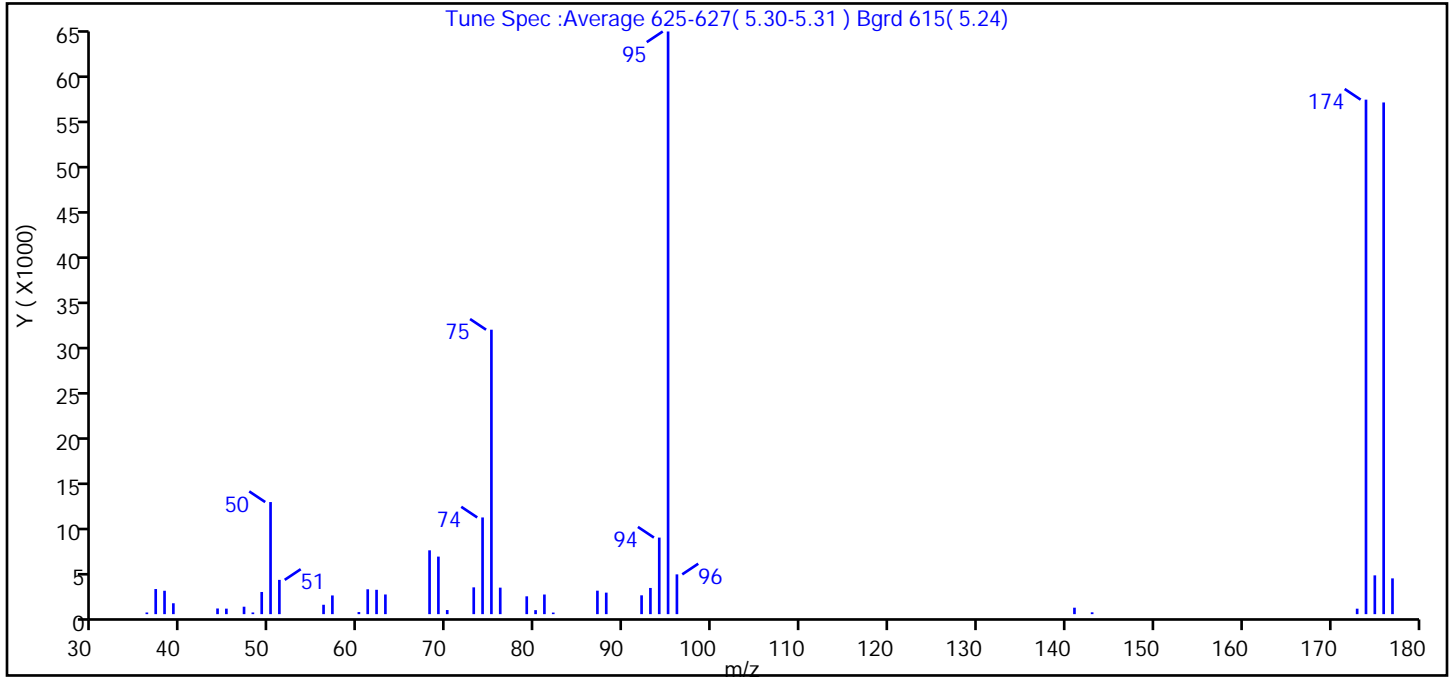
**Reagents:**

MV\_BFB\_STK\_00073 Amount Added: 1.00 Units: uL

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2785.D  
 Injection Date: 08-Jul-2019 13:56:30 Instrument ID: HP5975T  
 Lims ID: BFB  
 Client ID:  
 Operator ID: KN ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.2
75	30 to 60% of m/z 95	48.8
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.9 (1.1)
174	50 to 120% of m/z 95	88.3
175	5 to 9% of m/z 174	6.7 (7.5)
176	Greater than 95% but less than 101% of m/z 174	87.8 (99.5)
177	5 to 9% of m/z 176	6.1 (7.0)



Data File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2785.D\T-8260.rslt\spectra.d  
 Injection Date: 08-Jul-2019 13:56:30  
 Spectrum: Tune Spec :Average 625-627( 5.30-5.31 ) Bgrd 615( 5.24)  
 Base Peak: 95.00  
 Minimum % Base Peak: 0  
 Number of Points: 42

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	184	56.00	1041	75.00	31544	95.00	64616
37.00	2783	57.00	2074	76.00	2939	96.00	4411
38.00	2594	60.00	232	79.00	1977	141.00	715
39.00	1207	61.00	2757	80.00	444	143.00	203
44.00	628	62.00	2700	81.00	2178	173.00	606
45.00	610	63.00	2181	82.00	175	174.00	57056
47.00	825	68.00	7078	87.00	2603	175.00	4301
48.00	186	69.00	6381	88.00	2385	176.00	56744
49.00	2458	70.00	455	92.00	2087	177.00	3967
50.00	12430	73.00	2971	93.00	2905		
51.00	3801	74.00	10723	94.00	8490		

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3124.D  
 Lims ID: BFB  
 Client ID:  
 Sample Type: BFB  
 Inject. Date: 17-Jul-2019 19:36:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Sample Info: BFB  
 Misc. Info.: 480-0082700-002  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 17-Jul-2019 20:05:47 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0326

First Level Reviewer: milligana Date: 17-Jul-2019 20:05:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
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\$ 5 BFB	95	5.291	5.291	0.000	90	189630	NR	NR	
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**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

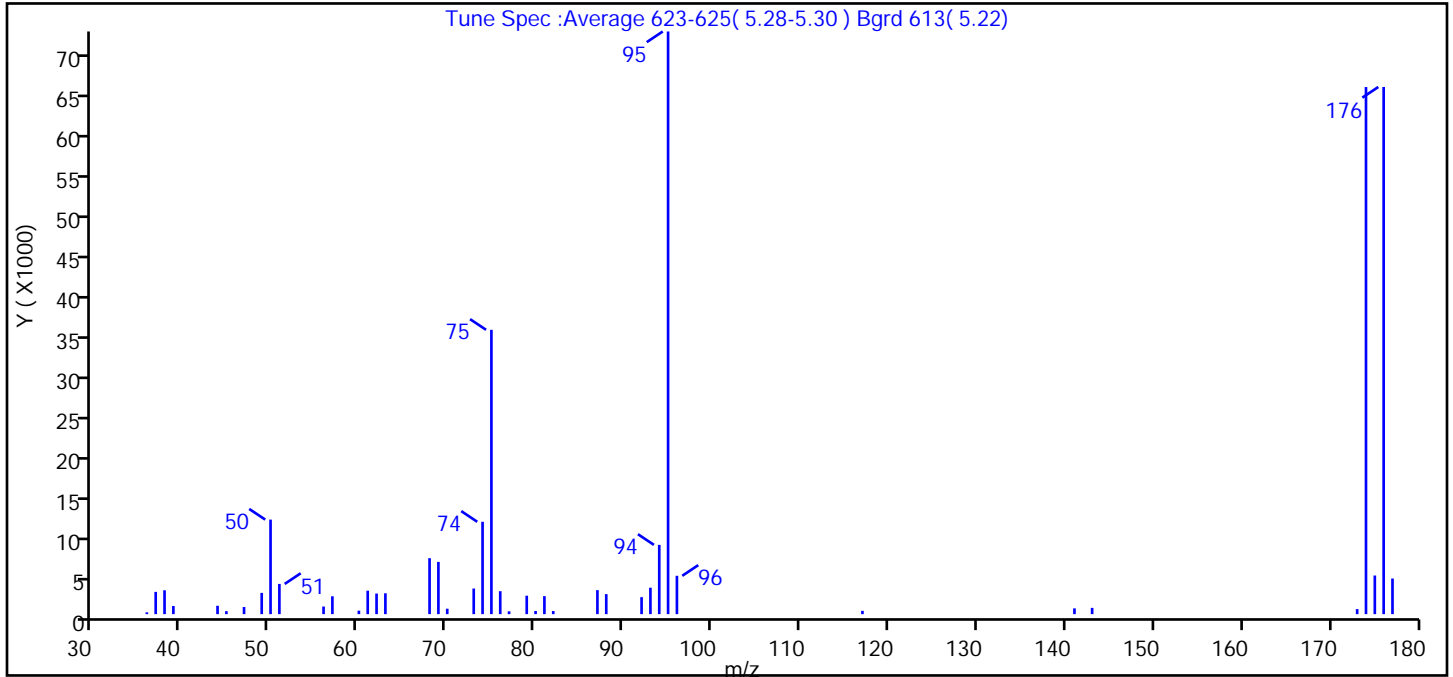
**Reagents:**

BFB\_WRK\_00089 Amount Added: 1.00 Units: uL

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3124.D  
 Injection Date: 17-Jul-2019 19:36:30 Instrument ID: HP5975T  
 Lims ID: BFB  
 Client ID:  
 Operator ID: AEM ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 uL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	48.8
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.9 (1.0)
174	50 to 120% of m/z 95	90.5
175	5 to 9% of m/z 174	6.6 (7.3)
176	Greater than 95% but less than 101% of m/z 174	90.5 (100.0)
177	5 to 9% of m/z 176	6.1 (6.8)

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3124.D\T-8260.rslt\spectra.d  
Injection Date: 17-Jul-2019 19:36:30  
Spectrum: Tune Spec :Average 623-625( 5.28-5.30 ) Bgrd 613( 5.22)  
Base Peak: 95.00  
Minimum % Base Peak: 0  
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	225	57.00	2215	76.00	2846	95.00	72232
37.00	2760	60.00	433	77.00	347	96.00	4754
38.00	2960	61.00	2906	79.00	2286	117.00	411
39.00	1007	62.00	2553	80.00	386	141.00	719
44.00	1039	63.00	2585	81.00	2233	143.00	776
45.00	367	68.00	6938	82.00	381	173.00	628
47.00	883	69.00	6478	87.00	2976	174.00	65344
49.00	2636	70.00	675	88.00	2482	175.00	4790
50.00	11720	73.00	3176	92.00	2105	176.00	65352
51.00	3746	74.00	11450	93.00	3278	177.00	4417
56.00	943	75.00	35248	94.00	8588		

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 480-482537/7  
 Matrix: Water Lab File ID: T3129.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 21:43  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	ND		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
123-91-1	1,4-Dioxane	ND		40	9.3
78-93-3	2-Butanone (MEK)	ND		10	1.3
591-78-6	2-Hexanone	ND		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
74-97-5	Bromochloromethane	ND		1.0	0.87
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 480-482537/7  
 Matrix: Water Lab File ID: T3129.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 21:43  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	105		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123
2037-26-5	Toluene-d8 (Surr)	97		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3129.D  
 Lims ID: MB  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 17-Jul-2019 21:43:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: MB  
 Misc. Info.: 480-0082700-007  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 01:54:32 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0339

First Level Reviewer: milligana Date: 18-Jul-2019 01:54:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	172717	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	753670	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	449206	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.222	0.000	93	244295	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.470	-0.010	0	279534	25.0	25.5	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	900744	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	326529	25.0	26.3	
11 Dichlorodifluoromethane	85		1.164					ND	
12 Chlorodifluoromethane	51		1.175					ND	
13 Chloromethane	50		1.320					ND	
151 Butadiene	54		1.382					ND	
14 Vinyl chloride	62		1.403					ND	
15 Bromomethane	94		1.641					ND	
16 Chloroethane	64		1.703					ND	
18 Dichlorofluoromethane	67		1.911					ND	
17 Trichlorofluoromethane	101		1.921					ND	
19 Ethyl ether	59		2.149					ND	
148 Ethanol	45		2.170					ND	
84 Propene oxide	58		2.221					ND	
21 Acrolein	56		2.325					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.346					ND	
22 1,1-Dichloroethene	96		2.346					ND	
23 Acetone	43		2.460					ND	
24 Iodomethane	142		2.501					ND	
25 Carbon disulfide	76		2.532					ND	
26 Isopropyl alcohol	45		2.636					ND	
27 3-Chloro-1-propene	41		2.677					ND	
28 Methyl acetate	43		2.719					ND	
29 Acetonitrile	40		2.740					ND	
30 Methylene Chloride	84		2.823					ND	U
31 2-Methyl-2-propanol	59		2.988					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Methyl tert-butyl ether	73		3.009					ND	
32 trans-1,2-Dichloroethene	96		3.009					ND	
34 Acrylonitrile	53		3.071					ND	
35 Hexane	57		3.175					ND	
36 1,1-Dichloroethane	63		3.372					ND	
37 Isopropyl ether	45		3.382					ND	
139 Halothane	117		3.413					ND	
38 2-Chloro-1,3-butadiene	53		3.413					ND	
39 Vinyl acetate	43		3.413					ND	
40 1,1-Dimethoxyethane	75		3.444					ND	
41 Tert-butyl ethyl ether	59		3.662					ND	
42 2,2-Dichloropropane	77		3.817					ND	
43 cis-1,2-Dichloroethene	96		3.838					ND	
44 2-Butanone (MEK)	43		3.869					ND	
45 Ethyl acetate	43		3.890					ND	
46 Propionitrile	54		3.952					ND	
49 Methacrylonitrile	41		4.035					ND	
47 Chlorobromomethane	128		4.035					ND	
48 Tetrahydrofuran	42		4.045					ND	
50 Chloroform	83	4.097	4.097	0.000	88	2617		0.1621	
52 Cyclohexane	56		4.190					ND	
51 1,1,1-Trichloroethane	97		4.190					ND	
53 Carbon tetrachloride	117		4.304					ND	
54 1,1-Dichloropropene	75		4.304					ND	
152 Isooctane	57		4.460					ND	
55 Benzene	78		4.470					ND	
56 Isobutyl alcohol	43		4.491					ND	
58 Tert-amyl methyl ether	73		4.532					ND	
57 1,2-Dichloroethane	62		4.532					ND	
147 t-Amyl alcohol	59		4.543					ND	
59 n-Heptane	43		4.605					ND	
1 1,4-Difluorobenzene	114		4.771					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.864					ND	
60 Trichloroethene	95		4.957					ND	
61 n-Butanol	56		4.978					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.050					ND	
142 Ethyl acrylate	55		5.051					ND	
62 Methylcyclohexane	83		5.051					ND	
63 1,2-Dichloropropane	63		5.144					ND	
64 Methyl methacrylate	41		5.216					ND	
65 Dibromomethane	93		5.258					ND	
66 1,4-Dioxane	88		5.258					ND	
67 Dichlorobromomethane	83		5.372					ND	
68 2-Nitropropane	43		5.569					ND	
69 2-Chloroethyl vinyl ether	63		5.579					ND	
70 Epichlorohydrin	57		5.652					ND	
71 cis-1,3-Dichloropropene	75		5.693					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.797					ND	
73 Toluene	92		5.911					ND	
74 2-Methylthiophene	97		6.014					ND	
75 trans-1,3-Dichloropropene	75		6.118					ND	
76 3-Methylthiophene	97		6.139					ND	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
77 Ethyl methacrylate	69		6.149					ND	
78 1,1,2-Trichloroethane	83		6.263					ND	
79 Tetrachloroethene	166		6.305					ND	
80 1,3-Dichloropropane	76		6.387					ND	
81 2-Hexanone	43		6.429					ND	
155 n-Butyl acetate	43		6.512					ND	
82 Chlorodibromomethane	129		6.564					ND	
83 Ethylene Dibromide	107		6.647					ND	
146 1-Chlorohexane	55		6.947					ND	U
85 3-Chlorobenzotrifluoride	180		6.968					ND	
86 Chlorobenzene	112		6.999					ND	
87 4-Chlorobenzotrifluoride	180		7.009					ND	
88 Ethylbenzene	91		7.061					ND	
89 1,1,1,2-Tetrachloroethane	131		7.071					ND	
90 m-Xylene & p-Xylene	106		7.154					ND	
91 o-Xylene	106		7.465					ND	
92 Styrene	104		7.496					ND	
93 Bromoform	173		7.683					ND	
94 2-Chlorobenzotrifluoride	180		7.693					ND	
95 Isopropylbenzene	105		7.755					ND	
96 Cyclohexanone	55		7.890					ND	U
97 Bromobenzene	156		8.025					ND	
98 1,1,2,2-Tetrachloroethane	83		8.066					ND	
99 N-Propylbenzene	91		8.077					ND	
101 trans-1,4-Dichloro-2-buten	53		8.097					ND	
100 1,2,3-Trichloropropane	110		8.097					ND	
105 2-Chlorotoluene	126		8.170					ND	
103 3-Chlorotoluene	126		8.222					ND	
104 1,3,5-Trimethylbenzene	105		8.222					ND	
102 4-Chlorotoluene	91		8.253					ND	
106 tert-Butylbenzene	134		8.481					ND	
107 1,2,4-Trimethylbenzene	105		8.522					ND	
108 Pentachloroethane	167		8.533					ND	
109 sec-Butylbenzene	105		8.657					ND	
111 4-Isopropyltoluene	119		8.771					ND	
110 1,3-Dichlorobenzene	146		8.781					ND	
112 Dicyclopentadiene	66		8.833					ND	
113 1,4-Dichlorobenzene	146		8.854					ND	U
114 1,2,3-Trimethylbenzene	105		8.874					ND	
150 Benzyl chloride	126		8.978					ND	
115 n-Butylbenzene	91		9.113					ND	
116 1,2-Dichlorobenzene	146		9.165					ND	
117 1,2-Dibromo-3-Chloropropan	75		9.838					ND	
118 1,3,5-Trichlorobenzene	180		9.952					ND	
119 1,2,4-Trichlorobenzene	180		10.481					ND	
120 Hexachlorobutadiene	225		10.584					ND	
121 Naphthalene	128		10.688					ND	
122 1,2,3-Trichlorobenzene	180		10.885					ND	
149 2-Methylnaphthalene	142		11.569					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
137 Methyl acrylate	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
135 Hexachloroethane	117		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

T\_8260\_Surr\_00193

Amount Added: 1.00

Units: uL

Run Reagent

T\_8260\_IS\_00223

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3129.D

Injection Date: 17-Jul-2019 21:43:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

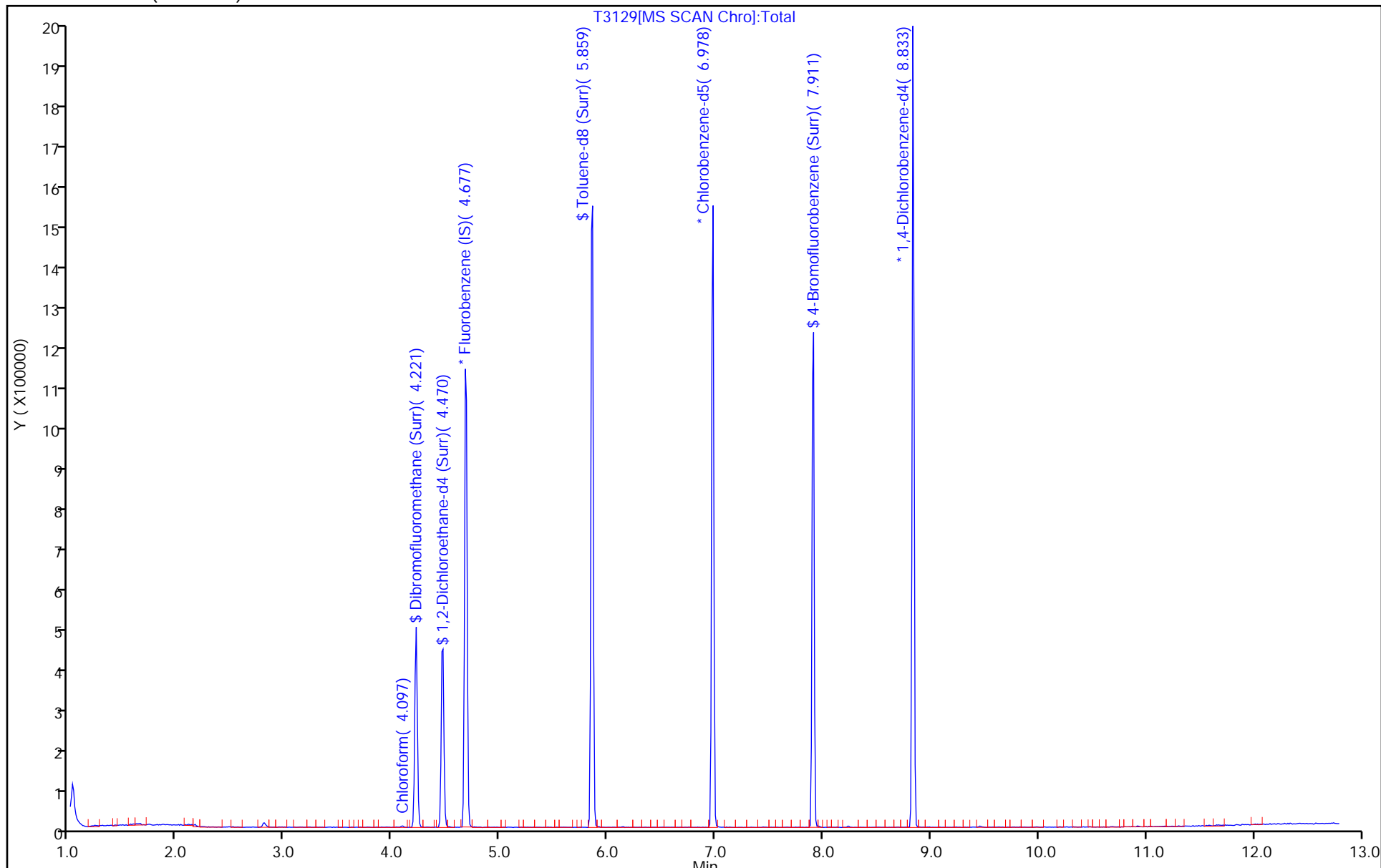
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

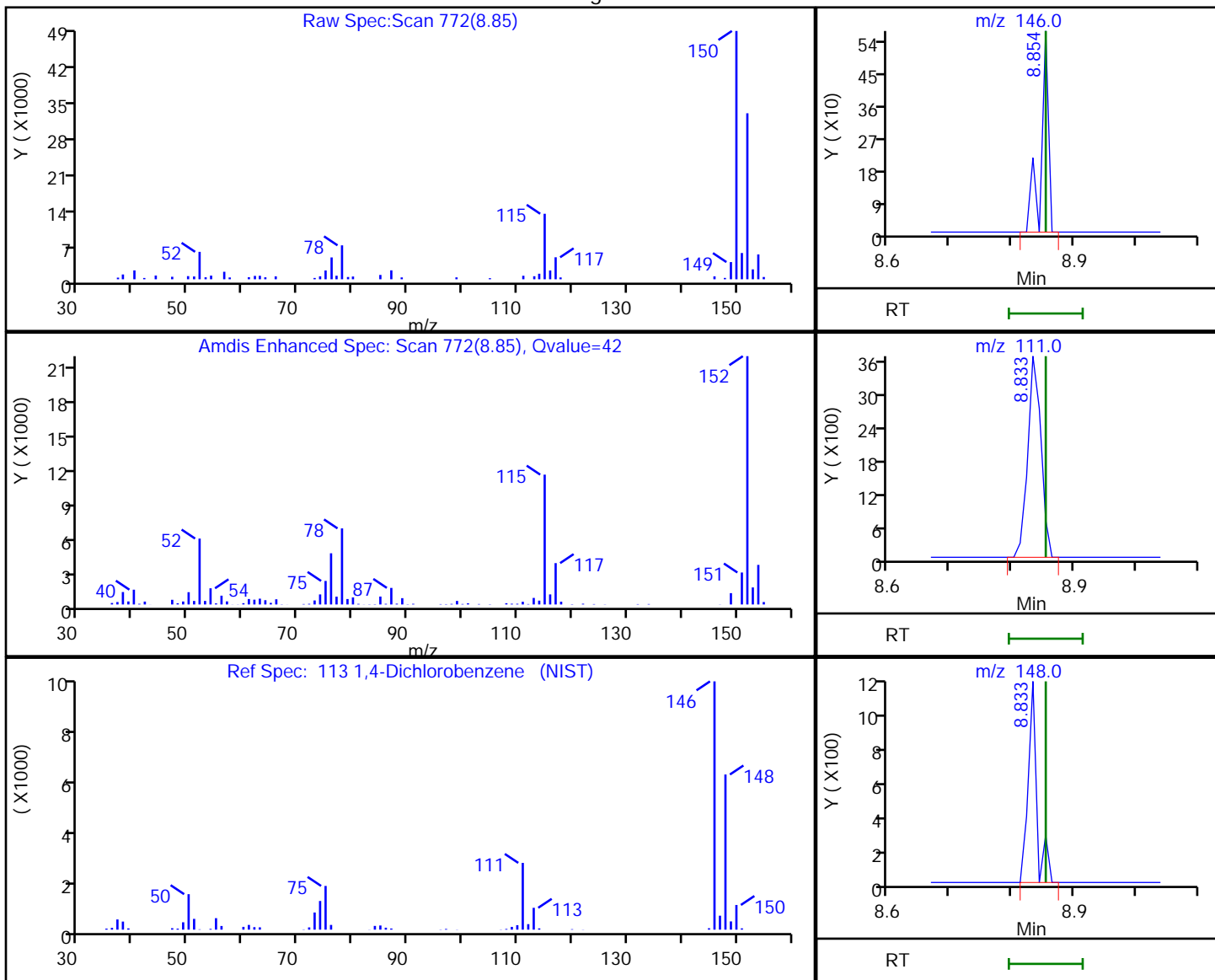


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3129.D  
 Injection Date: 17-Jul-2019 21:43:30 Instrument ID: HP5975T  
 Lims ID: MB  
 Client ID:  
 Operator ID: AEM ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

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

Processing Results



RT	Mass	Response	Amount
8.85	146.00	484	0.018092
8.83	111.00	5489	
8.83	148.00	1096	

Reviewer: milligana, 17-Jul-2019 22:08:05

Audit Action: Marked Compound Undetected

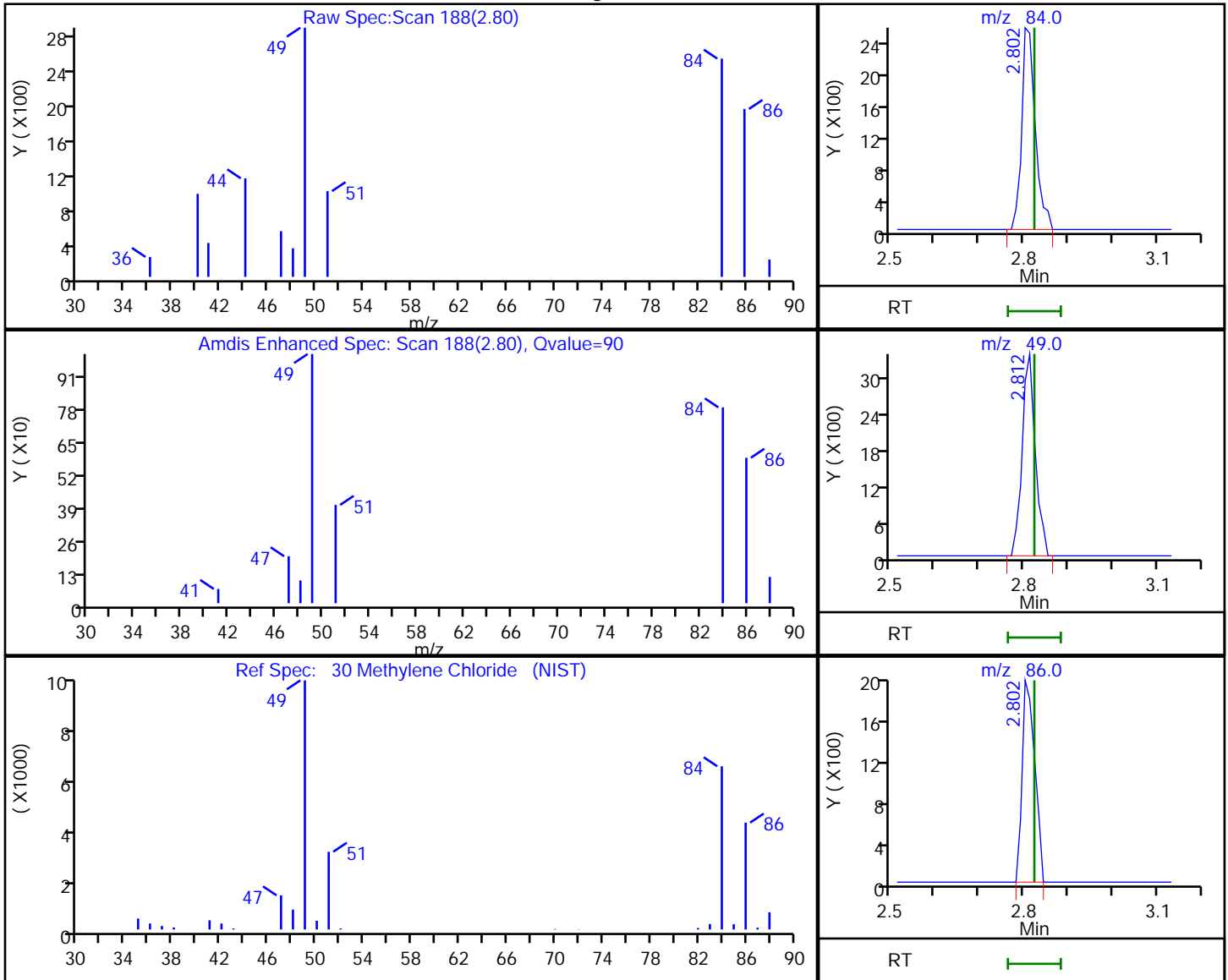
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3129.D  
 Injection Date: 17-Jul-2019 21:43:30 Instrument ID: HP5975T  
 Lims ID: MB  
 Client ID:  
 Operator ID: AEM ALS Bottle#: 7 Worklist Smp#: 7  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Method: T-8260 Limit Group: MV - 8260C ICAL  
 Column: ZB-624 (0.18 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
2.80	84.00	5410	0.045564
2.81	49.00	6925	
2.80	86.00	3854	

Reviewer: milligana, 18-Jul-2019 01:53:58

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 480-482537/5  
 Matrix: Water Lab File ID: T3127.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 20:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.4		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.8		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26.7		1.0	0.31
79-00-5	1,1,2-Trichloroethane	26.0		1.0	0.23
75-34-3	1,1-Dichloroethane	24.9		1.0	0.38
75-35-4	1,1-Dichloroethene	24.7		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	26.7		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	27.8		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	30.7		1.0	0.39
106-93-4	1,2-Dibromoethane	26.8		1.0	0.73
95-50-1	1,2-Dichlorobenzene	25.4		1.0	0.79
107-06-2	1,2-Dichloroethane	25.9		1.0	0.21
78-87-5	1,2-Dichloropropane	24.7		1.0	0.72
541-73-1	1,3-Dichlorobenzene	25.1		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.9		1.0	0.84
123-91-1	1,4-Dioxane	550		40	9.3
78-93-3	2-Butanone (MEK)	145		10	1.3
591-78-6	2-Hexanone	147		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	136		5.0	2.1
67-64-1	Acetone	176		10	3.0
71-43-2	Benzene	23.9		1.0	0.41
74-97-5	Bromochloromethane	25.6		1.0	0.87
75-27-4	Bromodichloromethane	29.0		1.0	0.39
75-25-2	Bromoform	35.8		1.0	0.26
74-83-9	Bromomethane	19.0		1.0	0.69
75-15-0	Carbon disulfide	25.5		1.0	0.19
56-23-5	Carbon tetrachloride	28.8		1.0	0.27
108-90-7	Chlorobenzene	25.0		1.0	0.75
75-00-3	Chloroethane	17.8		1.0	0.32
67-66-3	Chloroform	24.3		1.0	0.34
74-87-3	Chloromethane	20.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	24.6		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.2		1.0	0.36
110-82-7	Cyclohexane	25.7		1.0	0.18
124-48-1	Dibromochloromethane	33.0		1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 480-482537/5  
 Matrix: Water Lab File ID: T3127.D  
 Analysis Method: 8260C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/17/2019 20:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	18.1		1.0	0.68
100-41-4	Ethylbenzene	25.2		1.0	0.74
98-82-8	Isopropylbenzene	24.8		1.0	0.79
79-20-9	Methyl acetate	49.6		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.6		1.0	0.16
108-87-2	Methylcyclohexane	25.5		1.0	0.16
75-09-2	Methylene Chloride	27.2		1.0	0.44
100-42-5	Styrene	24.7		1.0	0.73
127-18-4	Tetrachloroethene	28.2		1.0	0.36
108-88-3	Toluene	24.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.0		1.0	0.37
79-01-6	Trichloroethene	24.3		1.0	0.46
75-69-4	Trichlorofluoromethane	20.2		1.0	0.88
75-01-4	Vinyl chloride	20.2		1.0	0.90
1330-20-7	Xylenes, Total	50.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3127.D  
 Lims ID: LCS  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 17-Jul-2019 20:54:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: LCS  
 Misc. Info.: 480-0082700-005  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 01:58:02 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0339

First Level Reviewer: milligana

Date: 17-Jul-2019 21:26:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.688	4.688	0.000	99	179313	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	83	764667	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	443129	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.222	4.222	0.000	93	248553	25.0	25.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	284285	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	914319	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	336752	25.0	26.8	
11 Dichlorodifluoromethane	85	1.165	1.164	0.001	99	217078	25.0	18.1	
13 Chloromethane	50	1.310	1.320	-0.010	98	226751	25.0	20.5	
151 Butadiene	54	1.372	1.382	-0.010	90	222172	25.0	22.8	
14 Vinyl chloride	62	1.393	1.403	-0.010	98	229492	25.0	20.2	
15 Bromomethane	94	1.631	1.641	-0.010	93	179201	25.0	19.0	
16 Chloroethane	64	1.693	1.693	-0.010	99	135194	25.0	17.8	M
18 Dichlorofluoromethane	67	1.911	1.911	0.000	98	370520	25.0	19.7	
17 Trichlorofluoromethane	101	1.921	1.921	0.000	98	385652	25.0	20.2	
19 Ethyl ether	59	2.139	2.149	-0.010	89	191465	25.0	21.6	
21 Acrolein	56	2.315	2.325	-0.010	100	209231	125.0	132.9	
20 1,1,2-Trichloro-1,2,2-trif	101	2.346	2.346	0.000	91	233199	25.0	26.7	
22 1,1-Dichloroethene	96	2.346	2.346	0.000	98	203279	25.0	24.7	
23 Acetone	43	2.460	2.460	0.000	100	486993	125.0	175.8	
24 Iodomethane	142	2.501	2.501	0.000	100	464819	25.0	25.8	
25 Carbon disulfide	76	2.532	2.532	0.000	100	691424	25.0	25.5	
27 3-Chloro-1-propene	41	2.678	2.677	0.001	86	279508	25.0	24.7	
28 Methyl acetate	43	2.719	2.719	0.000	97	367720	50.0	49.6	
30 Methylene Chloride	84	2.812	2.823	-0.011	91	267449	25.0	27.2	
31 2-Methyl-2-propanol	59	2.978	2.988	-0.010	59	306040	250.0	255.5	
33 Methyl tert-butyl ether	73	2.999	3.009	-0.010	98	683901	25.0	24.6	
32 trans-1,2-Dichloroethene	96	3.009	3.009	0.000	98	241271	25.0	25.0	
34 Acrylonitrile	53	3.061	3.071	-0.010	98	1034437	250.0	256.3	
35 Hexane	57	3.165	3.175	-0.010	91	324264	25.0	24.4	
36 1,1-Dichloroethane	63	3.372	3.372	0.000	96	391129	25.0	24.9	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.413	3.413	0.000	98	611536	50.0	41.0	
42 2,2-Dichloropropane	77	3.807	3.817	-0.010	91	307163	25.0	24.2	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	79	267593	25.0	24.6	
44 2-Butanone (MEK)	43	3.859	3.869	-0.010	99	675241	125.0	145.1	
47 Chlorobromomethane	128	4.035	4.035	0.000	86	153862	25.0	25.6	
48 Tetrahydrofuran	42	4.045	4.045	0.000	85	172062	50.0	49.7	
50 Chloroform	83	4.097	4.097	0.000	93	406605	25.0	24.3	
51 1,1,1-Trichloroethane	97	4.191	4.190	0.001	92	334127	25.0	27.4	
52 Cyclohexane	56	4.191	4.190	0.001	89	378985	25.0	25.7	
53 Carbon tetrachloride	117	4.294	4.304	-0.010	96	267797	25.0	28.8	
54 1,1-Dichloropropene	75	4.305	4.304	0.001	97	318416	25.0	26.2	
55 Benzene	78	4.470	4.470	0.000	96	897369	25.0	23.9	
56 Isobutyl alcohol	43	4.491	4.491	0.000	92	198824	625.0	622.1	
57 1,2-Dichloroethane	62	4.522	4.532	-0.010	97	344112	25.0	25.9	
59 n-Heptane	43	4.605	4.605	0.000	88	330298	25.0	24.8	
60 Trichloroethene	95	4.947	4.957	-0.010	94	244421	25.0	24.3	
62 Methylcyclohexane	83	5.040	5.051	-0.011	89	407430	25.0	25.5	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	93	225128	25.0	24.7	
65 Dibromomethane	93	5.248	5.258	-0.010	91	166637	25.0	26.5	
66 1,4-Dioxane	88	5.258	5.258	0.000	90	89386	500.0	549.6	
67 Dichlorobromomethane	83	5.372	5.372	0.000	98	264939	25.0	29.0	
69 2-Chloroethyl vinyl ether	63	5.579	5.579	0.000	93	181788	25.0	26.6	
71 cis-1,3-Dichloropropene	75	5.683	5.693	-0.010	95	343156	25.0	25.2	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	1369429	125.0	136.2	
73 Toluene	92	5.900	5.911	-0.011	98	602231	25.0	24.3	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	93	320661	25.0	26.0	
77 Ethyl methacrylate	69	6.149	6.149	0.000	88	286425	25.0	25.3	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	91	193207	25.0	26.0	
79 Tetrachloroethene	166	6.305	6.305	0.000	97	304972	25.0	28.2	
80 1,3-Dichloropropane	76	6.388	6.387	0.001	90	384714	25.0	25.0	
81 2-Hexanone	43	6.429	6.429	0.000	94	1019002	125.0	147.3	
82 Chlorodibromomethane	129	6.564	6.564	0.000	89	197069	25.0	33.0	
83 Ethylene Dibromide	107	6.647	6.647	0.000	99	247026	25.0	26.8	
86 Chlorobenzene	112	6.999	6.999	0.000	96	710278	25.0	25.0	
88 Ethylbenzene	91	7.061	7.061	0.000	98	1152163	25.0	25.2	
89 1,1,1,2-Tetrachloroethane	131	7.071	7.071	0.000	91	208154	25.0	29.1	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	465819	25.0	25.3	
91 o-Xylene	106	7.465	7.465	0.000	97	465477	25.0	25.2	
92 Styrene	104	7.486	7.496	-0.010	95	770815	25.0	24.7	
93 Bromoform	173	7.683	7.683	0.000	97	121997	25.0	35.8	
95 Isopropylbenzene	105	7.755	7.755	0.000	95	1185864	25.0	24.8	
97 Bromobenzene	156	8.025	8.025	0.000	89	344059	25.0	25.9	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	94	317844	25.0	25.8	
99 N-Propylbenzene	91	8.077	8.077	0.000	99	1387100	25.0	25.0	
101 trans-1,4-Dichloro-2-buten	53	8.097	8.097	0.000	81	65666	25.0	18.2	
100 1,2,3-Trichloropropane	110	8.097	8.097	0.000	89	112818	25.0	26.3	
105 2-Chlorotoluene	126	8.170	8.170	0.000	98	306497	25.0	25.3	
104 1,3,5-Trimethylbenzene	105	8.222	8.222	0.000	95	1020241	25.0	25.1	
102 4-Chlorotoluene	91	8.253	8.253	0.000	98	955445	25.0	24.7	
106 tert-Butylbenzene	134	8.481	8.481	0.000	91	242709	25.0	25.2	
107 1,2,4-Trimethylbenzene	105	8.522	8.522	0.000	97	1040302	25.0	24.6	
109 sec-Butylbenzene	105	8.657	8.657	0.000	94	1306499	25.0	25.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 4-Isopropyltoluene	119	8.771	8.771	0.000	97	1201864	25.0	26.2	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	98	648159	25.0	25.1	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	96	657241	25.0	24.9	
115 n-Butylbenzene	91	9.113	9.113	0.000	97	1012238	25.0	25.2	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	99	651782	25.0	25.4	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	87	45334	25.0	30.7	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	94	520477	25.0	27.8	
120 Hexachlorobutadiene	225	10.585	10.584	0.001	98	235620	25.0	29.7	
121 Naphthalene	128	10.688	10.688	0.000	97	1377758	25.0	26.0	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	95	501140	25.0	26.7	

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

8260 CORP mix_00160	Amount Added: 12.50	Units: uL	
GAS CORP mix_00350	Amount Added: 12.50	Units: uL	
T_8260_Surr_00193	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00223	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3127.D

Injection Date: 17-Jul-2019 20:54:30

Instrument ID: HP5975T

Operator ID: AEM

Lims ID: LCS

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

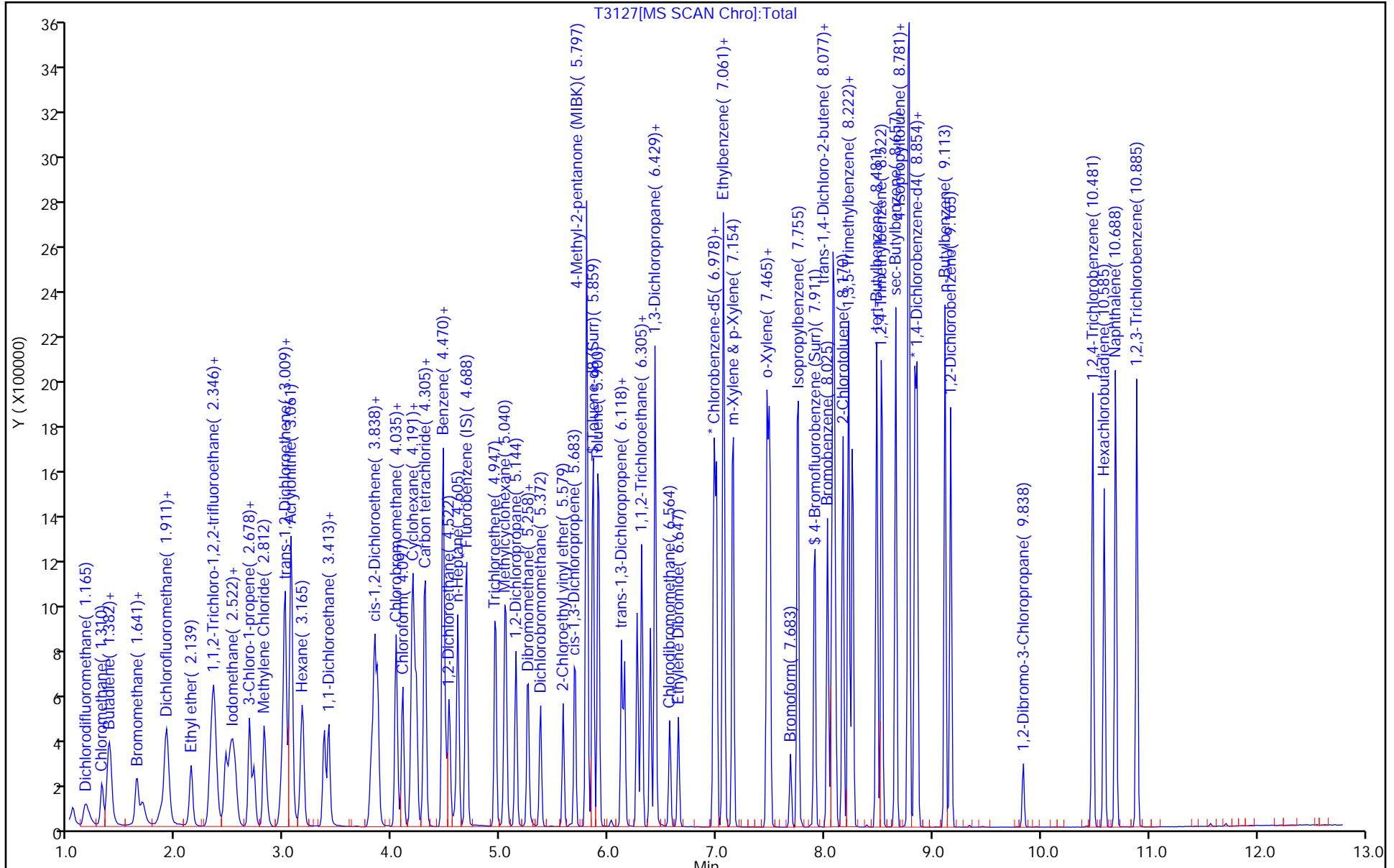
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

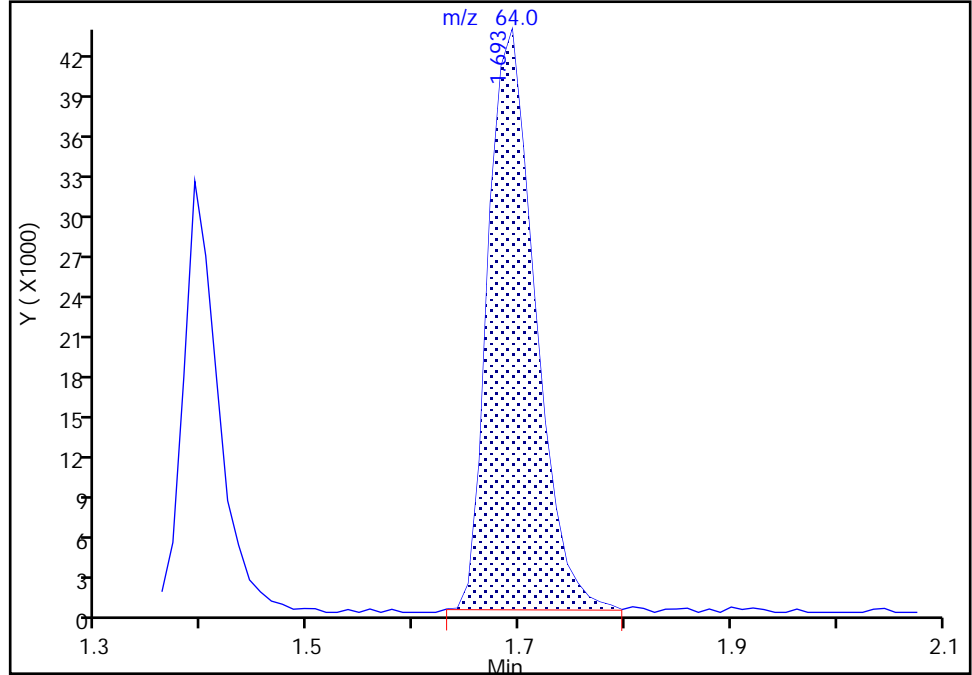
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Injection Date: 17-Jul-2019 20:54:30 Instrument ID: HP5975T  
Lims ID: LCS  
Client ID:  
Operator ID: AEM ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 5.000 mL Dil. Factor: 1.0000  
Method: T-8260 Limit Group: MV - 8260C ICAL  
Column: ZB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

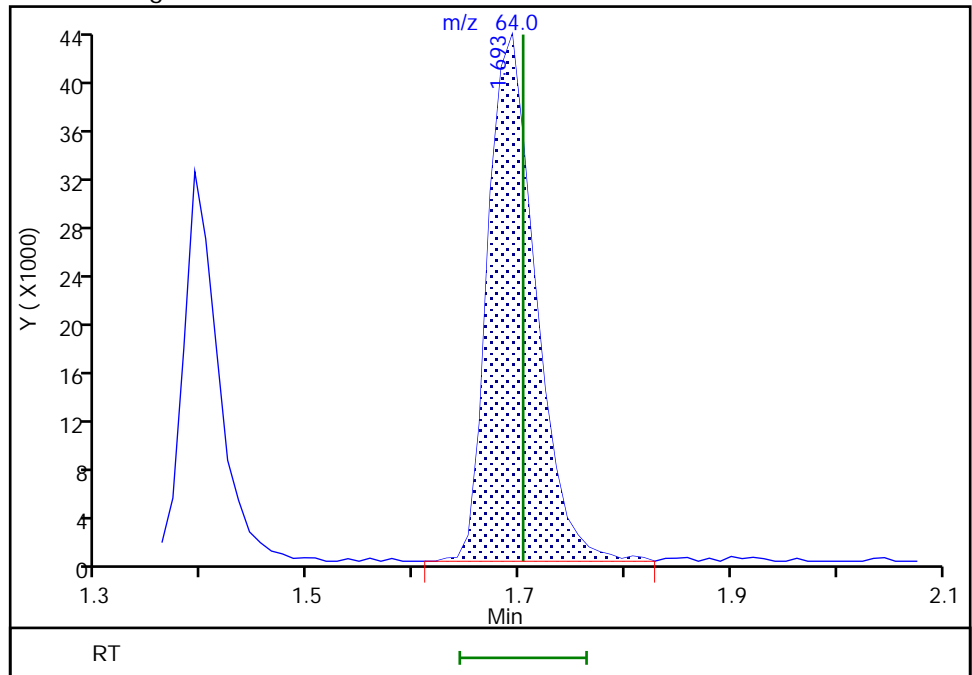
RT: 1.69  
Area: 132810  
Amount: 17.180462  
Amount Units: ug/L

Processing Integration Results



RT: 1.69  
Area: 135194  
Amount: 17.809912  
Amount Units: ug/L

Manual Integration Results



Reviewer: milligana, 18-Jul-2019 01:57:37  
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MS Lab Sample ID: 480-156213-14 MS  
 Matrix: Water Lab File ID: T3150.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 06:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	40.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.3		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	25.7		1.0	0.23
75-34-3	1,1-Dichloroethane	28.0		1.0	0.38
75-35-4	1,1-Dichloroethene	31.3		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	27.7		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	27.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	32.4		1.0	0.39
106-93-4	1,2-Dibromoethane	27.0		1.0	0.73
95-50-1	1,2-Dichlorobenzene	26.4		1.0	0.79
107-06-2	1,2-Dichloroethane	27.8		1.0	0.21
78-87-5	1,2-Dichloropropane	26.9		1.0	0.72
541-73-1	1,3-Dichlorobenzene	26.1		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.0		1.0	0.84
123-91-1	1,4-Dioxane	499		40	9.3
78-93-3	2-Butanone (MEK)	140		10	1.3
591-78-6	2-Hexanone	140		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	133		5.0	2.1
67-64-1	Acetone	158		10	3.0
71-43-2	Benzene	26.1		1.0	0.41
74-97-5	Bromochloromethane	28.2		1.0	0.87
75-27-4	Bromodichloromethane	31.0		1.0	0.39
75-25-2	Bromoform	33.5		1.0	0.26
74-83-9	Bromomethane	22.9		1.0	0.69
75-15-0	Carbon disulfide	27.6		1.0	0.19
56-23-5	Carbon tetrachloride	33.3		1.0	0.27
108-90-7	Chlorobenzene	26.2		1.0	0.75
75-00-3	Chloroethane	22.8		1.0	0.32
67-66-3	Chloroform	27.1		1.0	0.34
74-87-3	Chloromethane	24.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	27.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.9		1.0	0.36
110-82-7	Cyclohexane	28.0		1.0	0.18
124-48-1	Dibromochloromethane	32.8		1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MS Lab Sample ID: 480-156213-14 MS  
 Matrix: Water Lab File ID: T3150.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 06:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	21.1		1.0	0.68
100-41-4	Ethylbenzene	26.6		1.0	0.74
98-82-8	Isopropylbenzene	26.5		1.0	0.79
79-20-9	Methyl acetate	48.9		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.5		1.0	0.16
108-87-2	Methylcyclohexane	27.8		1.0	0.16
75-09-2	Methylene Chloride	28.0		1.0	0.44
100-42-5	Styrene	26.0		1.0	0.73
127-18-4	Tetrachloroethene	30.0		1.0	0.36
108-88-3	Toluene	25.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	28.4		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.3		1.0	0.37
79-01-6	Trichloroethene	28.0		1.0	0.46
75-69-4	Trichlorofluoromethane	25.4		1.0	0.88
75-01-4	Vinyl chloride	25.7		1.0	0.90
1330-20-7	Xylenes, Total	53.2		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	103		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123
2037-26-5	Toluene-d8 (Surr)	96		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3150.D  
 Lims ID: 480-156213-C-14 MS  
 Client ID: 356023-MW6B  
 Sample Type: MS  
 Inject. Date: 18-Jul-2019 06:21:30 ALS Bottle#: 28 Worklist Smp#: 29  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-C-14 MS  
 Misc. Info.: 480-0082700-029  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:44:16 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:46:52

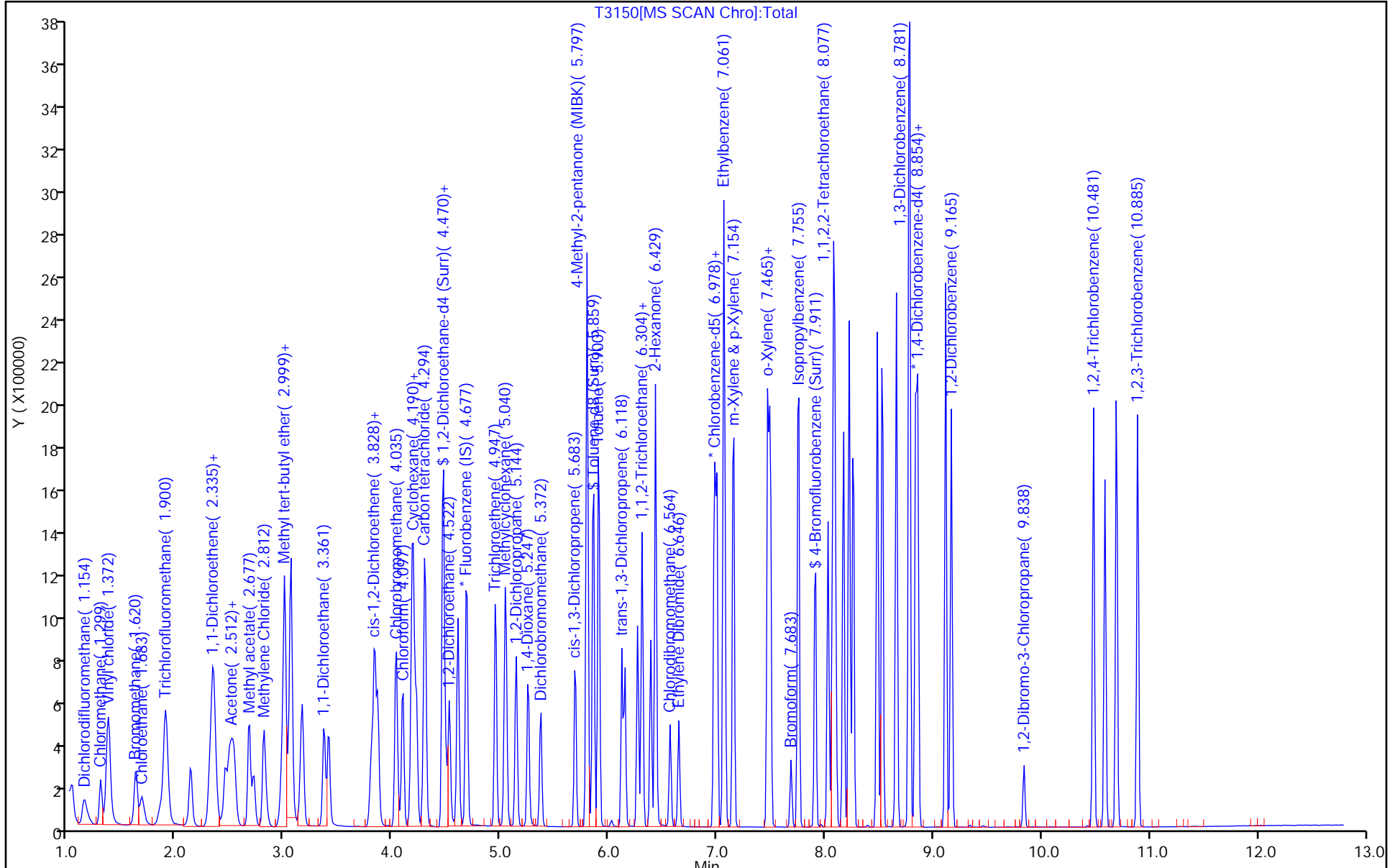
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	168717	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	753814	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	94	436100	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	94	240043	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.470	4.470	0.000	0	281485	25.0	26.3	
\$ 6 Toluene-d8 (Surr)	98	5.859	5.859	0.000	93	886174	25.0	24.0	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	319437	25.0	25.8	
11 Dichlorodifluoromethane	85	1.154	1.164	-0.010	99	238011	25.0	21.1	
13 Chloromethane	50	1.299	1.320	-0.021	99	255108	25.0	24.5	
14 Vinyl chloride	62	1.382	1.403	-0.021	98	274539	25.0	25.7	
15 Bromomethane	94	1.620	1.641	-0.021	92	202983	25.0	22.9	
16 Chloroethane	64	1.683	1.703	-0.020	99	162900	25.0	22.8	
17 Trichlorofluoromethane	101	1.911	1.921	-0.010	98	457482	25.0	25.4	
20 1,1,2-Trichloro-1,2,2-trif	101	2.335	2.346	-0.011	91	237046	25.0	28.8	
22 1,1-Dichloroethene	96	2.346	2.335	0.000	98	242246	25.0	31.3	
23 Acetone	43	2.449	2.460	-0.011	100	411223	125.0	157.7	
25 Carbon disulfide	76	2.532	2.532	0.000	100	704517	25.0	27.6	
28 Methyl acetate	43	2.719	2.719	0.000	97	341293	50.0	48.9	
30 Methylene Chloride	84	2.812	2.823	-0.011	91	258475	25.0	28.0	
33 Methyl tert-butyl ether	73	2.988	3.009	-0.021	98	668835	25.0	25.5	
32 trans-1,2-Dichloroethene	96	2.999	3.009	-0.010	98	258403	25.0	28.4	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	96	413304	25.0	28.0	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	80	278198	25.0	27.2	
44 2-Butanone (MEK)	43	3.859	3.869	-0.010	99	611465	125.0	139.6	
47 Chlorobromomethane	128	4.025	4.035	-0.010	87	159836	25.0	28.2	
50 Chloroform	83	4.097	4.076	0.000	94	426965	25.0	27.1	
52 Cyclohexane	56	4.190	4.190	0.000	86	388632	25.0	28.0	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	98	461932	25.0	40.3	
53 Carbon tetrachloride	117	4.294	4.304	-0.010	98	291153	25.0	33.3	
55 Benzene	78	4.470	4.470	0.000	96	923195	25.0	26.1	
57 1,2-Dichloroethane	62	4.522	4.522	-0.010	98	346606	25.0	27.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	94	264425	25.0	28.0	
62 Methylcyclohexane	83	5.040	5.051	-0.011	89	417533	25.0	27.8	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	93	231394	25.0	26.9	
66 1,4-Dioxane	88	5.258	5.258	0.000	91	80053	500.0	499.3	
67 Dichlorobromomethane	83	5.372	5.372	0.000	98	266492	25.0	31.0	
71 cis-1,3-Dichloropropene	75	5.683	5.693	-0.010	95	331559	25.0	25.9	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	1320760	125.0	133.3	
73 Toluene	92	5.900	5.911	-0.011	98	631600	25.0	25.9	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	93	307870	25.0	25.3	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	92	188316	25.0	25.7	
79 Tetrachloroethene	166	6.304	6.304	-0.001	97	319675	25.0	30.0	
81 2-Hexanone	43	6.429	6.429	0.000	94	956201	125.0	140.2	
82 Chlorodibromomethane	129	6.564	6.564	0.000	89	193222	25.0	32.8	
83 Ethylene Dibromide	107	6.646	6.646	-0.001	99	245338	25.0	27.0	
86 Chlorobenzene	112	6.999	6.999	0.000	97	731067	25.0	26.2	
88 Ethylbenzene	91	7.061	7.061	0.000	98	1201121	25.0	26.6	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	489156		26.9	
91 o-Xylene	106	7.465	7.465	0.000	97	478841		26.3	
92 Styrene	104	7.486	7.496	-0.010	95	798562	25.0	26.0	
93 Bromoform	173	7.683	7.683	0.000	97	112485	25.0	33.5	
95 Isopropylbenzene	105	7.755	7.755	0.000	95	1248207	25.0	26.5	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	97	318706	25.0	26.3	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	98	665122	25.0	26.1	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	97	674034	25.0	26.0	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	99	666253	25.0	26.4	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	88	46982	25.0	32.4	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	94	509661	25.0	27.6	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	96	512371	25.0	27.7	
S 126 Xylenes, Total	1				0			53.2	

**Reagents:**

8260 CORP mix_00160	Amount Added: 12.50	Units: uL	
GAS CORP mix_00350	Amount Added: 12.50	Units: uL	
T_8260_Surr_00193	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00223	Amount Added: 1.00	Units: uL	Run Reagent





FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MSD Lab Sample ID: 480-156213-14 MSD  
 Matrix: Water Lab File ID: T3151.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 06:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	39.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.2		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	26.0		1.0	0.23
75-34-3	1,1-Dichloroethane	27.9		1.0	0.38
75-35-4	1,1-Dichloroethene	30.4		1.0	0.29
87-61-6	1,2,3-Trichlorobenzene	28.0		1.0	0.41
120-82-1	1,2,4-Trichlorobenzene	28.3		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	33.9		1.0	0.39
106-93-4	1,2-Dibromoethane	27.6		1.0	0.73
95-50-1	1,2-Dichlorobenzene	26.6		1.0	0.79
107-06-2	1,2-Dichloroethane	27.3		1.0	0.21
78-87-5	1,2-Dichloropropane	26.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	26.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.0		1.0	0.84
123-91-1	1,4-Dioxane	559		40	9.3
78-93-3	2-Butanone (MEK)	143		10	1.3
591-78-6	2-Hexanone	144		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	137		5.0	2.1
67-64-1	Acetone	155		10	3.0
71-43-2	Benzene	26.1		1.0	0.41
74-97-5	Bromochloromethane	27.5		1.0	0.87
75-27-4	Bromodichloromethane	31.3		1.0	0.39
75-25-2	Bromoform	34.9		1.0	0.26
74-83-9	Bromomethane	22.3		1.0	0.69
75-15-0	Carbon disulfide	27.3		1.0	0.19
56-23-5	Carbon tetrachloride	33.5		1.0	0.27
108-90-7	Chlorobenzene	26.5		1.0	0.75
75-00-3	Chloroethane	23.9		1.0	0.32
67-66-3	Chloroform	26.8		1.0	0.34
74-87-3	Chloromethane	23.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.7		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.0		1.0	0.36
110-82-7	Cyclohexane	27.7		1.0	0.18
124-48-1	Dibromochloromethane	33.7		1.0	0.32

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MSD Lab Sample ID: 480-156213-14 MSD  
 Matrix: Water Lab File ID: T3151.D  
 Analysis Method: 8260C Date Collected: 07/11/2019 13:15  
 Sample wt/vol: 5 (mL) Date Analyzed: 07/18/2019 06:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: ZB-624 (20) ID: 0.18 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 482537 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-71-8	Dichlorodifluoromethane	20.7		1.0	0.68
100-41-4	Ethylbenzene	27.2		1.0	0.74
98-82-8	Isopropylbenzene	26.8		1.0	0.79
79-20-9	Methyl acetate	48.9		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.6		1.0	0.16
108-87-2	Methylcyclohexane	27.4		1.0	0.16
75-09-2	Methylene Chloride	26.9		1.0	0.44
100-42-5	Styrene	26.5		1.0	0.73
127-18-4	Tetrachloroethene	30.7		1.0	0.36
108-88-3	Toluene	26.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	28.7		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	25.8		1.0	0.37
79-01-6	Trichloroethene	27.0		1.0	0.46
75-69-4	Trichlorofluoromethane	25.2		1.0	0.88
75-01-4	Vinyl chloride	25.6		1.0	0.90
1330-20-7	Xylenes, Total	54.3		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123
2037-26-5	Toluene-d8 (Surr)	98		80-120

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3151.D  
 Lims ID: 480-156213-C-14 MSD  
 Client ID: 356023-MW6B  
 Sample Type: MSD  
 Inject. Date: 18-Jul-2019 06:45:30 ALS Bottle#: 29 Worklist Smp#: 30  
 Purge Vol: 5.000 mL Dil. Factor: 1.0000  
 Sample Info: 480-156213-C-14 MSD  
 Misc. Info.: 480-0082700-030  
 Operator ID: AEM Instrument ID: HP5975T  
 Method: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T-8260.m  
 Limit Group: MV - 8260C ICAL  
 Last Update: 18-Jul-2019 13:44:16 Calib Date: 08-Jul-2019 21:58:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5975T\20190708-82467.b\T2805.D  
 Column 1 : ZB-624 ( 0.18 mm) Det: MS SCAN  
 Process Host: CTX0321

First Level Reviewer: farrellr

Date: 18-Jul-2019 13:47:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.677	4.688	-0.011	99	171331	25.0	25.0	
* 2 Chlorobenzene-d5	117	6.978	6.978	0.000	84	749405	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.833	8.833	0.000	93	438666	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr	113	4.221	4.212	-0.001	94	247278	25.0	26.1	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.460	4.470	-0.010	0	282545	25.0	26.0	
\$ 6 Toluene-d8 (Surr)	98	5.848	5.859	-0.011	93	896989	25.0	24.4	
\$ 7 4-Bromofluorobenzene (Surr	174	7.911	7.911	0.000	0	329224	25.0	26.7	
11 Dichlorodifluoromethane	85	1.144	1.164	-0.020	99	236786	25.0	20.7	
13 Chloromethane	50	1.299	1.320	-0.021	98	252918	25.0	23.9	
14 Vinyl chloride	62	1.382	1.403	-0.021	98	277300	25.0	25.6	
15 Bromomethane	94	1.620	1.641	-0.021	93	201025	25.0	22.3	
16 Chloroethane	64	1.683	1.703	-0.021	99	173370	25.0	23.9	
17 Trichlorofluoromethane	101	1.900	1.921	-0.021	99	461349	25.0	25.2	
20 1,1,2-Trichloro-1,2,2-trif	101	2.335	2.346	-0.011	59	234830	25.0	28.1	
22 1,1-Dichloroethene	96	2.335	2.335	-0.011	98	238716	25.0	30.4	
23 Acetone	43	2.449	2.460	-0.011	100	410840	125.0	155.2	
25 Carbon disulfide	76	2.522	2.532	-0.010	100	707521	25.0	27.3	
28 Methyl acetate	43	2.708	2.719	-0.011	97	346133	50.0	48.9	
30 Methylene Chloride	84	2.802	2.823	-0.021	92	252988	25.0	26.9	
33 Methyl tert-butyl ether	73	2.988	3.009	-0.021	100	682037	25.0	25.6	
32 trans-1,2-Dichloroethene	96	2.999	3.009	-0.010	98	264825	25.0	28.7	
36 1,1-Dichloroethane	63	3.361	3.372	-0.011	96	419065	25.0	27.9	
43 cis-1,2-Dichloroethene	96	3.838	3.838	0.000	78	277573	25.0	26.7	
44 2-Butanone (MEK)	43	3.859	3.869	-0.010	99	637081	125.0	143.3	
47 Chlorobromomethane	128	4.025	4.035	-0.010	89	158127	25.0	27.5	
50 Chloroform	83	4.097	4.076	0.000	94	428605	25.0	26.8	
52 Cyclohexane	56	4.180	4.190	-0.010	86	391381	25.0	27.7	
51 1,1,1-Trichloroethane	97	4.180	4.190	-0.010	98	464658	25.0	39.9	
53 Carbon tetrachloride	117	4.294	4.304	-0.010	98	297574	25.0	33.5	
55 Benzene	78	4.470	4.470	0.000	96	937478	25.0	26.1	
57 1,2-Dichloroethane	62	4.522	4.522	-0.010	98	345661	25.0	27.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
60 Trichloroethene	95	4.947	4.957	-0.010	94	259514	25.0	27.0	
62 Methylcyclohexane	83	5.040	5.051	-0.011	89	417670	25.0	27.4	
63 1,2-Dichloropropane	63	5.144	5.144	0.000	93	228832	25.0	26.2	
66 1,4-Dioxane	88	5.258	5.258	0.000	92	89107	500.0	559.0	
67 Dichlorobromomethane	83	5.372	5.372	0.000	98	273535	25.0	31.3	
71 cis-1,3-Dichloropropene	75	5.683	5.693	-0.010	95	337924	25.0	26.0	
72 4-Methyl-2-pentanone (MIBK)	43	5.797	5.797	0.000	95	1345072	125.0	136.6	
73 Toluene	92	5.900	5.911	-0.011	98	636527	25.0	26.2	
75 trans-1,3-Dichloropropene	75	6.118	6.118	0.000	90	311325	25.0	25.8	
78 1,1,2-Trichloroethane	83	6.263	6.263	0.000	92	189358	25.0	26.0	
79 Tetrachloroethene	166	6.304	6.304	-0.001	98	325234	25.0	30.7	
81 2-Hexanone	43	6.429	6.429	0.000	94	975356	125.0	143.9	
82 Chlorodibromomethane	129	6.563	6.564	-0.001	89	197578	25.0	33.7	
83 Ethylene Dibromide	107	6.646	6.646	-0.001	99	248876	25.0	27.6	
86 Chlorobenzene	112	6.999	6.999	0.000	97	735840	25.0	26.5	
88 Ethylbenzene	91	7.061	7.061	0.000	98	1220393	25.0	27.2	
90 m-Xylene & p-Xylene	106	7.154	7.154	0.000	0	501214		27.7	
91 o-Xylene	106	7.465	7.465	0.000	97	481904		26.6	
92 Styrene	104	7.486	7.496	-0.010	96	809824	25.0	26.5	
93 Bromoform	173	7.683	7.683	0.000	97	116636	25.0	34.9	
95 Isopropylbenzene	105	7.755	7.755	0.000	95	1270389	25.0	26.8	
98 1,1,2,2-Tetrachloroethane	83	8.066	8.066	0.000	95	319215	25.0	26.2	
110 1,3-Dichlorobenzene	146	8.781	8.781	0.000	98	674740	25.0	26.4	
113 1,4-Dichlorobenzene	146	8.854	8.854	0.000	96	678158	25.0	26.0	
116 1,2-Dichlorobenzene	146	9.165	9.165	0.000	99	674242	25.0	26.6	
117 1,2-Dibromo-3-Chloropropan	75	9.838	9.838	0.000	86	49545	25.0	33.9	
119 1,2,4-Trichlorobenzene	180	10.481	10.481	0.000	94	523913	25.0	28.3	
122 1,2,3-Trichlorobenzene	180	10.885	10.885	0.000	95	520039	25.0	28.0	
S 126 Xylenes, Total	1				0			54.3	

**Reagents:**

8260 CORP mix_00160	Amount Added: 12.50	Units: uL	
GAS CORP mix_00350	Amount Added: 12.50	Units: uL	
T_8260_Surr_00193	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00223	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5975T\20190717-82700.b\T3151.D

Injection Date: 18-Jul-2019 06:45:30 Instrument ID: HP5975T

Lims ID: 480-156213-C-14 MSD

Client ID: 356023-MW6B

Purge Vol: 5.000 mL

Method: T-8260

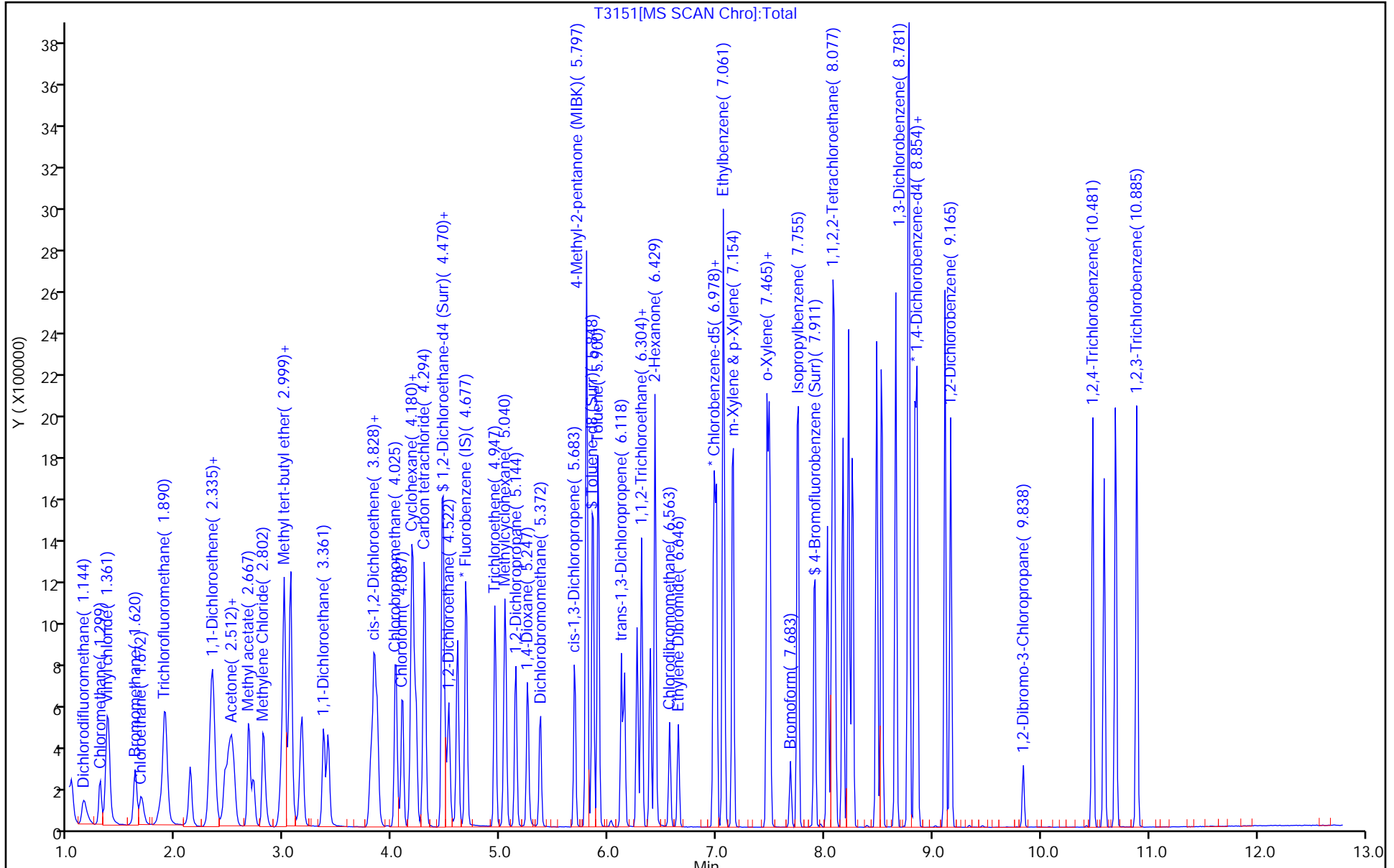
Column: ZB-624 (0.18 mm)

Operator ID: AEM

Worklist Smp#: 30

ALS Bottle#: 29

Dil. Factor: 1.0000  
Limit Group: MV - 8260C ICAL



## GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5975TStart Date: 07/08/2019 13:56Analysis Batch Number: 481153End Date: 07/08/2019 23:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-481153/3		07/08/2019 13:56	1	T2785.D	ZB-624 (20) 0.18 (mm)
IC 480-481153/5		07/08/2019 14:46	1	T2787.D	ZB-624 (20) 0.18 (mm)
IC 480-481153/6		07/08/2019 15:10	1	T2788.D	ZB-624 (20) 0.18 (mm)
IC 480-481153/7		07/08/2019 15:35	1	T2789.D	ZB-624 (20) 0.18 (mm)
IC 480-481153/8		07/08/2019 15:59	1	T2790.D	ZB-624 (20) 0.18 (mm)
IC 480-481153/9		07/08/2019 16:23	1	T2791.D	ZB-624 (20) 0.18 (mm)
ICIS 480-481153/10		07/08/2019 16:47	1	T2792.D	ZB-624 (20) 0.18 (mm)
IC 480-481153/11		07/08/2019 17:11	1	T2793.D	ZB-624 (20) 0.18 (mm)
IC 480-481153/12		07/08/2019 17:35	1	T2794.D	ZB-624 (20) 0.18 (mm)
MDLV 480-481153/14		07/08/2019 18:23	1		ZB-624 (20) 0.18 (mm)
IC 480-481153/17		07/08/2019 19:34	1		ZB-624 (20) 0.18 (mm)
IC 480-481153/18		07/08/2019 19:58	1		ZB-624 (20) 0.18 (mm)
IC 480-481153/19		07/08/2019 20:22	1		ZB-624 (20) 0.18 (mm)
IC 480-481153/20		07/08/2019 20:46	1		ZB-624 (20) 0.18 (mm)
IC 480-481153/21		07/08/2019 21:09	1		ZB-624 (20) 0.18 (mm)
IC 480-481153/22		07/08/2019 21:34	1		ZB-624 (20) 0.18 (mm)
IC 480-481153/23		07/08/2019 21:58	1		ZB-624 (20) 0.18 (mm)
MDLV 480-481153/25		07/08/2019 22:46	1		ZB-624 (20) 0.18 (mm)
ICV 480-481153/26		07/08/2019 23:10	1		ZB-624 (20) 0.18 (mm)
ICV 480-481153/27		07/08/2019 23:34	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5975T Start Date: 07/17/2019 19:36

Analysis Batch Number: 482537 End Date: 07/18/2019 06:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-482537/2		07/17/2019 19:36	1	T3124.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-482537/3		07/17/2019 20:06	1	T3125.D	ZB-624 (20) 0.18 (mm)
CCV 480-482537/4		07/17/2019 20:30	1		ZB-624 (20) 0.18 (mm)
LCS 480-482537/5		07/17/2019 20:54	1	T3127.D	ZB-624 (20) 0.18 (mm)
RL 480-482537/6		07/17/2019 21:18	1		ZB-624 (20) 0.18 (mm)
MB 480-482537/7		07/17/2019 21:43	1	T3129.D	ZB-624 (20) 0.18 (mm)
480-156213-1		07/17/2019 22:23	1	T3130.D	ZB-624 (20) 0.18 (mm)
480-156213-2		07/17/2019 22:47	1	T3131.D	ZB-624 (20) 0.18 (mm)
480-156213-3		07/17/2019 23:11	1	T3132.D	ZB-624 (20) 0.18 (mm)
480-156213-4		07/17/2019 23:35	1	T3133.D	ZB-624 (20) 0.18 (mm)
480-156213-5		07/17/2019 23:59	1	T3134.D	ZB-624 (20) 0.18 (mm)
480-156213-6		07/18/2019 00:23	1	T3135.D	ZB-624 (20) 0.18 (mm)
480-156213-7		07/18/2019 00:47	1	T3136.D	ZB-624 (20) 0.18 (mm)
480-156213-8		07/18/2019 01:11	1	T3137.D	ZB-624 (20) 0.18 (mm)
480-156213-9		07/18/2019 01:35	1	T3138.D	ZB-624 (20) 0.18 (mm)
480-156213-10		07/18/2019 01:59	1	T3139.D	ZB-624 (20) 0.18 (mm)
480-156213-11		07/18/2019 02:23	40	T3140.D	ZB-624 (20) 0.18 (mm)
480-156213-12		07/18/2019 02:47	50	T3141.D	ZB-624 (20) 0.18 (mm)
480-156213-13		07/18/2019 03:11	20	T3142.D	ZB-624 (20) 0.18 (mm)
480-156213-14		07/18/2019 03:34	1	T3143.D	ZB-624 (20) 0.18 (mm)
480-156213-15		07/18/2019 03:58	1	T3144.D	ZB-624 (20) 0.18 (mm)
480-156213-16		07/18/2019 04:22	1	T3145.D	ZB-624 (20) 0.18 (mm)
480-156213-17		07/18/2019 04:46	1	T3146.D	ZB-624 (20) 0.18 (mm)
480-156213-18		07/18/2019 05:09	2	T3147.D	ZB-624 (20) 0.18 (mm)
480-156213-19		07/18/2019 05:34	1	T3148.D	ZB-624 (20) 0.18 (mm)
480-156213-20		07/18/2019 05:57	1	T3149.D	ZB-624 (20) 0.18 (mm)
480-156213-14 MS		07/18/2019 06:21	1	T3150.D	ZB-624 (20) 0.18 (mm)
480-156213-14 MSD		07/18/2019 06:45	1	T3151.D	ZB-624 (20) 0.18 (mm)



GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Batch Number: 482537 Batch Start Date: 07/17/19 19:36 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00160	BFB_WRK 00089	GAS CORP mix 00350
BFB 480-482537/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-482537/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-482537/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-482537/7		8260C		5 mL	5 mL				
480-156213-D-1	356023-MW8B	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-2	356023-MW8BD	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-3	356023-MW16	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-4	356023-MW14B 150	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-5	356023-MW12B 190	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-6	356023-MW11B	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-7	356023-MW11C	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-8	356023-MW1801	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-9	356023-MW1802	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-10	356023-MW1803	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-11	356023-MW5B	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-12	356023-ERT4	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-13	356023-MW4	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-14	356023-MW6B	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-15	356023-MW15B	8260C	T	5 mL	5 mL	<2 SU			
480-156213-C-16	356023-EB1	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-17	356023-MW1B	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-18	356023-MW5R	8260C	T	5 mL	5 mL	<2 SU			
480-156213-D-19	356023-MW7R	8260C	T	5 mL	5 mL	<2 SU			
480-156213-A-20	356023-TB1	8260C	T	5 mL	5 mL	<2 SU			
480-156213-C-14 MS	356023-MW6B	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-156213-C-14 MSD	356023-MW6B	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Batch Number: 482537 Batch Start Date: 07/17/19 19:36 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	T_8260_IS 00223	T_8260_Surr 00193				
BFB 480-482537/2		8260C							
CCVIS 480-482537/3		8260C		1 uL	1 uL				
LCS 480-482537/5		8260C		1 uL	1 uL				
MB 480-482537/7		8260C		1 uL	1 uL				
480-156213-D-1	356023-MW8B	8260C	T	1 uL	1 uL				
480-156213-D-2	356023-MW8BD	8260C	T	1 uL	1 uL				
480-156213-D-3	356023-MW16	8260C	T	1 uL	1 uL				
480-156213-D-4	356023-MW14B 150	8260C	T	1 uL	1 uL				
480-156213-D-5	356023-MW12B 190	8260C	T	1 uL	1 uL				
480-156213-D-6	356023-MW11B	8260C	T	1 uL	1 uL				
480-156213-D-7	356023-MW11C	8260C	T	1 uL	1 uL				
480-156213-D-8	356023-MW1801	8260C	T	1 uL	1 uL				
480-156213-D-9	356023-MW1802	8260C	T	1 uL	1 uL				
480-156213-D-10	356023-MW1803	8260C	T	1 uL	1 uL				
480-156213-D-11	356023-MW5B	8260C	T	1 uL	1 uL				
480-156213-D-12	356023-ERT4	8260C	T	1 uL	1 uL				
480-156213-D-13	356023-MW4	8260C	T	1 uL	1 uL				
480-156213-D-14	356023-MW6B	8260C	T	1 uL	1 uL				
480-156213-D-15	356023-MW15B	8260C	T	1 uL	1 uL				
480-156213-C-16	356023-EB1	8260C	T	1 uL	1 uL				
480-156213-D-17	356023-MW1B	8260C	T	1 uL	1 uL				
480-156213-D-18	356023-MW5R	8260C	T	1 uL	1 uL				
480-156213-D-19	356023-MW7R	8260C	T	1 uL	1 uL				
480-156213-A-20	356023-TB1	8260C	T	1 uL	1 uL				
480-156213-C-14 MS	356023-MW6B	8260C	T	1 uL	1 uL				
480-156213-C-14 MSD	356023-MW6B	8260C	T	1 uL	1 uL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Batch Number: 482537 Batch Start Date: 07/17/19 19:36 Batch Analyst: Farrell, Ryan J

Batch Method: 8260C Batch End Date: \_\_\_\_\_

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Method 8270D

## SIM-ID

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Semivolatile Organic Compounds  
(GC/MS SIM / Isotope Dilution) by  
Method 8270D

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DXE #
356023-MW8B	480-156213-1	31
356023-MW8BD	480-156213-2	39
356023-MW16	480-156213-3	39
356023-MW14B 150	480-156213-4	36
356023-MW12B 190	480-156213-5	35
356023-MW11B	480-156213-6	35
356023-MW11C	480-156213-7	39
356023-MW1801	480-156213-8	45
356023-MW1802	480-156213-9	37
356023-MW1803	480-156213-10	39
356023-MW5B	480-156213-11	34
356023-ERT4	480-156213-12	28
356023-MW4	480-156213-13	37
356023-MW6B	480-156213-14	43
356023-MW15B	480-156213-15	32
356023-EB1	480-156213-16	33
356023-MW1B	480-156213-17	43
356023-MW5R	480-156213-18	37
356023-MW7R	480-156213-19	41
	MB 480-482507/1-A	38
	LCS 480-482507/2-A	34
356023-MW6B MS	480-156213-14 MS	34
356023-MW6B MSD	480-156213-14 MSD	38

DXE = 1,4-Dioxane-d8

QC LIMITS  
15-110

# Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: U33151385.D

Lab ID: LCS 480-482507/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	1.15	115	40-140	
1,4-Dioxane-d8	10.0	3.36	34	15-110	

# Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III  
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: U33151386.D

Lab ID: 480-156213-14 MS Client ID: 356023-MW6B MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	0.76	1.93	117	40-140	E
1,4-Dioxane-d8	10.0	4.3	3.39	34	15-110	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: U33151387.D

Lab ID: 480-156213-14 MSD Client ID: 356023-MW6B MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	1.00	1.90	114	2	20	40-140	E
1,4-Dioxane-d8	10.0	3.76	38			15-110	

# Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID



FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: U33151384.D Lab Sample ID: MB 480-482507/1-A  
 Matrix: Water Date Extracted: 07/17/2019 15:17  
 Instrument ID: HP5973U Date Analyzed: 07/18/2019 19:44  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-482507/2-A	U33151385.D	07/18/2019 20:08
356023-MW6B MS	480-156213-14 MS	U33151386.D	07/18/2019 20:32
356023-MW6B MSD	480-156213-14 MSD	U33151387.D	07/18/2019 20:55
356023-MW6B	480-156213-14	U33151388.D	07/18/2019 21:19
356023-MW8B	480-156213-1	U33151389.D	07/18/2019 21:43
356023-MW8BD	480-156213-2	U33151390.D	07/18/2019 22:07
356023-MW11C	480-156213-7	U33151398.D	07/19/2019 01:24
356023-MW1801	480-156213-8	U33151399.D	07/19/2019 01:48
356023-MW1802	480-156213-9	U33151400.D	07/19/2019 02:11
356023-MW1803	480-156213-10	U33151401.D	07/19/2019 02:35
356023-EB1	480-156213-16	U33151406.D	07/19/2019 04:32
356023-MW1B	480-156213-17	U33151407.D	07/19/2019 04:56
356023-MW7R	480-156213-19	U33151409.D	07/19/2019 05:43
356023-MW16	480-156213-3	U33151427.D	07/21/2019 17:29
356023-MW14B 150	480-156213-4	U33151428.D	07/21/2019 17:53
356023-MW12B 190	480-156213-5	U33151429.D	07/21/2019 18:17
356023-MW11B	480-156213-6	U33151430.D	07/21/2019 18:40
356023-MW5B	480-156213-11	U33151431.D	07/21/2019 19:04
356023-ERT4	480-156213-12	U33151432.D	07/21/2019 19:28
356023-MW4	480-156213-13	U33151433.D	07/21/2019 19:51
356023-MW15B	480-156213-15	U33151434.D	07/21/2019 20:15
356023-MW5R	480-156213-18	U33151435.D	07/21/2019 20:38

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: U33151151.D DFTPP Injection Date: 07/03/2019  
 Instrument ID: HP5973U DFTPP Injection Time: 14:17  
 Analysis Batch No.: 480789

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	35.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	37.1
70	Less than 2% of mass 69	0.0 (0.0) 1
127	10-80% of Base Peak	44.1
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.9
275	10-60% of Base Peak	29.6
365	Greater than 1% of mass 198	3.1
441	present but less than 24% of mass 442	11.5 (14.1) 2
442	Greater than 50% of mass 198	81.3
443	15-24% of mass 442	15.5 (19.0) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-480789/3	U33151152.D	07/03/2019	14:45
	IC 480-480789/4	U33151153.D	07/03/2019	15:09
	ICIS 480-480789/5	U33151154.D	07/03/2019	15:34
	IC 480-480789/6	U33151155.D	07/03/2019	15:58
	IC 480-480789/7	U33151156.D	07/03/2019	16:23
	IC 480-480789/8	U33151157.D	07/03/2019	16:46

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: U33151365.D DFTPP Injection Date: 07/18/2019  
 Instrument ID: HP5973U DFTPP Injection Time: 12:13  
 Analysis Batch No.: 482664

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	36.1
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	37.1
70	Less than 2% of mass 69	0.2 (0.5) 1
127	10-80% of Base Peak	45.1
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.6
275	10-60% of Base Peak	27.8
365	Greater than 1% of mass 198	3.1
441	present but less than 24% of mass 442	10.5 (13.7) 2
442	Greater than 50% of mass 198	76.6
443	15-24% of mass 442	14.8 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-482664/3	U33151366.D	07/18/2019	12:41
	MB 480-482507/1-A	U33151384.D	07/18/2019	19:44
	LCS 480-482507/2-A	U33151385.D	07/18/2019	20:08
356023-MW6B MS	480-156213-14 MS	U33151386.D	07/18/2019	20:32
356023-MW6B MSD	480-156213-14 MSD	U33151387.D	07/18/2019	20:55
356023-MW6B	480-156213-14	U33151388.D	07/18/2019	21:19
356023-MW8B	480-156213-1	U33151389.D	07/18/2019	21:43
356023-MW8BD	480-156213-2	U33151390.D	07/18/2019	22:07

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: U33151395.D DFTPP Injection Date: 07/19/2019  
 Instrument ID: HP5973U DFTPP Injection Time: 00:08  
 Analysis Batch No.: 482665

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	36.1
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	37.0
70	Less than 2% of mass 69	0.1 (0.2) 1
127	10-80% of Base Peak	43.8
197	Less than 2% of mass 198	0.7
198	Base peak	100.0
199	5-9% of mass 198	6.6
275	10-60% of Base Peak	27.9
365	Greater than 1% of mass 198	3.1
441	present but less than 24% of mass 442	11.0 (14.7) 2
442	Greater than 50% of mass 198	74.6
443	15-24% of mass 442	14.5 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-482665/3	U33151396.D	07/19/2019	00:36
356023-MW11C	480-156213-7	U33151398.D	07/19/2019	01:24
356023-MW1801	480-156213-8	U33151399.D	07/19/2019	01:48
356023-MW1802	480-156213-9	U33151400.D	07/19/2019	02:11
356023-MW1803	480-156213-10	U33151401.D	07/19/2019	02:35
356023-EB1	480-156213-16	U33151406.D	07/19/2019	04:32
356023-MW1B	480-156213-17	U33151407.D	07/19/2019	04:56
356023-MW7R	480-156213-19	U33151409.D	07/19/2019	05:43

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Lab File ID: U33151419.D DFTPP Injection Date: 07/21/2019

Instrument ID: HP5973U DFTPP Injection Time: 14:10

Analysis Batch No.: 482965

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	36.1
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	37.3
70	Less than 2% of mass 69	0.1 (0.3) 1
127	10-80% of Base Peak	42.7
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.7
275	10-60% of Base Peak	28.4
365	Greater than 1% of mass 198	2.8
441	present but less than 24% of mass 442	12.0 (16.4) 2
442	Greater than 50% of mass 198	73.3
443	15-24% of mass 442	15.1 (20.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-482965/3	U33151420.D	07/21/2019	14:38
356023-MW16	480-156213-3	U33151427.D	07/21/2019	17:29
356023-MW14B 150	480-156213-4	U33151428.D	07/21/2019	17:53
356023-MW12B 190	480-156213-5	U33151429.D	07/21/2019	18:17
356023-MW11B	480-156213-6	U33151430.D	07/21/2019	18:40
356023-MW5B	480-156213-11	U33151431.D	07/21/2019	19:04
356023-ERT4	480-156213-12	U33151432.D	07/21/2019	19:28
356023-MW4	480-156213-13	U33151433.D	07/21/2019	19:51
356023-MW15B	480-156213-15	U33151434.D	07/21/2019	20:15
356023-MW5R	480-156213-18	U33151435.D	07/21/2019	20:38

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 480-480789/5 Date Analyzed: 07/03/2019 15:34  
 Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)  
 Lab File ID (Standard): U33151154.D Heated Purge: (Y/N) N  
 Calibration ID: 37196

	DCBd4					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	332481	5.83				
UPPER LIMIT	664962	6.33				
LOWER LIMIT	166241	5.33				
LAB SAMPLE ID	CLIENT SAMPLE ID					
CCVIS 480-482664/3		553552	5.83			
CCVIS 480-482665/3		534890	5.83			
CCVIS 480-482965/3		490415	5.83			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-482664/3 Date Analyzed: 07/18/2019 12:41  
 Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
 Lab File ID (Standard): U33151366.D Heated Purge: (Y/N) N  
 Calibration ID: 37196

		DCBd4					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		553552	5.83				
UPPER LIMIT		1107104	6.33				
LOWER LIMIT		276776	5.33				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-482507/1-A		469713	5.83				
LCS 480-482507/2-A		484580	5.84				
480-156213-14 MS	356023-MW6B MS	449185	5.84				
480-156213-14 MSD	356023-MW6B MSD	437747	5.84				
480-156213-14	356023-MW6B	430382	5.83				
480-156213-1	356023-MW8B	446089	5.83				
480-156213-2	356023-MW8BD	434031	5.83				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-482665/3 Date Analyzed: 07/19/2019 00:36  
 Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)  
 Lab File ID (Standard): U33151396.D Heated Purge: (Y/N) N  
 Calibration ID: 37196

	DCBd4					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	534890	5.83				
UPPER LIMIT	1069780	6.33				
LOWER LIMIT	267445	5.33				
LAB SAMPLE ID	CLIENT SAMPLE ID					
480-156213-7	356023-MW11C	416462	5.83			
480-156213-8	356023-MW1801	434399	5.83			
480-156213-9	356023-MW1802	433993	5.83			
480-156213-10	356023-MW1803	415368	5.83			
480-156213-16	356023-EB1	401096	5.83			
480-156213-17	356023-MW1B	406825	5.83			
480-156213-19	356023-MW7R	424529	5.83			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits



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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-482965/3 Date Analyzed: 07/21/2019 14:38  
 Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)  
 Lab File ID (Standard): U33151420.D Heated Purge: (Y/N) N  
 Calibration ID: 37196

	DCBd4					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	490415	5.83				
UPPER LIMIT	980830	6.33				
LOWER LIMIT	245208	5.33				
LAB SAMPLE ID	CLIENT SAMPLE ID					
480-156213-3	356023-MW16	409425	5.83			
480-156213-4	356023-MW14B 150	425977	5.83			
480-156213-5	356023-MW12B 190	428530	5.83			
480-156213-6	356023-MW11B	423029	5.83			
480-156213-11	356023-MW5B	419248	5.83			
480-156213-12	356023-ERT4	417438	5.83			
480-156213-13	356023-MW4	409746	5.83			
480-156213-15	356023-MW15B	411083	5.83			
480-156213-18	356023-MW5R	404454	5.83			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8B Lab Sample ID: 480-156213-1  
 Matrix: Water Lab File ID: U33151389.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/09/2019 13:20  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/18/2019 21:43  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.4	H E	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	31		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151389.D  
 Lims ID: 480-156213-B-1-A  
 Client ID: 356023-MW8B  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 21:43:30 ALS Bottle#: 26 Worklist Smp#: 26  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 26  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:58 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 19-Jul-2019 16:36:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.640	2.558	0.082	89	159965	3.11	31.1	
3 1,4-Dioxane	88	2.676	2.615	0.061	86	38356	2.44		E
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	96	446089	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151389.D

Injection Date: 18-Jul-2019 21:43:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-1-A

Lab Sample ID: 480-156213-1

Worklist Smp#: 26

Client ID: 356023-MW8B

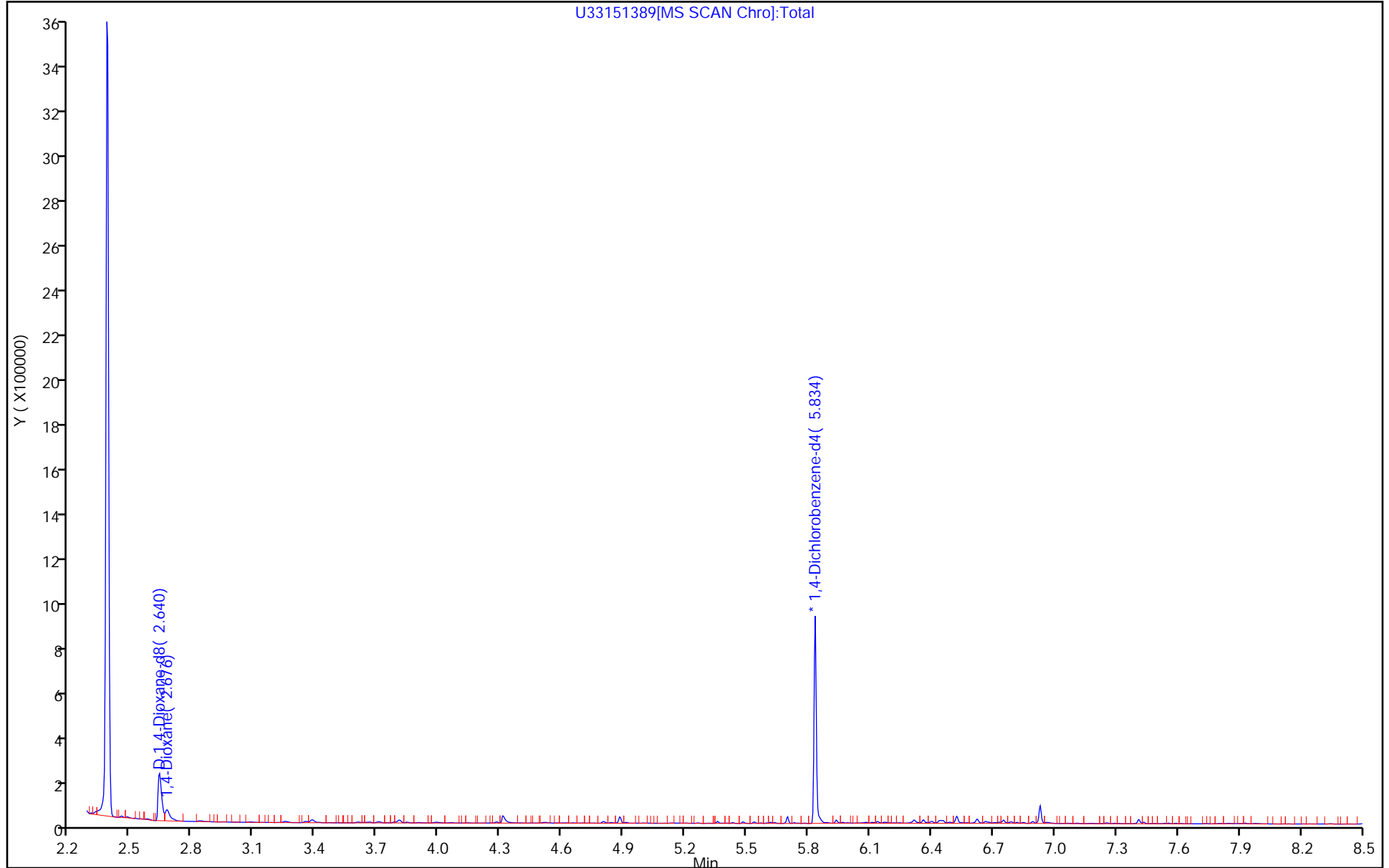
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 26

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151389.D

Injection Date: 18-Jul-2019 21:43:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-1-A

Lab Sample ID: 480-156213-1

Client ID: 356023-MW8B

Operator ID: bs

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

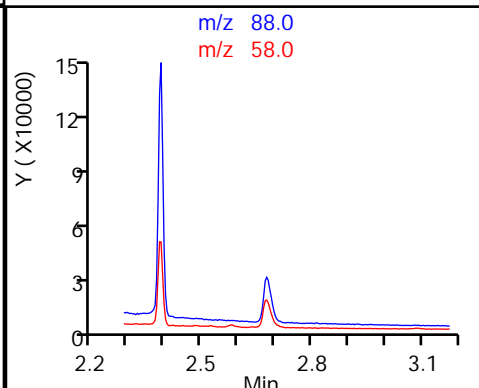
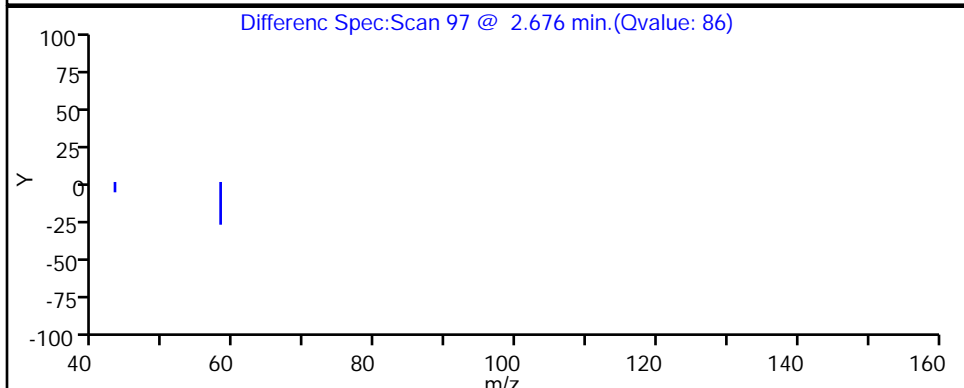
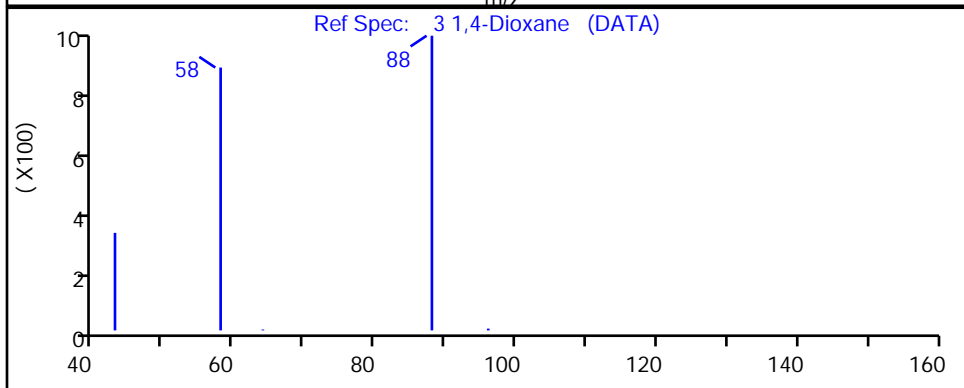
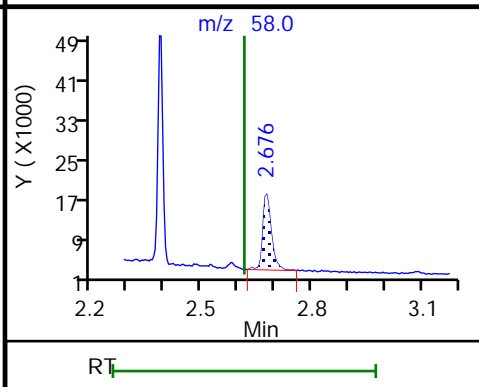
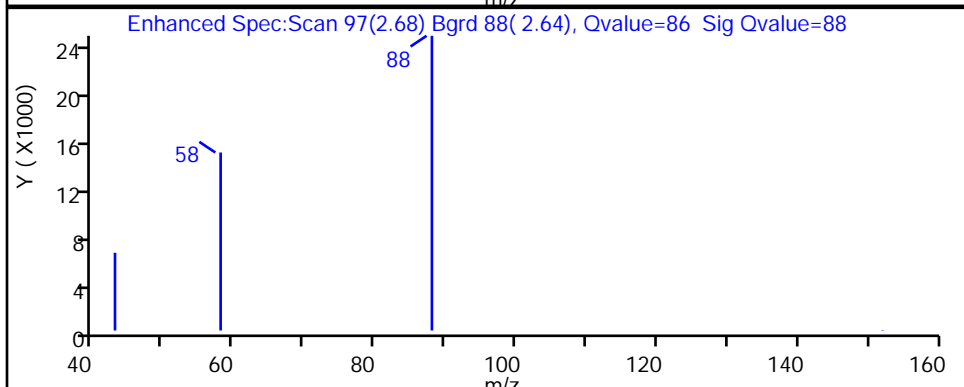
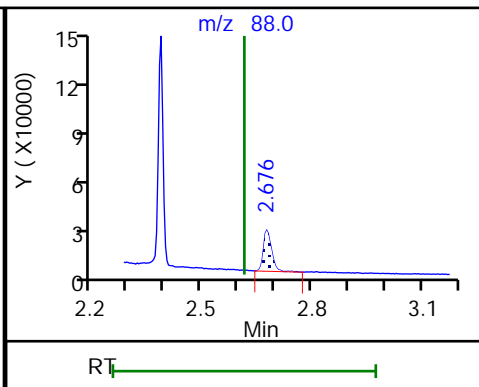
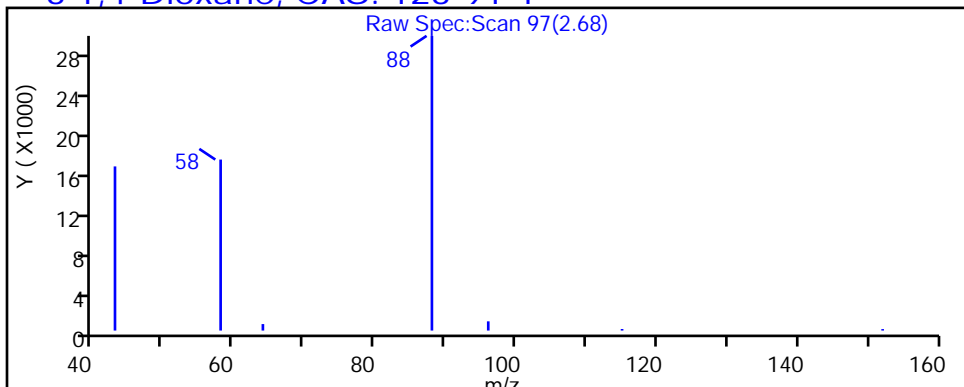
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151389.D

Injection Date: 18-Jul-2019 21:43:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-1-A

Lab Sample ID: 480-156213-1

Client ID: 356023-MW8B

Operator ID: bs

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

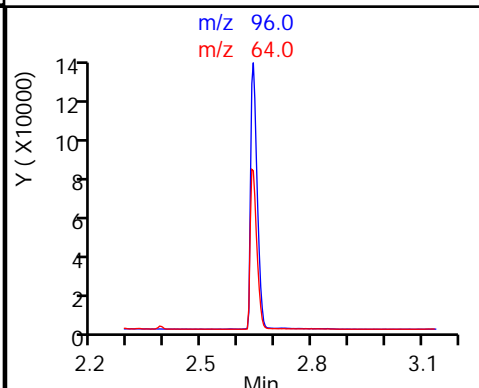
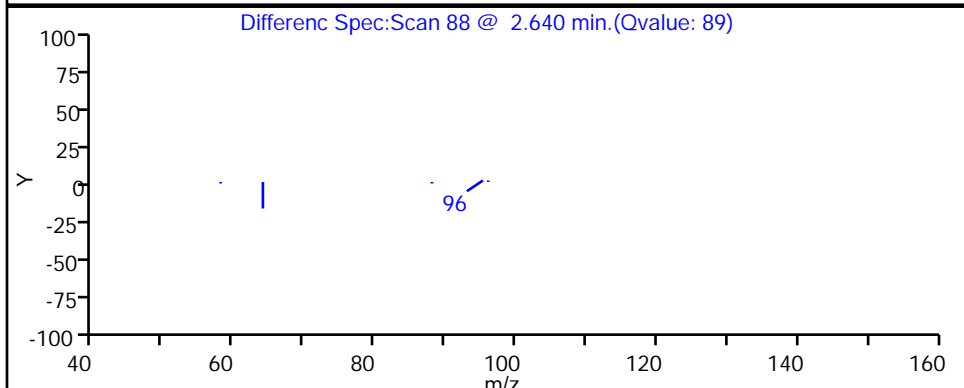
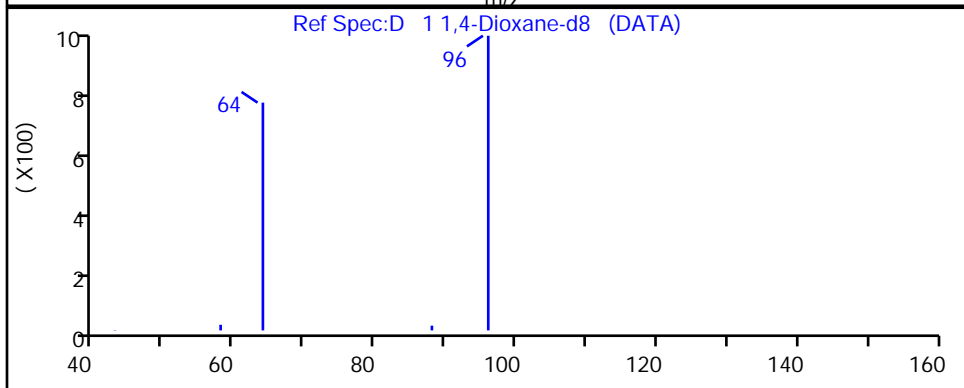
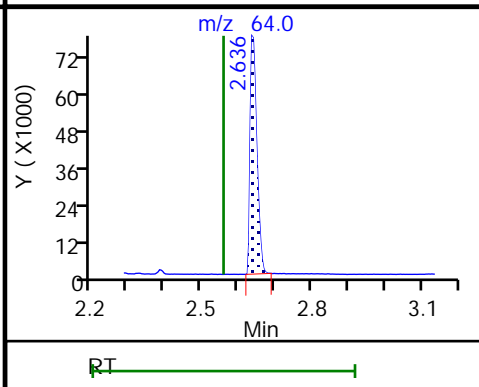
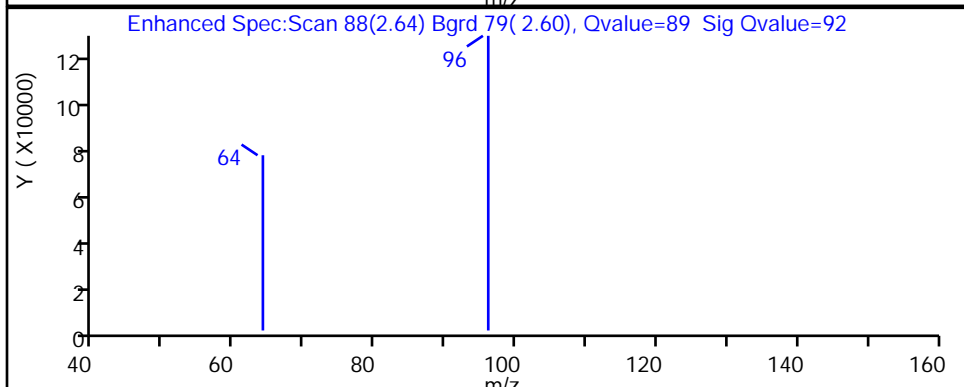
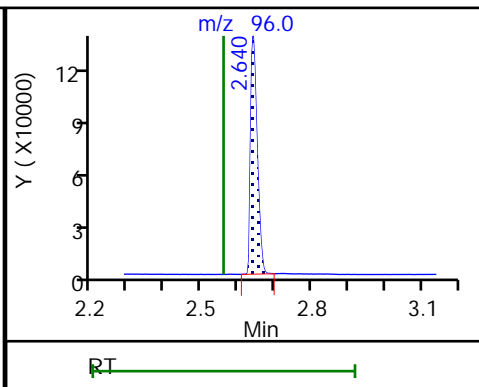
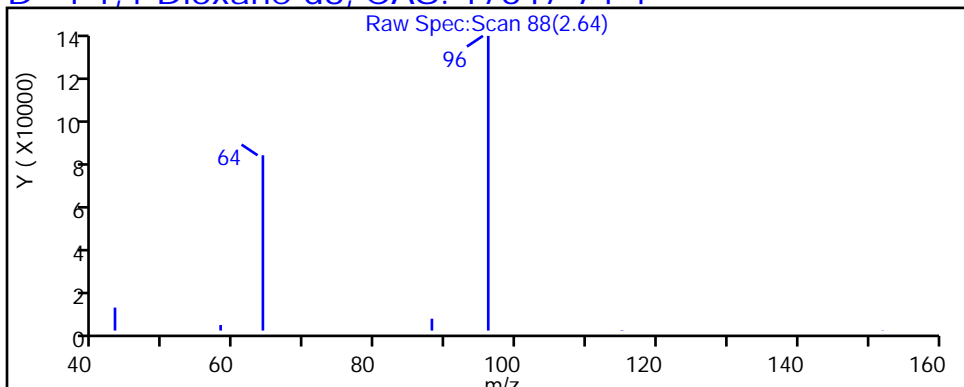
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8BD Lab Sample ID: 480-156213-2  
 Matrix: Water Lab File ID: U33151390.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/09/2019 13:20  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/18/2019 22:07  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.4	H E	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151390.D  
 Lims ID: 480-156213-B-2-A  
 Client ID: 356023-MW8BD  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 22:07:30 ALS Bottle#: 27 Worklist Smp#: 27  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 27  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:58 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 19-Jul-2019 16:36:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.652	2.558	0.094	91	195194	3.90	39.0	
3 1,4-Dioxane	88	2.689	2.615	0.074	87	46310	2.42		E
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	97	434031	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151390.D

Injection Date: 18-Jul-2019 22:07:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-2-A

Lab Sample ID: 480-156213-2

Worklist Smp#: 27

Client ID: 356023-MW8BD

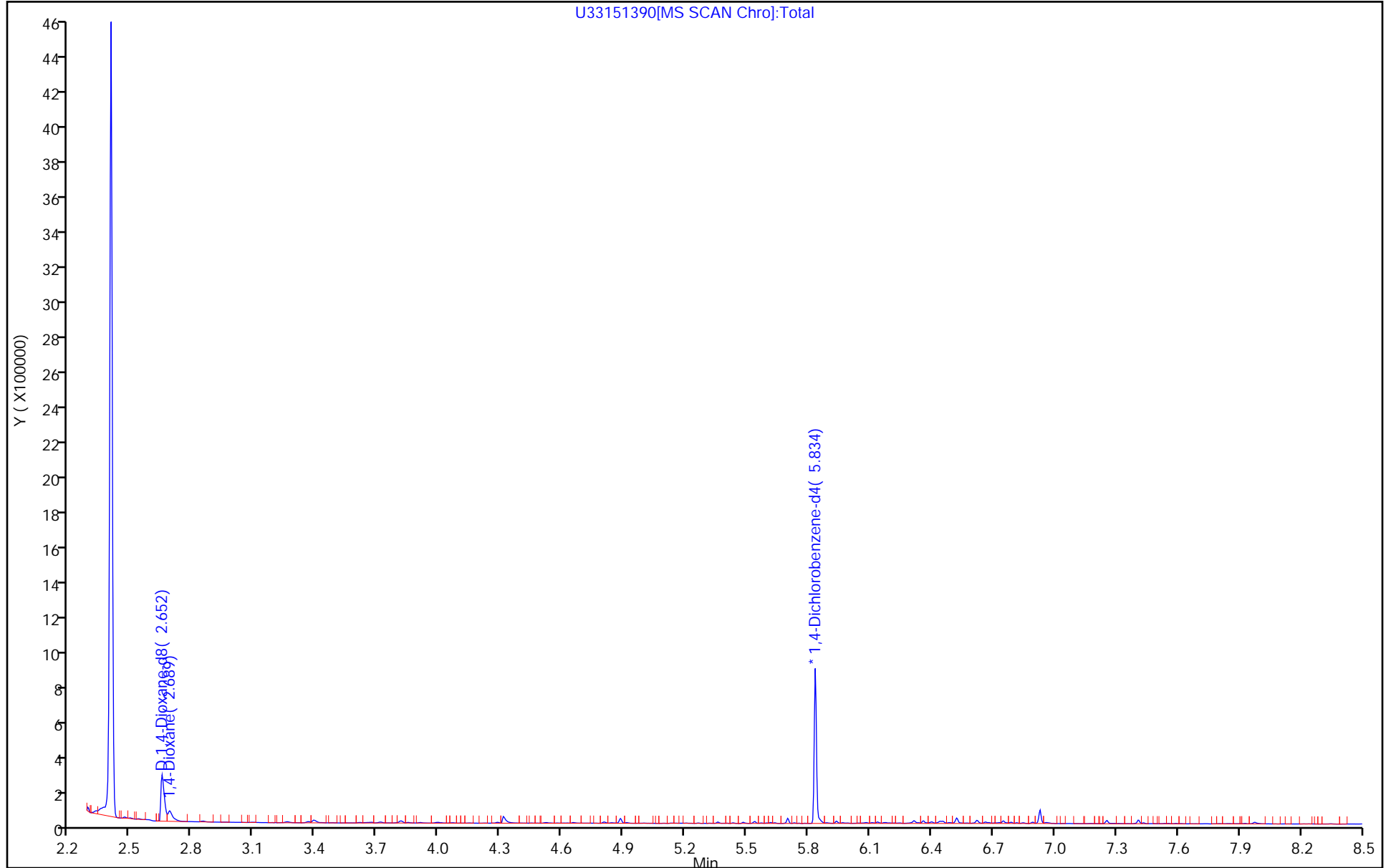
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 27

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151390.D

Injection Date: 18-Jul-2019 22:07:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-2-A

Lab Sample ID: 480-156213-2

Client ID: 356023-MW8BD

Operator ID: bs

ALS Bottle#: 27

Worklist Smp#: 27

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

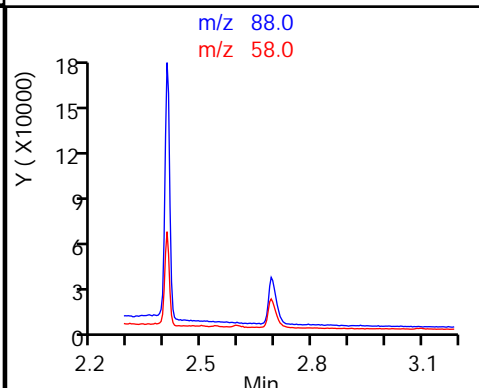
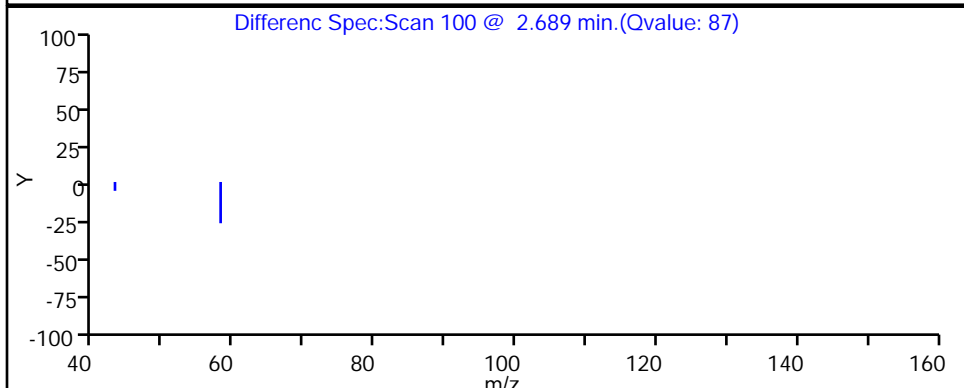
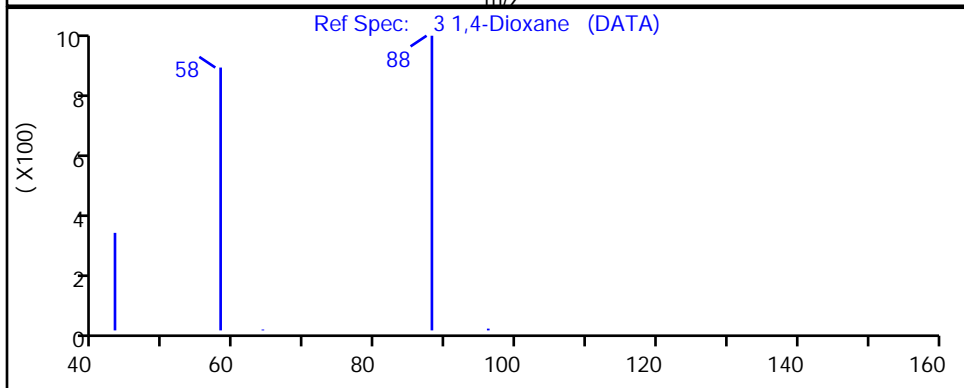
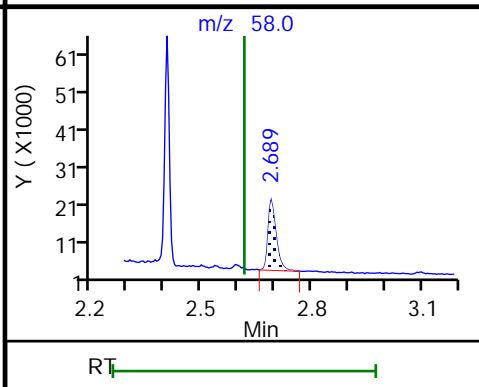
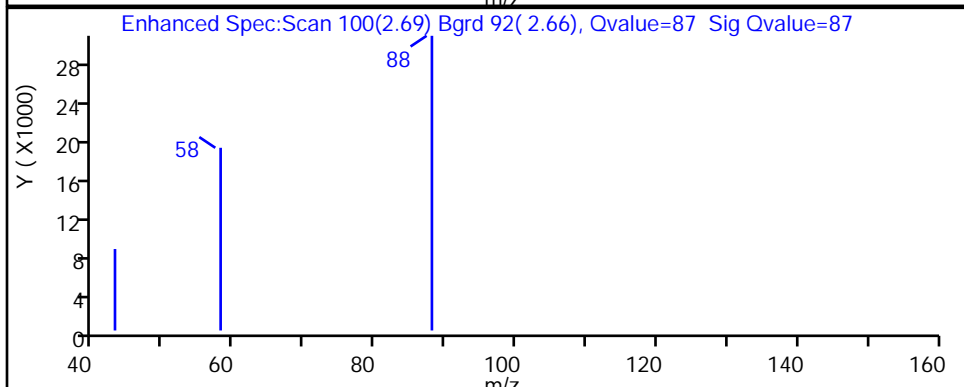
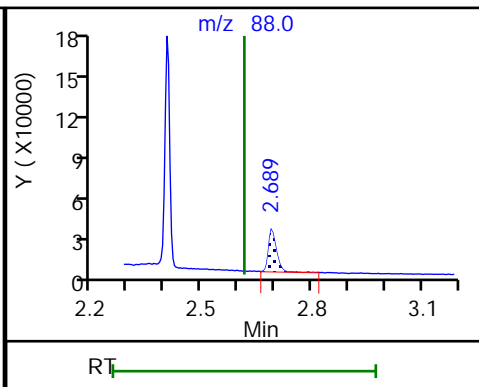
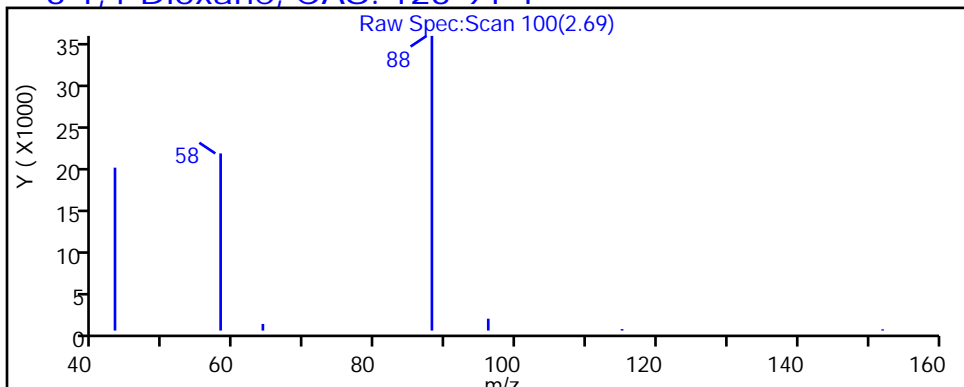
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151390.D

Injection Date: 18-Jul-2019 22:07:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-2-A

Lab Sample ID: 480-156213-2

Client ID: 356023-MW8BD

Operator ID: bs

ALS Bottle#: 27

Worklist Smp#: 27

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

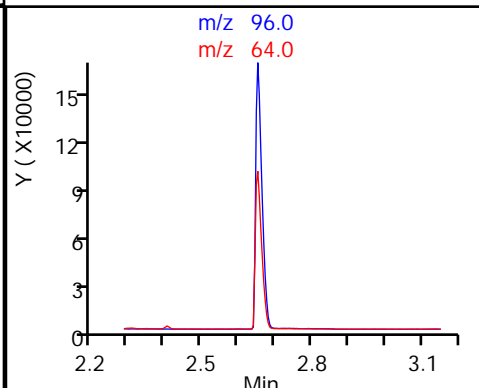
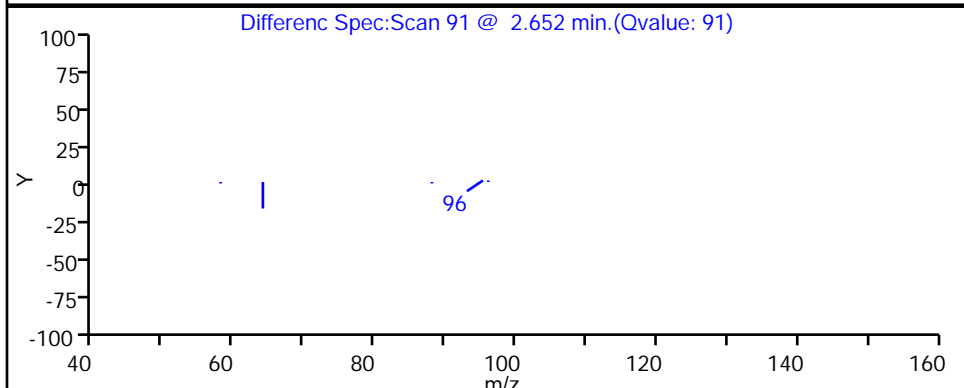
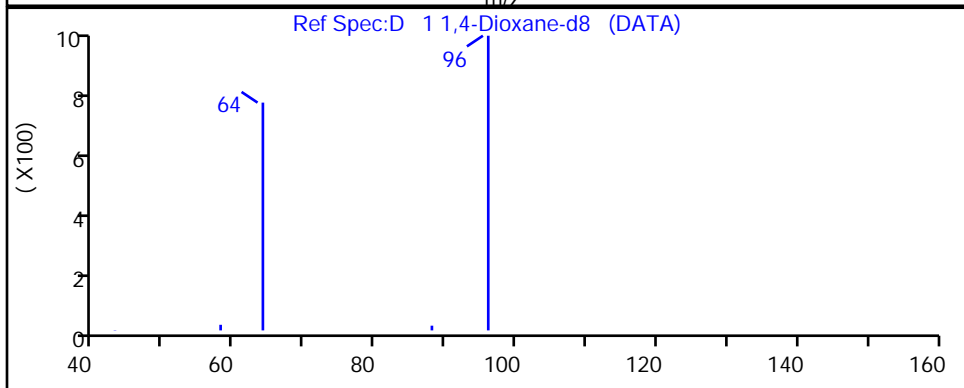
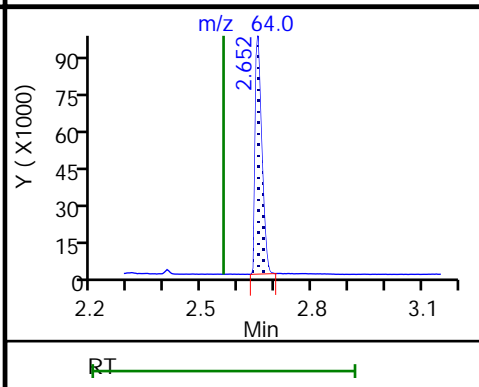
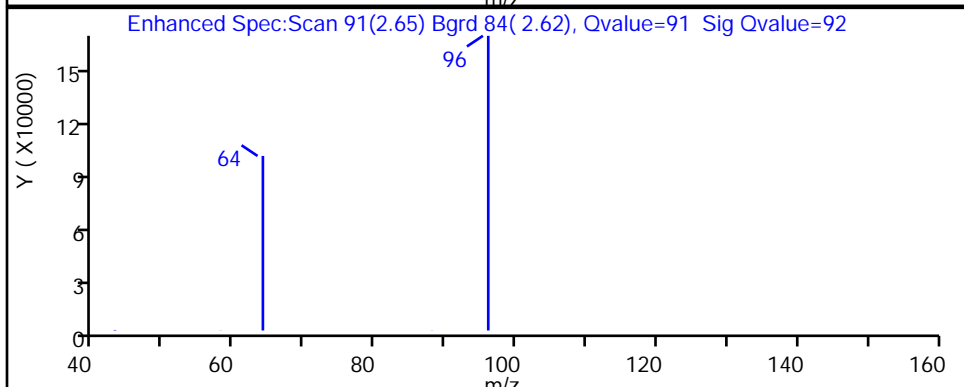
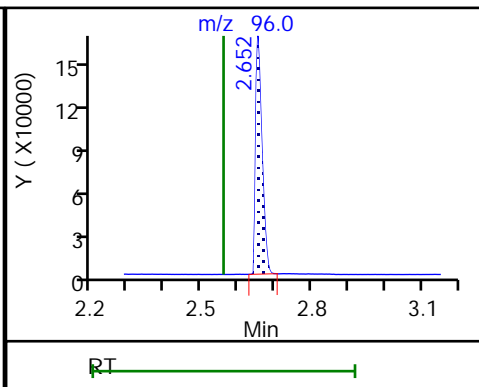
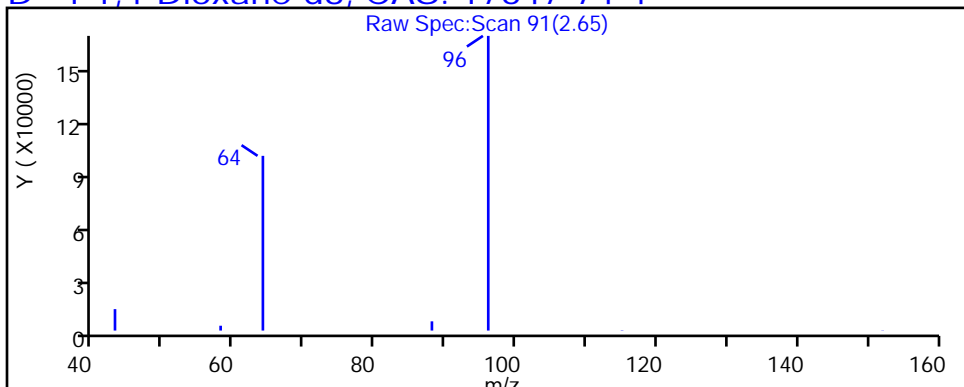
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW16 Lab Sample ID: 480-156213-3  
 Matrix: Water Lab File ID: U33151427.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/09/2019 17:10  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 17:29  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 5  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.2	H	1.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151427.D  
 Lims ID: 480-156213-A-3-A  
 Client ID: 356023-MW16  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 17:29:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 5.0000  
 Sample Info: 10  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:36:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.603	2.575	0.028	86	36459	0.7718	38.6	
3 1,4-Dioxane	88	2.640	2.611	0.029	84	14863	0.8302		M
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	98	409425	4.00		

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151427.D

Injection Date: 21-Jul-2019 17:29:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-3-A

Lab Sample ID: 480-156213-3

Worklist Smp#: 10

Client ID: 356023-MW16

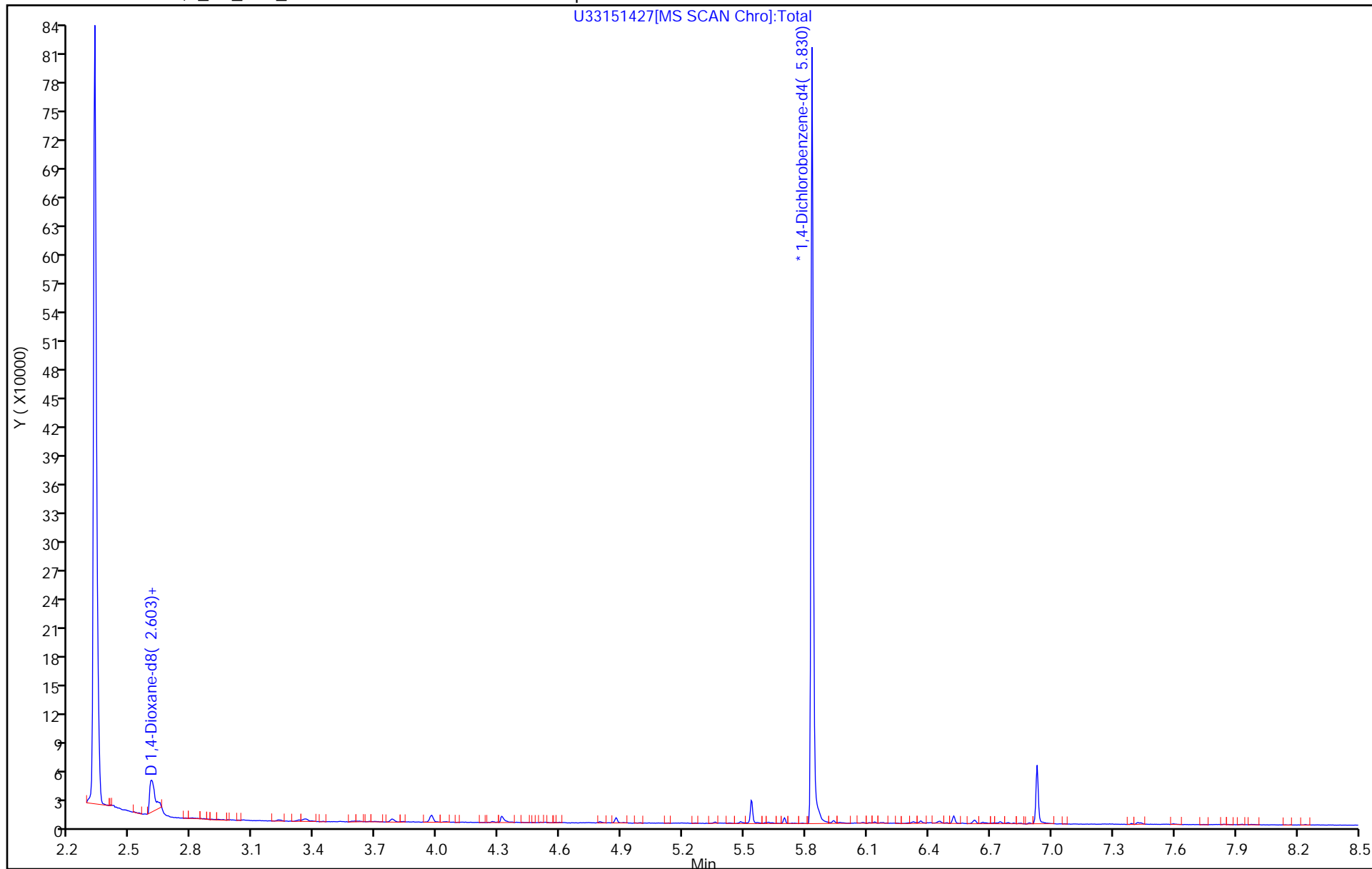
Injection Vol: 1.0 ul

Dil. Factor: 5.0000

ALS Bottle#: 10

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151427.D

Injection Date: 21-Jul-2019 17:29:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-3-A

Lab Sample ID: 480-156213-3

Client ID: 356023-MW16

Operator ID: bs

ALS Bottle#: 10

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

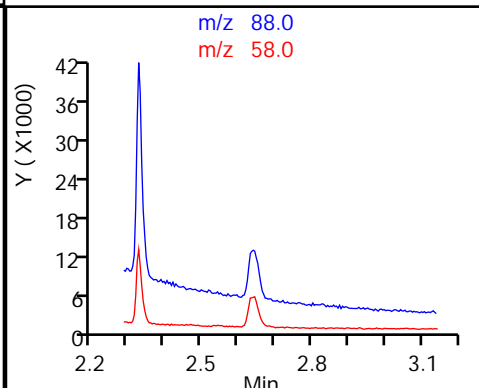
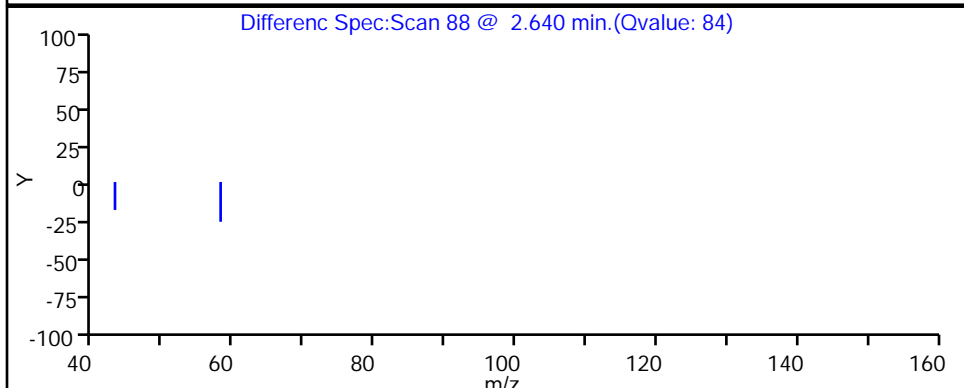
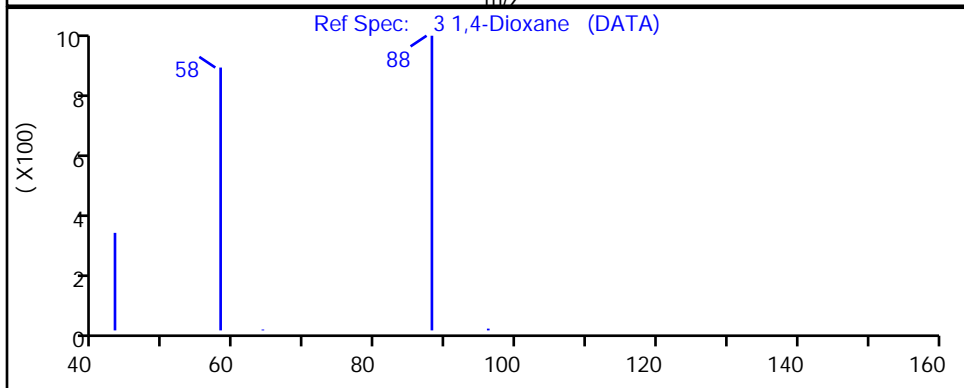
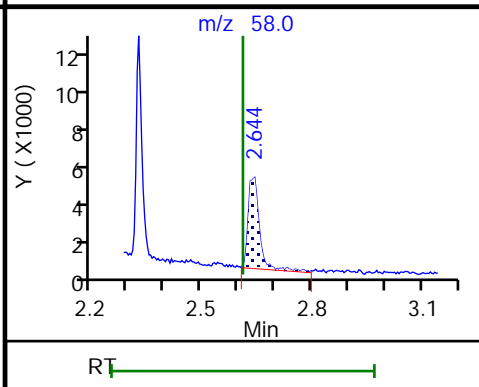
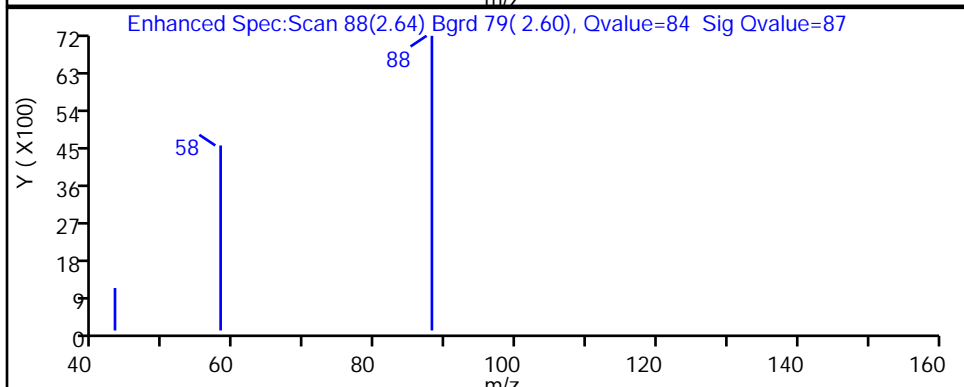
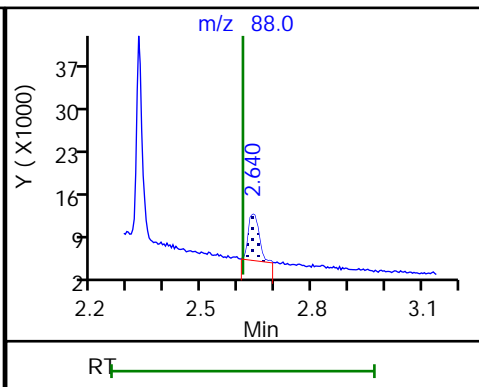
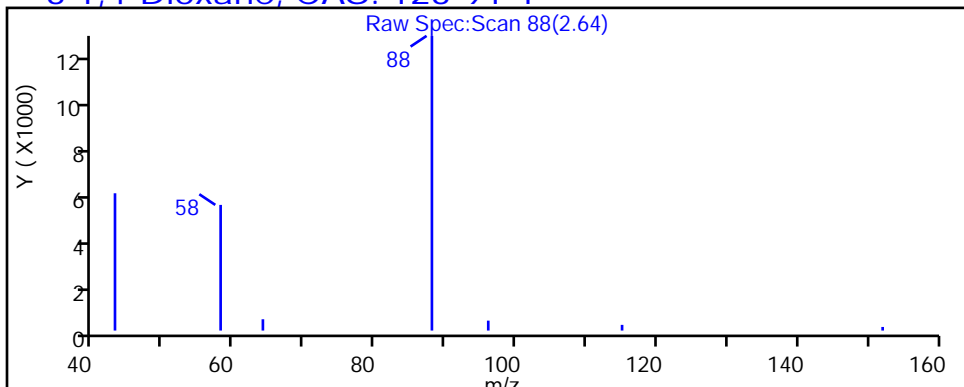
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151427.D

Injection Date: 21-Jul-2019 17:29:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-3-A

Lab Sample ID: 480-156213-3

Client ID: 356023-MW16

Operator ID: bs

ALS Bottle#: 10

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

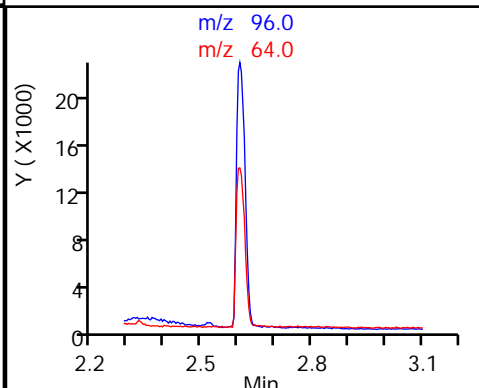
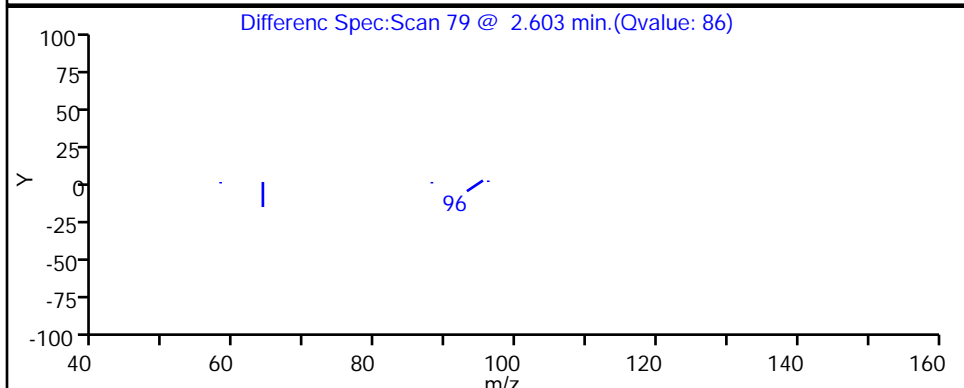
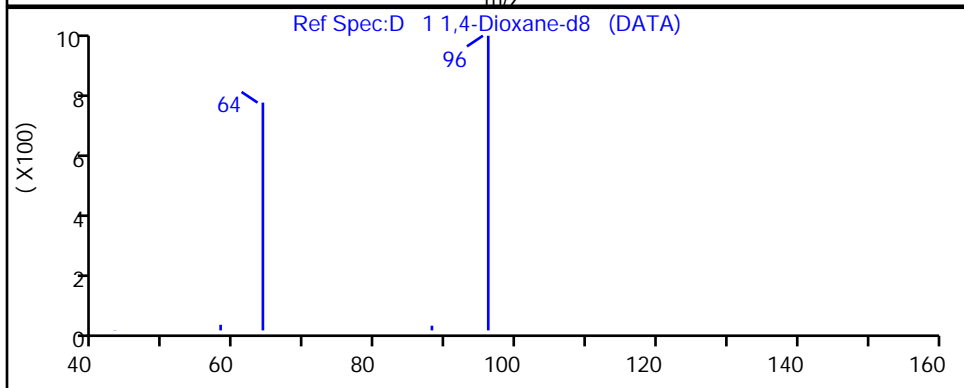
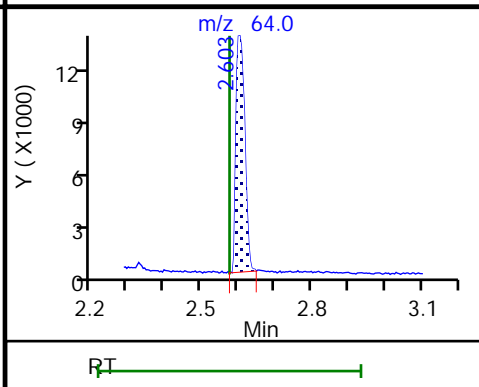
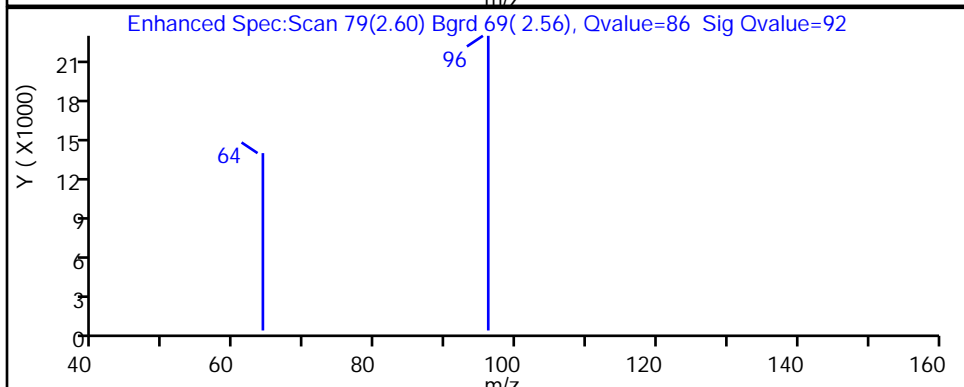
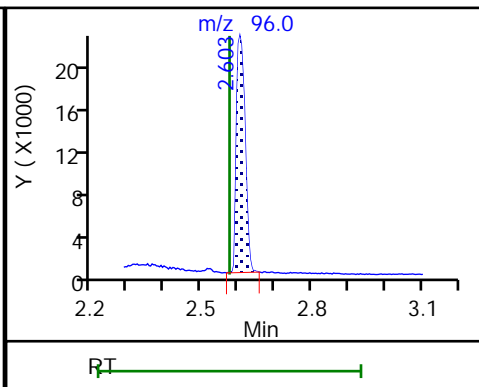
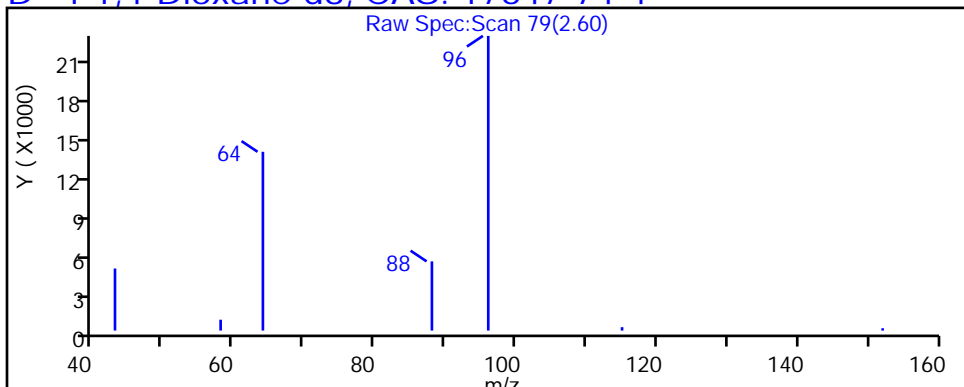
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4





Euofins TestAmerica, Buffalo

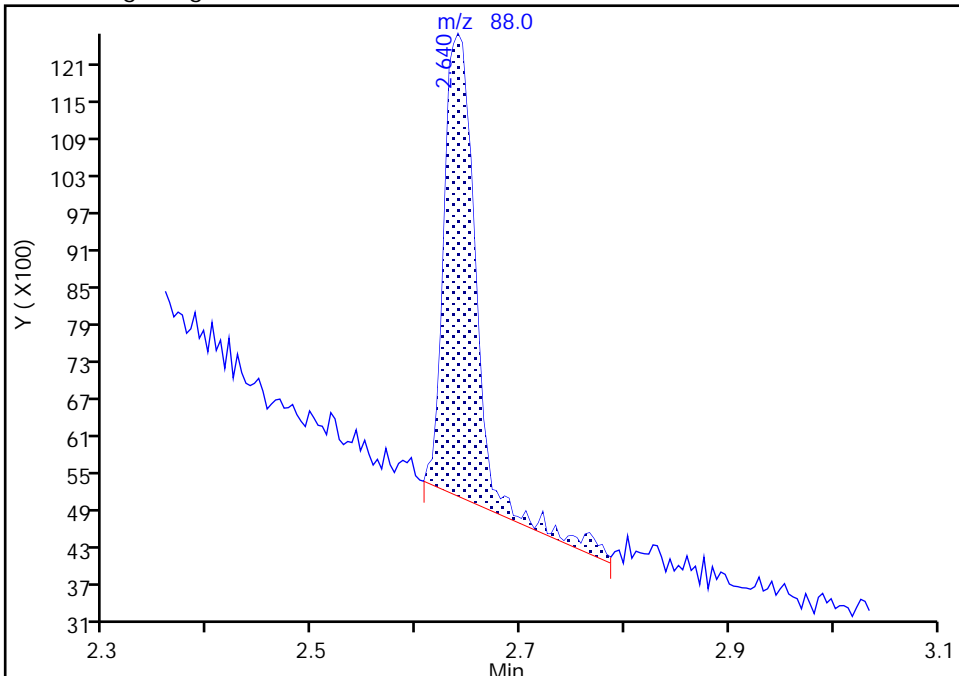
Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151427.D  
Injection Date: 21-Jul-2019 17:29:30 Instrument ID: HP5973U  
Lims ID: 480-156213-A-3-A Lab Sample ID: 480-156213-3  
Client ID: 356023-MW16  
Operator ID: bs ALS Bottle#: 10 Worklist Smp#: 10  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

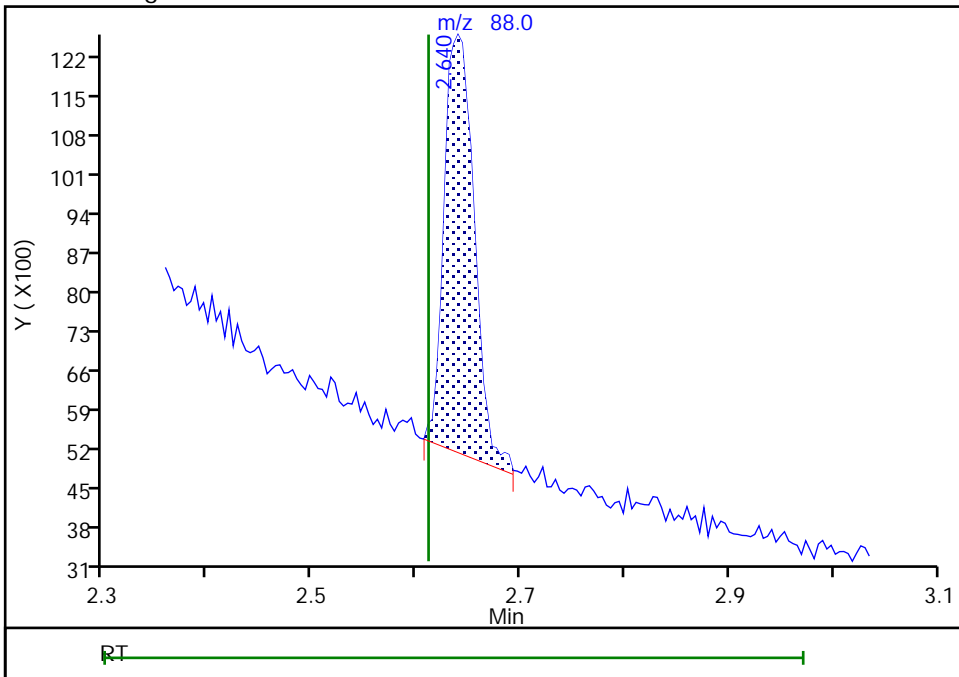
RT: 2.64  
Area: 15711  
Amount: 0.877615  
Amount Units: ng/ul

Processing Integration Results



RT: 2.64  
Area: 14863  
Amount: 0.830246  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 22-Jul-2019 13:36:29  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW14B 150 Lab Sample ID: 480-156213-4  
 Matrix: Water Lab File ID: U33151428.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/09/2019 11:50  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 17:53  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 5  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	3.4	H	1.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	36		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151428.D  
 Lims ID: 480-156213-B-4-A  
 Client ID: 356023-MW14B 150  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 17:53:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 1.0 ul Dil. Factor: 5.0000  
 Sample Info: 11  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:36:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.599	2.575	0.024	86	35782	0.7281	36.4	
3 1,4-Dioxane	88	2.636	2.611	0.025	83	11805	0.6719		M
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	98	425977	4.00		

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151428.D

Injection Date: 21-Jul-2019 17:53:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-4-A

Lab Sample ID: 480-156213-4

Worklist Smp#: 11

Client ID: 356023-MW14B 150

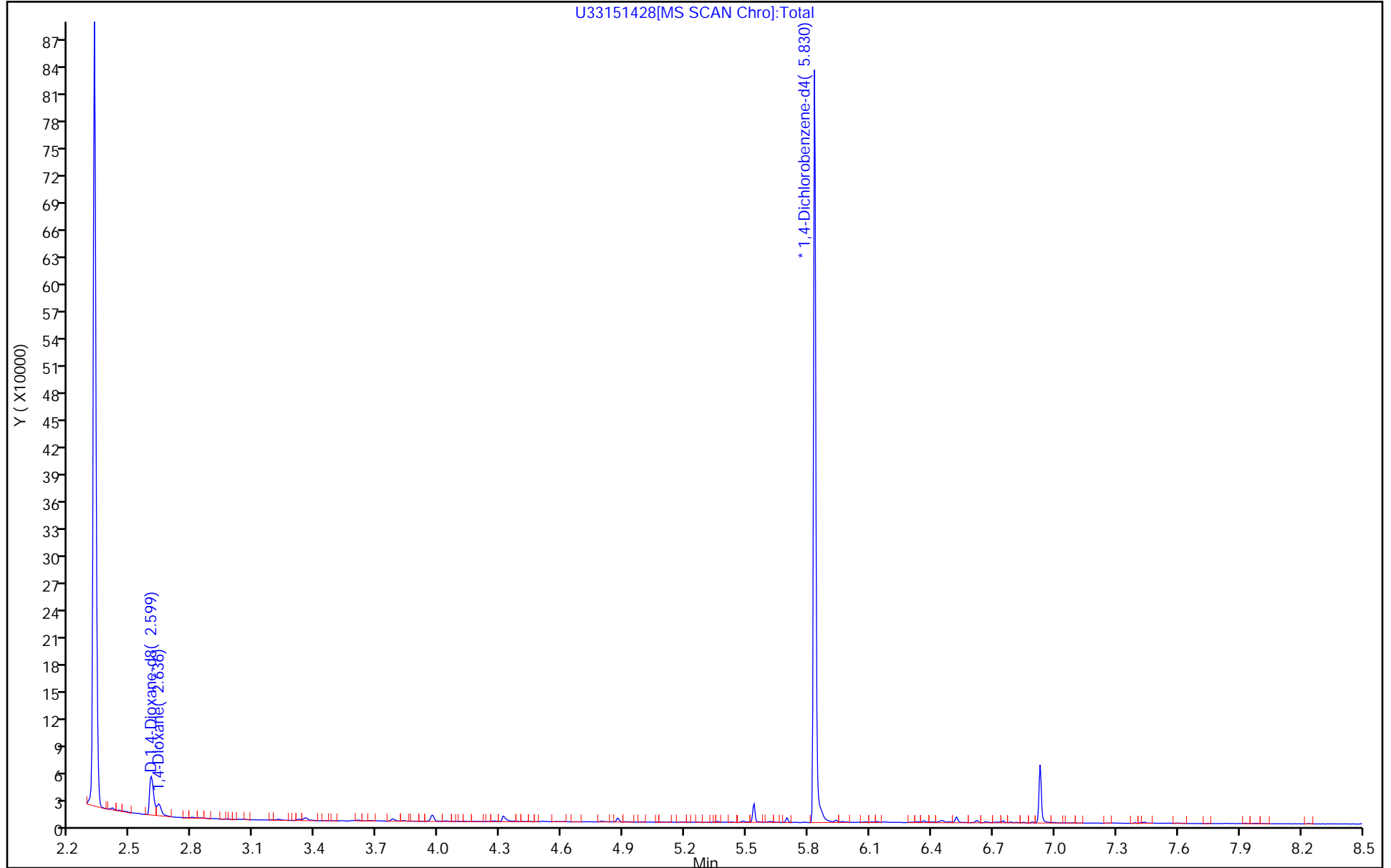
Injection Vol: 1.0 ul

Dil. Factor: 5.0000

ALS Bottle#: 11

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151428.D

Injection Date: 21-Jul-2019 17:53:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-4-A

Lab Sample ID: 480-156213-4

Client ID: 356023-MW14B 150

Operator ID: bs

ALS Bottle#: 11 Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

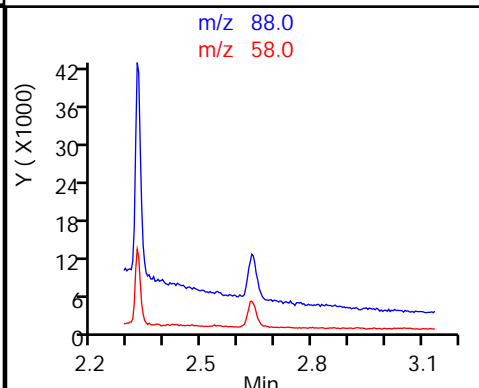
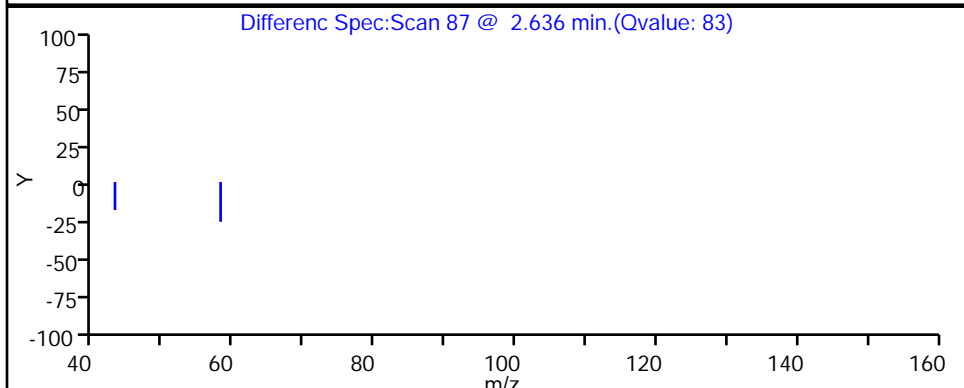
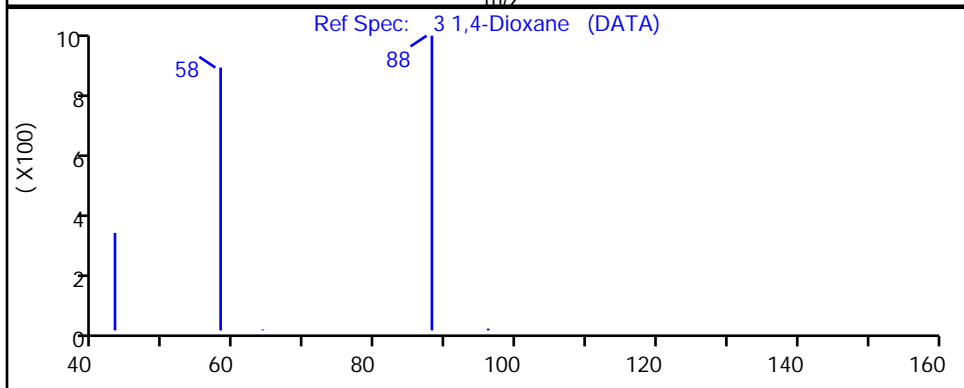
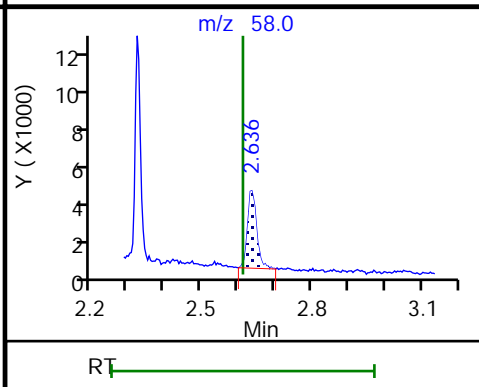
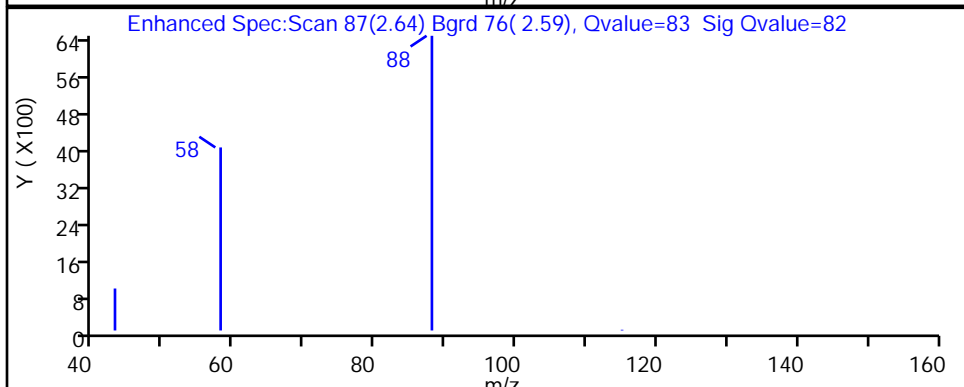
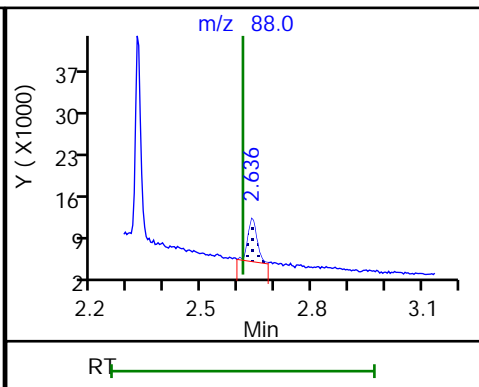
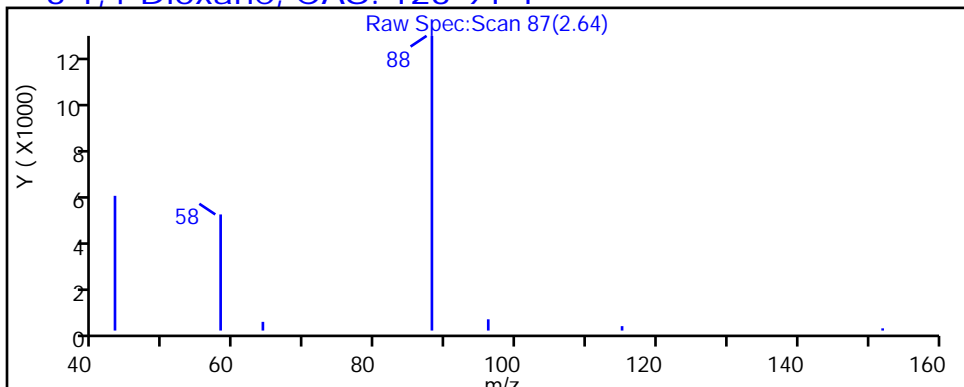
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151428.D

Injection Date: 21-Jul-2019 17:53:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-4-A

Lab Sample ID: 480-156213-4

Client ID: 356023-MW14B 150

Operator ID: bs

ALS Bottle#: 11

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

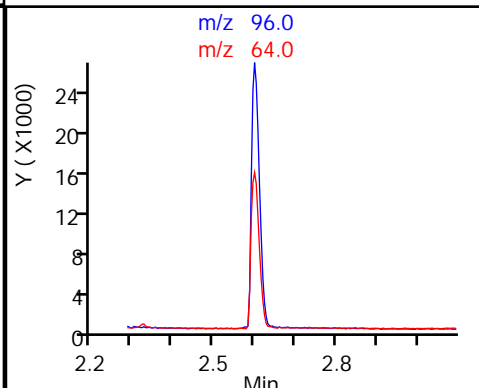
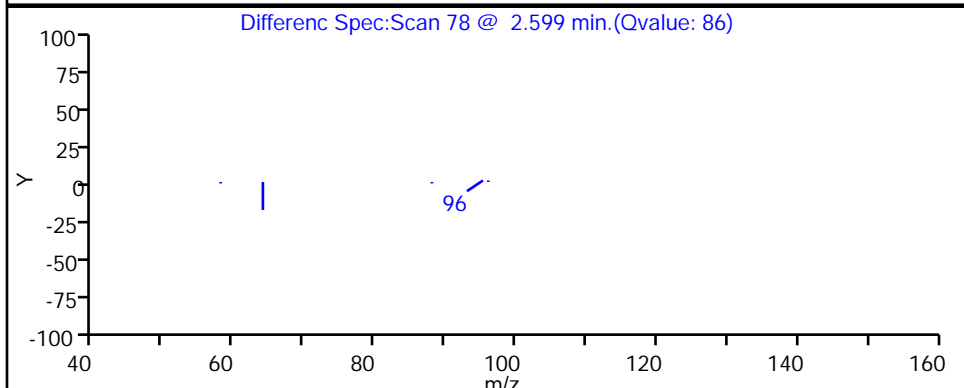
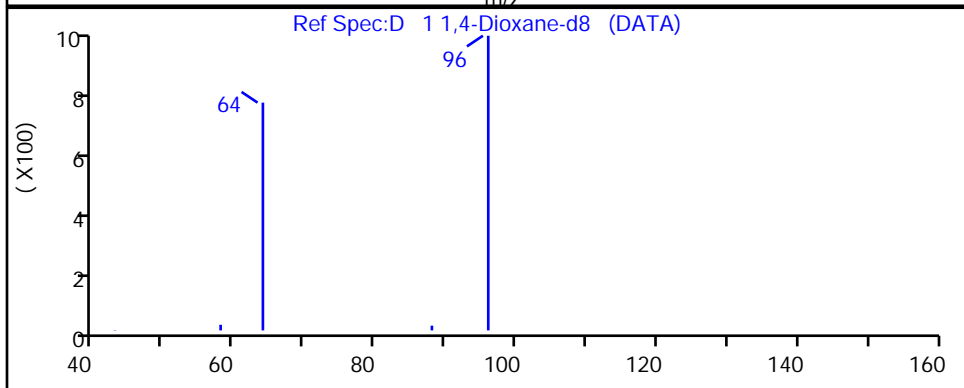
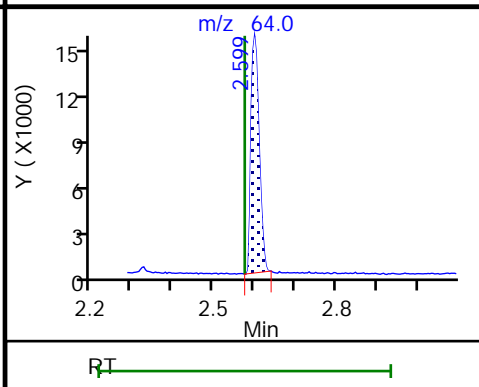
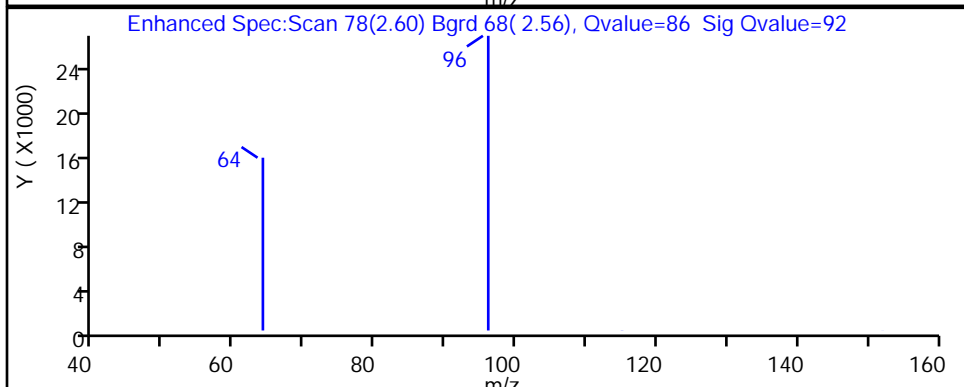
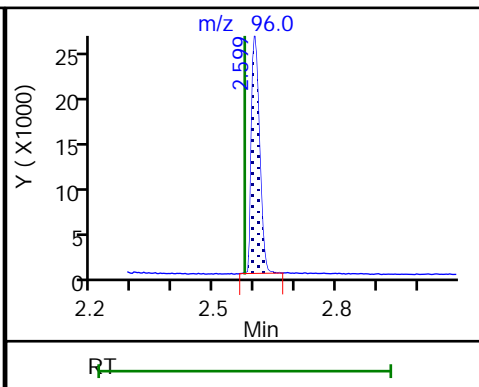
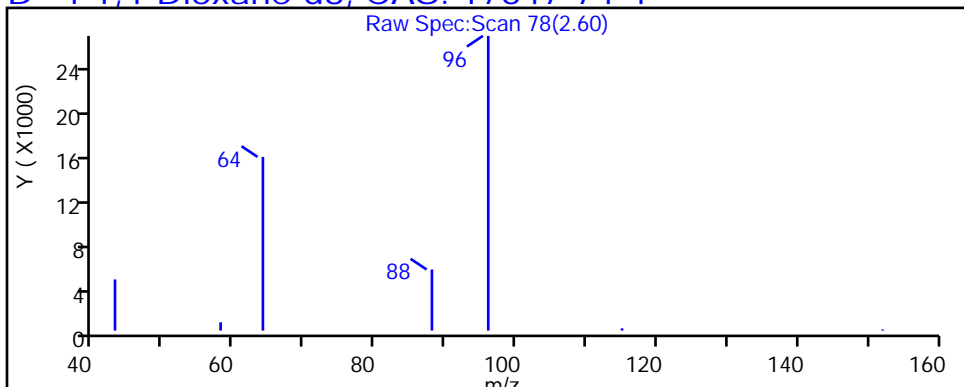
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



Euofins TestAmerica, Buffalo

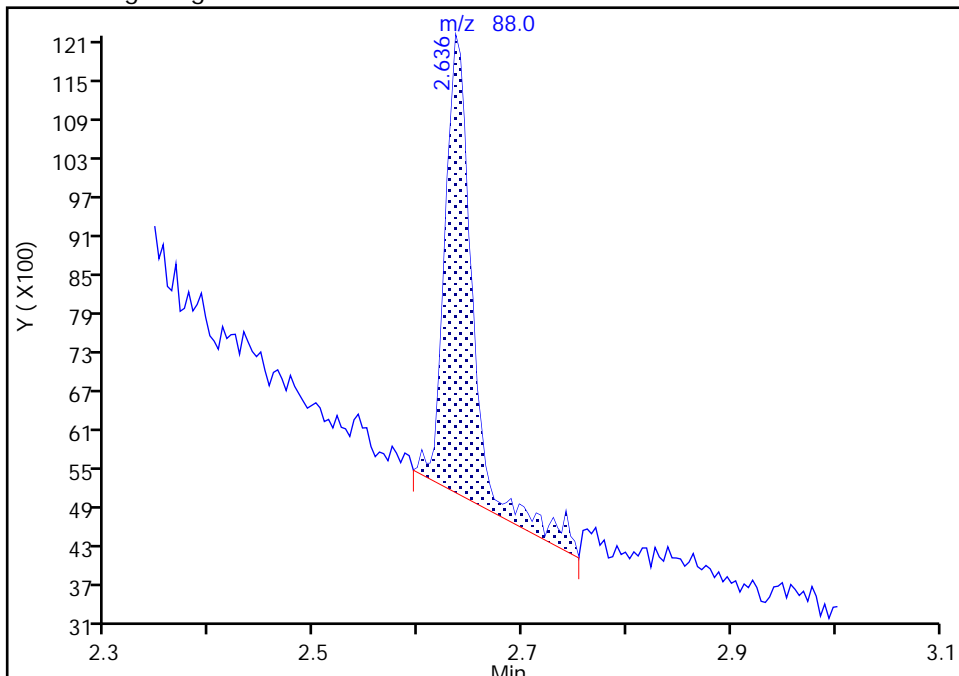
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Injection Date: 21-Jul-2019 17:53:30 Instrument ID: HP5973U  
Lims ID: 480-156213-B-4-A Lab Sample ID: 480-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: bs ALS Bottle#: 11 Worklist Smp#: 11  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

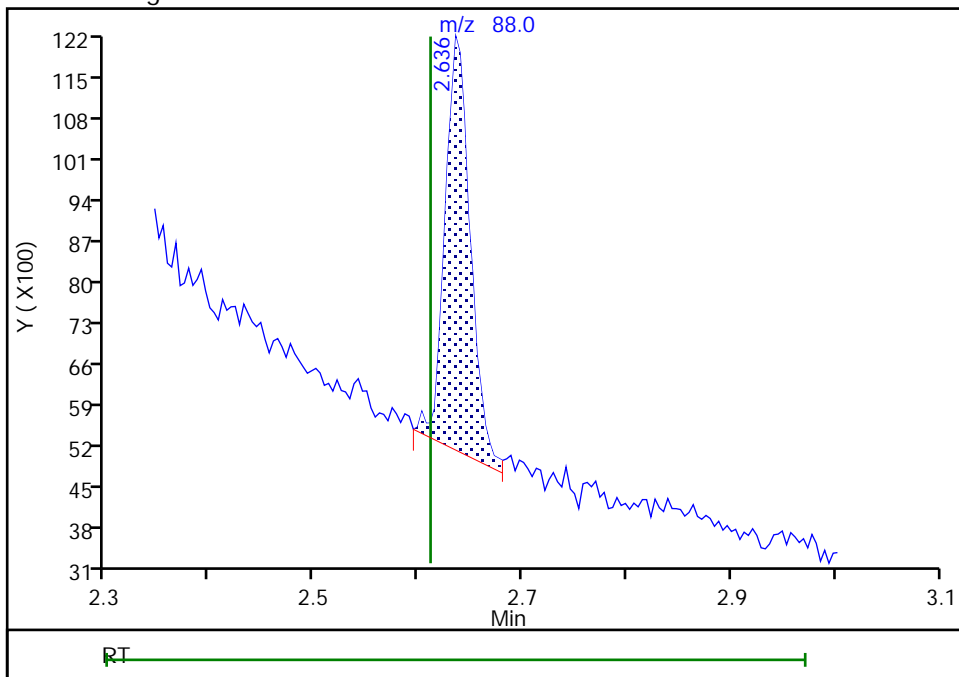
RT: 2.64  
Area: 12963  
Amount: 0.737812  
Amount Units: ng/ul

Processing Integration Results



RT: 2.64  
Area: 11805  
Amount: 0.671903  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 22-Jul-2019 13:36:39  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW12B 190 Lab Sample ID: 480-156213-5  
 Matrix: Water Lab File ID: U33151429.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/09/2019 17:27  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 18:17  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 10  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	9.2	H	2.0	1.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151429.D  
 Lims ID: 480-156213-B-5-A  
 Client ID: 356023-MW12B 190  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 18:17:30 ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 10.0000  
 Sample Info: 12  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:36:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.591	2.575	0.016	90	17108	0.3460	34.6	
3 1,4-Dioxane	88	2.623	2.611	0.012	88	15526	0.9241		M
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	98	428530	4.00		

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151429.D

Injection Date: 21-Jul-2019 18:17:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-5-A

Lab Sample ID: 480-156213-5

Worklist Smp#: 12

Client ID: 356023-MW12B 190

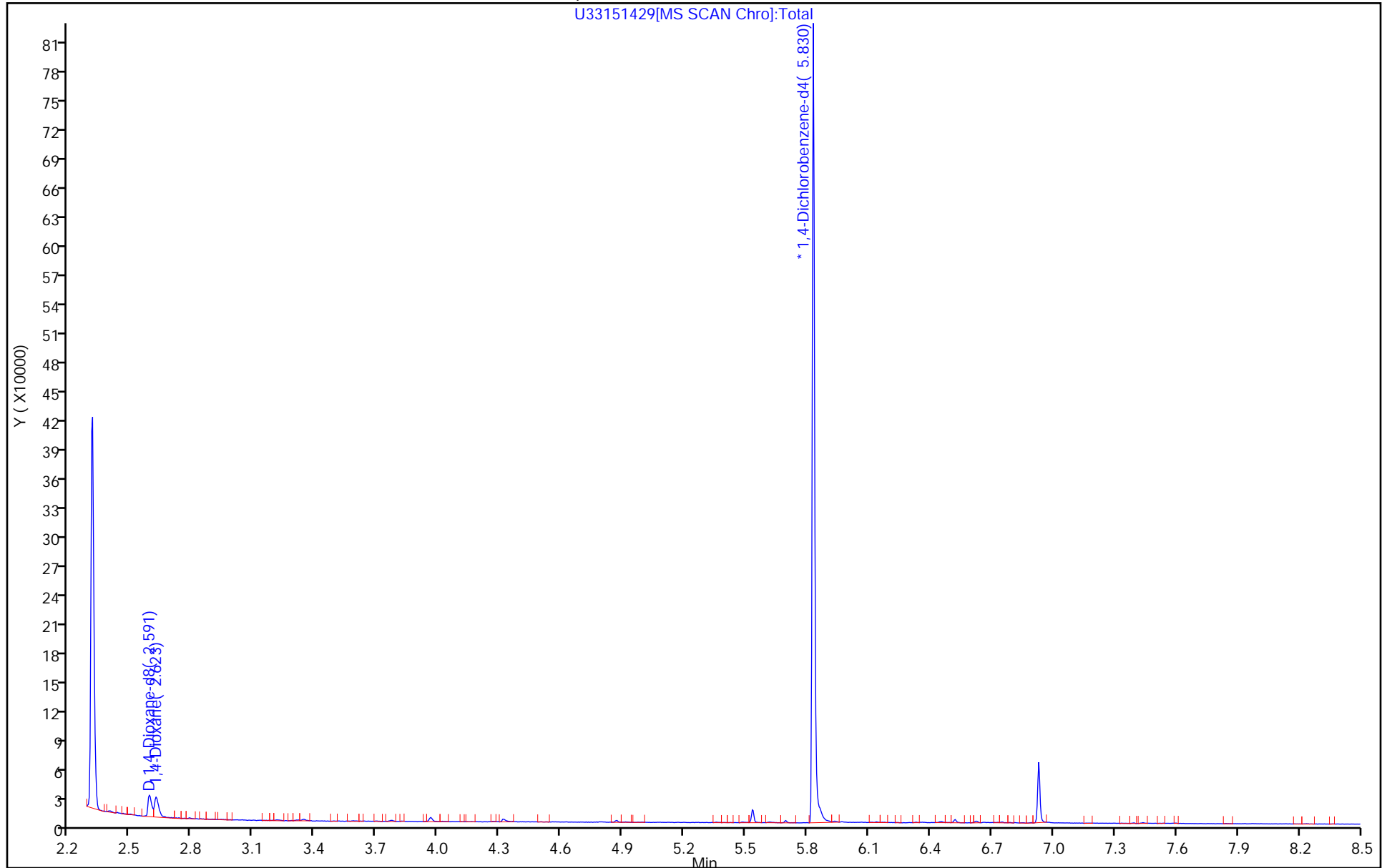
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 12

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151429.D

Injection Date: 21-Jul-2019 18:17:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-5-A

Lab Sample ID: 480-156213-5

Client ID: 356023-MW12B 190

Operator ID: bs

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

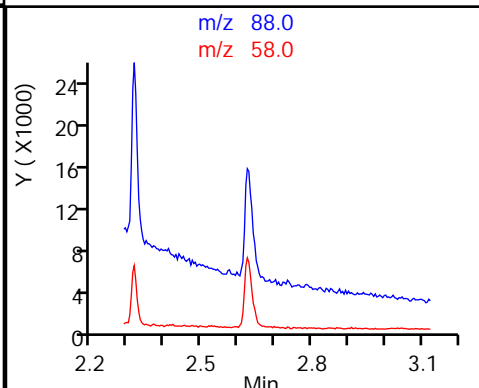
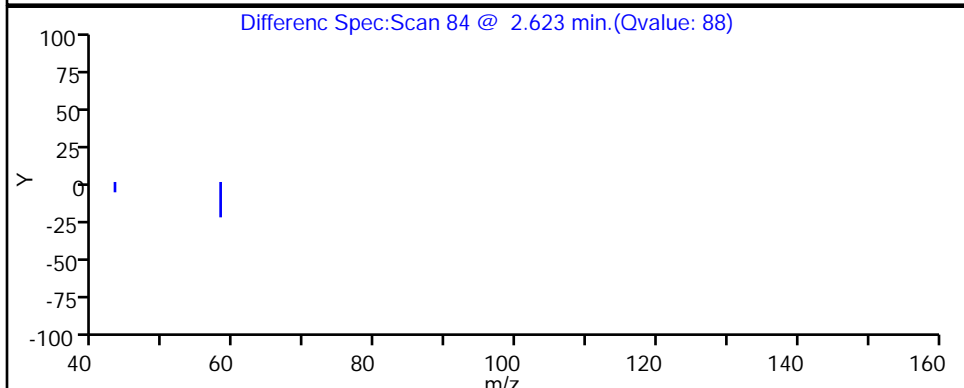
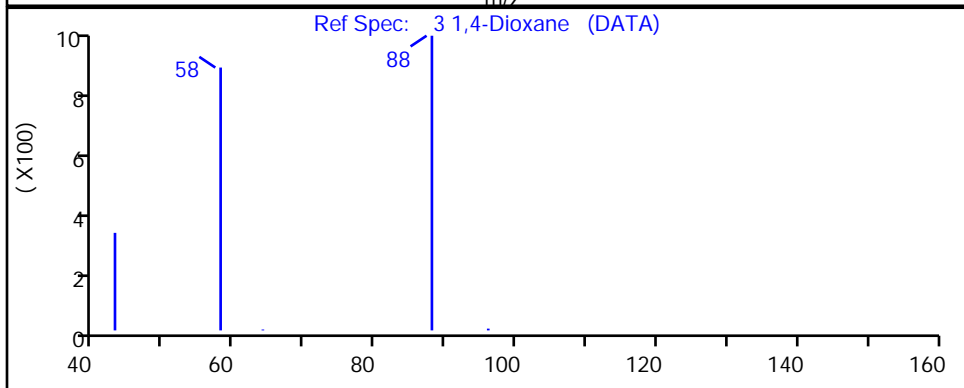
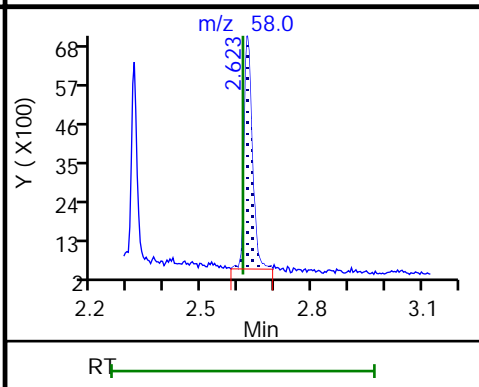
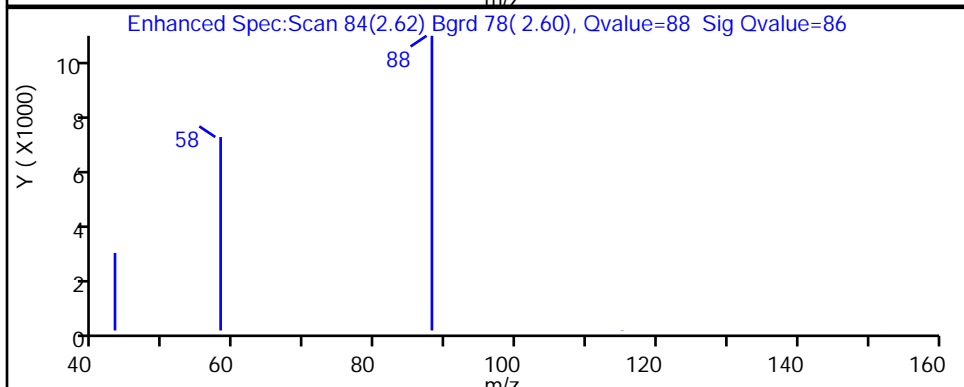
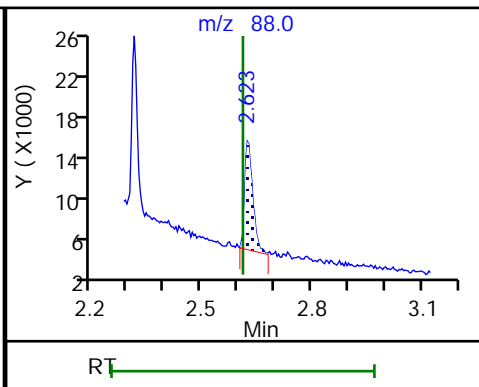
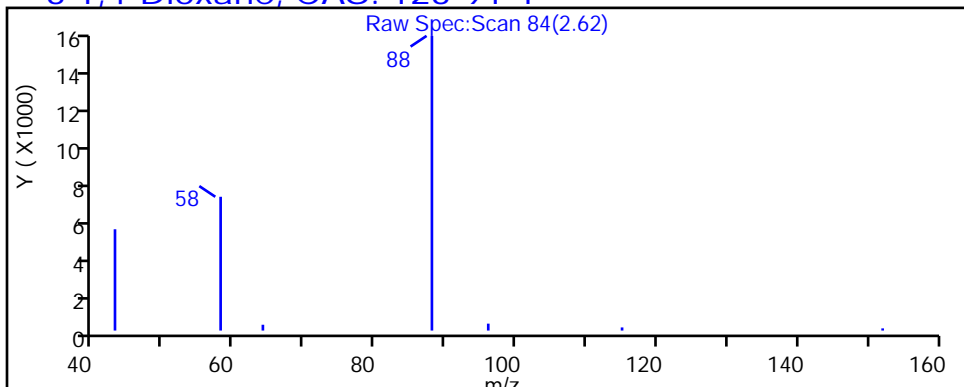
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151429.D

Injection Date: 21-Jul-2019 18:17:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-5-A

Lab Sample ID: 480-156213-5

Client ID: 356023-MW12B 190

Operator ID: bs

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

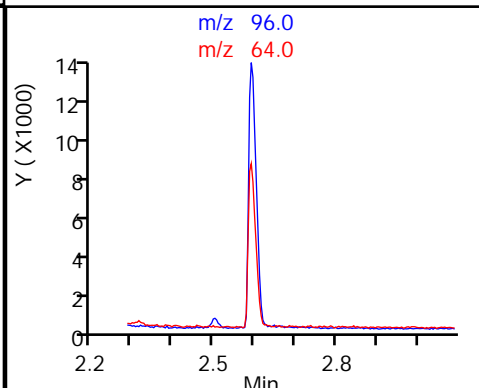
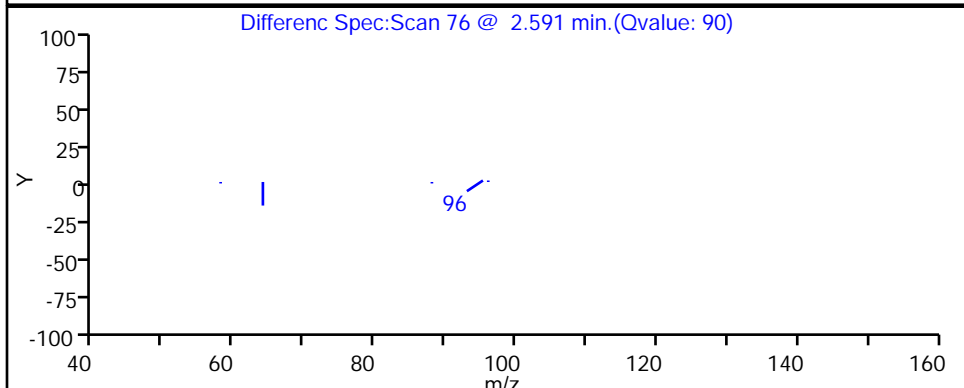
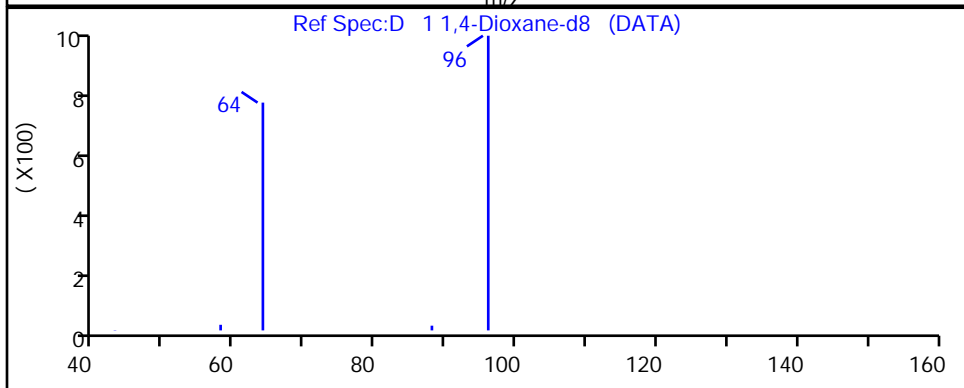
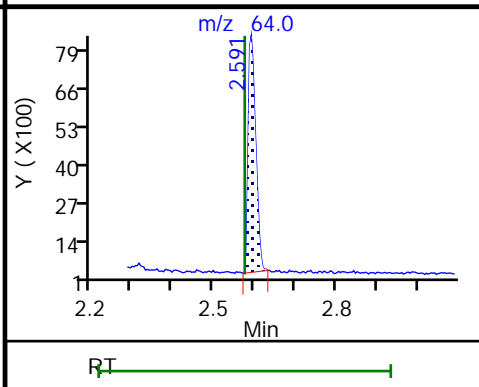
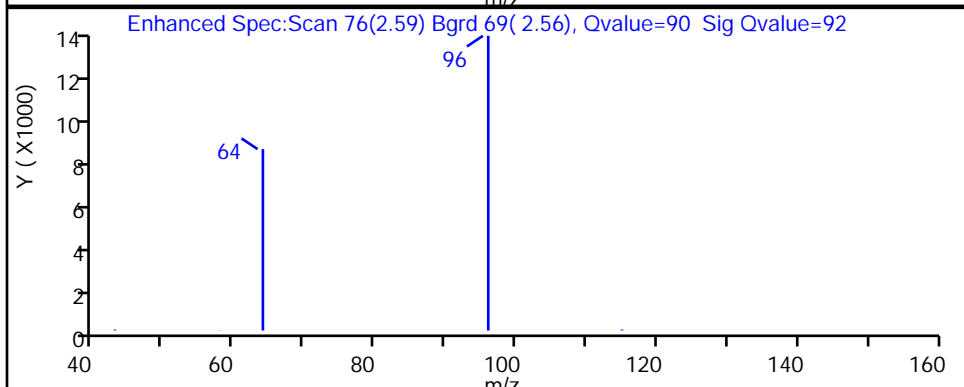
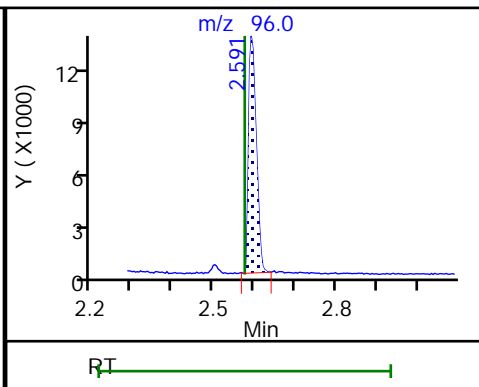
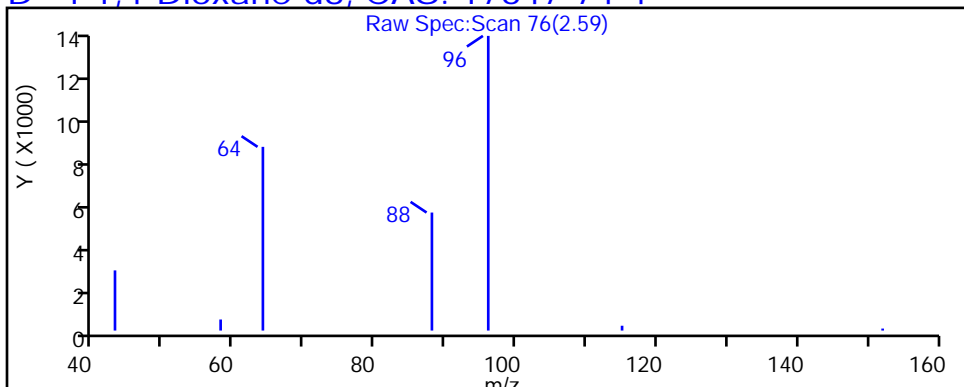
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



Eurofins TestAmerica, Buffalo

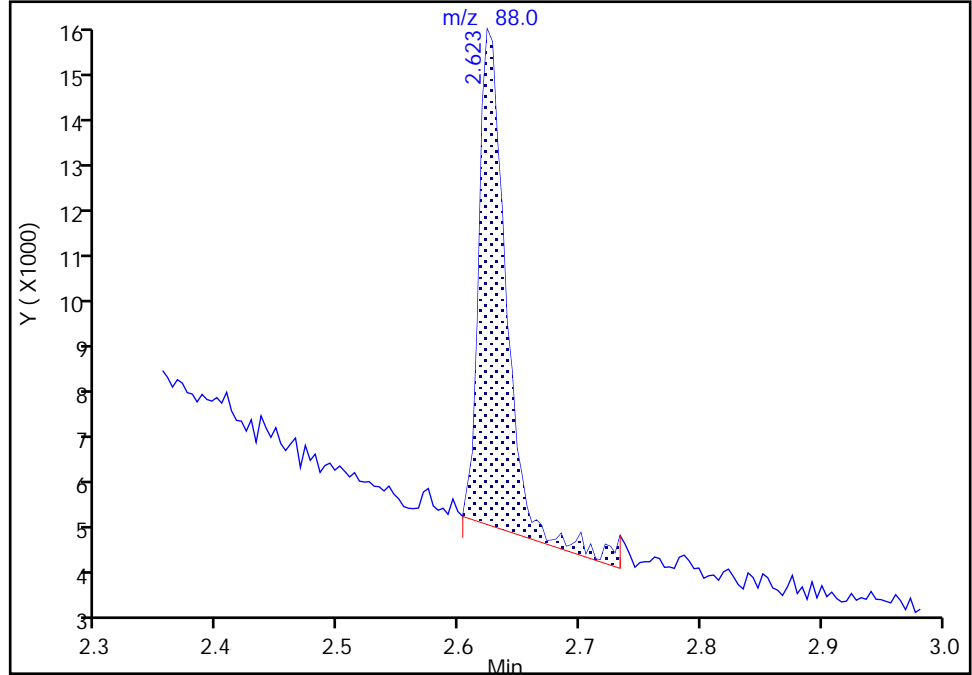
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Lims ID: 480-156213-B-5-A Lab Sample ID: 480-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: bs ALS Bottle#: 12 Worklist Smp#: 12  
Injection Vol: 1.0 ul Dil. Factor: 10.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

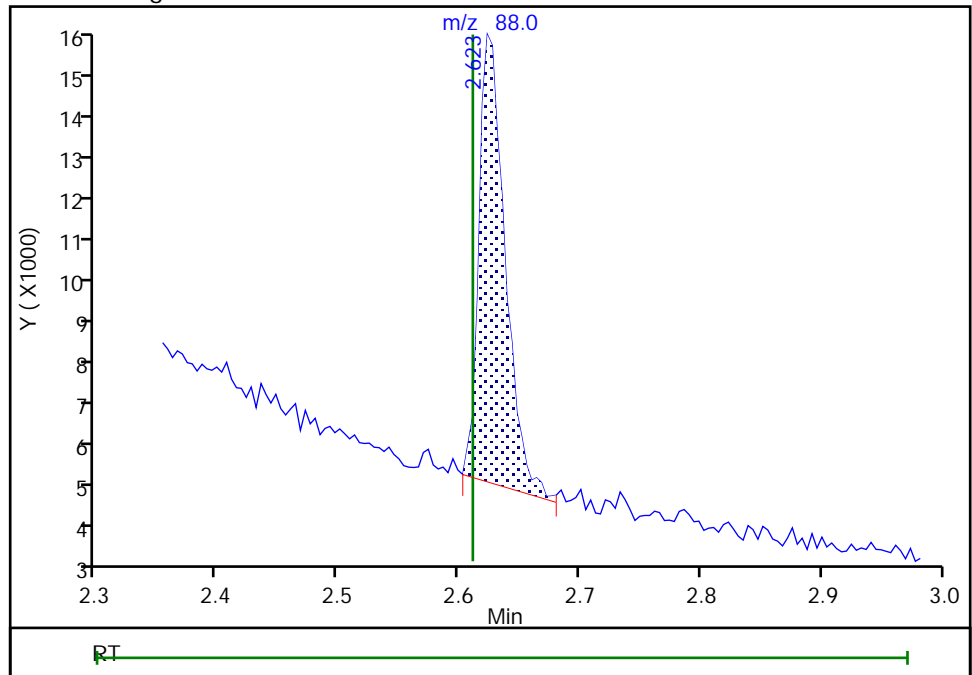
RT: 2.62  
Area: 16302  
Amount: 0.970324  
Amount Units: ng/ul

Processing Integration Results



RT: 2.62  
Area: 15526  
Amount: 0.924135  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 22-Jul-2019 13:36:50  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11B Lab Sample ID: 480-156213-6  
 Matrix: Water Lab File ID: U33151430.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/10/2019 11:37  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 18:40  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 5  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	3.1		1.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	35		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151430.D  
 Lims ID: 480-156213-B-6-A  
 Client ID: 356023-MW11B  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 18:40:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 5.0000  
 Sample Info: 13  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:37:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.595	2.575	0.020	86	34034	0.6973	34.9	
3 1,4-Dioxane	88	2.632	2.611	0.021	85	10456	0.6257		M
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	98	423029	4.00		

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151430.D

Injection Date: 21-Jul-2019 18:40:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-6-A

Lab Sample ID: 480-156213-6

Worklist Smp#: 13

Client ID: 356023-MW11B

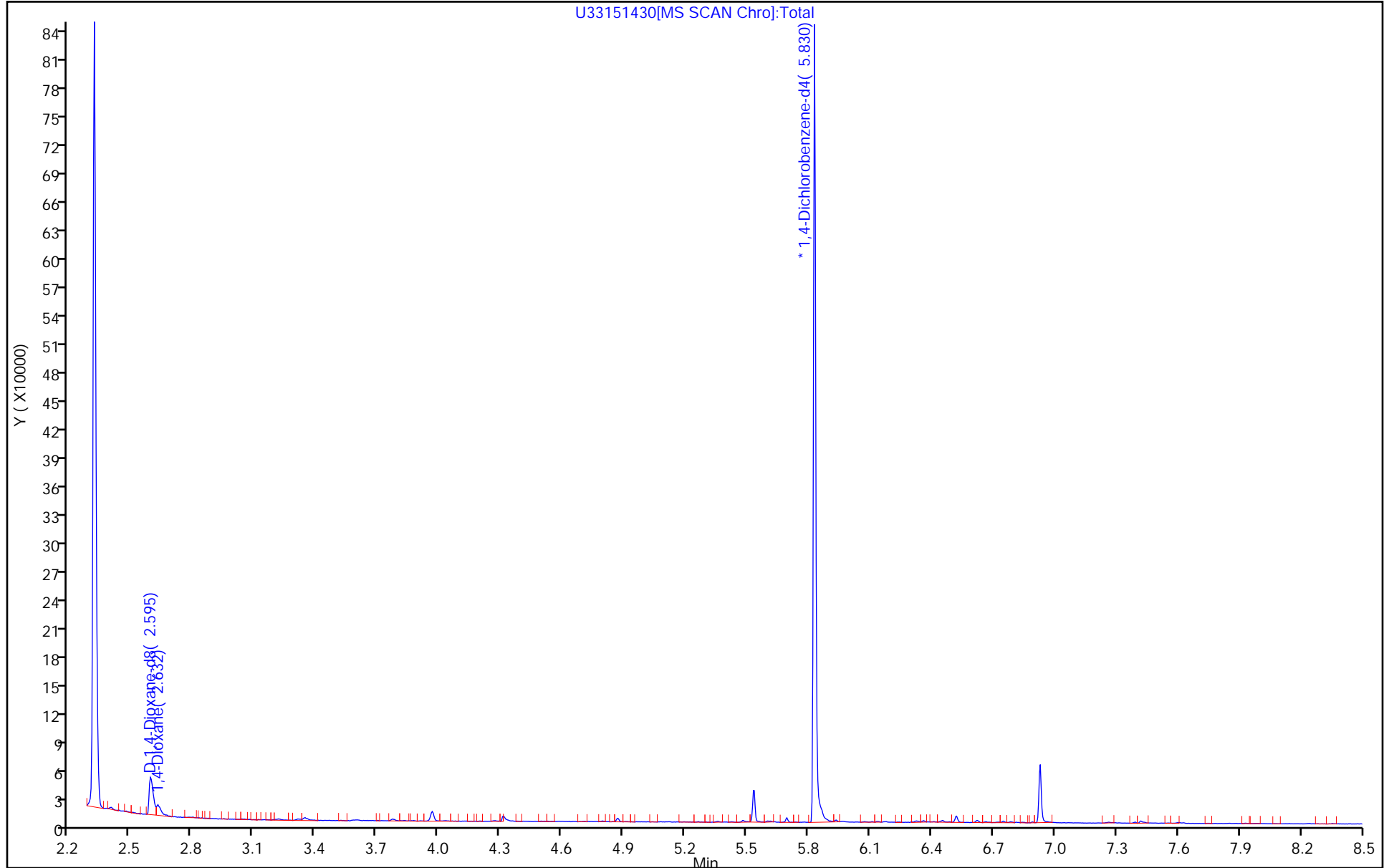
Injection Vol: 1.0 ul

Dil. Factor: 5.0000

ALS Bottle#: 13

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL





Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151430.D

Injection Date: 21-Jul-2019 18:40:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-6-A

Lab Sample ID: 480-156213-6

Client ID: 356023-MW11B

Operator ID: bs

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

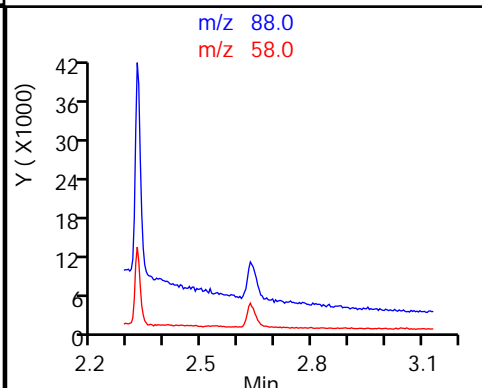
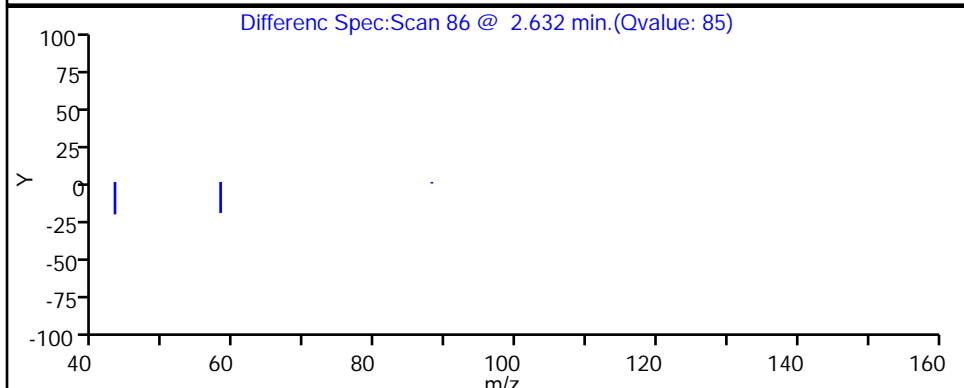
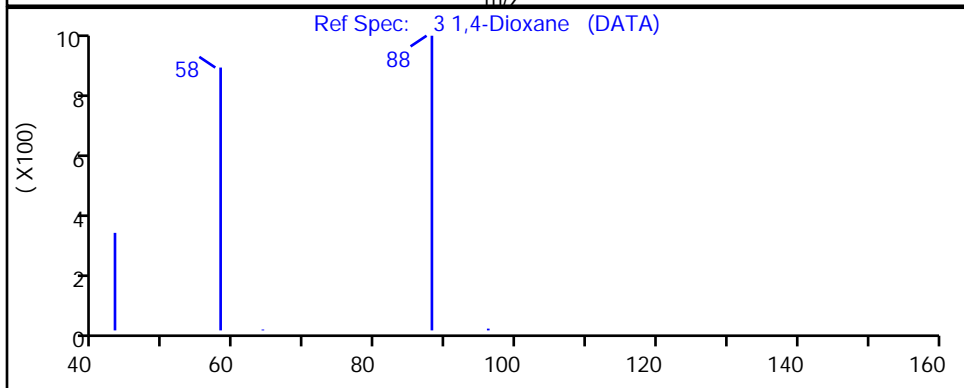
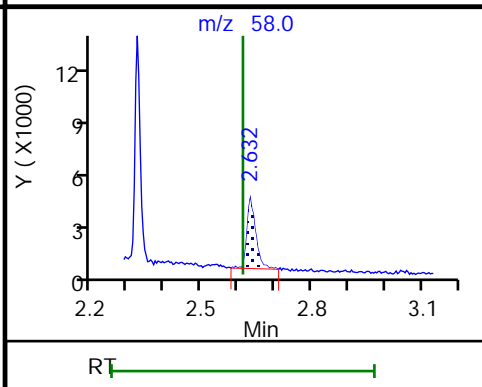
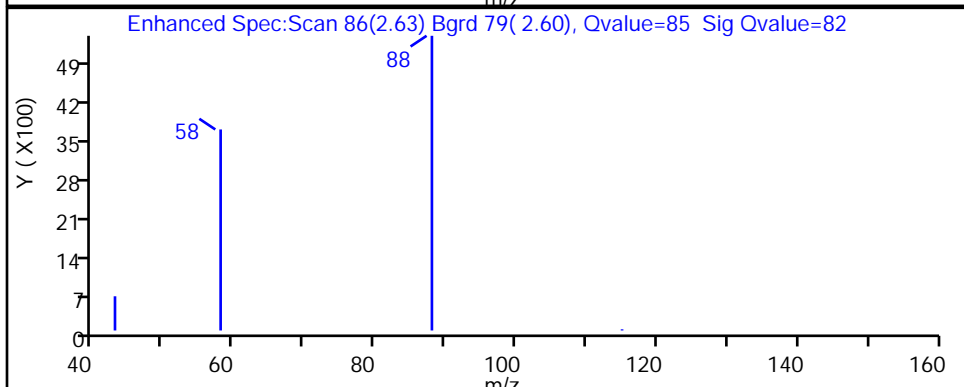
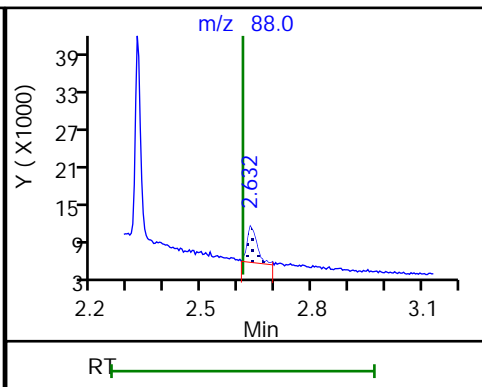
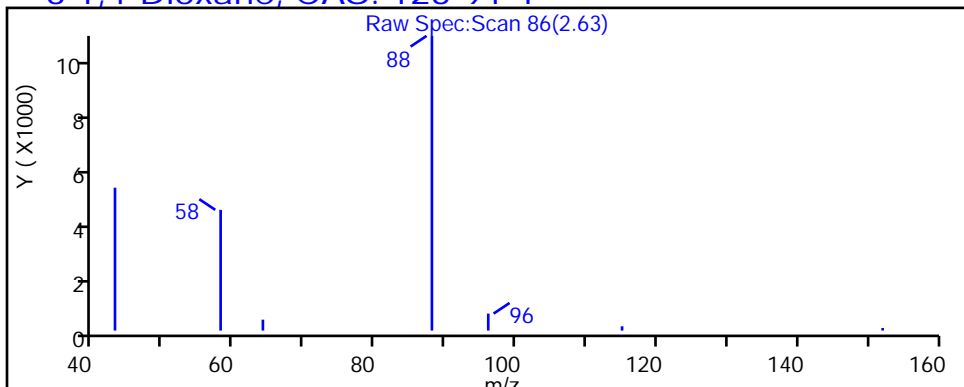
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151430.D

Injection Date: 21-Jul-2019 18:40:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-6-A

Lab Sample ID: 480-156213-6

Client ID: 356023-MW11B

Operator ID: bs

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

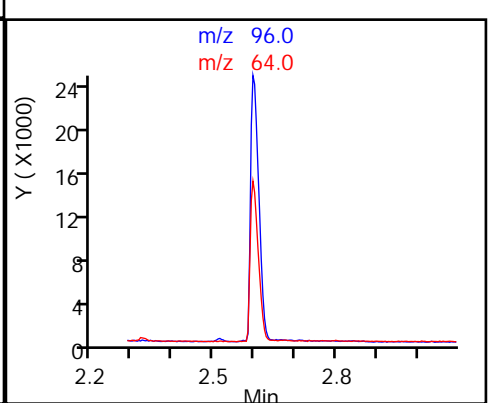
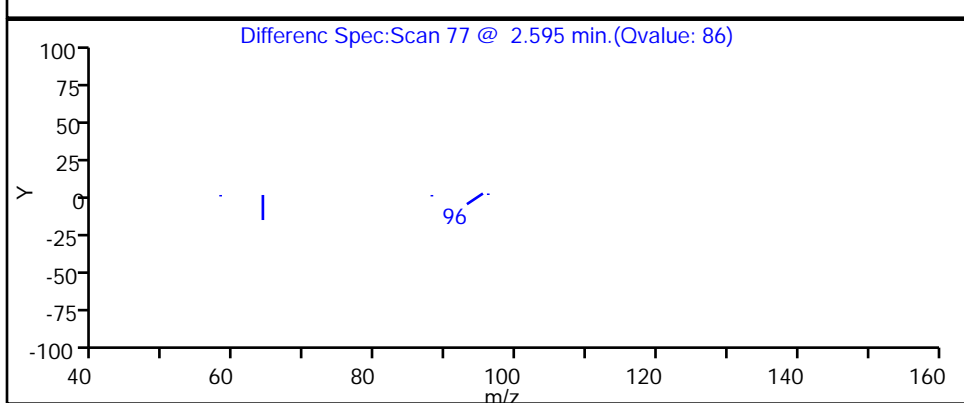
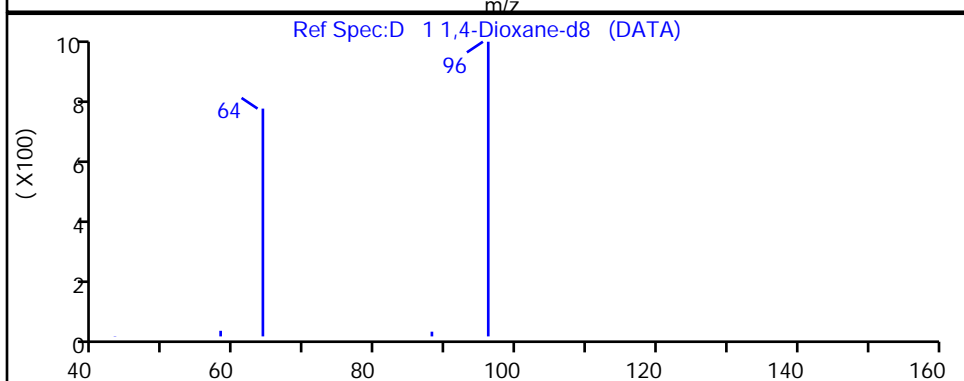
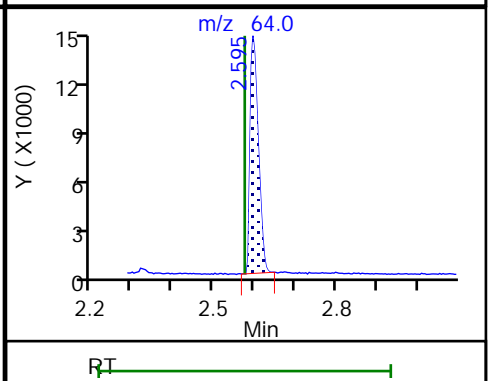
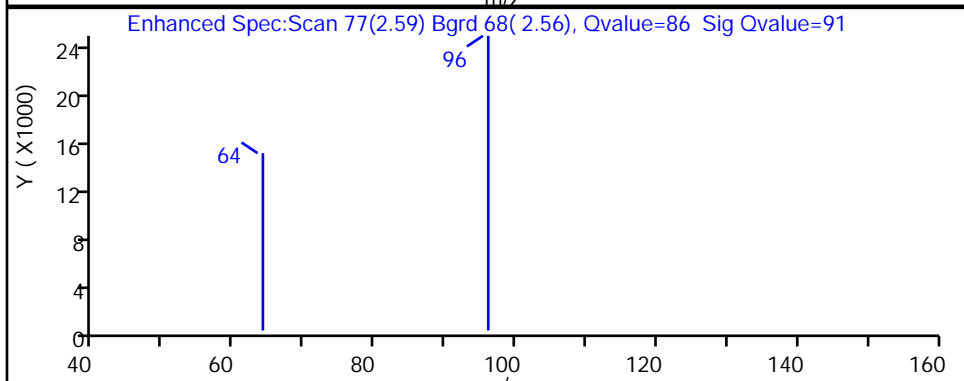
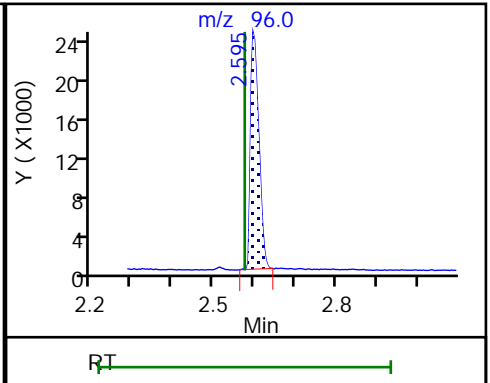
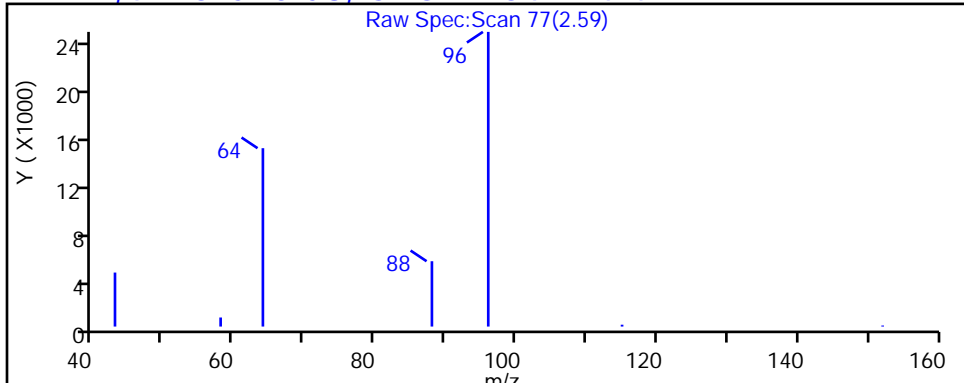
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



Euofins TestAmerica, Buffalo

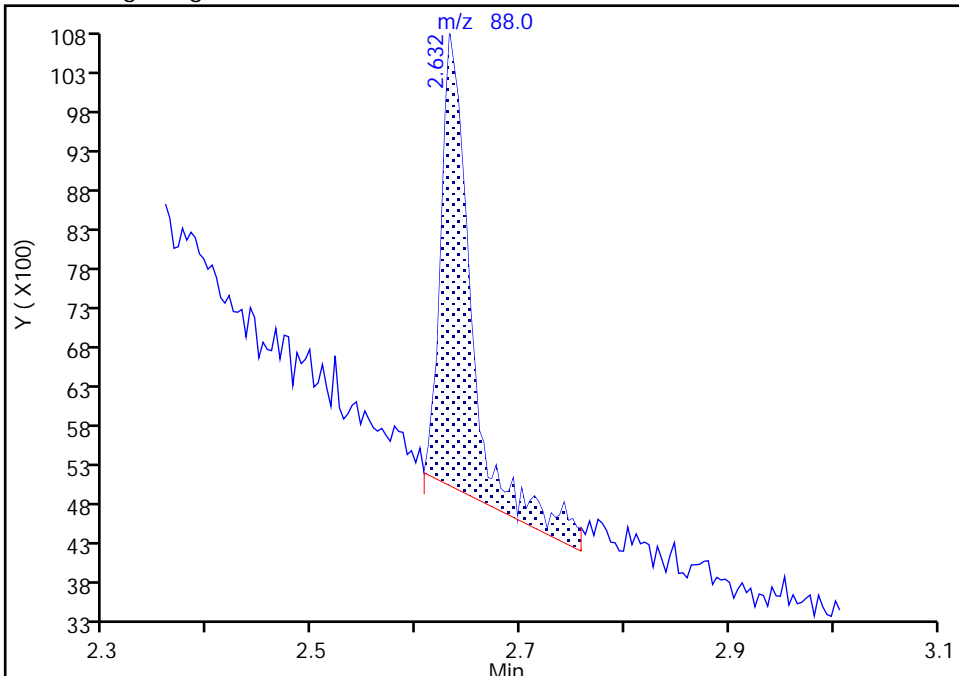
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Injection Date: 21-Jul-2019 18:40:30 Instrument ID: HP5973U  
Lims ID: 480-156213-B-6-A Lab Sample ID: 480-156213-6  
Client ID: 356023-MW11B  
Operator ID: bs ALS Bottle#: 13 Worklist Smp#: 13  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

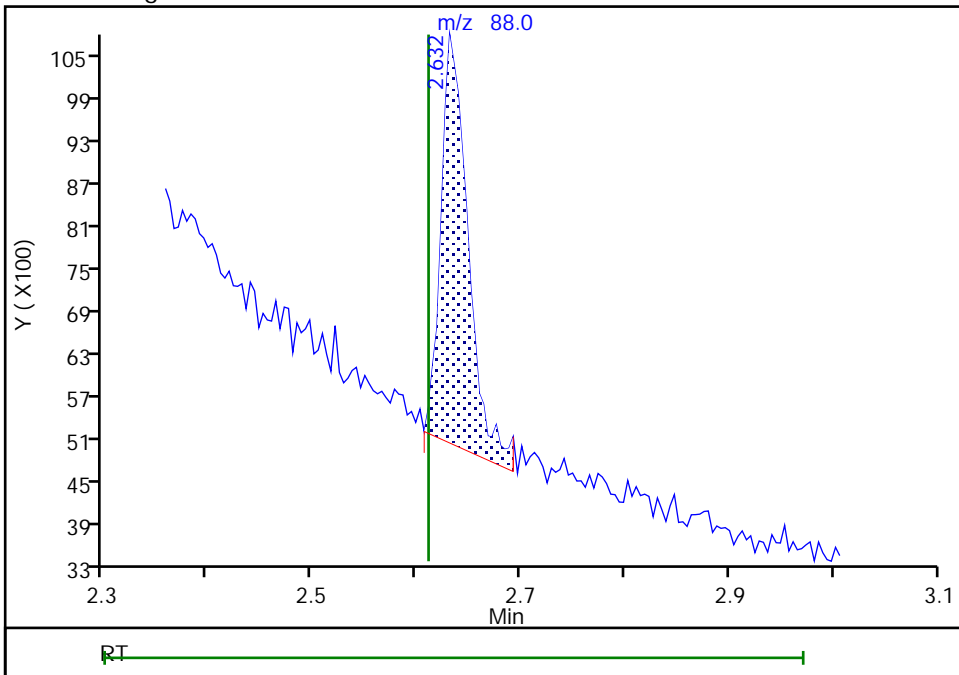
RT: 2.63  
Area: 11628  
Amount: 0.695820  
Amount Units: ng/ul

Processing Integration Results



RT: 2.63  
Area: 10456  
Amount: 0.625688  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 22-Jul-2019 13:36:59  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11C Lab Sample ID: 480-156213-7  
 Matrix: Water Lab File ID: U33151398.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/10/2019 15:23  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/19/2019 01:24  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482665 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.8	E	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151398.D  
 Lims ID: 480-156213-A-7-A  
 Client ID: 356023-MW11C  
 Sample Type: Client  
 Inject. Date: 19-Jul-2019 01:24:30 ALS Bottle#: 35 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 35  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:45 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:37:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.648	2.574	0.074	89	188568	3.92	39.2	
3 1,4-Dioxane	88	2.689	2.615	0.074	85	33953	1.83		E
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	97	416462	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151398.D

Injection Date: 19-Jul-2019 01:24:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-7-A

Lab Sample ID: 480-156213-7

Worklist Smp#: 5

Client ID: 356023-MW11C

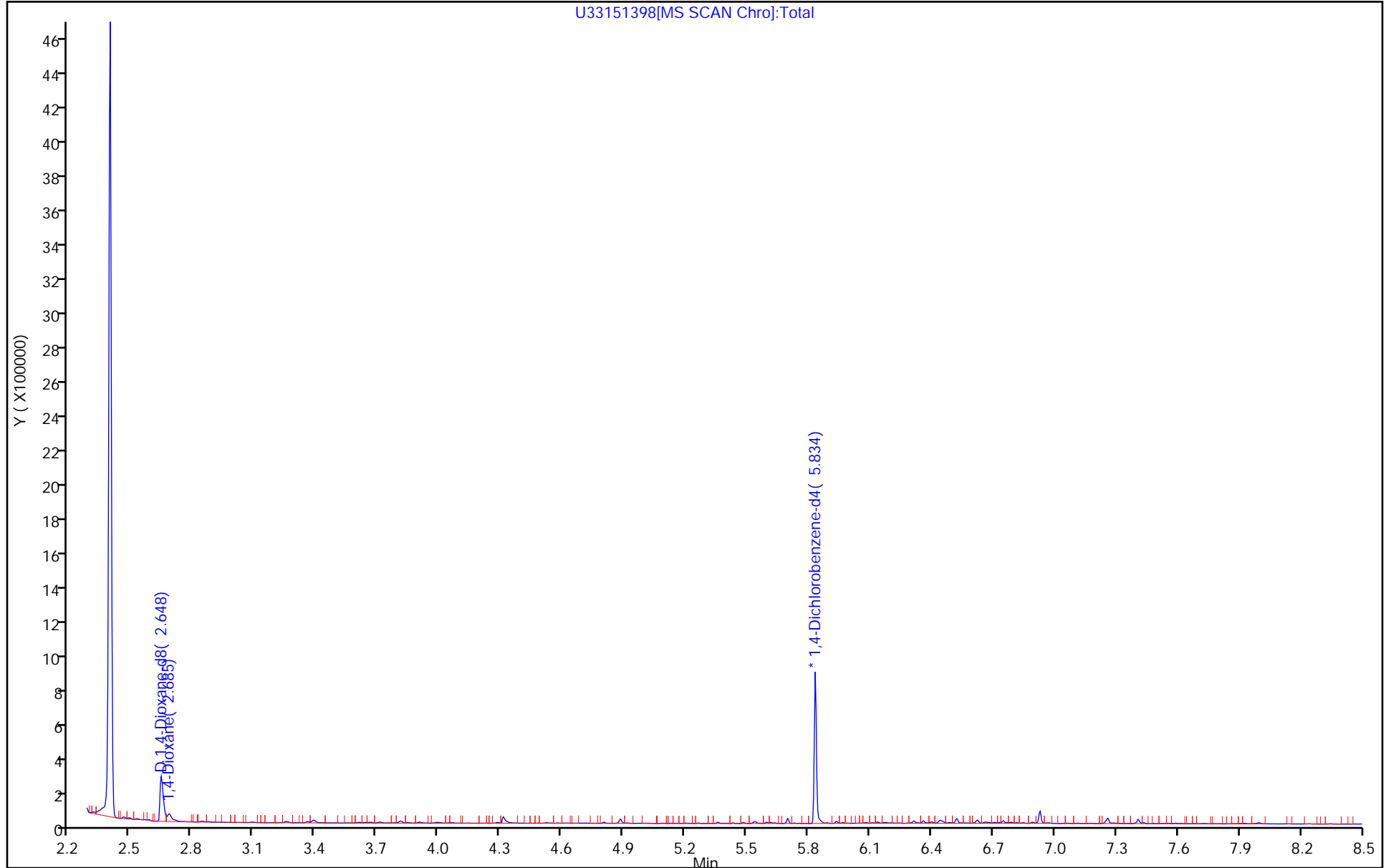
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 35

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151398.D

Injection Date: 19-Jul-2019 01:24:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-7-A

Lab Sample ID: 480-156213-7

Client ID: 356023-MW11C

Operator ID: bs

ALS Bottle#: 35 Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

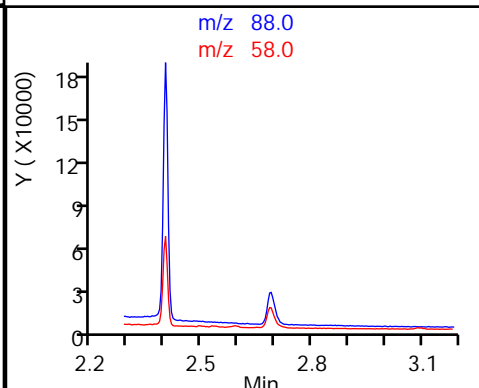
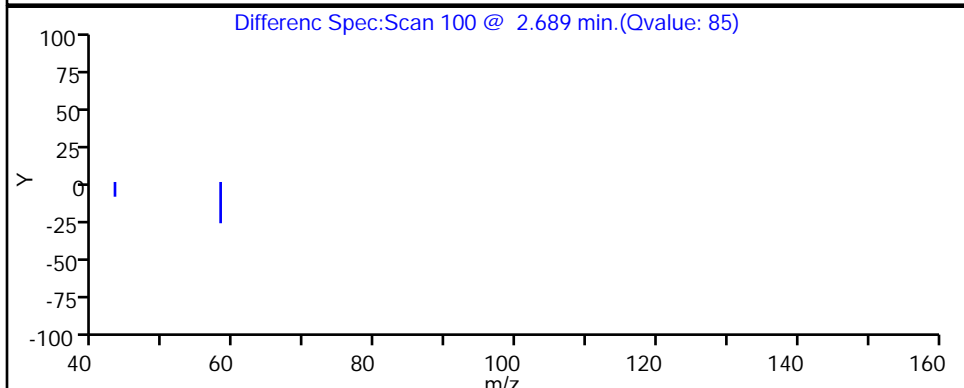
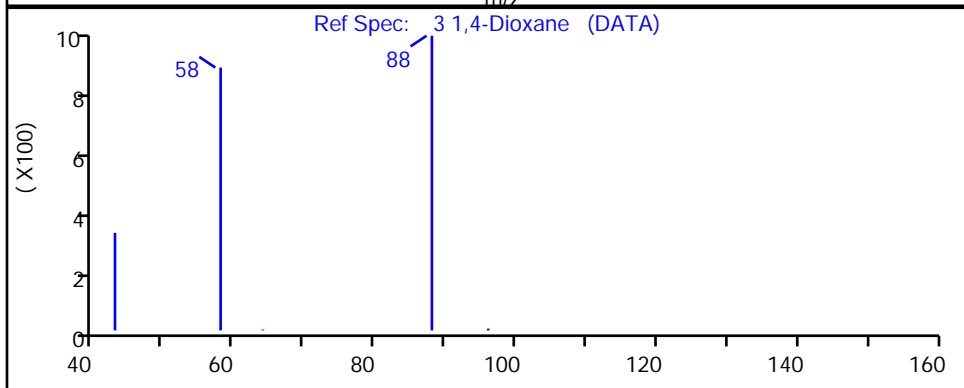
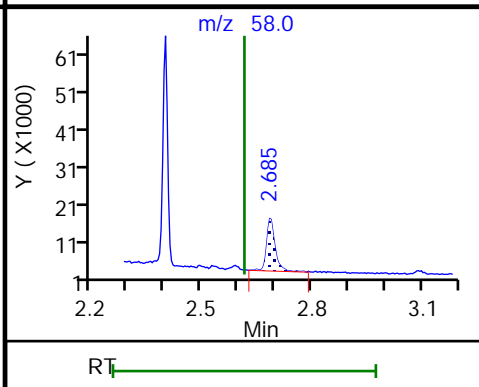
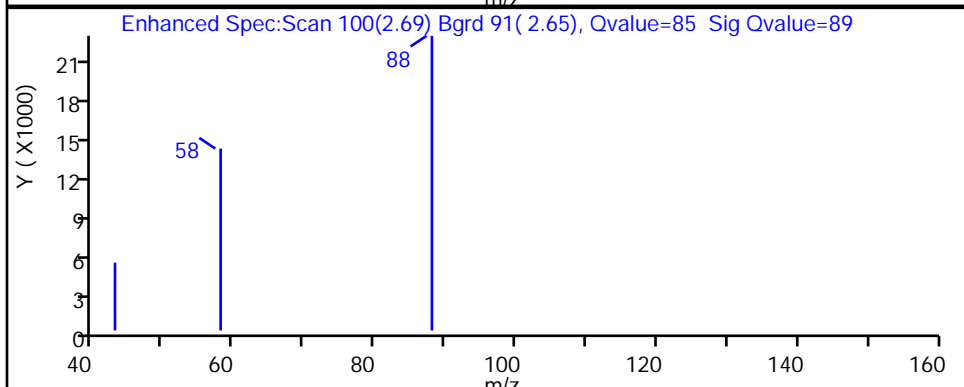
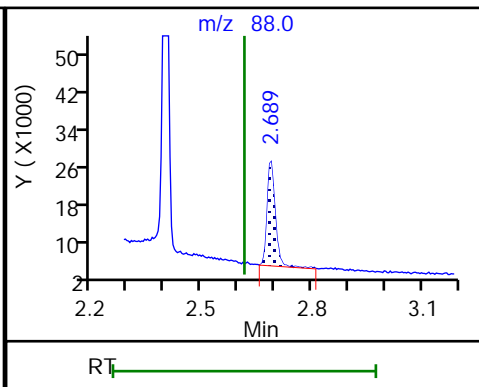
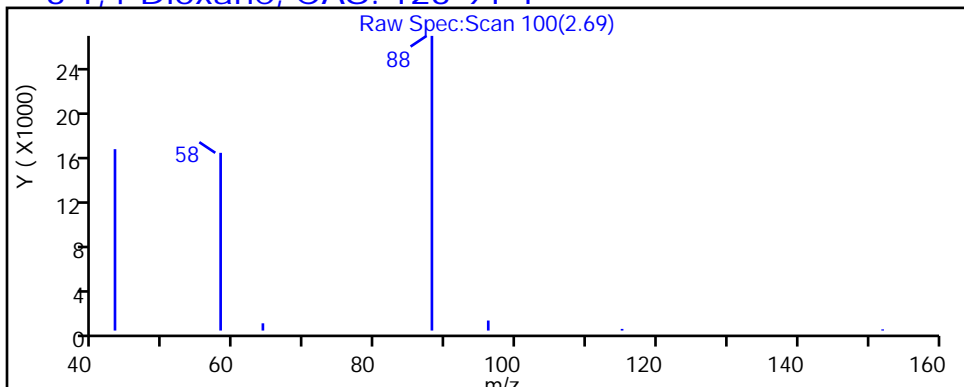
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151398.D

Injection Date: 19-Jul-2019 01:24:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-7-A

Lab Sample ID: 480-156213-7

Client ID: 356023-MW11C

Operator ID: bs

ALS Bottle#: 35 Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

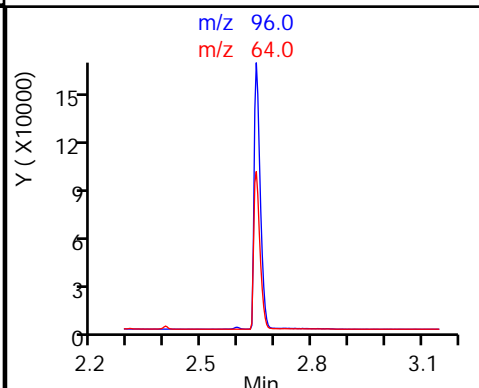
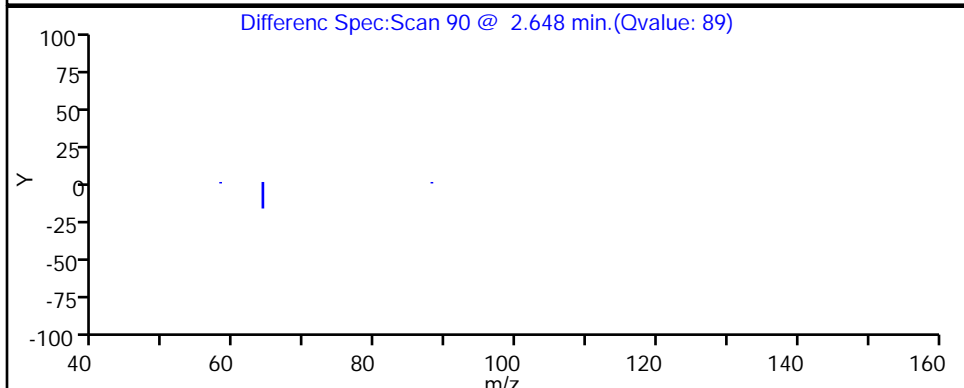
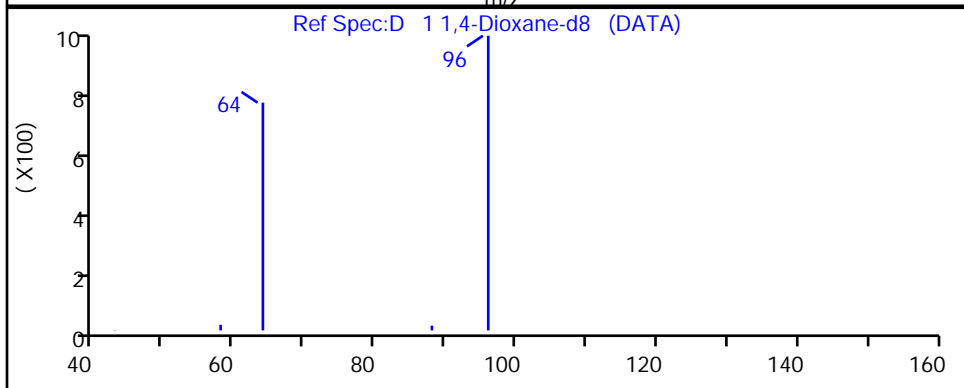
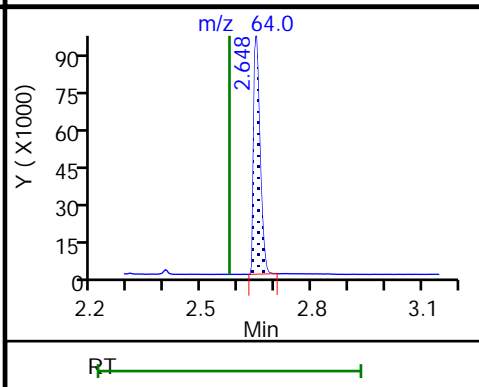
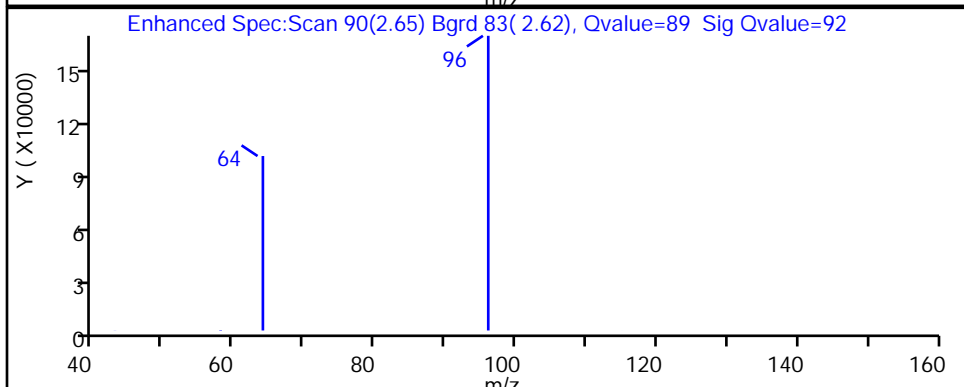
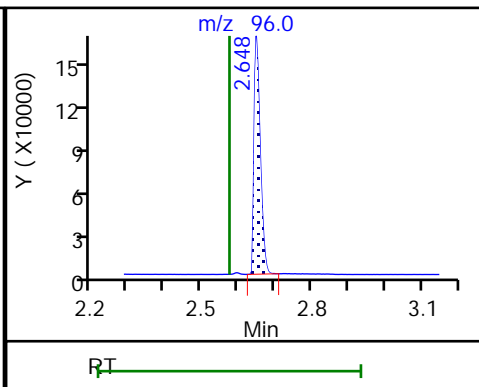
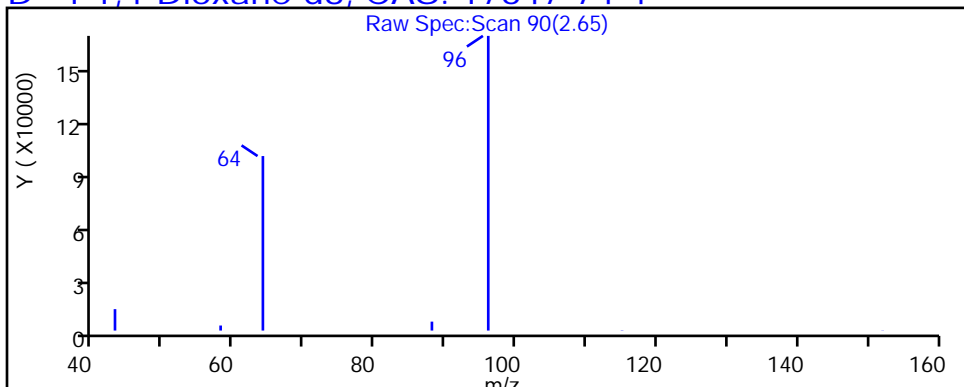
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4





FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1801 Lab Sample ID: 480-156213-8  
 Matrix: Water Lab File ID: U33151399.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 11:10  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/19/2019 01:48  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482665 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.0		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	45		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151399.D  
 Lims ID: 480-156213-B-8-A  
 Client ID: 356023-MW1801  
 Sample Type: Client  
 Inject. Date: 19-Jul-2019 01:48:30 ALS Bottle#: 36 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 36  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:45 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:37:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.660	2.574	0.086	89	225575	4.50	45.0	
3 1,4-Dioxane	88	2.701	2.615	0.086	84	22149	1.00		
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	98	434399	4.00		

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151399.D

Injection Date: 19-Jul-2019 01:48:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-8-A

Lab Sample ID: 480-156213-8

Worklist Smp#: 6

Client ID: 356023-MW1801

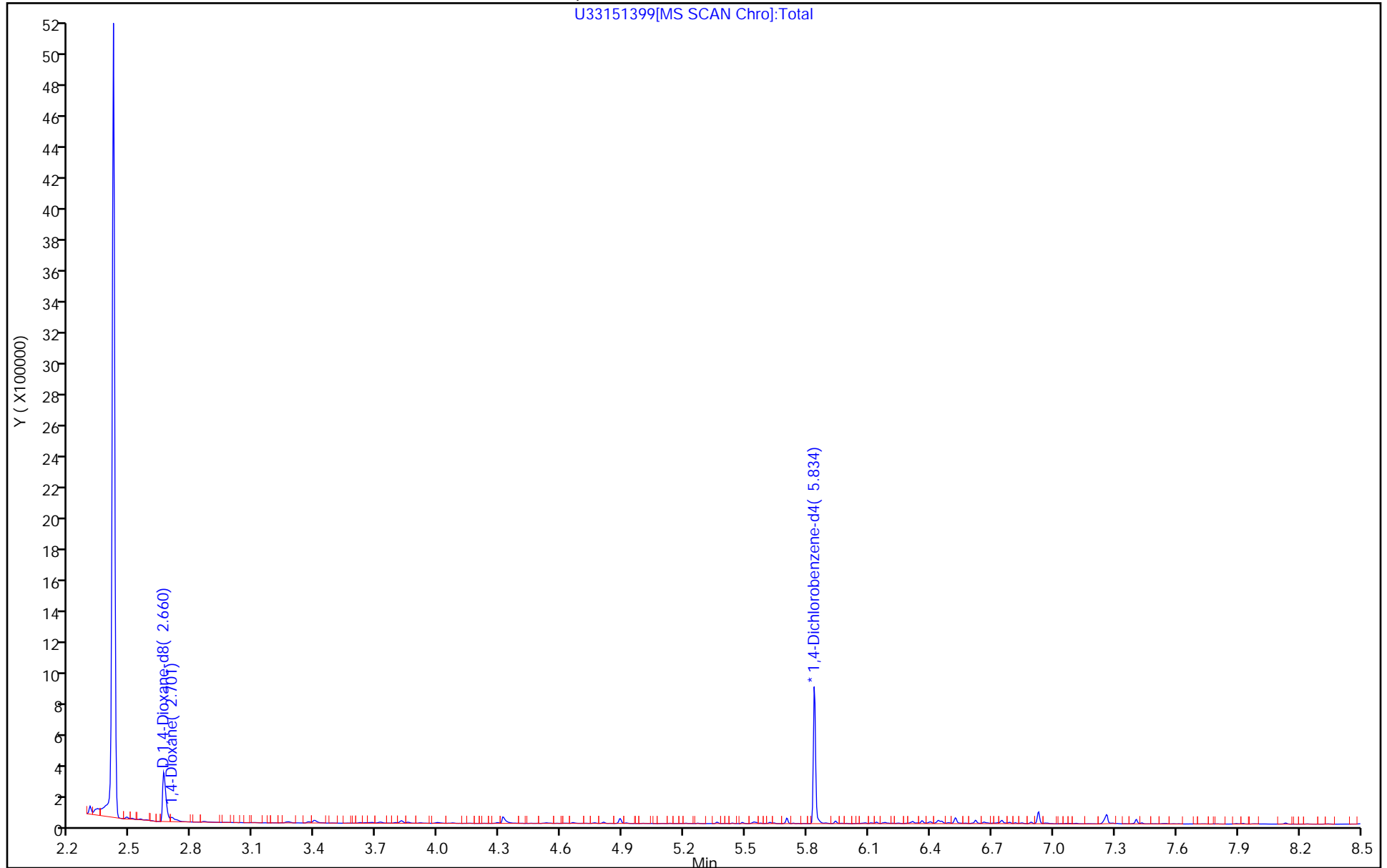
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 36

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151399.D

Injection Date: 19-Jul-2019 01:48:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-8-A

Lab Sample ID: 480-156213-8

Client ID: 356023-MW1801

Operator ID: bs

ALS Bottle#: 36

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

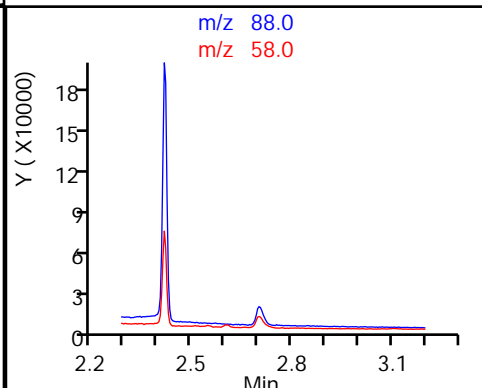
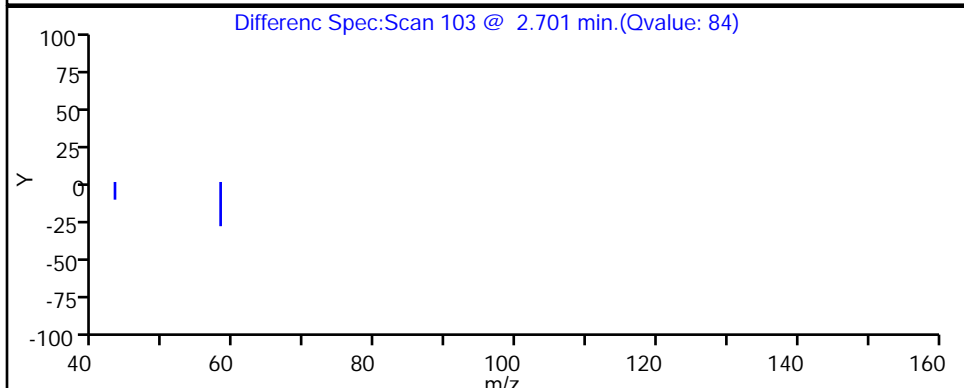
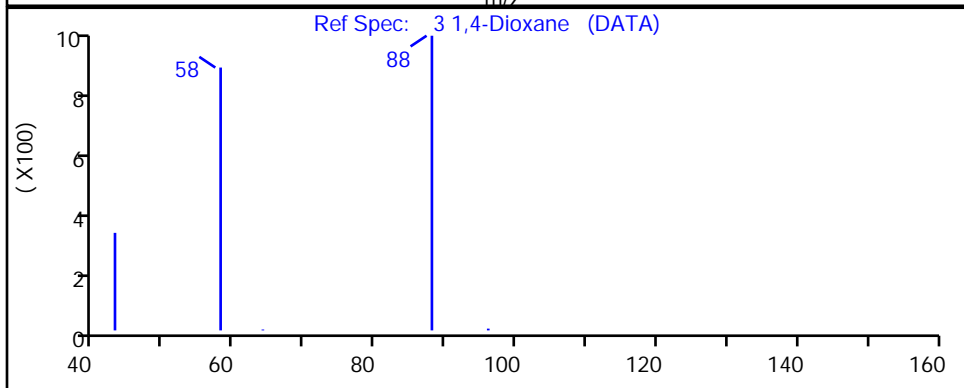
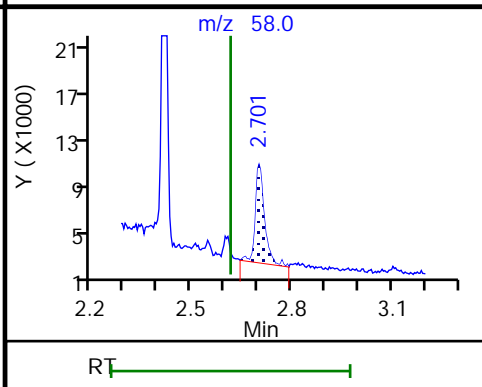
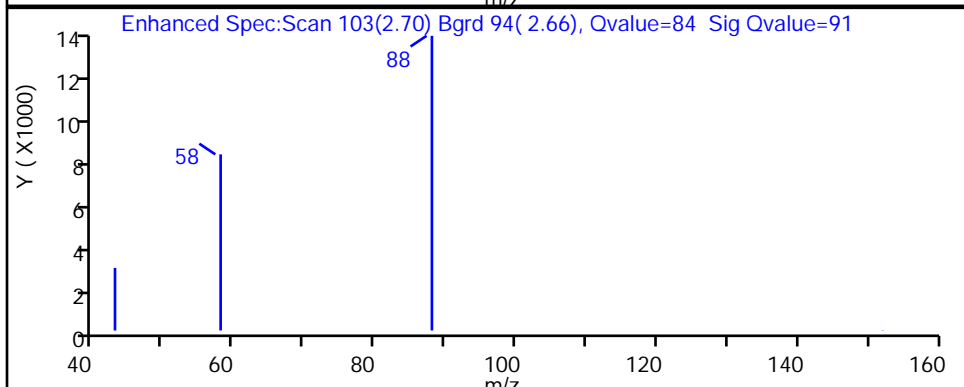
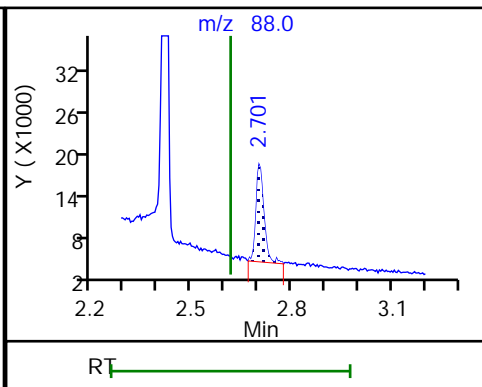
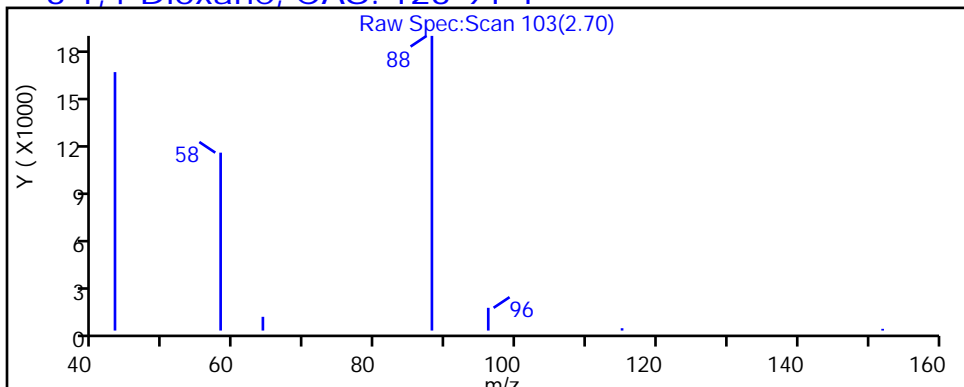
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

### 3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151399.D

Injection Date: 19-Jul-2019 01:48:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-8-A

Lab Sample ID: 480-156213-8

Client ID: 356023-MW1801

Operator ID: bs

ALS Bottle#: 36

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

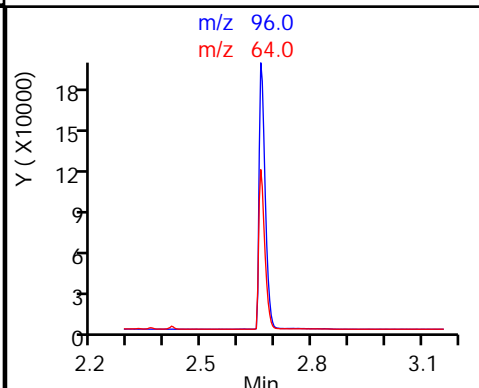
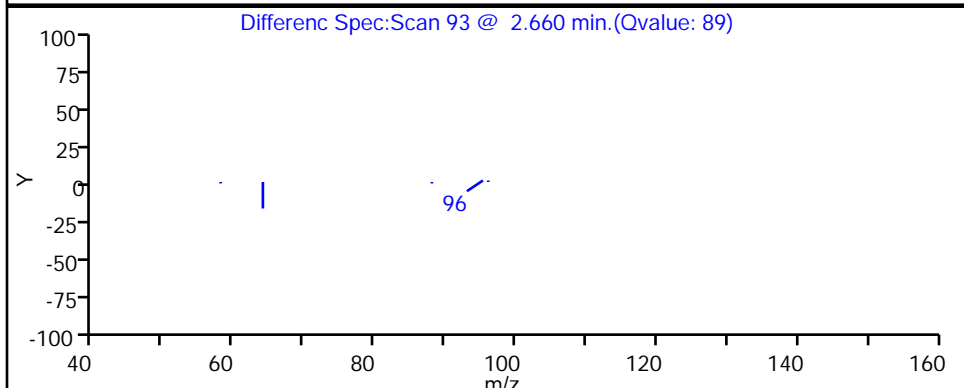
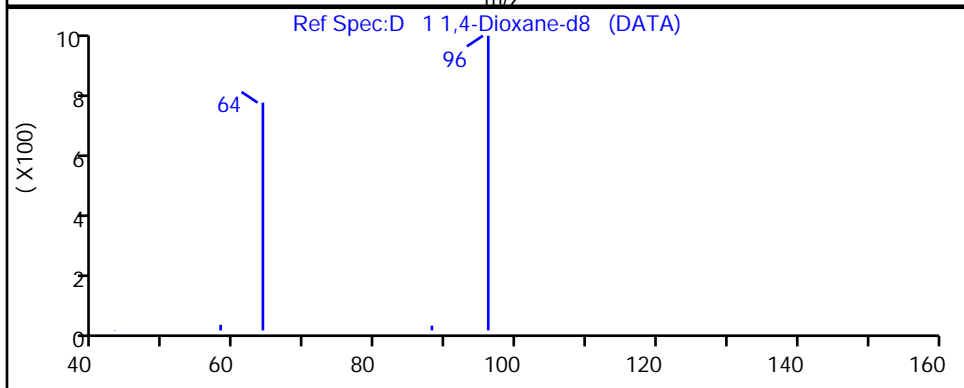
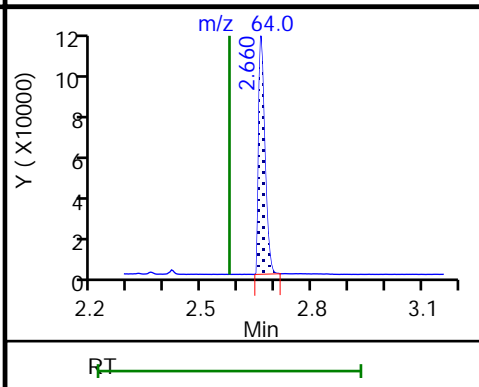
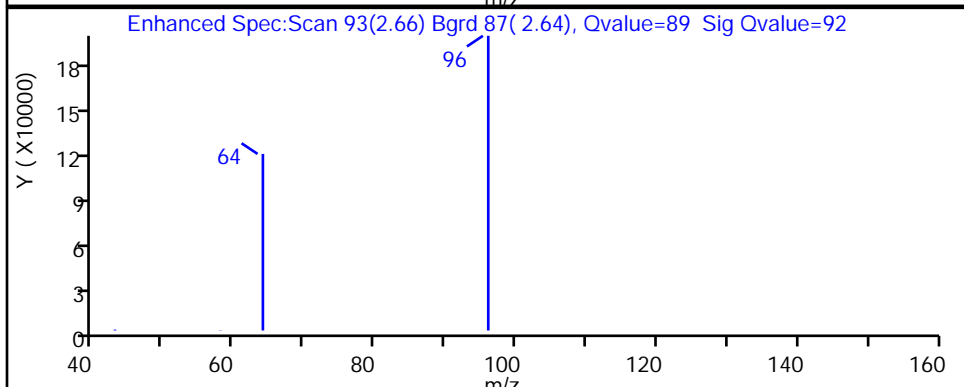
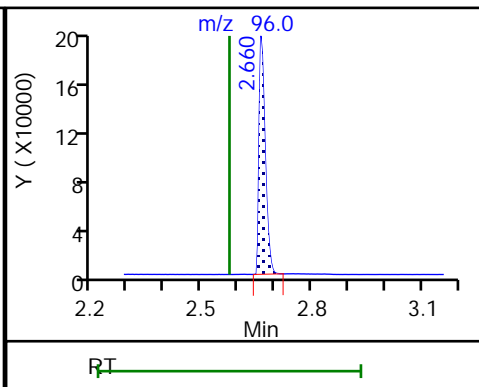
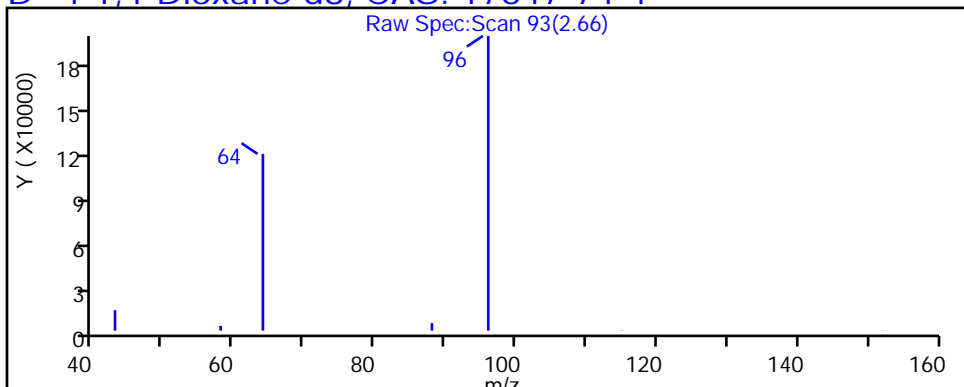
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1802 Lab Sample ID: 480-156213-9  
 Matrix: Water Lab File ID: U33151400.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 11:20  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/19/2019 02:11  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482665 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.3	E	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151400.D  
 Lims ID: 480-156213-A-9-A  
 Client ID: 356023-MW1802  
 Sample Type: Client  
 Inject. Date: 19-Jul-2019 02:11:30 ALS Bottle#: 37 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 37  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:45 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:37:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.652	2.574	0.078	85	187477	3.74	37.4	
3 1,4-Dioxane	88	2.688	2.615	0.073	86	23637	1.28		E
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	98	433993	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151400.D

Injection Date: 19-Jul-2019 02:11:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-9-A

Lab Sample ID: 480-156213-9

Worklist Smp#: 7

Client ID: 356023-MW1802

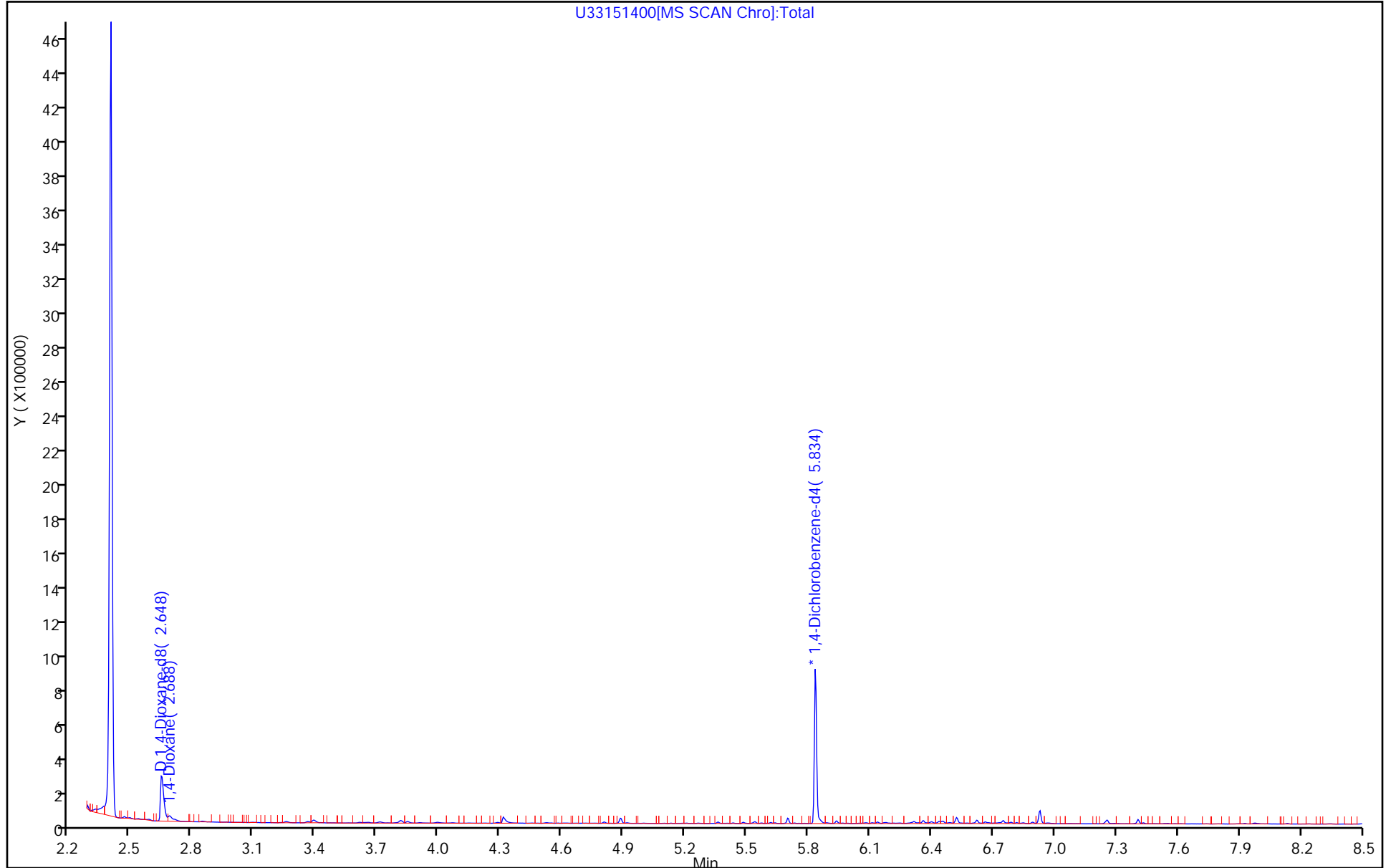
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 37

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL





Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151400.D

Injection Date: 19-Jul-2019 02:11:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-9-A

Lab Sample ID: 480-156213-9

Client ID: 356023-MW1802

Operator ID: bs

ALS Bottle#: 37

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

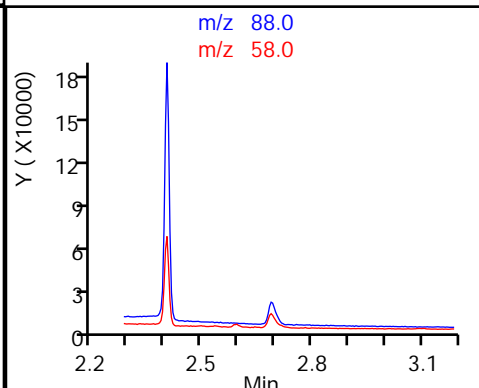
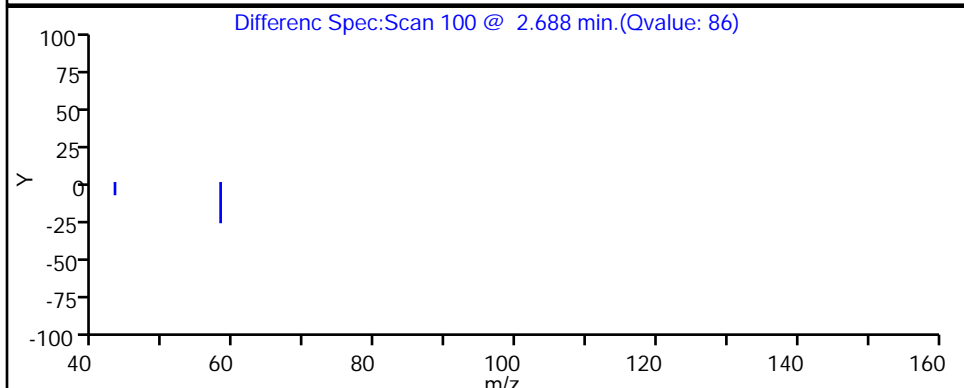
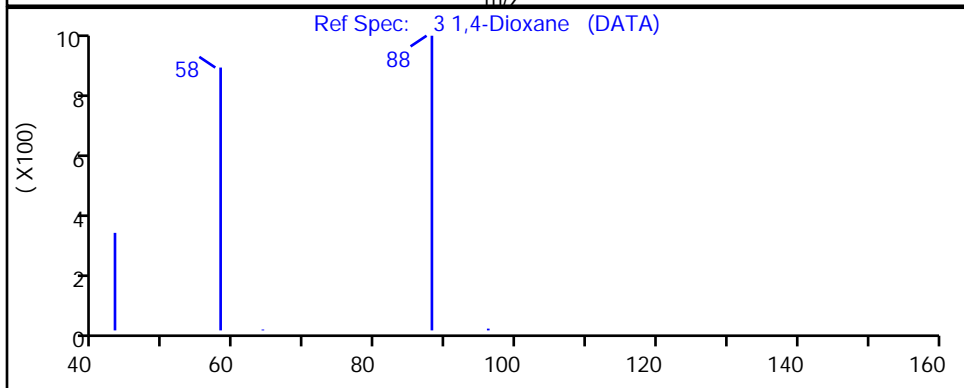
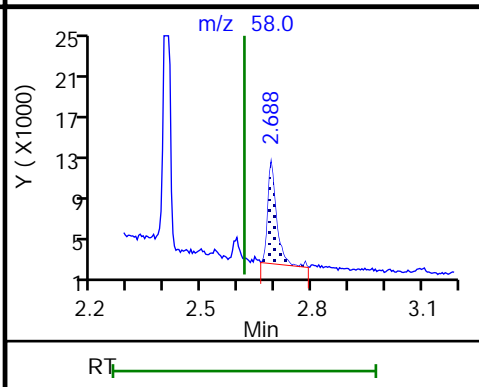
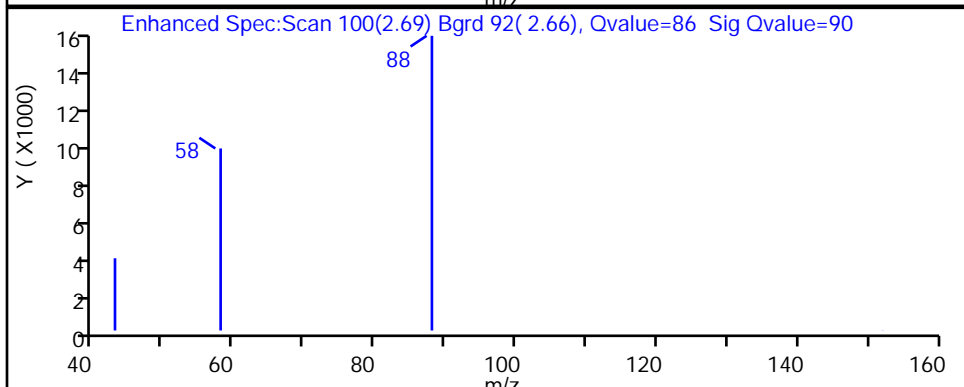
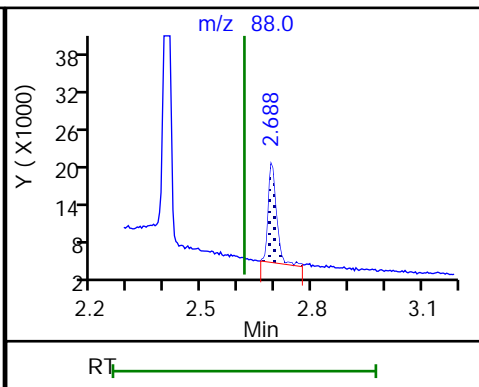
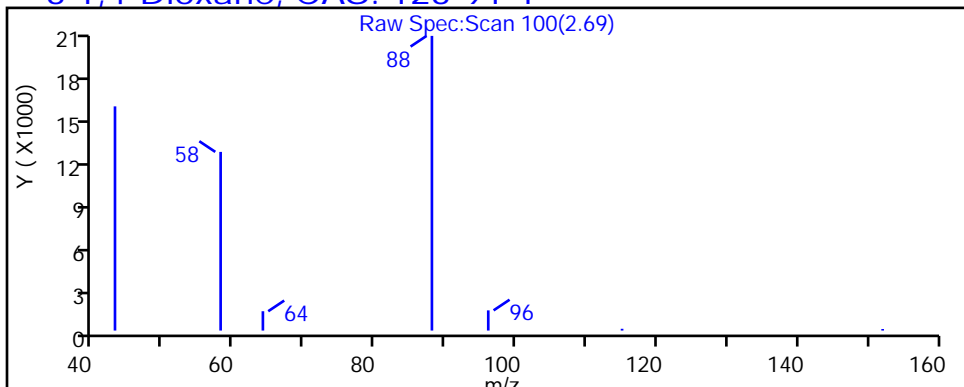
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151400.D

Injection Date: 19-Jul-2019 02:11:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-9-A

Lab Sample ID: 480-156213-9

Client ID: 356023-MW1802

Operator ID: bs

ALS Bottle#: 37

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

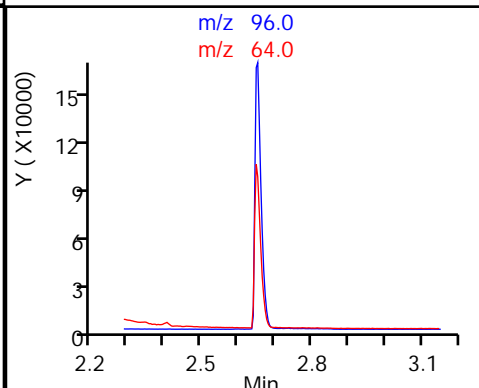
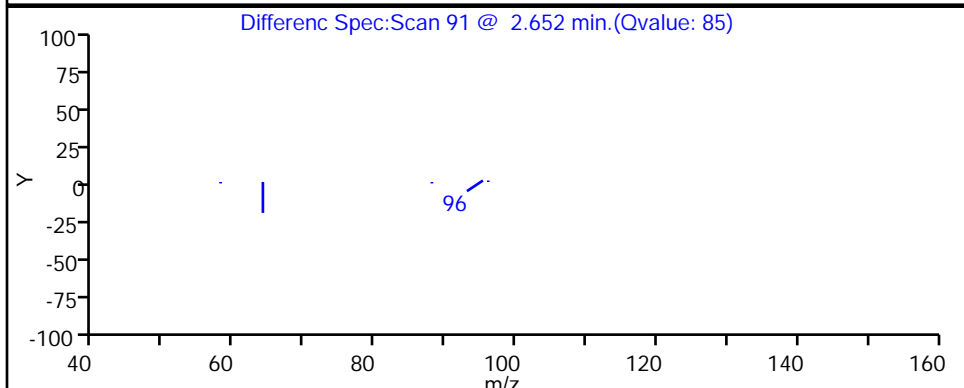
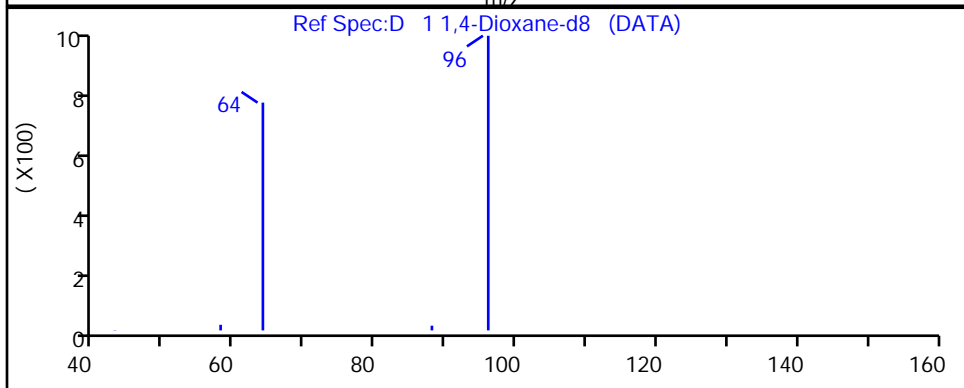
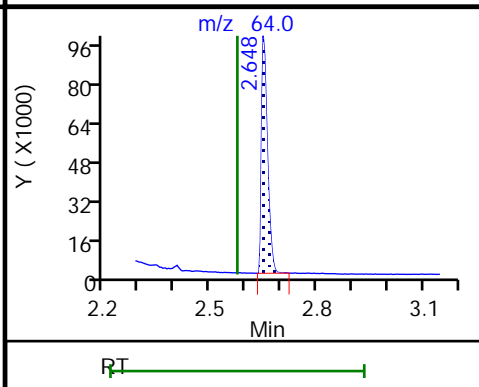
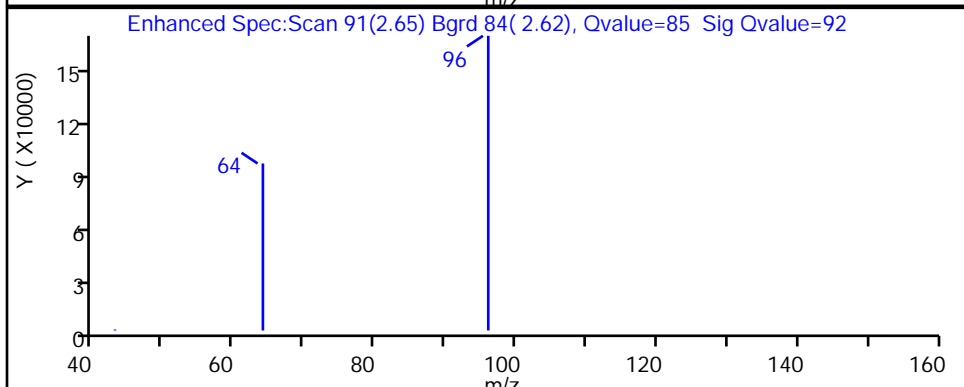
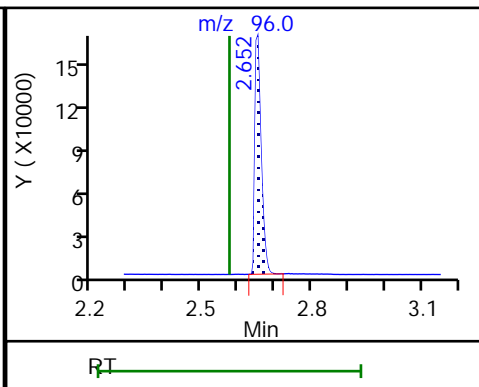
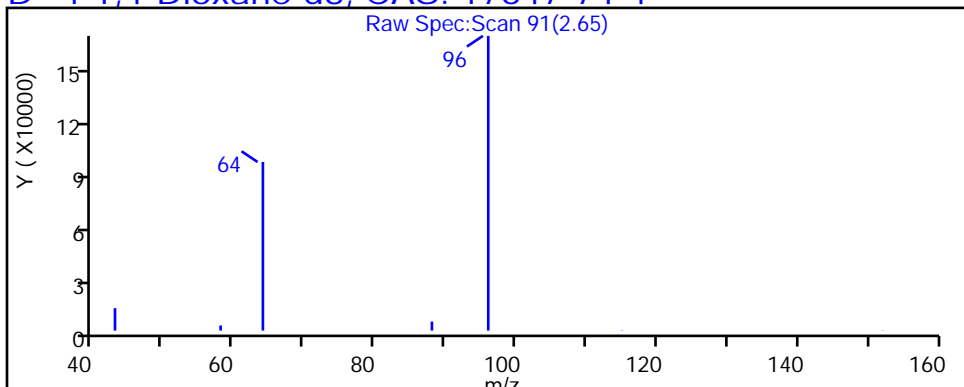
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1803 Lab Sample ID: 480-156213-10  
 Matrix: Water Lab File ID: U33151401.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 11:30  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/19/2019 02:35  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482665 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.4	E	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	39		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151401.D  
 Lims ID: 480-156213-B-10-A  
 Client ID: 356023-MW1803  
 Sample Type: Client  
 Inject. Date: 19-Jul-2019 02:35:30 ALS Bottle#: 38 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 38  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:45 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:37:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.648	2.574	0.074	92	186861	3.90	39.0	
3 1,4-Dioxane	88	2.689	2.615	0.074	86	25361	1.38		E
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	98	415368	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151401.D

Injection Date: 19-Jul-2019 02:35:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-10-A

Lab Sample ID: 480-156213-10

Worklist Smp#: 8

Client ID: 356023-MW1803

Injection Vol: 1.0 ul

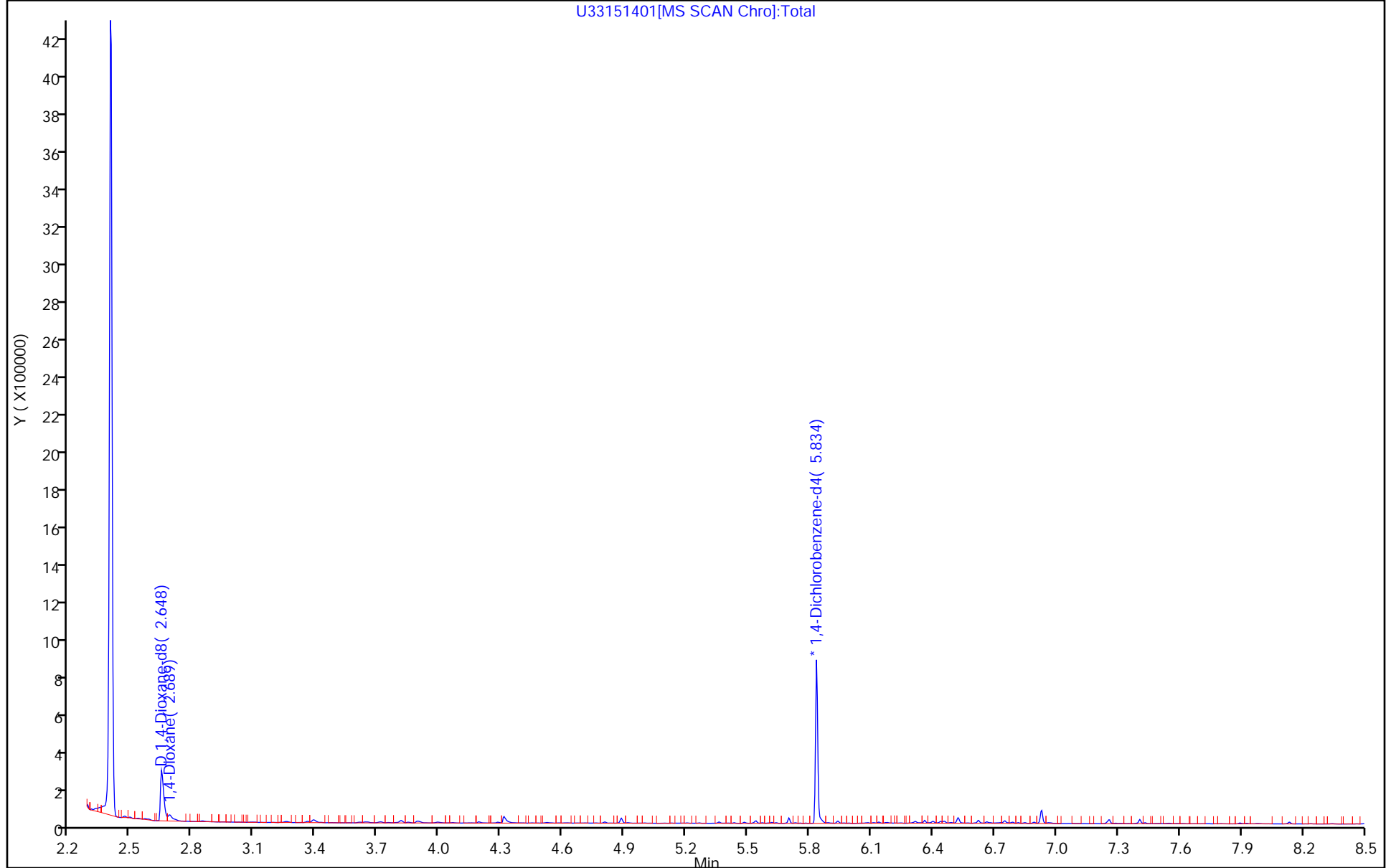
Dil. Factor: 1.0000

ALS Bottle#: 38

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

U33151401[MS SCAN Chrom]:Total



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151401.D

Injection Date: 19-Jul-2019 02:35:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-10-A

Lab Sample ID: 480-156213-10

Client ID: 356023-MW1803

Operator ID: bs

ALS Bottle#: 38

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

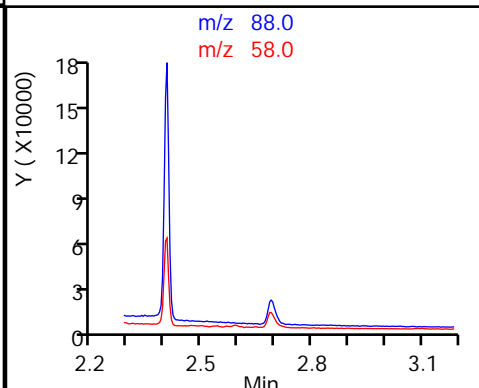
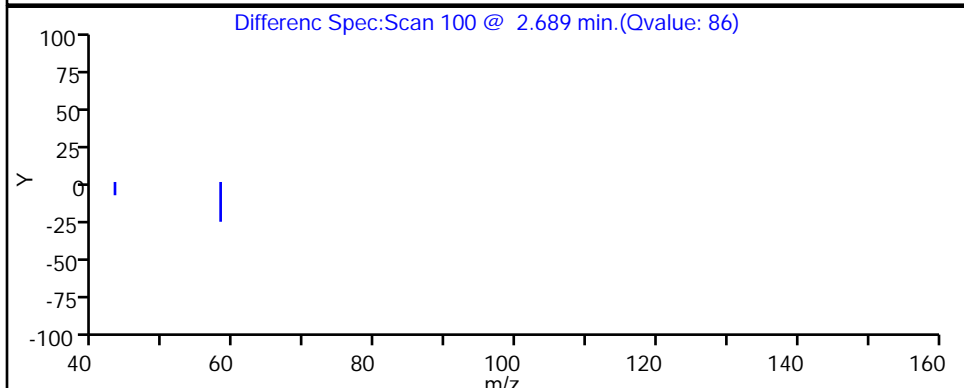
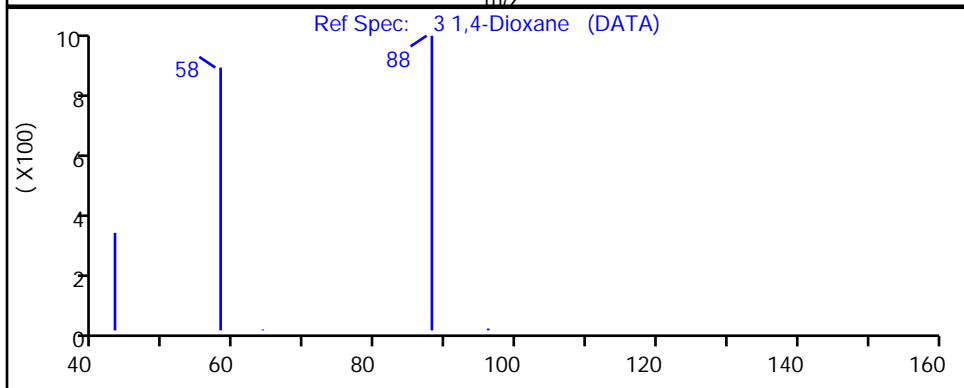
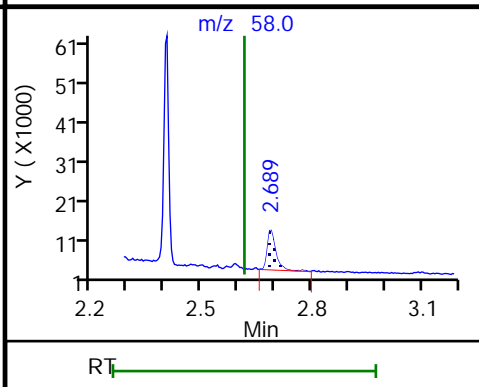
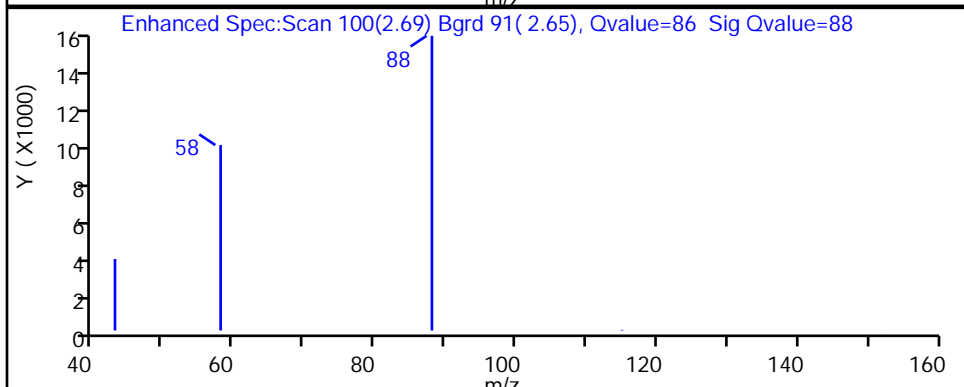
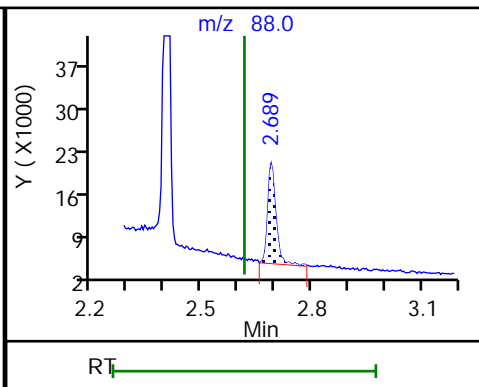
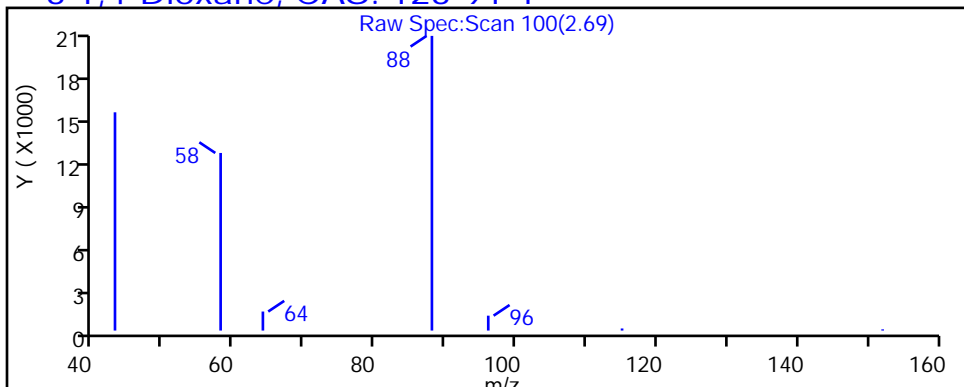
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

### 3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151401.D

Injection Date: 19-Jul-2019 02:35:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-10-A

Lab Sample ID: 480-156213-10

Client ID: 356023-MW1803

Operator ID: bs

ALS Bottle#: 38 Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

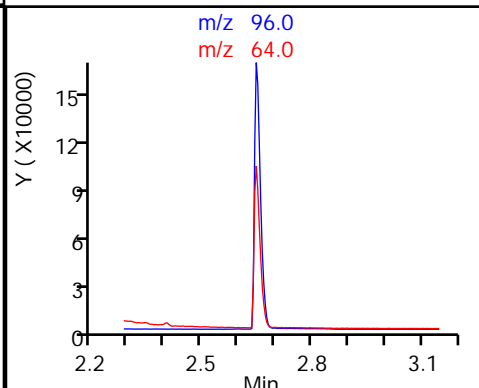
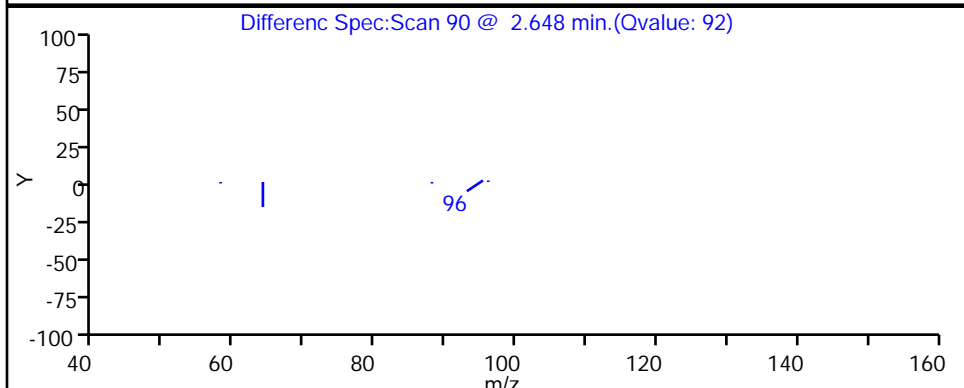
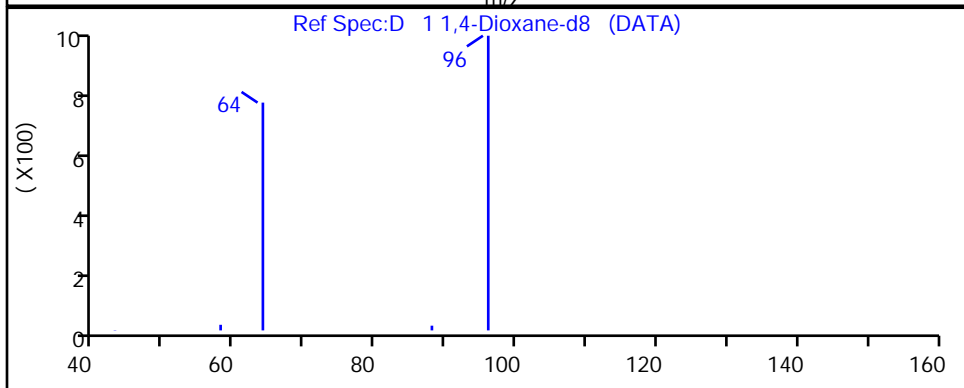
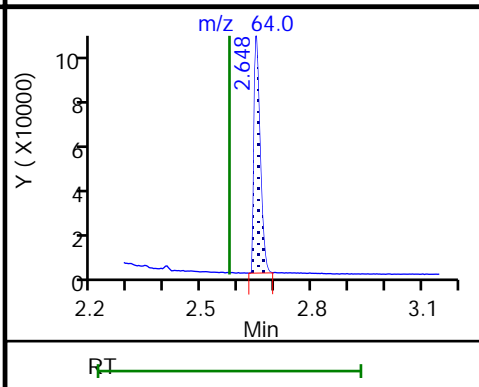
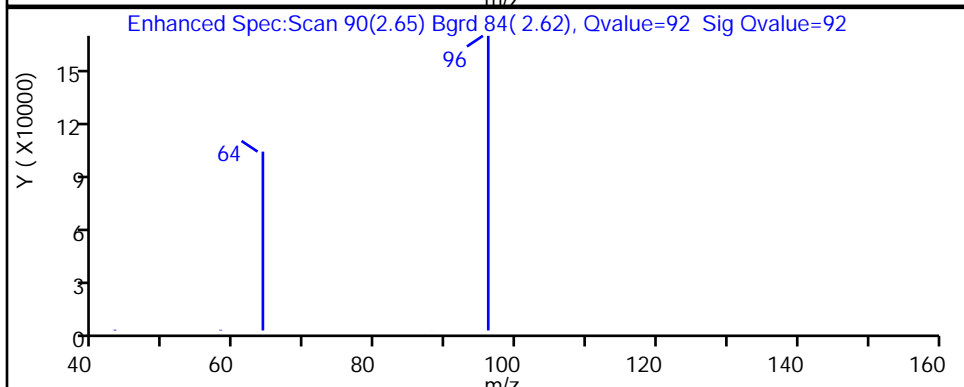
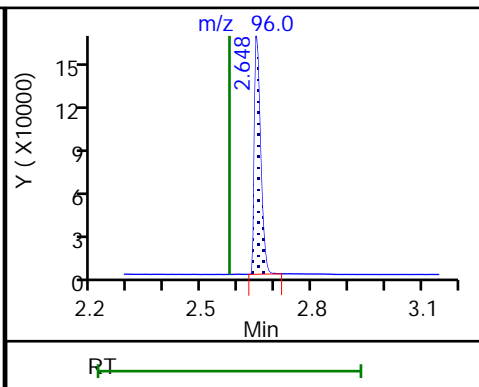
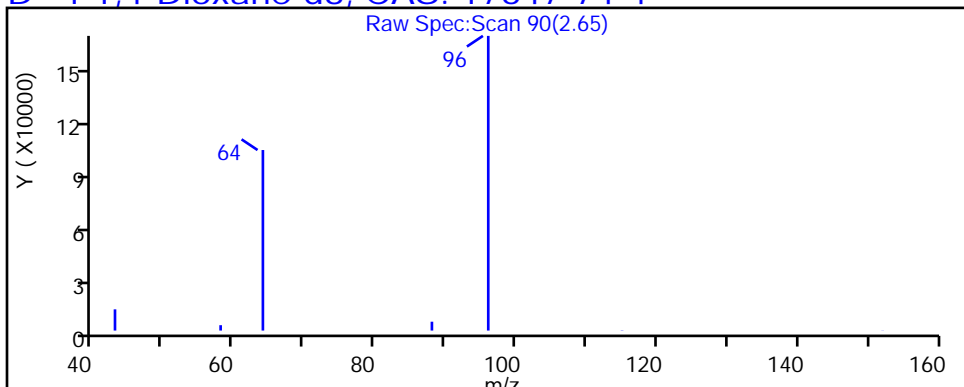
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5B Lab Sample ID: 480-156213-11  
 Matrix: Water Lab File ID: U33151431.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 13:10  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 19:04  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 10  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	10		2.0	1.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	34		15-110



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151431.D  
 Lims ID: 480-156213-B-11-A  
 Client ID: 356023-MW5B  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 19:04:30 ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 1.0 ul Dil. Factor: 10.0000  
 Sample Info: 14  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:37:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.595	2.575	0.020	86	16666	0.3445	34.5	
3 1,4-Dioxane	88	2.628	2.611	0.017	87	16935	1.03		
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	97	419248	4.00		

Reagents:

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151431.D

Injection Date: 21-Jul-2019 19:04:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-11-A

Lab Sample ID: 480-156213-11

Worklist Smp#: 14

Client ID: 356023-MW5B

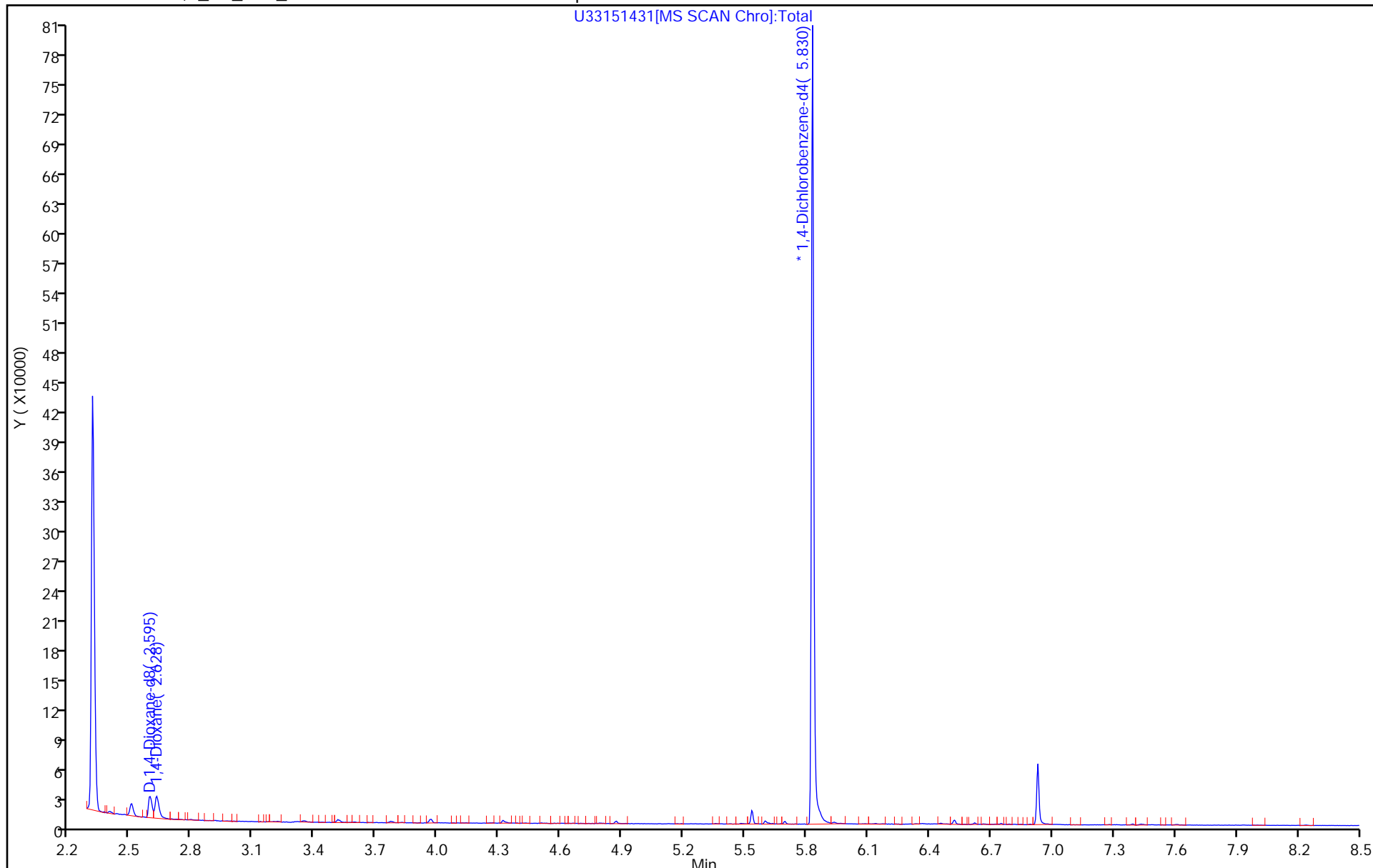
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 14

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151431.D

Injection Date: 21-Jul-2019 19:04:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-11-A

Lab Sample ID: 480-156213-11

Client ID: 356023-MW5B

Operator ID: bs

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

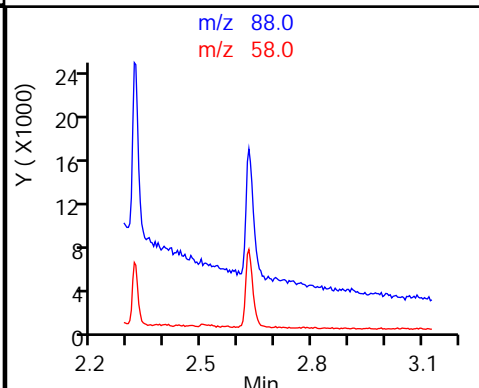
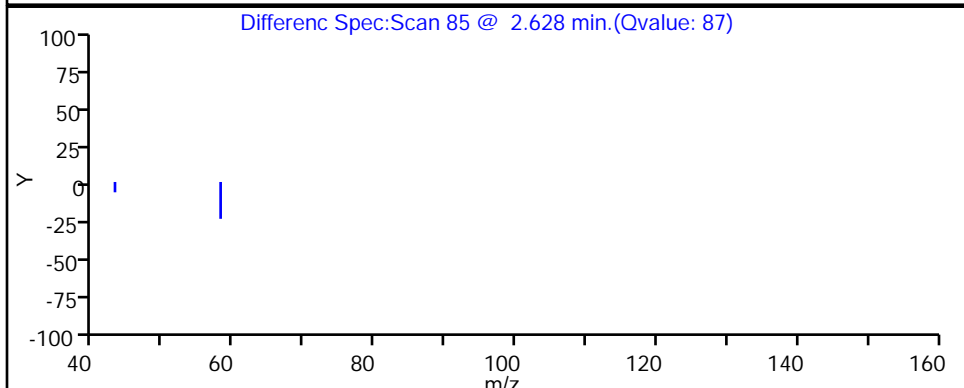
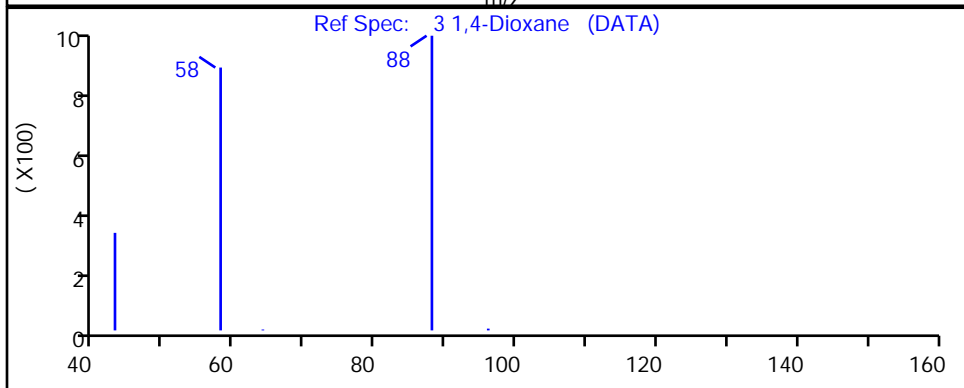
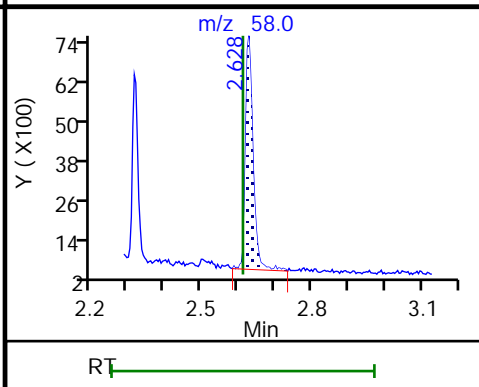
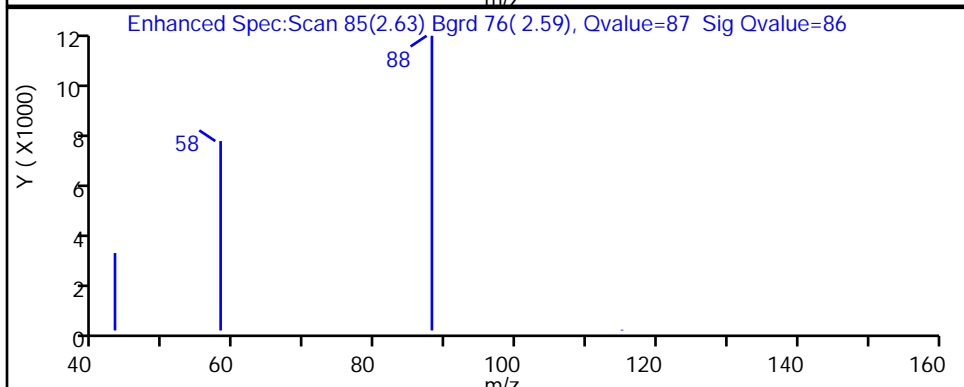
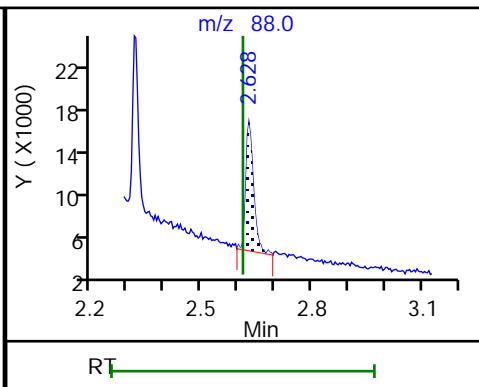
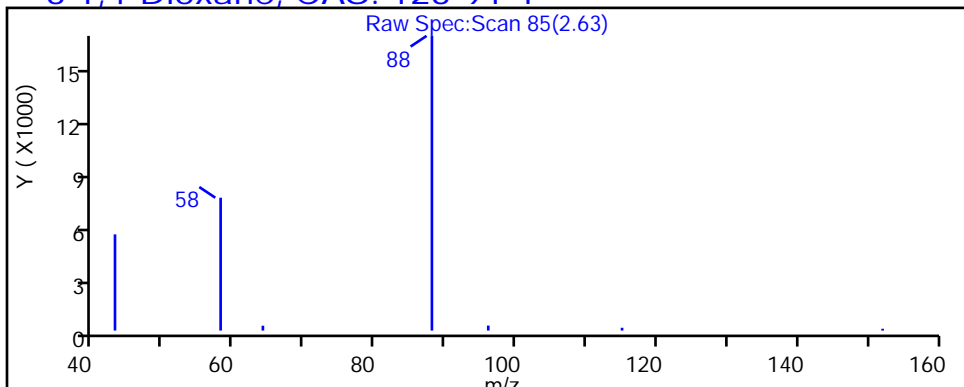
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151431.D

Injection Date: 21-Jul-2019 19:04:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-11-A

Lab Sample ID: 480-156213-11

Client ID: 356023-MW5B

Operator ID: bs

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

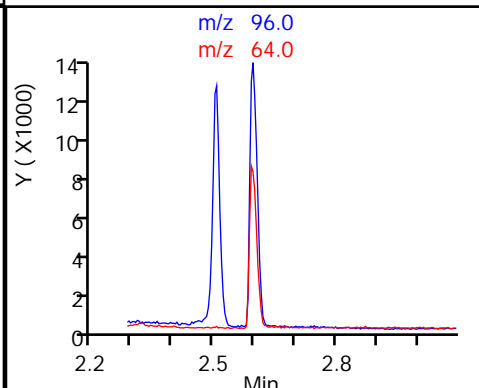
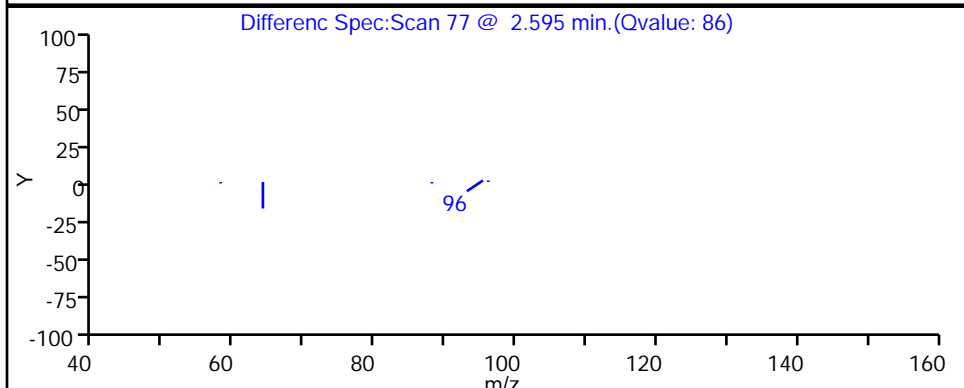
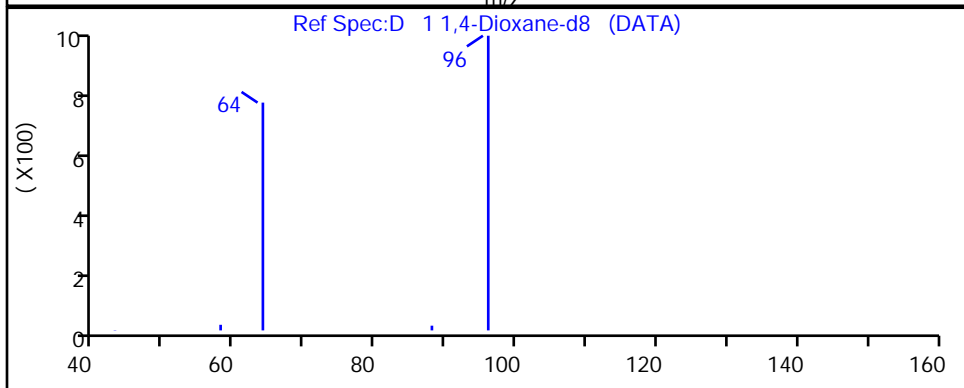
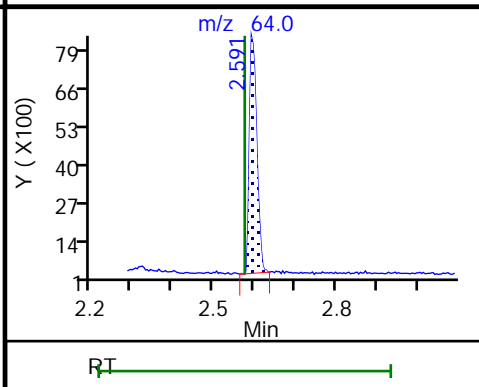
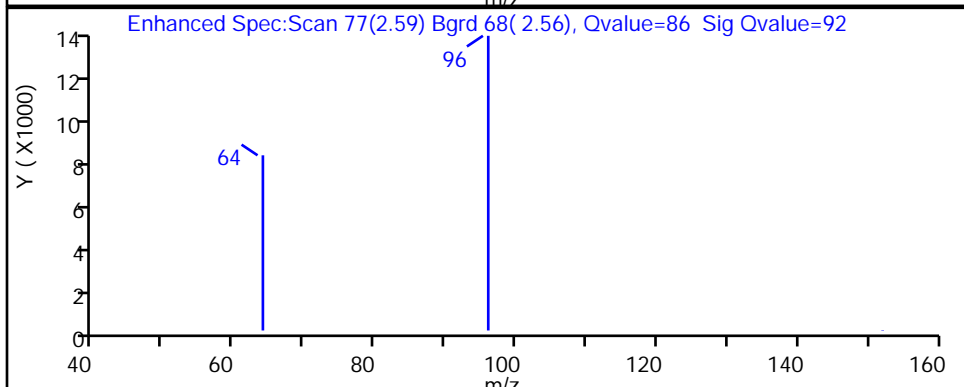
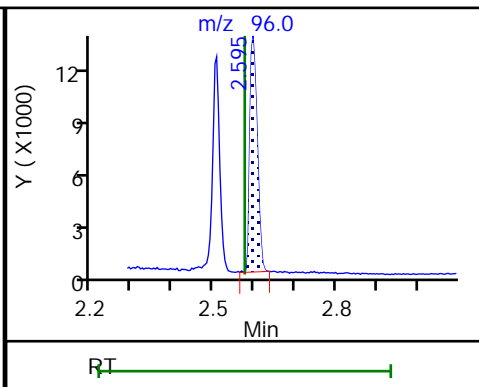
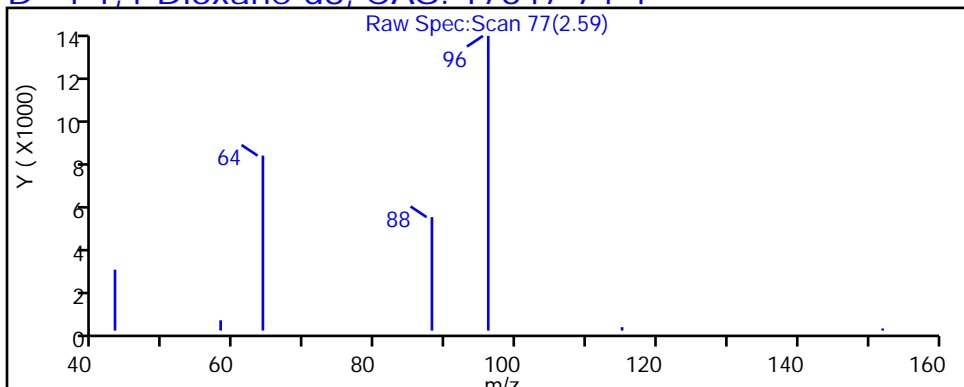
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-ERT4 Lab Sample ID: 480-156213-12  
 Matrix: Water Lab File ID: U33151432.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 11:20  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 19:28  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 10  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	12	E	2.0	1.0

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	28		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151432.D  
 Lims ID: 480-156213-A-12-A  
 Client ID: 356023-ERT4  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 19:28:30 ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 1.0 ul Dil. Factor: 10.0000  
 Sample Info: 15  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:37:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.591	2.575	0.016	93	13390	0.2780	27.8	
3 1,4-Dioxane	88	2.623	2.611	0.012	87	15877	1.21		E
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	96	417438	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151432.D

Injection Date: 21-Jul-2019 19:28:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-12-A

Lab Sample ID: 480-156213-12

Worklist Smp#: 15

Client ID: 356023-ERT4

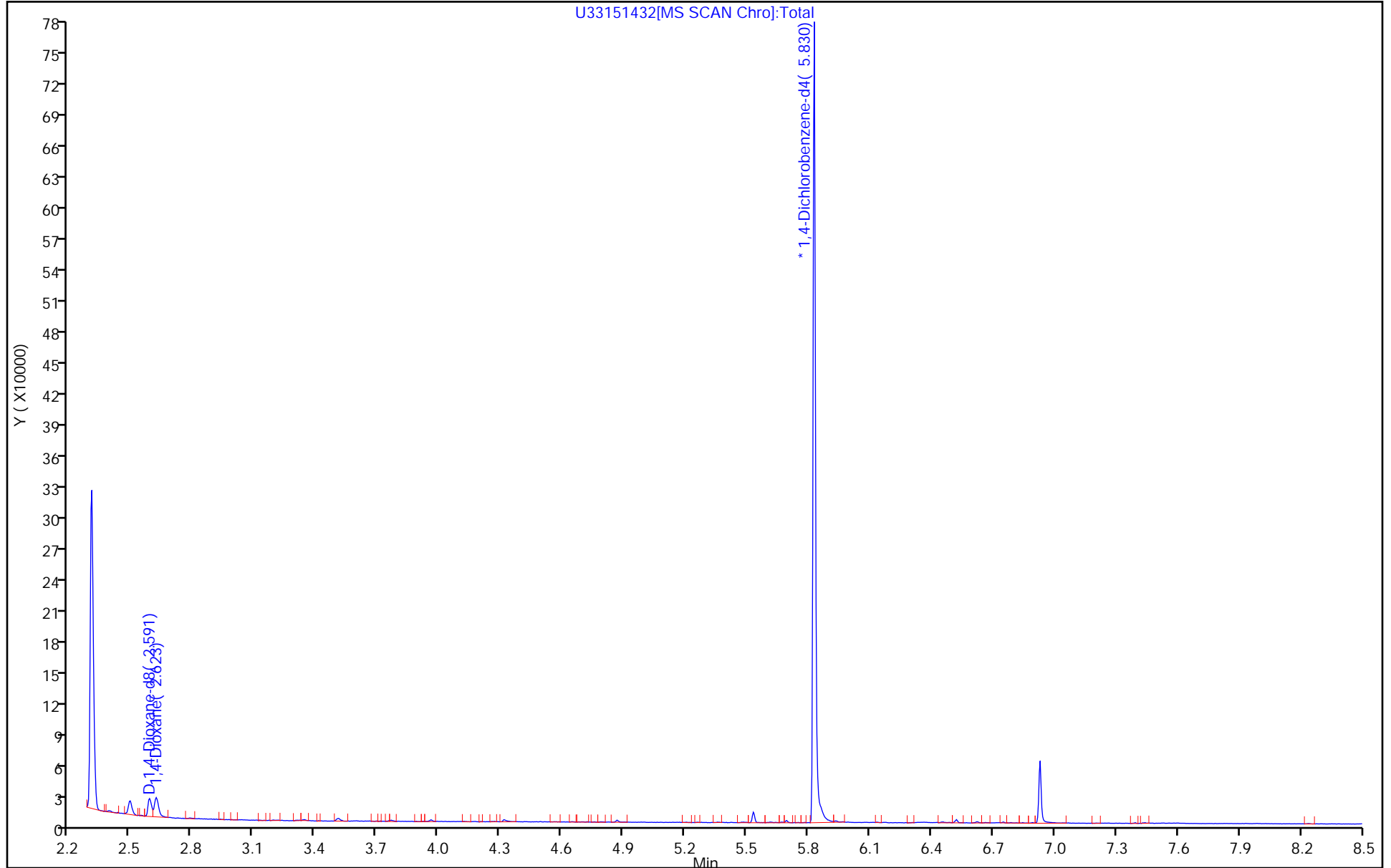
Injection Vol: 1.0 ul

Dil. Factor: 10.0000

ALS Bottle#: 15

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Euofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151432.D

Injection Date: 21-Jul-2019 19:28:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-12-A

Lab Sample ID: 480-156213-12

Client ID: 356023-ERT4

Operator ID: bs

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

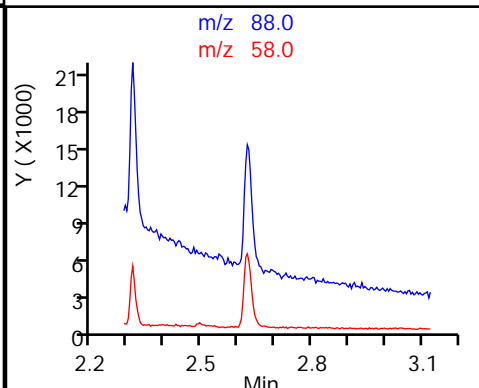
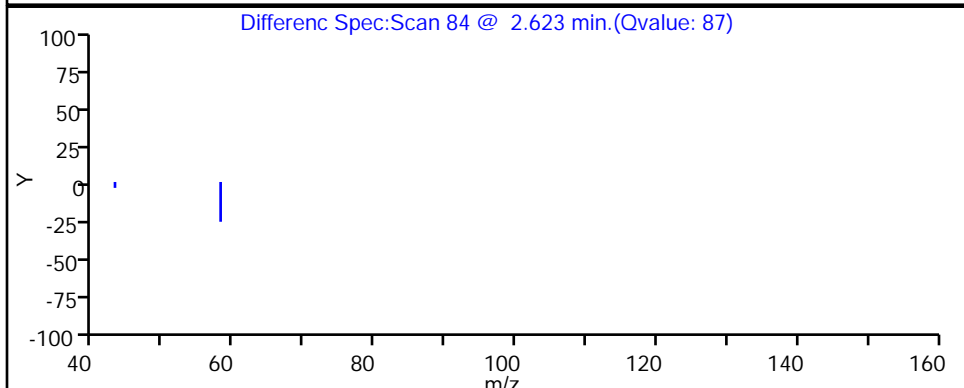
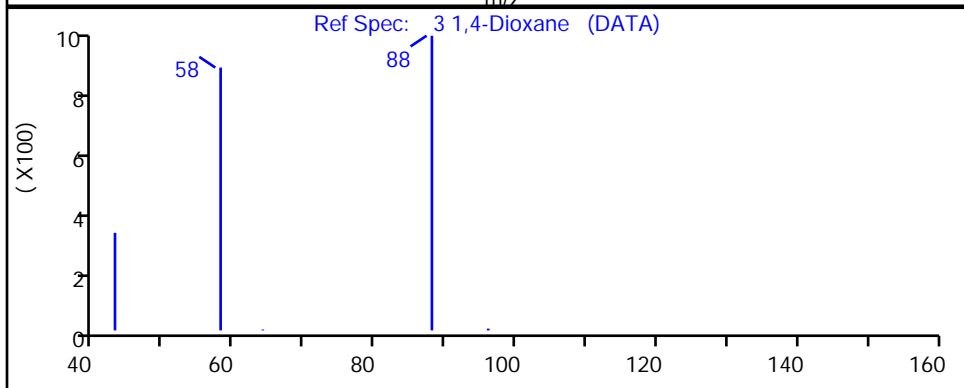
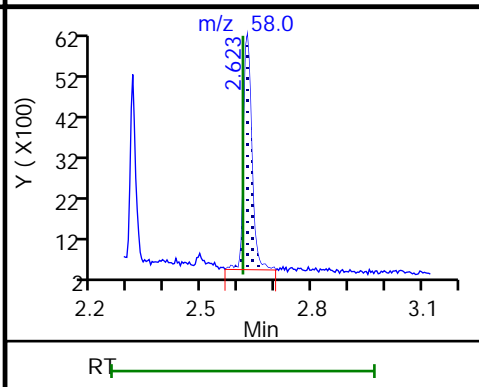
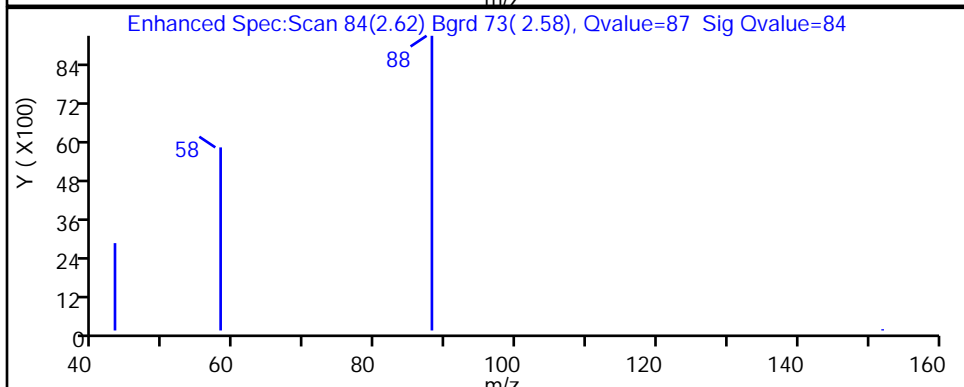
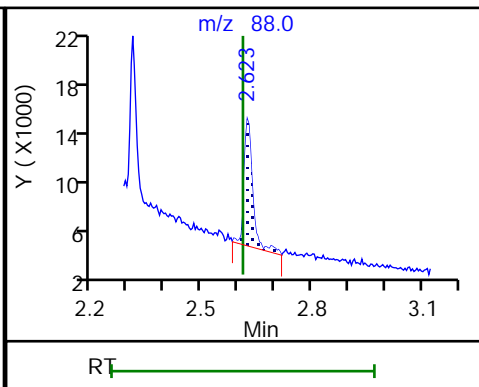
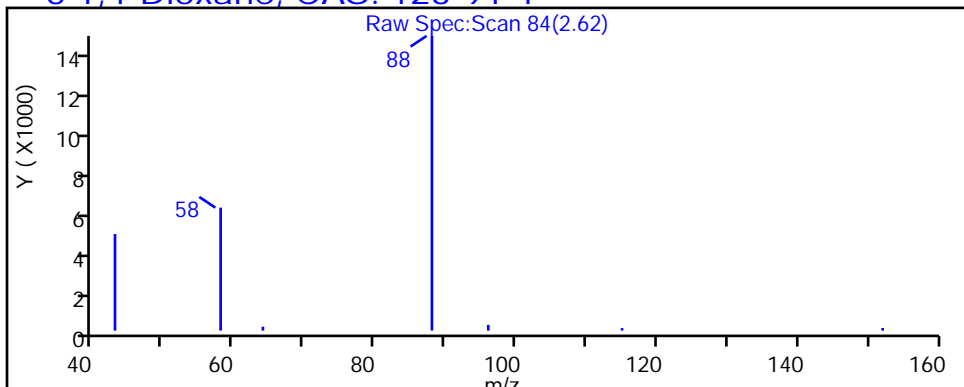
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1





Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151432.D

Injection Date: 21-Jul-2019 19:28:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-12-A

Lab Sample ID: 480-156213-12

Client ID: 356023-ERT4

Operator ID: bs

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 10.0000

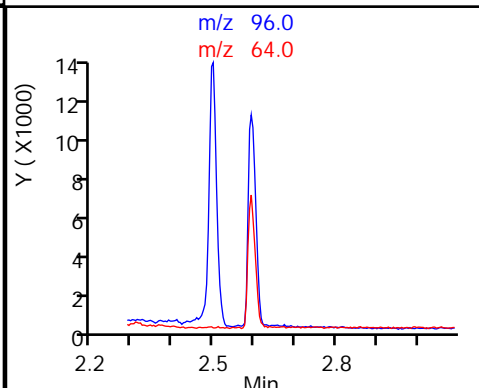
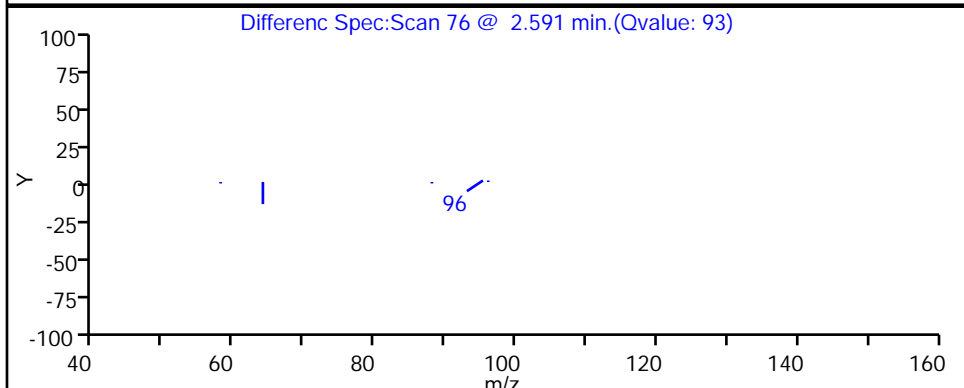
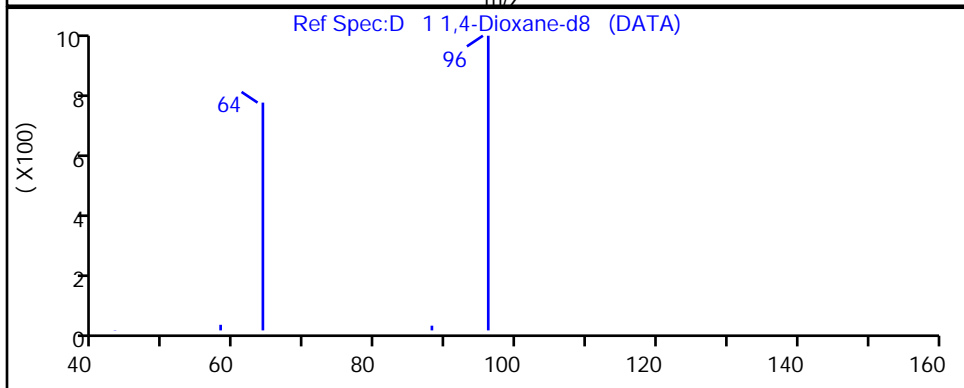
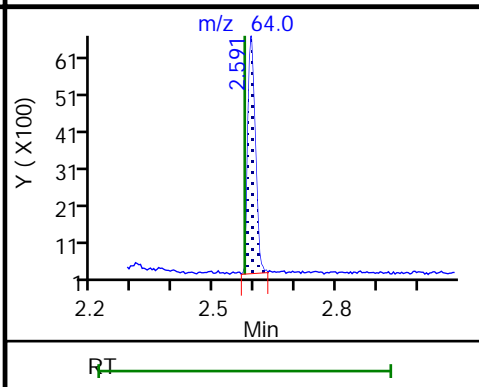
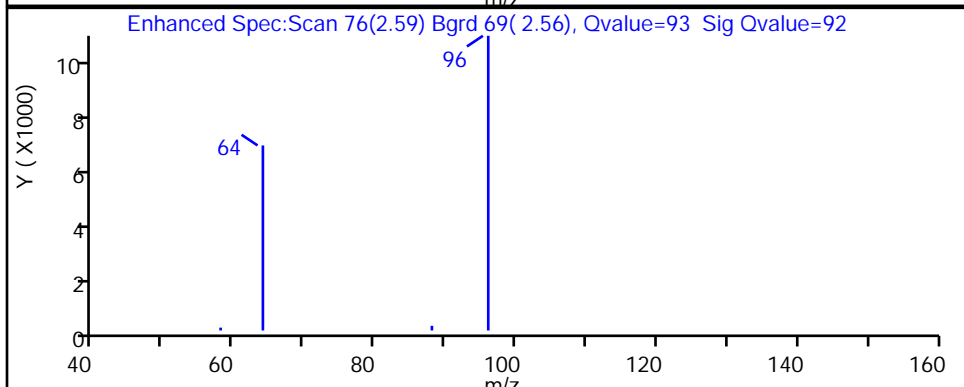
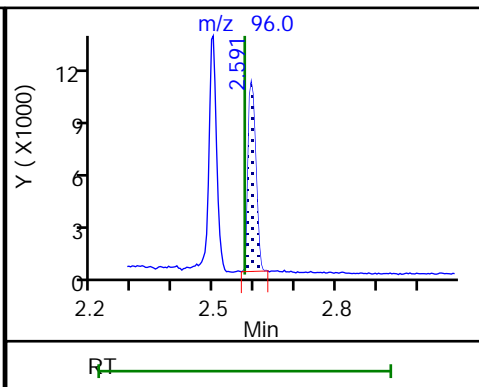
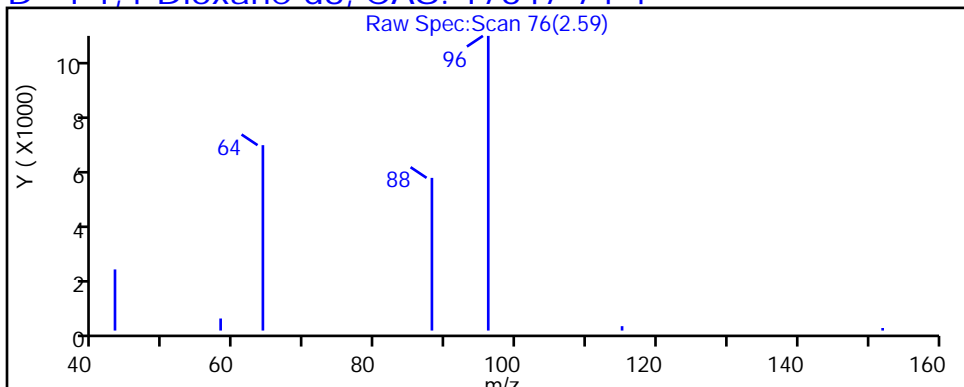
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW4 Lab Sample ID: 480-156213-13  
 Matrix: Water Lab File ID: U33151433.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 14:47  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 19:51  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 5  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	6.4	E	1.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151433.D  
 Lims ID: 480-156213-B-13-A  
 Client ID: 356023-MW4  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 19:51:30 ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 1.0 ul Dil. Factor: 5.0000  
 Sample Info: 16  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:37:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.603	2.575	0.028	87	34629	0.7325	36.6	
3 1,4-Dioxane	88	2.636	2.611	0.025	86	21825	1.28		E
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	97	409746	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151433.D

Injection Date: 21-Jul-2019 19:51:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-13-A

Lab Sample ID: 480-156213-13

Worklist Smp#: 16

Client ID: 356023-MW4

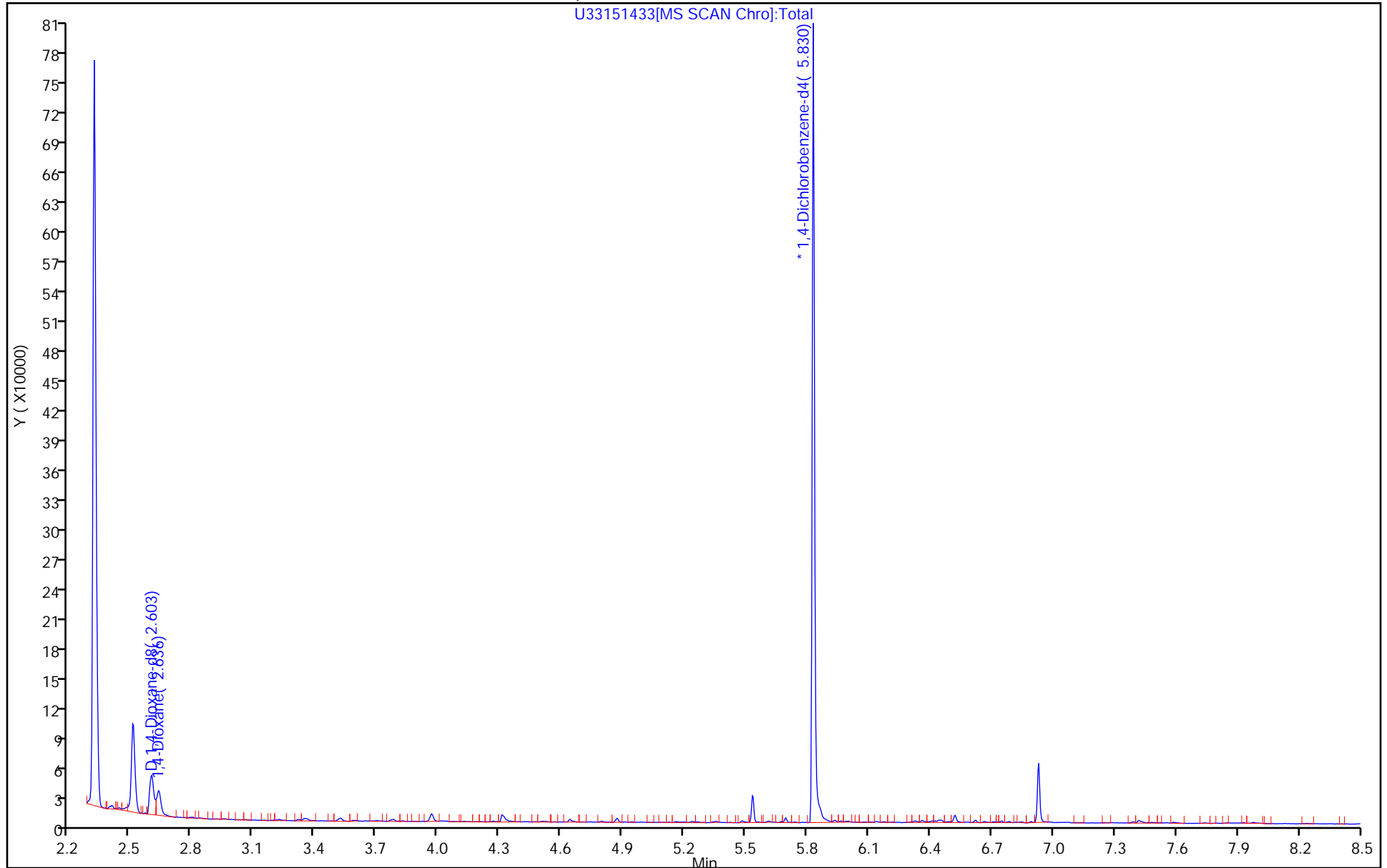
Injection Vol: 1.0 ul

Dil. Factor: 5.0000

ALS Bottle#: 16

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151433.D

Injection Date: 21-Jul-2019 19:51:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-13-A

Lab Sample ID: 480-156213-13

Client ID: 356023-MW4

Operator ID: bs

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

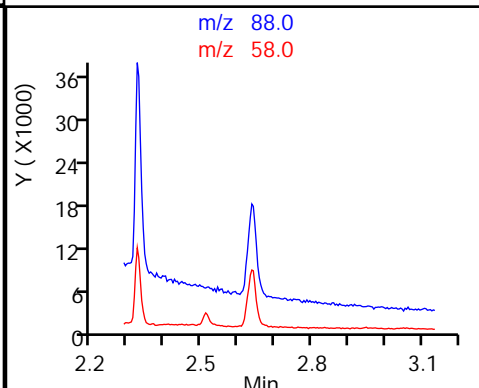
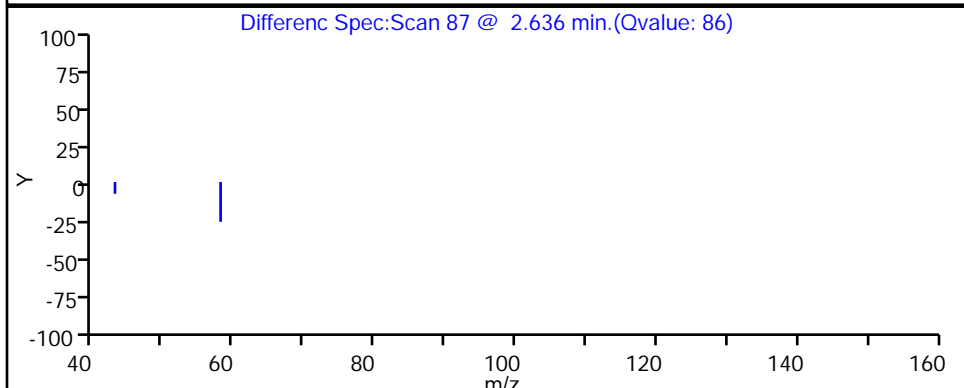
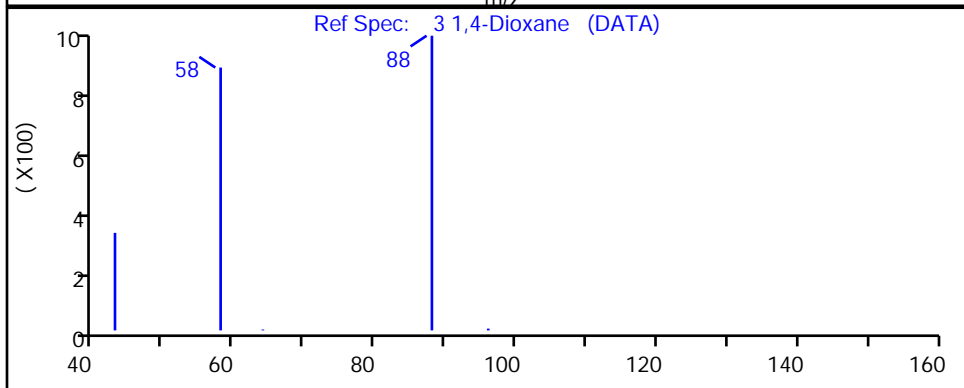
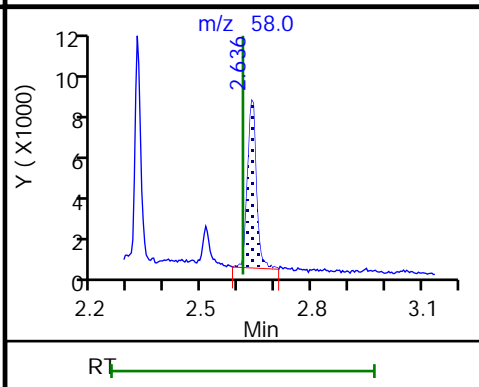
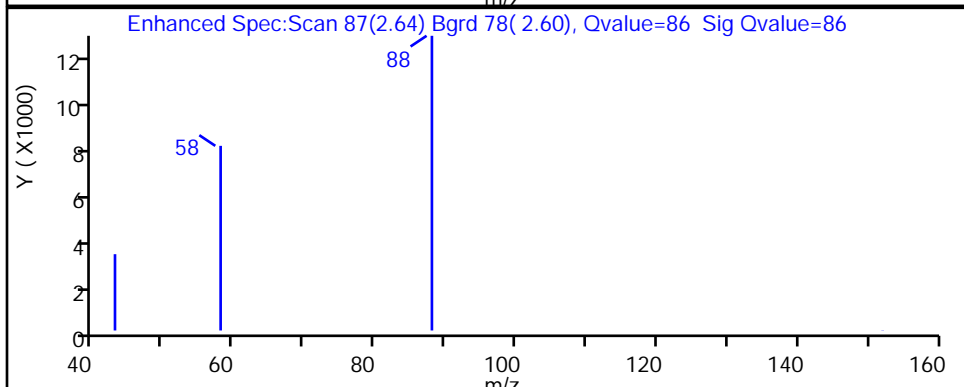
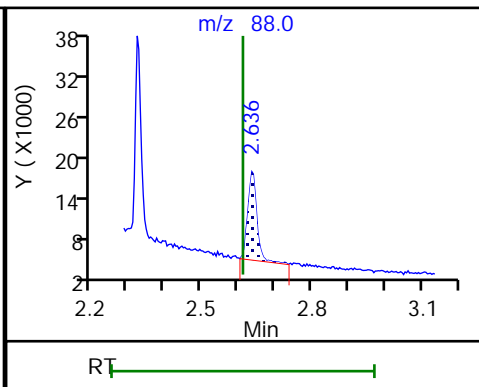
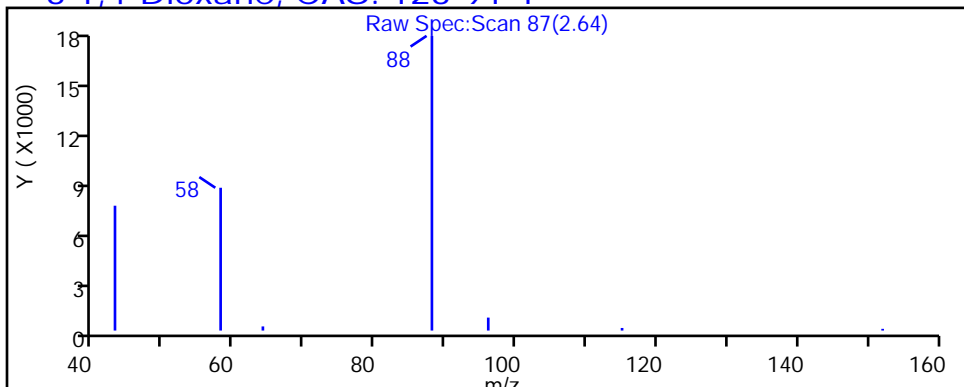
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151433.D

Injection Date: 21-Jul-2019 19:51:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-13-A

Lab Sample ID: 480-156213-13

Client ID: 356023-MW4

Operator ID: bs

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

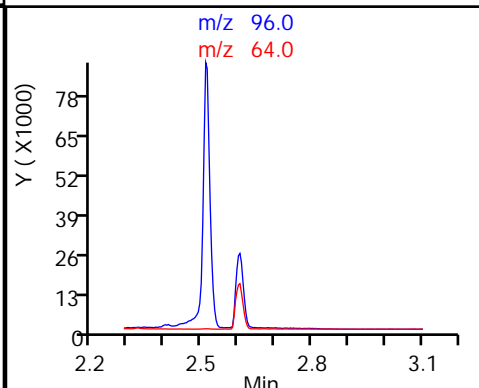
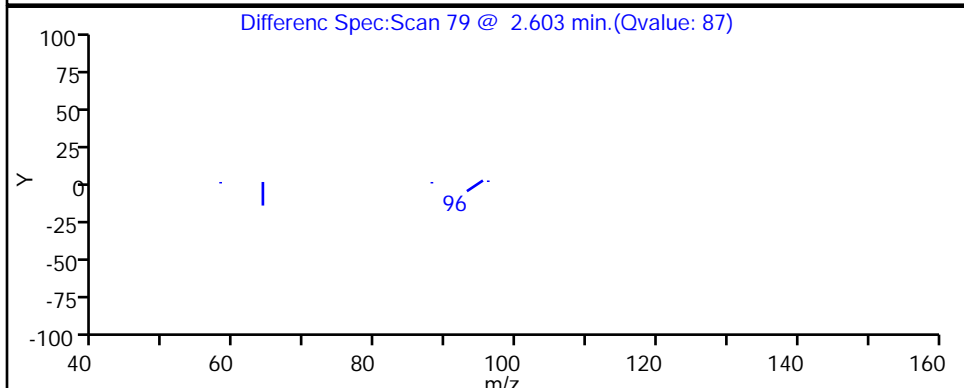
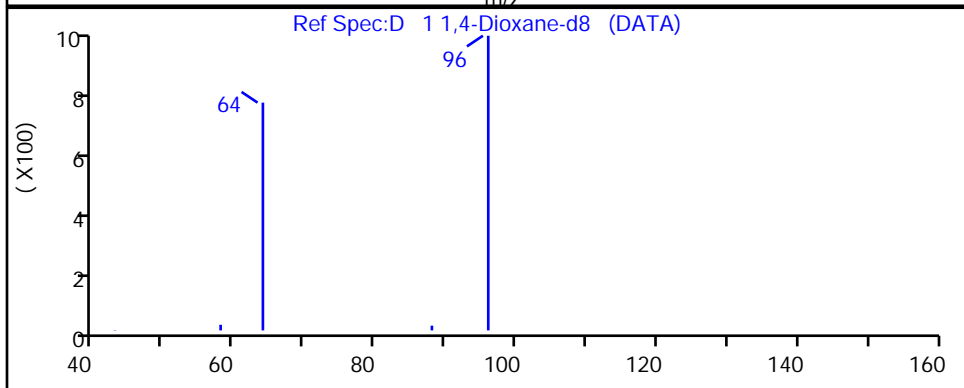
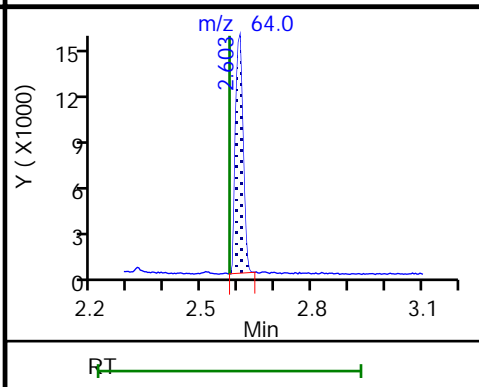
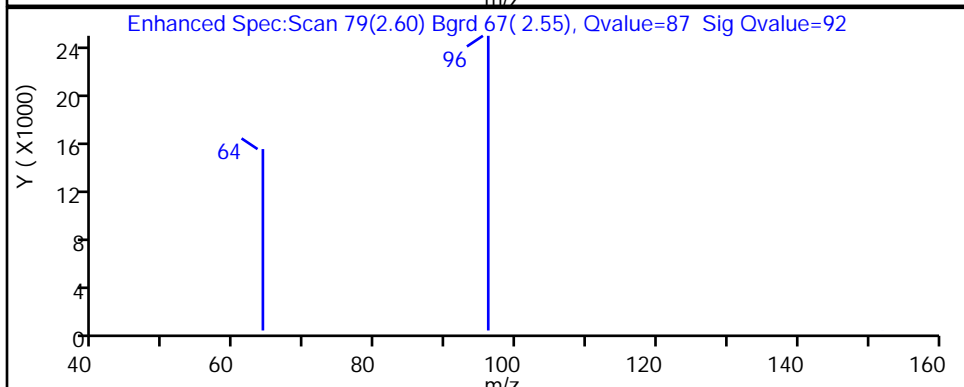
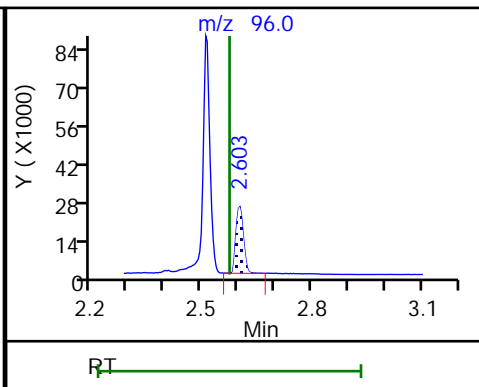
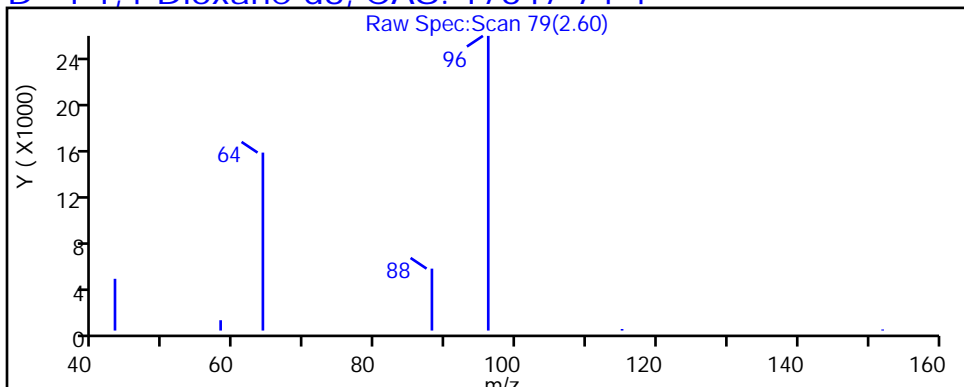
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B Lab Sample ID: 480-156213-14  
 Matrix: Water Lab File ID: U33151388.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 13:15  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/18/2019 21:19  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.76		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	43		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151388.D  
 Lims ID: 480-156213-A-14-B  
 Client ID: 356023-MW6B  
 Sample Type: Client  
 Inject. Date: 18-Jul-2019 21:19:30 ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 25  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:58 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 19-Jul-2019 16:36:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
----------	-----	-----------	---------------	---------------	---	----------	-----------------	------	-------

D 1 1,4-Dioxane-d8	96	2.656	2.558	0.098	87	214433	4.32	43.2	
3 1,4-Dioxane	88	2.697	2.615	0.082	84	15953	0.7576		
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	98	430382	4.00		

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151388.D

Injection Date: 18-Jul-2019 21:19:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-14-B

Lab Sample ID: 480-156213-14

Worklist Smp#: 25

Client ID: 356023-MW6B

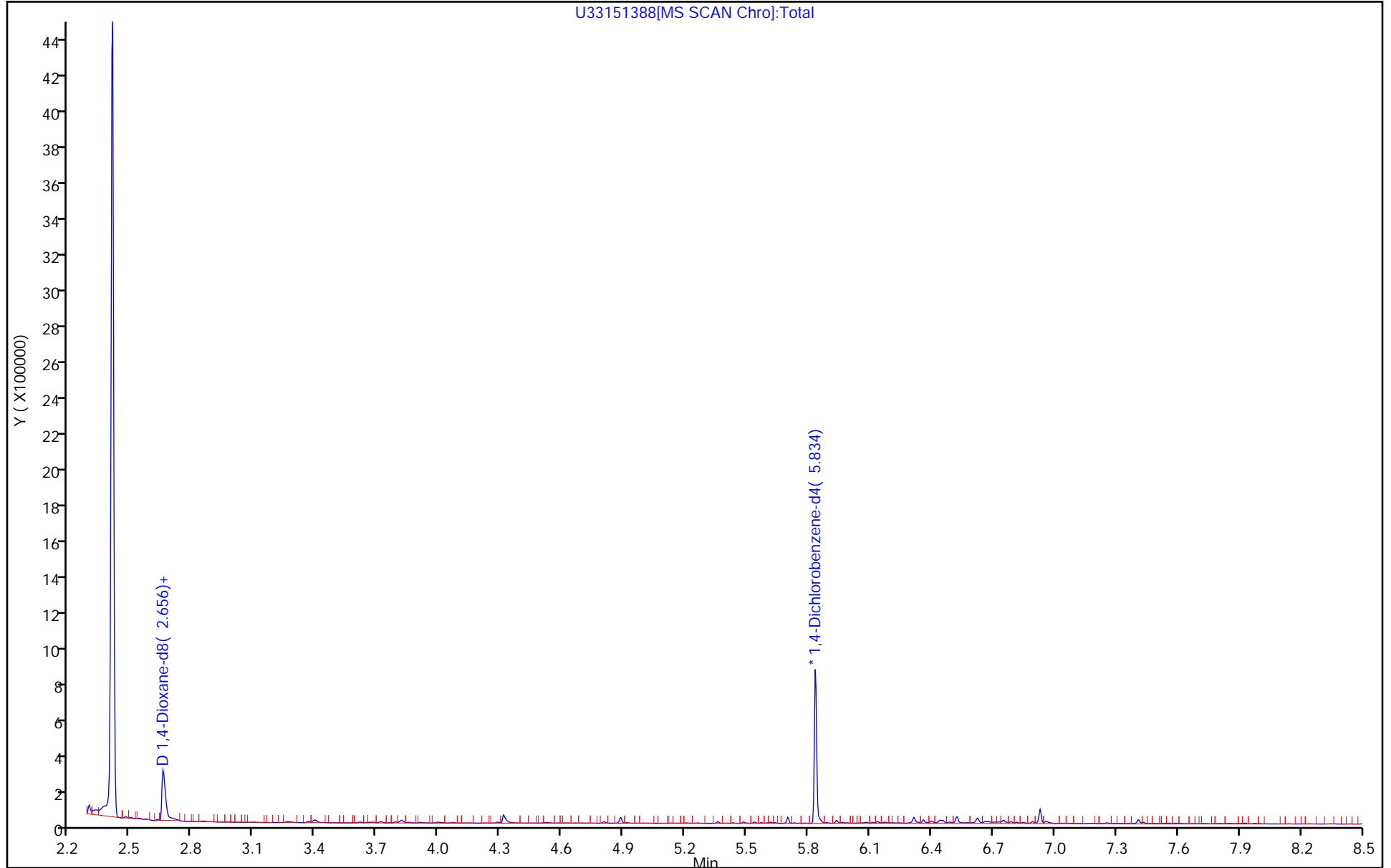
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 25

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151388.D

Injection Date: 18-Jul-2019 21:19:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-14-B

Lab Sample ID: 480-156213-14

Client ID: 356023-MW6B

Operator ID: bs

ALS Bottle#: 25

Worklist Smp#: 25

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

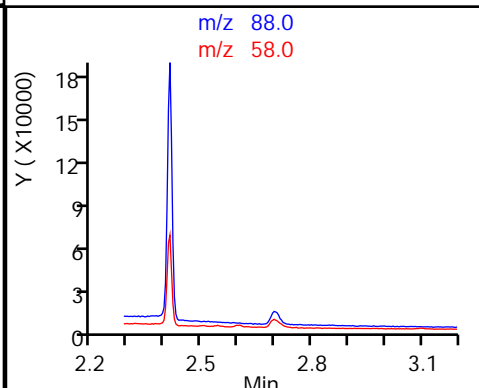
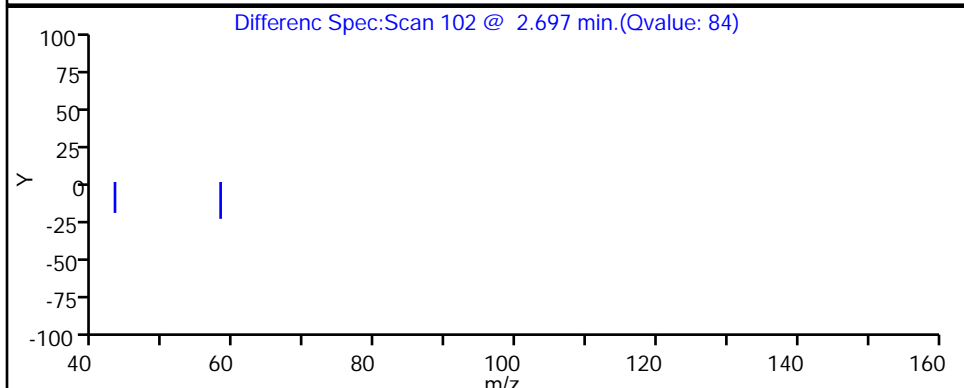
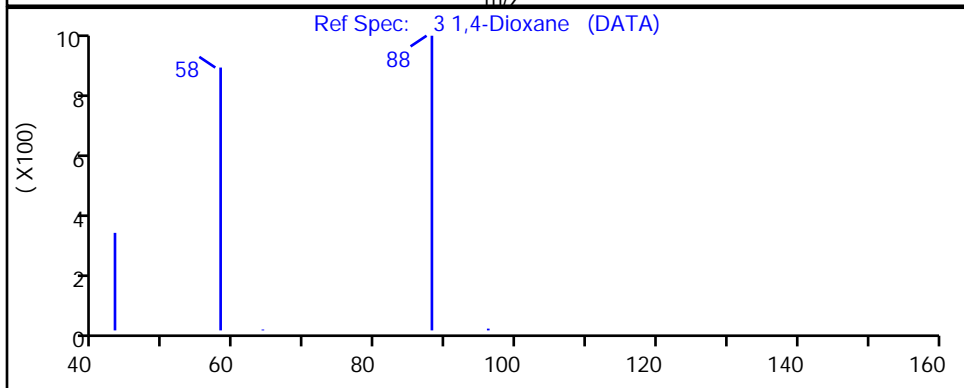
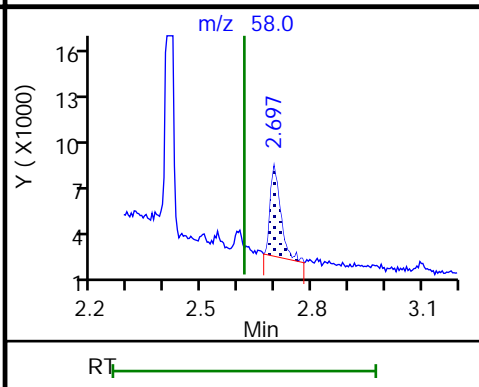
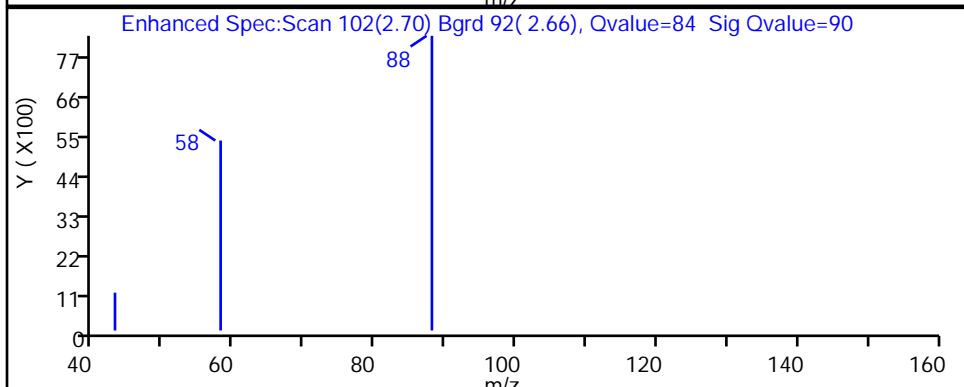
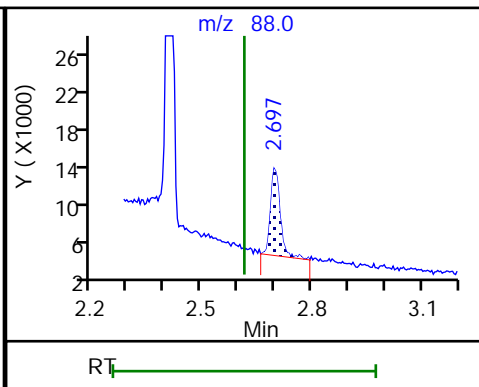
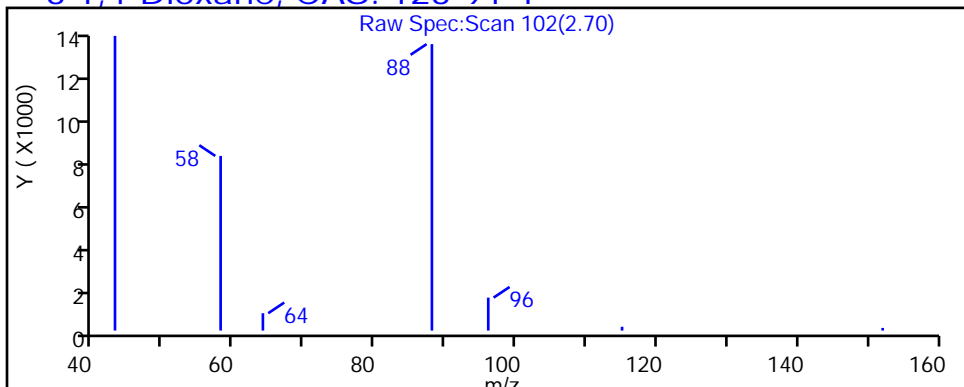
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151388.D

Injection Date: 18-Jul-2019 21:19:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-14-B

Lab Sample ID: 480-156213-14

Client ID: 356023-MW6B

Operator ID: bs

ALS Bottle#: 25

Worklist Smp#: 25

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

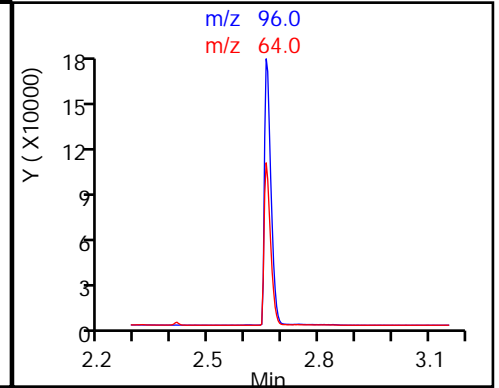
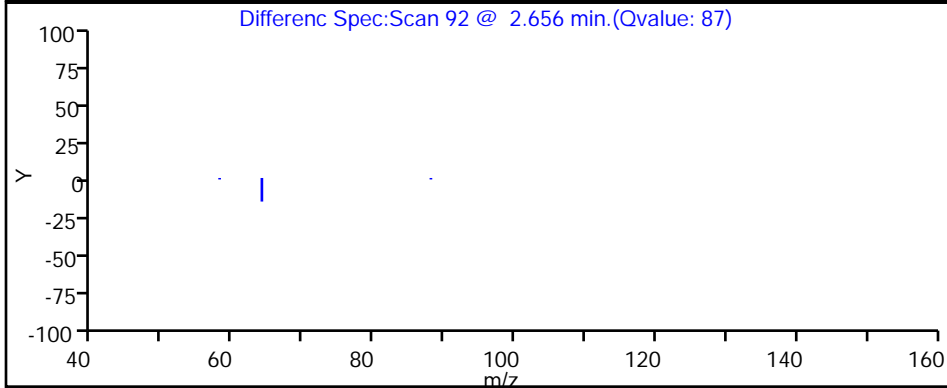
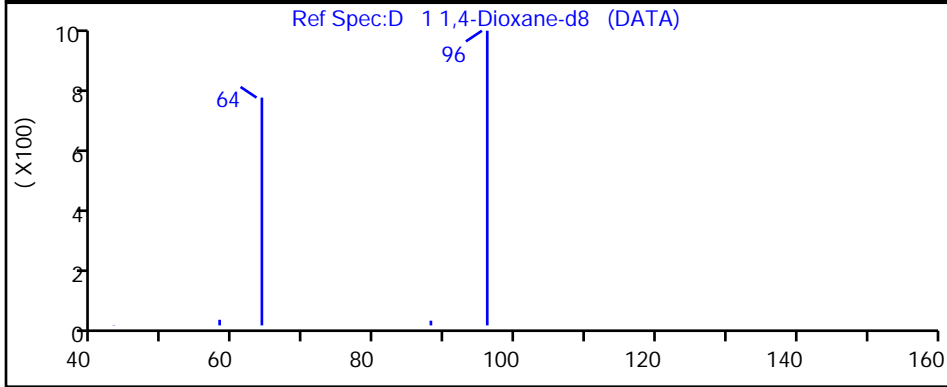
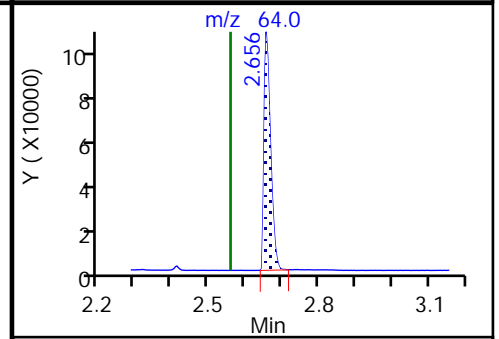
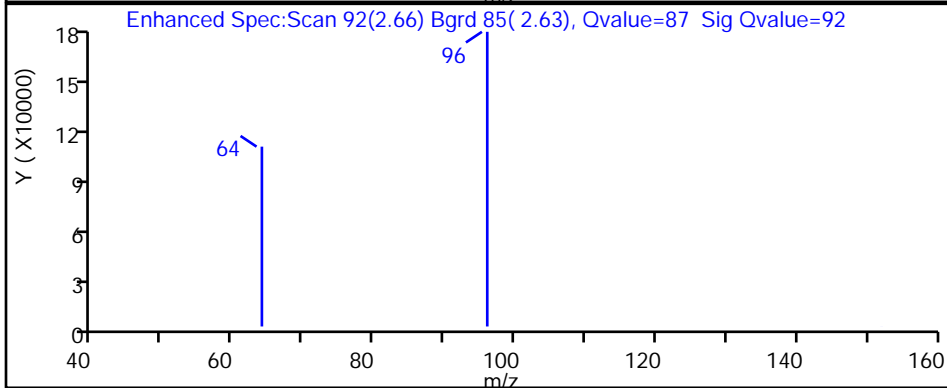
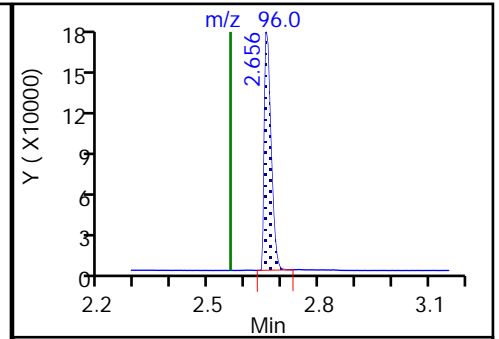
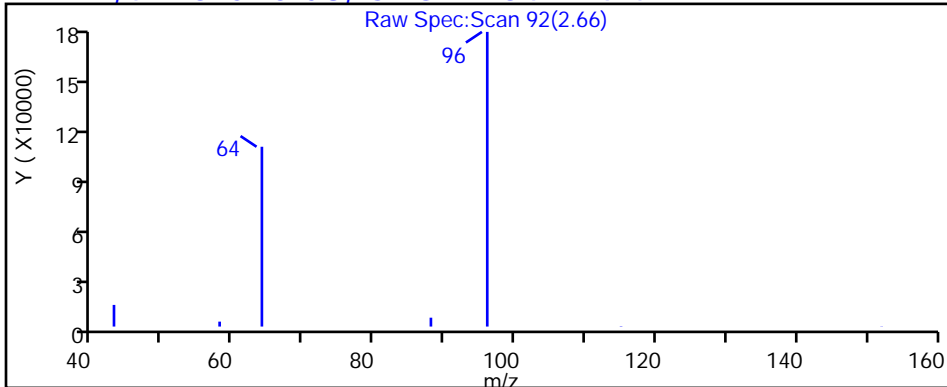
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW15B Lab Sample ID: 480-156213-15  
 Matrix: Water Lab File ID: U33151434.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/12/2019 09:30  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 20:15  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 5  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.9		1.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151434.D  
 Lims ID: 480-156213-A-15-A  
 Client ID: 356023-MW15B  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 20:15:30 ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 1.0 ul Dil. Factor: 5.0000  
 Sample Info: 17  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:37:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.595	2.575	0.020	89	30616	0.6455	32.3	
3 1,4-Dioxane	88	2.627	2.611	0.016	86	17879	1.19		M
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	97	411083	4.00		

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151434.D

Injection Date: 21-Jul-2019 20:15:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-15-A

Lab Sample ID: 480-156213-15

Worklist Smp#: 17

Client ID: 356023-MW15B

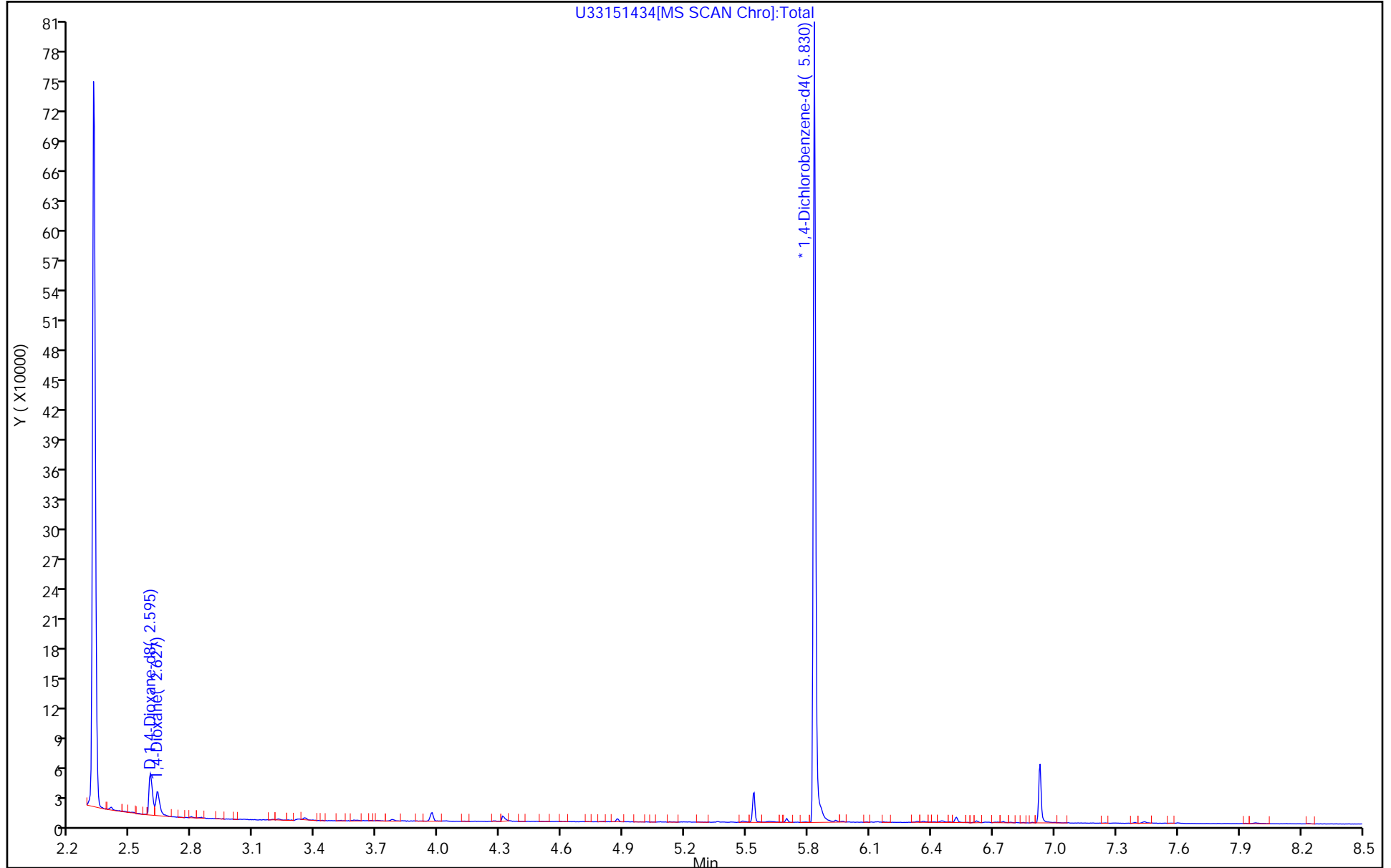
Injection Vol: 1.0 ul

Dil. Factor: 5.0000

ALS Bottle#: 17

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151434.D

Injection Date: 21-Jul-2019 20:15:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-15-A

Lab Sample ID: 480-156213-15

Client ID: 356023-MW15B

Operator ID: bs

ALS Bottle#: 17

Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

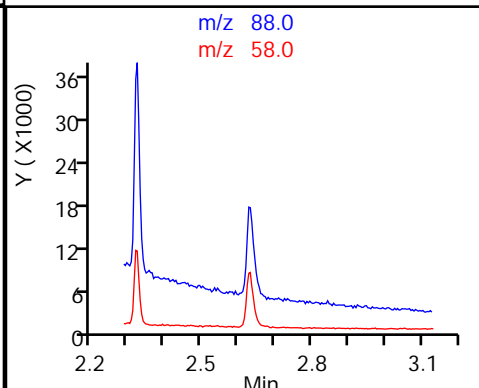
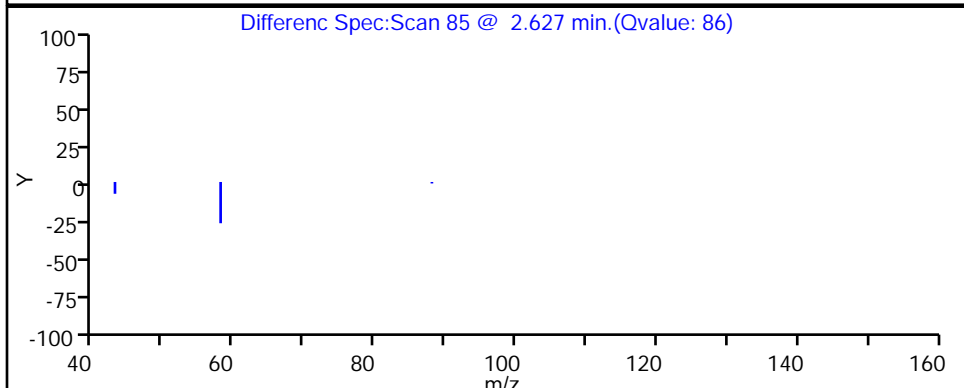
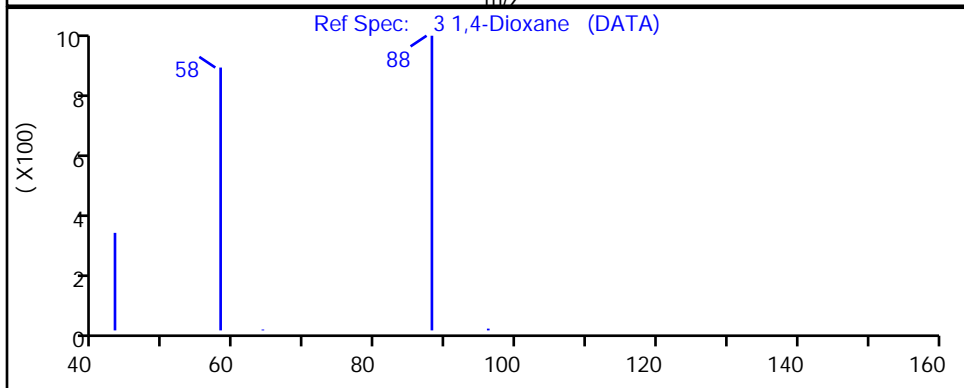
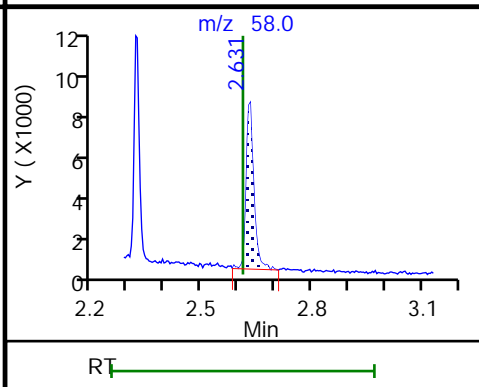
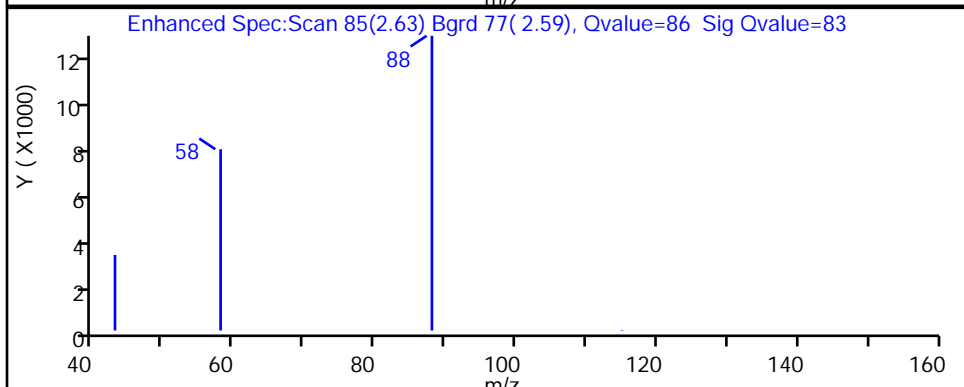
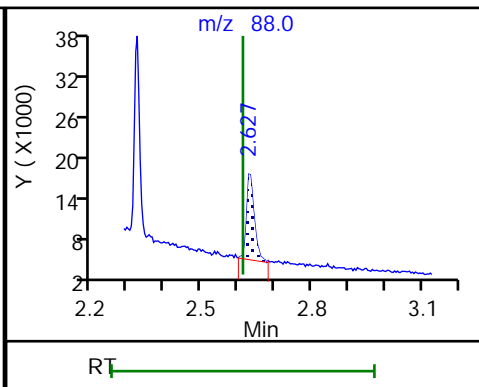
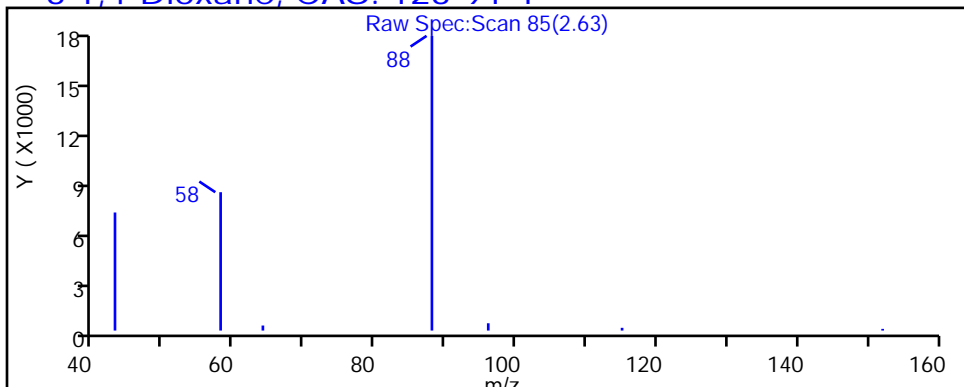
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

### 3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151434.D

Injection Date: 21-Jul-2019 20:15:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-15-A

Lab Sample ID: 480-156213-15

Client ID: 356023-MW15B

Operator ID: bs

ALS Bottle#: 17

Worklist Smp#: 17

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

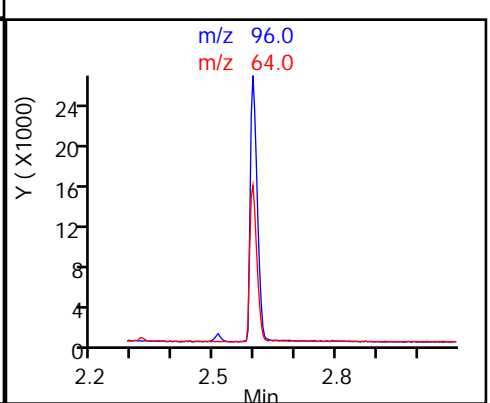
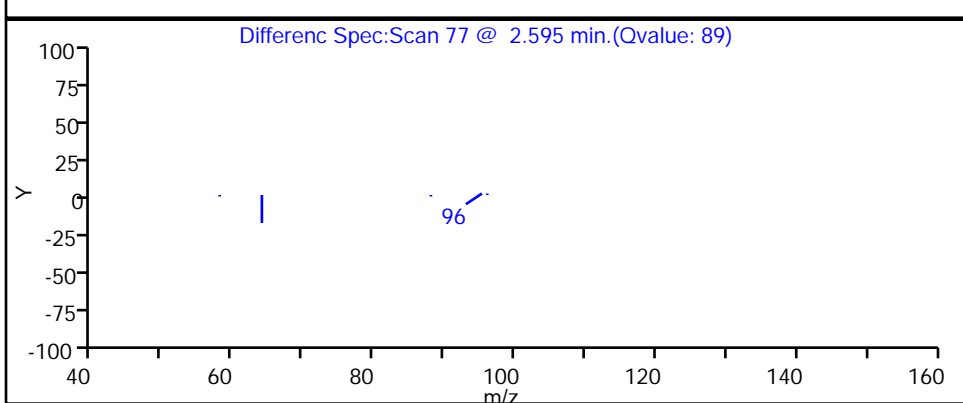
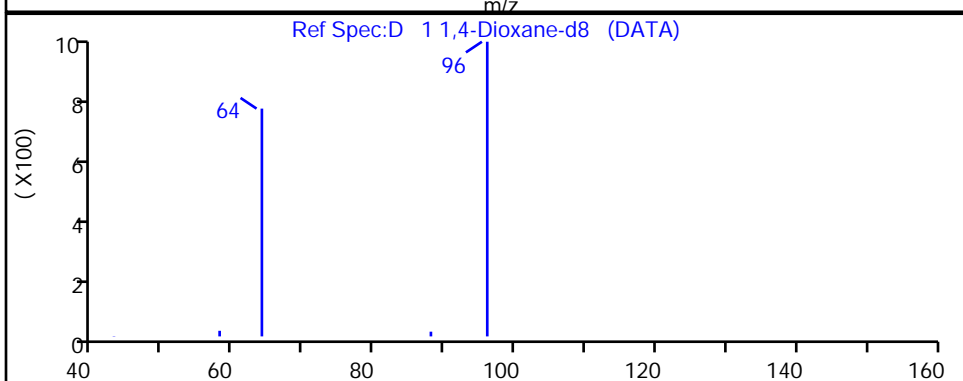
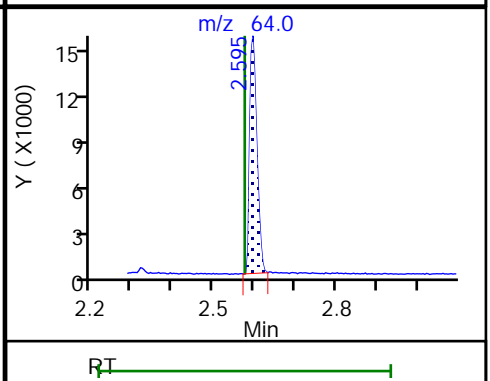
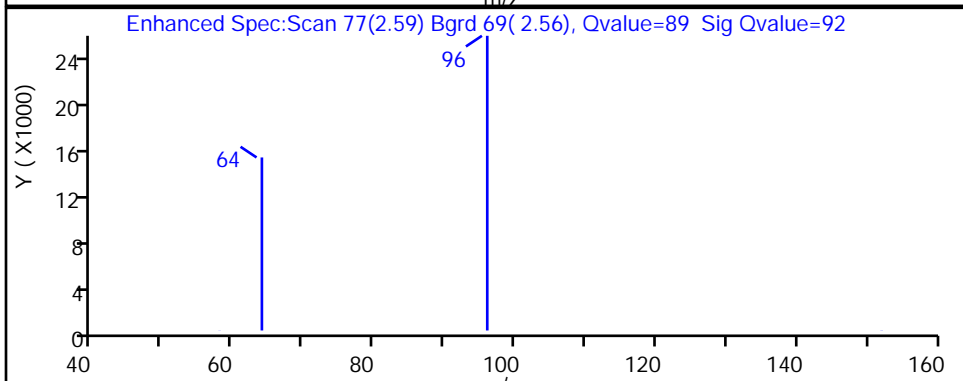
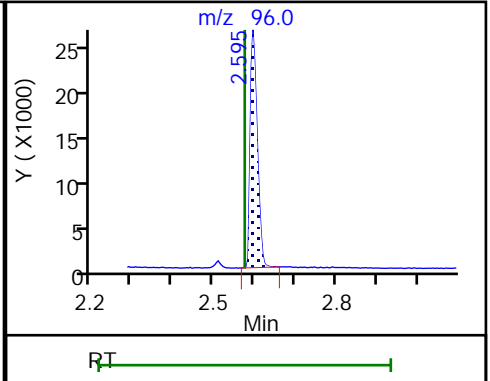
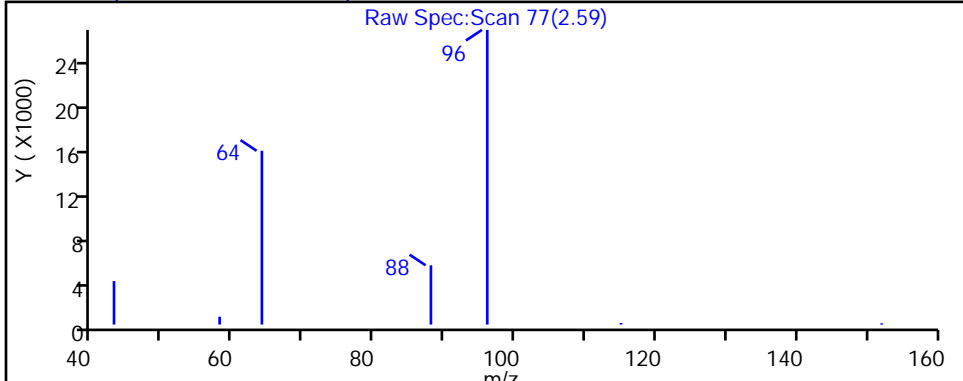
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4





Eurofins TestAmerica, Buffalo

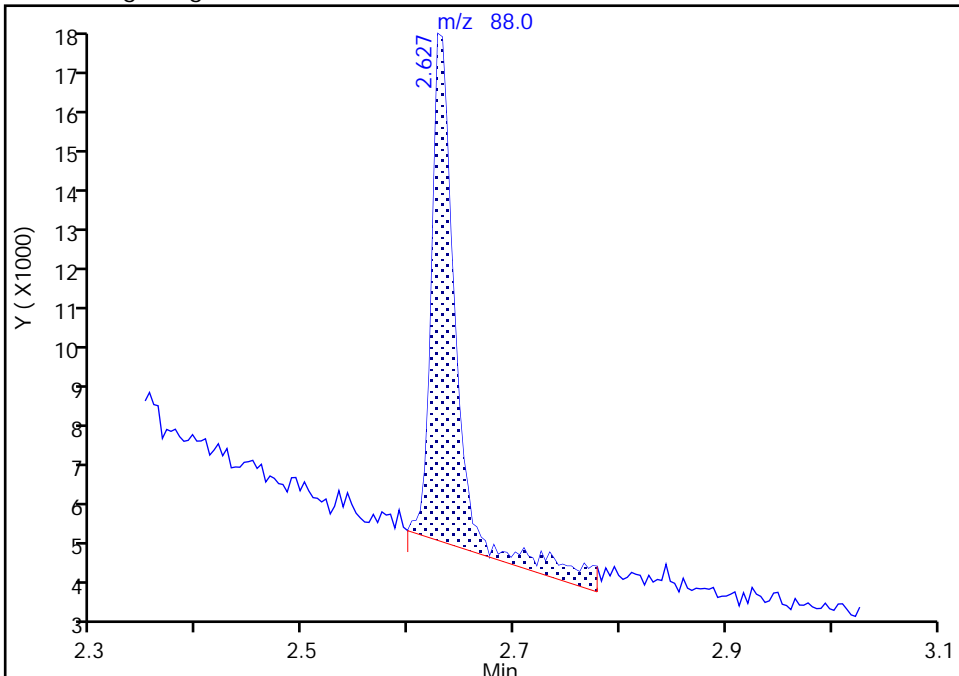
Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151434.D  
Injection Date: 21-Jul-2019 20:15:30 Instrument ID: HP5973U  
Lims ID: 480-156213-A-15-A Lab Sample ID: 480-156213-15  
Client ID: 356023-MW15B  
Operator ID: bs ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 1.0 ul Dil. Factor: 5.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

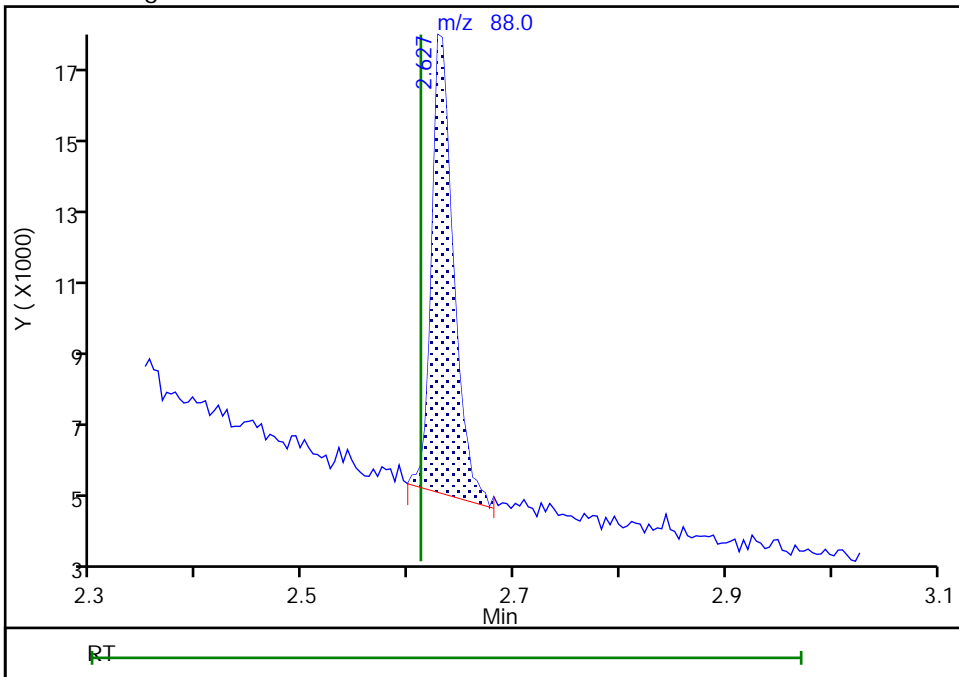
RT: 2.63  
Area: 20131  
Amount: 1.339128  
Amount Units: ng/ul

Processing Integration Results



RT: 2.63  
Area: 17879  
Amount: 1.189323  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 22-Jul-2019 13:37:17  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-EB1 Lab Sample ID: 480-156213-16  
 Matrix: Water Lab File ID: U33151406.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/12/2019 09:45  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/19/2019 04:32  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482665 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151406.D  
 Lims ID: 480-156213-B-16-A  
 Client ID: 356023-EB1  
 Sample Type: Client  
 Inject. Date: 19-Jul-2019 04:32:30 ALS Bottle#: 43 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 43  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:45 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:38:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.632	2.574	0.058	91	150546	3.25	32.5	
3 1,4-Dioxane	88		2.615				ND		U
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	96	401096	4.00		

**QC Flag Legend**

Review Flags

U - Marked Undetected

**Reagents:**

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151406.D

Injection Date: 19-Jul-2019 04:32:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-16-A

Lab Sample ID: 480-156213-16

Worklist Smp#: 13

Client ID: 356023-EB1

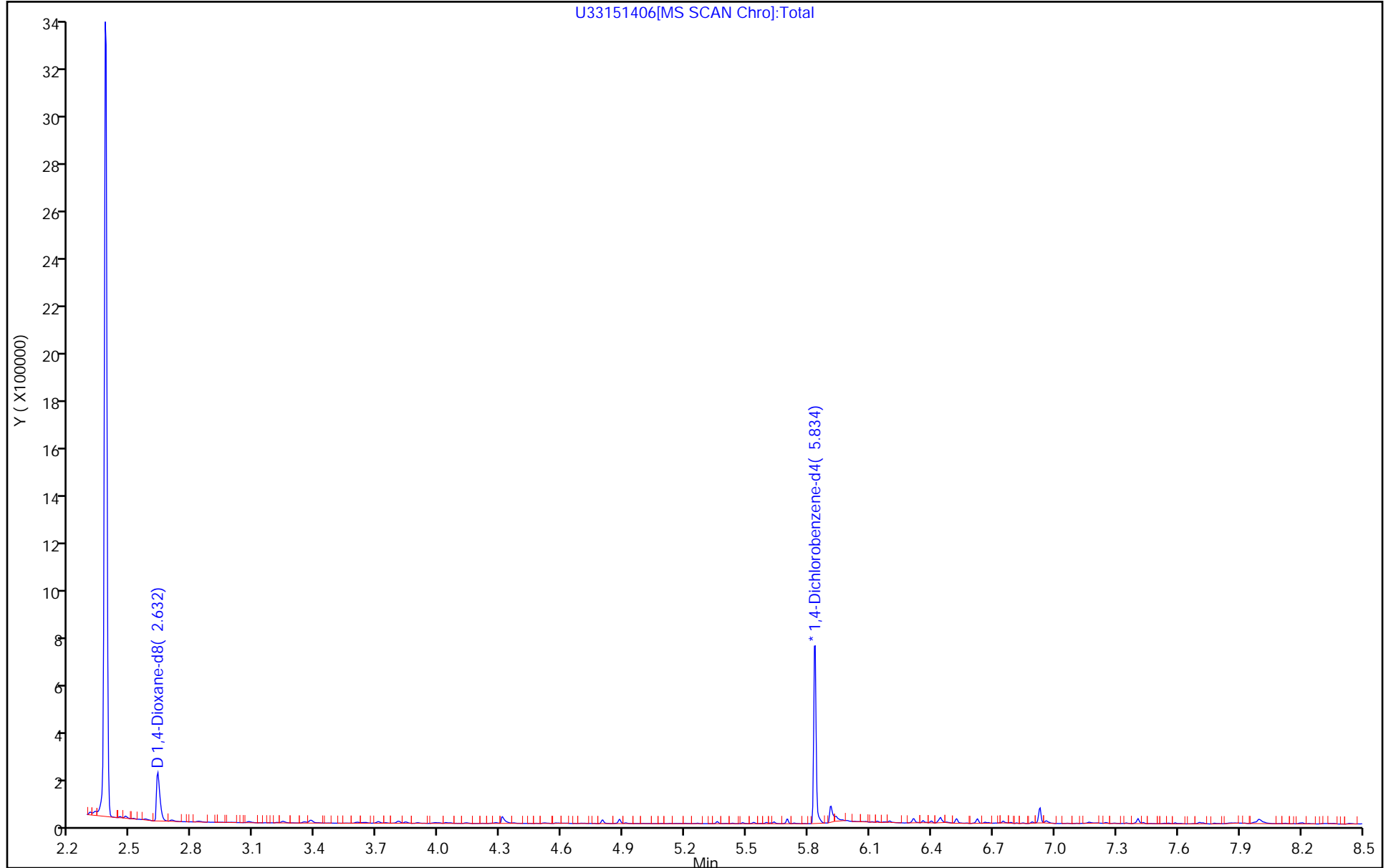
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 43

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151406.D

Injection Date: 19-Jul-2019 04:32:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-16-A

Lab Sample ID: 480-156213-16

Client ID: 356023-EB1

Operator ID: bs

ALS Bottle#: 43

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

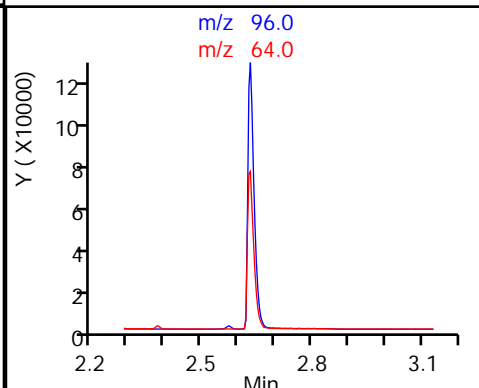
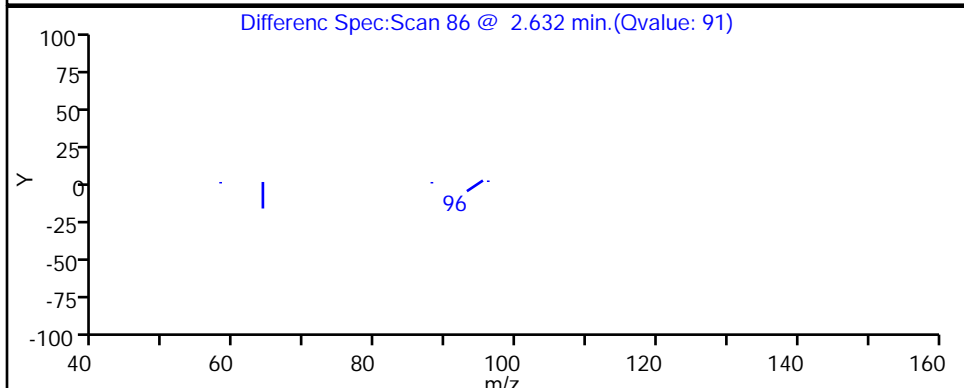
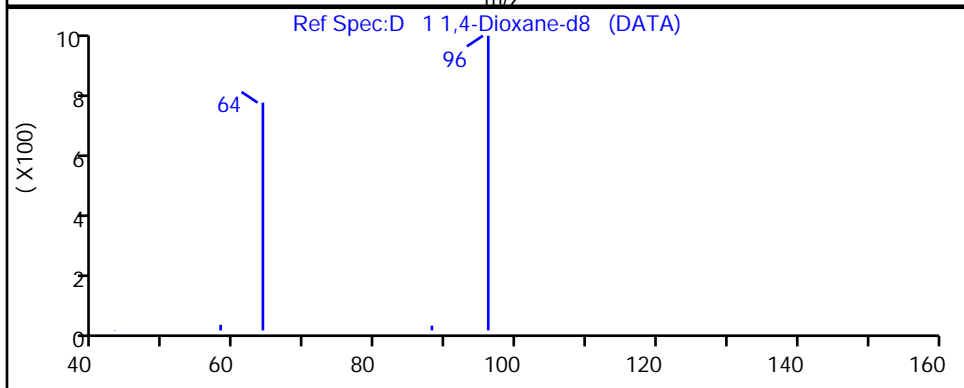
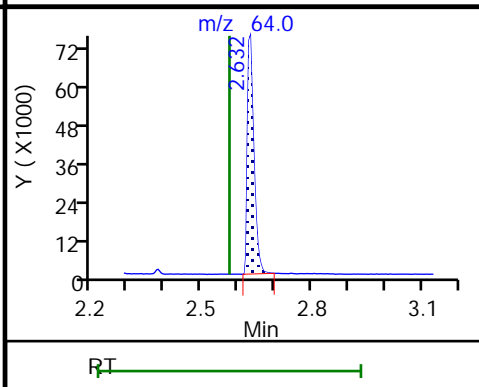
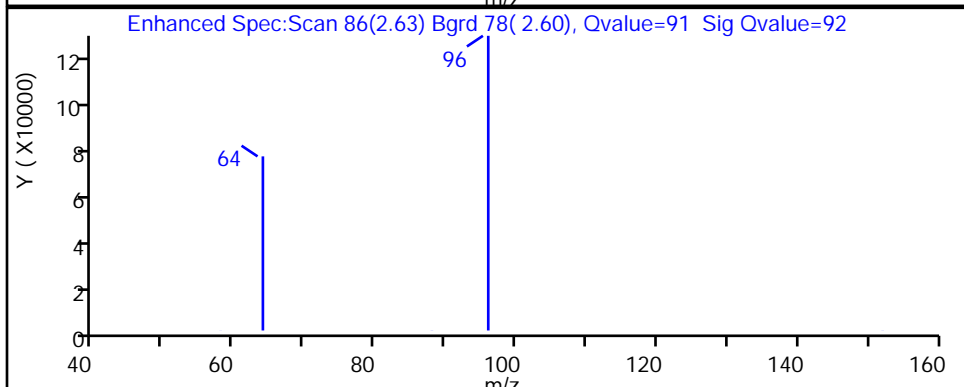
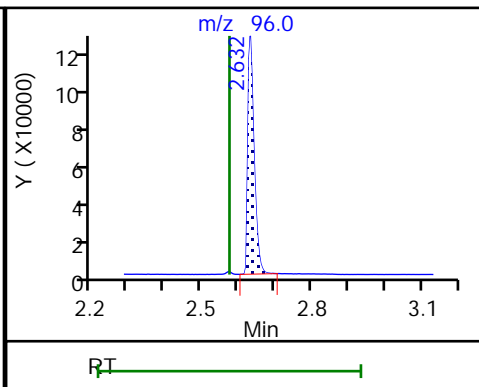
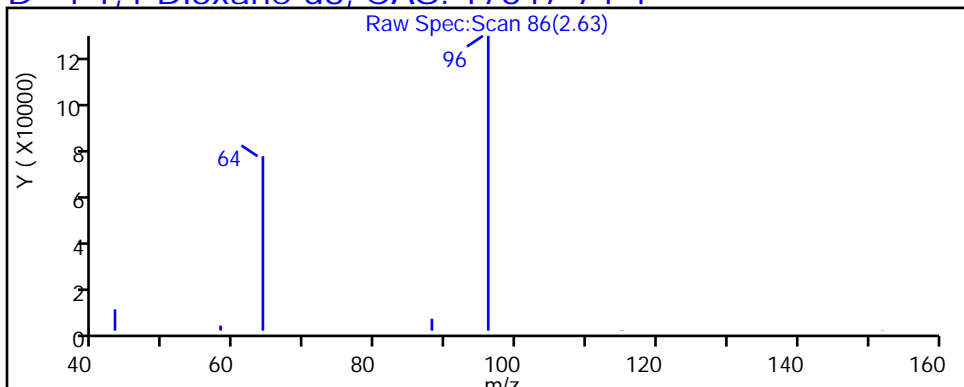
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151406.D

Injection Date: 19-Jul-2019 04:32:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-16-A

Lab Sample ID: 480-156213-16

Client ID: 356023-EB1

Operator ID: bs

ALS Bottle#: 43

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

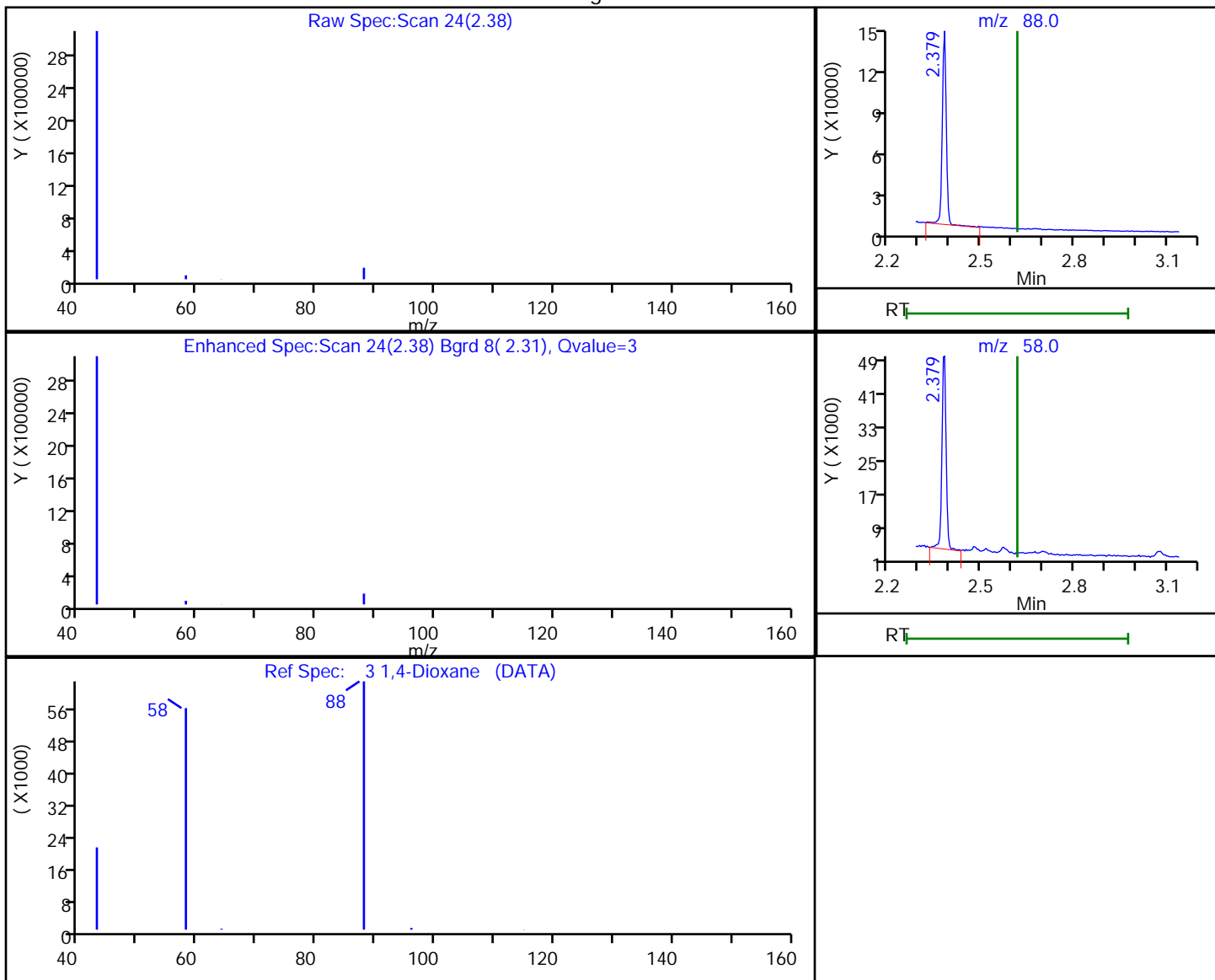
Column:

Detector

MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
2.38	88.00	123123	8.328083
2.38	58.00	43985	

Reviewer: schickr, 21-Jul-2019 13:38:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1B Lab Sample ID: 480-156213-17  
 Matrix: Water Lab File ID: U33151407.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/12/2019 11:15  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/19/2019 04:56  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482665 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	43		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151407.D  
 Lims ID: 480-156213-A-17-A  
 Client ID: 356023-MW1B  
 Sample Type: Client  
 Inject. Date: 19-Jul-2019 04:56:30 ALS Bottle#: 44 Worklist Smp#: 14  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 44  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:45 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:38:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.656	2.574	0.082	88	202606	4.32	43.2	
3 1,4-Dioxane	88		2.615				ND		U
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	98	406825	4.00		

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151407.D

Injection Date: 19-Jul-2019 04:56:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-17-A

Lab Sample ID: 480-156213-17

Worklist Smp#: 14

Client ID: 356023-MW1B

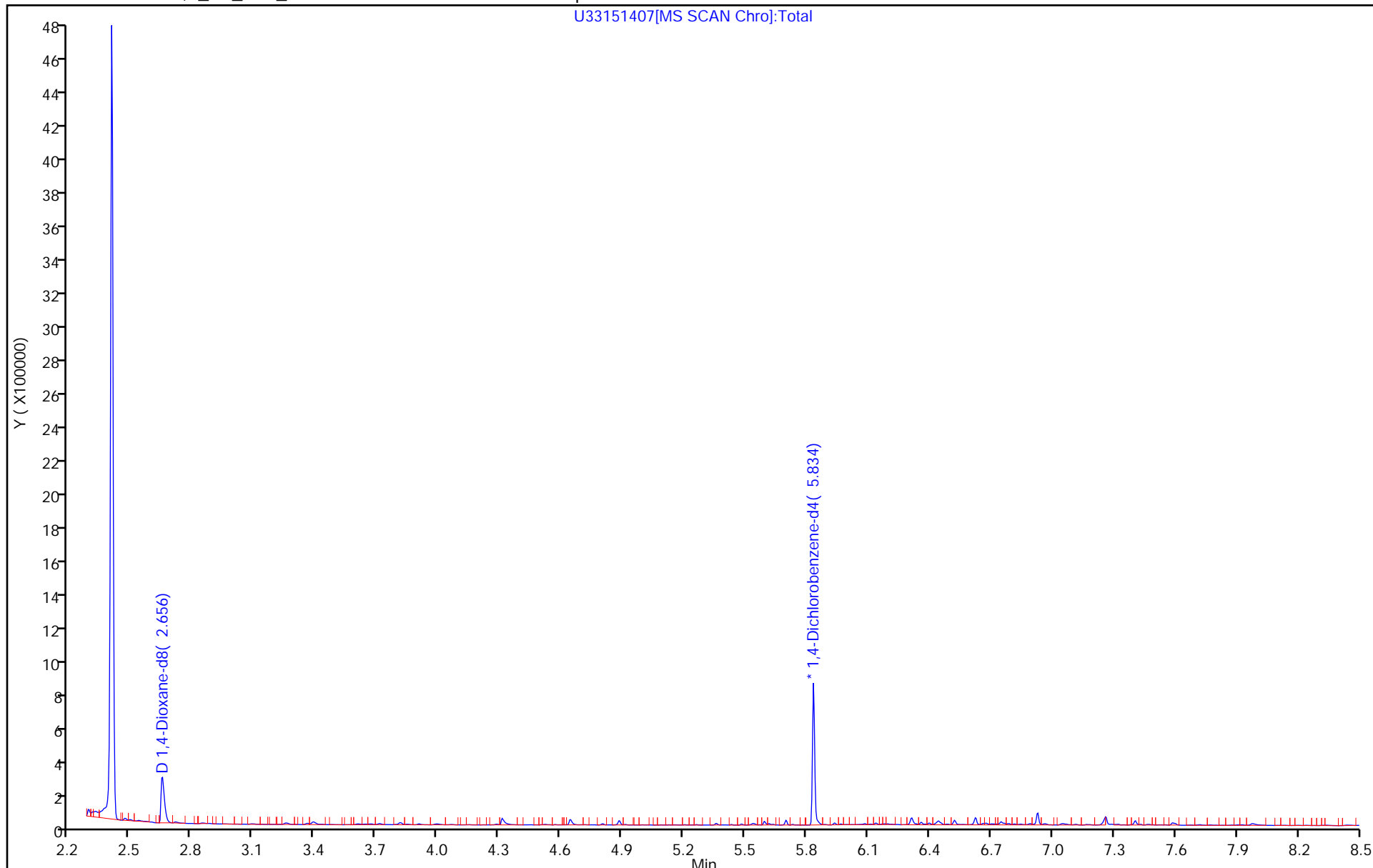
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 44

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151407.D

Injection Date: 19-Jul-2019 04:56:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-17-A

Lab Sample ID: 480-156213-17

Client ID: 356023-MW1B

Operator ID: bs

ALS Bottle#: 44

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

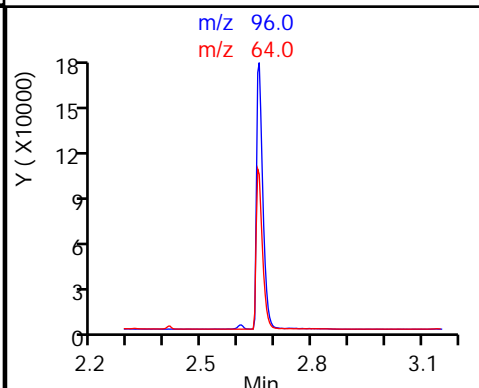
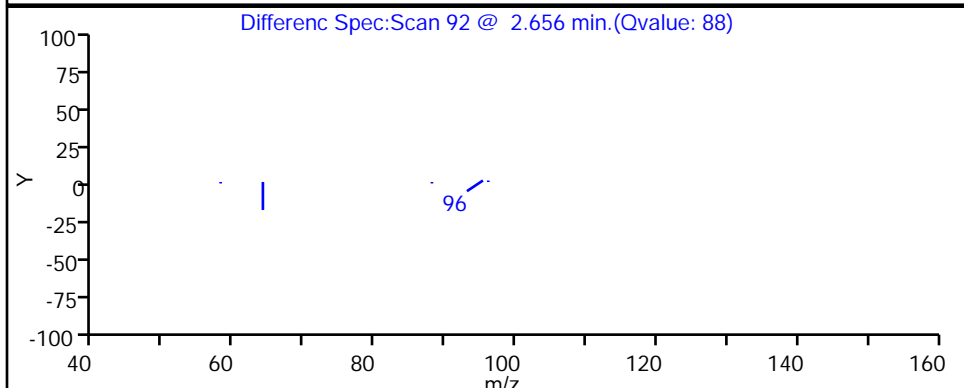
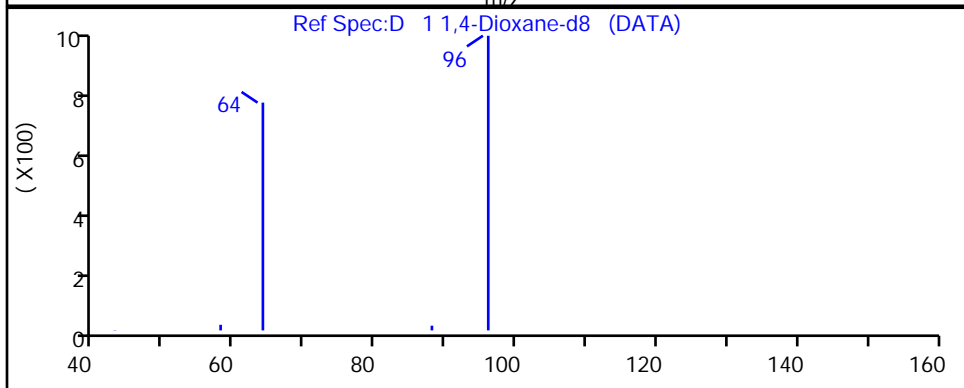
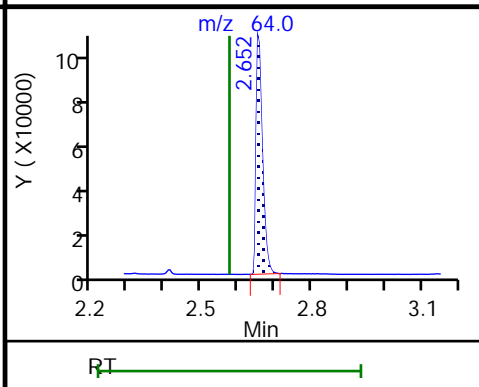
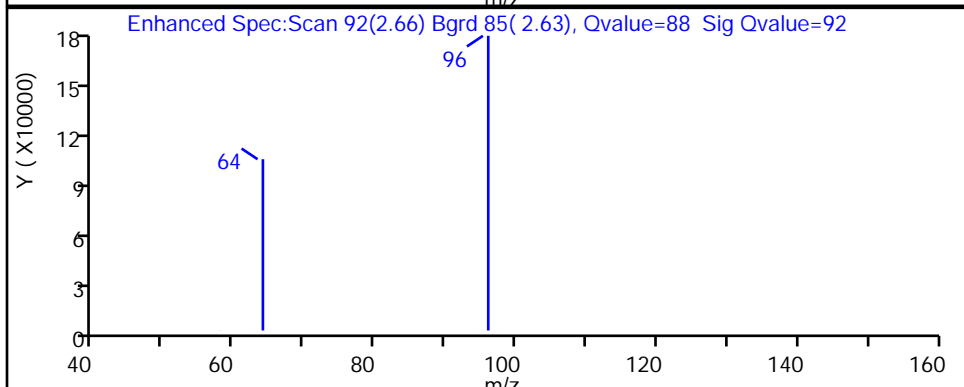
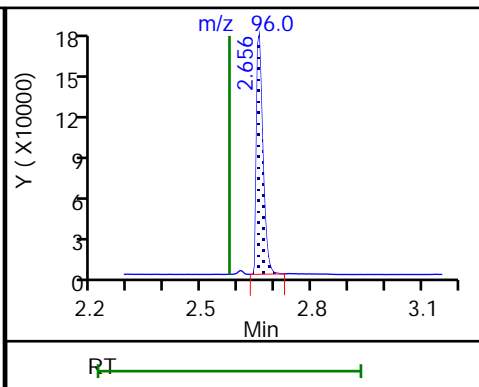
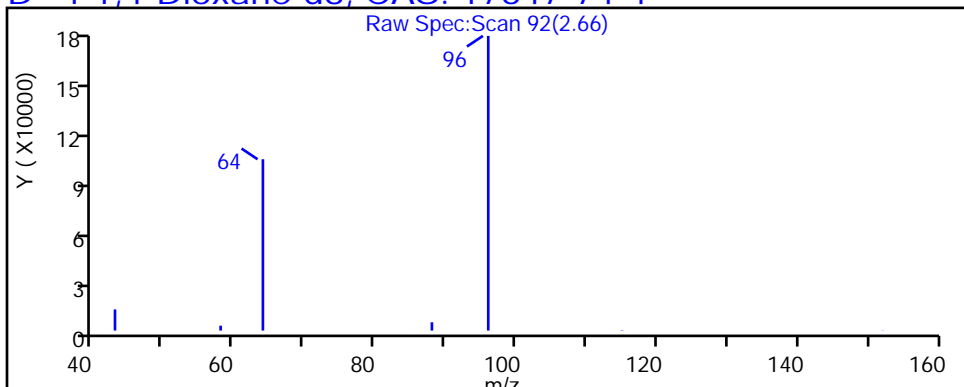
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

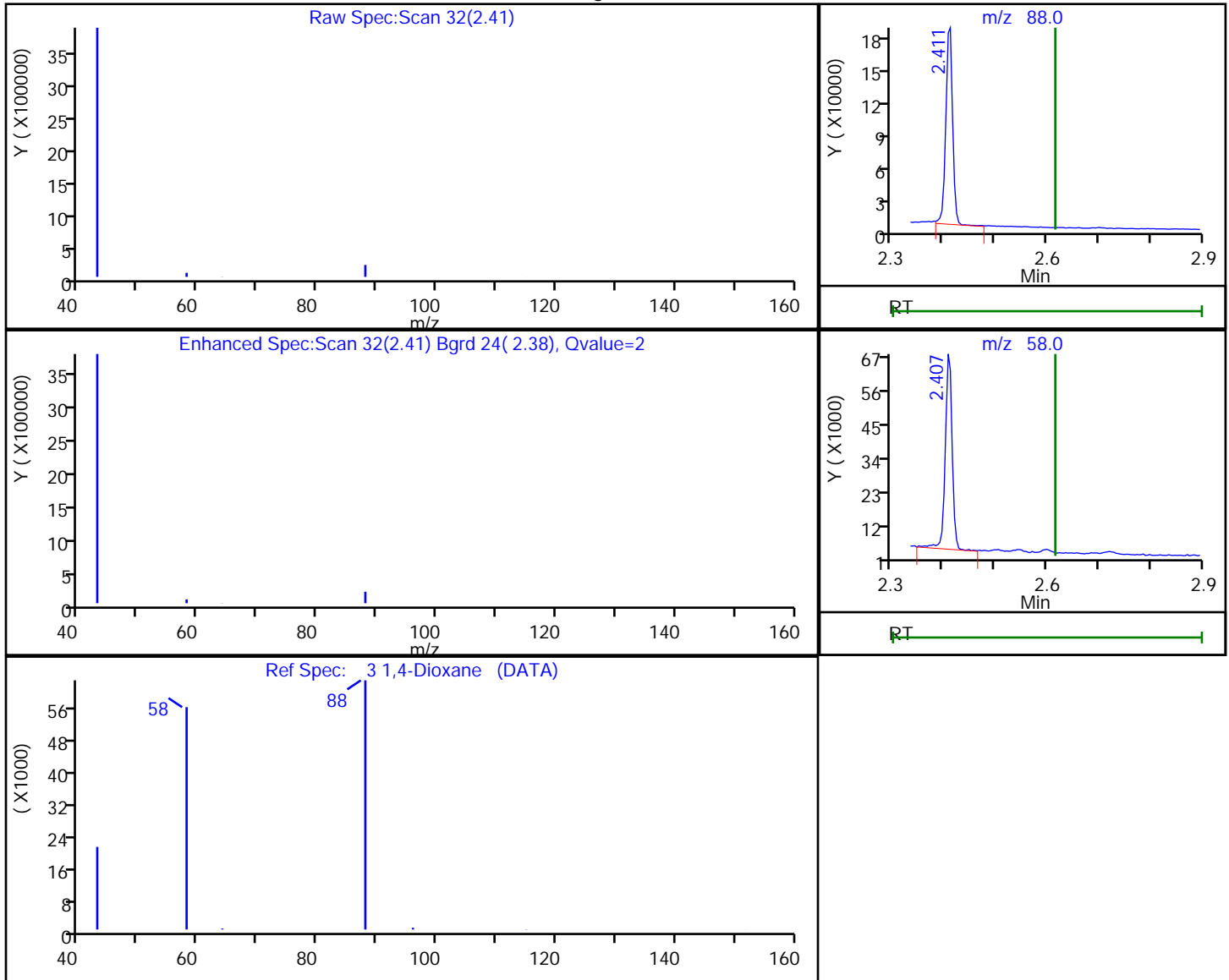


Euofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151407.D  
 Injection Date: 19-Jul-2019 04:56:30 Instrument ID: HP5973U  
 Lims ID: 480-156213-A-17-A Lab Sample ID: 480-156213-17  
 Client ID: 356023-MW1B  
 Operator ID: bs ALS Bottle#: 44 Worklist Smp#: 14  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
 Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
2.41	88.00	160271	8.055226
2.41	58.00	59029	

Reviewer: schickr, 21-Jul-2019 13:38:53

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5R Lab Sample ID: 480-156213-18  
 Matrix: Water Lab File ID: U33151435.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/12/2019 11:10  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/21/2019 20:38  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 5  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482965 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	6.1	E	1.0	0.50

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	37		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151435.D  
 Lims ID: 480-156213-A-18-A  
 Client ID: 356023-MW5R  
 Sample Type: Client  
 Inject. Date: 21-Jul-2019 20:38:30 ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 1.0 ul Dil. Factor: 5.0000  
 Sample Info: 18  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 22-Jul-2019 13:37:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.599	2.575	0.024	93	34820	0.7462	37.3	
3 1,4-Dioxane	88	2.635	2.611	0.024	84	20825	1.22		E
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	97	404454	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151435.D

Injection Date: 21-Jul-2019 20:38:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-18-A

Lab Sample ID: 480-156213-18

Worklist Smp#: 18

Client ID: 356023-MW5R

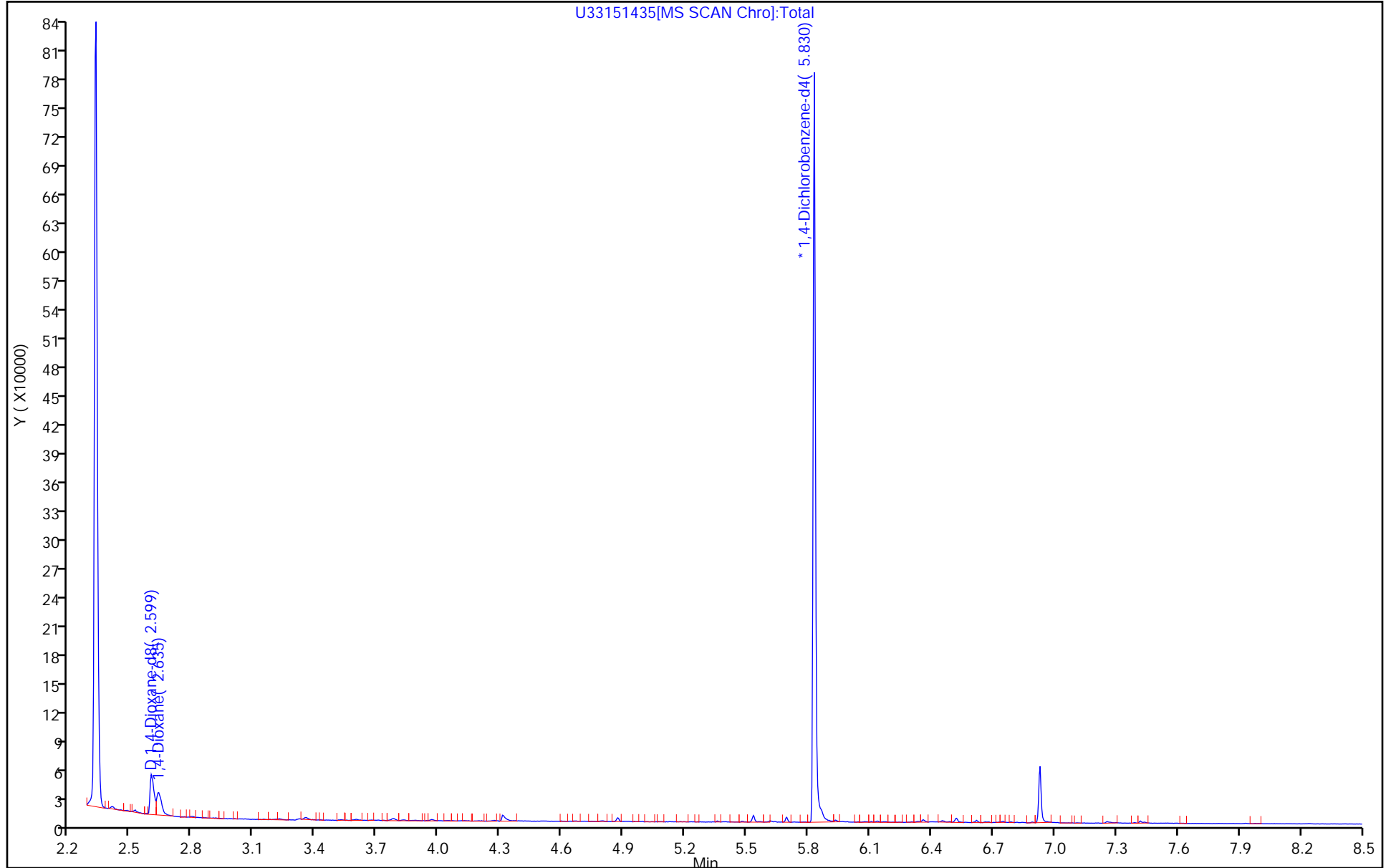
Injection Vol: 1.0 ul

Dil. Factor: 5.0000

ALS Bottle#: 18

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151435.D

Injection Date: 21-Jul-2019 20:38:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-18-A

Lab Sample ID: 480-156213-18

Client ID: 356023-MW5R

Operator ID: bs

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

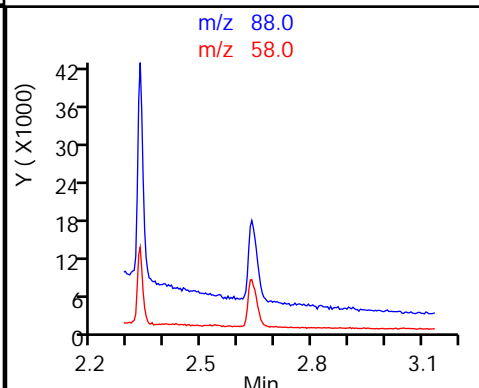
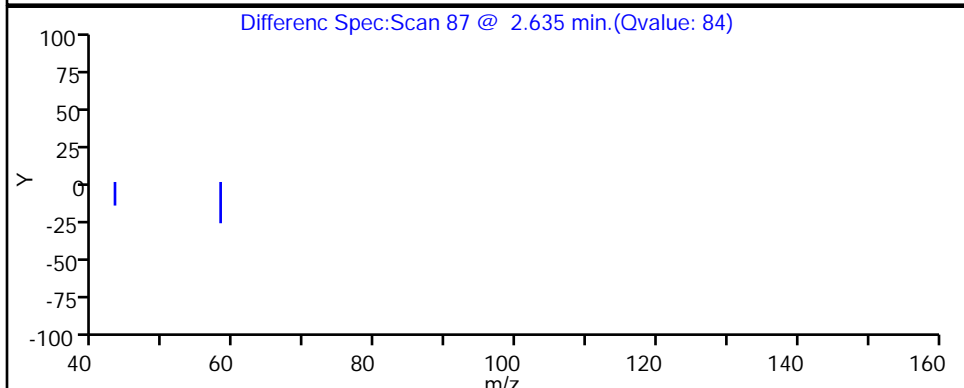
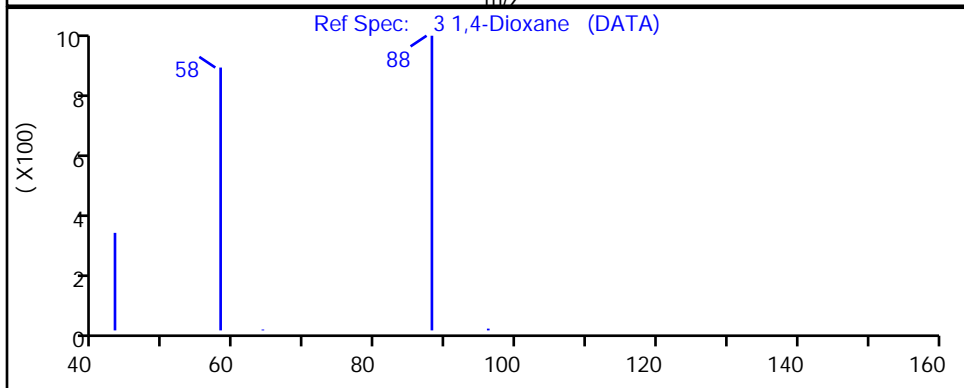
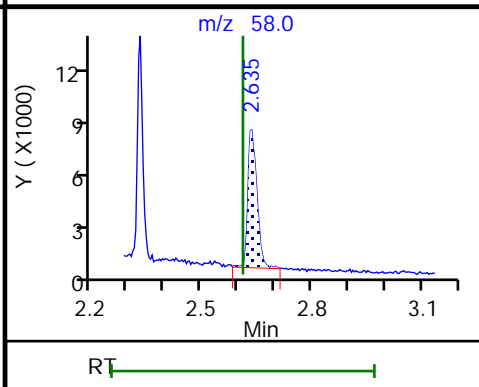
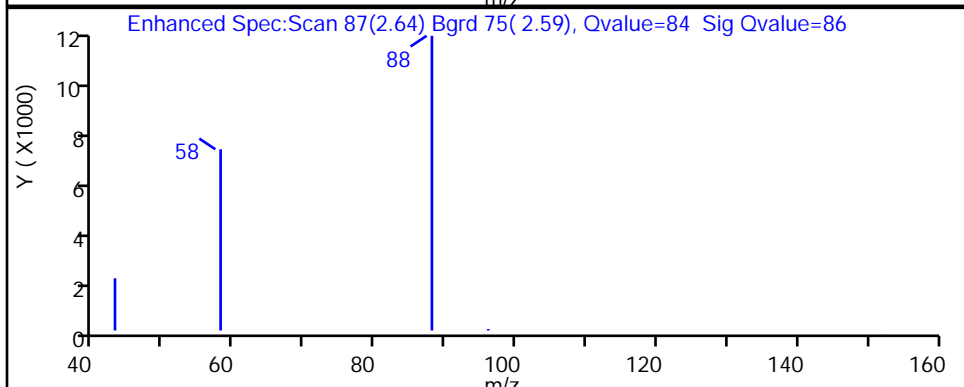
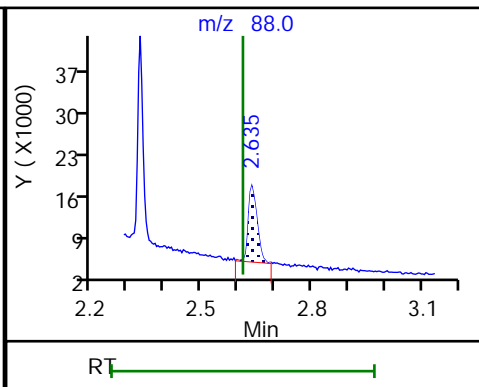
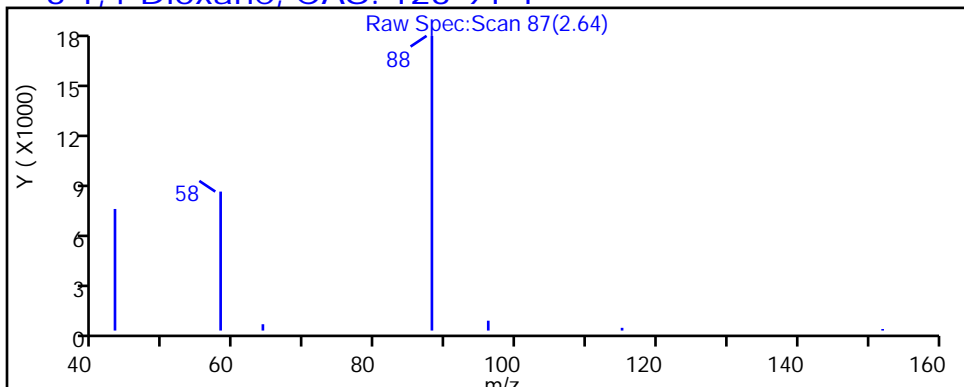
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151435.D

Injection Date: 21-Jul-2019 20:38:30

Instrument ID: HP5973U

Lims ID: 480-156213-A-18-A

Lab Sample ID: 480-156213-18

Client ID: 356023-MW5R

Operator ID: bs

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

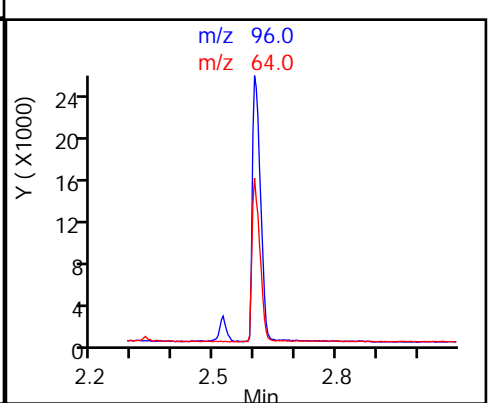
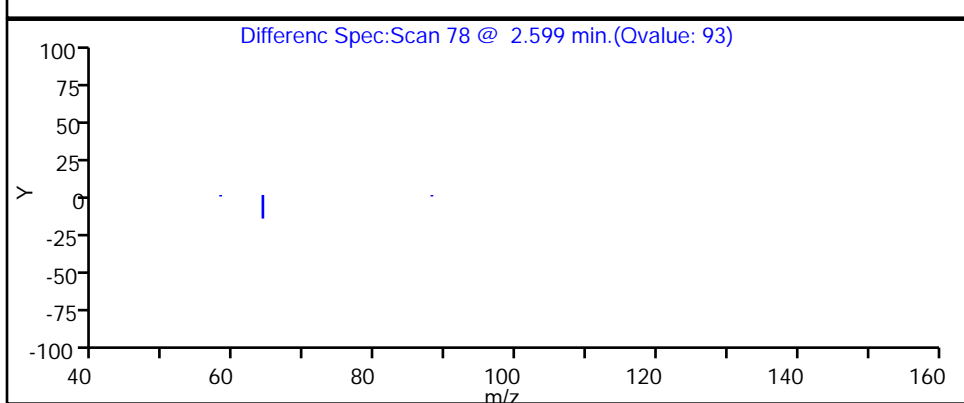
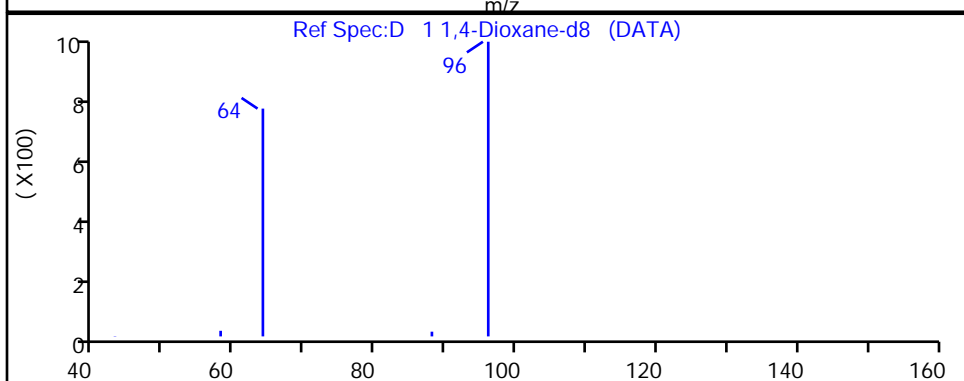
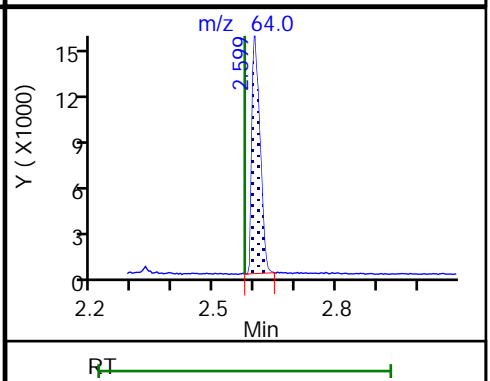
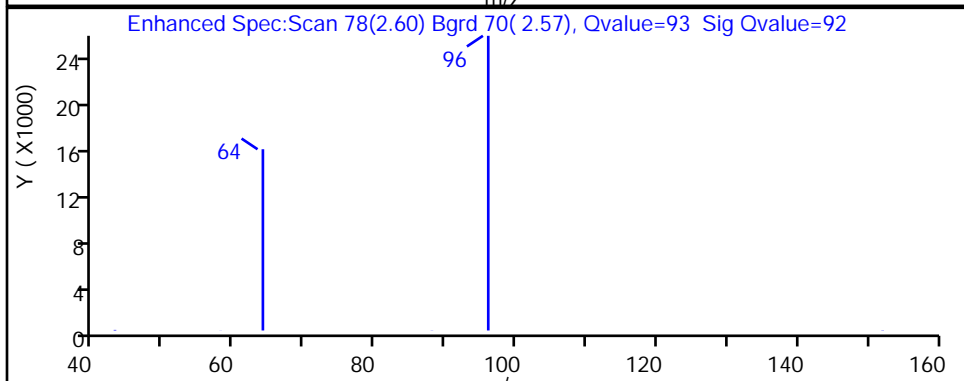
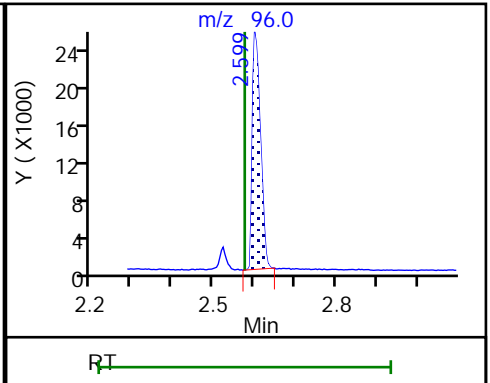
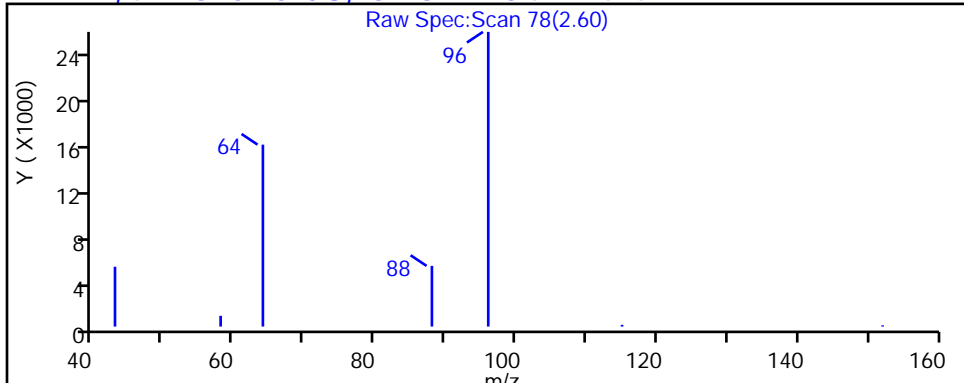
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4





FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW7R Lab Sample ID: 480-156213-19  
 Matrix: Water Lab File ID: U33151409.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/12/2019 11:30  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/19/2019 05:43  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482665 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	2.3	E	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	41		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151409.D  
 Lims ID: 480-156213-B-19-A  
 Client ID: 356023-MW7R  
 Sample Type: Client  
 Inject. Date: 19-Jul-2019 05:43:30 ALS Bottle#: 46 Worklist Smp#: 16  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 46  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:45 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:39:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.656	2.574	0.082	89	202382	4.13	41.3	
3 1,4-Dioxane	88	2.693	2.615	0.077	86	45009	2.26		E
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	97	424529	4.00		

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151409.D

Injection Date: 19-Jul-2019 05:43:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-19-A

Lab Sample ID: 480-156213-19

Worklist Smp#: 16

Client ID: 356023-MW7R

Injection Vol: 1.0 ul

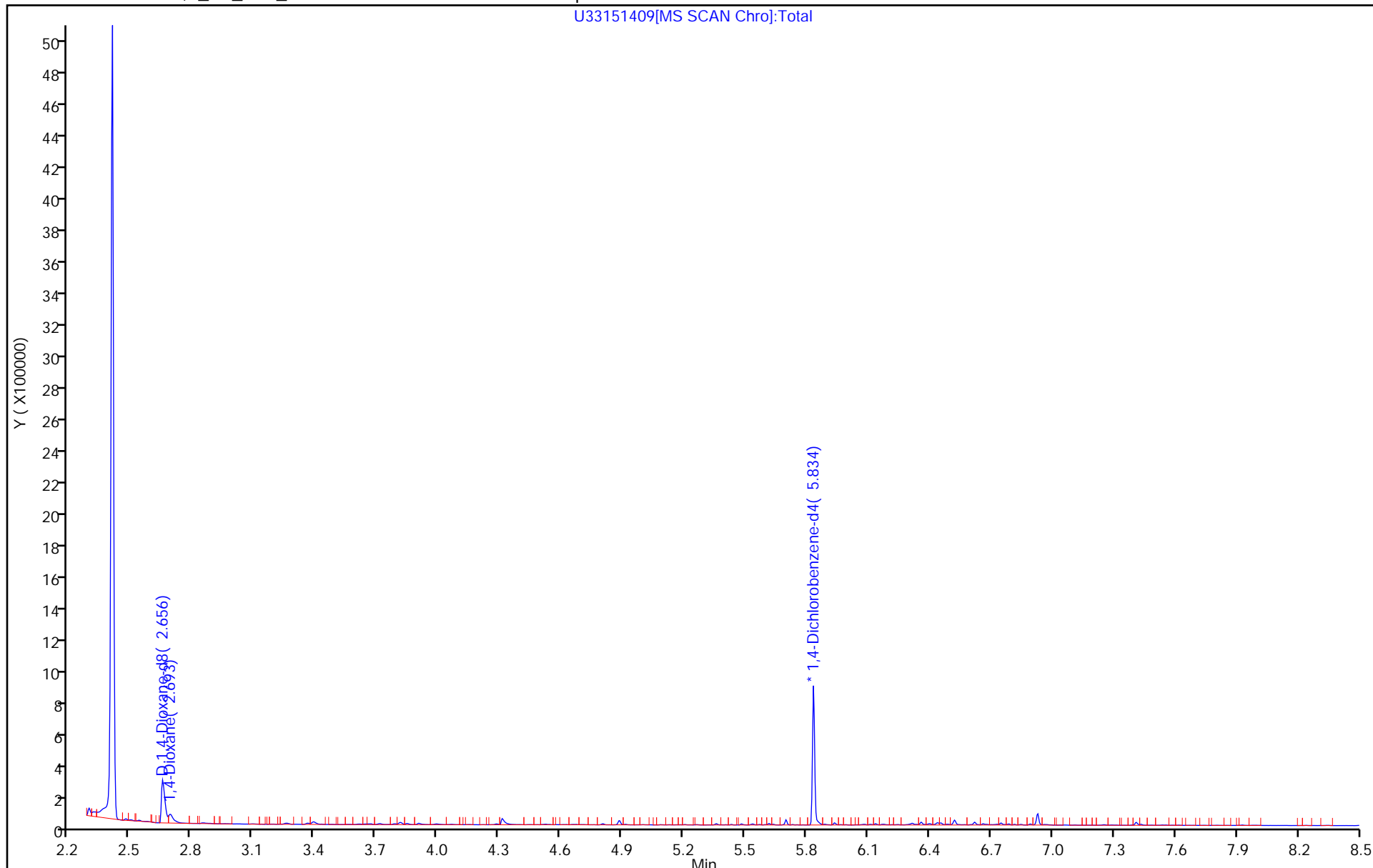
Dil. Factor: 1.0000

ALS Bottle#: 46

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

U33151409[MS SCAN Chrom]:Total



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151409.D

Injection Date: 19-Jul-2019 05:43:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-19-A

Lab Sample ID: 480-156213-19

Client ID: 356023-MW7R

Operator ID: bs

ALS Bottle#: 46

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

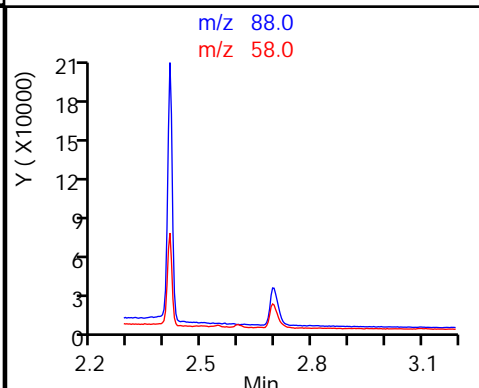
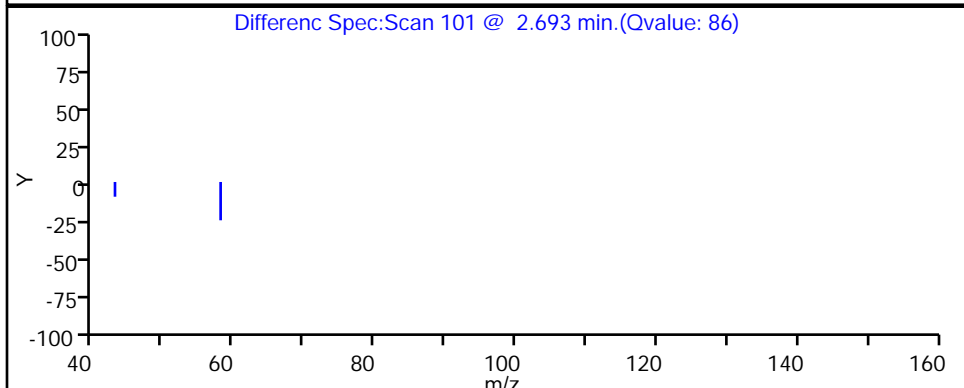
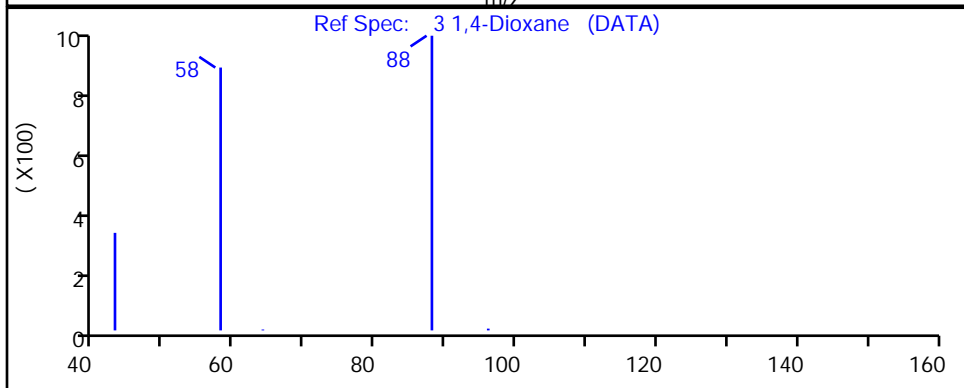
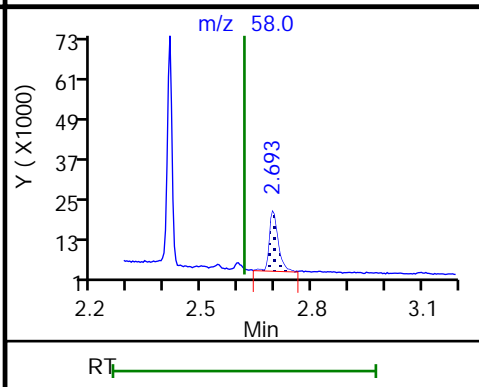
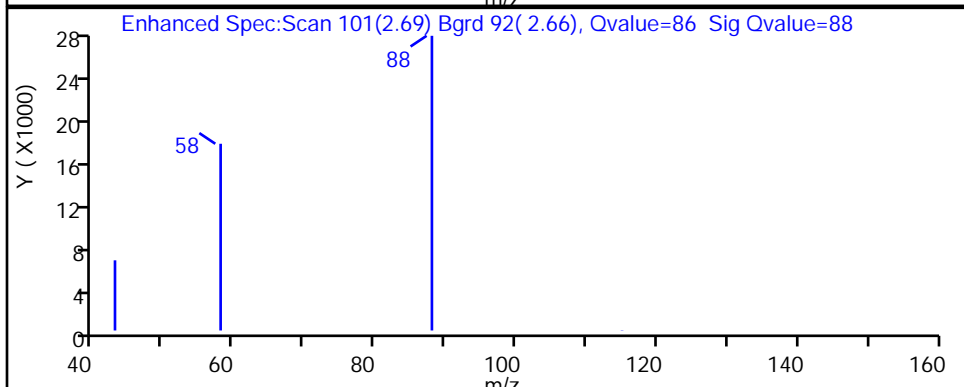
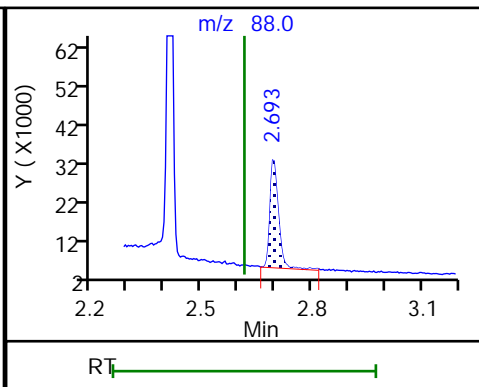
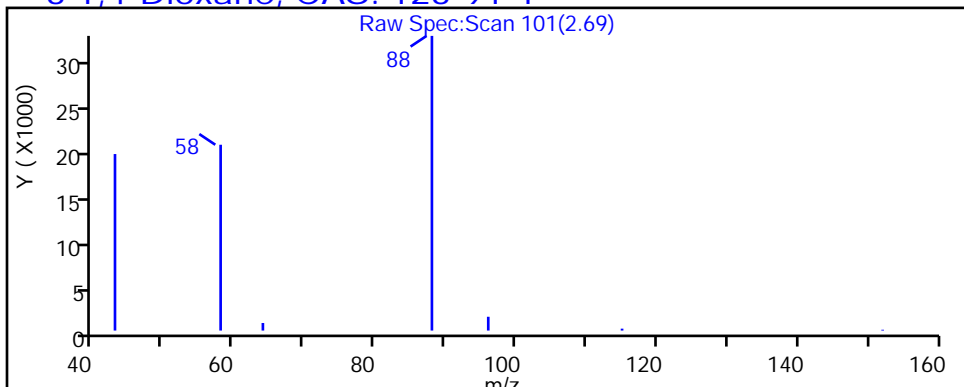
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151409.D

Injection Date: 19-Jul-2019 05:43:30

Instrument ID: HP5973U

Lims ID: 480-156213-B-19-A

Lab Sample ID: 480-156213-19

Client ID: 356023-MW7R

Operator ID: bs

ALS Bottle#: 46

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

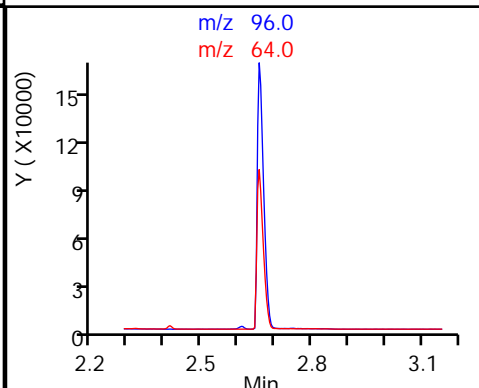
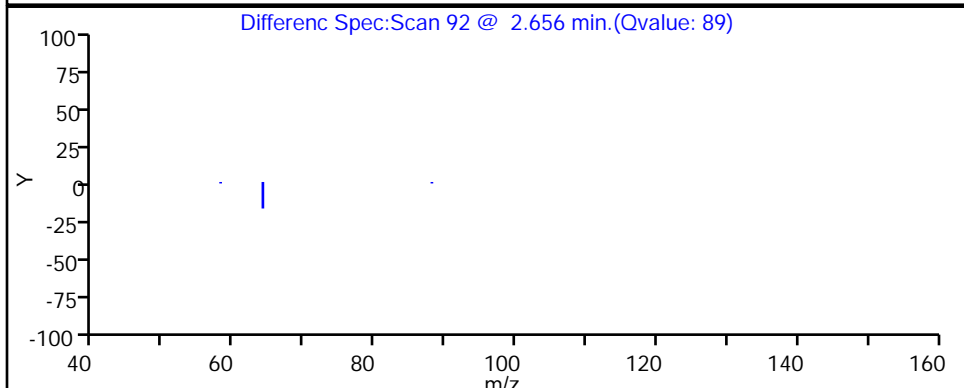
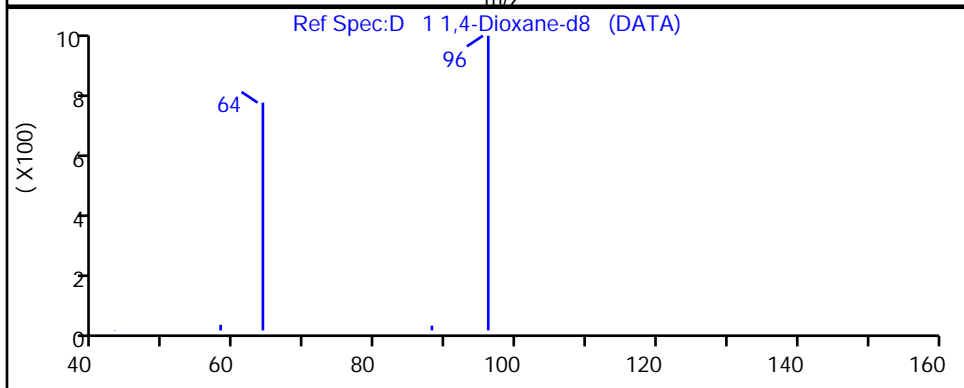
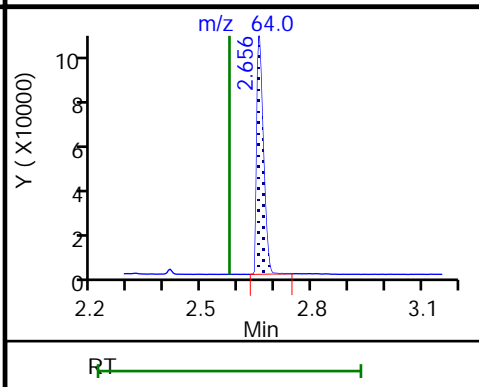
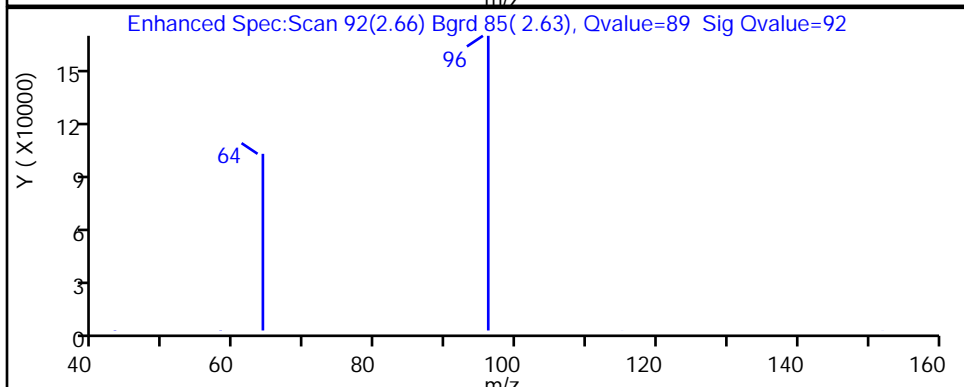
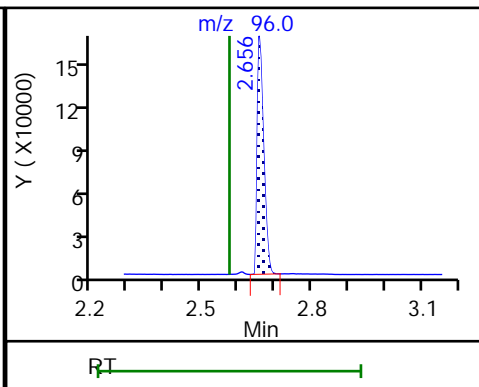
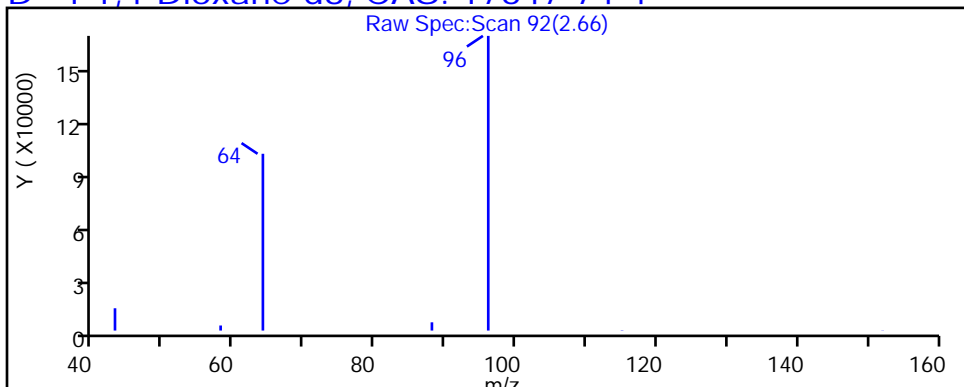
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 480789

SDG No.: \_\_\_\_\_

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/03/2019 14:45 Calibration End Date: 07/03/2019 16:46 Calibration ID: 37196

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-480789/3	U33151152.D
Level 2	IC 480-480789/4	U33151153.D
Level 3	ICIS 480-480789/5	U33151154.D
Level 4	IC 480-480789/6	U33151155.D
Level 5	IC 480-480789/7	U33151156.D
Level 6	IC 480-480789/8	U33151157.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	1.0022 0.9793	0.9832	0.9554	0.9884	0.9838	AveID		0.9820			0.0100	1.6		20.0			
1,4-Dioxane-d8	0.4472 0.4656	0.4564	0.4700	0.4644	0.4653	Ave		0.4615			0.0100	1.8		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1 Analy Batch No.: 480789

SDG No.: \_\_\_\_\_

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/03/2019 14:45 Calibration End Date: 07/03/2019 16:46 Calibration ID: 37196

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-480789/3	U33151152.D
Level 2	IC 480-480789/4	U33151153.D
Level 3	ICIS 480-480789/5	U33151154.D
Level 4	IC 480-480789/6	U33151155.D
Level 5	IC 480-480789/7	U33151156.D
Level 6	IC 480-480789/8	U33151157.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane		AveID	8054 46881	16307	22392	31896	39349	0.200 1.20	0.400	0.600	0.800	1.00
1,4-Dioxane-d8	DCBd 4	Ave	80367 478715	165862	234379	322719	399959	2.00 12.0	4.00	6.00	8.00	10.0

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151152.D  
 Lims ID: IC - SIM - 0.2  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 03-Jul-2019 14:45:30 ALS Bottle#: 93 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0082400-003  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 04-Jul-2019 11:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1011

First Level Reviewer: schickr Date: 04-Jul-2019 11:35:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.570	2.566	0.004	92	80367	2.00	1.94	
3 1,4-Dioxane	88	2.611	2.607	0.004	88	8054	0.2000	0.2041	M
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.834	0.000	96	359392	4.00	4.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB\_1,4SIM\_WRK\_00072 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00168 Amount Added: 20.00 Units: uL Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151152.D

Injection Date: 03-Jul-2019 14:45:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: IC - SIM - 0.2

Worklist Smp#: 3

Client ID:

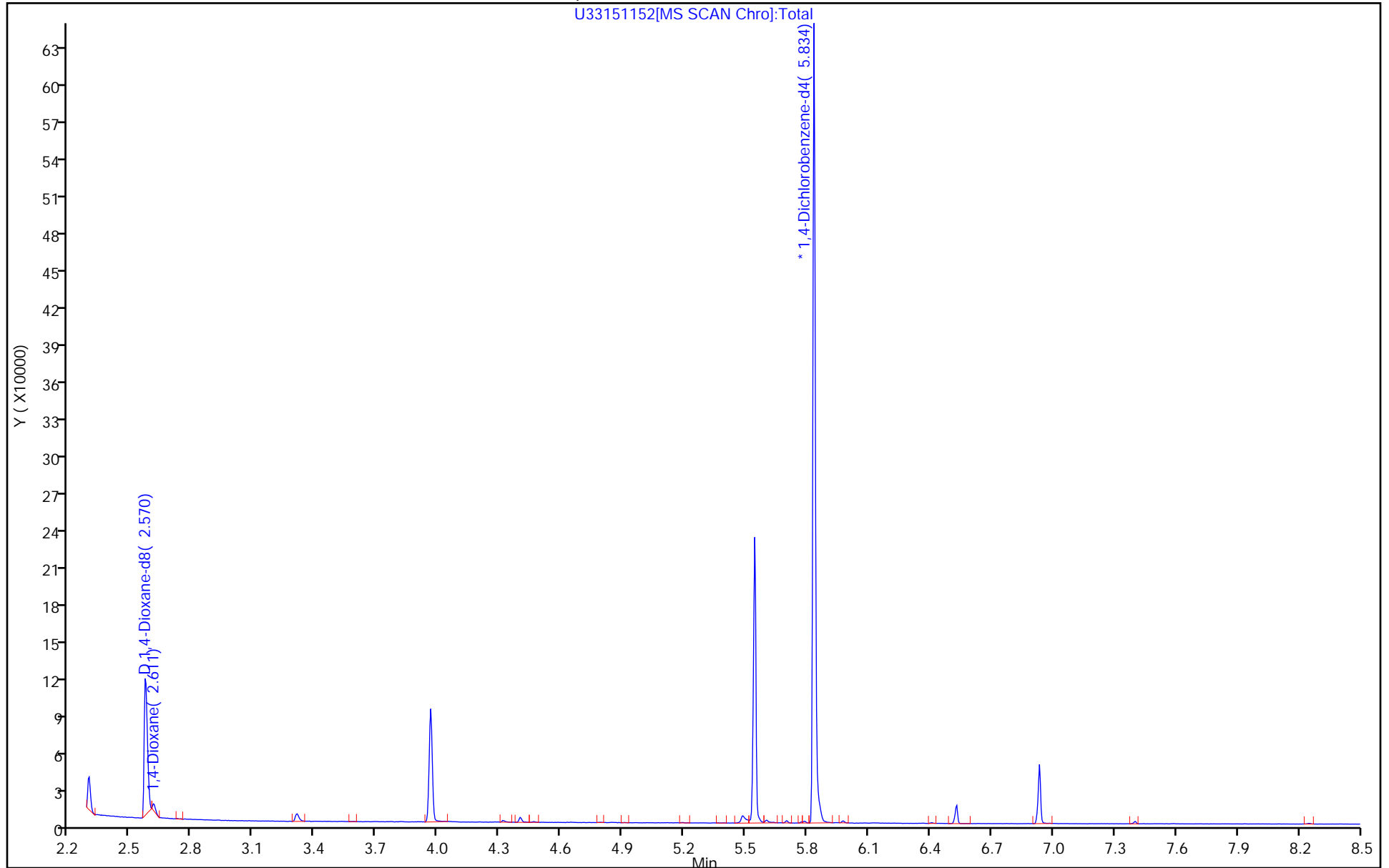
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 93

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Euofins TestAmerica, Buffalo

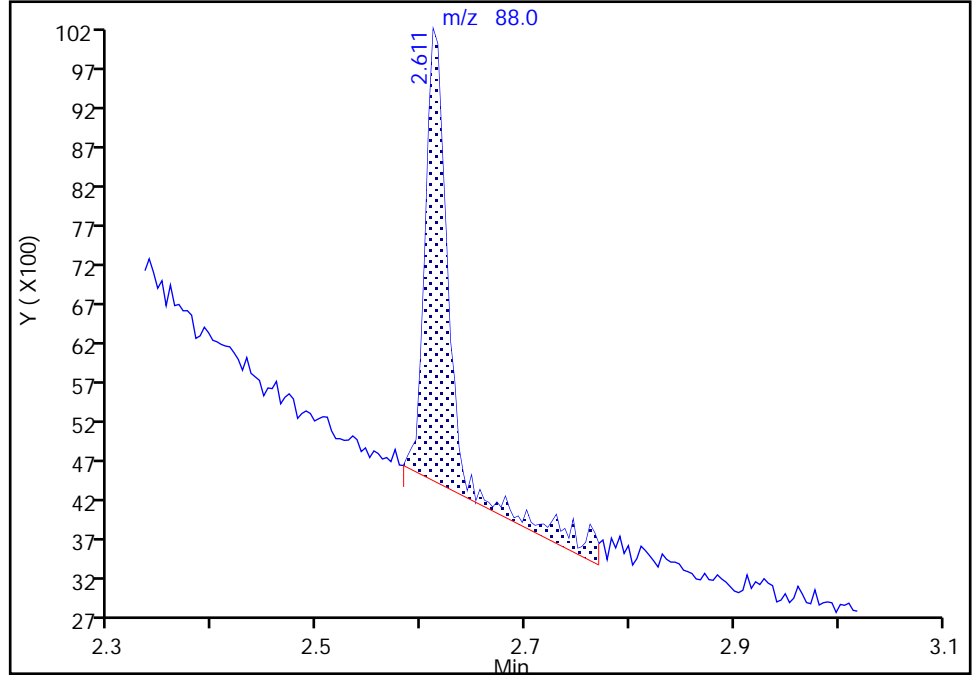
Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151152.D  
Injection Date: 03-Jul-2019 14:45:30 Instrument ID: HP5973U  
Lims ID: IC - SIM - 0.2  
Client ID:  
Operator ID: bs ALS Bottle#: 93 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

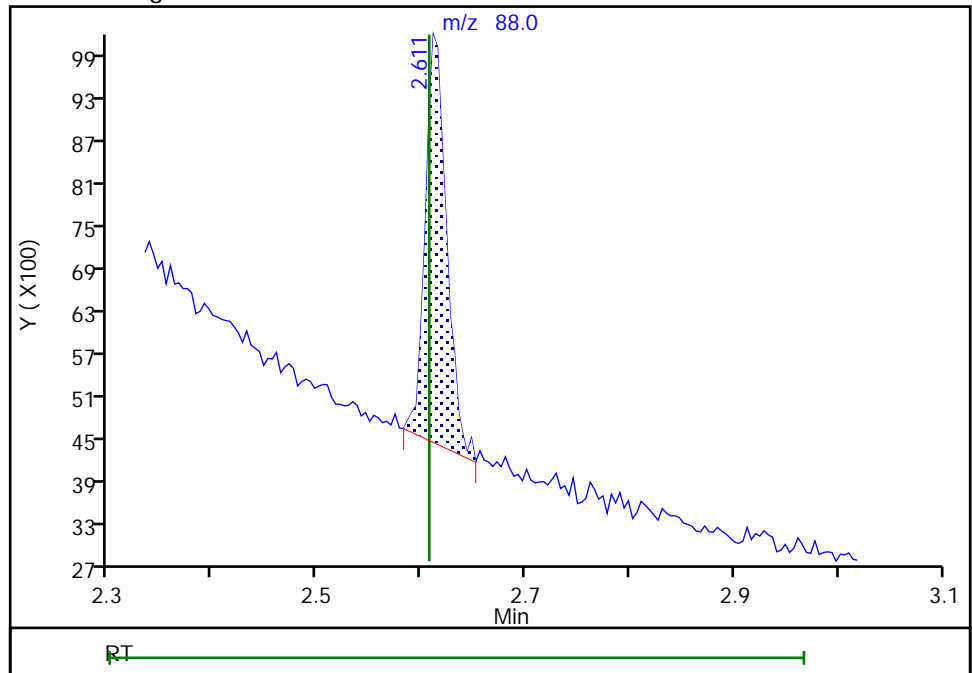
RT: 2.61  
Area: 9238  
Amount: 0.224027  
Amount Units: ng/ul

Processing Integration Results



RT: 2.61  
Area: 8054  
Amount: 0.204098  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 04-Jul-2019 11:35:54  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151153.D  
 Lims ID: IC - SIM - 0.4  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 03-Jul-2019 15:09:30 ALS Bottle#: 94 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0082400-004  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 04-Jul-2019 11:37:41 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1011

First Level Reviewer: schickr Date: 04-Jul-2019 11:36:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.570	2.566	0.004	94	165862	4.00	3.96	
3 1,4-Dioxane	88	2.611	2.607	0.004	87	16307	0.4000	0.4005	M
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.834	0.000	96	363378	4.00	4.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB\_1,4SIM\_WRK\_00073 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00168 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151153.D

Injection Date: 03-Jul-2019 15:09:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: IC - SIM - 0.4

Worklist Smp#: 4

Client ID:

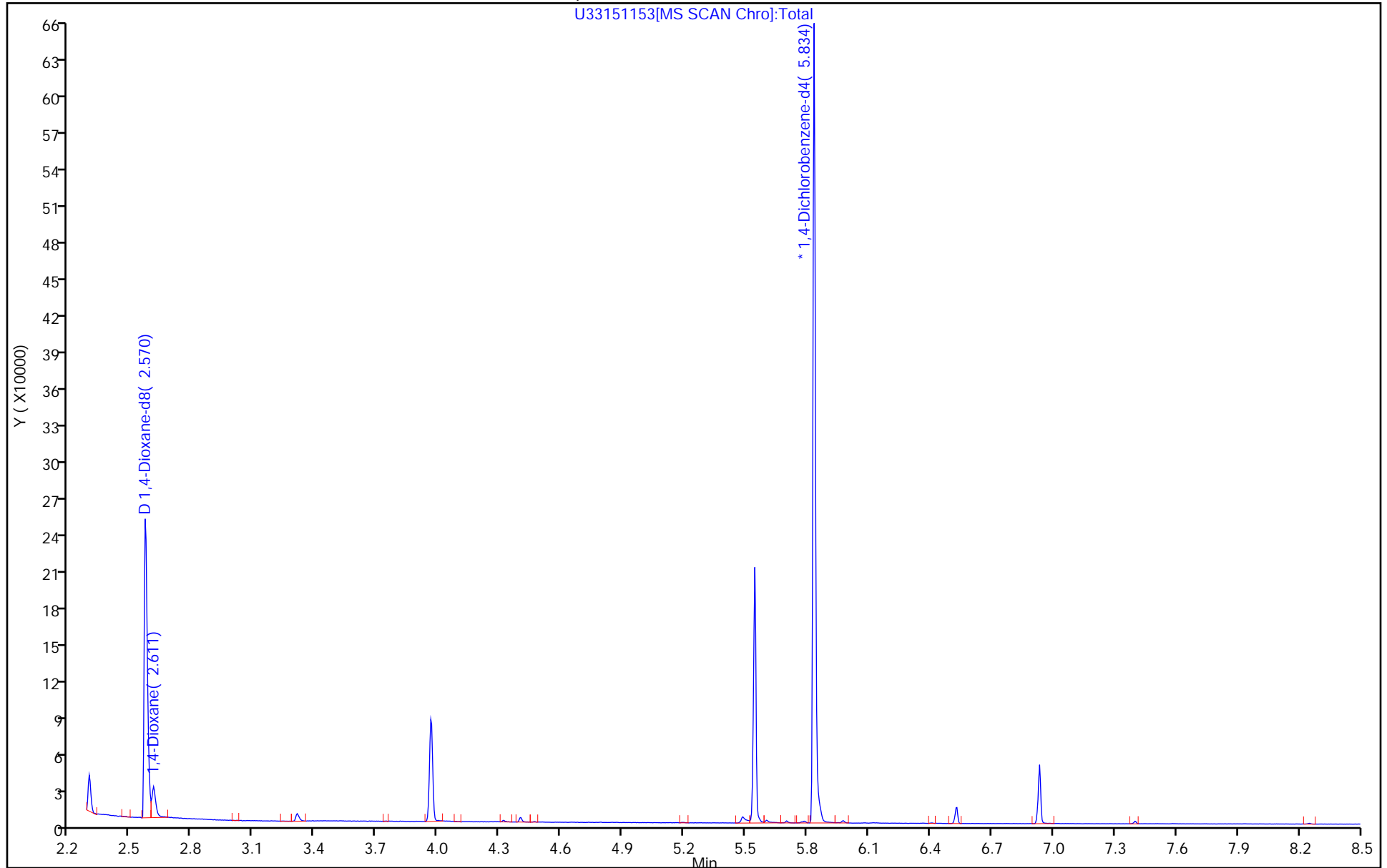
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 94

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

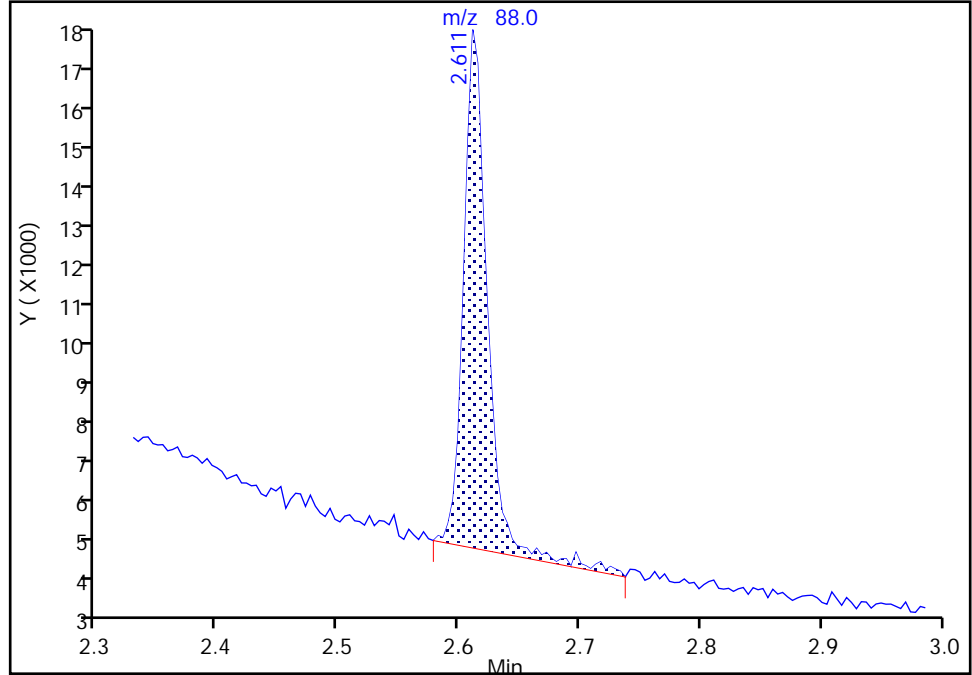
Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151153.D  
Injection Date: 03-Jul-2019 15:09:30 Instrument ID: HP5973U  
Lims ID: IC - SIM - 0.4  
Client ID:  
Operator ID: bs ALS Bottle#: 94 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

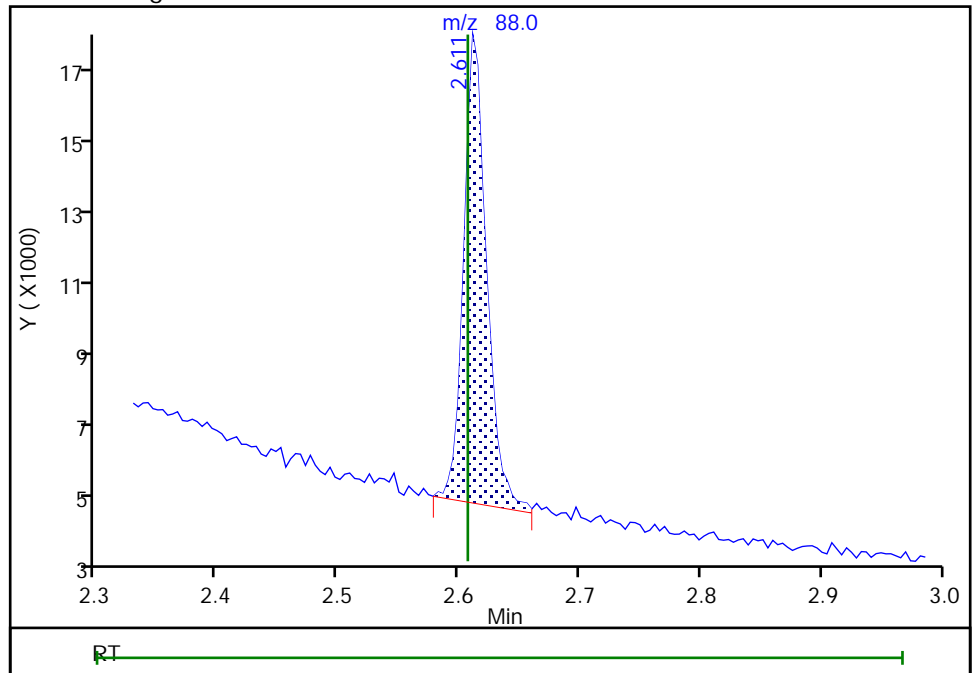
RT: 2.61  
Area: 16986  
Amount: 0.408970  
Amount Units: ng/ul

Processing Integration Results



RT: 2.61  
Area: 16307  
Amount: 0.400463  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 04-Jul-2019 11:36:04  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151154.D  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 3  
 Inject. Date: 03-Jul-2019 15:34:30 ALS Bottle#: 95 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0082400-005  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1

Method: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 04-Jul-2019 11:37:41 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1011

First Level Reviewer: schickr Date: 03-Jul-2019 16:07:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.566	2.566	0.000	90	234379	6.00	6.11	
3 1,4-Dioxane	88	2.607	2.607	0.000	85	22392	0.6000	0.5837	M
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.834	0.000	96	332481	4.00	4.00	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

MB\_1,4SIM\_WRK\_00074 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00168 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151154.D

Injection Date: 03-Jul-2019 15:34:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: ICIS

Worklist Smp#: 5

Client ID:

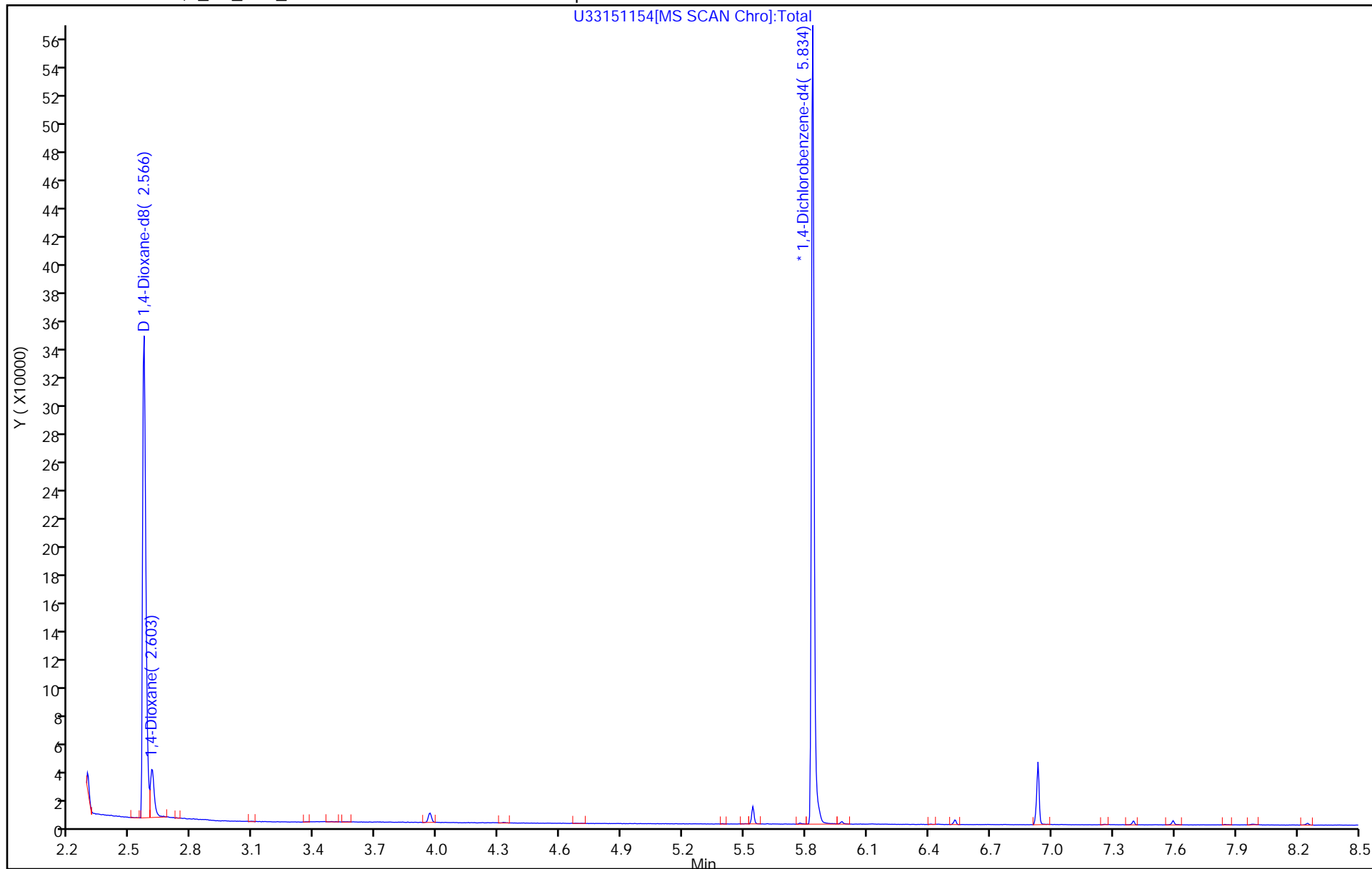
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 95

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

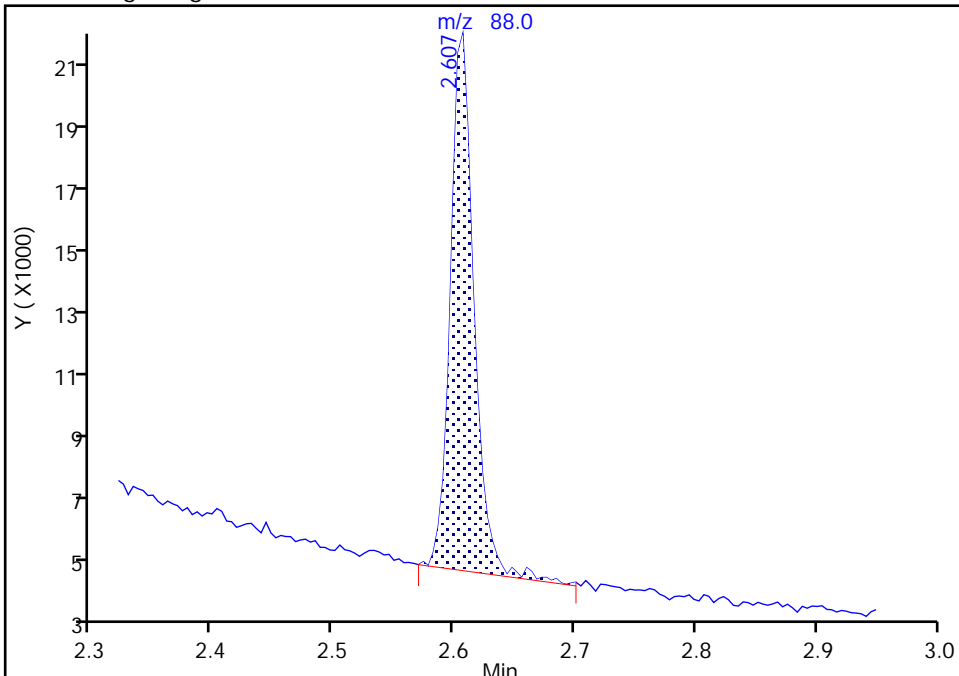
Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151154.D  
Injection Date: 03-Jul-2019 15:34:30 Instrument ID: HP5973U  
Lims ID: ICIS  
Client ID:  
Operator ID: bs ALS Bottle#: 95 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

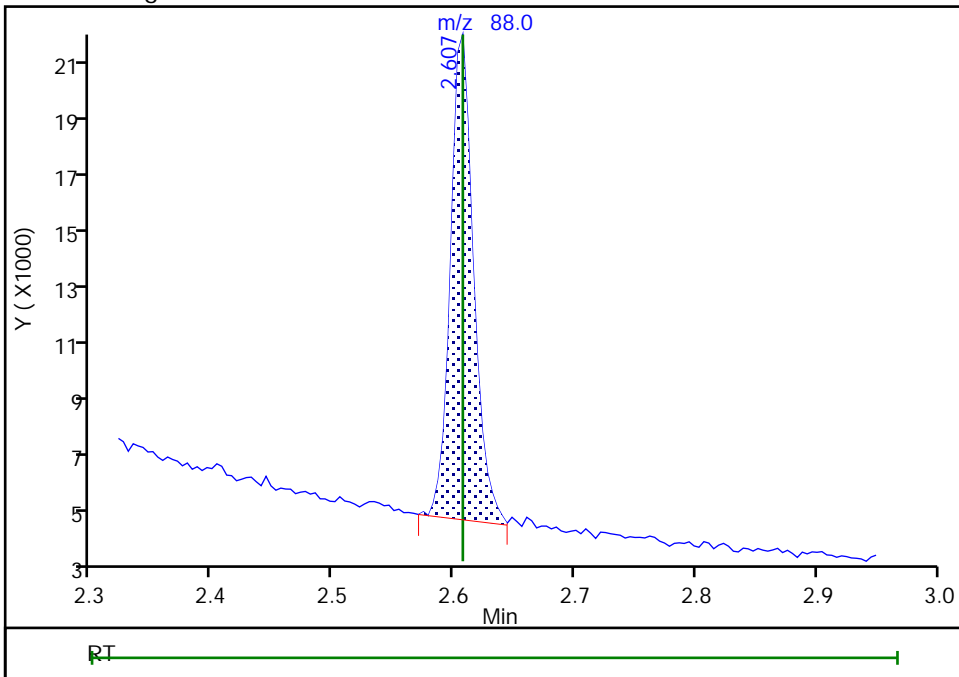
RT: 2.61  
Area: 22853  
Amount: 0.588073  
Amount Units: ng/ul

Processing Integration Results



RT: 2.61  
Area: 22392  
Amount: 0.583715  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 04-Jul-2019 11:36:14  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151155.D  
 Lims ID: IC - SIM - 0.8  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 03-Jul-2019 15:58:30 ALS Bottle#: 96 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0082400-006  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 04-Jul-2019 11:37:42 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1011

First Level Reviewer: schickr Date: 04-Jul-2019 11:36:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.570	2.566	0.004	90	322719	8.00	8.05	
3 1,4-Dioxane	88	2.611	2.607	0.004	86	31896	0.8000	0.8051	
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.834	0.000	96	347458	4.00	4.00	

Reagents:

MB\_1,4SIM\_WRK\_00075 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00168 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151155.D

Injection Date: 03-Jul-2019 15:58:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: IC - SIM - 0.8

Worklist Smp#: 6

Client ID:

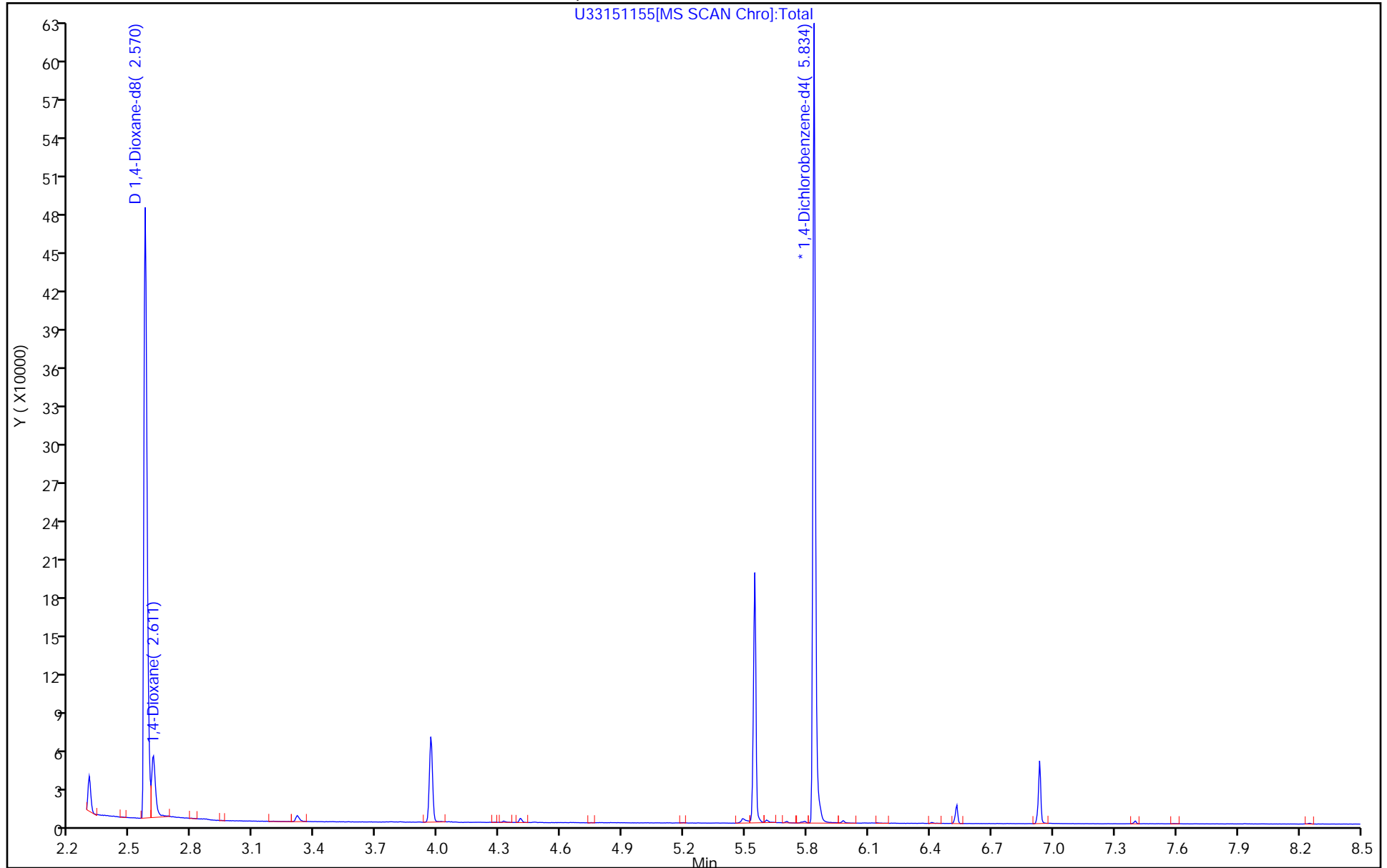
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 96

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151156.D  
 Lims ID: IC - SIM - 1.0  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 03-Jul-2019 16:23:30 ALS Bottle#: 97 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0082400-007  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 04-Jul-2019 11:37:43 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1011

First Level Reviewer: schickr Date: 04-Jul-2019 11:36:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.566	2.566	0.000	90	399959	10.0	10.1	
3 1,4-Dioxane	88	2.607	2.607	0.000	86	39349	1.00	1.00	M
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.834	0.000	96	343815	4.00	4.00	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB\_1,4SIM\_WRK\_00076 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00168 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151156.D

Injection Date: 03-Jul-2019 16:23:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: IC - SIM - 1.0

Worklist Smp#: 7

Client ID:

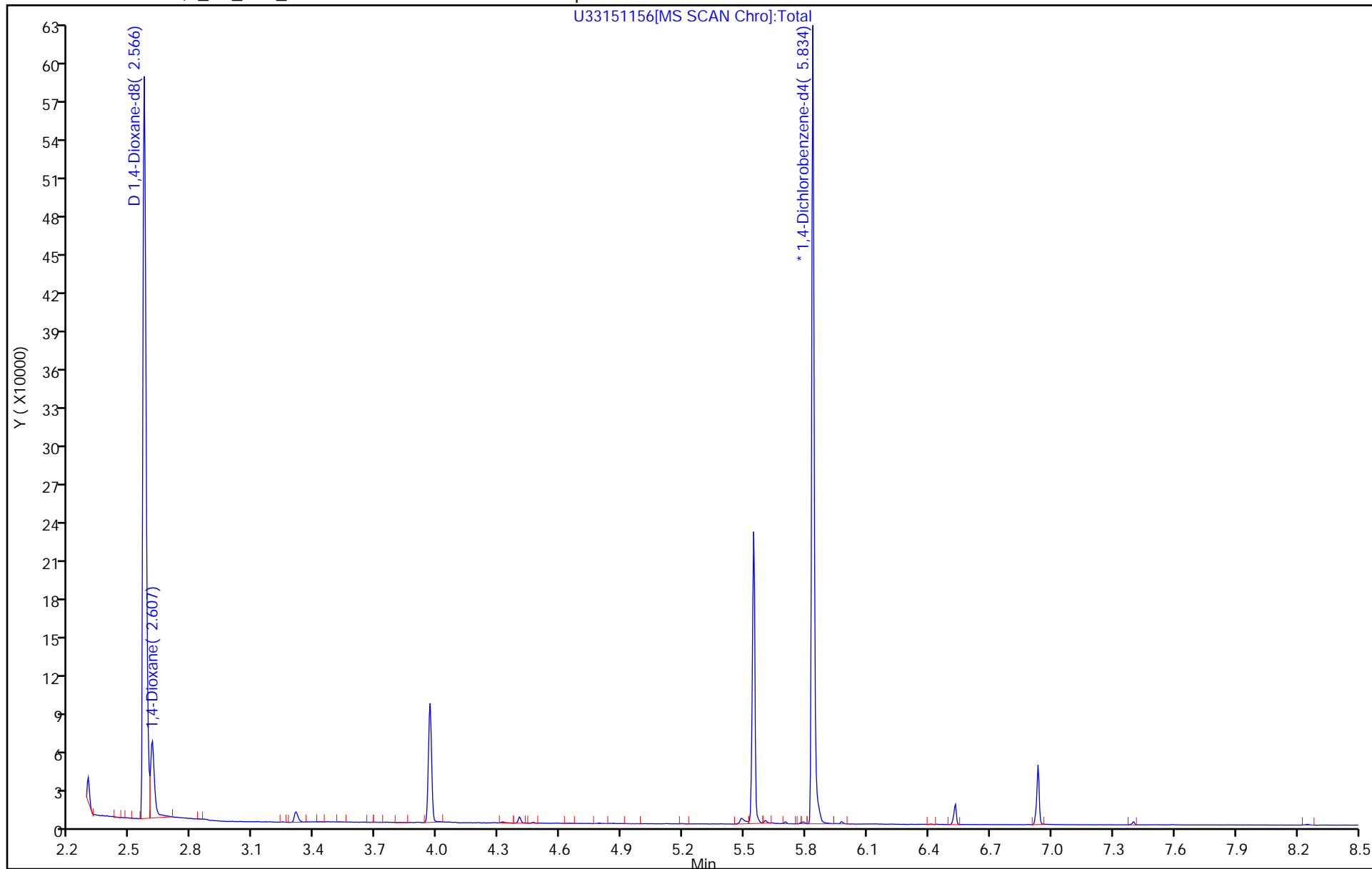
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 97

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

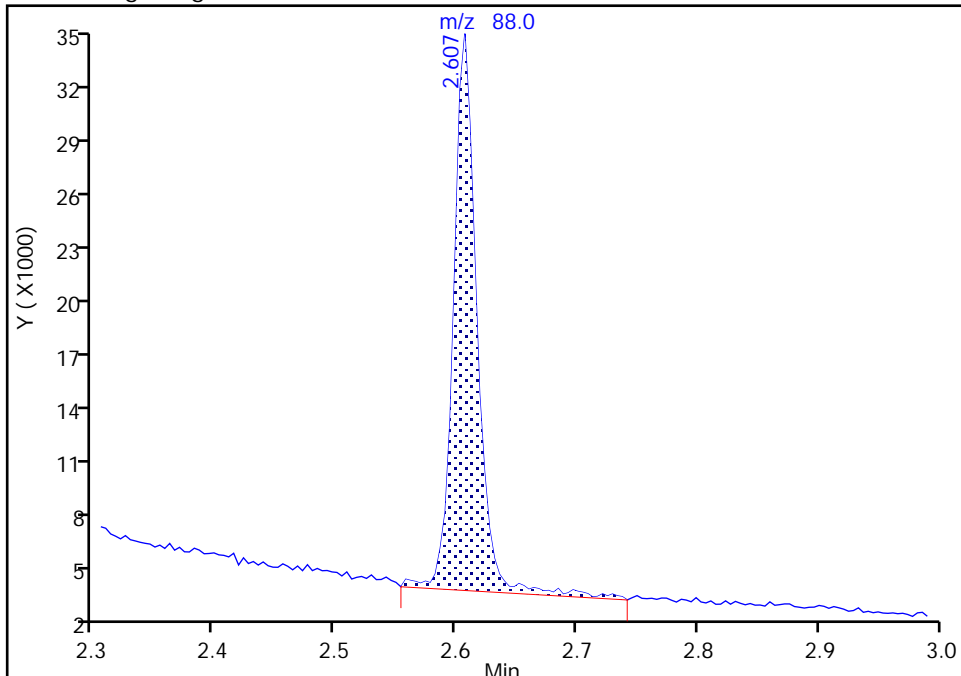
Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151156.D  
Injection Date: 03-Jul-2019 16:23:30 Instrument ID: HP5973U  
Lims ID: IC - SIM - 1.0  
Client ID:  
Operator ID: bs ALS Bottle#: 97 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

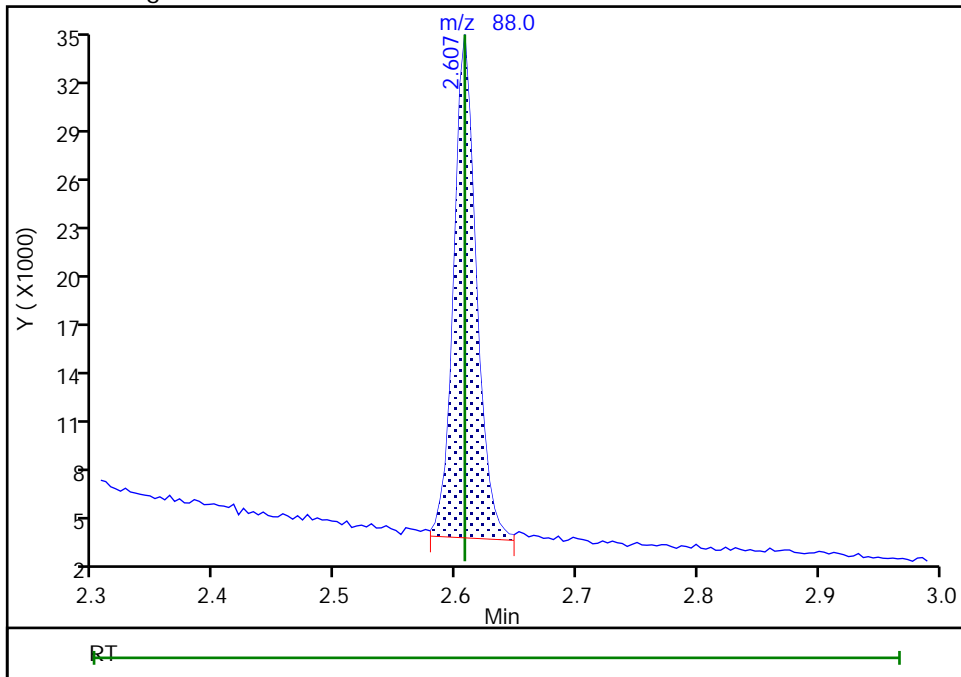
RT: 2.61  
Area: 41242  
Amount: 1.039953  
Amount Units: ng/ul

Processing Integration Results



RT: 2.61  
Area: 39349  
Amount: 1.001828  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 04-Jul-2019 11:36:29  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Lims ID: IC - SIM - 1.2  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 03-Jul-2019 16:46:30 ALS Bottle#: 98 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0082400-008  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1

Method: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 04-Jul-2019 11:37:43 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D

Column 1 : Det: MS SCAN  
 Process Host: CTX1011

First Level Reviewer: schickr Date: 04-Jul-2019 11:36:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.570	2.566	0.004	91	478715	12.0	12.1	
3 1,4-Dioxane	88	2.611	2.607	0.004	85	46881	1.20	1.20	M
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.834	0.000	95	342707	4.00	4.00	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

MB\_1,4SIM\_WRK\_00077 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00168 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D

Injection Date: 03-Jul-2019 16:46:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: IC - SIM - 1.2

Worklist Smp#: 8

Client ID:

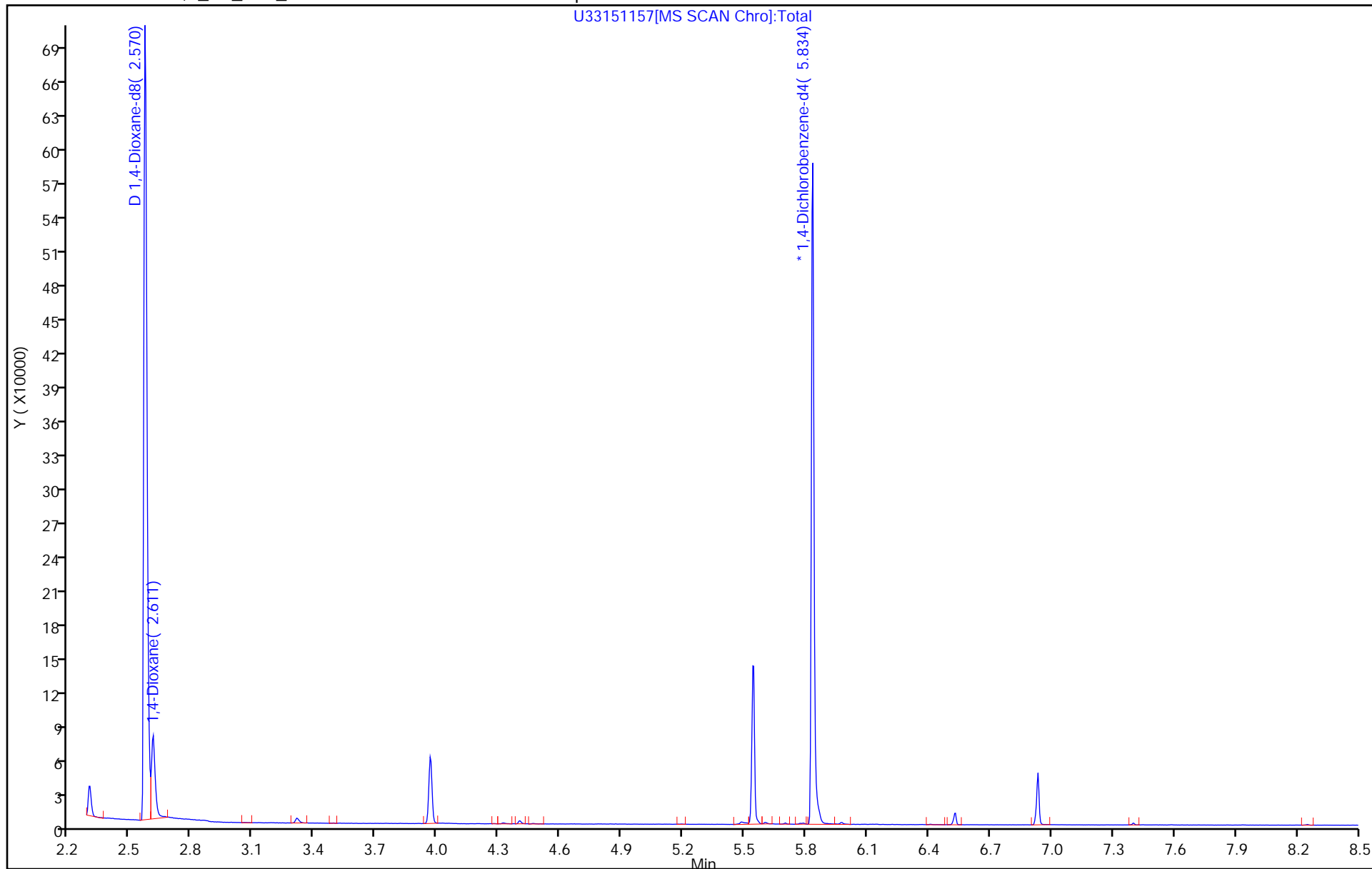
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 98

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

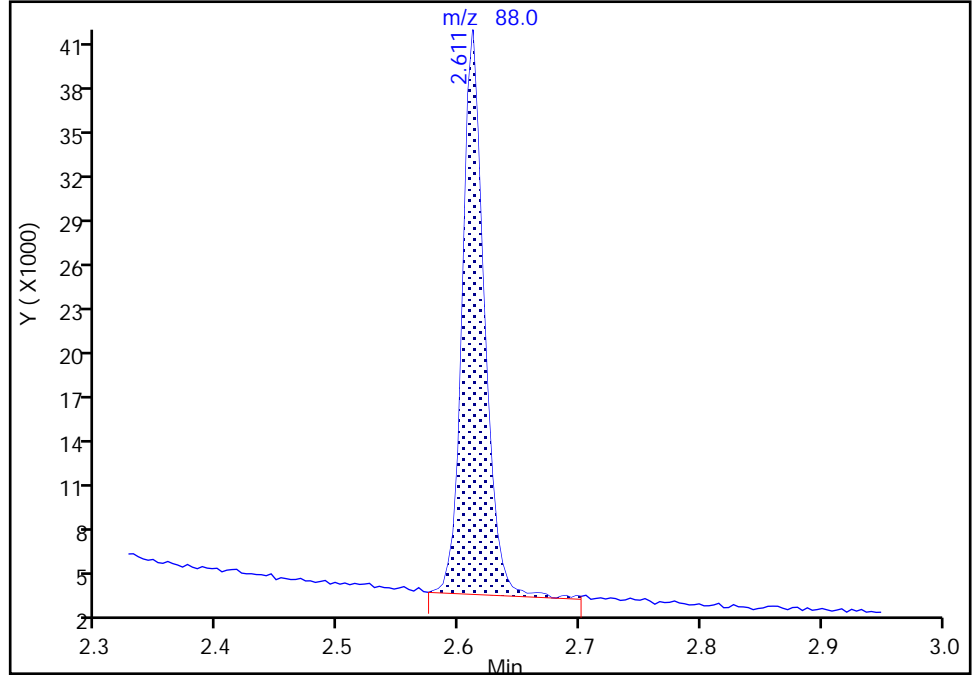
Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
Injection Date: 03-Jul-2019 16:46:30 Instrument ID: HP5973U  
Lims ID: IC - SIM - 1.2  
Client ID:  
Operator ID: bs ALS Bottle#: 98 Worklist Smp#: 8  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

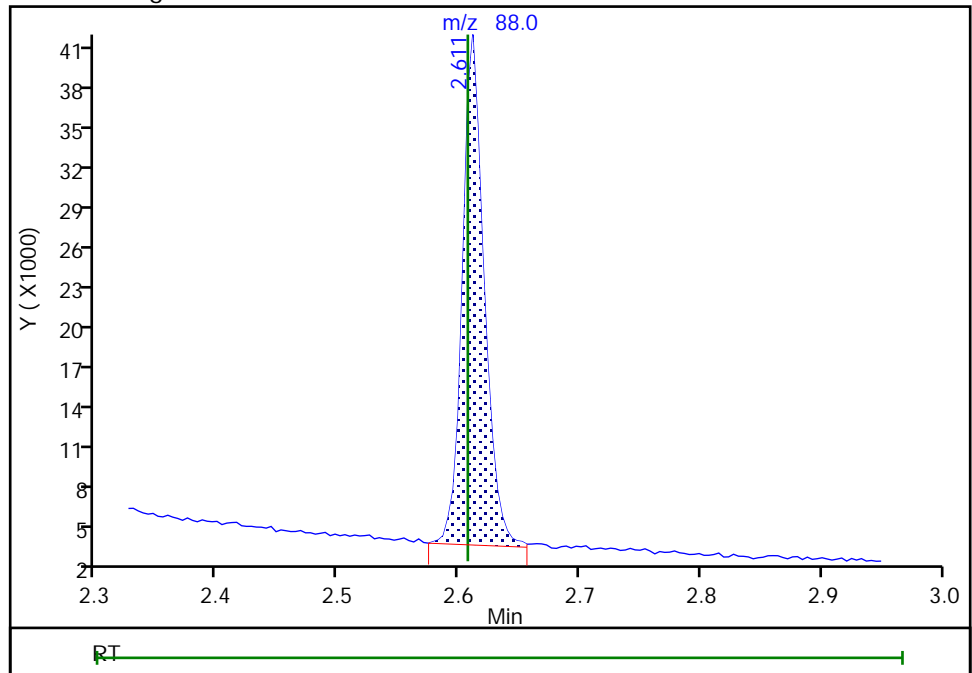
RT: 2.61  
Area: 47347  
Amount: 1.206576  
Amount Units: ng/ul

Processing Integration Results



RT: 2.61  
Area: 46881  
Amount: 1.196675  
Amount Units: ng/ul

Manual Integration Results



Reviewer: schickr, 04-Jul-2019 11:36:38  
Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-482664/3 Calibration Date: 07/18/2019 12:41  
 Instrument ID: HP5973U Calib Start Date: 07/03/2019 14:45  
 GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm) Calib End Date: 07/03/2019 16:46  
 Lab File ID: U33151366.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	0.9820	0.9874	0.0100	603	600	0.5	20.0
1,4-Dioxane-d8	Ave	0.4615	0.5214	0.0100	6780	6000	13.0	20.0

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151366.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 18-Jul-2019 12:41:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ccvis  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:58 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 18-Jul-2019 13:01:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.574	2.558	0.016	92	432954	6.00	6.78	
3 1,4-Dioxane	88	2.615	2.615	0.000	86	42749	0.6000	0.6033	
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	97	553552	4.00	4.00	

Reagents:

MB\_1,4SIM\_WRK\_00074 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151366.D

Injection Date: 18-Jul-2019 12:41:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

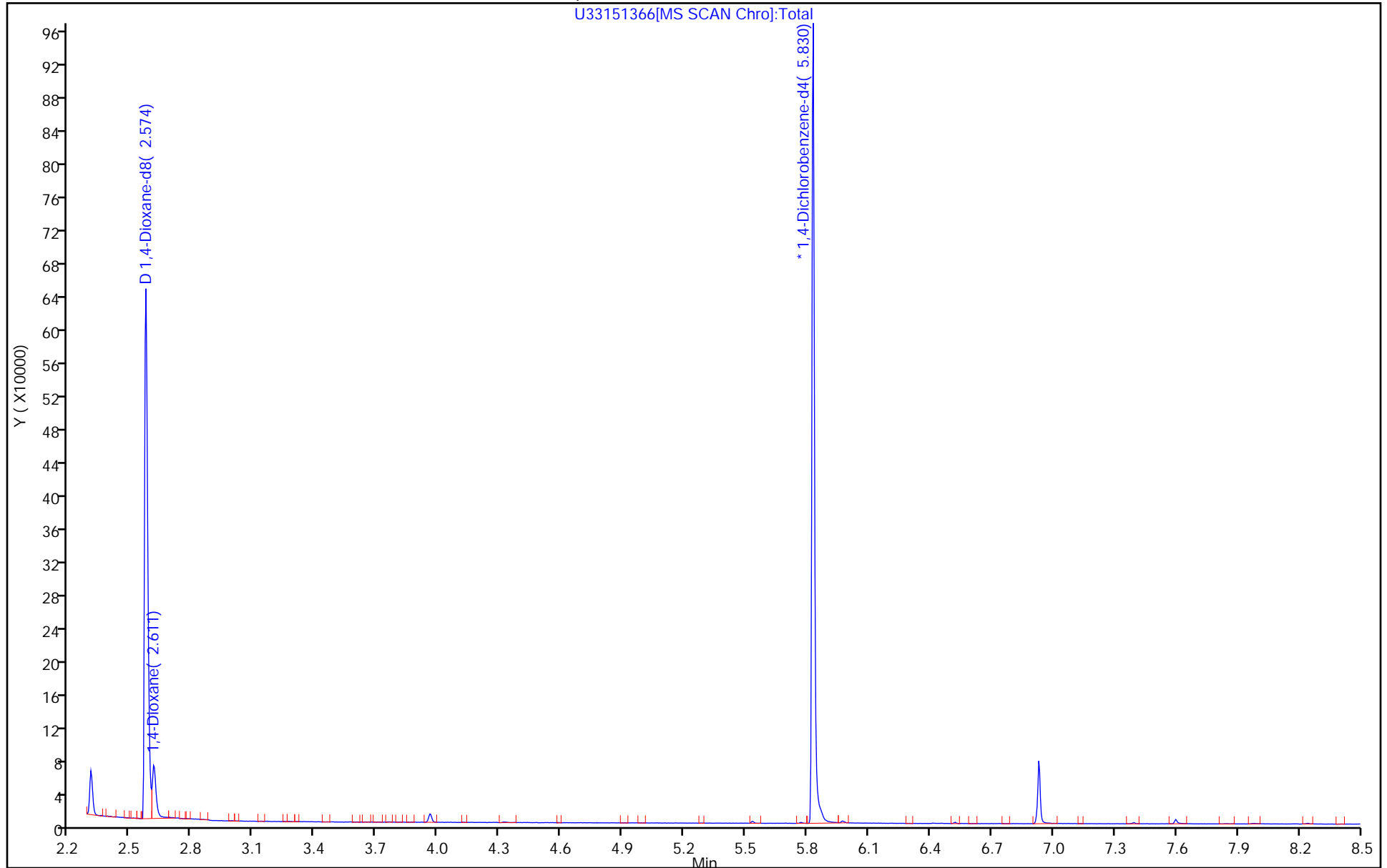
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-482665/3 Calibration Date: 07/19/2019 00:36  
 Instrument ID: HP5973U Calib Start Date: 07/03/2019 14:45  
 GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm) Calib End Date: 07/03/2019 16:46  
 Lab File ID: U33151396.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	0.9820	0.9800	0.0100	599	600	-0.2	20.0
1,4-Dioxane-d8	Ave	0.4615	0.5385	0.0100	7000	6000	16.7	20.0

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151396.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 19-Jul-2019 00:36:30 ALS Bottle#: 33 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 33  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:45 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:36:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.575	2.574	0.001	90	432014	6.00	7.00	
3 1,4-Dioxane	88	2.615	2.615	0.000	87	42337	0.6000	0.5988	
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	96	534890	4.00	4.00	

Reagents:

MB\_1,4SIM\_WRK\_00074 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151396.D

Injection Date: 19-Jul-2019 00:36:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

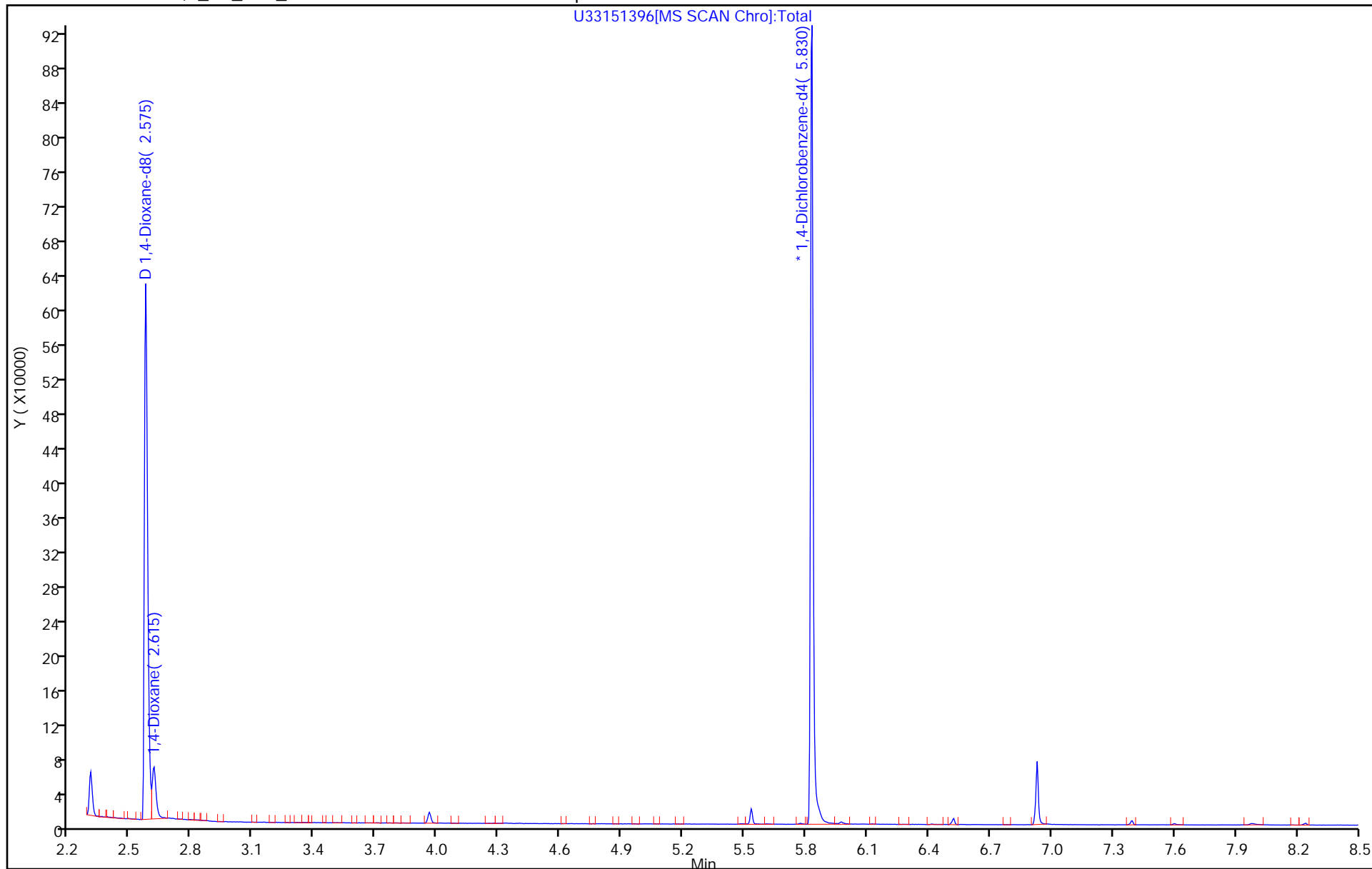
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 33

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-482965/3 Calibration Date: 07/21/2019 14:38  
 Instrument ID: HP5973U Calib Start Date: 07/03/2019 14:45  
 GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm) Calib End Date: 07/03/2019 16:46  
 Lab File ID: U33151420.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	0.9820	0.9682	0.0100	592	600	-1.4	20.0
1,4-Dioxane-d8	Ave	0.4615	0.5470	0.0100	7110	6000	18.5	20.0

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151420.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 21-Jul-2019 14:38:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: blank  
 Operator ID: bs Instrument ID: HP5973U  
 Sublist: chrom-1,4\_Dx\_SIM\_HP5973U\*sub1  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:40 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 21-Jul-2019 15:01:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.571	2.575	-0.005	90	402402	6.00	7.11	
3 1,4-Dioxane	88	2.611	2.611	0.000	87	38961	0.6000	0.5916	
* 2 1,4-Dichlorobenzene-d4	152	5.830	5.830	0.000	96	490415	4.00	4.00	

Reagents:

MB\_1,4SIM\_WRK\_00074 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00174 Amount Added: 20.00 Units: uL Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151420.D

Injection Date: 21-Jul-2019 14:38:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

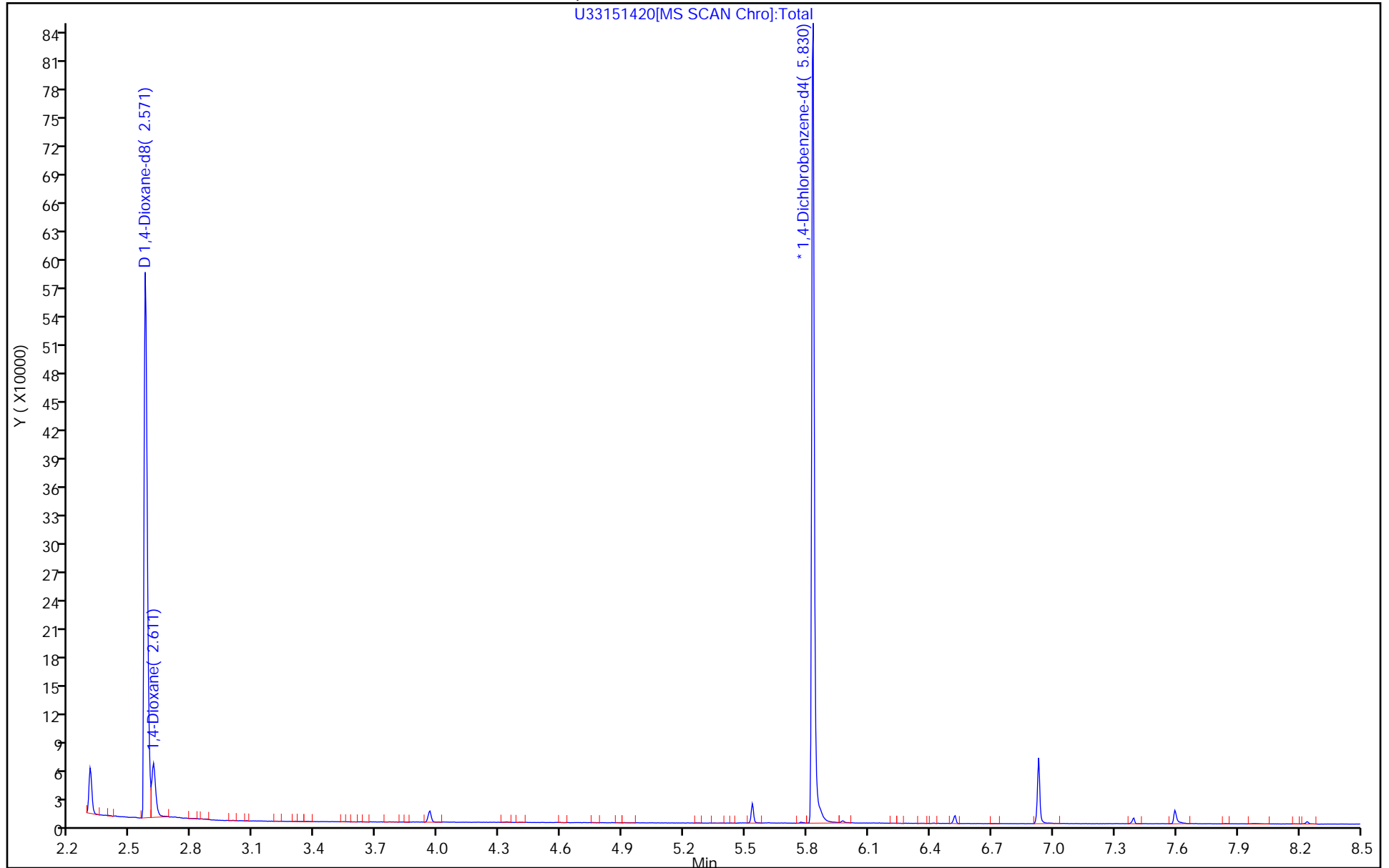
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151151.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 03-Jul-2019 14:17:30 ALS Bottle#: 92 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0082400-002  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 04-Jul-2019 11:37:39 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: Deconvolution ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1011

First Level Reviewer: schickr Date: 03-Jul-2019 14:53:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	10.908	10.908	0.000	0	4793			NR
5 4,4'-DDD	235	11.197	11.197	0.000	96	29498			NR
6 4,4'-DDT	235	11.469	11.469	0.000	98	1009177	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

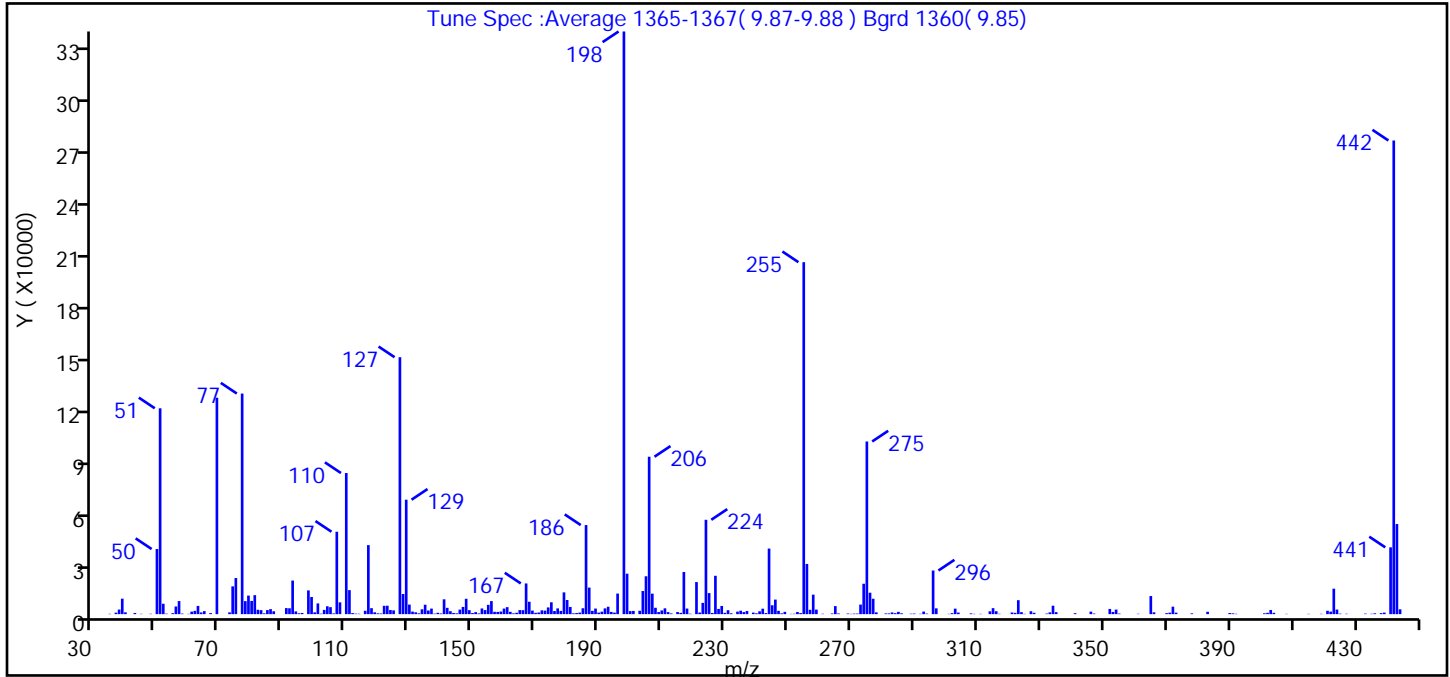
Reagents:

MB\_DFTPP\_WRK\_00357 Amount Added: 1.00 Units: mL

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151151.D  
 Injection Date: 03-Jul-2019 14:17:30 Instrument ID: HP5973U  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: bs ALS Bottle#: 92 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
 Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (123.0)
51	10-80% of the base peak	35.3
68	<2% of mass 69	0.0 (0.0)
69	Present	37.1
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	44.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.9
275	10-60% of the base peak	29.6
365	>1% of mass 198	3.1
441	present but <24% of mass 442	11.5 (14.1)
442	base peak, or >50% of 198	81.3
443	15-24% of mass 442	15.5 (19.0)

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151151.D\1,4\_Dx\_SIM\_HP5973U.rslt\spc  
Injection Date: 03-Jul-2019 14:17:30  
Spectrum: Tune Spec :Average 1365-1367( 9.87-9.88 ) Bgrd 1360( 9.85)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	192	129.00	65904	203.00	1944	289.00	244
37.00	858	130.00	5501	204.00	13320	290.00	333
38.00	2630	131.00	1472	205.00	21816	292.00	203
39.00	8910	132.00	1057	206.00	90656	293.00	1485
40.00	1050	133.00	475	207.00	11798	294.00	300
43.00	673	134.00	2793	208.00	3673	296.00	25128
45.00	177	135.00	5421	209.00	1209	297.00	3342
48.00	211	136.00	2088	210.00	2135	301.00	177
50.00	37496	137.00	3199	211.00	3353	302.00	571
51.00	118552	138.00	294	212.00	1179	303.00	3165
52.00	5993	139.00	775	213.00	408	304.00	899
53.00	262	140.00	404	215.00	1218	308.00	457
55.00	552	141.00	8547	216.00	720	309.00	169
56.00	4425	142.00	3637	217.00	24272	311.00	178
57.00	7528	143.00	1677	218.00	3208	314.00	1622
58.00	327	144.00	667	219.00	252	315.00	3442
60.00	169	145.00	456	221.00	18480	316.00	1689
61.00	1433	146.00	2603	222.00	937	317.00	207
62.00	1899	147.00	4156	223.00	6485	321.00	942
63.00	4738	148.00	8837	224.00	54336	322.00	735
64.00	980	149.00	2284	225.00	12137	323.00	8042
65.00	1739	150.00	634	226.00	683	324.00	1150
67.00	617	151.00	1172	227.00	22088	325.00	177
69.00	124632	152.00	418	228.00	3003	327.00	1675
73.00	1030	153.00	3269	229.00	4715	328.00	789
74.00	15998	154.00	2321	230.00	750	332.00	323
75.00	20792	155.00	5355	231.00	2264	333.00	1022
77.00	127040	156.00	7514	232.00	495	334.00	4848
78.00	7497	157.00	1353	234.00	1449	335.00	1157
79.00	10697	158.00	1291	235.00	1976	341.00	554
80.00	7619	159.00	1499	236.00	1203	346.00	1449
81.00	10943	160.00	3214	237.00	1803	347.00	350
82.00	2519	161.00	4037	239.00	896	352.00	2989

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151151.D\1\_4\_Dx\_SIM\_HP5973U.rsl\spc

Injection Date: 03-Jul-2019 14:17:30

Spectrum: Tune Spec :Average 1365-1367( 9.87-9.88 ) Bgrd 1360( 9.85)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	2302	162.00	1319	240.00	479	353.00	1272
84.00	451	163.00	456	241.00	1644	354.00	2624
85.00	2325	164.00	790	242.00	3138	355.00	325
86.00	2902	165.00	2345	243.00	620	361.00	212
87.00	1656	166.00	2293	244.00	37768	365.00	10425
91.00	3483	167.00	17680	245.00	5118	366.00	1053
92.00	3390	168.00	7142	246.00	8381	370.00	575
93.00	19344	169.00	2035	247.00	1902	371.00	842
94.00	1581	170.00	760	248.00	467	372.00	4298
95.00	487	171.00	944	249.00	1327	373.00	874
96.00	685	172.00	2175	251.00	170	378.00	458
98.00	13664	173.00	2045	252.00	223	383.00	1367
99.00	9885	174.00	3868	253.00	1253	390.00	622
100.00	1028	175.00	6833	254.00	621	391.00	449
101.00	6175	176.00	1792	255.00	202688	392.00	213
102.00	277	177.00	3308	256.00	28904	401.00	503
103.00	2449	178.00	1854	257.00	2499	402.00	764
104.00	4533	179.00	12532	258.00	11228	403.00	2403
105.00	4016	180.00	8140	259.00	2616	404.00	771
106.00	432	181.00	4138	261.00	214	408.00	173
107.00	47456	182.00	470	264.00	368	415.00	177
108.00	6790	183.00	638	265.00	4639	419.00	191
110.00	81272	184.00	891	266.00	389	421.00	1932
111.00	13832	185.00	3398	269.00	345	422.00	1460
112.00	604	186.00	51304	270.00	167	423.00	14665
113.00	285	187.00	15280	271.00	305	424.00	2644
114.00	217	188.00	1889	272.00	329	425.00	293
116.00	1945	189.00	3220	273.00	5506	427.00	223
117.00	39752	190.00	879	274.00	17504	433.00	308
118.00	3440	191.00	1417	275.00	99432	435.00	210
119.00	1044	192.00	3324	276.00	12350	436.00	491
120.00	460	193.00	4259	277.00	8861	438.00	609
121.00	380	194.00	1269	278.00	1036	439.00	893
122.00	4807	195.00	883	281.00	410	441.00	38472

Report Date: 04-Jul-2019 11:37:39

Chrom Revision: 2.3 20-Jun-2019 20:50:56

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151151.D\1,4\_Dx\_SIM\_HP5973U.rsl\sp

Injection Date: 03-Jul-2019 14:17:30

Spectrum: Tune Spec :Average 1365-1367( 9.87-9.88 ) Bgrd 1360( 9.85)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 286

m/z	Y	m/z	Y	m/z	Y	m/z	Y
123.00	4852	196.00	11858	282.00	421	442.00	272768
124.00	2370	198.00	335552	283.00	982	443.00	51896
125.00	2166	199.00	23296	284.00	571	444.00	2783
127.00	147968	200.00	1753	285.00	1328		
128.00	11599	201.00	1841	286.00	497		

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151151.D

Injection Date: 03-Jul-2019 14:17:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: bs

ALS Bottle#: 92

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

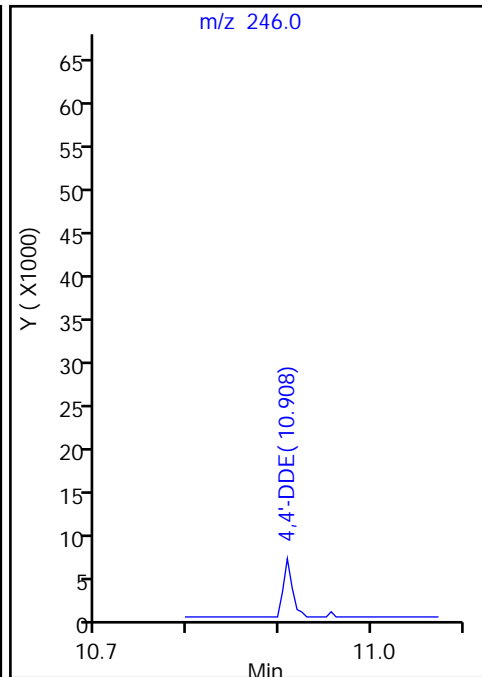
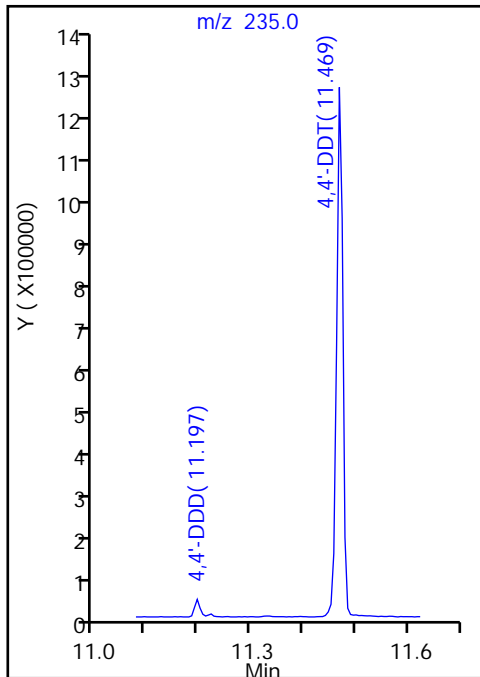
6 4,4'-DDT, Area = 1009177

5 4,4'-DDD, Area = 29498

7 4,4'-DDE, Area = 4793

%Breakdown: 3.29%, <= 20.00%

Passed



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151365.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 18-Jul-2019 12:13:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: dftpp  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:56 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: Deconvolution ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 18-Jul-2019 12:51:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	10.908	10.908	0.000	0	2650			NR
5 4,4'-DDD	235	11.197	11.197	0.000	1	4365			NR
6 4,4'-DDT	235	11.464	11.464	0.000	98	1758977	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

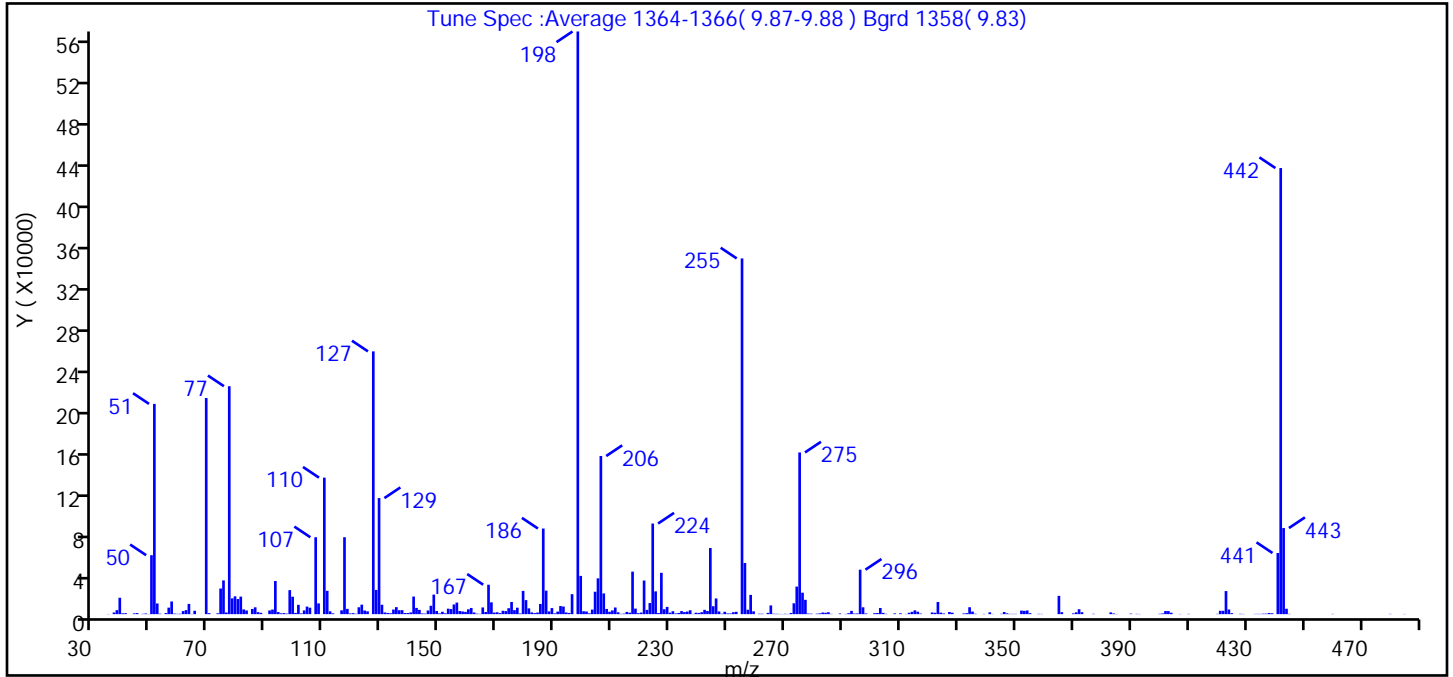
MB\_DFTPP\_WRK\_00355 Amount Added: 1.00 Units: mL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151365.D  
 Injection Date: 18-Jul-2019 12:13:30 Instrument ID: HP5973U  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: bs ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
 Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (130.6)
51	10-80% of the base peak	36.1
68	<2% of mass 69	0.0 (0.0)
69	Present	37.1
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	45.1
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-60% of the base peak	27.8
365	>1% of mass 198	3.1
441	present but <24% of mass 442	10.5 (13.7)
442	base peak, or >50% of 198	76.6
443	15-24% of mass 442	14.8 (19.3)

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151365.D\1,4\_Dx\_SIM\_HP5973U.rsl\spc  
 Injection Date: 18-Jul-2019 12:13:30  
 Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)  
 Base Peak: 198.00  
 Minimum % Base Peak: 0  
 Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	183	134.00	4477	216.00	1429	308.00	717
37.00	1598	135.00	6801	217.00	41256	310.00	804
38.00	3874	136.00	3819	218.00	5370	312.00	184
39.00	15885	137.00	3885	219.00	924	313.00	1321
40.00	829	138.00	1087	220.00	1537	314.00	2242
41.00	929	139.00	1112	221.00	32616	315.00	3700
44.00	735	140.00	1682	222.00	4122	316.00	2365
45.00	1063	141.00	17064	223.00	10762	317.00	541
47.00	318	142.00	6053	224.00	87888	321.00	1644
48.00	644	143.00	4157	225.00	22088	322.00	1339
49.00	153	144.00	671	226.00	1064	323.00	11811
50.00	57184	145.00	516	227.00	40096	324.00	1440
51.00	203968	146.00	3543	228.00	4786	325.00	655
52.00	10357	147.00	8134	229.00	7031	327.00	2102
53.00	434	148.00	18960	230.00	1418	328.00	1395
55.00	1064	149.00	3033	231.00	2829	332.00	705
56.00	6302	150.00	778	232.00	686	333.00	975
57.00	12267	151.00	2286	233.00	1189	334.00	6716
58.00	538	152.00	825	234.00	2979	335.00	2491
59.00	326	153.00	5306	235.00	1991	336.00	398
60.00	419	154.00	4924	236.00	2488	339.00	243
61.00	2955	155.00	9372	237.00	3775	341.00	1759
62.00	3911	156.00	11192	238.00	237	342.00	178
63.00	9933	157.00	3010	239.00	1376	345.00	312
64.00	224	158.00	2562	240.00	1198	346.00	2057
65.00	3266	159.00	2198	241.00	1864	347.00	795
69.00	209664	160.00	4704	242.00	4172	348.00	244
70.00	1002	161.00	5993	243.00	3069	349.00	267
73.00	801	162.00	1620	244.00	64152	350.00	272
74.00	24848	163.00	473	245.00	7676	352.00	3448
75.00	32728	164.00	291	246.00	15224	353.00	3201
76.00	1605	165.00	6508	247.00	2622	354.00	3556
77.00	221120	166.00	2049	248.00	428	355.00	948

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151365.D\1\_4\_Dx\_SIM\_HP5973U.rslt\spc

Injection Date: 18-Jul-2019 12:13:30

Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	15322	167.00	28552	249.00	2285	358.00	313
79.00	17288	168.00	11468	250.00	703	359.00	225
80.00	14660	169.00	1500	251.00	693	365.00	17744
81.00	17000	170.00	1833	252.00	1880	366.00	1884
82.00	4601	171.00	1009	253.00	2264	370.00	756
83.00	3555	172.00	3257	255.00	345088	371.00	1776
85.00	5050	173.00	2931	256.00	49592	372.00	4780
86.00	6621	174.00	5749	257.00	4266	373.00	1875
87.00	1928	175.00	11814	258.00	18672	377.00	353
88.00	1288	176.00	3873	259.00	2733	383.00	1711
91.00	3591	177.00	6256	261.00	416	384.00	702
92.00	4442	178.00	671	262.00	423	385.00	179
93.00	32160	179.00	22552	264.00	1234	390.00	506
94.00	1997	180.00	13619	265.00	8466	392.00	283
95.00	842	181.00	5600	266.00	391	393.00	188
96.00	998	182.00	1696	267.00	334	400.00	369
97.00	532	183.00	1024	268.00	230	401.00	697
98.00	23296	184.00	1550	269.00	182	402.00	3011
99.00	16920	185.00	9899	270.00	341	403.00	2961
100.00	1212	186.00	83056	271.00	178	404.00	1354
101.00	9042	187.00	22800	272.00	1154	407.00	202
102.00	697	188.00	2642	273.00	10521	410.00	275
103.00	3611	189.00	5900	274.00	26720	420.00	285
104.00	7344	190.00	750	275.00	156864	421.00	3265
105.00	6245	191.00	2465	276.00	20808	422.00	3249
107.00	74584	192.00	7875	277.00	13880	423.00	22392
108.00	10427	193.00	7371	278.00	575	424.00	4510
110.00	132416	194.00	1614	279.00	478	425.00	955
111.00	22624	195.00	1158	281.00	466	428.00	332
112.00	2709	196.00	19384	282.00	786	429.00	212
113.00	796	198.00	565248	283.00	1546	433.00	231
116.00	3714	199.00	37096	284.00	1351	434.00	282
117.00	74624	200.00	2792	285.00	1830	435.00	244
118.00	5122	201.00	2565	286.00	250	436.00	464

Report Date: 19-Jul-2019 16:39:57

Chrom Revision: 2.3 15-Jul-2019 06:58:08

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151365.D\1,4\_Dx\_SIM\_HP5973U.rslt\sp

Injection Date: 18-Jul-2019 12:13:30

Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 321

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	688	202.00	815	289.00	609	437.00	501
120.00	981	203.00	4420	291.00	232	438.00	1063
121.00	368	204.00	21736	292.00	934	439.00	860
122.00	6674	205.00	34736	293.00	3178	441.00	59304
123.00	9194	206.00	153408	294.00	566	442.00	432768
124.00	3498	207.00	20104	295.00	674	443.00	83520
125.00	2725	208.00	5044	296.00	43136	444.00	5227
127.00	254912	209.00	2302	297.00	6660	445.00	245
128.00	23488	210.00	3593	298.00	685	460.00	273
129.00	112592	211.00	6440	301.00	927	480.00	266
130.00	9093	212.00	1795	302.00	1117	485.00	186
131.00	1635	213.00	285	303.00	5956		
132.00	1173	214.00	542	304.00	1241		
133.00	867	215.00	2153	305.00	315		

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151365.D

Injection Date: 18-Jul-2019 12:13:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: bs

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

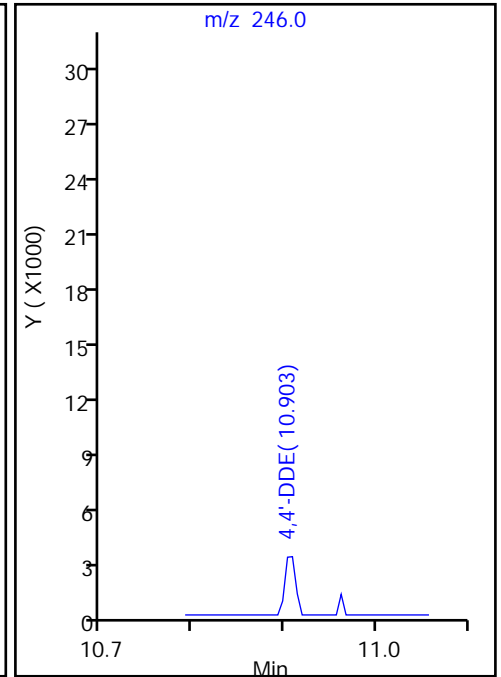
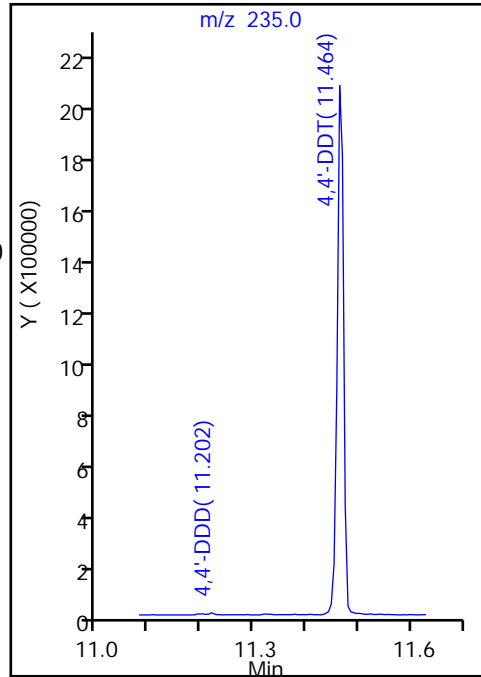
6 4,4'-DDT, Area = 1758977

5 4,4'-DDD, Area = 4365

7 4,4'-DDE, Area = 2650

%Breakdown: 0.40%, <= 20.00%

Passed



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151395.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 19-Jul-2019 00:08:30 ALS Bottle#: 32 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 32  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 21-Jul-2019 13:39:44 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: Deconvolution ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1025

First Level Reviewer: schickr Date: 21-Jul-2019 13:36:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	10.903	10.903	0.000	0	7359			NR
5 4,4'-DDD	235	11.192	11.192	0.000	97	53621			NR
6 4,4'-DDT	235	11.464	11.464	0.000	99	1557494	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

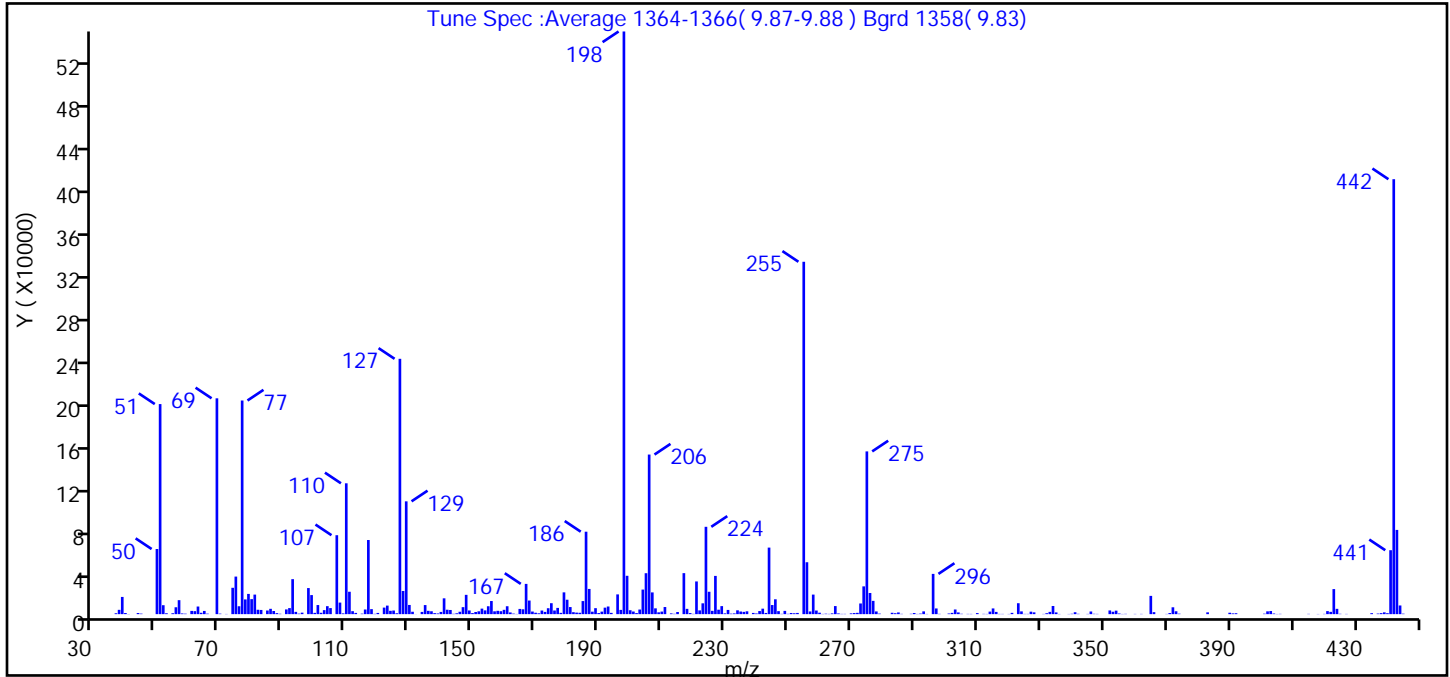
Reagents:

MB\_DFTPP\_WRK\_00355 Amount Added: 1.00 Units: mL

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151395.D  
 Injection Date: 19-Jul-2019 00:08:30 Instrument ID: HP5973U  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: bs ALS Bottle#: 32 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
 Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (134.0)
51	10-80% of the base peak	36.1
68	<2% of mass 69	0.0 (0.0)
69	Present	37.0
70	<2% of mass 69	0.1 (0.2)
127	10-80% of the base peak	43.8
197	<2% of mass 198	0.7
199	5-9% of mass 198	6.6
275	10-60% of the base peak	27.9
365	>1% of mass 198	3.1
441	present but <24% of mass 442	11.0 (14.7)
442	base peak, or >50% of 198	74.6
443	15-24% of mass 442	14.5 (19.4)

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151395.D\1\_4\_Dx\_SIM\_HP5973U.rsl\spc  
 Injection Date: 19-Jul-2019 00:08:30  
 Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)  
 Base Peak: 198.00  
 Minimum % Base Peak: 0  
 Number of Points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	843	134.00	2084	215.00	1999	307.00	235
38.00	4021	135.00	8465	217.00	38256	308.00	216
39.00	16058	136.00	3088	218.00	4939	310.00	990
40.00	1057	137.00	2691	219.00	995	312.00	260
41.00	136	138.00	951	220.00	263	313.00	196
44.00	1054	139.00	634	221.00	30520	314.00	2379
45.00	484	140.00	2080	222.00	3505	315.00	5329
50.00	60768	141.00	14763	223.00	10100	316.00	2087
51.00	196032	142.00	4122	224.00	81504	317.00	222
52.00	8338	143.00	3887	225.00	20888	318.00	216
53.00	817	144.00	306	226.00	3083	320.00	191
55.00	858	145.00	789	227.00	35680	321.00	1199
56.00	6426	146.00	2232	228.00	4141	323.00	10198
57.00	13042	147.00	6524	229.00	7490	324.00	2579
58.00	656	148.00	18008	230.00	730	325.00	236
59.00	438	149.00	3438	231.00	3929	326.00	240
61.00	3014	150.00	1005	232.00	457	327.00	2305
62.00	2800	151.00	2004	233.00	682	328.00	1664
63.00	7115	152.00	2664	234.00	3559	331.00	203
64.00	1274	153.00	5147	235.00	2446	332.00	864
65.00	2993	154.00	3504	236.00	2123	333.00	2118
66.00	448	155.00	7367	237.00	2641	334.00	7602
69.00	201408	156.00	12245	239.00	1136	335.00	1621
70.00	468	157.00	2635	240.00	635	336.00	177
72.00	182	158.00	3095	241.00	2874	339.00	178
73.00	3	159.00	2741	242.00	5110	340.00	351
74.00	24584	160.00	4038	243.00	1111	341.00	1778
75.00	35056	161.00	7378	244.00	62096	342.00	309
76.00	7373	162.00	1582	245.00	8492	345.00	215
77.00	199360	163.00	515	246.00	13868	346.00	2482
78.00	13747	164.00	181	247.00	2787	347.00	330
79.00	18880	165.00	4873	248.00	275	348.00	229
80.00	14012	166.00	4527	249.00	3033	352.00	3444



Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151395.D\1\_4\_Dx\_SIM\_HP5973U.rslt\spc

Injection Date: 19-Jul-2019 00:08:30

Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
81.00	18240	167.00	28232	250.00	284	353.00	2240
82.00	4103	168.00	12695	251.00	1083	354.00	3259
83.00	3907	169.00	2423	252.00	819	355.00	592
85.00	3395	170.00	1316	253.00	1128	356.00	172
86.00	4975	171.00	776	255.00	328832	357.00	277
87.00	2934	172.00	3362	256.00	48440	360.00	212
88.00	938	173.00	2098	257.00	2519	362.00	220
89.00	343	174.00	5524	258.00	18248	365.00	17040
91.00	4401	175.00	10217	259.00	3369	366.00	1854
92.00	5631	176.00	3391	260.00	1345	370.00	198
93.00	32648	177.00	5820	261.00	207	371.00	1023
94.00	2125	178.00	1208	262.00	418	372.00	6399
95.00	454	179.00	20328	263.00	241	373.00	2687
96.00	1393	180.00	13459	264.00	700	374.00	417
98.00	24336	181.00	6619	265.00	7527	383.00	1682
99.00	17784	182.00	1837	266.00	655	390.00	1301
100.00	1196	183.00	1434	267.00	235	391.00	702
101.00	8483	184.00	1277	268.00	245	392.00	857
102.00	1274	185.00	12197	270.00	734	401.00	446
103.00	3742	186.00	76936	271.00	1021	402.00	2613
104.00	7444	187.00	23520	272.00	1236	403.00	2912
105.00	5651	188.00	2305	273.00	9954	404.00	589
107.00	73672	189.00	5576	274.00	25920	405.00	176
108.00	10782	190.00	1013	275.00	151872	406.00	268
109.00	704	191.00	2351	276.00	19736	415.00	252
110.00	122104	192.00	6068	277.00	12383	418.00	167
111.00	20896	193.00	7135	278.00	2529	420.00	241
112.00	2773	194.00	1200	279.00	506	421.00	2834
113.00	1155	196.00	18432	283.00	1280	422.00	2139
115.00	455	197.00	3971	284.00	861	423.00	23376
116.00	4329	198.00	543744	285.00	1590	424.00	4948
117.00	69176	199.00	35792	286.00	264	425.00	320
118.00	4666	200.00	3640	289.00	322	427.00	210
119.00	277	201.00	2450	290.00	1040	435.00	908

Report Date: 21-Jul-2019 13:39:45

Chrom Revision: 2.3 15-Jul-2019 06:58:08

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151395.D\1,4\_Dx\_SIM\_HP5973U.rsl\sp

Injection Date: 19-Jul-2019 00:08:30

Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 313

m/z	Y	m/z	Y	m/z	Y	m/z	Y
120.00	1127	202.00	1004	291.00	215	437.00	549
122.00	6108	203.00	4301	292.00	532	438.00	951
123.00	7967	204.00	22920	293.00	2589	439.00	1681
124.00	3104	205.00	38200	294.00	189	440.00	891
125.00	3373	206.00	148928	296.00	37568	441.00	59664
126.00	827	207.00	20280	297.00	5306	442.00	405888
127.00	238272	208.00	5411	298.00	251	443.00	78600
128.00	21608	209.00	1698	301.00	603	444.00	8096
129.00	105272	210.00	2395	302.00	1193	445.00	435
130.00	8570	211.00	6641	303.00	4343		
131.00	2234	213.00	706	304.00	1606		
132.00	63	214.00	312	305.00	340		

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82721.b\U33151395.D

Injection Date: 19-Jul-2019 00:08:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: bs

ALS Bottle#: 32

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

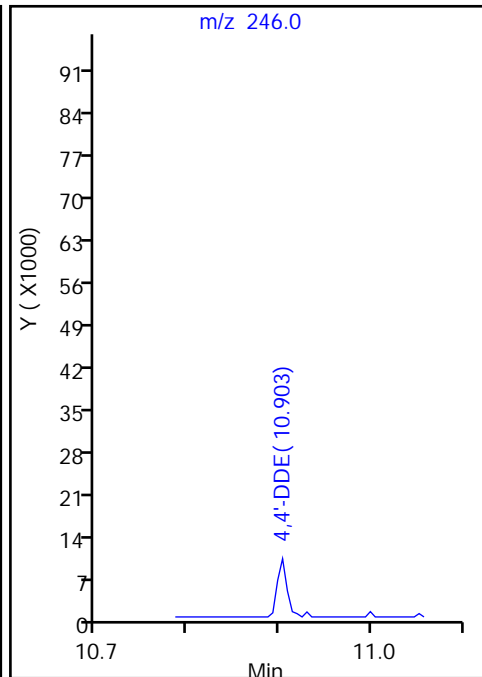
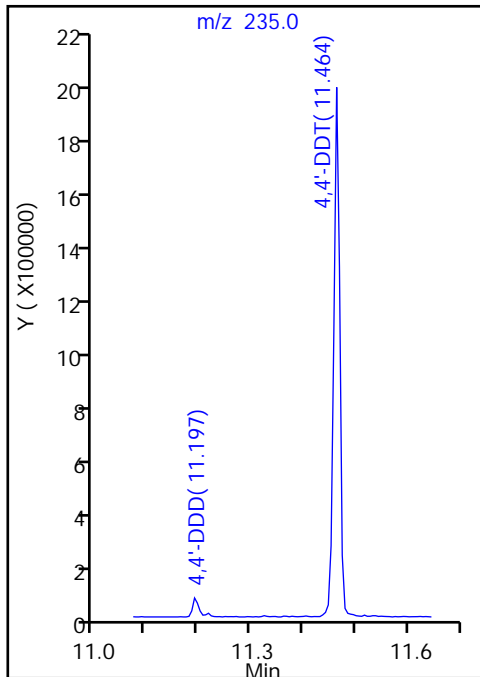
6 4,4'-DDT, Area = 1557494

5 4,4'-DDD, Area = 53621

7 4,4'-DDE, Area = 7359

%Breakdown: 3.77%, <= 20.00%

Passed



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151419.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 21-Jul-2019 14:10:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: dftpp  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 22-Jul-2019 13:37:38 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: Deconvolution ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1021

First Level Reviewer: schickr Date: 21-Jul-2019 15:01:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	10.903	10.903	0.000	0	6367			NR
5 4,4'-DDD	235	11.191	11.191	0.000	95	43559			NR
6 4,4'-DDT	235	11.464	11.464	0.000	98	1395132	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

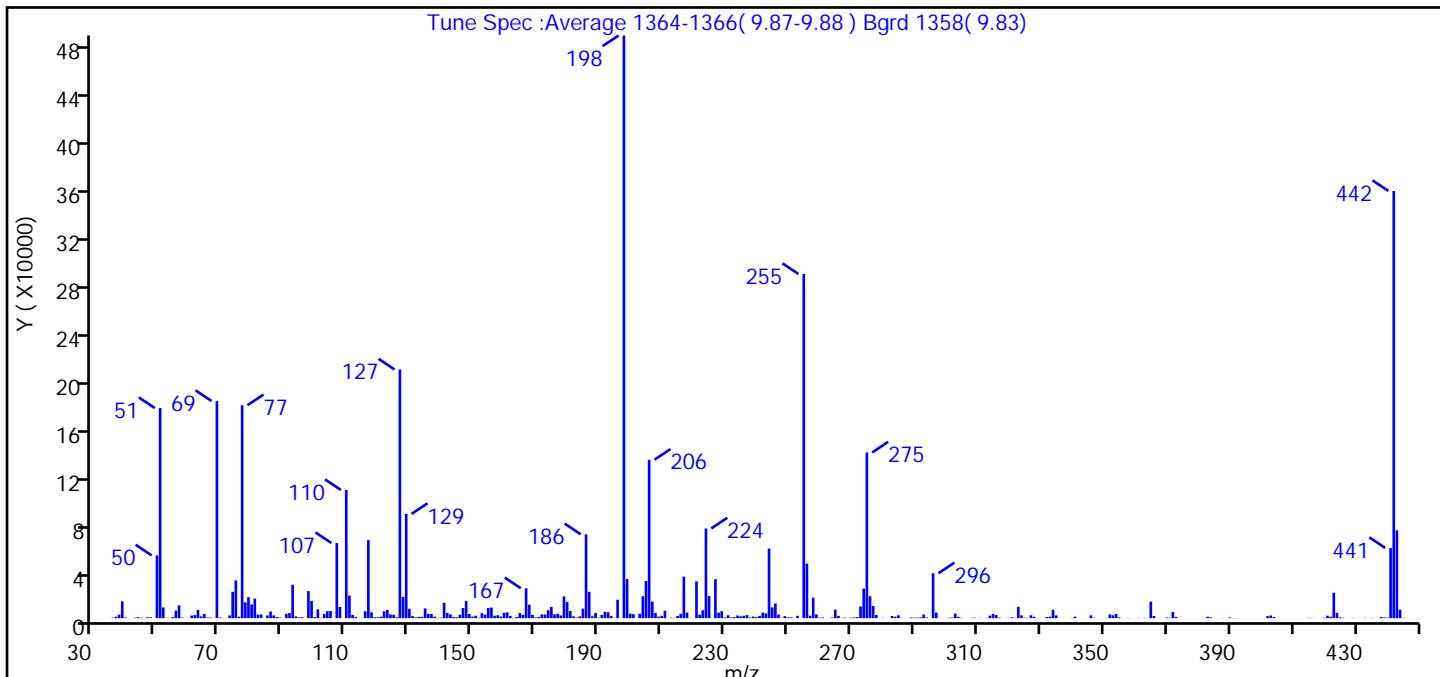
Reagents:

MB\_DFTPP\_WRK\_00355 Amount Added: 1.00 Units: mL

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151419.D  
 Injection Date: 21-Jul-2019 14:10:30 Instrument ID: HP5973U  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: bs ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
 Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >90% of 442	100.0 (136.4)
51	10-80% of the base peak	36.1
68	<2% of mass 69	0.0 (0.0)
69	Present	37.3
70	<2% of mass 69	0.1 (0.3)
127	10-80% of the base peak	42.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-60% of the base peak	28.4
365	>1% of mass 198	2.8
441	present but <24% of mass 442	12.0 (16.4)
442	base peak, or >50% of 198	73.3
443	15-24% of mass 442	15.1 (20.6)

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151419.D\1,4\_Dx\_SIM\_HP5973U.rsl\spc  
Injection Date: 21-Jul-2019 14:10:30  
Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	388	125.00	2850	204.00	18200	294.00	576
37.00	1237	126.00	797	205.00	30944	296.00	37288
38.00	2956	127.00	206656	206.00	131648	297.00	4703
39.00	13967	128.00	17616	207.00	13696	301.00	304
40.00	535	129.00	86600	208.00	4351	302.00	595
41.00	119	130.00	7800	209.00	1255	303.00	3790
43.00	387	131.00	1729	210.00	1877	304.00	1091
44.00	817	132.00	686	211.00	6136	305.00	243
45.00	360	133.00	1050	213.00	396	308.00	233
47.00	741	134.00	1108	214.00	205	309.00	433
48.00	700	135.00	8092	215.00	1775	311.00	168
50.00	52144	136.00	3578	216.00	3637	313.00	270
51.00	174592	137.00	3400	217.00	34528	314.00	2027
52.00	8896	138.00	1283	218.00	4754	315.00	3444
53.00	279	139.00	186	219.00	169	316.00	2584
55.00	927	140.00	387	221.00	30528	317.00	496
56.00	6239	141.00	12775	222.00	2951	320.00	266
57.00	10659	142.00	4342	223.00	6567	321.00	698
58.00	454	143.00	3166	224.00	74536	322.00	241
60.00	78	144.00	987	225.00	18408	323.00	9408
61.00	2153	145.00	775	227.00	32456	324.00	2307
62.00	2515	146.00	2837	228.00	4574	325.00	365
63.00	6917	147.00	8431	229.00	5755	326.00	197
64.00	1515	148.00	14354	230.00	648	327.00	2379
65.00	3523	149.00	3408	231.00	2413	328.00	1138
66.00	469	150.00	1247	232.00	614	329.00	172
67.00	479	151.00	2038	233.00	944	332.00	930
69.00	180416	152.00	357	234.00	2182	333.00	1183
70.00	550	153.00	4126	235.00	1527	334.00	7035
71.00	229	154.00	2939	236.00	1947	335.00	2299
72.00	172	155.00	8454	237.00	2544	340.00	204
73.00	2236	156.00	8789	238.00	633	341.00	1267
74.00	21896	157.00	1957	239.00	1340	346.00	2340

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151419.D\1\_4\_Dx\_SIM\_HP5973U.rsl\spc

Injection Date: 21-Jul-2019 14:10:30

Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	31392	158.00	2402	240.00	889	347.00	403
76.00	1215	159.00	1314	241.00	1812	351.00	200
77.00	176960	160.00	4500	242.00	4575	352.00	3063
78.00	13062	161.00	4817	243.00	4000	353.00	2358
79.00	17480	162.00	1780	244.00	57896	354.00	3437
80.00	11424	163.00	197	245.00	8981	355.00	685
81.00	16246	164.00	1034	246.00	12222	358.00	186
82.00	2844	165.00	4209	247.00	2916	361.00	167
83.00	3069	166.00	2737	248.00	232	363.00	246
85.00	2212	167.00	24816	249.00	1706	365.00	13757
86.00	5442	168.00	11189	250.00	673	366.00	1799
87.00	2278	169.00	2787	251.00	669	370.00	528
88.00	926	170.00	591	253.00	1949	371.00	382
89.00	512	171.00	1027	255.00	286016	372.00	5009
91.00	3552	172.00	3097	256.00	45368	373.00	1099
92.00	4220	173.00	3057	257.00	1988	383.00	1225
93.00	27800	174.00	6591	258.00	16952	384.00	687
94.00	1452	175.00	9369	259.00	3163	388.00	206
95.00	627	176.00	3232	260.00	350	390.00	593
96.00	784	177.00	3614	261.00	557	391.00	173
98.00	22448	178.00	2234	264.00	644	392.00	168
99.00	14337	179.00	18128	265.00	7078	402.00	1666
100.00	991	180.00	13486	266.00	1823	403.00	2188
101.00	7347	181.00	5921	267.00	228	404.00	1000
102.00	320	182.00	1542	268.00	453	415.00	227
103.00	3452	183.00	479	270.00	476	416.00	185
104.00	5735	184.00	1458	271.00	559	420.00	329
105.00	5926	185.00	7918	272.00	921	421.00	2053
107.00	62416	186.00	69688	273.00	9729	422.00	1238
108.00	9319	187.00	21872	274.00	24560	423.00	21152
110.00	106496	188.00	1558	275.00	137664	424.00	4293
111.00	18816	189.00	4292	276.00	18272	425.00	726
112.00	2729	190.00	376	277.00	10074	426.00	305
113.00	1004	191.00	2619	278.00	2621	429.00	228

Report Date: 22-Jul-2019 13:37:39

Chrom Revision: 2.3 15-Jul-2019 06:58:08

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151419.D\1,4\_Dx\_SIM\_HP5973U.rsl\sp

Injection Date: 21-Jul-2019 14:10:30

Spectrum: Tune Spec :Average 1364-1366( 9.87-9.88 ) Bgrd 1358( 9.83)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	223	192.00	5278	280.00	231	433.00	259
116.00	5692	193.00	4911	283.00	1767	435.00	258
117.00	64816	194.00	1841	284.00	1148	438.00	991
118.00	4839	195.00	272	285.00	2399	439.00	632
119.00	759	196.00	15295	286.00	241	440.00	376
120.00	767	198.00	484224	289.00	587	441.00	58296
121.00	1259	199.00	32528	290.00	395	442.00	355008
122.00	5719	200.00	3752	291.00	463	443.00	72984
123.00	6897	201.00	3294	292.00	673	444.00	7051
124.00	3173	203.00	3593	293.00	3023	445.00	268



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190721-82775.b\U33151419.D

Injection Date: 21-Jul-2019 14:10:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: bs

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

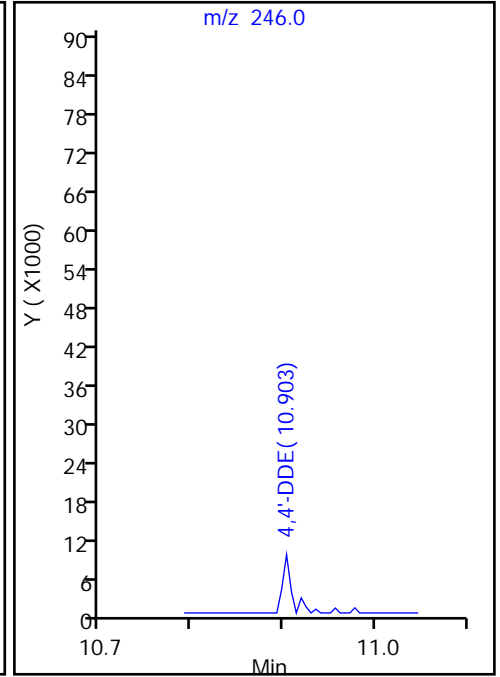
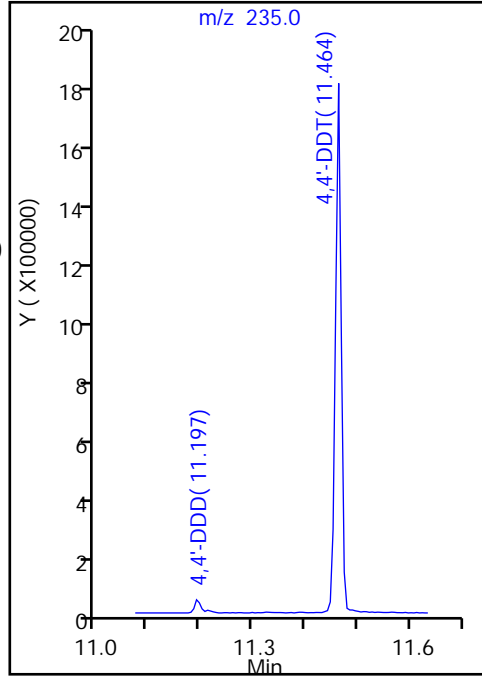
%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

6 4,4'-DDT, Area = 1395132

5 4,4'-DDD, Area = 43559

7 4,4'-DDE, Area = 6367

%Breakdown: 3.45%, <= 20.00%  
Passed



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 480-482507/1-A  
 Matrix: Water Lab File ID: U33151384.D  
 Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/18/2019 19:44  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151384.D  
 Lims ID: MB 480-482507/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 18-Jul-2019 19:44:30 ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 21  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:58 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 19-Jul-2019 16:36:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.656	2.558	0.098	90	208509	10.0	3.85	
3 1,4-Dioxane	88		2.615					ND	U
* 2 1,4-Dichlorobenzene-d4	152	5.834	5.830	0.004	98	469713	4.00	4.00	

**QC Flag Legend**

Review Flags

U - Marked Undetected

**Reagents:**

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151384.D

Injection Date: 18-Jul-2019 19:44:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: MB 480-482507/1-A

Worklist Smp#: 21

Client ID:

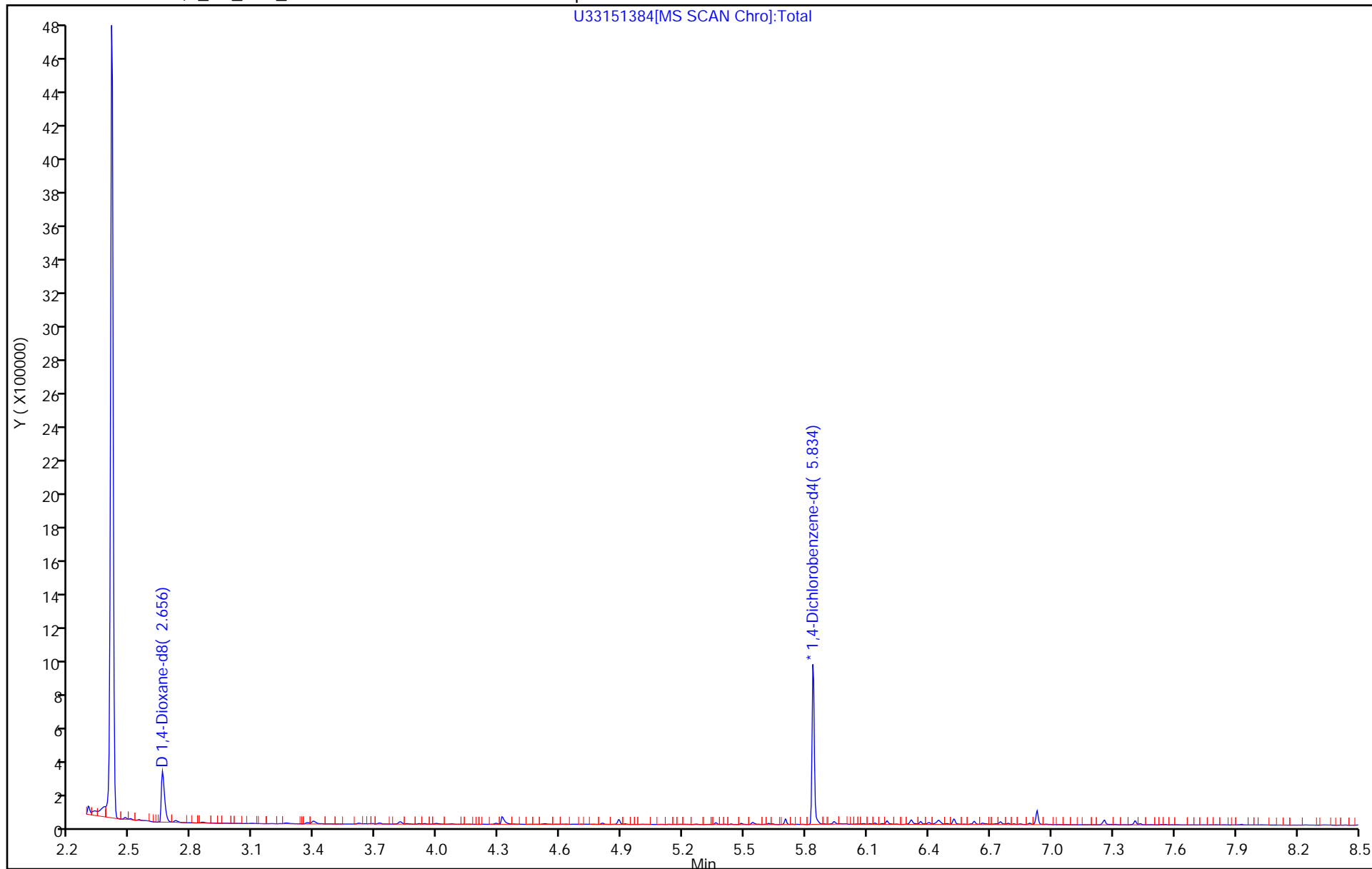
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151384.D

Injection Date: 18-Jul-2019 19:44:30

Instrument ID: HP5973U

Lims ID: MB 480-482507/1-A

Client ID:

Operator ID: bs

ALS Bottle#: 21

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

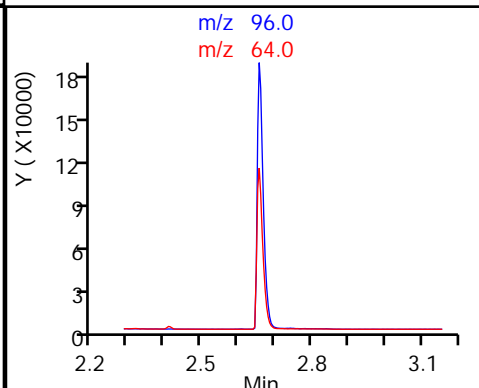
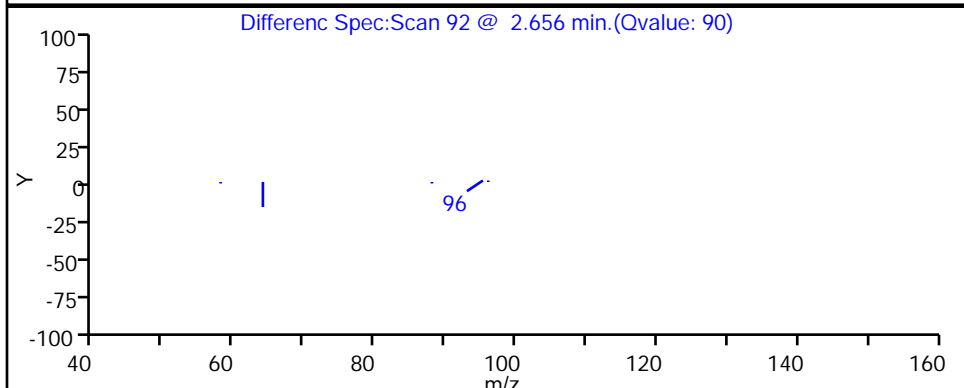
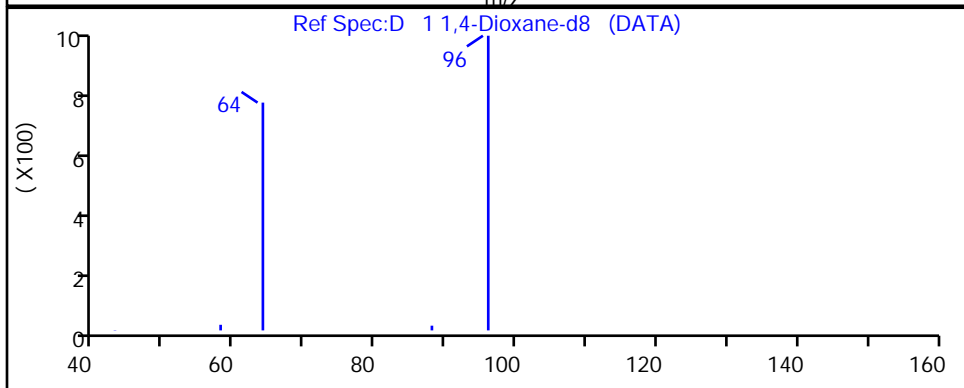
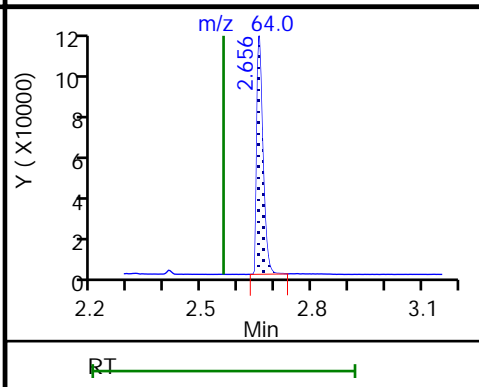
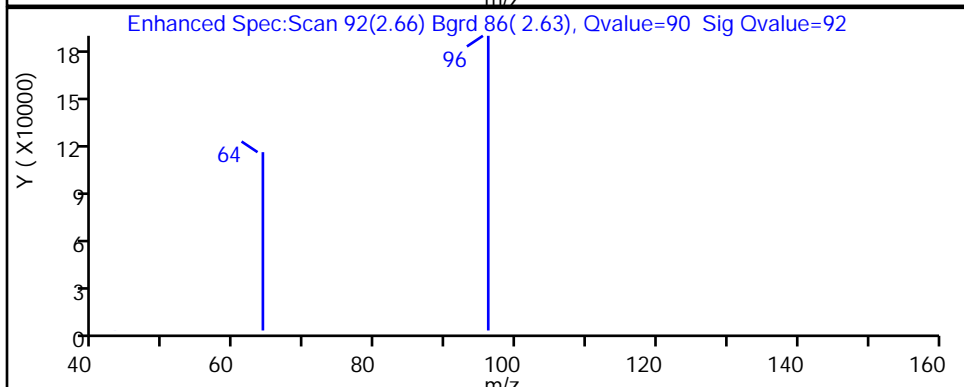
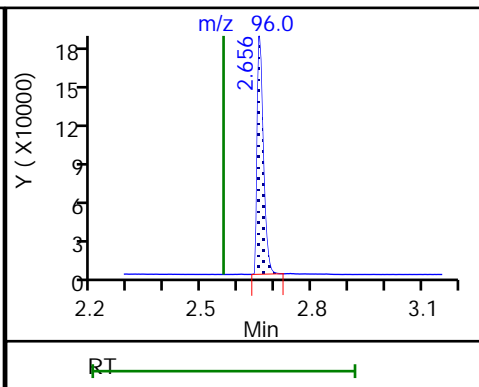
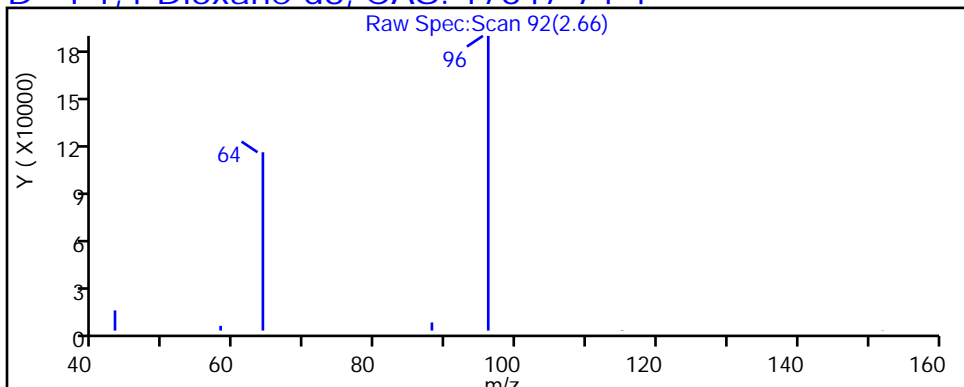
Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column:

Detector MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

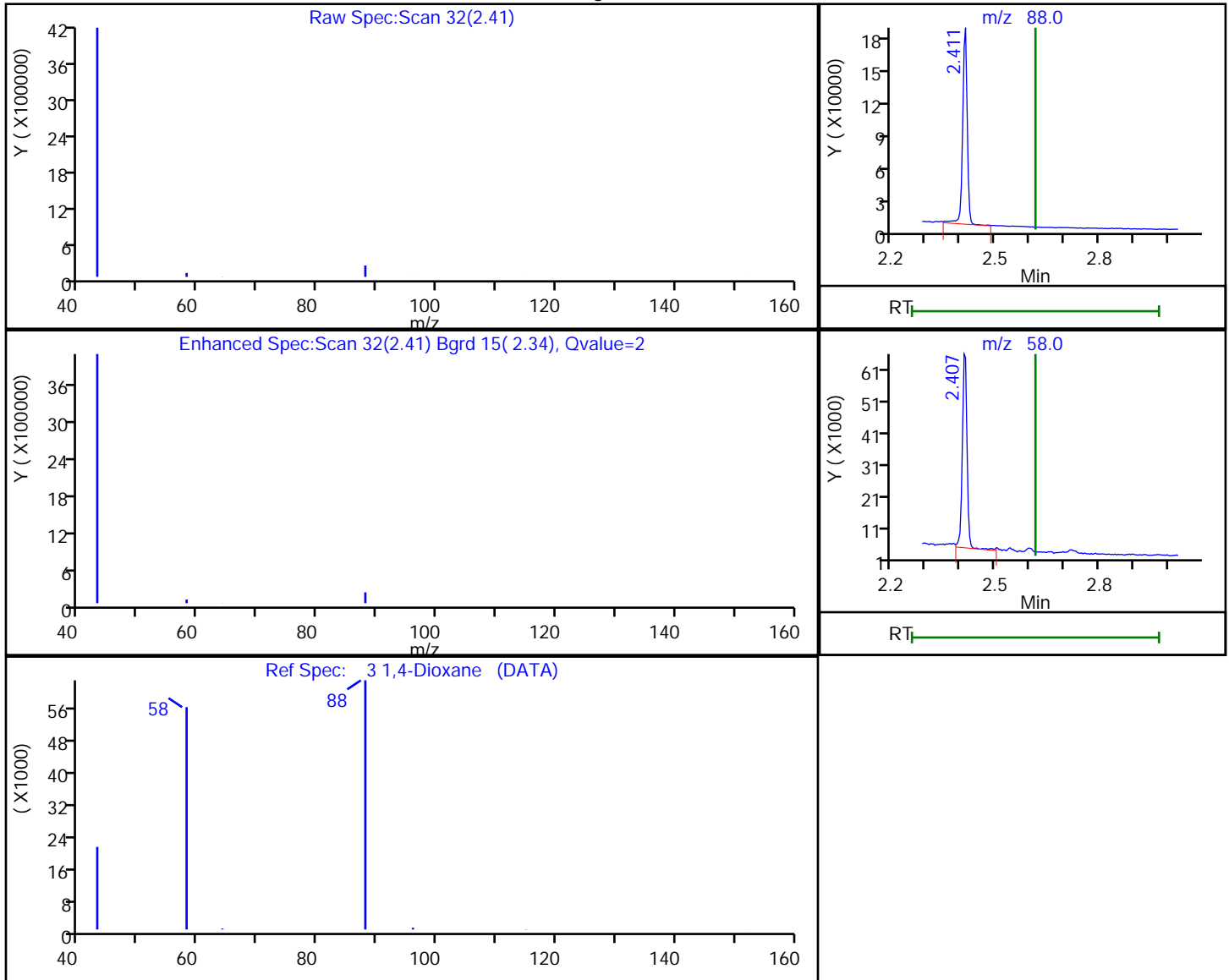


Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151384.D  
 Injection Date: 18-Jul-2019 19:44:30 Instrument ID: HP5973U  
 Lims ID: MB 480-482507/1-A  
 Client ID:  
 Operator ID: bs ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Method: 1,4\_Dx\_SIM\_HP5973U Limit Group: MB - 8270D SIM ID ICAL  
 Column: Detector MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
2.41	88.00	167271	8.169038
2.41	58.00	59086	

Reviewer: schickr, 19-Jul-2019 16:36:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 480-482507/2-A  
 Matrix: Water Lab File ID: U33151385.D  
 Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/18/2019 20:08  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.15		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	34		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151385.D  
 Lims ID: LCS 480-482507/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 18-Jul-2019 20:08:30 ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 22  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:58 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 19-Jul-2019 16:36:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.697	2.558	0.139	89	187663	10.0	3.36	
3 1,4-Dioxane	88	2.737	2.615	0.122	84	21243	1.00	1.15	
* 2 1,4-Dichlorobenzene-d4	152	5.838	5.830	0.008	96	484580	4.00	4.00	

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent



Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151385.D

Injection Date: 18-Jul-2019 20:08:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: LCS 480-482507/2-A

Worklist Smp#: 22

Client ID:

Injection Vol: 1.0 ul

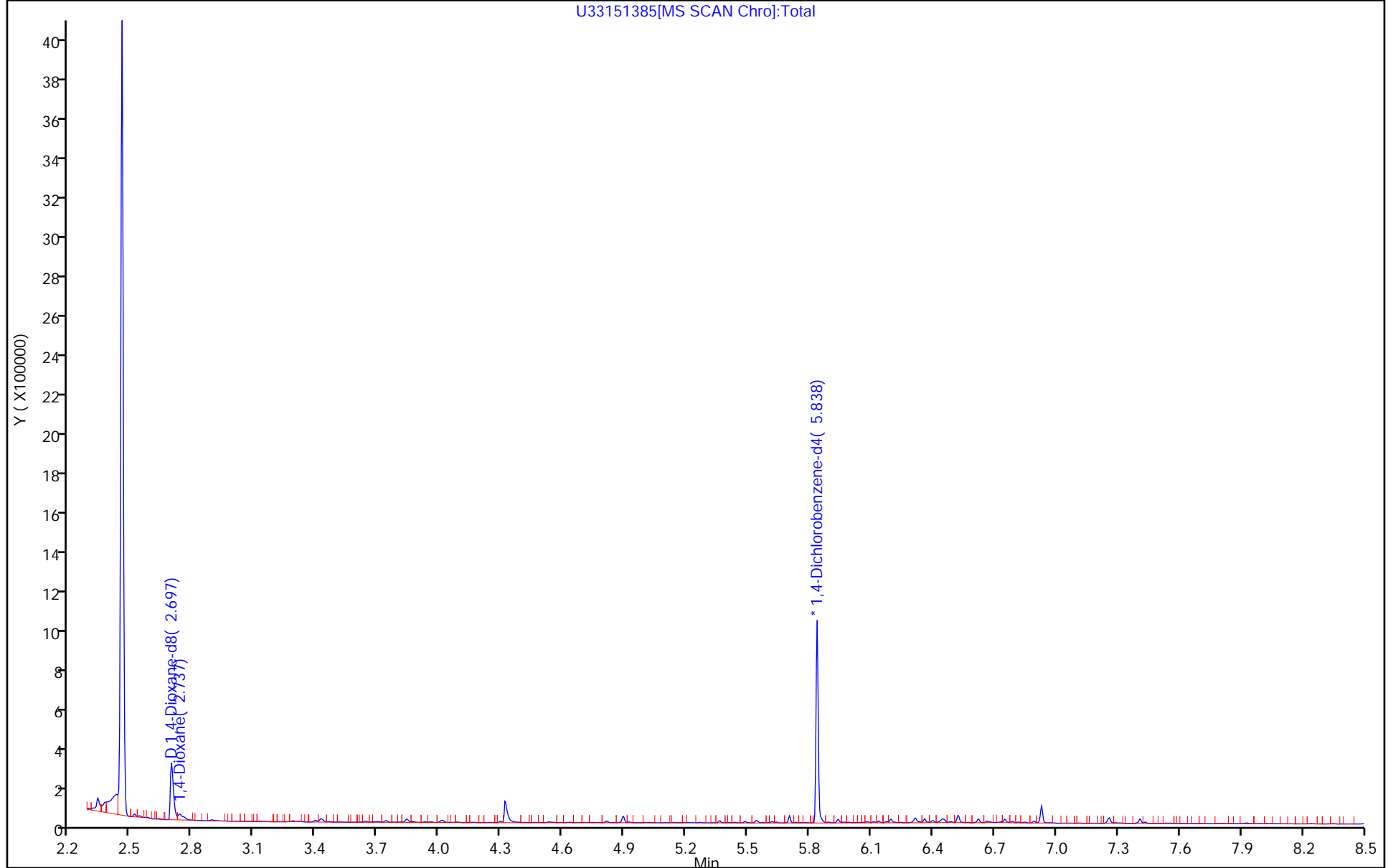
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

U33151385[MS SCAN Chrom]:Total



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MS Lab Sample ID: 480-156213-14 MS  
 Matrix: Water Lab File ID: U33151386.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 13:15  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/18/2019 20:32  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.93		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	34		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151386.D  
 Lims ID: 480-156213-A-14-A MS  
 Client ID: 356023-MW6B  
 Sample Type: MS  
 Inject. Date: 18-Jul-2019 20:32:30 ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 23  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:58 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 19-Jul-2019 16:36:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.684	2.558	0.126	92	175833	10.0	3.39	
3 1,4-Dioxane	88	2.725	2.615	0.110	85	33341	1.00	1.93	E
* 2 1,4-Dichlorobenzene-d4	152	5.838	5.830	0.008	96	449185	4.00	4.00	
7 4,4'-DDE	246		10.908					ND	
5 4,4'-DDD	235		11.197					ND	
6 4,4'-DDT	235		11.464					ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151386.D

Injection Date: 18-Jul-2019 20:32:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-A-14-A MS

Worklist Smp#: 23

Client ID: 356023-MW6B

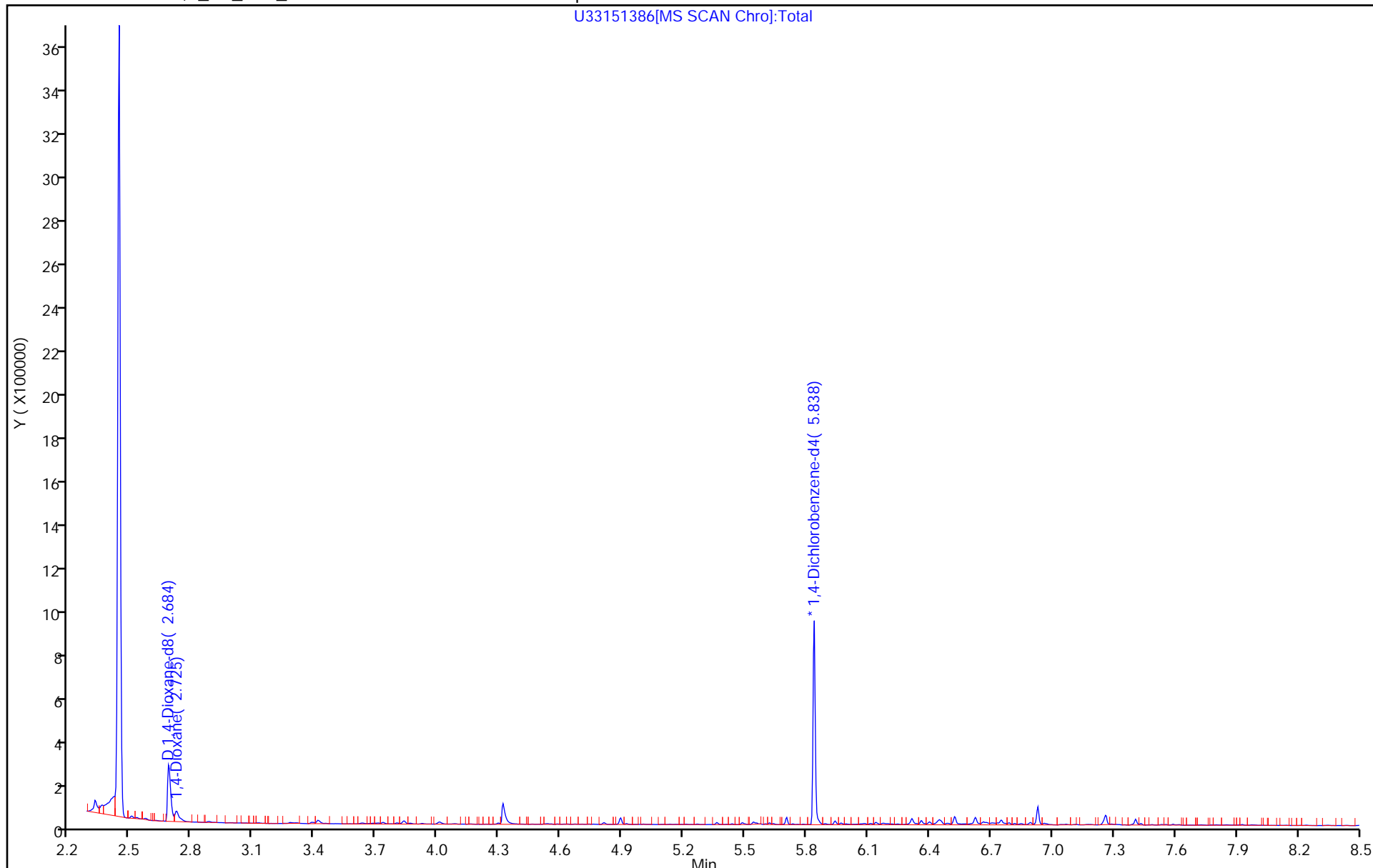
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MSD Lab Sample ID: 480-156213-14 MSD  
 Matrix: Water Lab File ID: U33151387.D  
 Analysis Method: 8270D SIM ID Date Collected: 07/11/2019 13:15  
 Extract. Method: 3510C Date Extracted: 07/17/2019 15:17  
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/18/2019 20:55  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 482664 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.90		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	38		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151387.D  
 Lims ID: 480-156213-B-14-A MSD  
 Client ID: 356023-MW6B  
 Sample Type: MSD  
 Inject. Date: 18-Jul-2019 20:55:30 ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 24  
 Operator ID: bs Instrument ID: HP5973U  
 Method: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\1,4\_Dx\_SIM\_HP5973U.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 19-Jul-2019 16:39:58 Calib Date: 03-Jul-2019 16:46:30  
 Integrator: Picker ID Type: RT Order ID  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICAL File: \\chromna\Buffalo\ChromData\HP5973U\20190703-82400.b\U33151157.D  
 Column 1 : Det: MS SCAN  
 Process Host: CTX1015

First Level Reviewer: schickr Date: 19-Jul-2019 16:36:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.701	2.558	0.143	89	190067	10.0	3.76	
3 1,4-Dioxane	88	2.737	2.615	0.122	86	35371	1.00	1.90	E
* 2 1,4-Dichlorobenzene-d4	152	5.838	5.830	0.008	97	437747	4.00	4.00	
7 4,4'-DDE	246		10.908					ND	
5 4,4'-DDD	235		11.197					ND	
6 4,4'-DDT	235		11.464					ND	

**QC Flag Legend**

Processing Flags

E - Exceeded Maximum Amount

**Reagents:**

MB\_LLIS\_WRK\_00172 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973U\20190718-82720.b\U33151387.D

Injection Date: 18-Jul-2019 20:55:30

Instrument ID: HP5973U

Operator ID: bs

Lims ID: 480-156213-B-14-A MSD

Worklist Smp#: 24

Client ID: 356023-MW6B

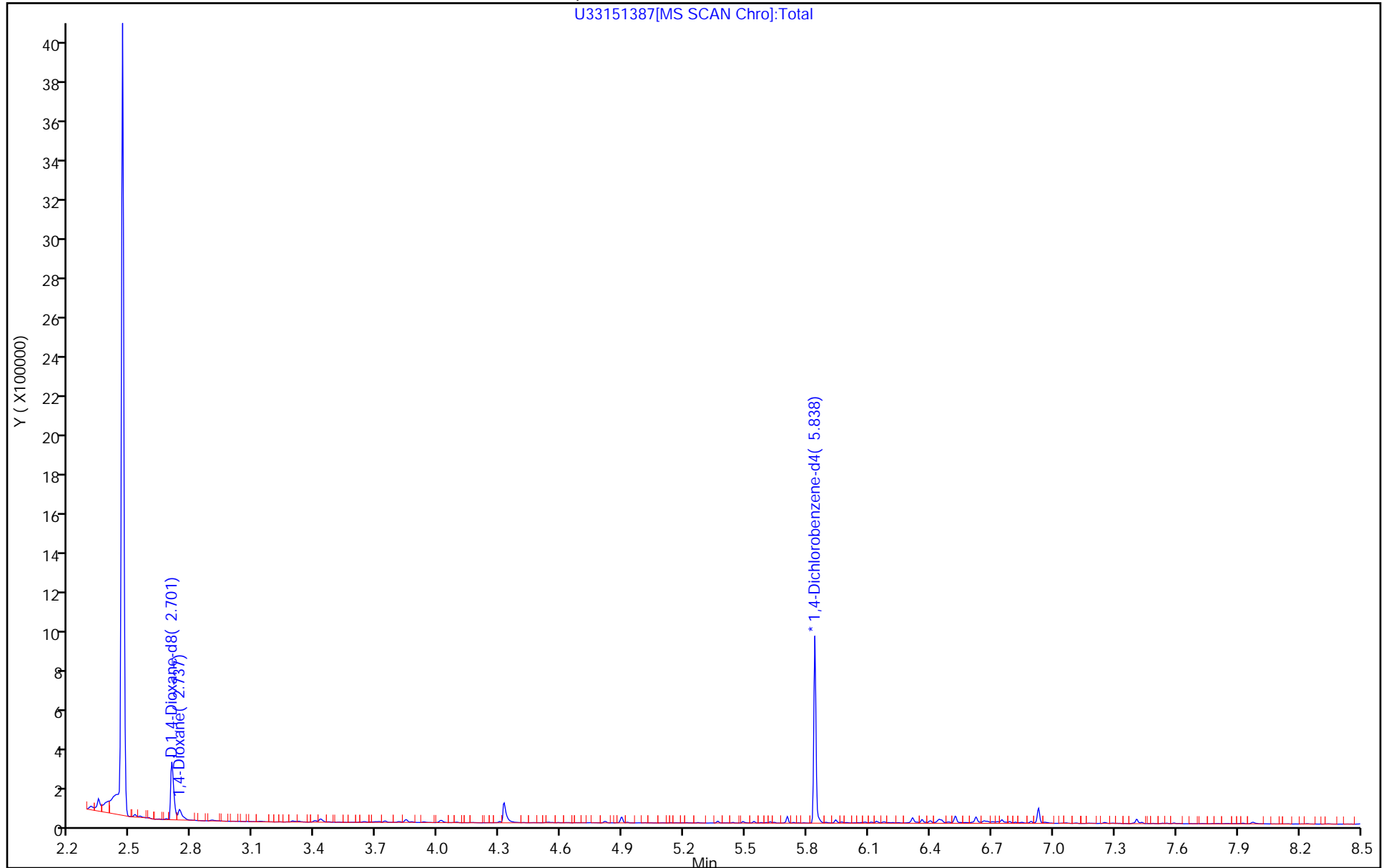
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 1,4\_Dx\_SIM\_HP5973U

Limit Group: MB - 8270D SIM ID ICAL



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973U Start Date: 07/03/2019 14:17Analysis Batch Number: 480789 End Date: 07/03/2019 17:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-480789/2		07/03/2019 14:17	1	U33151151.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-480789/3		07/03/2019 14:45	1	U33151152.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-480789/4		07/03/2019 15:09	1	U33151153.D	RXI-5Sil MS(0.5 0.25 (mm))
ICIS 480-480789/5		07/03/2019 15:34	1	U33151154.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-480789/6		07/03/2019 15:58	1	U33151155.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-480789/7		07/03/2019 16:23	1	U33151156.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-480789/8		07/03/2019 16:46	1	U33151157.D	RXI-5Sil MS(0.5 0.25 (mm))
ICV 480-480789/9		07/03/2019 17:10	1		RXI-5Sil MS(0.5 0.25 (mm))



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973UStart Date: 07/18/2019 12:13Analysis Batch Number: 482664End Date: 07/18/2019 23:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-482664/2		07/18/2019 12:13	1	U33151365.D	RXI-5Sil MS(0.5 0.25 (mm))
CCVIS 480-482664/3		07/18/2019 12:41	1	U33151366.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 13:04	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 13:27	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 13:51	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 14:14	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 14:38	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 15:01	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 15:25	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 15:48	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 16:12	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 16:36	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 16:59	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 17:23	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 17:46	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 18:10	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 18:33	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 18:57	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 19:20	1		RXI-5Sil MS(0.5 0.25 (mm))
MB 480-482507/1-A		07/18/2019 19:44	1	U33151384.D	RXI-5Sil MS(0.5 0.25 (mm))
LCS 480-482507/2-A		07/18/2019 20:08	1	U33151385.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-14 MS		07/18/2019 20:32	1	U33151386.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-14 MSD		07/18/2019 20:55	1	U33151387.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-14		07/18/2019 21:19	1	U33151388.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-1		07/18/2019 21:43	1	U33151389.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-2		07/18/2019 22:07	1	U33151390.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 22:31	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 22:55	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/18/2019 23:19	1		RXI-5Sil MS(0.5 0.25 (mm))

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973U Start Date: 07/19/2019 00:08

Analysis Batch Number: 482665 End Date: 07/19/2019 11:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-482665/2		07/19/2019 00:08	1	U33151395.D	RXI-5Sil MS(0.5 0.25 (mm))
CCVIS 480-482665/3		07/19/2019 00:36	1	U33151396.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/19/2019 01:00	1		RXI-5Sil MS(0.5 0.25 (mm))
480-156213-7		07/19/2019 01:24	1	U33151398.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-8		07/19/2019 01:48	1	U33151399.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-9		07/19/2019 02:11	1	U33151400.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-10		07/19/2019 02:35	1	U33151401.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/19/2019 02:58	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/19/2019 03:22	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/19/2019 03:45	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/19/2019 04:09	1		RXI-5Sil MS(0.5 0.25 (mm))
480-156213-16		07/19/2019 04:32	1	U33151406.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-17		07/19/2019 04:56	1	U33151407.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/19/2019 05:19	1		RXI-5Sil MS(0.5 0.25 (mm))
480-156213-19		07/19/2019 05:43	1	U33151409.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/19/2019 06:06	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/19/2019 11:37	1		RXI-5Sil MS(0.5 0.25 (mm))

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973U Start Date: 07/21/2019 14:10

Analysis Batch Number: 482965 End Date: 07/21/2019 20:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-482965/2		07/21/2019 14:10	1	U33151419.D	RXI-5Sil MS(0.5 0.25 (mm))
CCVIS 480-482965/3		07/21/2019 14:38	1	U33151420.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/21/2019 15:04	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/21/2019 15:28	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/21/2019 15:52	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/21/2019 16:16	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/21/2019 16:40	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		07/21/2019 17:05	1		RXI-5Sil MS(0.5 0.25 (mm))
480-156213-3		07/21/2019 17:29	5	U33151427.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-4		07/21/2019 17:53	5	U33151428.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-5		07/21/2019 18:17	10	U33151429.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-6		07/21/2019 18:40	5	U33151430.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-11		07/21/2019 19:04	10	U33151431.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-12		07/21/2019 19:28	10	U33151432.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-13		07/21/2019 19:51	5	U33151433.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-15		07/21/2019 20:15	5	U33151434.D	RXI-5Sil MS(0.5 0.25 (mm))
480-156213-18		07/21/2019 20:38	5	U33151435.D	RXI-5Sil MS(0.5 0.25 (mm))

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Batch Number: 482507 Batch Start Date: 07/17/19 15:16 Batch Analyst: Gruning, Anton TBatch Method: 3510C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP_SIM LCS 00007	OP_SimSurr 00016
MB 480-482507/1		3510C, 8270D SIM ID		1000 mL	1 mL	7 SU	<2 SU		1 mL
LCS 480-482507/2		3510C, 8270D SIM ID		1000 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-156213-A-14 MS	356023-MW6B	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-156213-B-14 MSD	356023-MW6B	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-156213-A-14	356023-MW6B	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-1	356023-MW8B	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-2	356023-MW8BD	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-A-3	356023-MW16	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-4	356023-MW14B 150	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-5	356023-MW12B 190	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-6	356023-MW11B	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-A-7	356023-MW11C	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-8	356023-MW1801	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-A-9	356023-MW1802	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-10	356023-MW1803	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-11	356023-MW5B	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-A-12	356023-ERT4	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-13	356023-MW4	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-A-15	356023-MW15B	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-16	356023-EB1	3510C, 8270D SIM ID	T	1000 mL	1 mL	6 SU	<2 SU		1 mL
480-156213-A-17	356023-MW1B	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Batch Number: 482507 Batch Start Date: 07/17/19 15:16 Batch Analyst: Gruning, Anton T

Batch Method: 3510C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP_SIM LCS 00007	OP_SimSurr 00016
480-156213-A-18	356023-MW5R	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL
480-156213-B-19	356023-MW7R	3510C, 8270D SIM ID	T	1000 mL	1 mL	7 SU	<2 SU		1 mL

Batch Notes	
Acid Used for pH Adjustment ID	5303999
Analyst ID - Concentration	AG, AP
Analyst ID - Extraction	AG, AP
Method/Fraction	3510C/8270D_SIM_MS_ID
Na2SO4 ID	5393118
Prep Solvent ID	5391690
Prep Solvent Volume Used	180 mL
Analyst ID - Spike Analyst	AG
Analyst ID - Spike Witness Analyst	AG
Sufficient Volume for Batch QC	Yes
Vial Lot Number	1709111094

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# PFC\_IDA

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## Fluorinated Alkyl Substances

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	PFBS #	PFHxA #	PFHpA #	PFHxS #	M262FTS #	PFOA #
356023-MW8B	480-156213-1	92	92	87	93	93	88	89	80
356023-MW8BD	480-156213-2	76	80	93	80	83	89	104	79
356023-MW16	480-156213-3	94	90	90	90	95	88	95	82
356023-MW14B 150	480-156213-4	78	86	88	91	91	92	101	83
356023-MW12B 190	480-156213-5	75	82	86	91	91	88	98	81
356023-MW11B	480-156213-6	93	94	96	97	96	97	108	92
356023-MW11C	480-156213-7	87	95	97	94	95	91	101	90
356023-MW5B	480-156213-11	79	84	94	85	87	94	105	84
356023-ERT4	480-156213-12	76	90	95	89	92	90	99	86
356023-MW4	480-156213-13	69	85	89	88	90	88	103	90
356023-MW6B	480-156213-14	78	86	84	90	87	92	104	82
356023-MW15B	480-156213-15	81	87	92	88	96	94	105	91
356023-EB1	480-156213-16	97	94	89	94	95	89	99	90
356023-MW1B	480-156213-17	58	81	86	85	92	85	107	87
356023-MW5R	480-156213-18	84	85	89	82	90	87	101	80
356023-MW7R	480-156213-19	77	76	86	77	82	87	95	79
	MB 200-145382/1-A	94	92	90	95	93	89	101	89
	LCS 200-145382/2-A	104	102	96	100	100	93	102	87
356023-MW6B MS	480-156213-14 MS	82	88	93	88	90	94	104	85
356023-MW6B MSD	480-156213-14 MSD	83	86	101	89	92	90	109	81

QC LIMITS

PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
PFBS = 13C3 PFBS	50-150
PFHxA = 13C2 PFHxA	50-150
PFHxS = 18O2 PFHxS	50-150
PFHpA = 13C4 PFHpA	50-150
M262FTS = M2-6:2 FTS	25-150
PFOA = 13C4 PFOA	50-150

# Column to be used to flag recovery values

FORM II 537 (modified)

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFDA #	M282FTS #	PFOSA #	d3NMFOS #	PFUnA #	d5NEFOS #
356023-MW8B	480-156213-1	83	89	90	99	72	66	88	67
356023-MW8BD	480-156213-2	79	83	79	101	58	63	78	60
356023-MW16	480-156213-3	88	88	85	102	78	67	88	72
356023-MW14B 150	480-156213-4	83	83	84	104	75	63	84	64
356023-MW12B 190	480-156213-5	74	78	80	93	73	62	75	57
356023-MW11B	480-156213-6	94	94	91	97	85	74	88	71
356023-MW11C	480-156213-7	88	92	94	110	79	75	90	66
356023-MW5B	480-156213-11	80	90	85	97	68	62	75	62
356023-ERT4	480-156213-12	82	90	91	102	80	65	88	66
356023-MW4	480-156213-13	81	90	93	105	79	70	89	65
356023-MW6B	480-156213-14	83	80	89	96	74	61	79	64
356023-MW15B	480-156213-15	86	86	90	101	69	68	85	68
356023-EB1	480-156213-16	90	94	101	109	67	72	91	68
356023-MW1B	480-156213-17	81	85	92	109	77	69	87	69
356023-MW5R	480-156213-18	82	82	85	91	60	60	77	64
356023-MW7R	480-156213-19	80	78	76	103	55	57	76	59
	MB 200-145382/1-A	90	94	102	111	73	82	94	79
	LCS 200-145382/2-A	99	104	104	117	70	76	93	71
356023-MW6B MS	480-156213-14 MS	89	86	87	111	74	64	86	67
356023-MW6B MSD	480-156213-14 MSD	86	83	85	104	71	64	80	65

QC LIMITS

PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
PFDA = 13C2 PFDA	50-150
M282FTS = M2-8:2 FTS	25-150
PFOSA = 13C8 FOSA	25-150
d3NMFOS = d3-NMeFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	50-150

# Column to be used to flag recovery values

FORM II 537 (modified)



FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDa #	PFTDA #
356023-MW8B	480-156213-1	81	63
356023-MW8BD	480-156213-2	78	66
356023-MW16	480-156213-3	85	66
356023-MW14B 150	480-156213-4	77	68
356023-MW12B 190	480-156213-5	66	60
356023-MW11B	480-156213-6	82	65
356023-MW11C	480-156213-7	78	65
356023-MW5B	480-156213-11	73	63
356023-ERT4	480-156213-12	78	61
356023-MW4	480-156213-13	78	60
356023-MW6B	480-156213-14	77	61
356023-MW15B	480-156213-15	82	64
356023-EB1	480-156213-16	76	61
356023-MW1B	480-156213-17	79	64
356023-MW5R	480-156213-18	72	61
356023-MW7R	480-156213-19	71	59
	MB 200-145382/1-A	96	65
	LCS 200-145382/2-A	79	59
356023-MW6B MS	480-156213-14 MS	83	67
356023-MW6B MSD	480-156213-14 MSD	87	63

PFDa = 13C2 PFDa  
PFTDA = 13C2 PFTeDA

QC LIMITS  
50-150  
50-150

# Column to be used to flag recovery values

FORM II 537 (modified)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: SC080119E003.d

Lab ID: LCS 200-145382/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	41.6	104	50-150	
Perfluoropentanoic acid (PFPeA)	40.0	39.5	99	50-150	
Perfluorohexanoic acid (PFHxA)	40.0	40.7	102	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	43.2	108	70-130	
Perfluorooctanoic acid (PFOA)	40.0	42.8	107	70-130	
Perfluorononanoic acid (PFNA)	40.0	42.0	105	70-130	
Perfluorodecanoic acid (PFDA)	40.0	40.8	102	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	41.6	104	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	42.4	106	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	45.0	112	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	48.5	121	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	36.5	103	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	36.2	99	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.0	102	50-150	
Perfluorodecanesulfonic acid (PFDS)	38.6	34.9	90	50-150	
Perfluorooctanesulfonic acid (PFOS)	37.1	40.9	110	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	42.1	105	50-150	
13C8 FOSA	100	69.9	70	25-150	
13C4 PFBA	100	104	104	25-150	
13C5 PFPeA	100	102	102	25-150	
13C2 PFHxA	100	100	100	50-150	
13C4 PFHpA	100	99.7	100	50-150	
13C4 PFOA	100	87.2	87	50-150	
13C5 PFNA	100	104	104	50-150	
13C2 PFDA	100	104	104	50-150	
13C2 PFUnA	100	93.0	93	50-150	
13C2 PFDoA	100	79.1	79	50-150	
13C2 PFTeDA	100	58.9	59	50-150	
13C3 PFBS	93.0	89.1	96	50-150	
18O2 PFHxS	94.6	87.7	93	50-150	
13C4 PFOS	95.6	95.1	99	50-150	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	40.0	51.4	128	70-130	

# Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington      Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: SC080119E003.d  
 Lab ID: LCS 200-145382/2-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
N-ethylperfluorooctanesulfonam idoacetic acid (NEtFOSAA)	40.0	52.6	132	70-130	*
d3-NMeFOSAA	100	75.8	76	50-150	
d5-NEtFOSAA	100	70.6	71	50-150	
6:2 FTS	37.9	32.5	86	50-150	
8:2 FTS	38.3	26.1	68	50-150	
M2-6:2 FTS	95.0	96.5	102	25-150	
M2-8:2 FTS	95.8	112	117	25-150	

# Column to be used to flag recovery and RPD values  
 FORM III 537 (modified)

FORM III  
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington      Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: SC080119E016.d  
 Lab ID: 480-156213-14 MS      Client ID: 356023-MW6B MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	36.7	1.6 J	40.2	105	40-160	
Perfluoropentanoic acid (PFPeA)	36.7	2.0	38.9	101	40-160	
Perfluorohexanoic acid (PFHxA)	36.7	1.5 J	38.3	100	40-160	
Perfluoroheptanoic acid (PFHpA)	36.7	ND	41.0	112	40-160	
Perfluorooctanoic acid (PFOA)	36.7	0.92 J	37.9	101	40-160	
Perfluorononanoic acid (PFNA)	36.7	ND	36.9	101	40-160	
Perfluorodecanoic acid (PFDA)	36.7	ND	39.5	108	40-160	
Perfluoroundecanoic acid (PFUnA)	36.7	ND	35.6	97	40-160	
Perfluorododecanoic acid (PFDoA)	36.7	ND	37.8	103	40-160	
Perfluorotridecanoic acid (PFTriA)	36.7	ND	42.7	116	40-160	
Perfluorotetradecanoic acid (PFTeA)	36.7	ND	44.5	121	40-160	
Perfluorobutanesulfonic acid (PFBS)	32.4	ND	32.5	100	40-160	
Perfluorohexanesulfonic acid (PFHxS)	33.4	ND	33.4	100	40-160	
Perfluoroheptanesulfonic Acid (PFHpS)	34.9	ND	38.3	110	40-160	
Perfluorodecanesulfonic acid (PFDS)	35.4	ND	35.1	99	40-160	
Perfluorooctanesulfonic acid (PFOS)	34.0	ND	38.4	113	40-160	
Perfluorooctanesulfonamide (FOSA)	36.7	ND	42.6	116	40-160	
13C8 FOSA	91.7	65	67.9	74	25-150	
13C4 PFBA	91.7	69	75.3	82	25-150	
13C5 PFPeA	91.7	76	80.9	88	25-150	
13C2 PFHxA	91.7	79	80.3	88	50-150	
13C4 PFHpA	91.7	77	82.2	90	50-150	
13C4 PFOA	91.7	72	77.7	85	50-150	
13C5 PFNA	91.7	70	79.3	86	50-150	
13C2 PFDA	91.7	78	79.5	87	50-150	
13C2 PFUnA	91.7	69	78.8	86	50-150	
13C2 PFDoA	91.7	68	76.4	83	50-150	
13C2 PFTeDA	91.7	53	61.2	67	50-150	
13C3 PFBS	85.3	69	79.2	93	50-150	
18O2 PFHxS	86.7	76	81.3	94	50-150	
13C4 PFOS	87.6	70	78.2	89	50-150	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	36.7	ND	43.6	119	40-160	

# Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III  
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: SC080119E016.d  
 Lab ID: 480-156213-14 MS Client ID: 356023-MW6B MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
N-ethylperfluorooctanesulfonam idoacetic acid (NEtFOSAA)	36.7	ND	45.7	125	40-160	
d3-NMeFOSAA	91.7	54	59.1	64	50-150	
d5-NEtFOSAA	91.7	56	61.9	67	50-150	
6:2 FTS	34.8	ND	26.9	77	40-160	
8:2 FTS	35.1	ND	25.6	73	40-160	
M2-6:2 FTS	87.1	87	90.8	104	25-150	
M2-8:2 FTS	87.8	81	97.7	111	25-150	

# Column to be used to flag recovery and RPD values  
 FORM III 537 (modified)

FORM III  
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: SC080119E017.d

Lab ID: 480-156213-14 MSD Client ID: 356023-MW6B MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	34.7	38.4	106	5	30	40-160	
Perfluoropentanoic acid (PFPeA)	34.7	39.1	107	0	30	40-160	
Perfluorohexanoic acid (PFHxA)	34.7	38.0	105	1	20	40-160	
Perfluoroheptanoic acid (PFHpA)	34.7	38.5	111	6	20	40-160	
Perfluorooctanoic acid (PFOA)	34.7	39.7	112	5	20	40-160	
Perfluorononanoic acid (PFNA)	34.7	39.3	113	6	20	40-160	
Perfluorodecanoic acid (PFDA)	34.7	39.1	112	1	20	40-160	
Perfluoroundecanoic acid (PFUnA)	34.7	33.6	97	6	20	40-160	
Perfluorododecanoic acid (PFDoA)	34.7	35.3	102	7	20	40-160	
Perfluorotridecanoic acid (PFTriA)	34.7	34.9	100	20	20	40-160	
Perfluorotetradecanoic acid (PFTeA)	34.7	43.5	125	2	20	40-160	
Perfluorobutanesulfonic acid (PFBS)	30.7	30.1	98	8	20	40-160	
Perfluorohexanesulfonic acid (PFHxS)	31.6	33.8	107	1	20	40-160	
Perfluoroheptanesulfonic Acid (PFHpS)	33.1	40.9	124	7	30	40-160	
Perfluorodecanesulfonic acid (PFDS)	33.5	34.1	102	3	30	40-160	
Perfluorooctanesulfonic acid (PFOS)	32.2	37.3	116	3	20	40-160	
Perfluorooctanesulfonamide (FOSA)	34.7	41.4	119	3	30	40-160	
13C8 FOSA	86.9	61.6	71			25-150	
13C4 PFBA	86.9	71.7	83			25-150	
13C5 PFPeA	86.9	75.0	86			25-150	
13C2 PFHxA	86.9	76.9	89			50-150	
13C4 PFHpA	86.9	80.1	92			50-150	
13C4 PFOA	86.9	70.5	81			50-150	
13C5 PFNA	86.9	71.8	83			50-150	
13C2 PFDA	86.9	73.6	85			50-150	
13C2 PFUnA	86.9	69.1	80			50-150	
13C2 PFDoA	86.9	76.0	87			50-150	
13C2 PFTeDA	86.9	54.7	63			50-150	
13C3 PFBS	80.8	81.9	101			50-150	
18O2 PFHxS	82.2	74.2	90			50-150	
13C4 PFOS	83.0	71.5	86			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	34.7	43.0	124	1	20	40-160	

# Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III  
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington      Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: SC080119E017.d  
 Lab ID: 480-156213-14 MSD      Client ID: 356023-MW6B MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
N-ethylperfluorooctanesulfonam idoacetic acid (NEtFOSAA)	34.7	43.5	125	5	20	40-160	
d3-NMeFOSAA	86.9	55.9	64			50-150	
d5-NEtFOSAA	86.9	56.7	65			50-150	
6:2 FTS	32.9	25.4	77	6	30	40-160	
8:2 FTS	33.3	25.6	77	0	30	40-160	
M2-6:2 FTS	82.5	90.1	109			25-150	
M2-8:2 FTS	83.2	86.6	104			25-150	

# Column to be used to flag recovery and RPD values  
 FORM III 537 (modified)

FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: SC080119E002.d Lab Sample ID: MB 200-145382/1-A  
 Matrix: Water Date Extracted: 07/23/2019 10:21  
 Instrument ID: LC812 Date Analyzed: 08/02/2019 03:57  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-145382/2-A	SC080119E00 3.d	08/02/2019 04:05
356023-MW8B	480-156213-1	SC080119E00 4.d	08/02/2019 04:13
356023-MW8BD	480-156213-2	SC080119E00 5.d	08/02/2019 04:21
356023-MW16	480-156213-3	SC080119E00 6.d	08/02/2019 04:29
356023-MW14B 150	480-156213-4	SC080119E00 7.d	08/02/2019 04:37
356023-MW12B 190	480-156213-5	SC080119E00 8.d	08/02/2019 04:45
356023-MW11B	480-156213-6	SC080119E00 9.d	08/02/2019 04:53
356023-MW11C	480-156213-7	SC080119E01 0.d	08/02/2019 05:01
356023-MW5B	480-156213-11	SC080119E01 1.d	08/02/2019 05:09
356023-ERT4	480-156213-12	SC080119E01 3.d	08/02/2019 05:25
356023-MW4	480-156213-13	SC080119E01 4.d	08/02/2019 05:33
356023-MW6B	480-156213-14	SC080119E01 5.d	08/02/2019 05:41
356023-MW6B MS	480-156213-14 MS	SC080119E01 6.d	08/02/2019 05:49
356023-MW6B MSD	480-156213-14 MSD	SC080119E01 7.d	08/02/2019 05:57
356023-MW15B	480-156213-15	SC080119E01 8.d	08/02/2019 06:06
356023-EB1	480-156213-16	SC080119E01 9.d	08/02/2019 06:14
356023-MW1B	480-156213-17	SC080119E02 0.d	08/02/2019 06:22
356023-MW5R	480-156213-18	SC080119E02 1.d	08/02/2019 06:30
356023-MW7R	480-156213-19	SC080119E02 2.d	08/02/2019 06:38



FORM VIII  
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-145525/20 Date Analyzed: 07/26/2019 11:18  
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)  
 Lab File ID (Standard): SC072619A020.d Heated Purge: (Y/N) N  
 Calibration ID: 42108

	13PFOA					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	5272519	3.44				
UPPER LIMIT	7908779	3.64				
LOWER LIMIT	2636260	3.24				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-145525/24		4870975	3.44			

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area  
 RT Limit = ± 0.2 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII  
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCV 200-145757/3 Date Analyzed: 08/01/2019 14:34  
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)  
 Lab File ID (Standard): SC080119A003.d Heated Purge: (Y/N) N  
 Calibration ID: 42108

	13PFOA		AREA #	RT #	AREA #	RT #	AREA #	RT #
	AREA #	RT #						
12/24 HOUR STD	5017980	3.28						
UPPER LIMIT	7526970	3.48						
LOWER LIMIT	2508990	3.08						
LAB SAMPLE ID	CLIENT SAMPLE ID							
CCV 200-145761/1		4736674	3.36					
MB 200-145382/1-A		4005864	3.35					
LCS 200-145382/2-A		3897003	3.36					
480-156213-1	356023-MW8B	3901672	3.35					
480-156213-2	356023-MW8BD	3662065	3.35					
480-156213-3	356023-MW16	4481285	3.36					
480-156213-4	356023-MW14B 150	4152473	3.36					
480-156213-5	356023-MW12B 190	3991536	3.35					
480-156213-6	356023-MW11B	3951300	3.36					
480-156213-7	356023-MW11C	3823047	3.36					
480-156213-11	356023-MW5B	4189298	3.36					
CCV 200-145761/12		4523669	3.36					
480-156213-12	356023-ERT4	3750236	3.35					
480-156213-13	356023-MW4	3960360	3.36					
480-156213-14	356023-MW6B	4417701	3.36					
480-156213-14 MS	356023-MW6B MS	4360226	3.36					
480-156213-14 MSD	356023-MW6B MSD	4149672	3.36					
480-156213-15	356023-MW15B	4110045	3.37					
480-156213-16	356023-EB1	4067662	3.37					
480-156213-17	356023-MW1B	4020529	3.37					
480-156213-18	356023-MW5R	3846735	3.36					
480-156213-19	356023-MW7R	4091619	3.37					
CCV 200-145761/24		4510697	3.37					

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area  
 RT Limit = ± 0.2 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8B Lab Sample ID: 480-156213-1  
 Matrix: Water Lab File ID: SC080119E004.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 13:20  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 292.2 (mL) Date Analyzed: 08/02/2019 04:13  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.7	0.86
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78
335-67-1	Perfluorooctanoic acid (PFOA)	0.56	J	1.7	0.54
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.66
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.45
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.50
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.51
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.68
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.81
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.53	J	1.7	0.52
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.6	8.6
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	17	1.3
27619-97-2	6:2 FTS	ND		17	3.9
39108-34-4	8:2 FTS	ND		17	2.5

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8B Lab Sample ID: 480-156213-1  
 Matrix: Water Lab File ID: SC080119E004.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 13:20  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 292.2 (mL) Date Analyzed: 08/02/2019 04:13  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	72		25-150
STL00992	13C4 PFBA	92		25-150
STL01893	13C5 PFPeA	92		25-150
STL00993	13C2 PFHxA	93		50-150
STL01892	13C4 PFHpA	93		50-150
STL00990	13C4 PFOA	80		50-150
STL00995	13C5 PFNA	89		50-150
STL00996	13C2 PFDA	90		50-150
STL00997	13C2 PFUnA	88		50-150
STL00998	13C2 PFDoA	81		50-150
STL02116	13C2 PFTeDA	63		50-150
STL02337	13C3 PFBS	87		50-150
STL00994	18O2 PFHxS	88		50-150
STL00991	13C4 PFOS	83		50-150
STL02118	d3-NMeFOSAA	66		50-150
STL02117	d5-NEtFOSAA	67		50-150
STL02279	M2-6:2 FTS	89		25-150
STL02280	M2-8:2 FTS	99		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
 Lims ID: 480-156213-F-1-A  
 Client ID: 356023-MW8B  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 04:13:25 ALS Bottle#: 51 Worklist Smp#: 4  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-1-A  
 Misc. Info.: 200-0037095-004 Plate: 1 Rack: 4  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 16:35:59  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.507	3399477	46.2	92.5	10830	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.708	1.699	0.009	1.005	14849	0.2370		2.4		M
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.616	3181008	46.1	92.1	7540	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.054	2.067	-0.013	0.994	7975	0.1295		0.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.080	2.080	0.0	0.620	2756744	40.6	87.4	524379	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.093	2.093	0.0	1.006	12104	0.2008	Target=1.90	16.9		
298.90 > 99.00	2.093	2.093	0.0	1.006	7555		1.60(0.95-2.85)	7.7		
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.733	3182696	46.4	92.8	6935	
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.873	1658736	41.7	88.3	6061	
D 9 13C4 PFHpA	367.00 > 322.00	2.928	2.928	0.0	0.873	3127057	46.5	93.1	7102	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.928	2.928	0.0	1.000	9933	0.2149	Target=3.37	13.8		
399.00 > 99.00	2.939	2.928	0.011	1.004	3786		2.62(1.69-5.06)	4.0		M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.928	2.928	0.0	1.000	4621	0.0789	Target=3.76	1.5		M
363.00 > 169.00	2.928	2.928	0.0	1.000	1442		3.20(1.88-5.65)	5.7		M
D 12 M2-6:2 FTS	429.00 > 81.00	3.344	3.335	0.009	0.997	349543	42.3	89.0	783	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfoni	427.00 > 407.00	3.344	3.336	0.008	1.000	16790	1.33		26.3	
D 14 13C4 PFOA	417.00 > 372.00	3.354	3.344	0.010	1.000	2850594	40.2		80.3	9330
16 Perfluoroheptanesulfonic acid	449.00 > 80.00	3.344	3.345	-0.001	0.903	1190	0.0358	Target=4.80	5.5	M
	449.00 > 99.00	3.344	3.345	-0.001	0.903	509		2.34(2.40-7.20)	2.9	M
15 Perfluorooctanoic acid	413.00 > 369.00	3.354	3.355	-0.001	1.000	20319	0.3275	Target=2.84	2.5	M
	413.00 > 169.00	3.354	3.355	-0.001	1.000	8377		2.43(1.42-4.25)	22.9	M
* 62 13C2 PFOA	415.00 > 370.00	3.354	3.355	-0.001		3901672	50.0			11847
D 18 13C4 PFOS	503.00 > 80.00	3.705	3.695	0.010	1.105	1317548	39.8		83.3	4714
17 Perfluorooctanesulfonic acid	499.00 > 80.00	3.705	3.703	0.002	1.000	8141	0.3120	Target=4.33	26.7	M
	499.00 > 99.00	3.695	3.703	-0.008	0.997	1417		5.75(2.16-6.49)	3.4	M
D 19 13C5 PFNA	468.00 > 423.00	3.725	3.715	0.010	1.111	2883564	44.5		89.1	10273
20 Perfluorononanoic acid	463.00 > 419.00	3.735	3.723	0.012	1.003	3986	0.0763	Target=8.15	1.6	M
	463.00 > 169.00	3.735	3.723	0.012	1.003	712		5.60(4.08-12.23)	9.9	M
D 23 13C2 PFDA	515.00 > 470.00	4.036	4.036	0.0	1.204	2337591	45.1		90.3	8126
D 26 M2-8:2 FTS	529.00 > 81.00	4.049	4.036	0.013	1.207	360359	47.2		98.6	916
24 Perfluorodecanoic acid	513.00 > 469.00	4.049	4.047	0.002	1.003	3097	0.0684	Target=9.58	1.5	M
	513.00 > 169.00	4.049	4.047	0.002	1.003	636		4.87(4.79-14.37)	7.1	M
25 1H,1H,2H,2H-perfluorodecanesulfoni	527.00 > 507.00	4.061	4.047	0.014	1.003	530	0.0527		6.5	M
D 21 13C8 FOSA	506.00 > 78.00	4.074	4.061	0.013	1.215	2143018	36.0		72.1	4417
22 Perfluorooctanesulfonamide	498.00 > 78.00	4.074	4.072	0.002	1.000	3729	0.0953		21.9	M
D 27 d3-NMeFOSAA	573.00 > 419.00	4.178	4.178	0.0	1.246	217474	32.9		65.8	1983
28 N-methylperfluorooctanesulfonamido	570.00 > 419.00	4.099	4.187	-0.088	0.981	471	0.1431		0.7	M
D 30 13C2 PFUnA	565.00 > 520.00	4.308	4.296	0.012	1.285	2077073	44.0		88.1	13404
31 Perfluoroundecanoic acid	563.00 > 519.00	4.308	4.307	0.001	1.000	5742	0.1611	Target=7.95	2.4	M
	563.00 > 169.00	4.308	4.307	0.001	1.000	947		6.06(3.98-11.93)	10.4	M
D 32 d5-NEtFOSAA	589.00 > 419.00	4.320	4.308	0.012	1.288	245352	33.3		66.6	991

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C2 PFDoA										
615.00 > 570.00	4.550	4.537	0.013	1.357	2064268	40.7		81.3	8249	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.537	4.549	-0.012	0.997	3823	0.0906	Target=7.49		0.5	M
613.00 > 169.00	4.550	4.549	0.001	1.000	618		6.19(3.75-11.24)		9.0	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.483	2201305	31.5		63.0	7531	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.972	4.972	0.0	1.000	563	0.0961	Target=1.02		6.1	
713.00 > 219.00	4.972	4.972	0.0	1.000	449		1.25(0.51-1.54)		8.1	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d

Injection Date: 02-Aug-2019 04:13:25

Instrument ID: LC812

Lims ID: 480-156213-F-1-A

Lab Sample ID: 200-156213-1

Client ID: 356023-MW8B

Operator ID: lc812tech

ALS Bottle#: 51

Worklist Smp#: 4

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

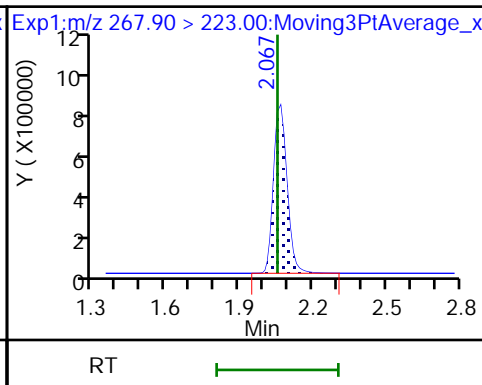
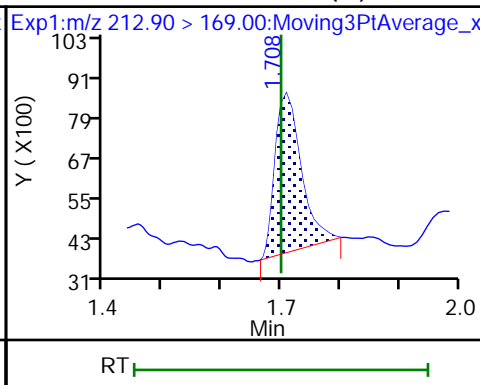
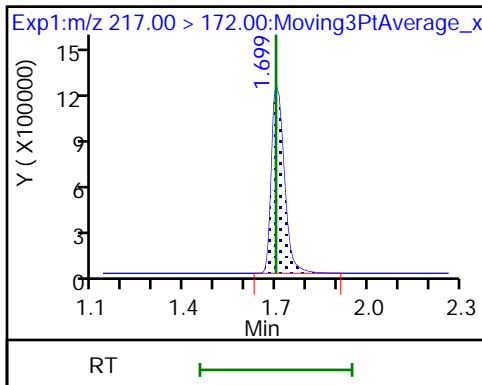
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

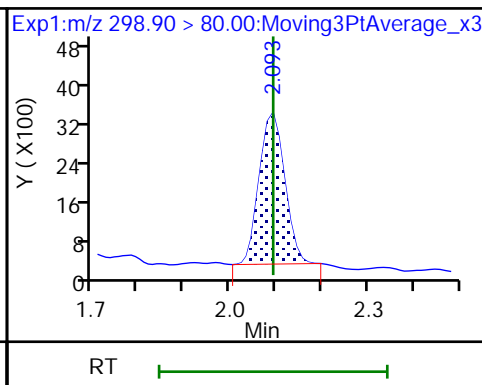
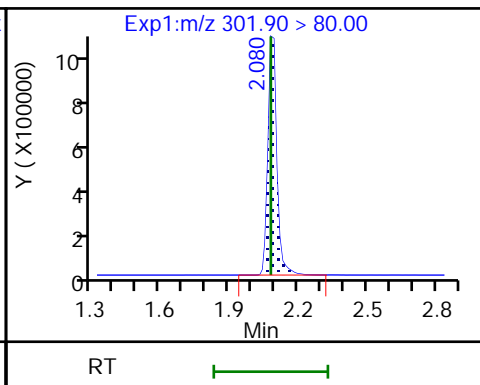
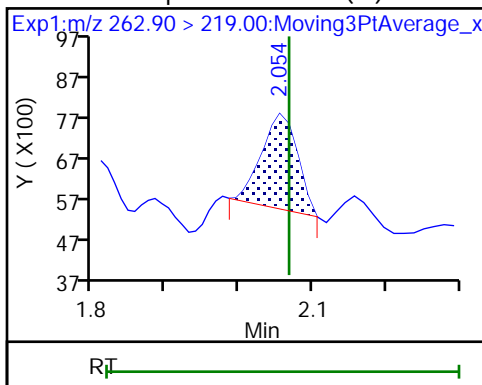
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

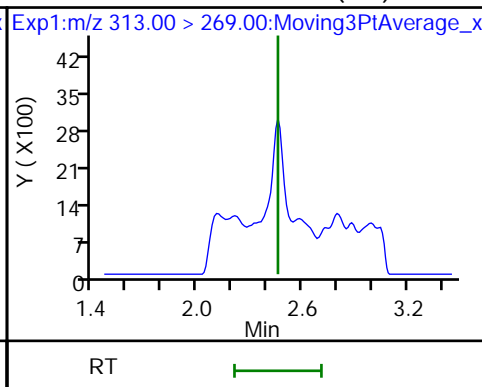
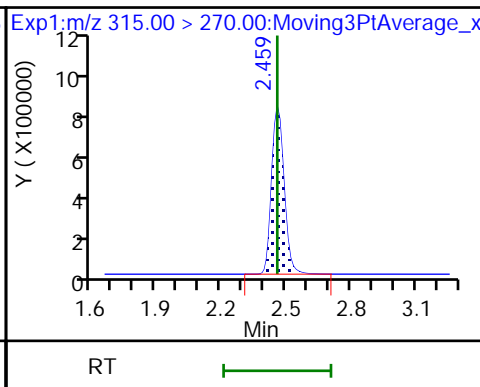
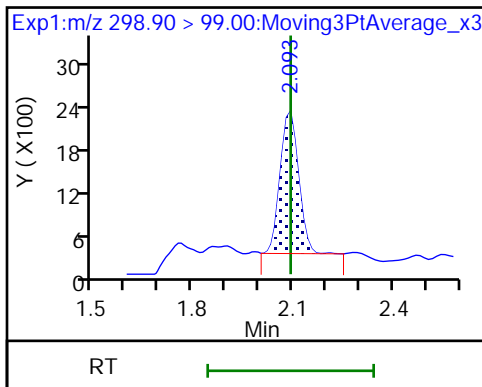
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

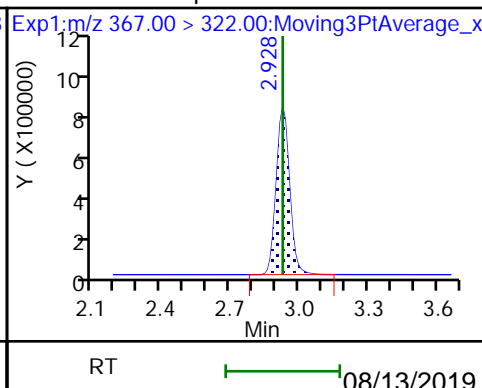
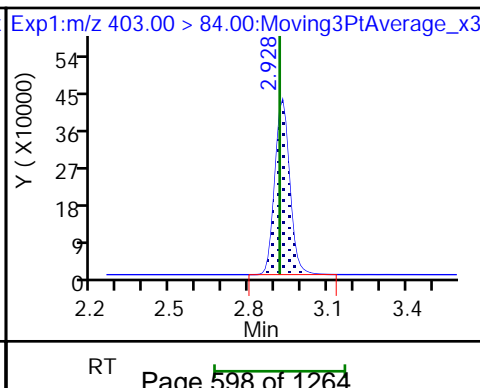
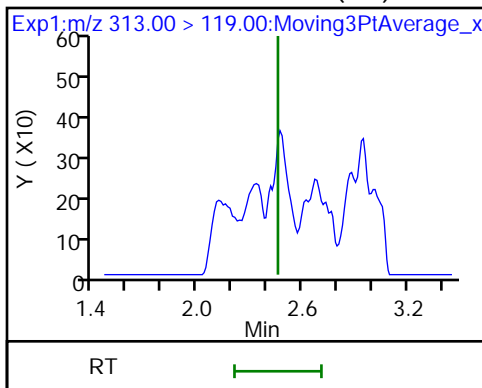
6 Perfluorohexanoic acid (ND)



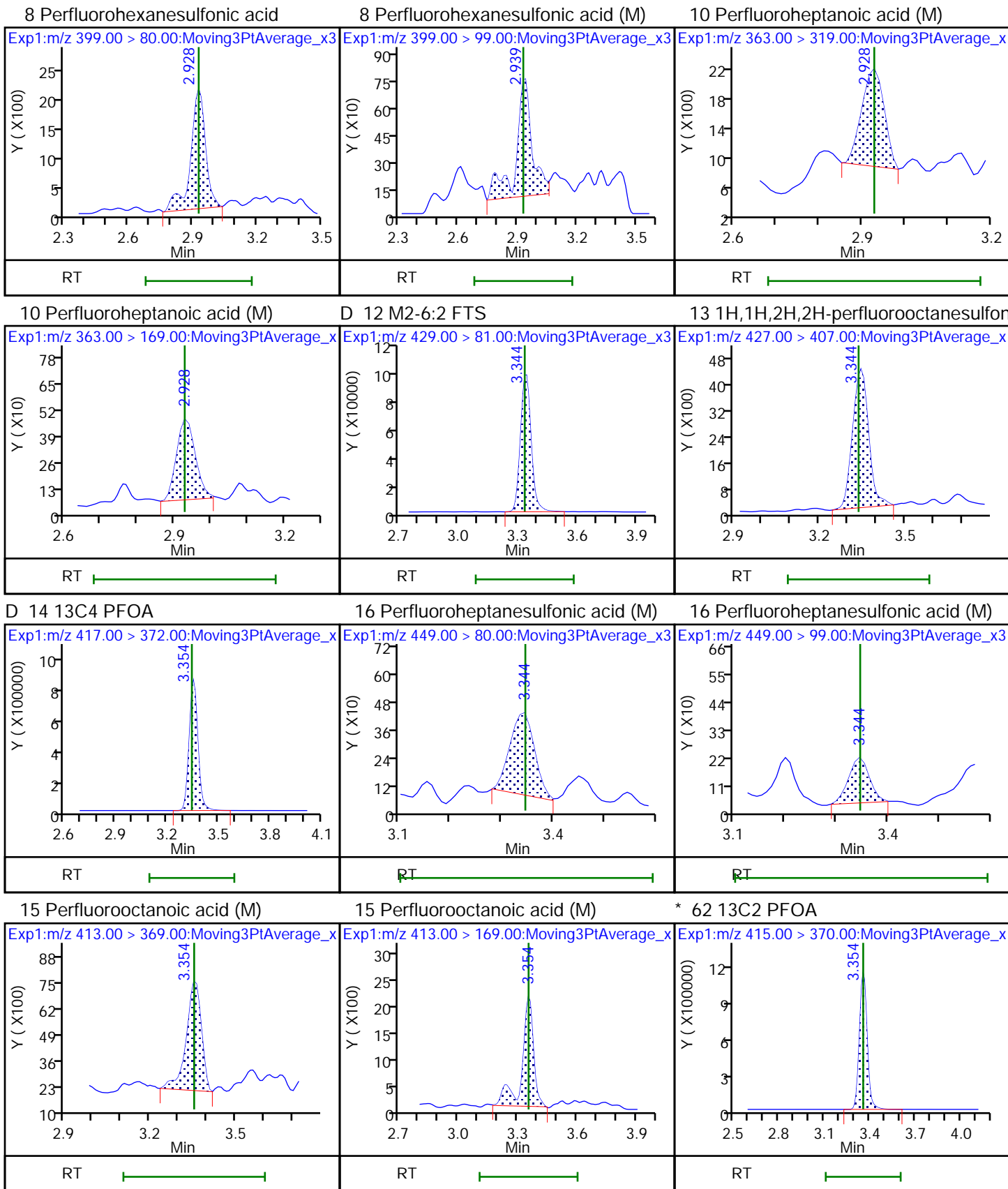
6 Perfluorohexanoic acid (ND)

D 11 18O2 PFHxS

D 9 13C4 PFHpA



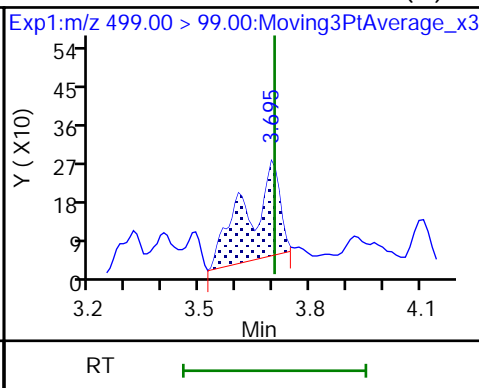
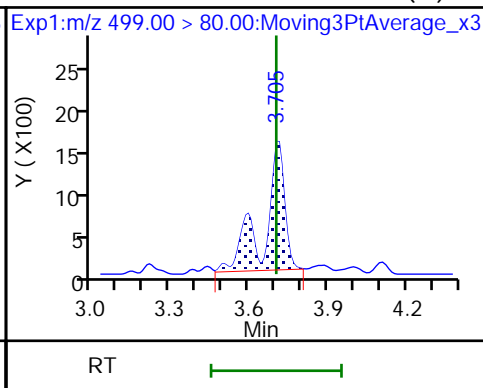
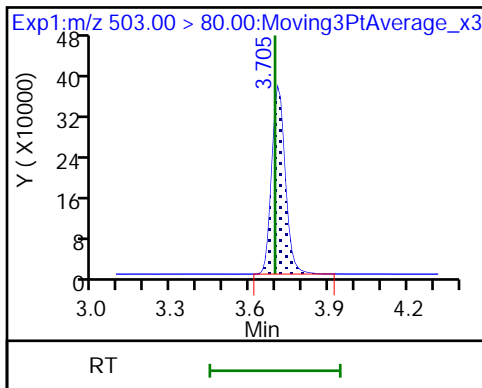




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

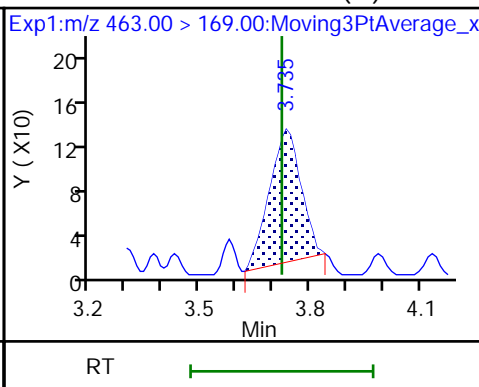
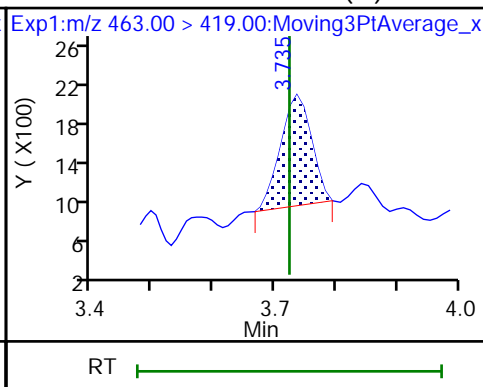
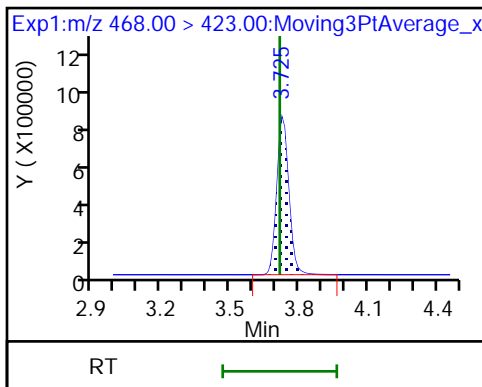
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

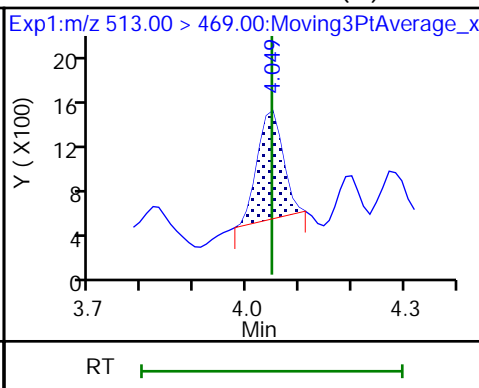
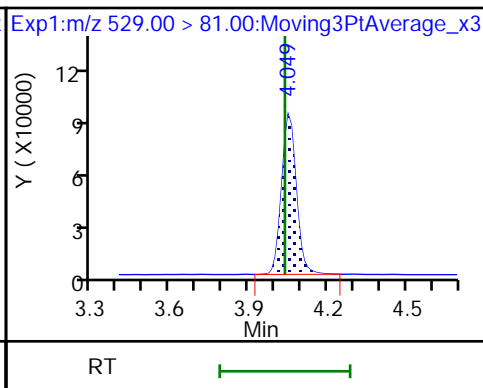
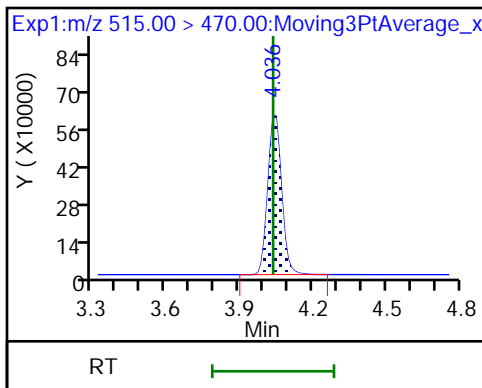
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

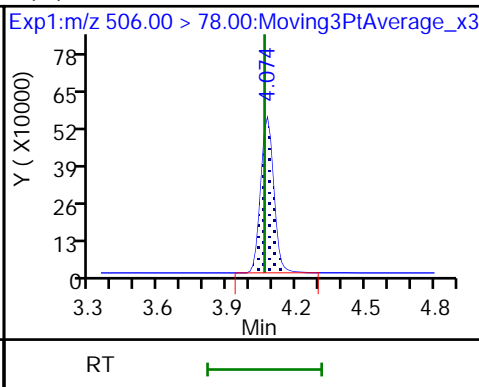
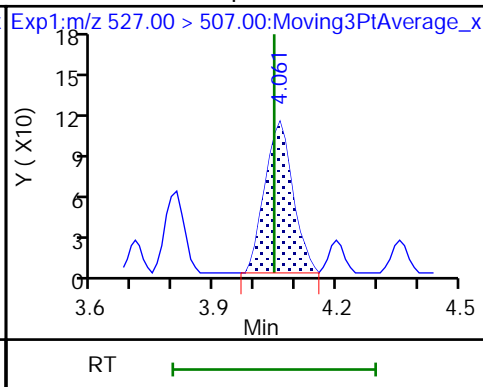
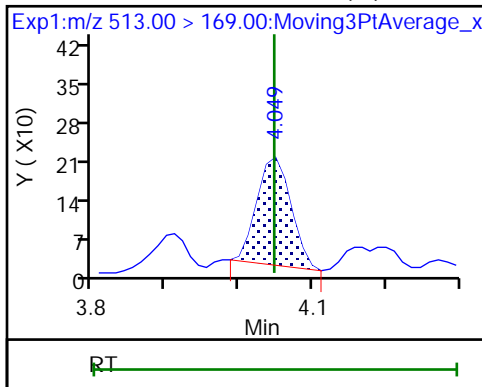
24 Perfluorodecanoic acid (M)



24 Perfluorodecanoic acid (M)

25 1H,1H,2H,2H-perfluorodecanesulfonate (M)

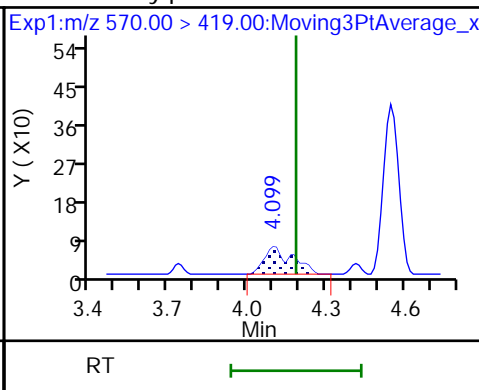
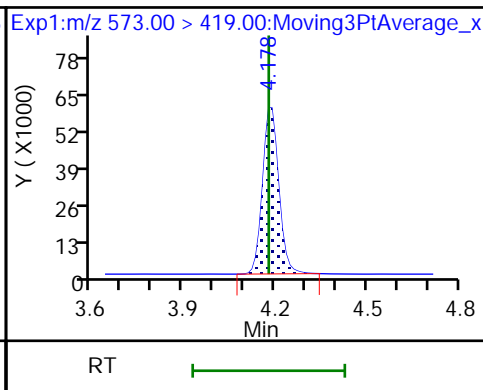
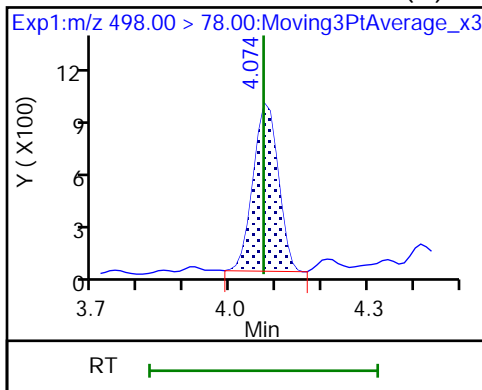
D 27 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

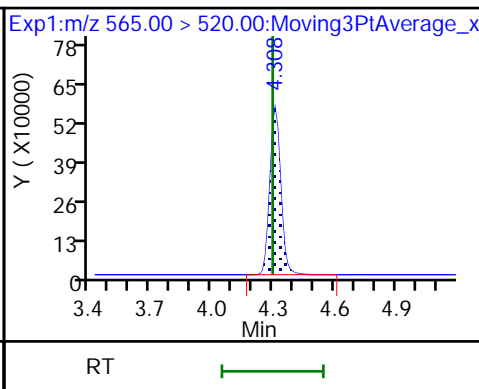
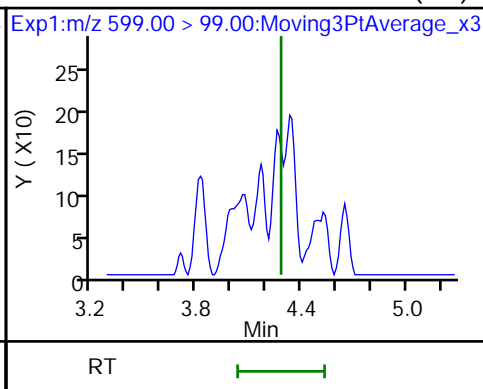
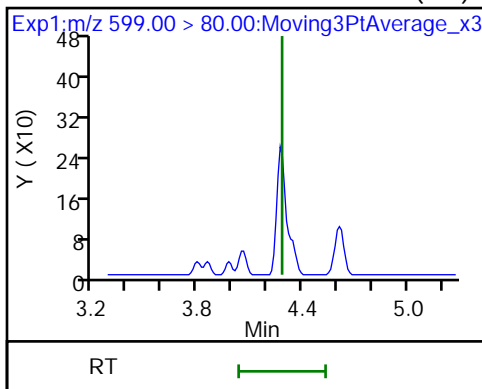
28 N-methylperfluorooctanesulfonamido (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

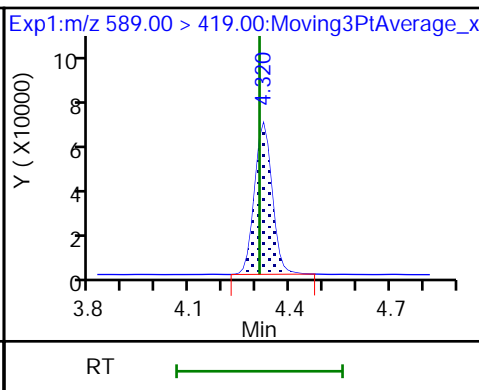
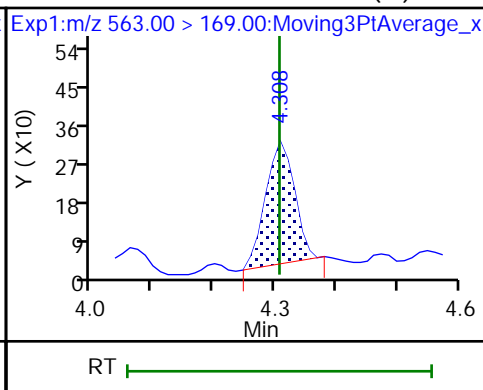
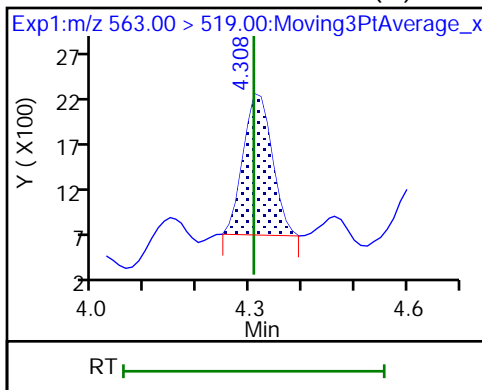
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

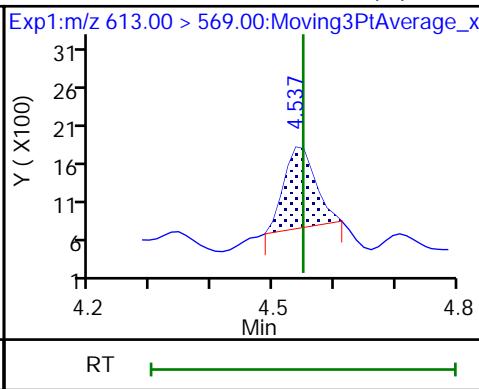
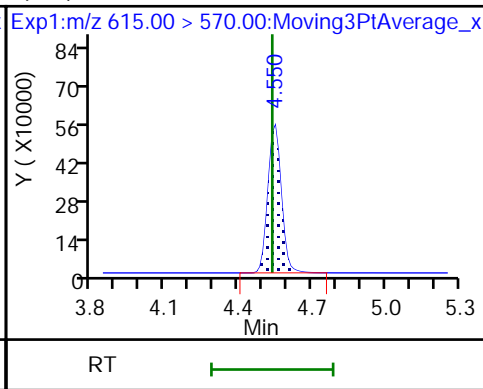
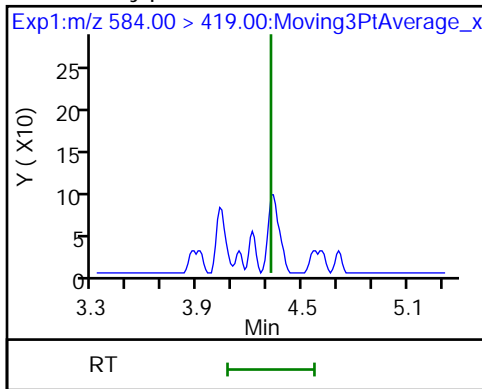
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (M)

D 33 13C2 PFDoA

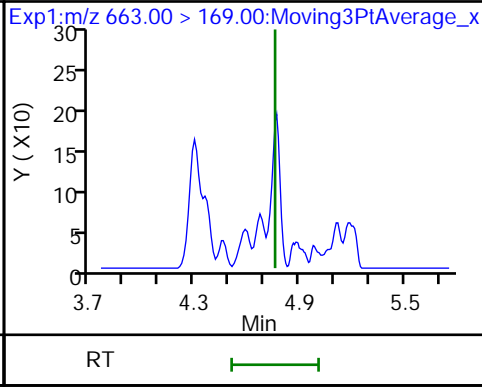
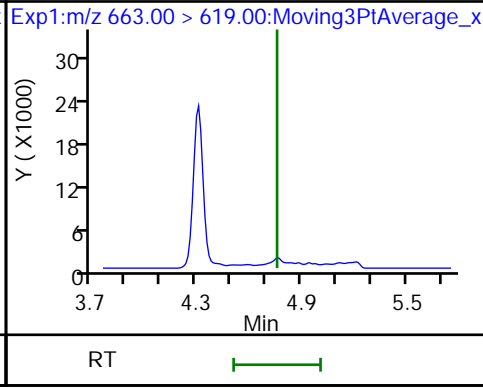
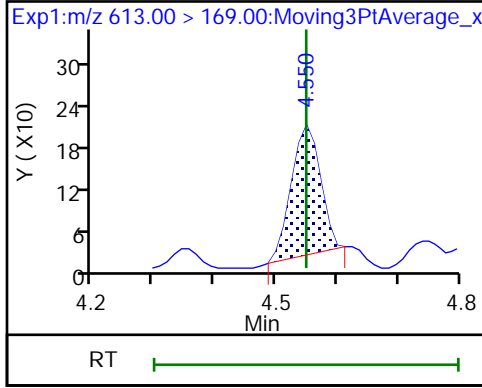
37 Perfluorododecanoic acid (M)



37 Perfluorododecanoic acid (M)

41 Perfluorotridecanoic acid (ND)

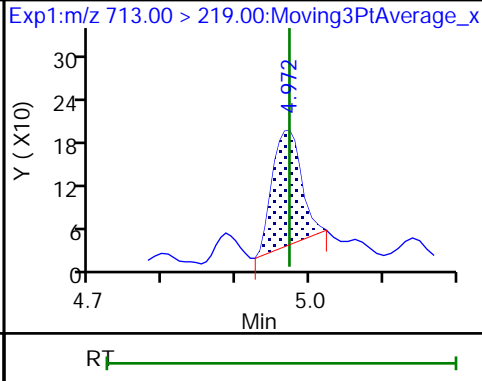
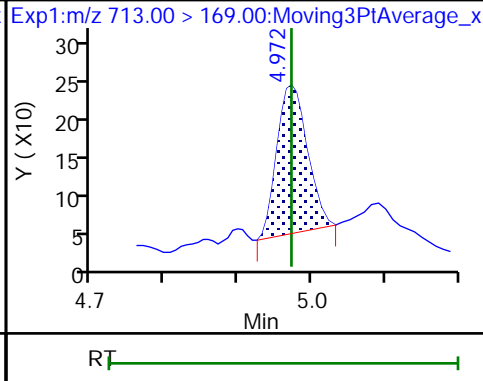
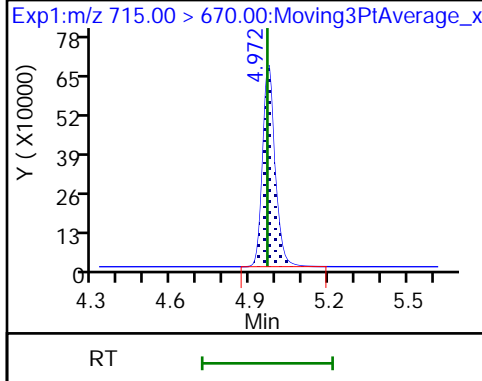
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

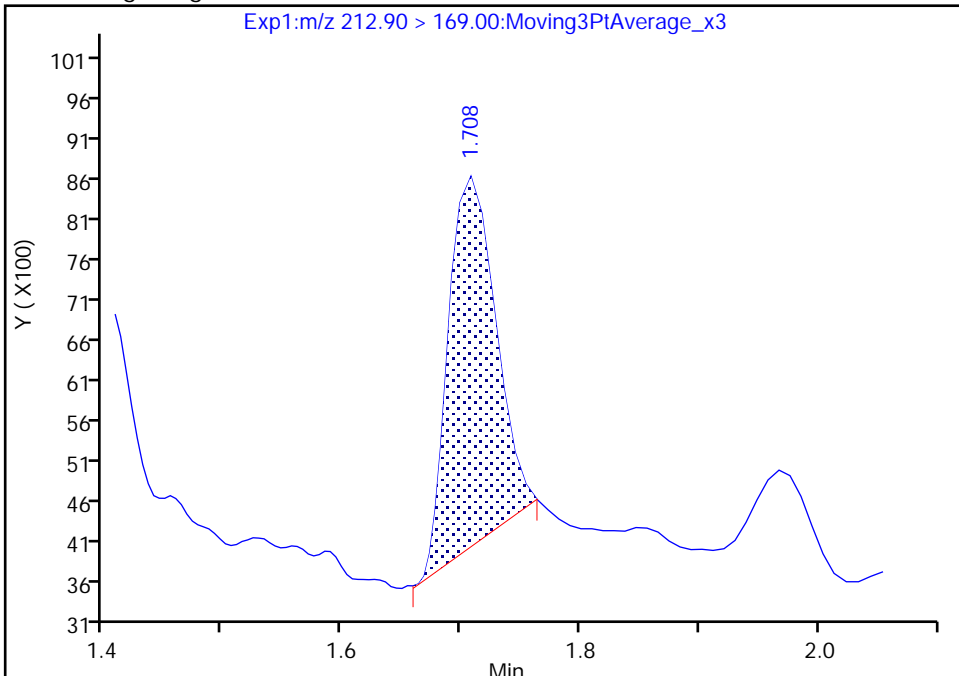
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

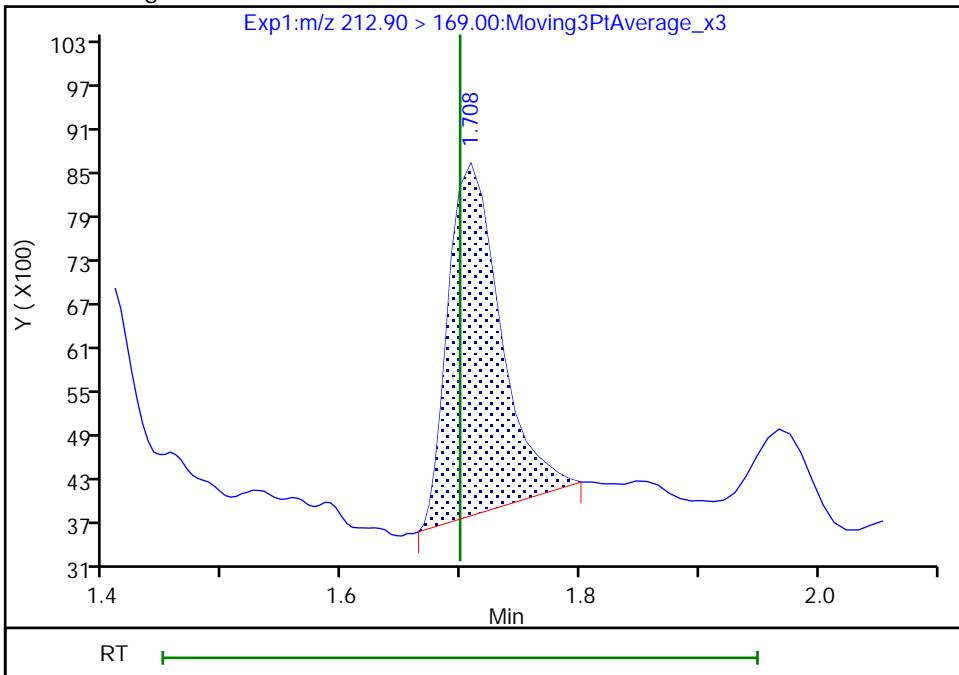
RT: 1.71  
Area: 12705  
Amount: 0.202752  
Amount Units: ng/ml

Processing Integration Results



RT: 1.71  
Area: 14849  
Amount: 0.236967  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:31:22  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

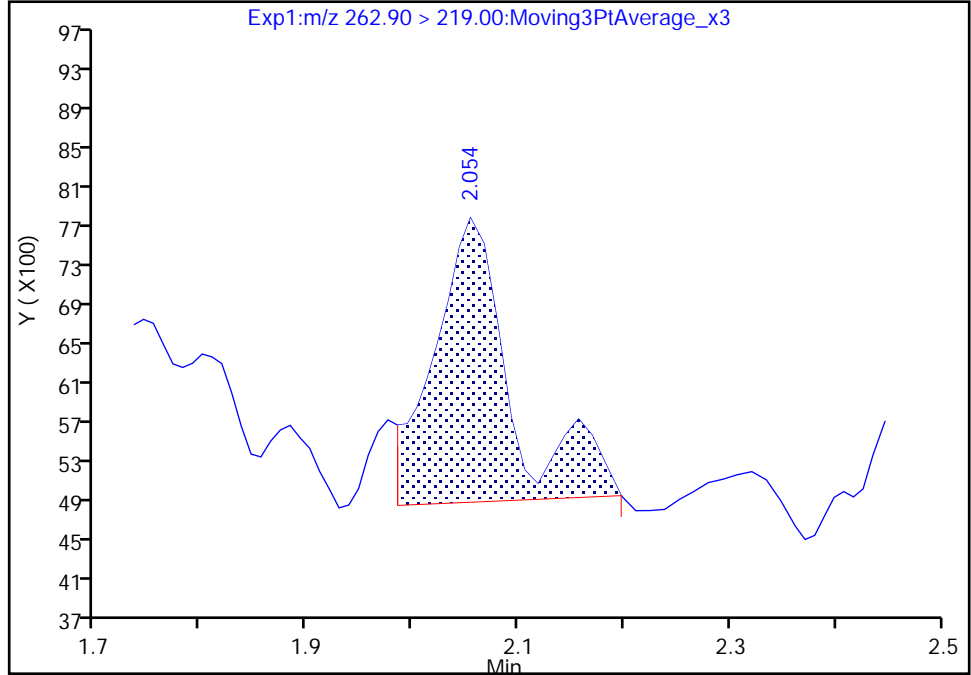
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

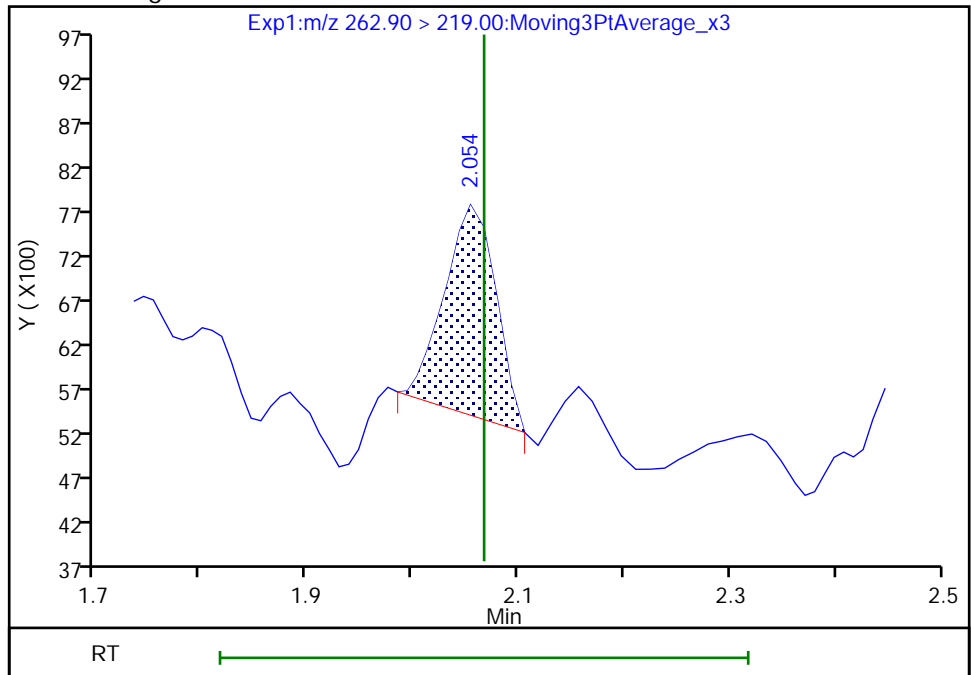
RT: 2.05  
Area: 14384  
Amount: 0.233647  
Amount Units: ng/ml

Processing Integration Results



RT: 2.05  
Area: 7975  
Amount: 0.129542  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:31:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

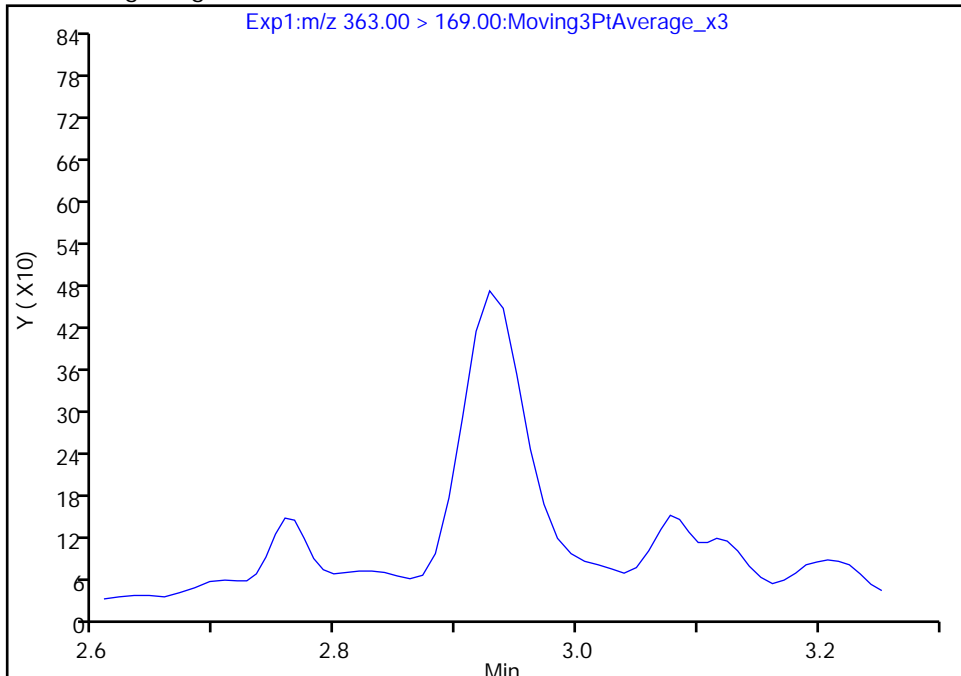
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Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

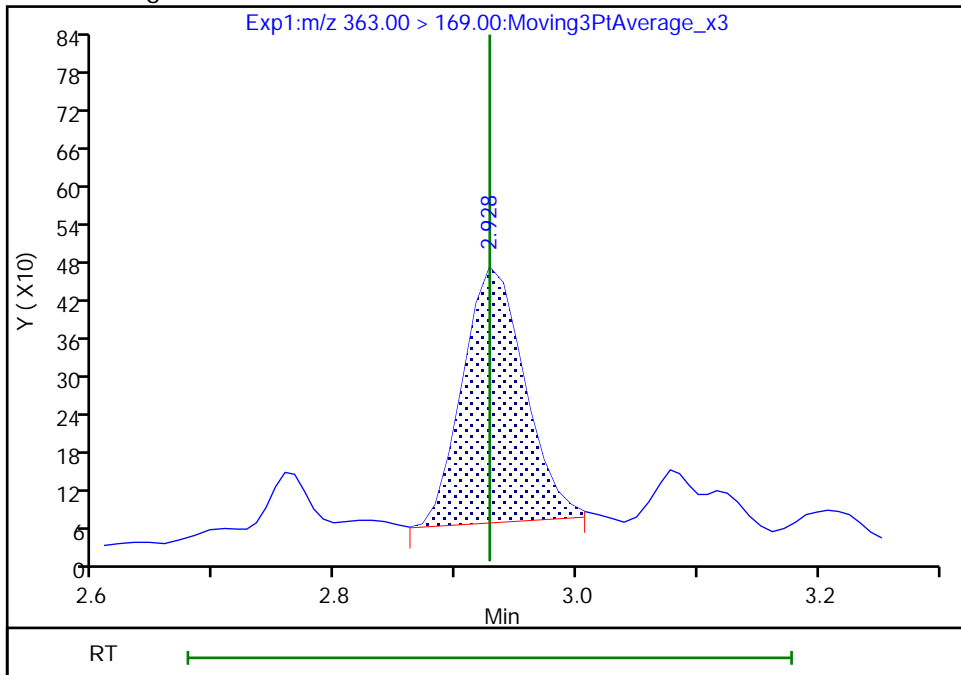
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 1442  
Amount: 0.078885  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:32:40  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

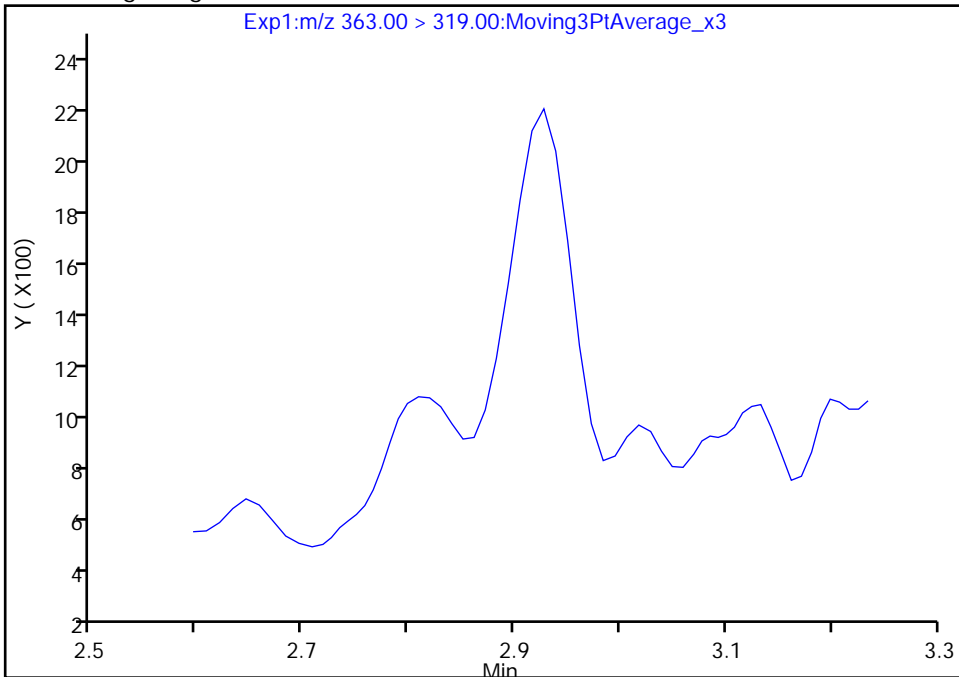
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

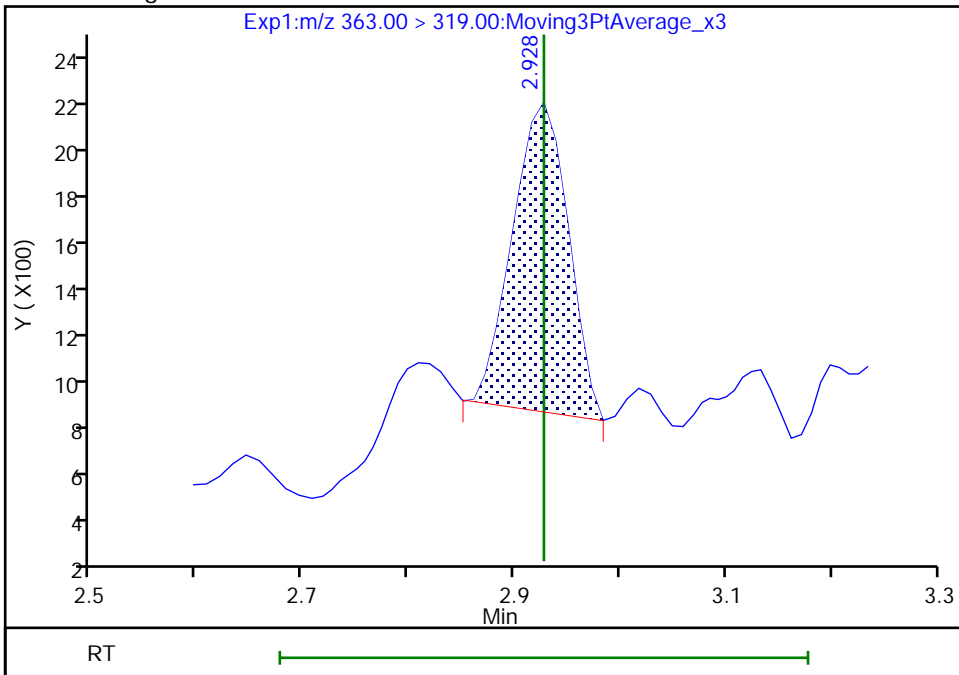
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 4621  
Amount: 0.078885  
Amount Units: ng/ml





Eurofins TestAmerica, Burlington

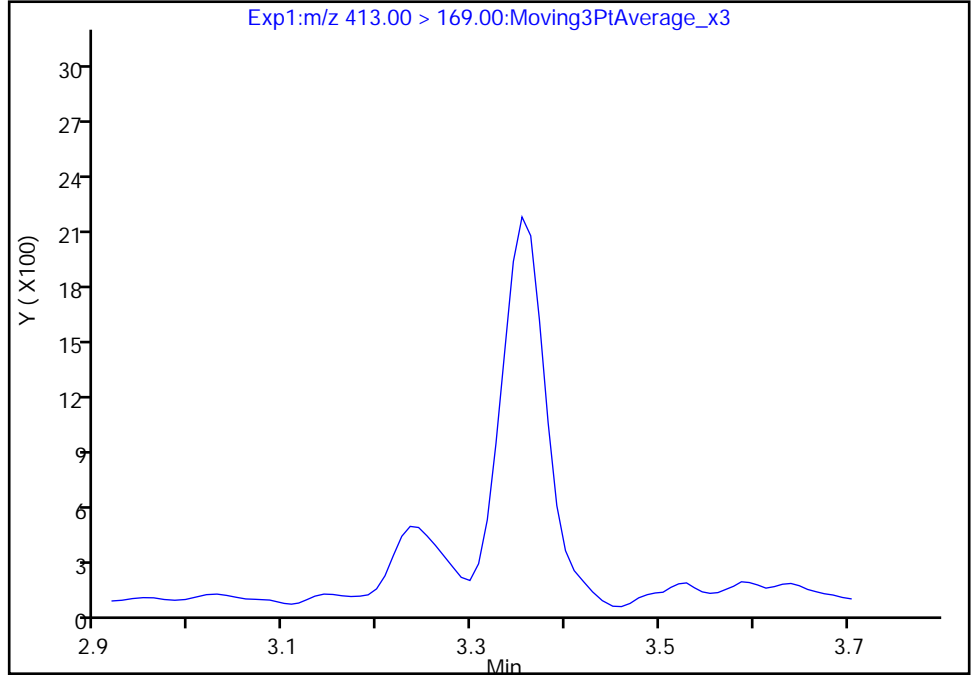
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

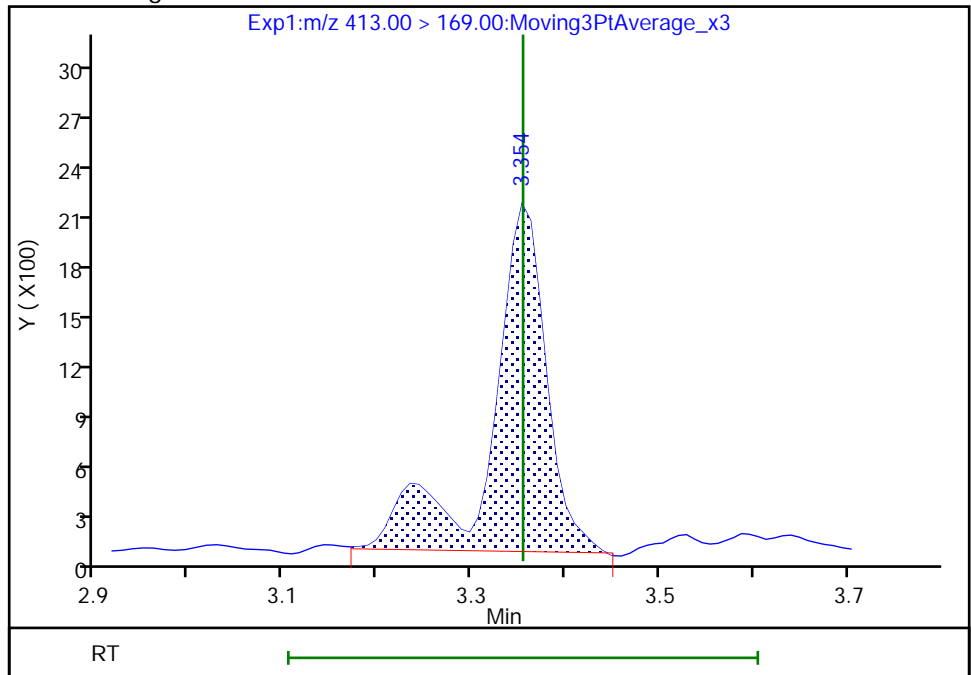
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35  
Area: 8377  
Amount: 0.327535  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:33:11  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

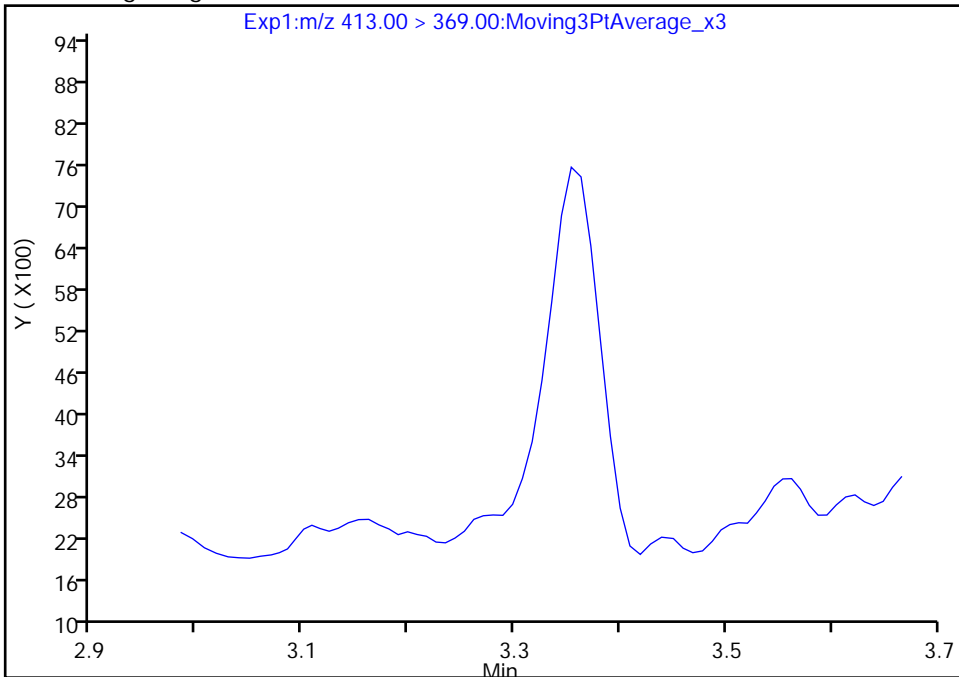
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

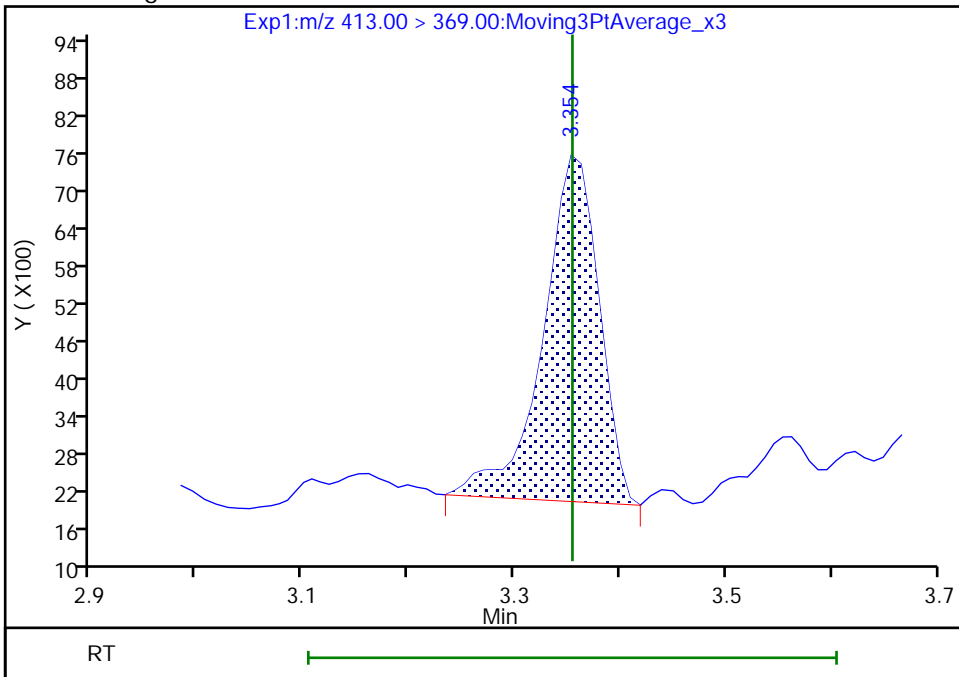
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35  
Area: 20319  
Amount: 0.327535  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

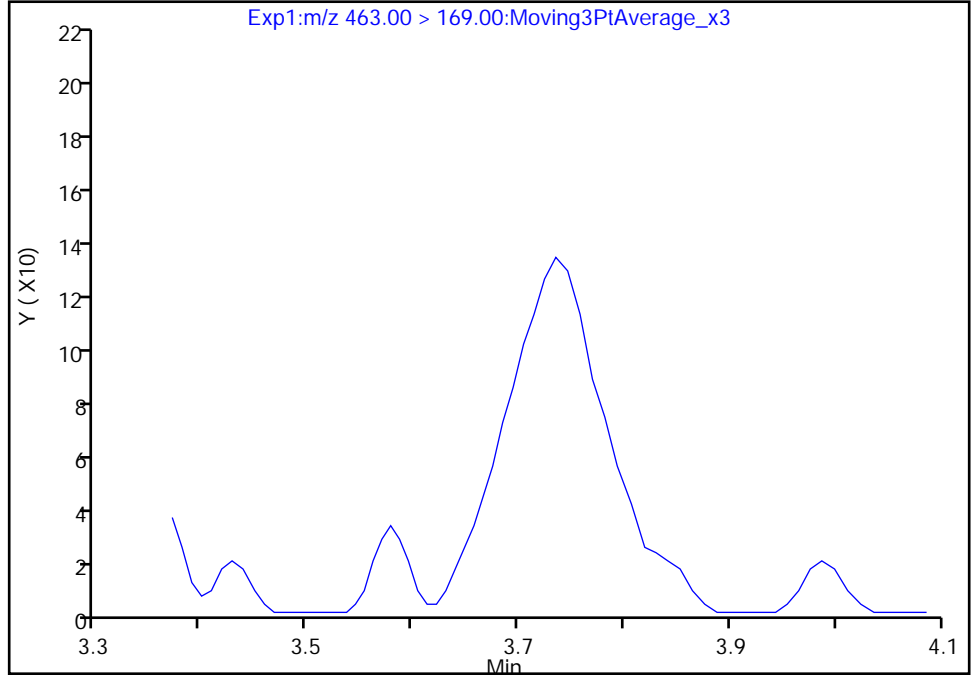
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

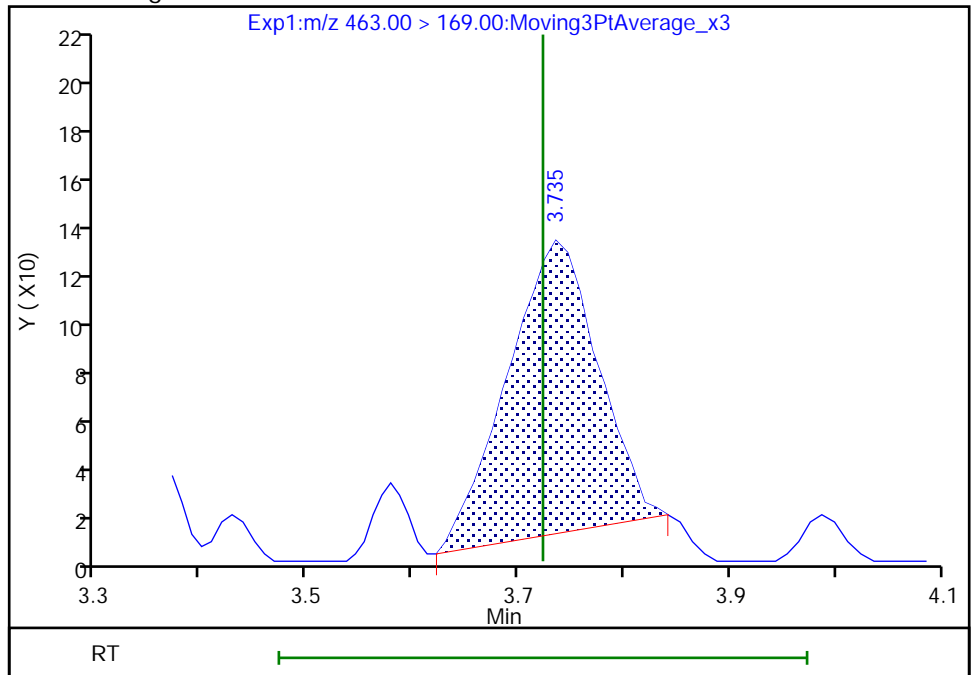
Not Detected  
Expected RT: 3.72

Processing Integration Results



RT: 3.74  
Area: 712  
Amount: 0.076295  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:33:59  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

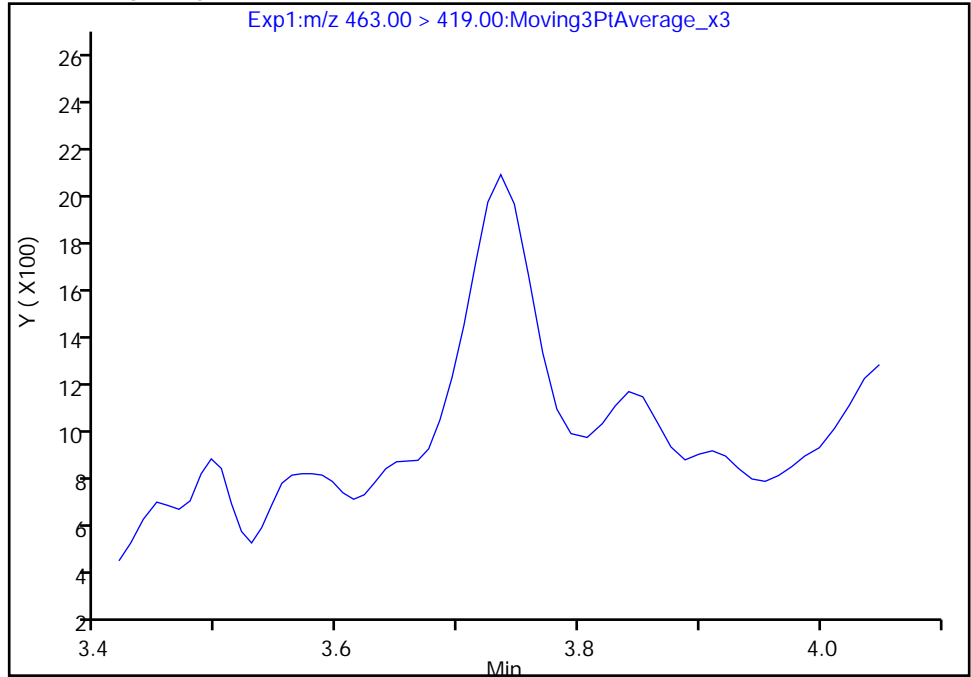
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

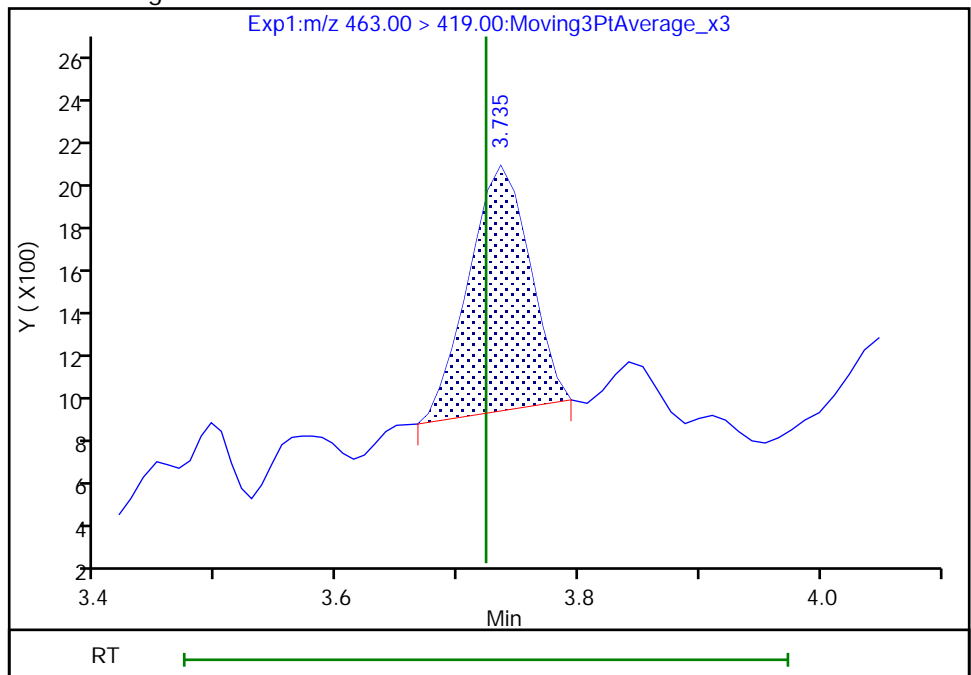
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.74  
Area: 3986  
Amount: 0.076295  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

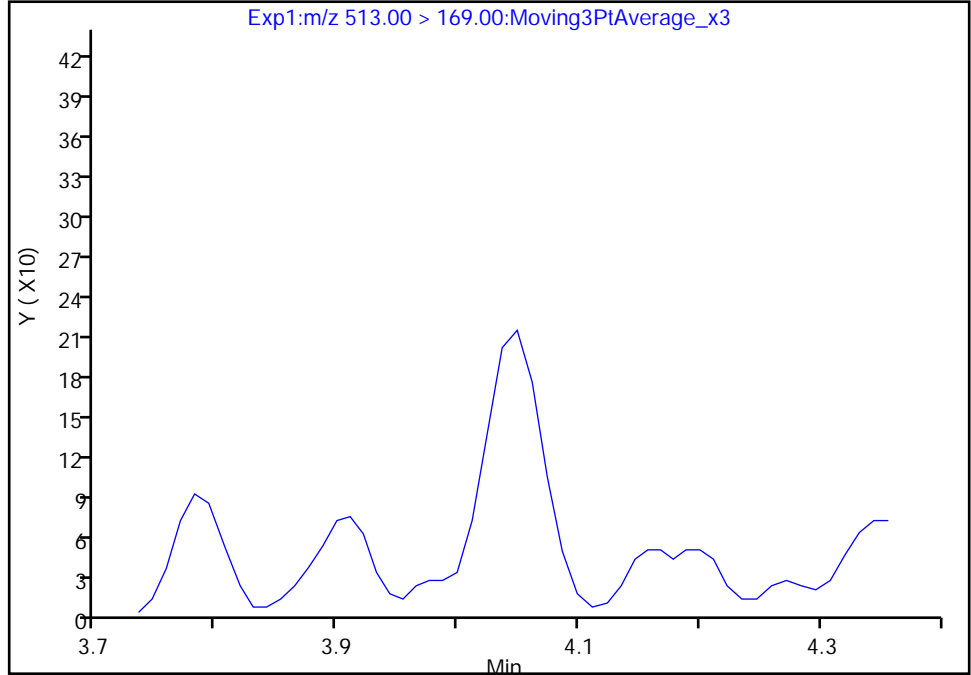
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

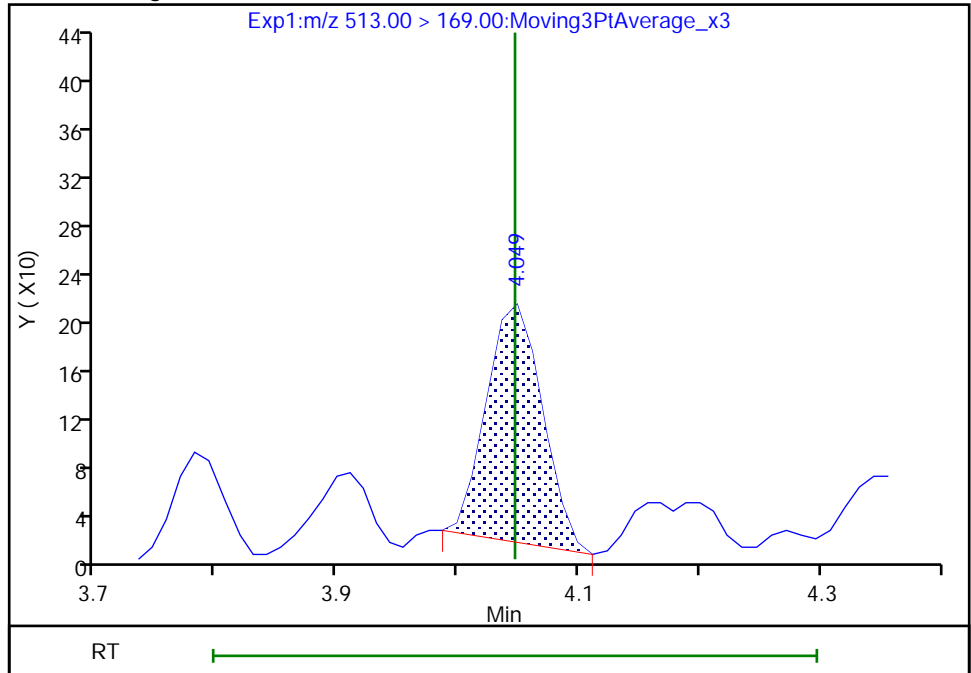
Not Detected  
Expected RT: 4.05

Processing Integration Results



RT: 4.05  
Area: 636  
Amount: 0.068420  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:34:12  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

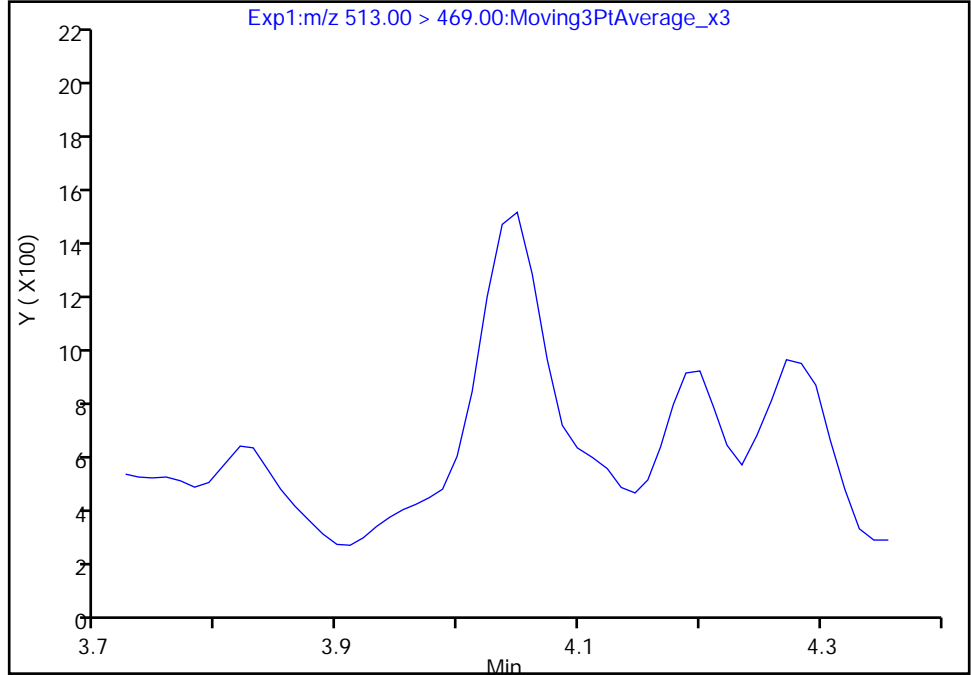
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

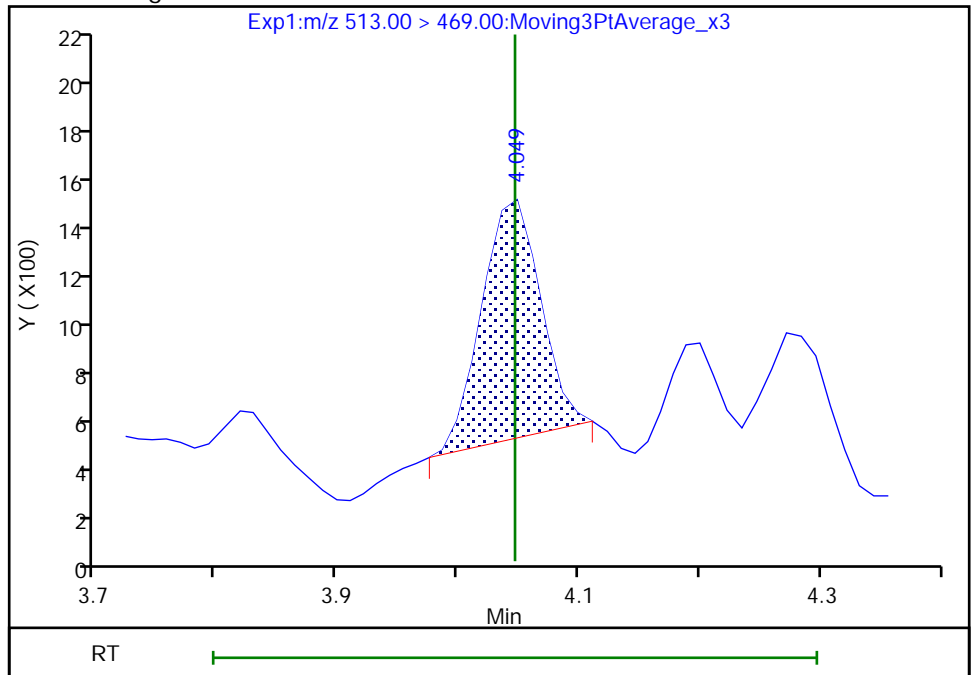
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.05  
Area: 3097  
Amount: 0.068420  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

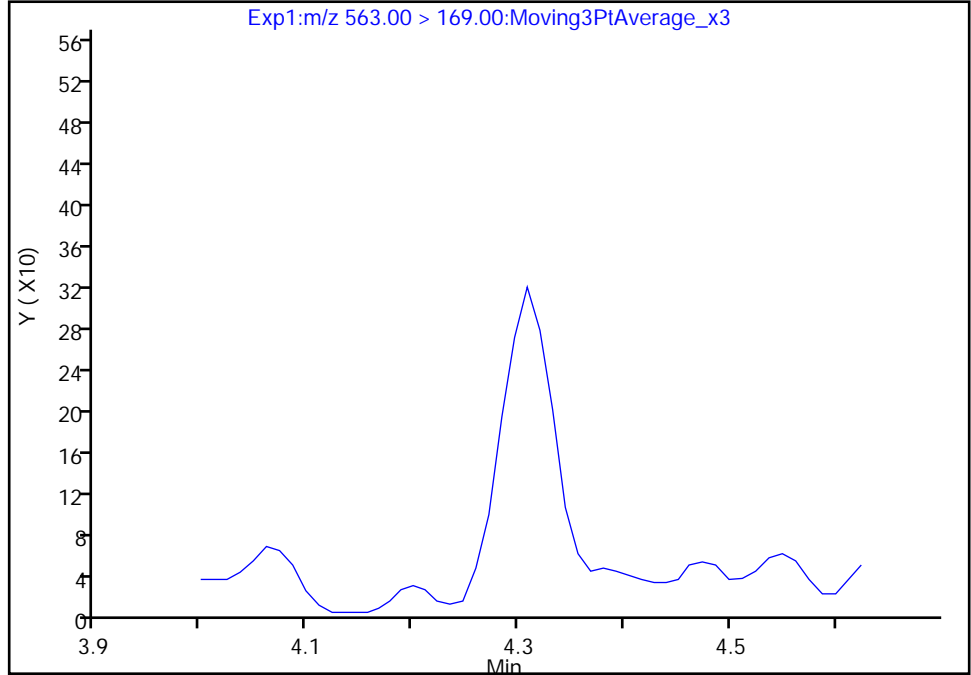
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

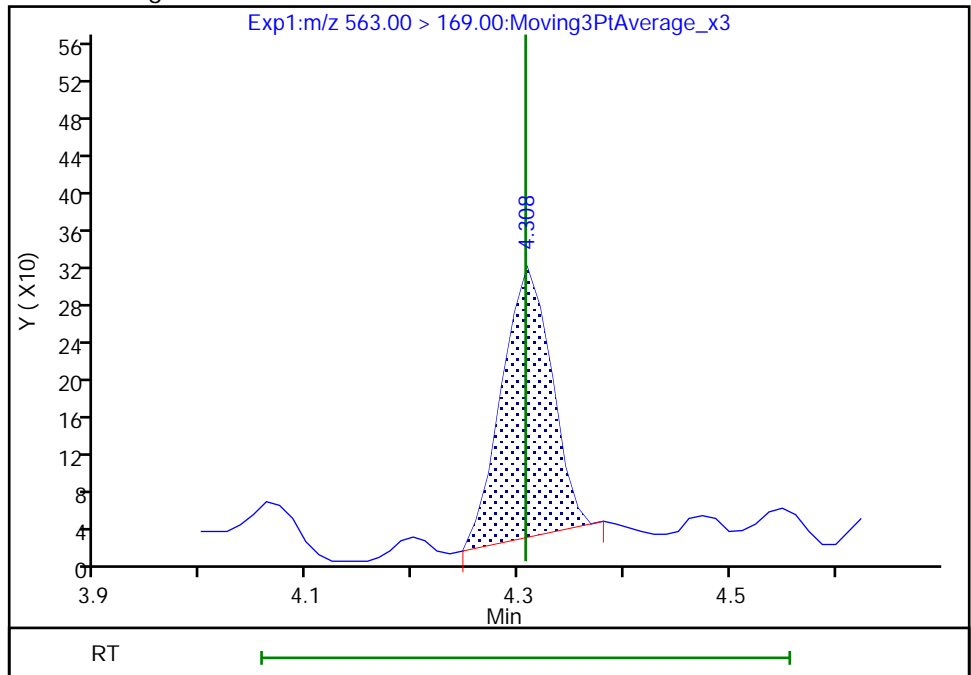
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 947  
Amount: 0.161090  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:34:49  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

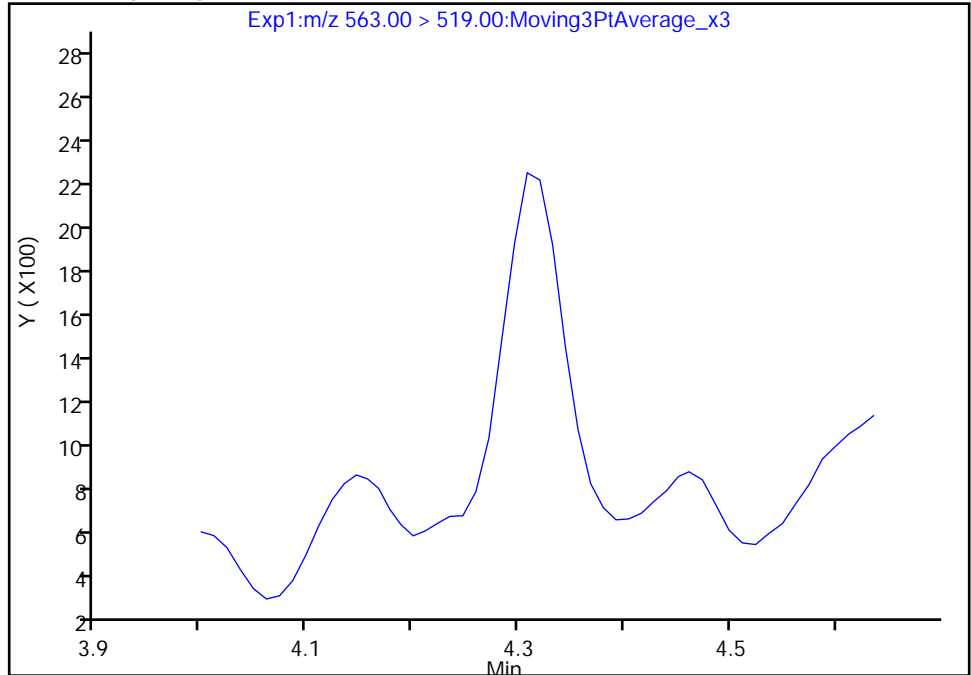
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

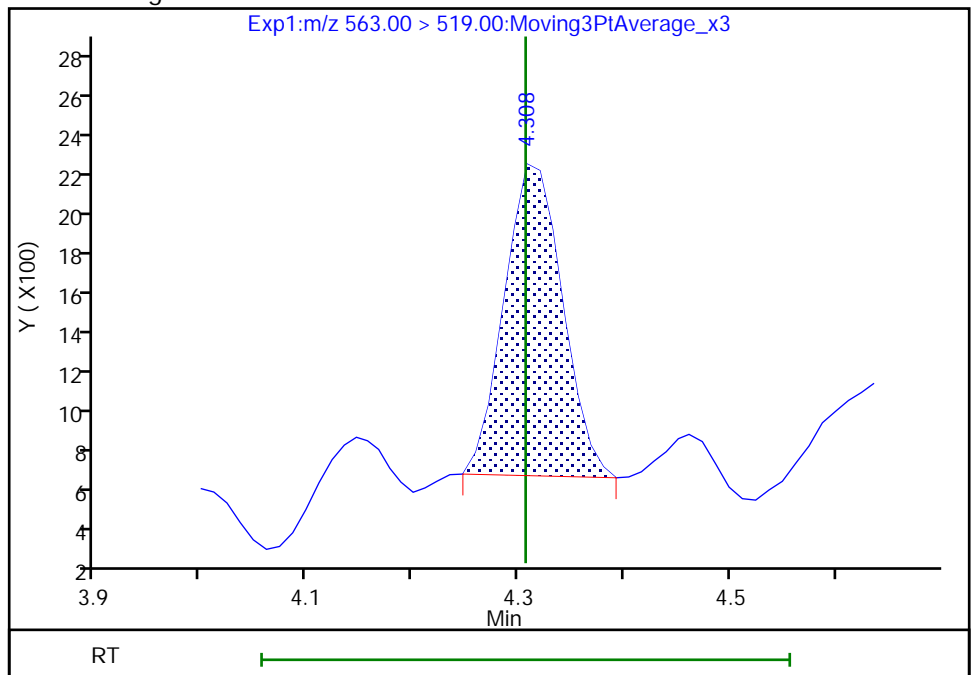
Not Detected  
Expected RT: 4.31

Processing Integration Results



RT: 4.31  
Area: 5742  
Amount: 0.161090  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:34:49

Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

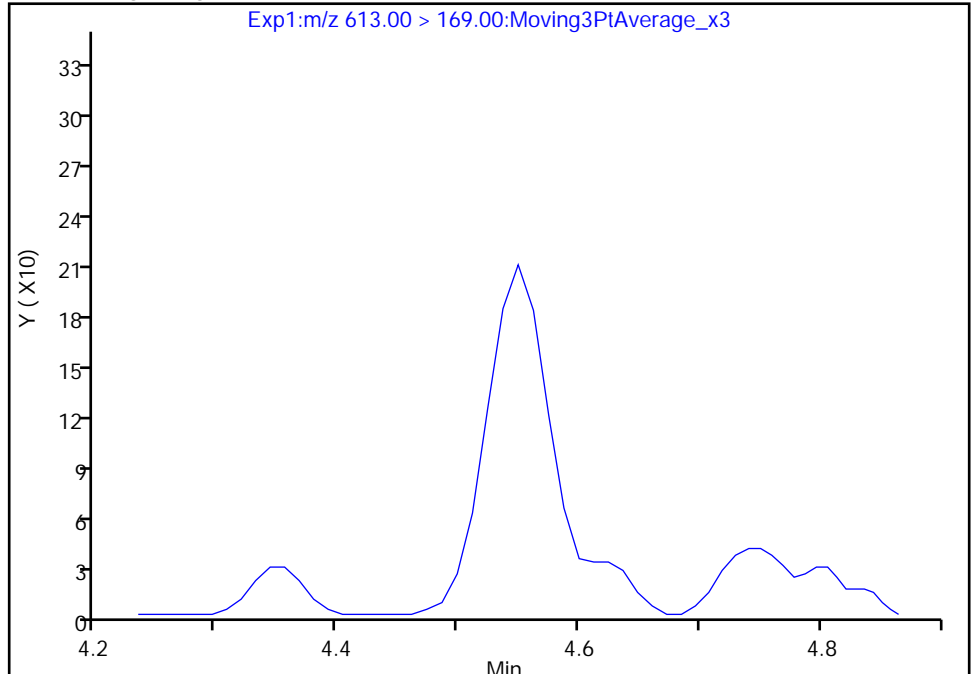
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

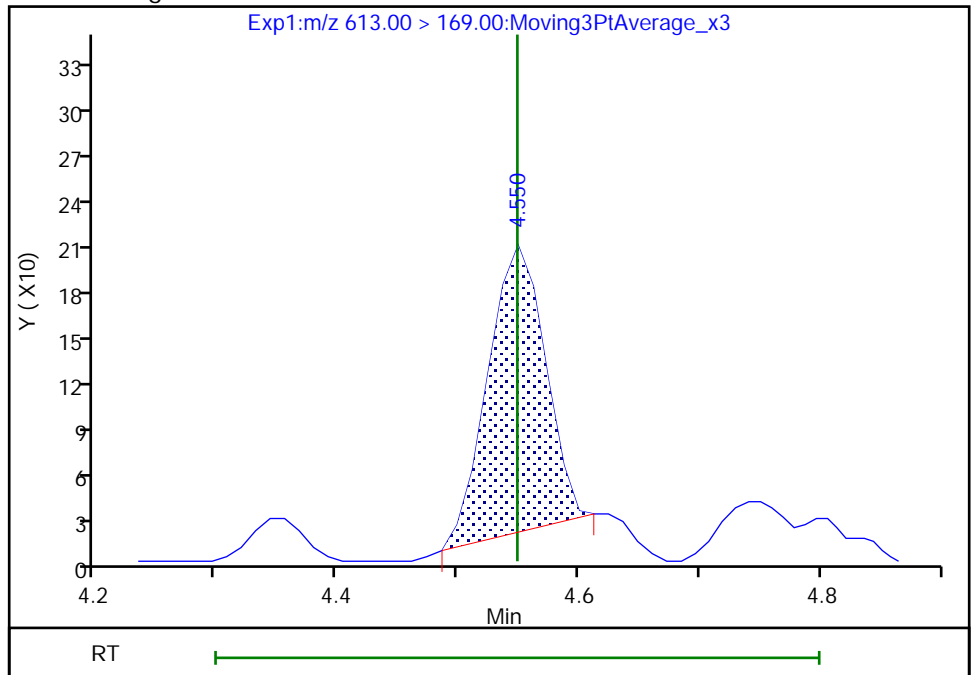
Not Detected  
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55  
Area: 618  
Amount: 0.090575  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:35:20  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

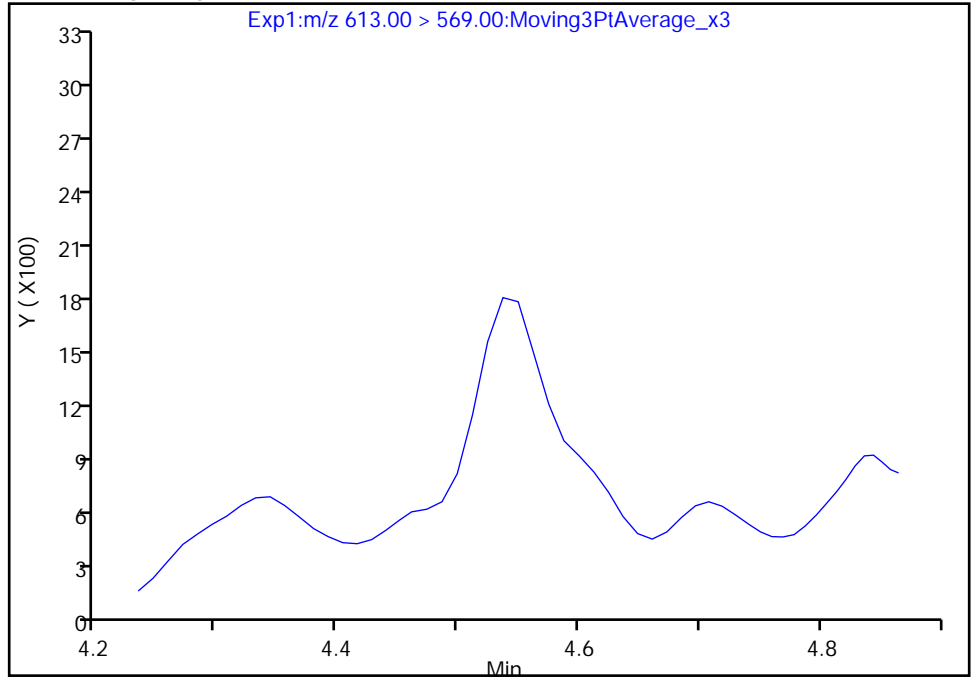
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

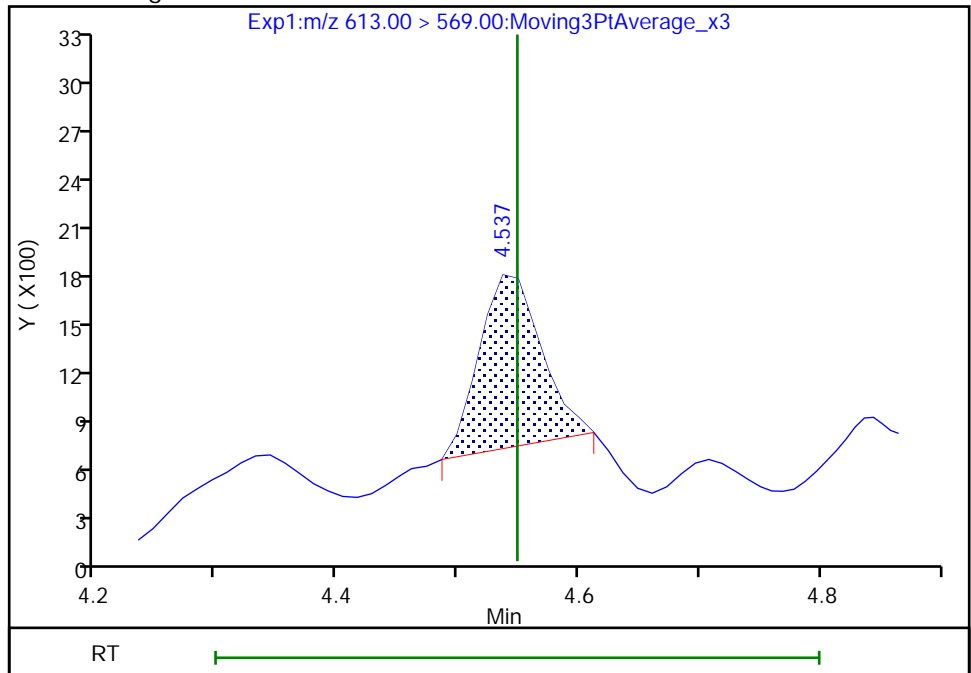
Not Detected  
Expected RT: 4.55

Processing Integration Results



RT: 4.54  
Area: 3823  
Amount: 0.090575  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:35:20

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

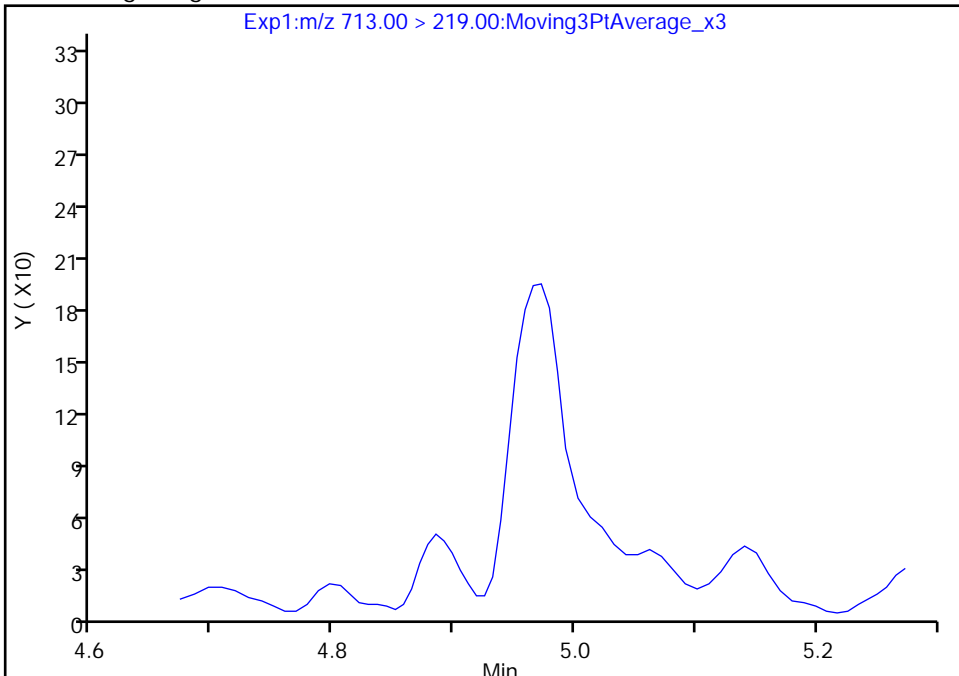
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

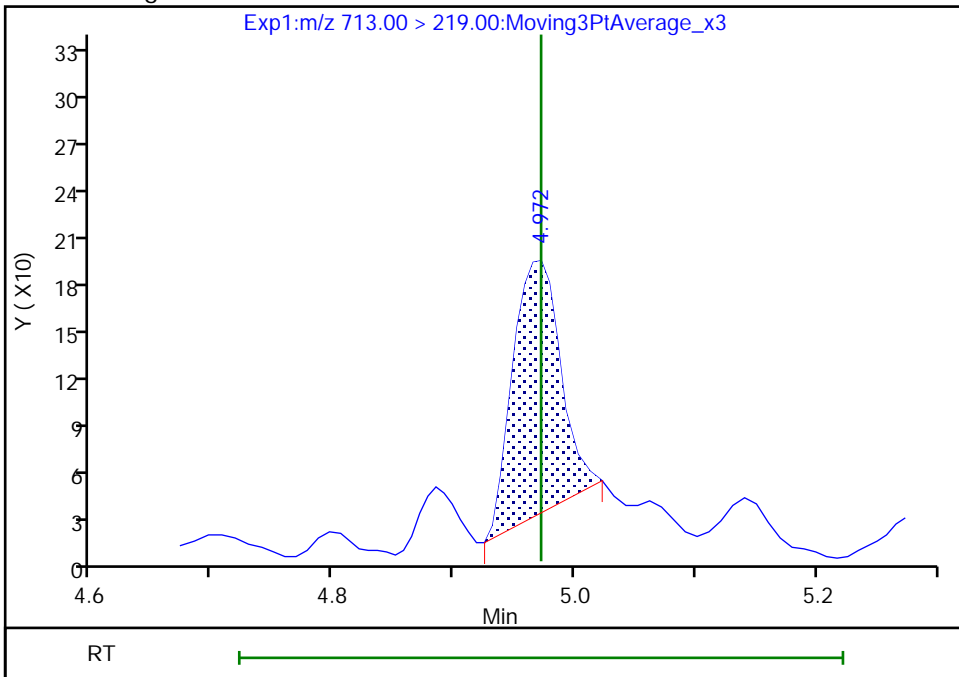
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 449  
Amount: 0.096061  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:35:41  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

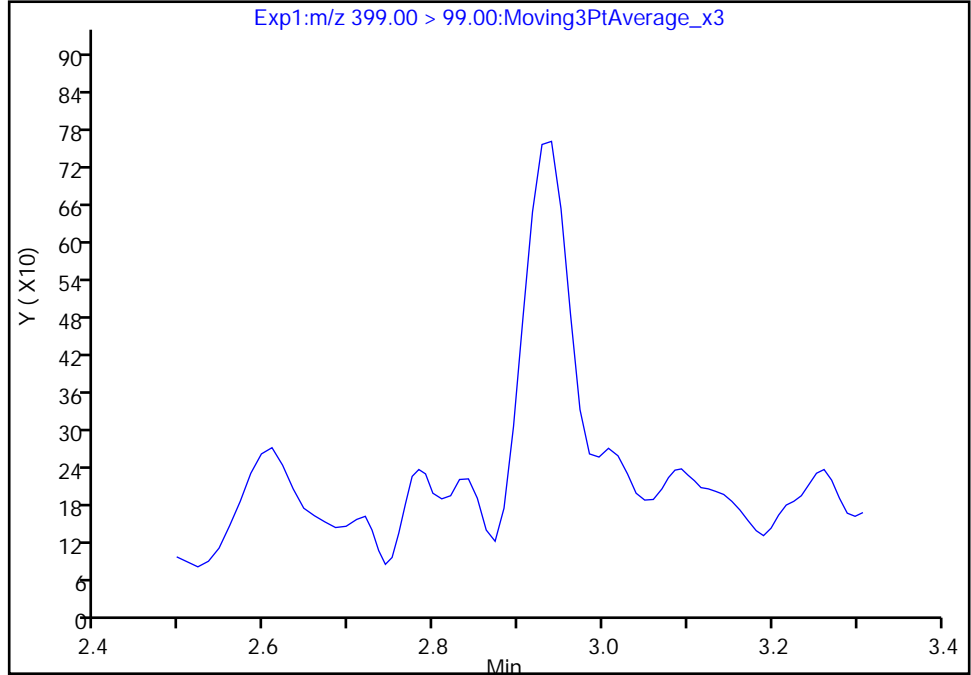
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

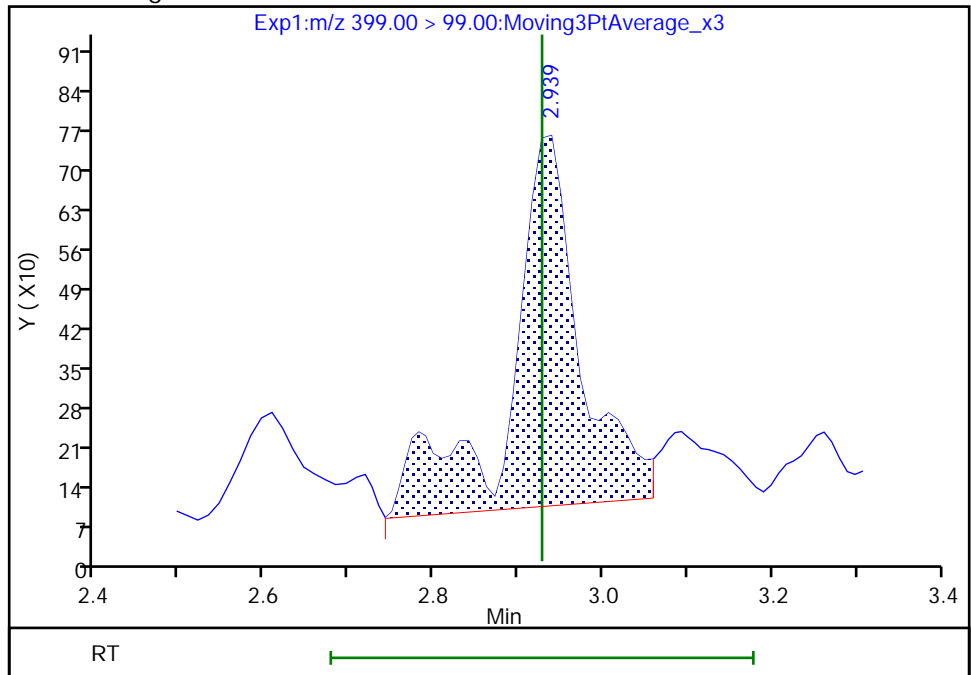
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 3786  
Amount: 0.214940  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:32:33  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

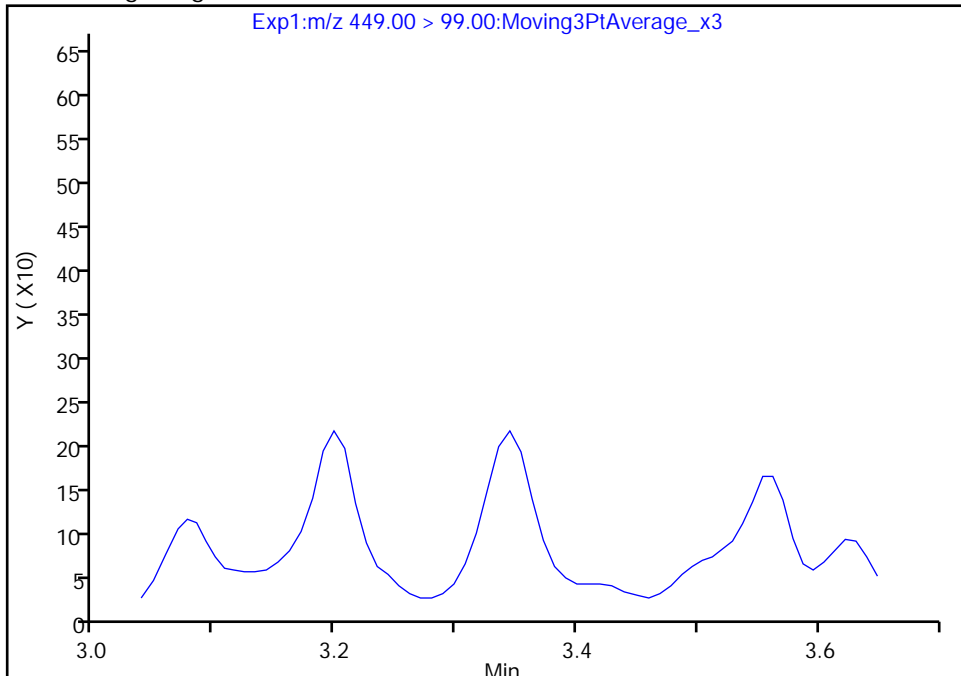
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

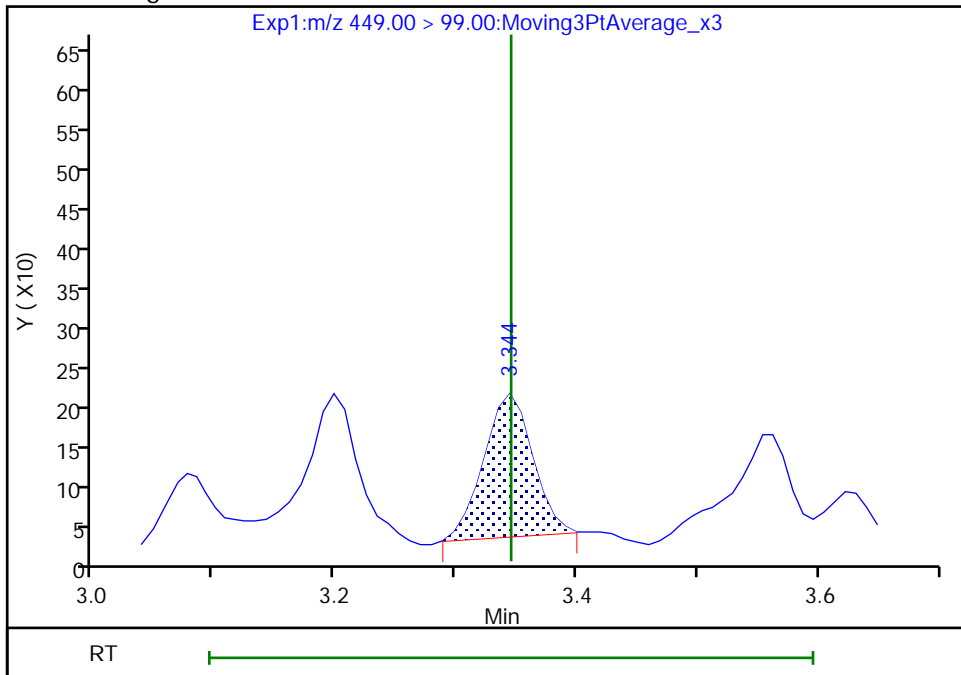
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.34  
Area: 509  
Amount: 0.035841  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:32:58  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

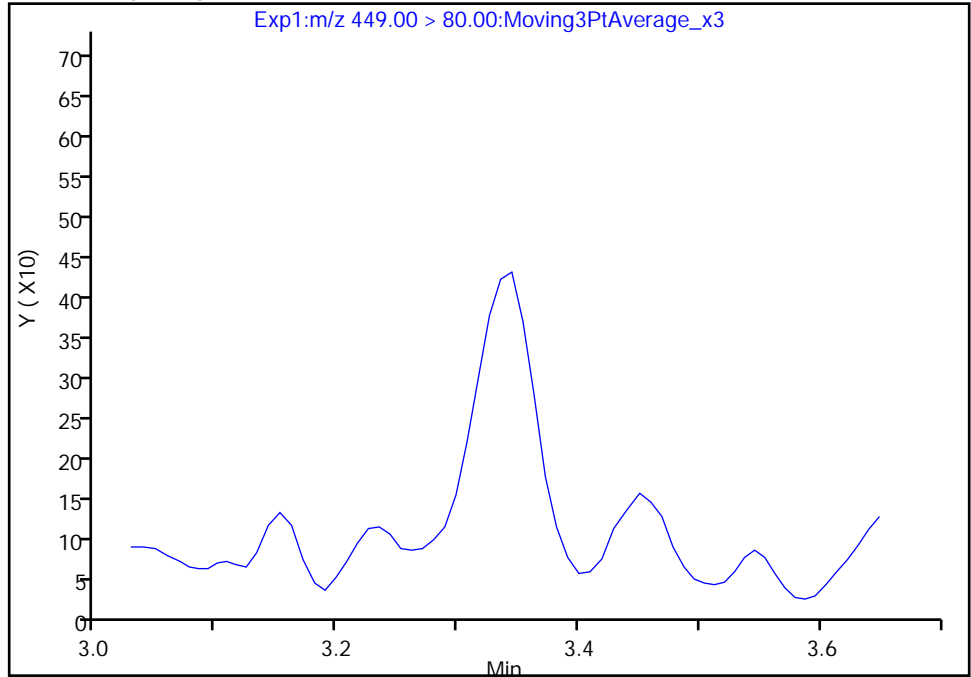
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

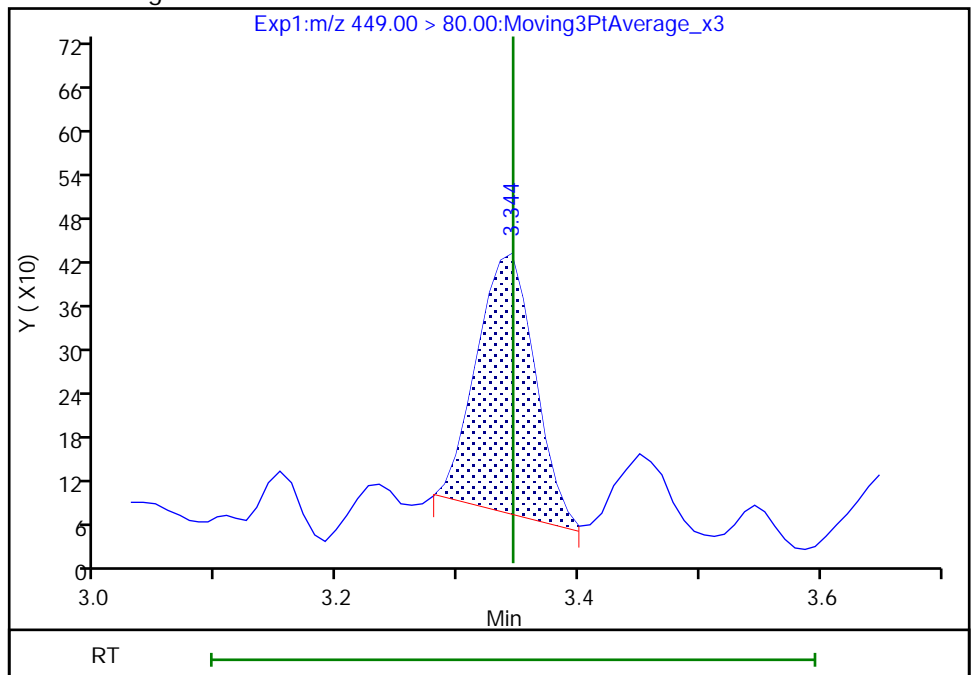
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.34  
Area: 1190  
Amount: 0.035841  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

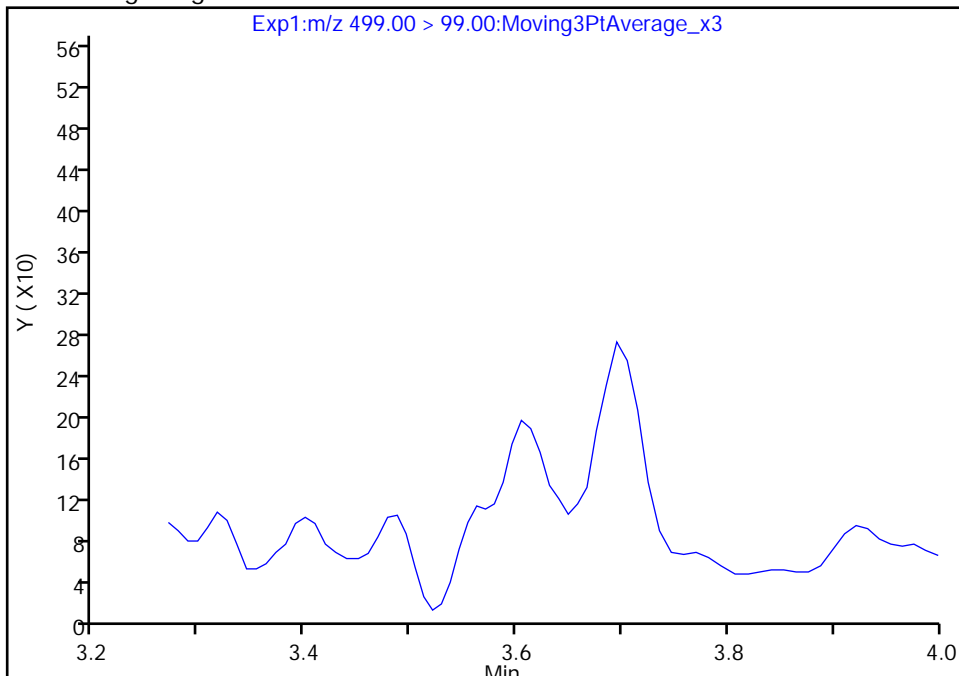
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Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

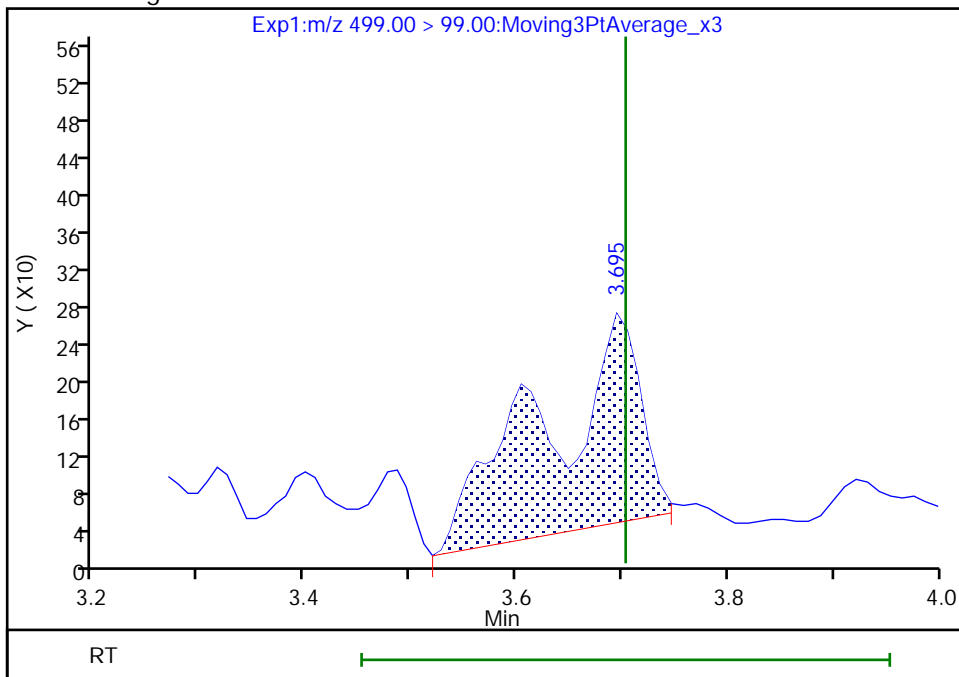
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.69  
Area: 1417  
Amount: 0.312041  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:33:31  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

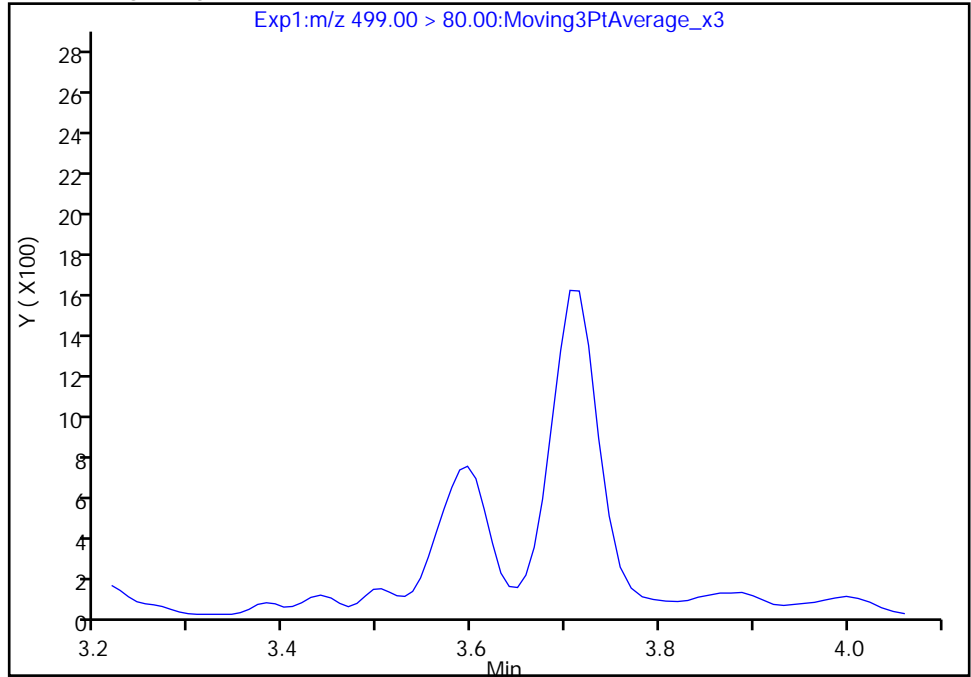
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

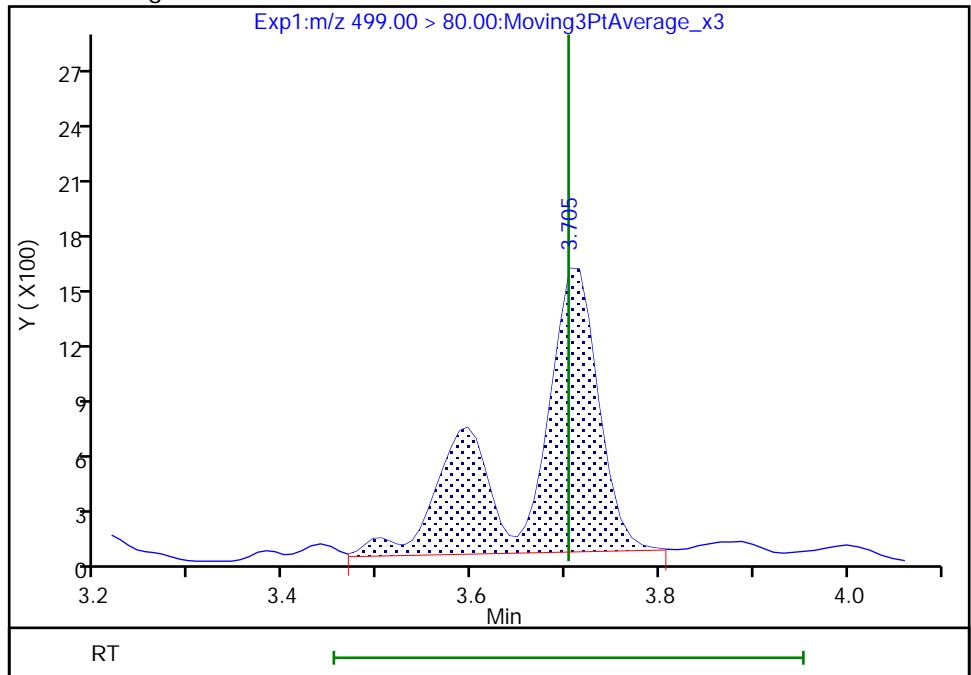
Not Detected  
Expected RT: 3.70

Processing Integration Results



RT: 3.70  
Area: 8141  
Amount: 0.312041  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

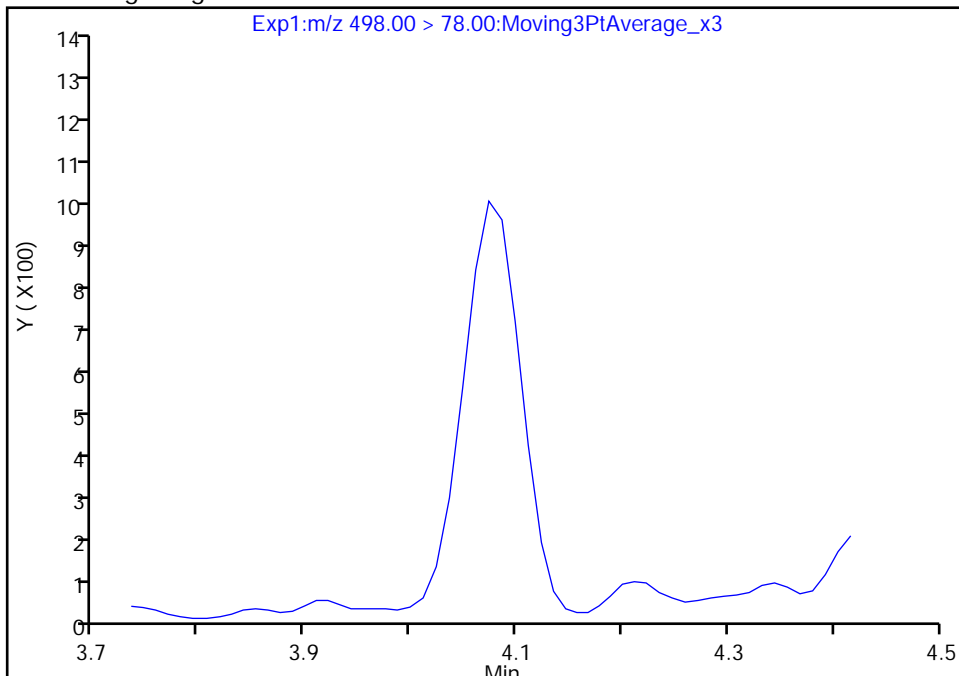
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Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

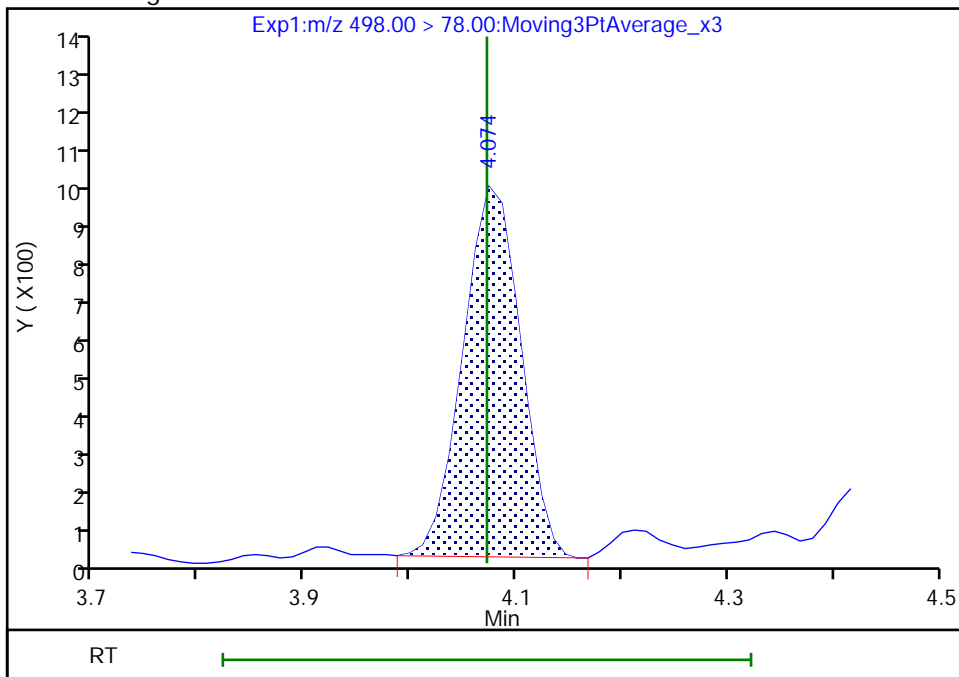
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.07  
Area: 3729  
Amount: 0.095302  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:34:25  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

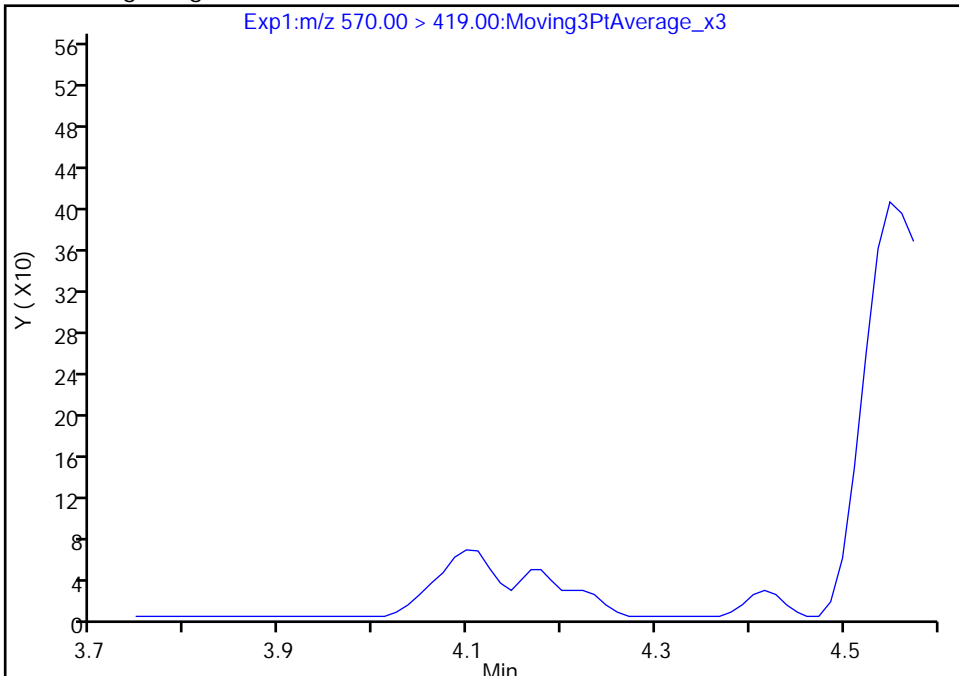
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

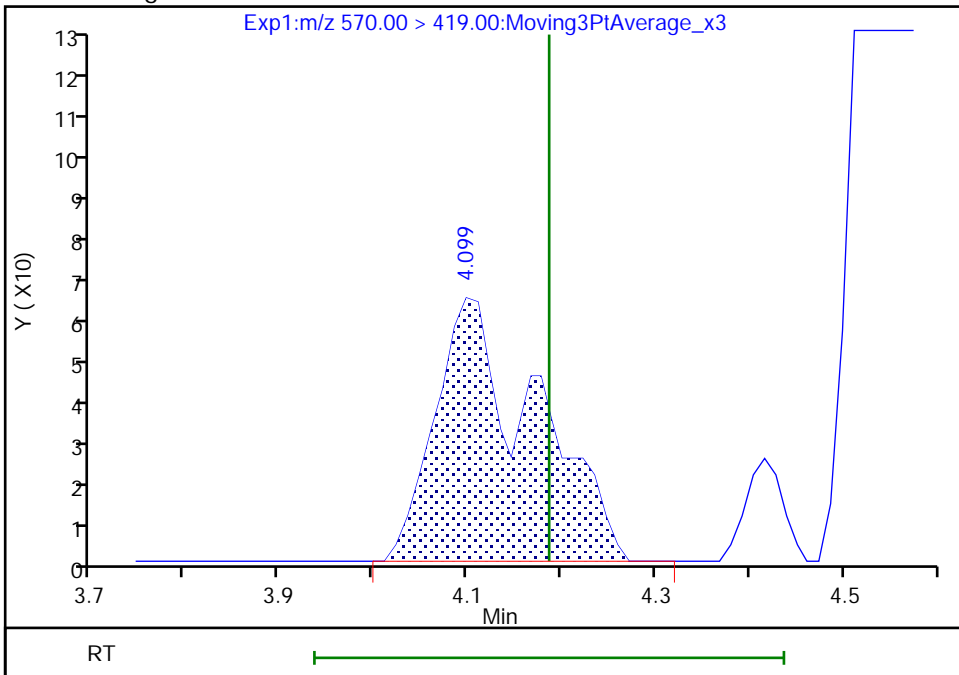
Not Detected  
Expected RT: 4.19

Processing Integration Results



Manual Integration Results

RT: 4.10  
Area: 471  
Amount: 0.143108  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:34:32  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

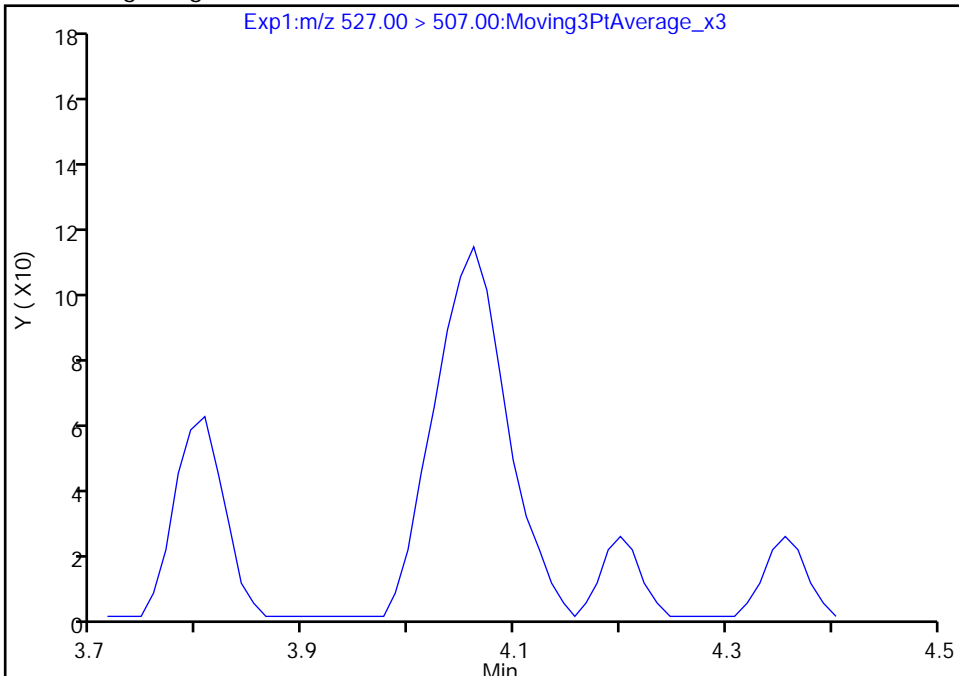
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E004.d  
Injection Date: 02-Aug-2019 04:13:25 Instrument ID: LC812  
Lims ID: 480-156213-F-1-A Lab Sample ID: 200-156213-1  
Client ID: 356023-MW8B  
Operator ID: lc812tech ALS Bottle#: 51 Worklist Smp#: 4  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

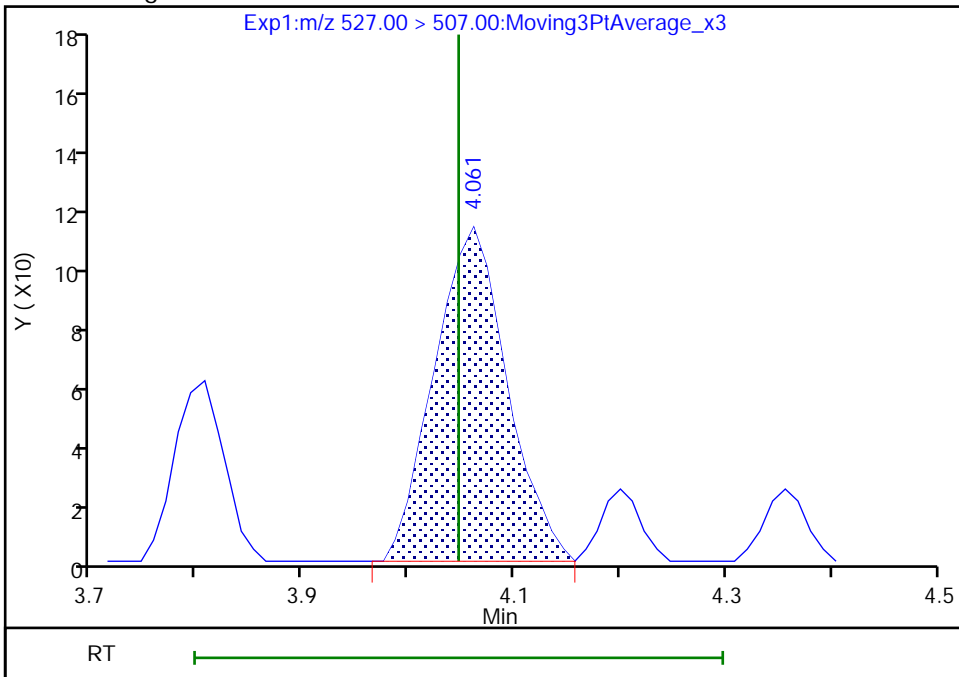
Not Detected  
Expected RT: 4.05

Processing Integration Results



RT: 4.06  
Area: 530  
Amount: 0.052701  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:34:18  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8BD Lab Sample ID: 480-156213-2  
 Matrix: Water Lab File ID: SC080119E005.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 13:20  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 290.8 (mL) Date Analyzed: 08/02/2019 04:21  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.7	0.86
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.54
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.65
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.78
335-67-1	Perfluorooctanoic acid (PFOA)	0.65	J	1.7	0.54
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.66
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.46
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.51
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.52
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.79
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.42
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.69
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.82
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.77
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.52
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.6	8.6
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.5
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	17	1.3
27619-97-2	6:2 FTS	ND		17	4.0
39108-34-4	8:2 FTS	ND		17	2.5

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW8BD Lab Sample ID: 480-156213-2  
 Matrix: Water Lab File ID: SC080119E005.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 13:20  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 290.8 (mL) Date Analyzed: 08/02/2019 04:21  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	58		25-150
STL00992	13C4 PFBA	76		25-150
STL01893	13C5 PFPeA	80		25-150
STL00993	13C2 PFHxA	80		50-150
STL01892	13C4 PFHpA	83		50-150
STL00990	13C4 PFOA	79		50-150
STL00995	13C5 PFNA	83		50-150
STL00996	13C2 PFDA	79		50-150
STL00997	13C2 PFUnA	78		50-150
STL00998	13C2 PFDoA	78		50-150
STL02116	13C2 PFTeDA	66		50-150
STL02337	13C3 PFBS	93		50-150
STL00994	18O2 PFHxS	89		50-150
STL00991	13C4 PFOS	79		50-150
STL02118	d3-NMeFOSAA	63		50-150
STL02117	d5-NEtFOSAA	60		50-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	101		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
 Lims ID: 480-156213-F-2-A  
 Client ID: 356023-MW8BD  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 04:21:26 ALS Bottle#: 52 Worklist Smp#: 5  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-2-A  
 Misc. Info.: 200-0037095-005 Plate: 1 Rack: 4  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:38:10 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 16:40:02  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.507	2625362	38.0	76.1	10782	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.708	1.699	0.009	1.005	13346	0.2758		2.4		M
D 3 13C5 PFPeA	267.90 > 223.00	2.055	2.054	0.0	0.613	2582630	39.8	79.7	7535	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.067	2.067	0.0	1.006	6828	0.1366		0.4		M
D 47 13C3 PFBS	301.90 > 80.00	2.080	2.080	0.0	0.620	2749682	43.2	92.9	573769	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.080	2.093	-0.013	1.000	7035	0.1170	Target=1.90	11.1		M
298.90 > 99.00	2.080	2.093	-0.013	1.000	3928		1.79(0.95-2.85)	4.1		
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.733	2586303	40.2	80.3	6825	
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.873	1566555	42.0	88.8	6626	
D 9 13C4 PFHpA	367.00 > 322.00	2.928	2.928	0.0	0.873	2613381	41.4	82.9	6927	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.928	2.928	0.0	1.000	7444	0.1706	Target=3.37	7.3		M
399.00 > 99.00	2.928	2.928	0.0	1.000	2063		3.61(1.69-5.06)	2.0		M
D 12 M2-6:2 FTS	429.00 > 81.00	3.344	3.335	0.009	0.997	384834	49.6	104	631	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.335	3.336	-0.001	0.997	13515	0.9727		25.4		
D 14 13C4 PFOA	417.00 > 372.00	3.354	3.344	0.010	1.000	2632833	39.5	79.1	10873	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.354	3.355	-0.001	1.000	21671	0.3782	Target=2.84	2.3		M
413.00 > 169.00	3.354	3.355	-0.001	1.000	8623		2.51(1.42-4.25)	19.9		M
* 62 13C2 PFOA										
415.00 > 370.00	3.354	3.355	-0.001		3662065	50.0			8824	
D 18 13C4 PFOS										
503.00 > 80.00	3.705	3.695	0.010	1.105	1180300	38.0		79.5	3790	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.705	3.703	0.002	1.000	3889	0.1664	Target=4.33	5.2		M
499.00 > 99.00	3.695	3.703	-0.008	0.997	1543		2.52(2.16-6.49)	2.2		M
D 19 13C5 PFNA										
468.00 > 423.00	3.725	3.715	0.010	1.111	2529367	41.6		83.3	18791	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.725	3.723	0.002	1.000	5351	0.1168	Target=8.15	1.5		M
463.00 > 169.00	3.725	3.723	0.002	1.000	662		8.08(4.08-12.23)	9.9		M
D 23 13C2 PFDA										
515.00 > 470.00	4.036	4.036	0.0	1.204	1921509	39.5		79.1	7808	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.049	4.036	0.013	1.207	348186	48.6		101	667	
25 1H,1H,2H,2H-perfluorodecanesulfoni										M
527.00 > 507.00	4.049	4.047	0.002	1.000	399	0.0411		4.9		M
D 21 13C8 FOSA										
506.00 > 78.00	4.074	4.061	0.013	1.215	1610335	28.9		57.7	4502	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.086	4.072	0.014	1.003	1681	0.0572		9.6		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.178	4.178	0.0	1.246	194436	31.3		62.6	2303	
28 N-methylperfluorooctanesulfonamido										M
570.00 > 419.00	4.200	4.187	0.013	1.005	332	0.1128		1.2		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.296	0.012	1.285	1734088	39.2		78.3	8660	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.308	0.012	1.288	206218	29.8		59.6	943	
D 36 13C2 PFDoA										
615.00 > 570.00	4.550	4.537	0.013	1.357	1847623	38.8		77.5	7153	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.965	4.965	0.0	1.481	2162299	33.0		65.9	7789	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.972	4.972	0.0	1.001	522	0.0907	Target=1.02	5.9		M
713.00 > 219.00	4.972	4.972	0.0	1.001	529		0.99(0.51-1.54)	10.6		M

## QC Flag Legend

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d

Injection Date: 02-Aug-2019 04:21:26

Instrument ID: LC812

Lims ID: 480-156213-F-2-A

Lab Sample ID: 200-156213-2

Client ID: 356023-MW8BD

Operator ID: lc812tech

ALS Bottle#: 52

Worklist Smp#: 5

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

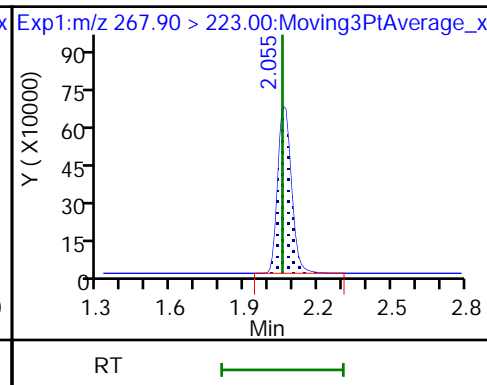
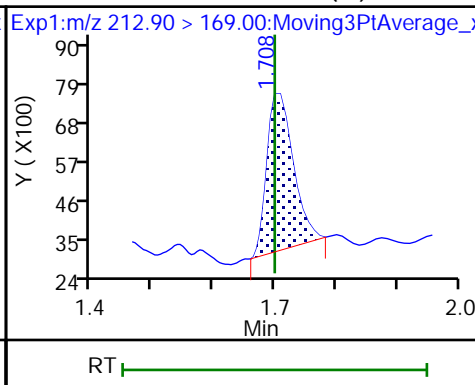
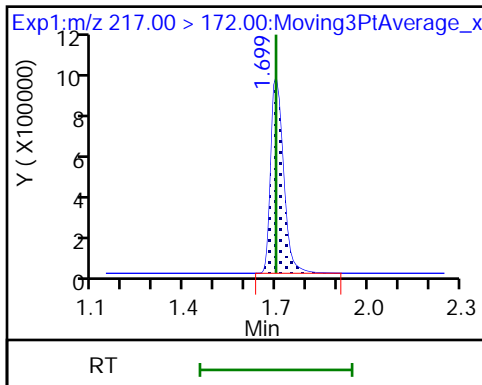
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

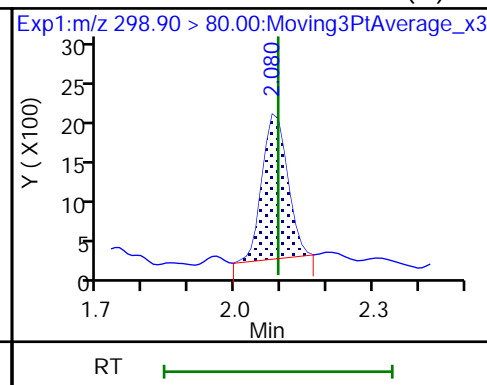
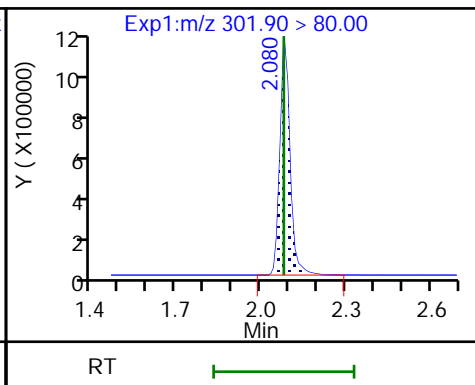
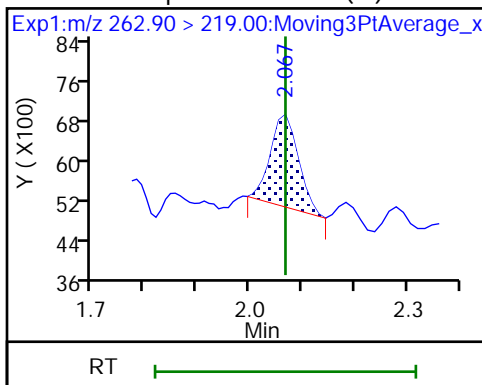
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

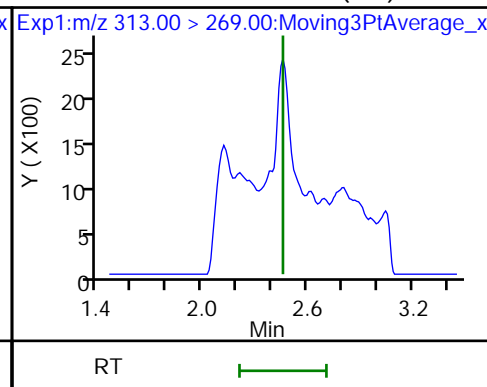
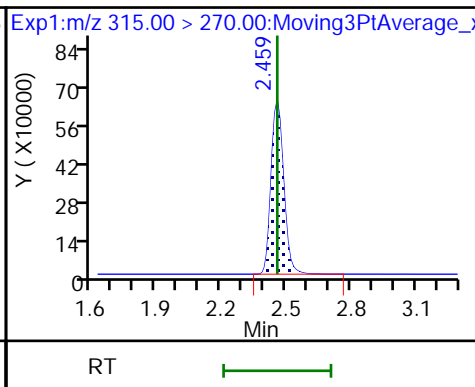
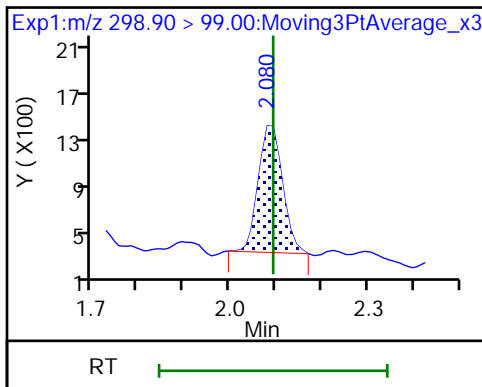
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

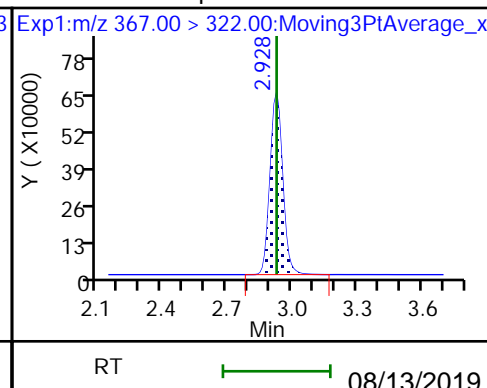
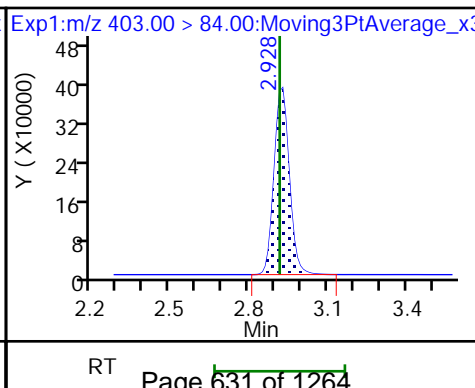
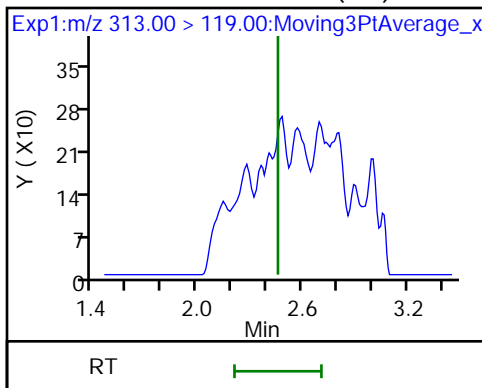
6 Perfluorohexanoic acid (ND)



6 Perfluorohexanoic acid (ND)

D 11 18O2 PFHxS

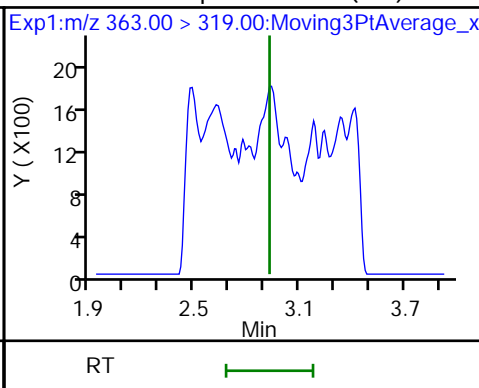
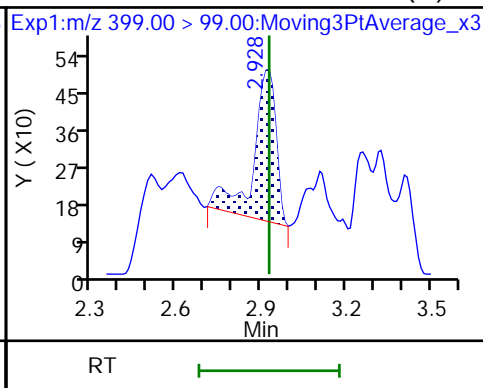
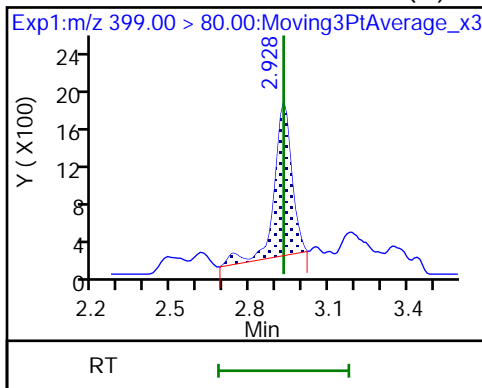
D 9 13C4 PFHpA



8 Perfluorohexanesulfonic acid (M)

8 Perfluorohexanesulfonic acid (M)

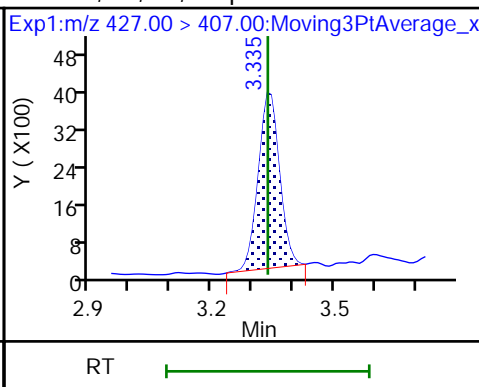
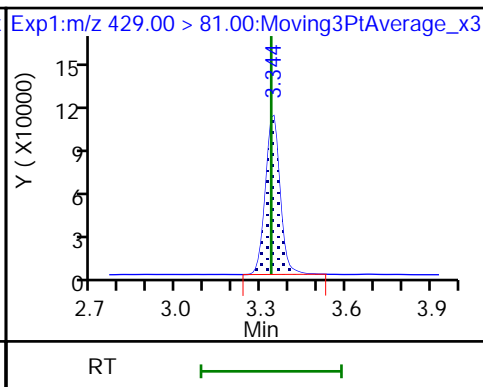
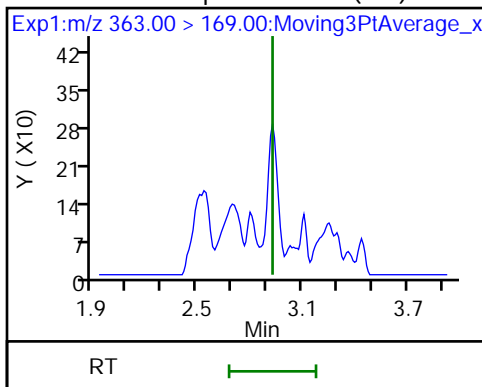
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

D 12 M2-6:2 FTS

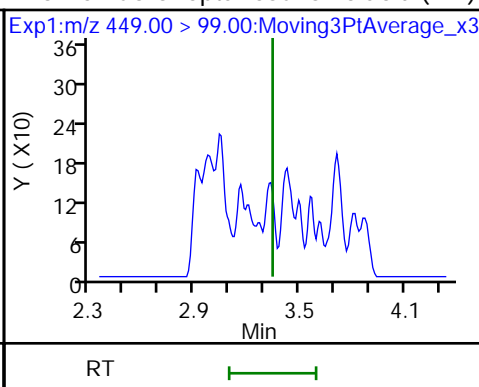
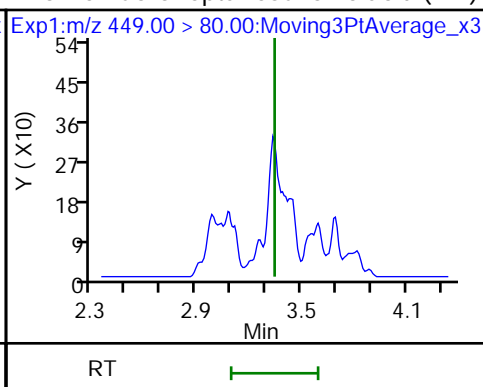
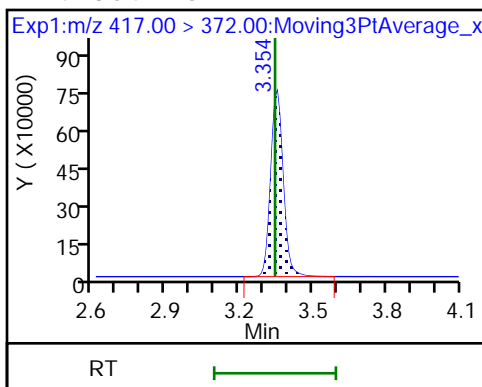
13 1H,1H,2H,2H-perfluorooctanesulfoni



D 14 13C4 PFOA

16 Perfluoroheptanesulfonic acid (ND)

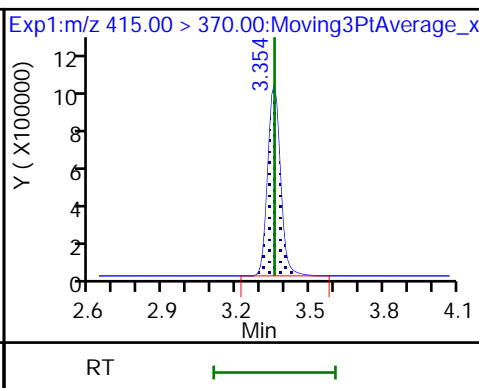
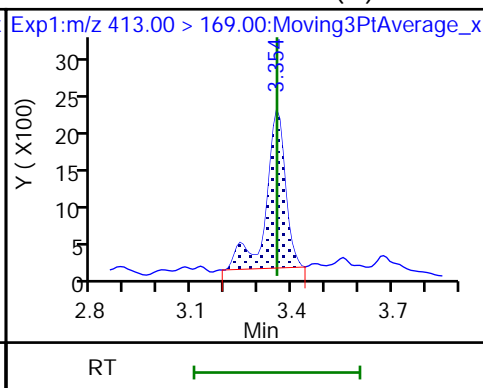
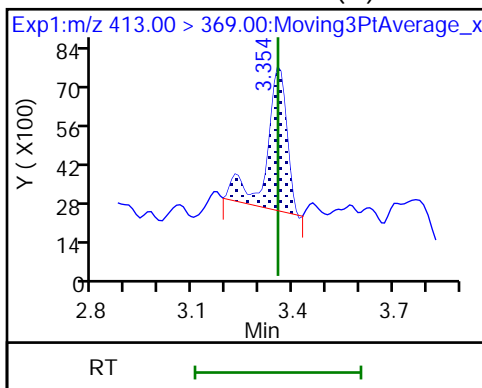
16 Perfluoroheptanesulfonic acid (ND)



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

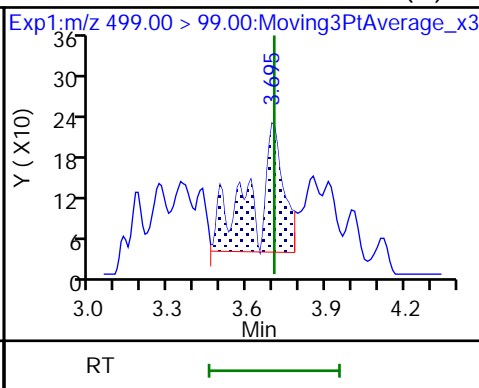
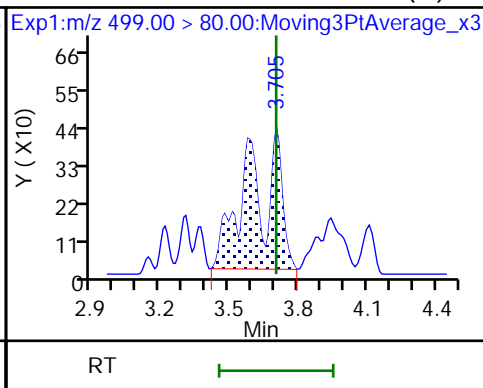
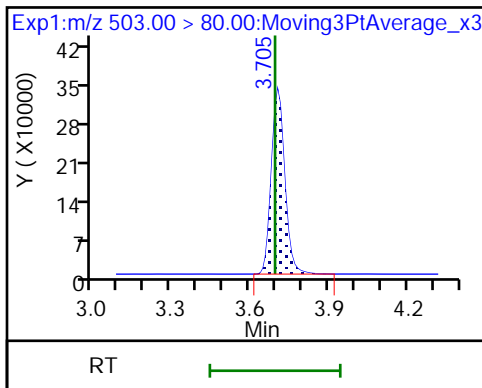
\* 62 13C2 PFOA



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

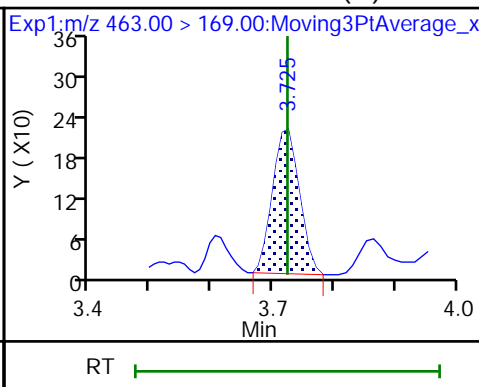
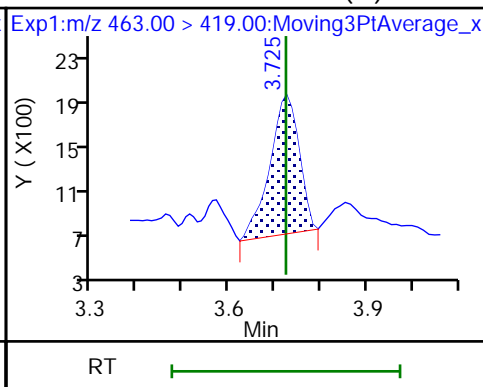
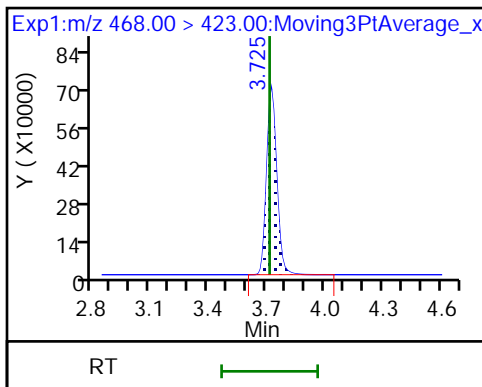
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

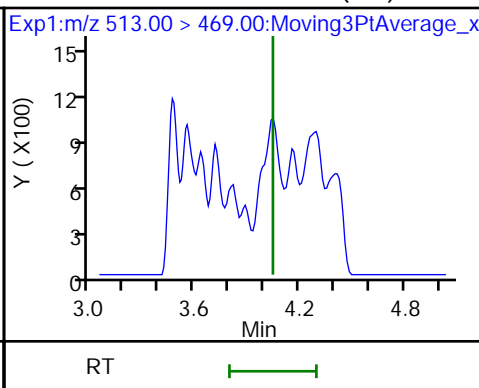
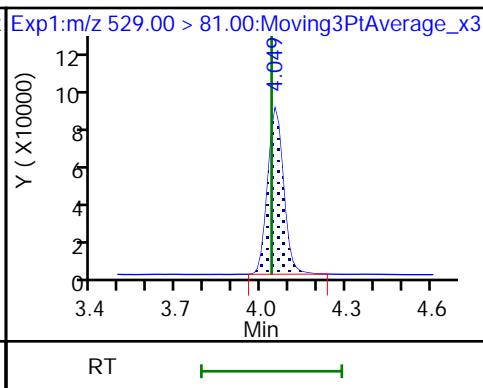
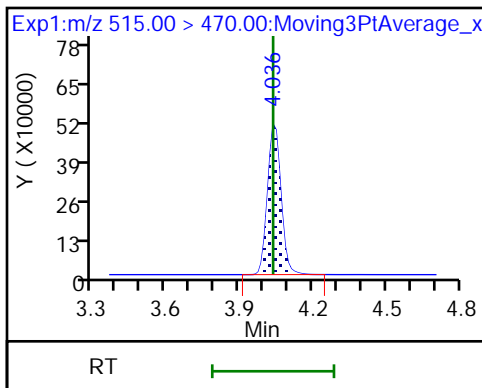
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

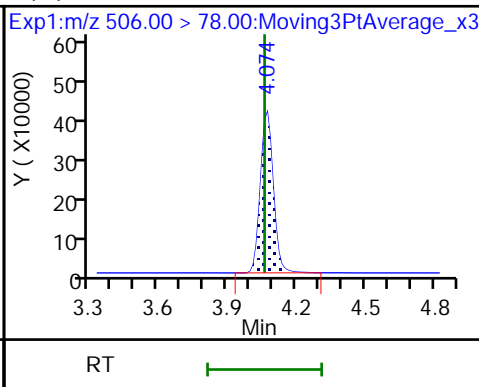
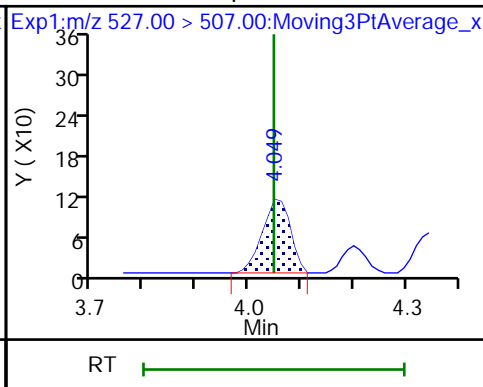
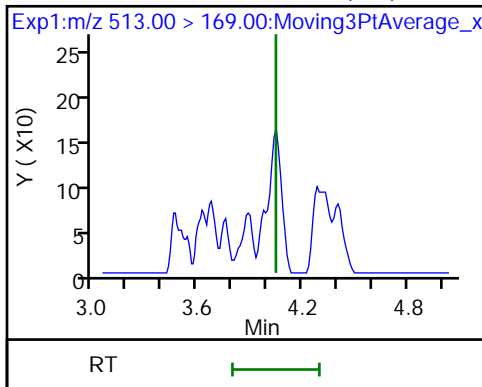
24 Perfluorodecanoic acid (ND)



24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonate (M)

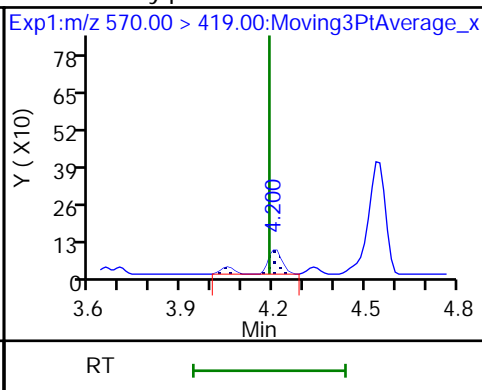
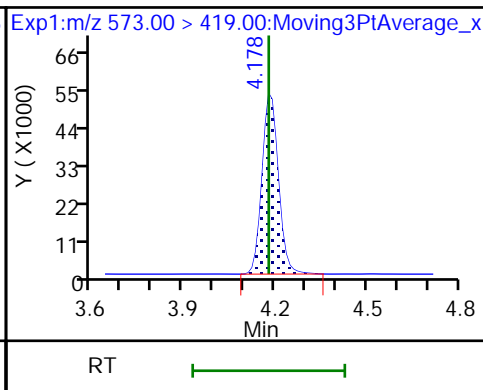
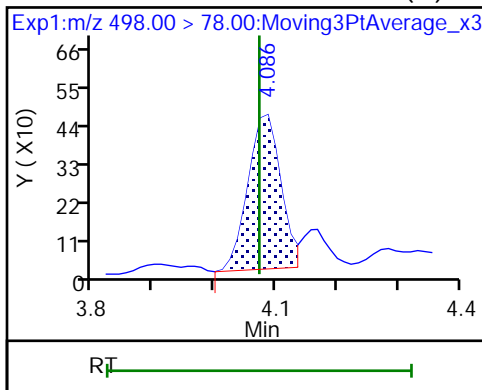
D 27 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

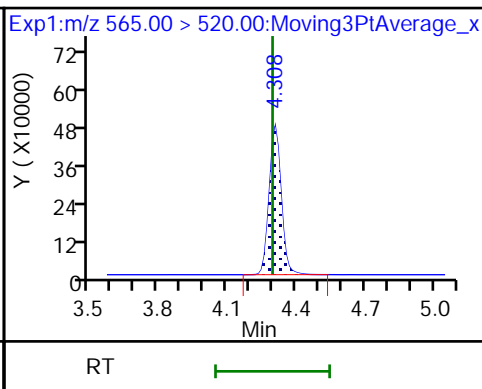
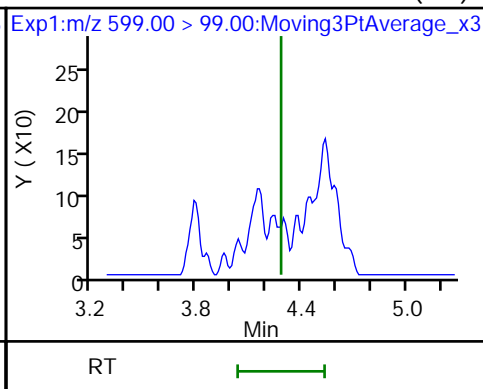
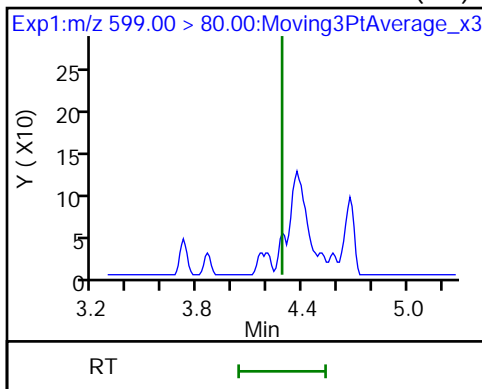
28 N-methylperfluorooctanesulfonamido (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

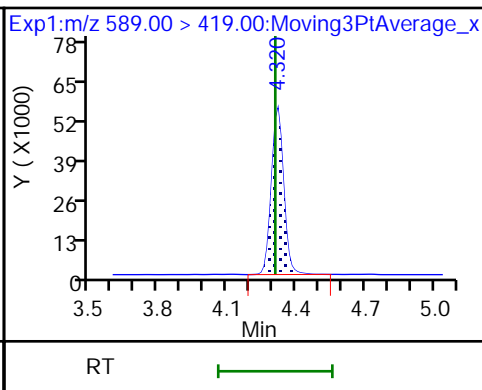
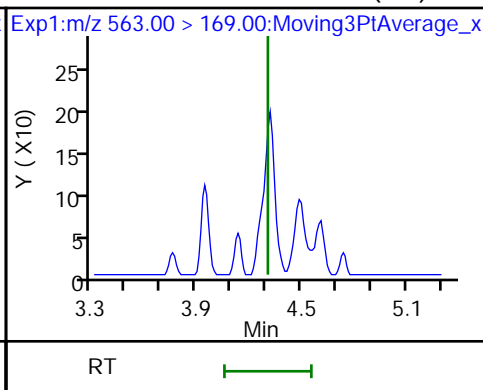
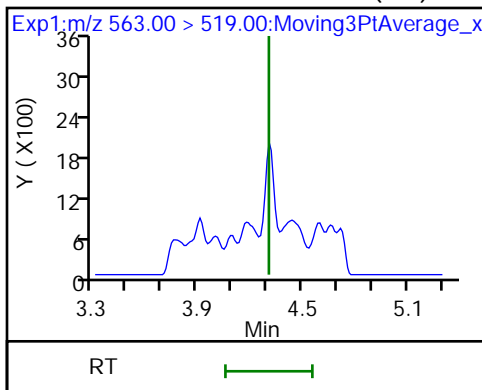
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (ND)

31 Perfluoroundecanoic acid (ND)

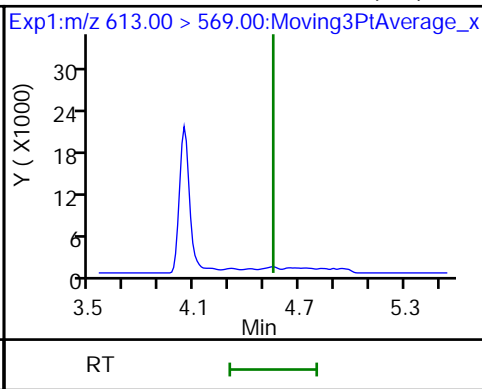
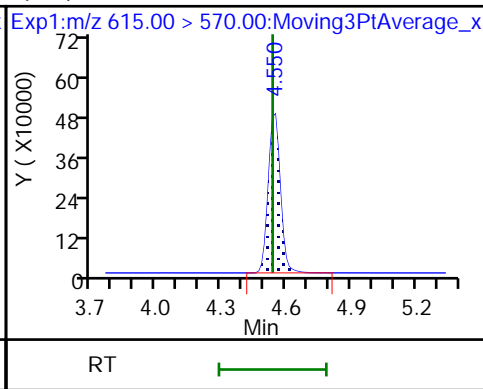
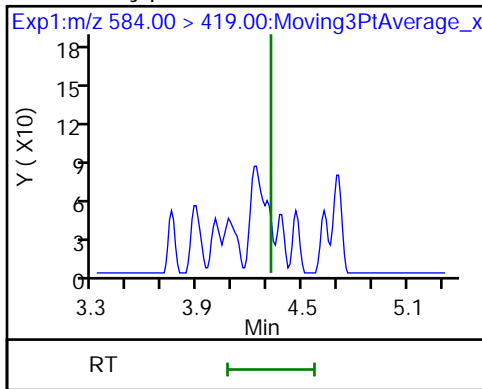
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (ND)

D 33 13C2 PFDoA

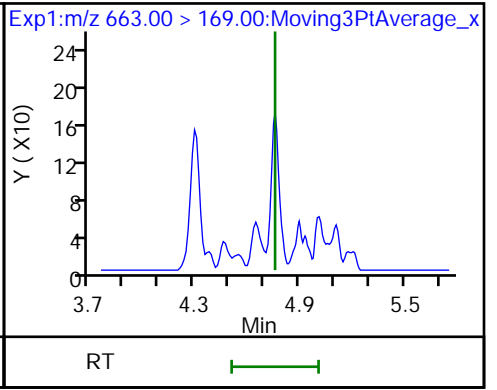
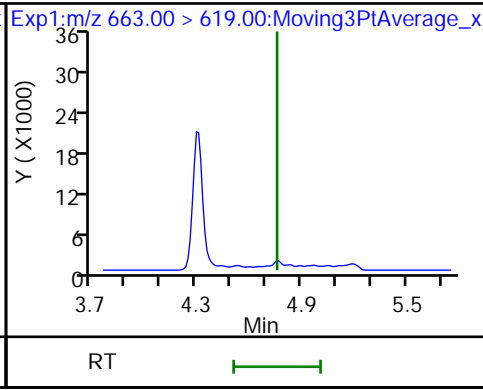
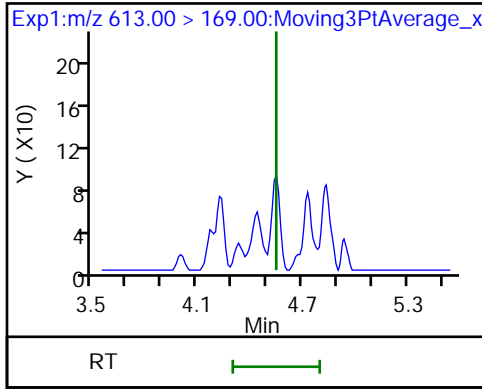
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

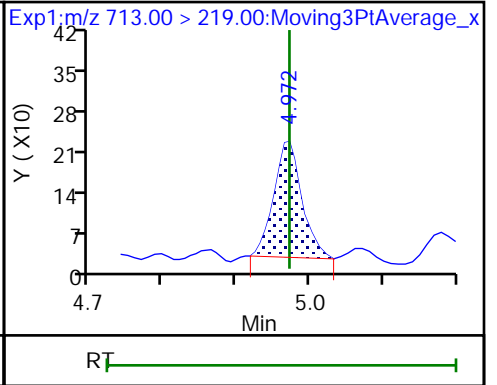
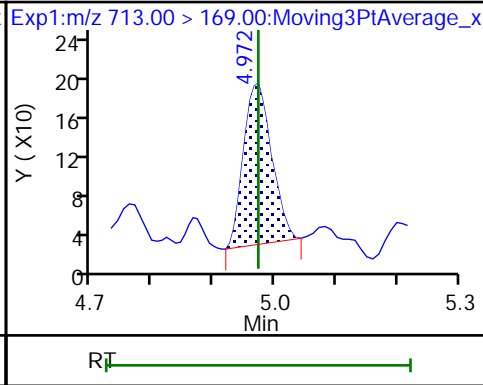
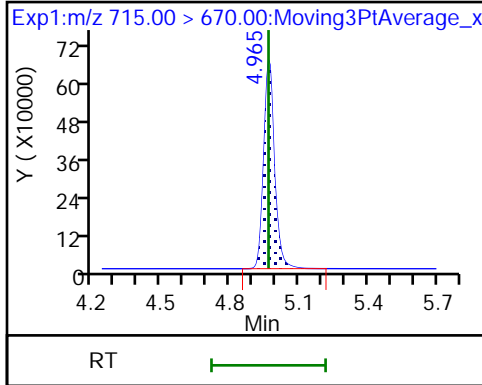
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)



Euofins TestAmerica, Burlington

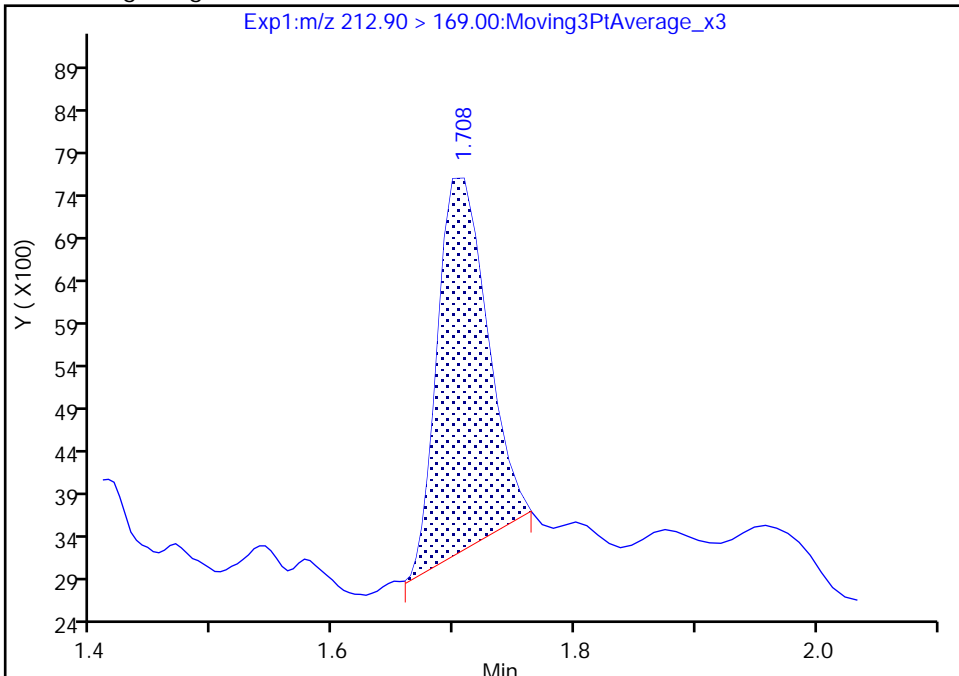
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

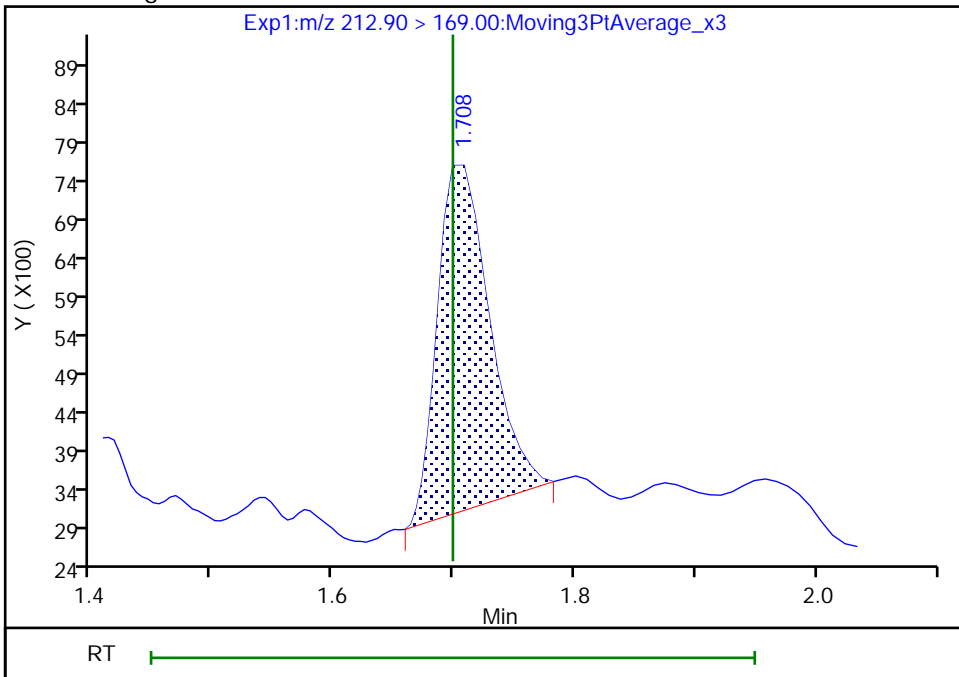
RT: 1.71  
Area: 12396  
Amount: 0.256151  
Amount Units: ng/ml

Processing Integration Results



RT: 1.71  
Area: 13346  
Amount: 0.275781  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:36:28  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

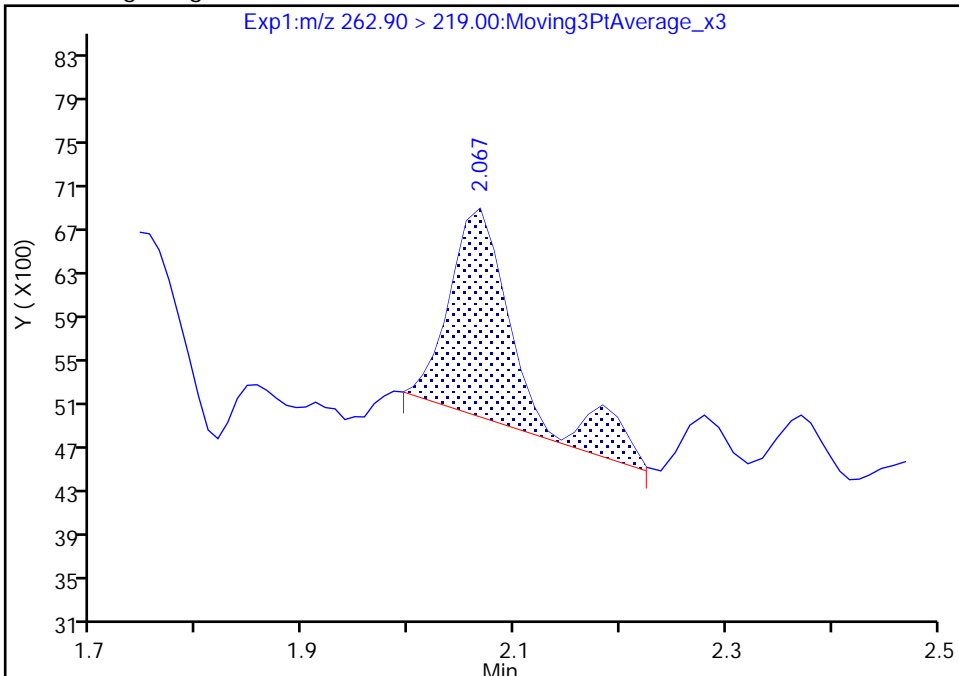
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

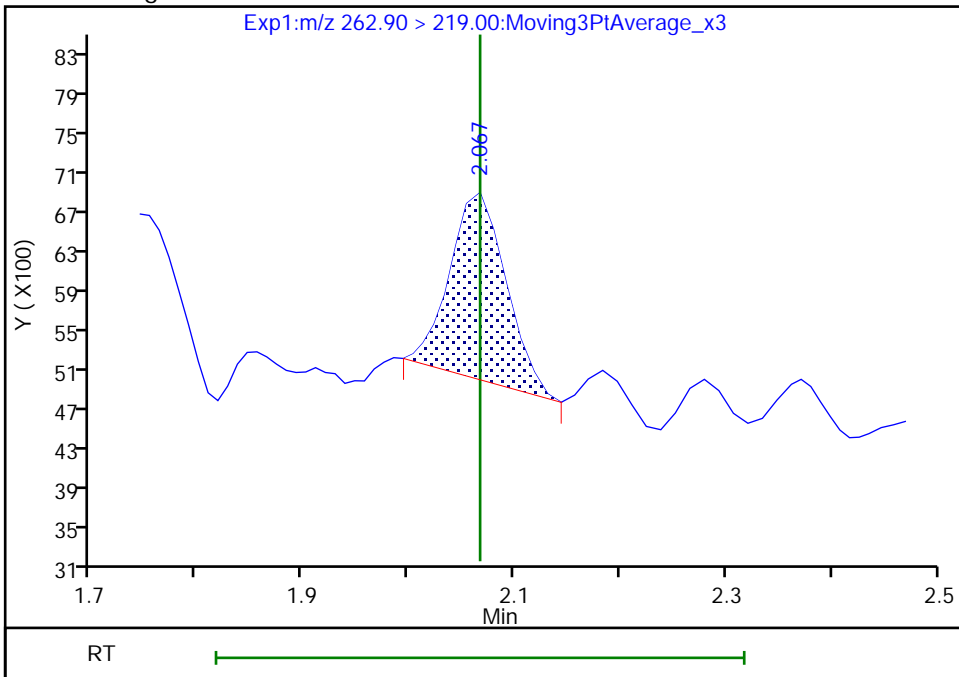
RT: 2.07  
Area: 8207  
Amount: 0.164198  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 6828  
Amount: 0.136608  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:36:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

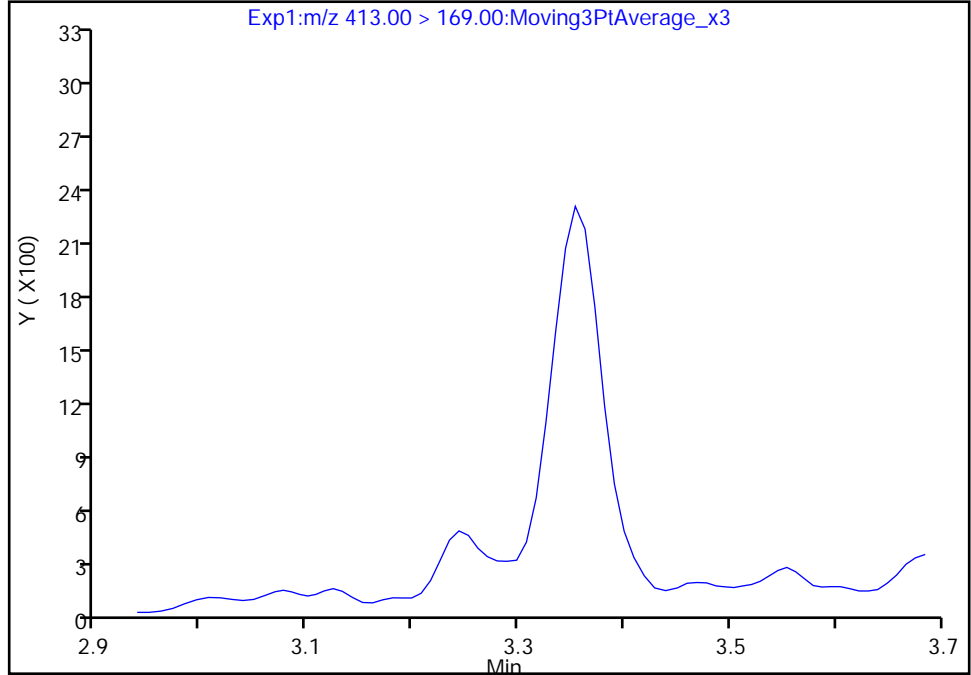
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

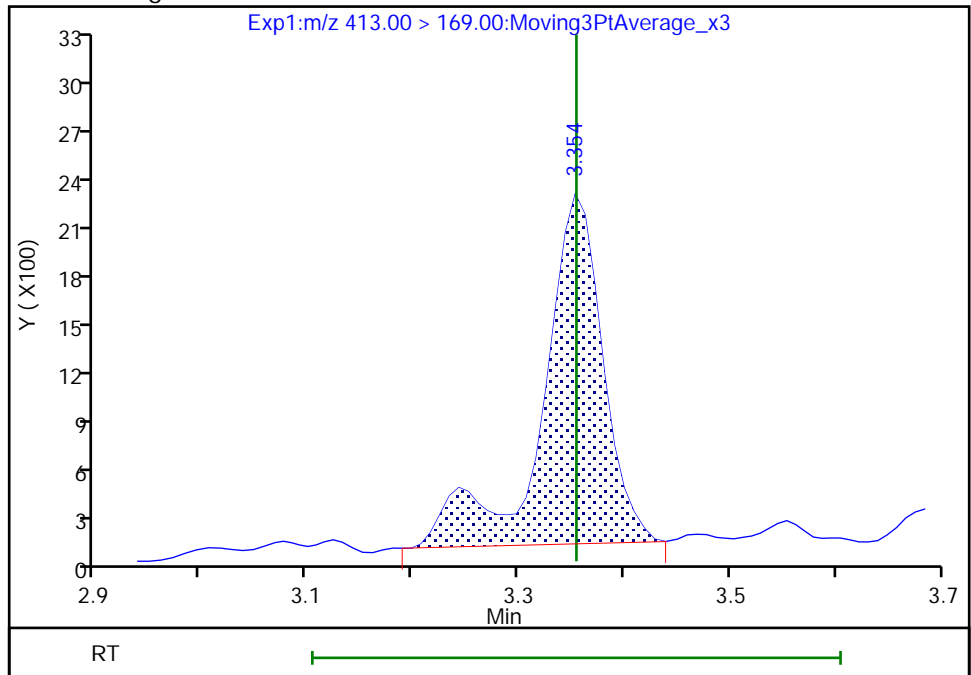
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35  
Area: 8623  
Amount: 0.378221  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:37:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

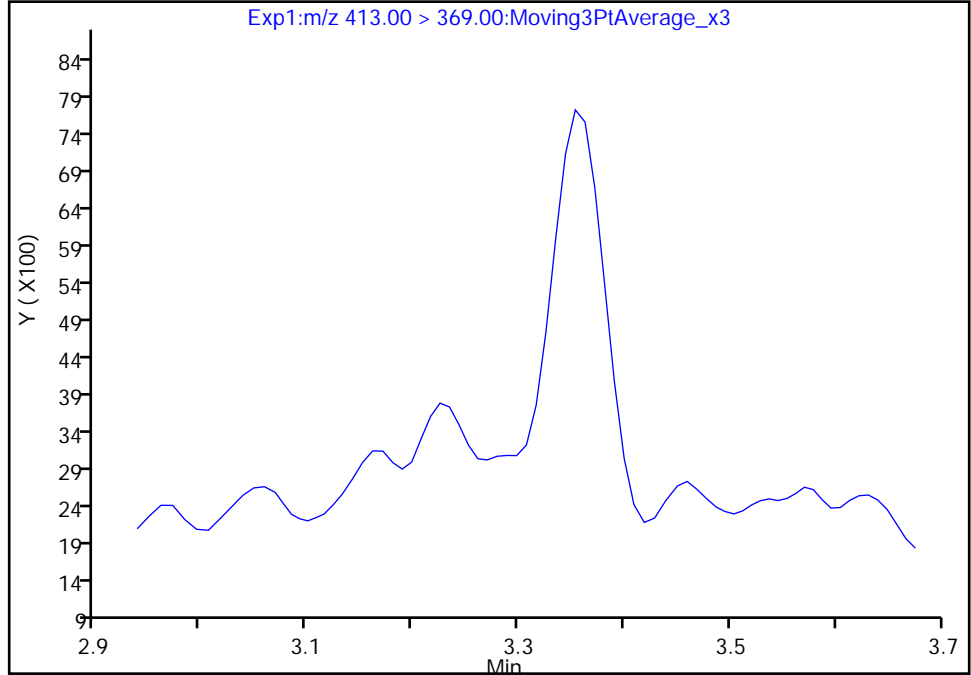
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

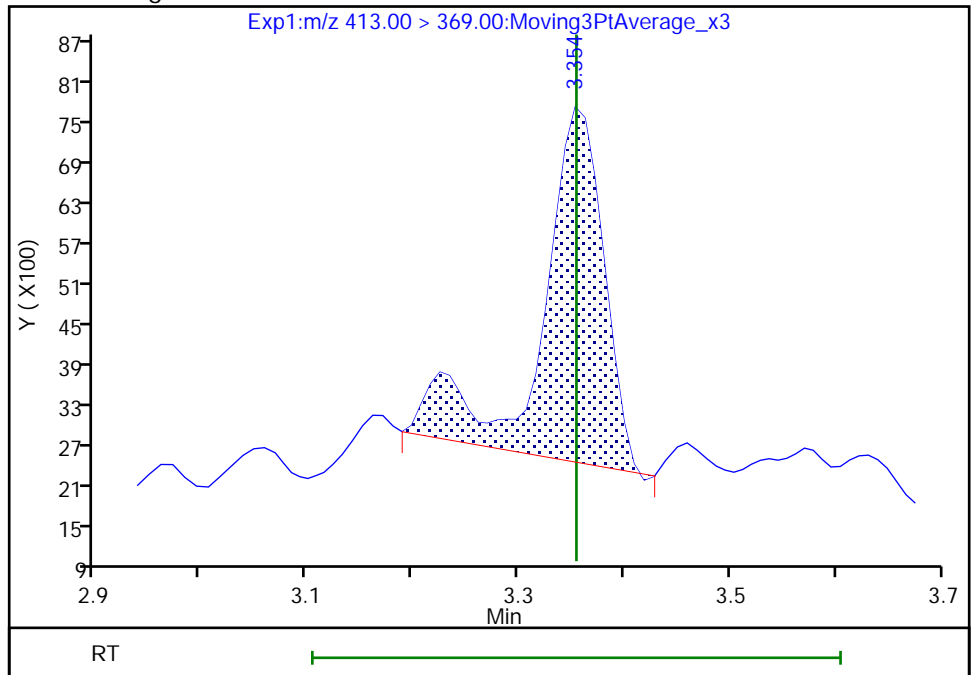
Not Detected  
Expected RT: 3.35

Processing Integration Results



RT: 3.35  
Area: 21671  
Amount: 0.378221  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

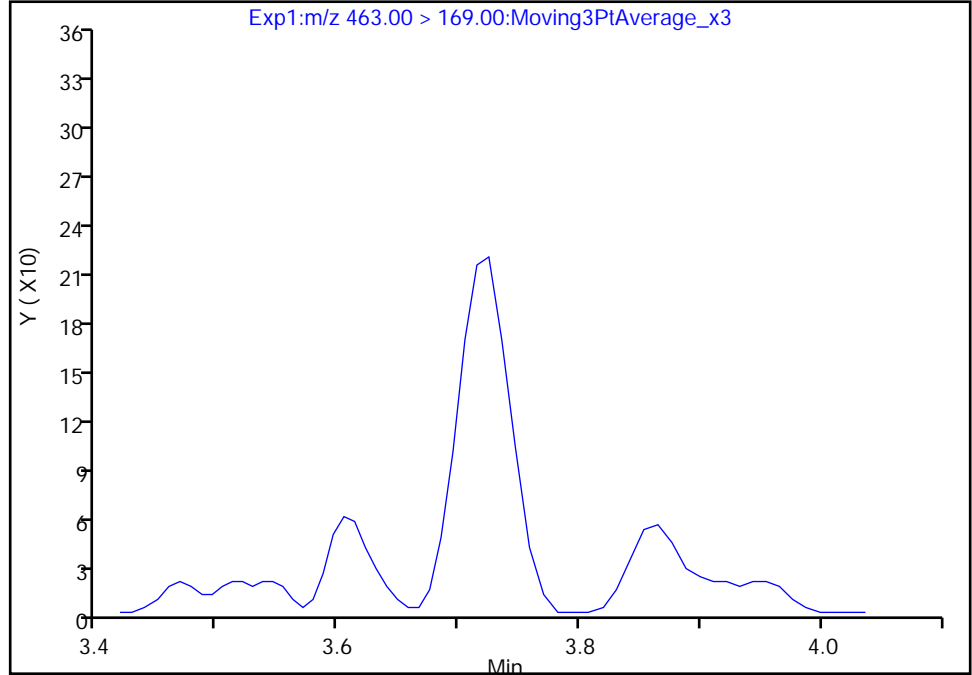
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

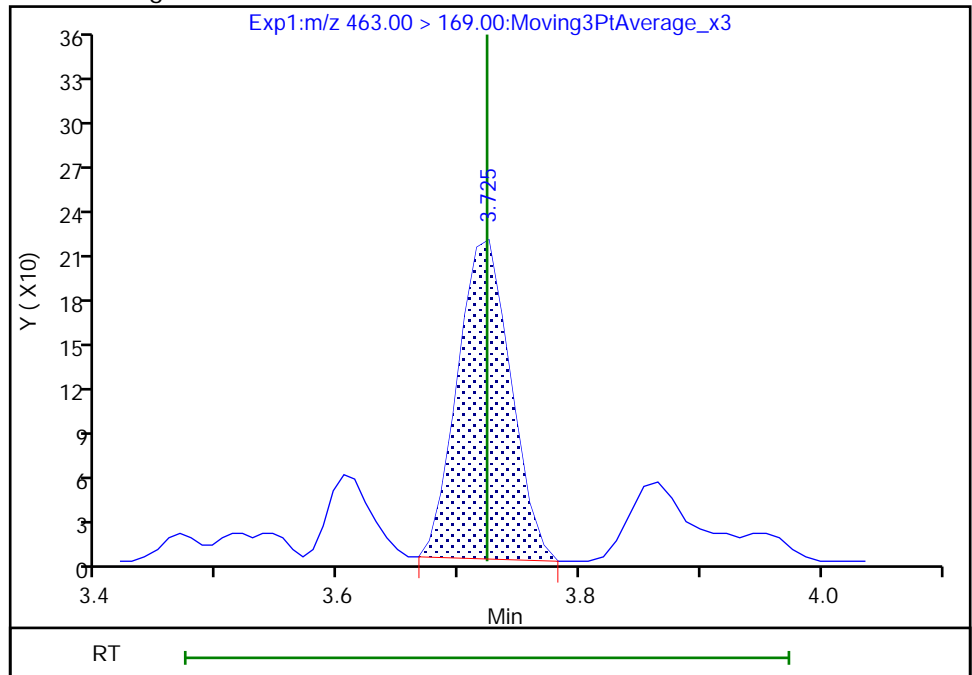
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.72  
Area: 662  
Amount: 0.116765  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:37:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

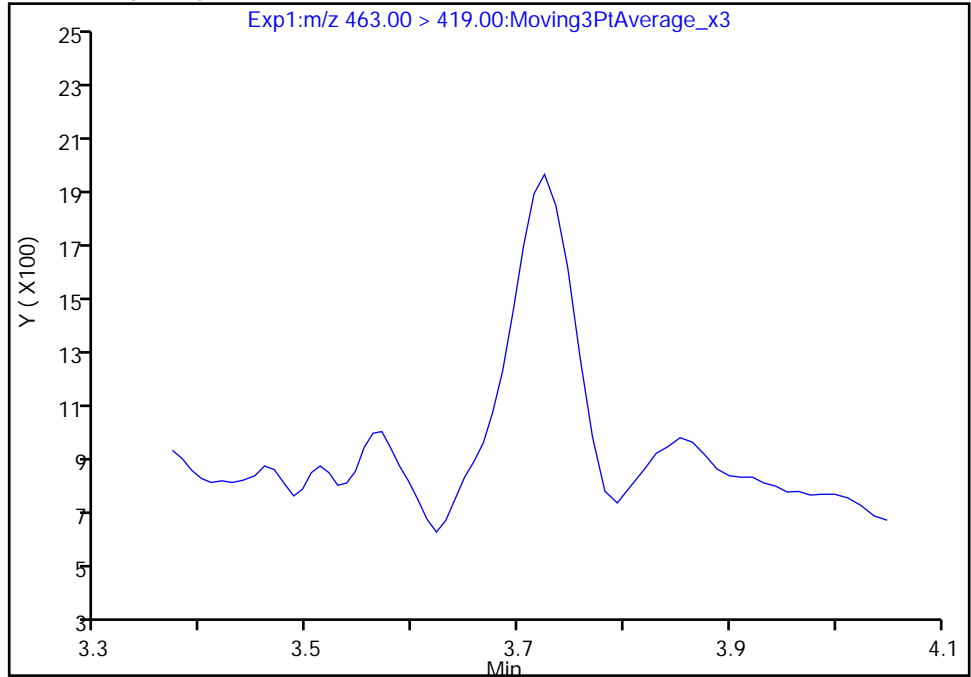
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

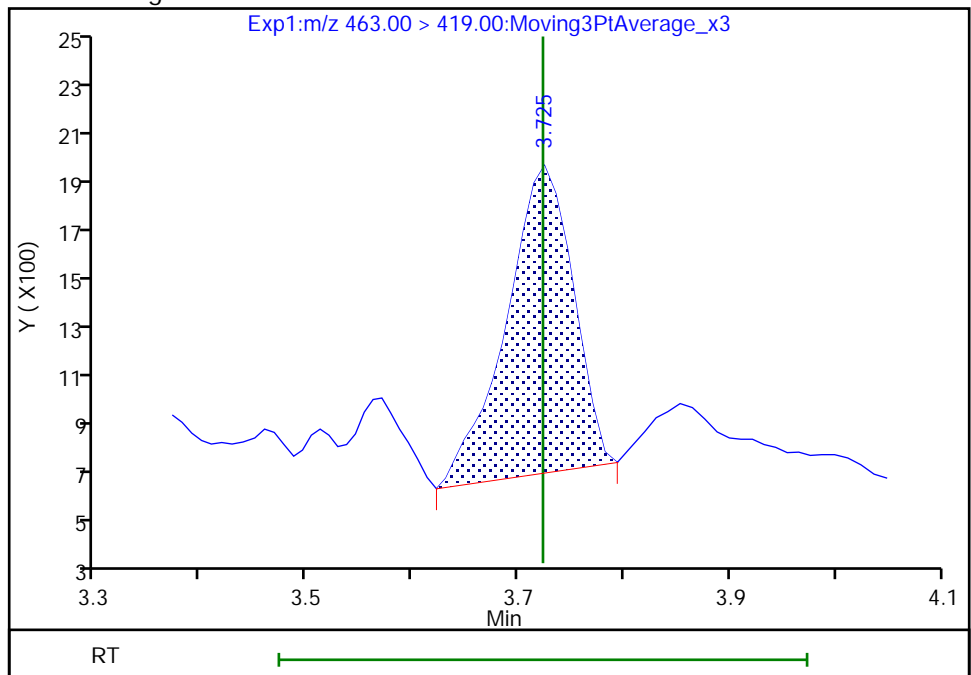
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.72  
Area: 5351  
Amount: 0.116765  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

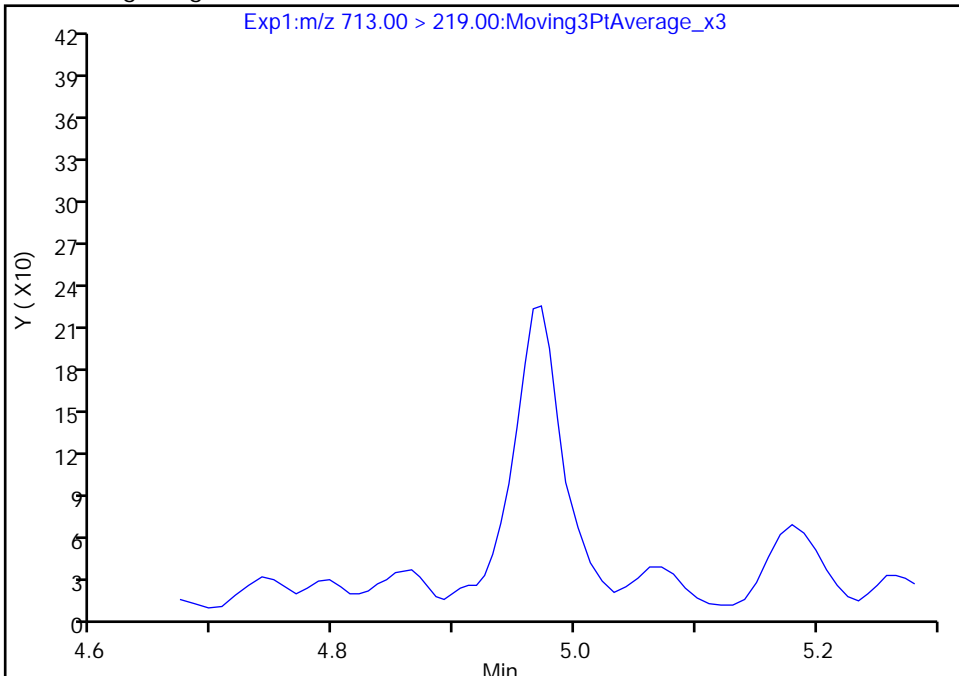
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

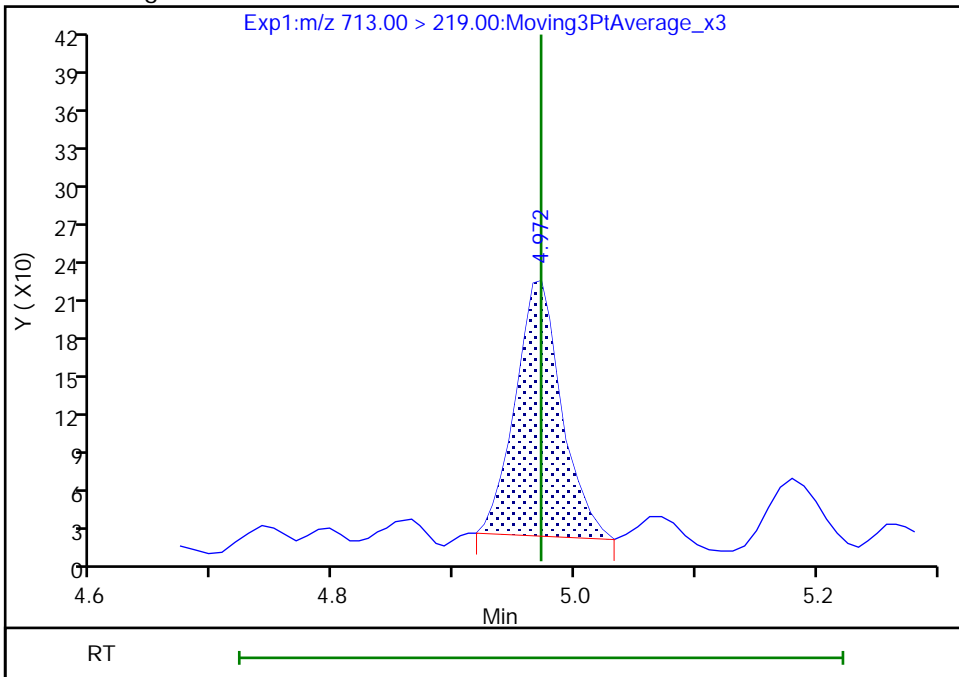
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 529  
Amount: 0.090672  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:39:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

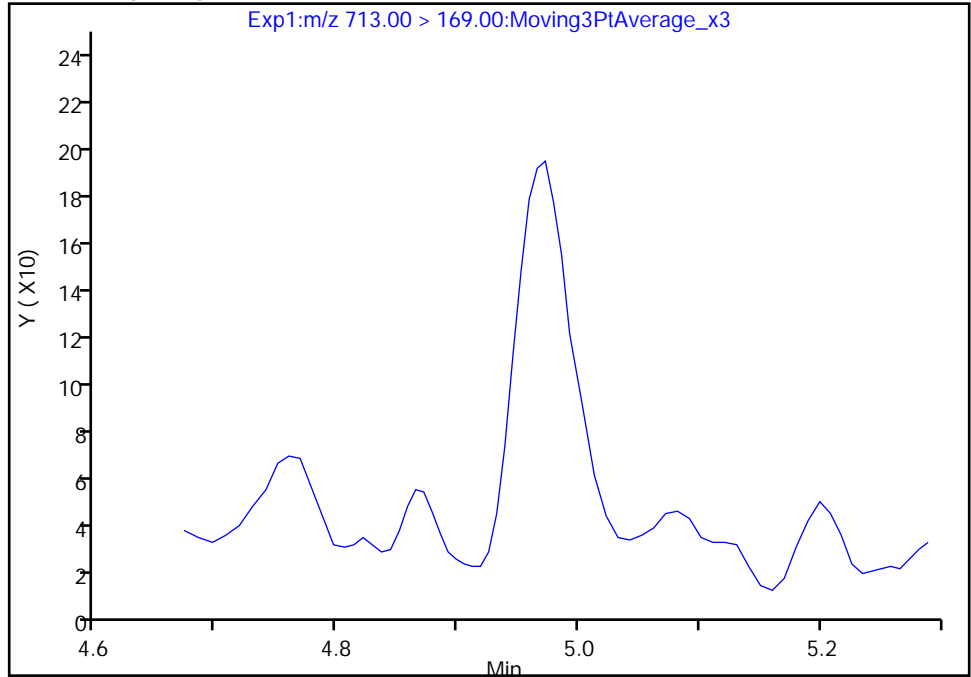
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

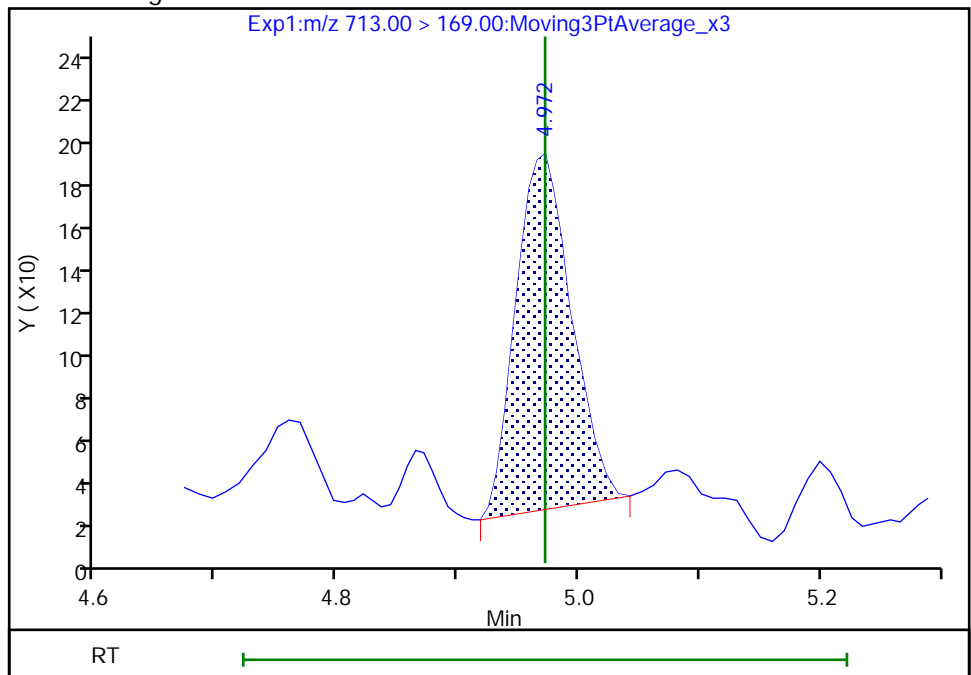
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 522  
Amount: 0.090672  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

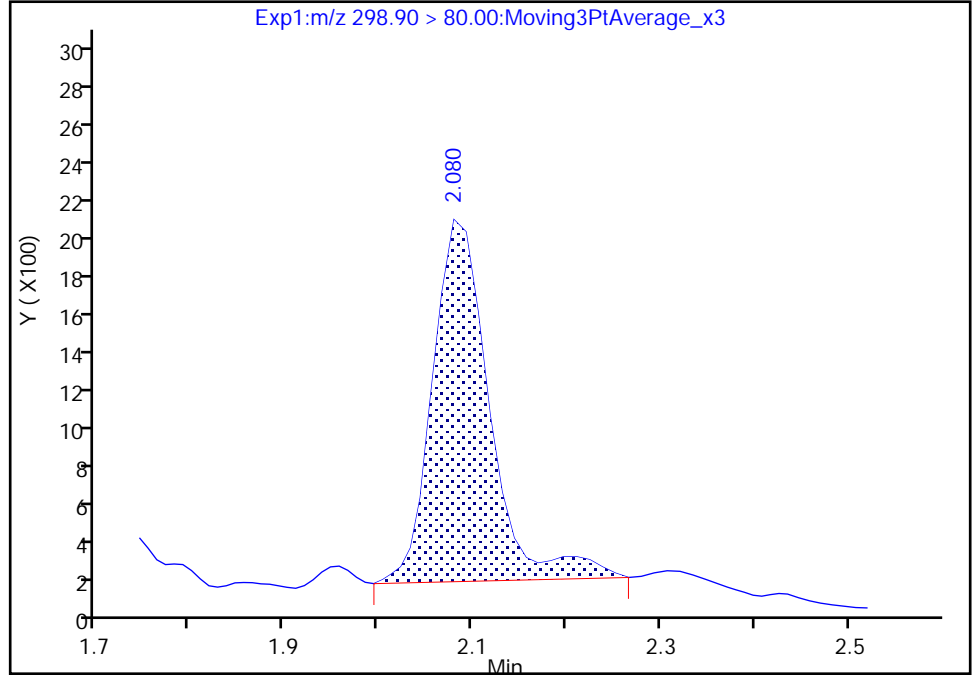
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

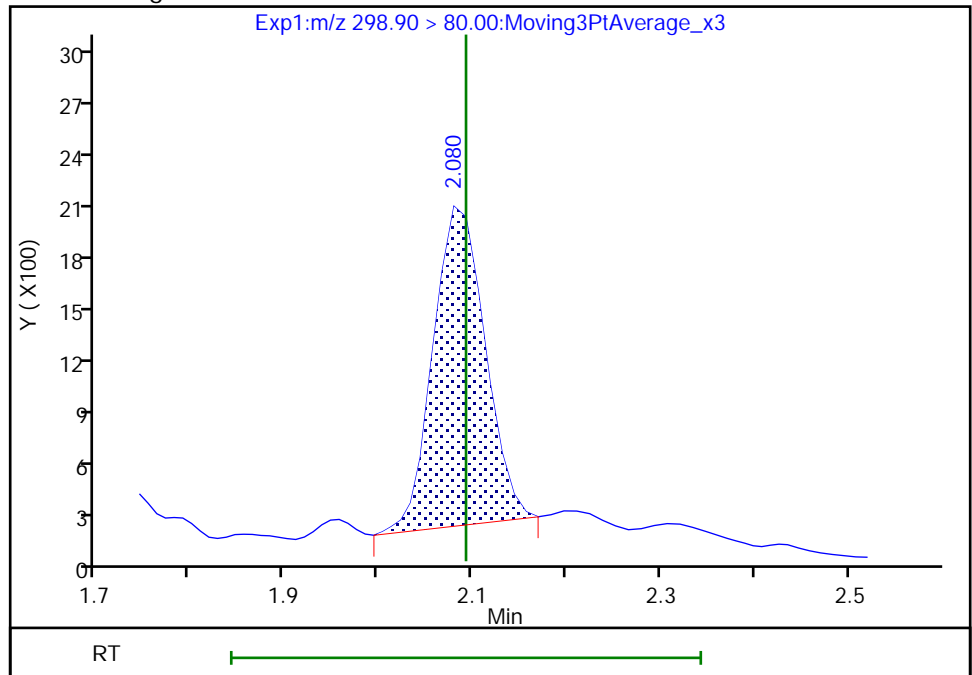
RT: 2.08  
Area: 7932  
Amount: 0.131951  
Amount Units: ng/ml

Processing Integration Results



RT: 2.08  
Area: 7035  
Amount: 0.117029  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:36:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

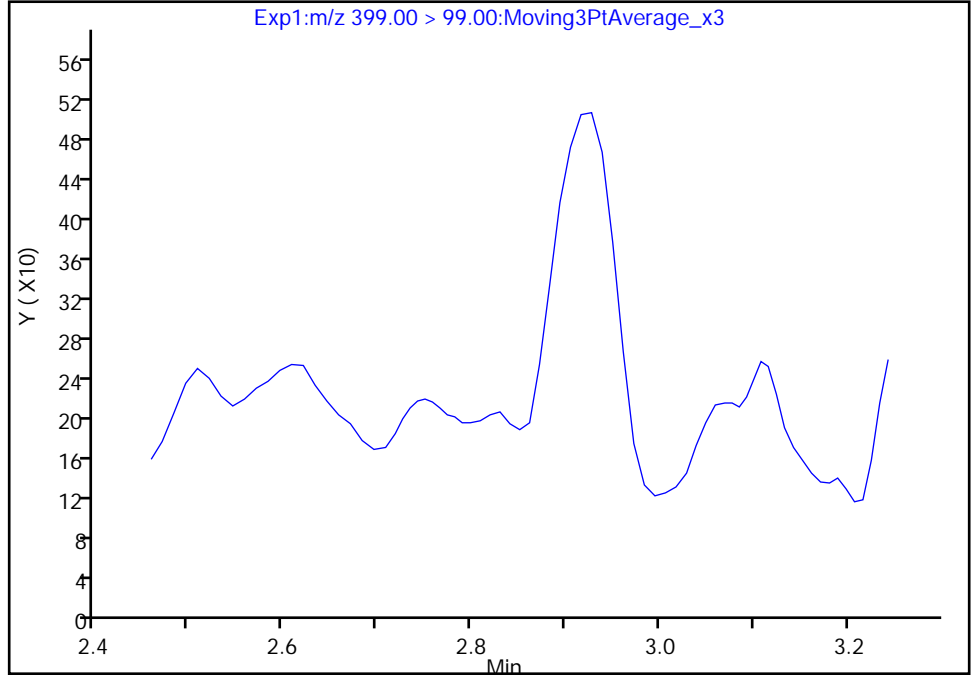
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

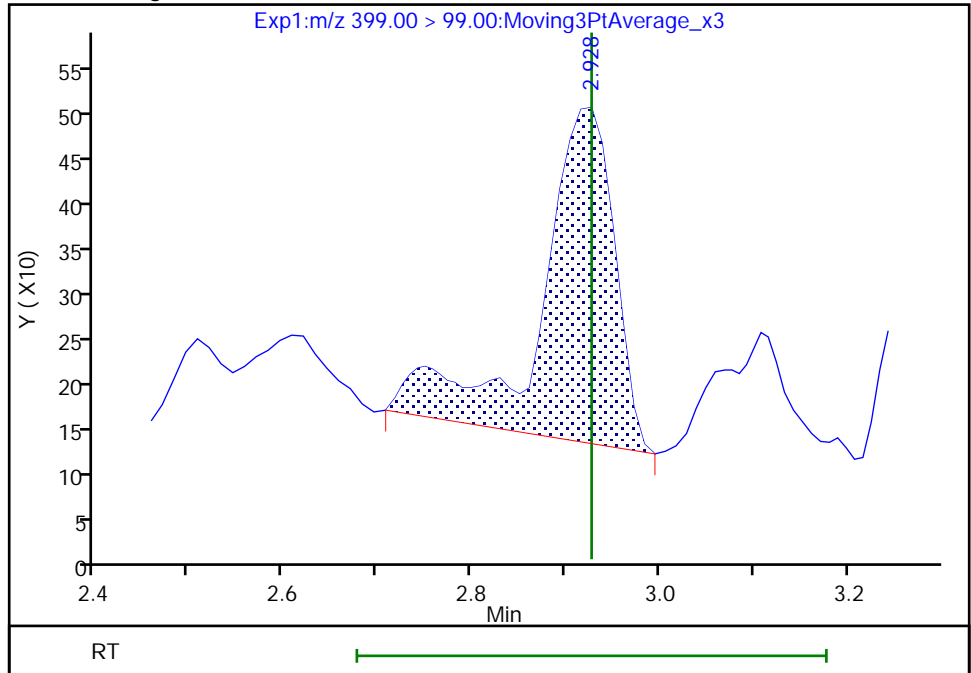
Not Detected  
Expected RT: 2.93

Processing Integration Results



RT: 2.93  
Area: 2063  
Amount: 0.170559  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:37:06  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

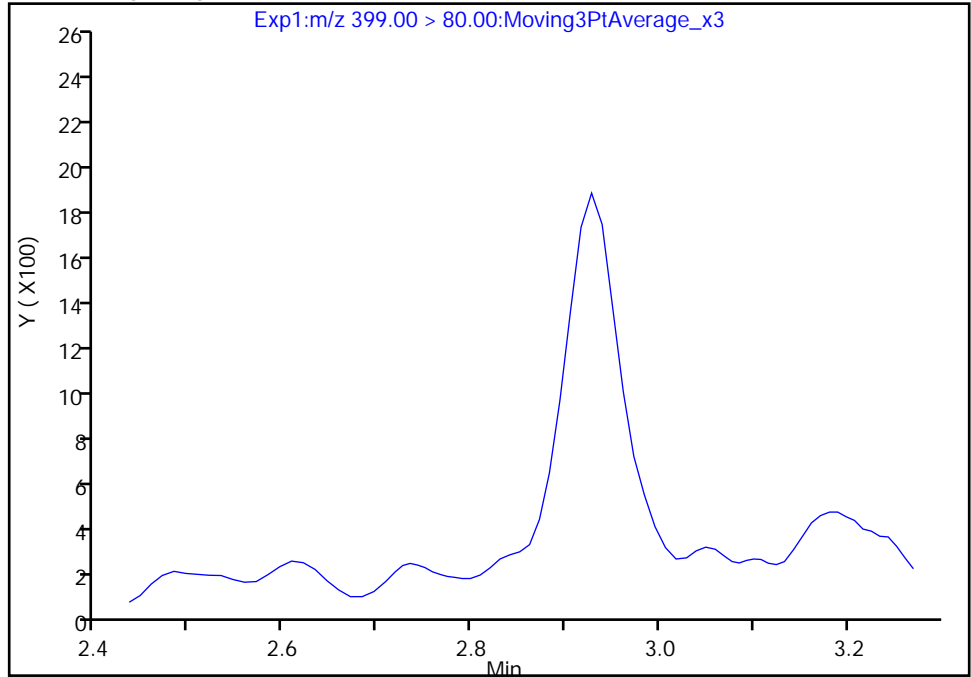
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

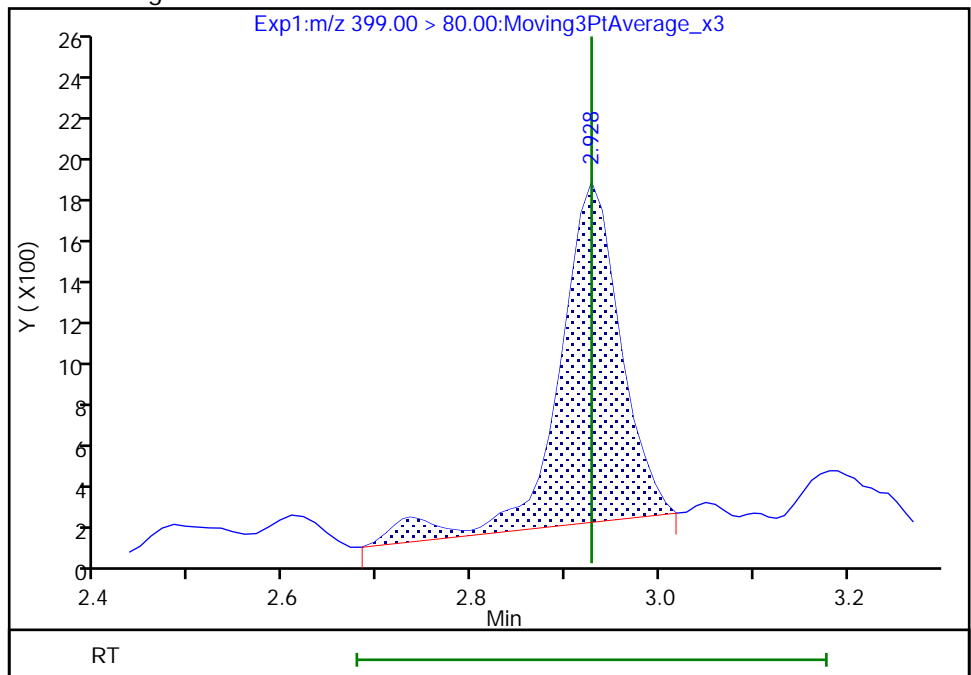
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 7444  
Amount: 0.170559  
Amount Units: ng/ml





Eurofins TestAmerica, Burlington

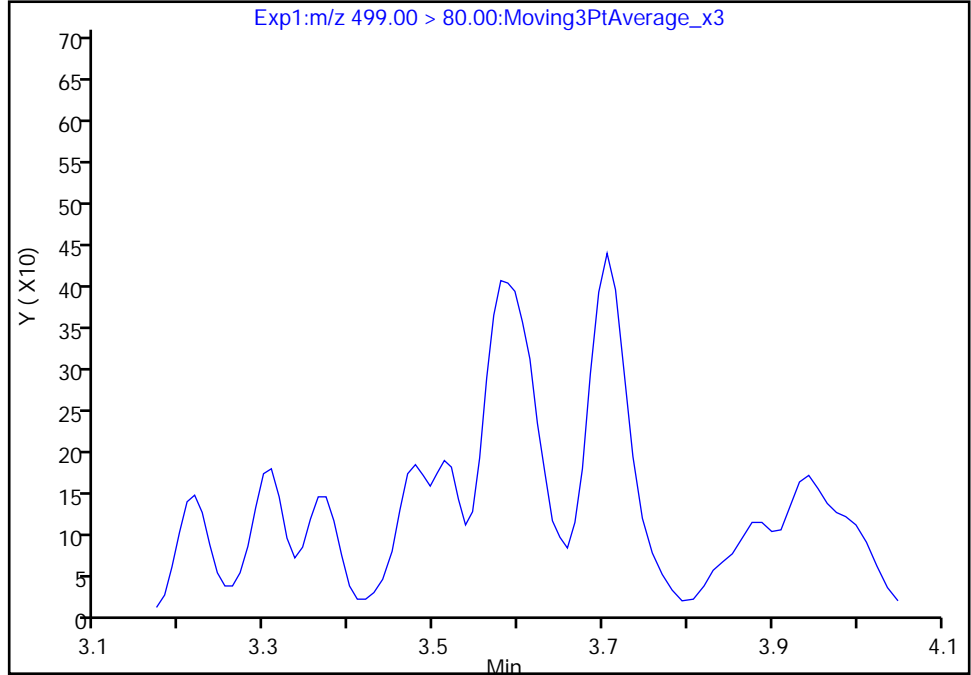
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Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

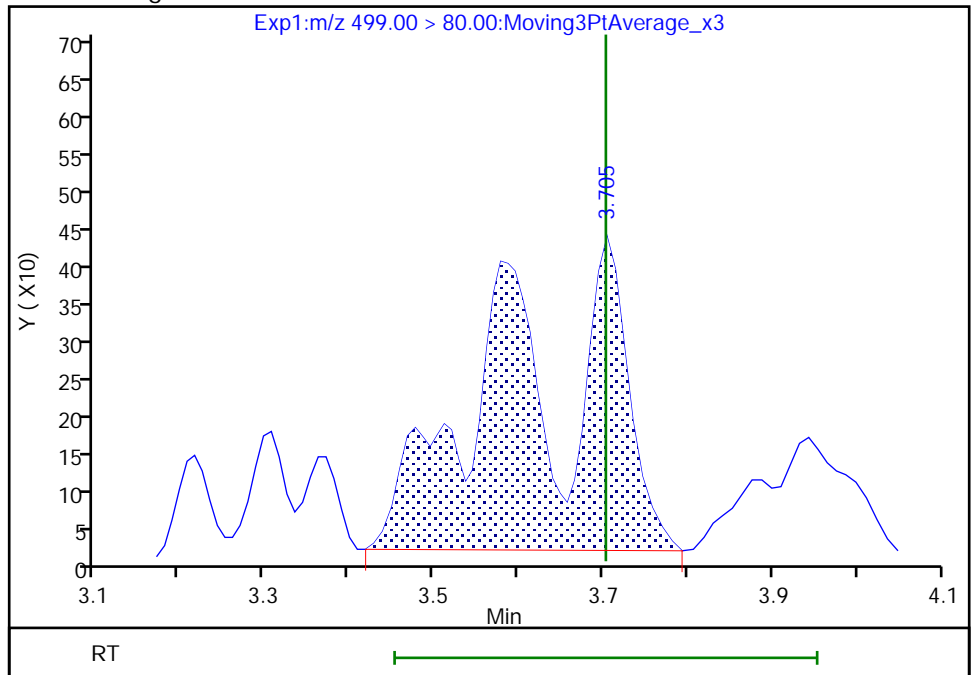
Not Detected  
Expected RT: 3.70

Processing Integration Results



RT: 3.70  
Area: 3889  
Amount: 0.166397  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:37:56  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

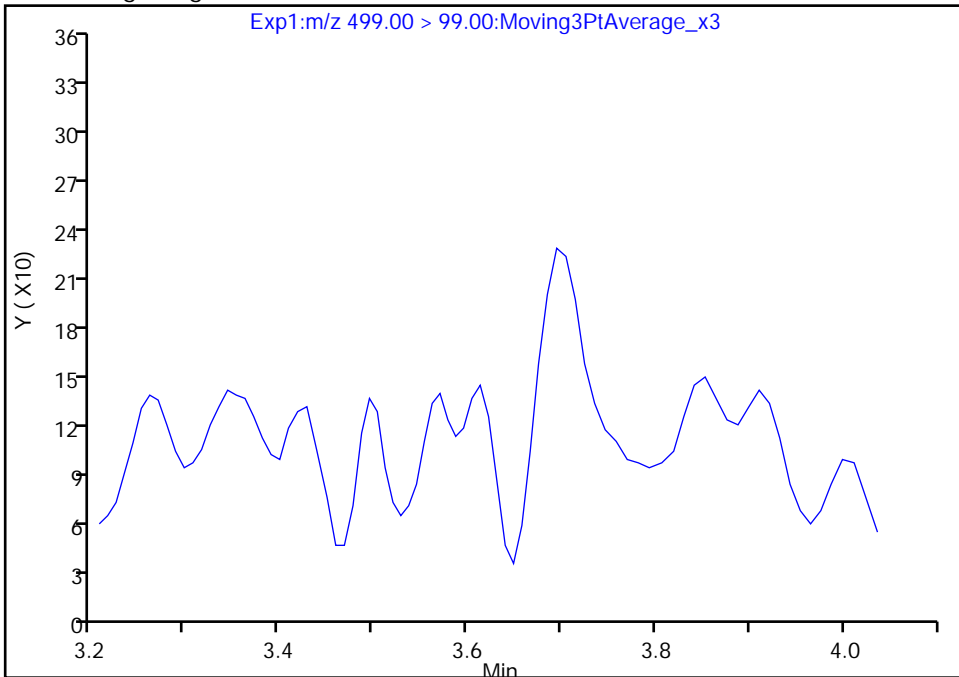
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Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

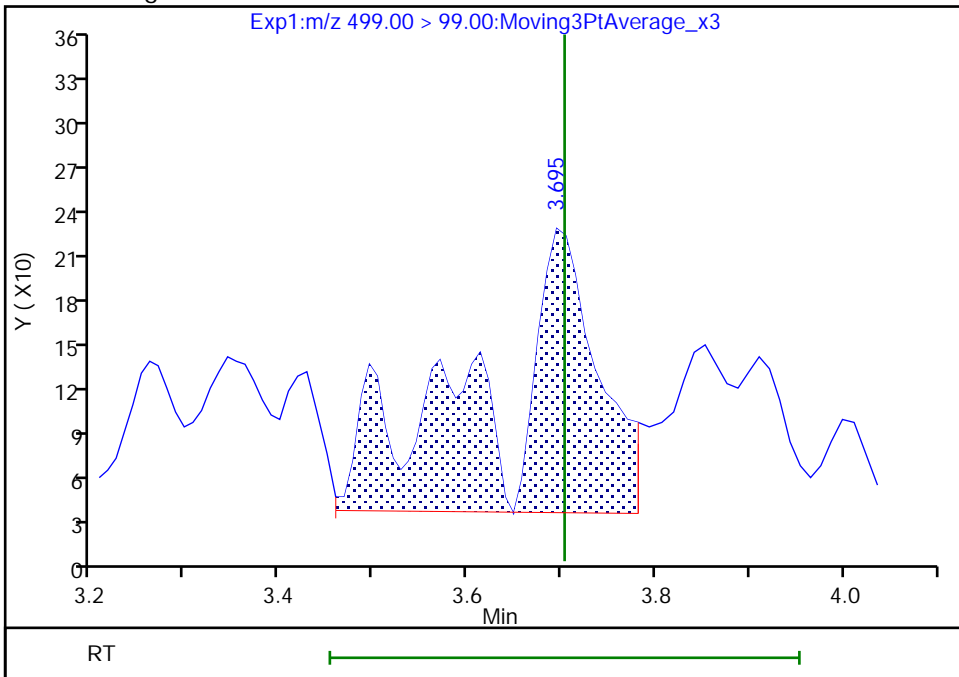
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.69  
Area: 1543  
Amount: 0.166397  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

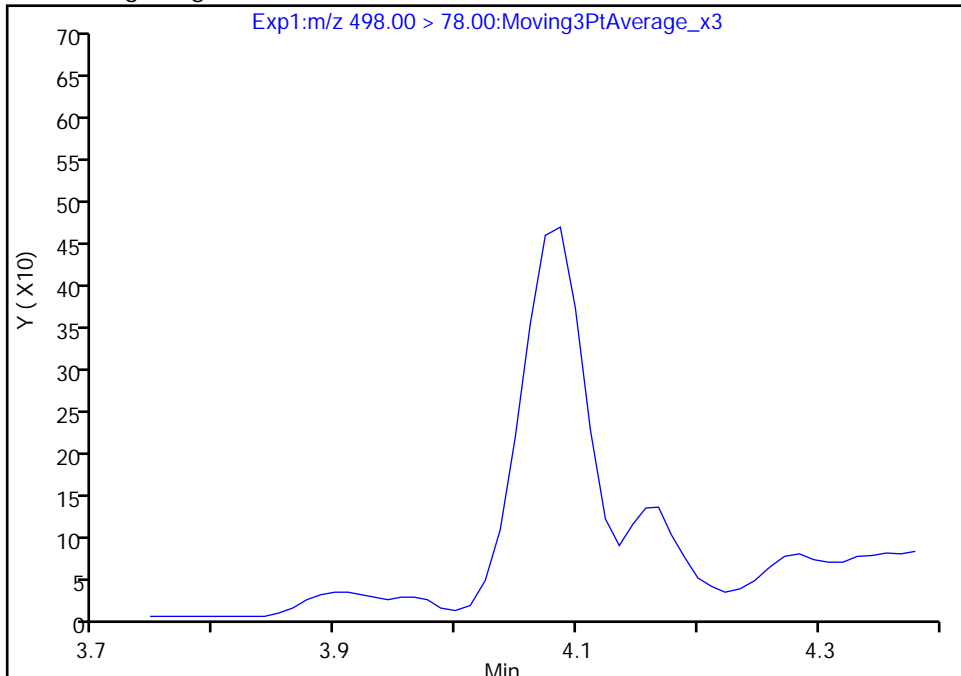
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Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

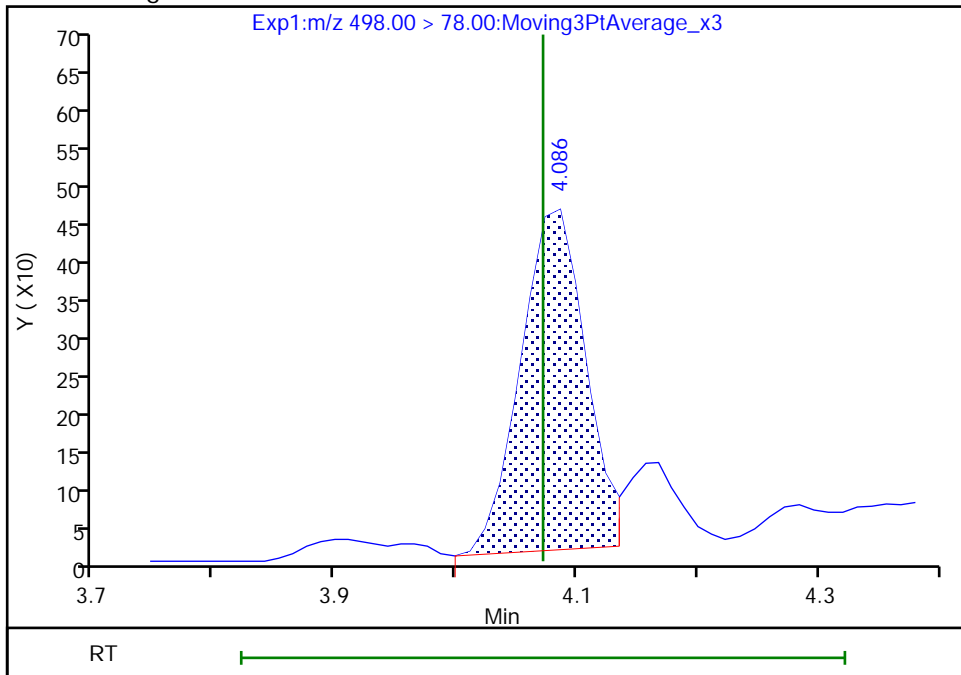
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.09  
Area: 1681  
Amount: 0.057172  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:39:09  
Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins TestAmerica, Burlington

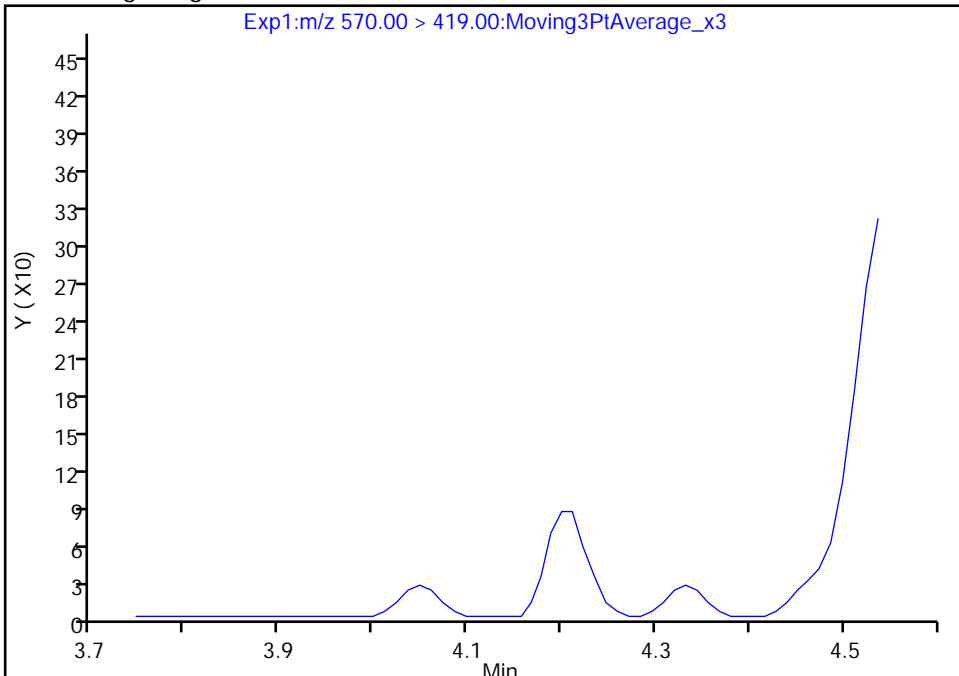
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

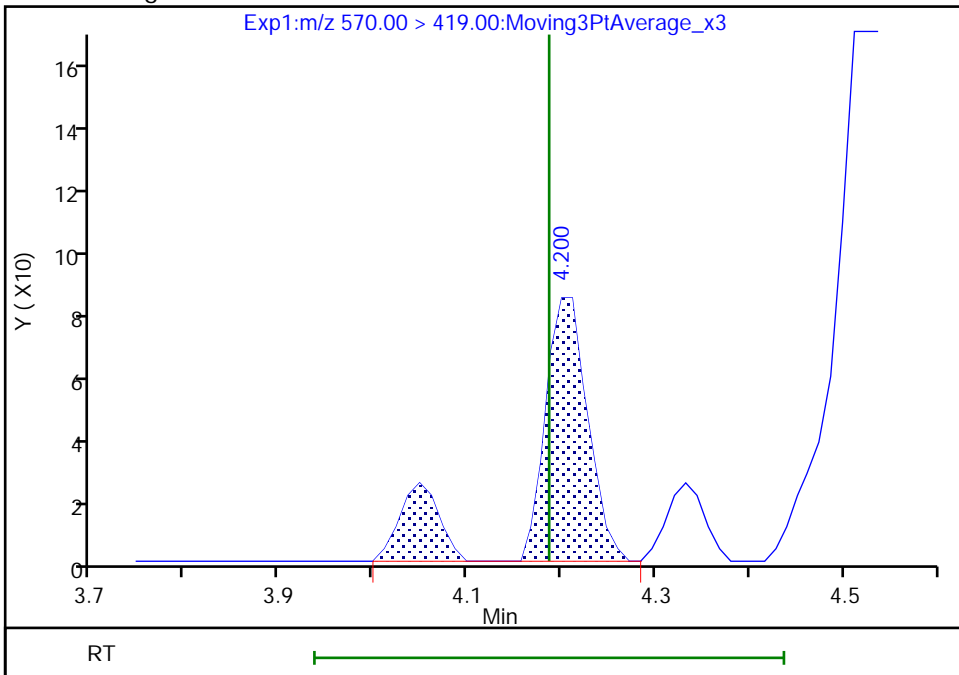
Not Detected  
Expected RT: 4.19

Processing Integration Results



RT: 4.20  
Area: 332  
Amount: 0.112827  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:39:24  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

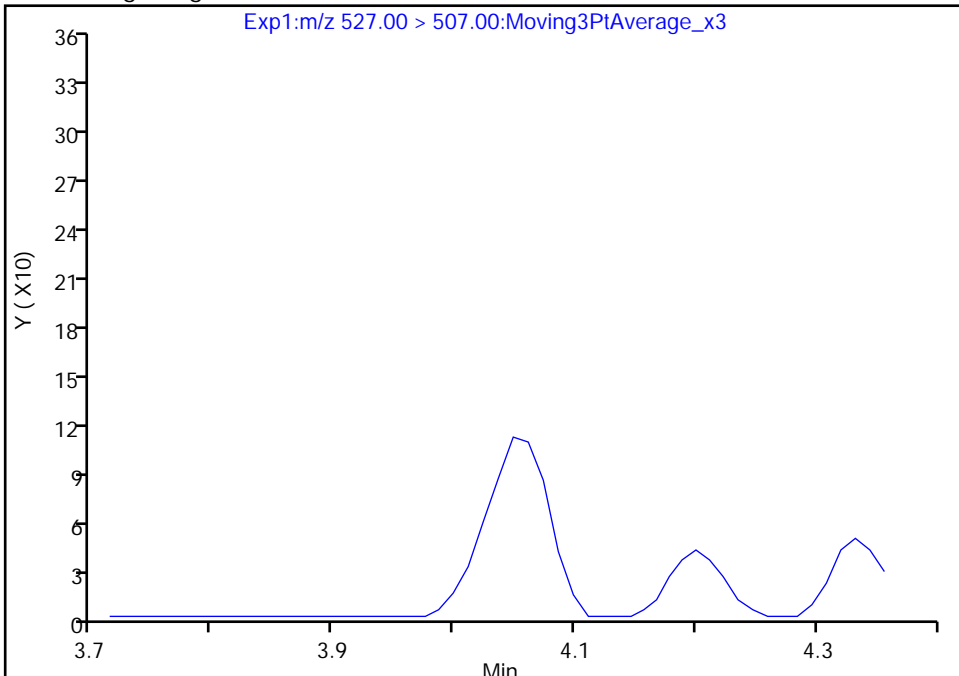
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E005.d  
Injection Date: 02-Aug-2019 04:21:26 Instrument ID: LC812  
Lims ID: 480-156213-F-2-A Lab Sample ID: 200-156213-2  
Client ID: 356023-MW8BD  
Operator ID: lc812tech ALS Bottle#: 52 Worklist Smp#: 5  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

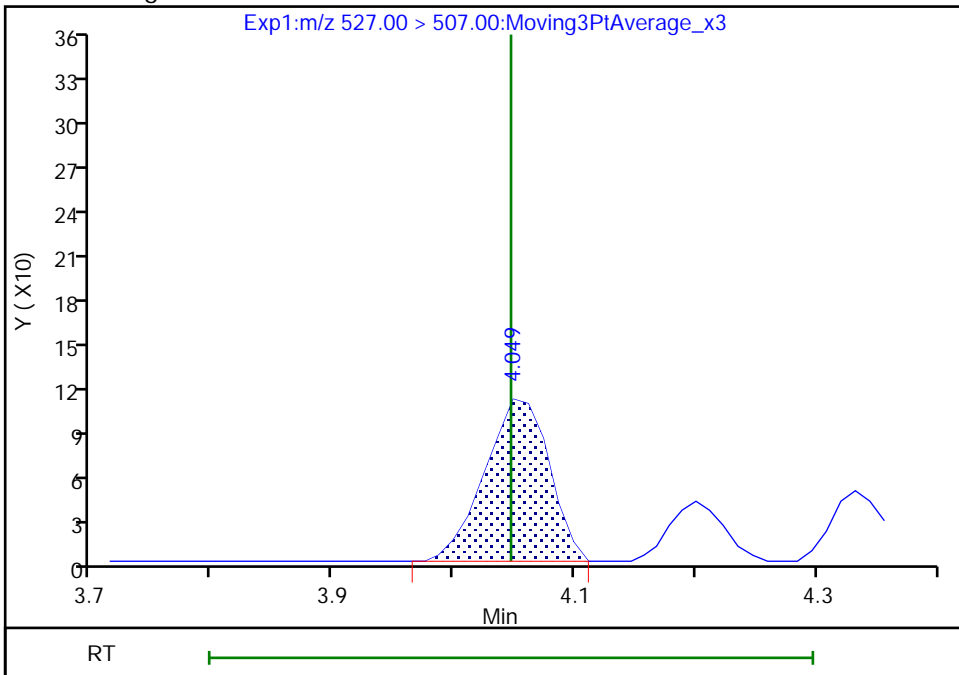
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.05  
Area: 399  
Amount: 0.041062  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:38:28  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW16 Lab Sample ID: 480-156213-3  
 Matrix: Water Lab File ID: SC080119E006.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 17:10  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 314.5 (mL) Date Analyzed: 08/02/2019 04:29  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.6	0.79
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.6	0.50
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.60
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.72
335-67-1	Perfluorooctanoic acid (PFOA)	0.52	J	1.6	0.50
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.21
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.61
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.42
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.47
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.73
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.64
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.48
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		7.9	7.9
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.7
39108-34-4	8:2 FTS	ND		16	2.3

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW16 Lab Sample ID: 480-156213-3  
 Matrix: Water Lab File ID: SC080119E006.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 17:10  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 314.5 (mL) Date Analyzed: 08/02/2019 04:29  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	78		25-150
STL00992	13C4 PFBA	94		25-150
STL01893	13C5 PFPeA	90		25-150
STL00993	13C2 PFHxA	90		50-150
STL01892	13C4 PFHpA	95		50-150
STL00990	13C4 PFOA	82		50-150
STL00995	13C5 PFNA	88		50-150
STL00996	13C2 PFDA	85		50-150
STL00997	13C2 PFUnA	88		50-150
STL00998	13C2 PFDoA	85		50-150
STL02116	13C2 PFTeDA	66		50-150
STL02337	13C3 PFBS	90		50-150
STL00994	18O2 PFHxS	88		50-150
STL00991	13C4 PFOS	88		50-150
STL02118	d3-NMeFOSAA	67		50-150
STL02117	d5-NEtFOSAA	72		50-150
STL02279	M2-6:2 FTS	95		25-150
STL02280	M2-8:2 FTS	102		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
 Lims ID: 480-156213-F-3-A  
 Client ID: 356023-MW16  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 04:29:27 ALS Bottle#: 53 Worklist Smp#: 6  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-3-A  
 Misc. Info.: 200-0037095-006 Plate: 1 Rack: 4  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 16:45:58  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.506	3978083	47.1	94.2	12541	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.699	1.699	0.0	1.000	11347	0.1547		2.1		M
D 3 13C5 PFPeA	267.90 > 223.00	2.054	2.054	0.0	0.612	3567554	45.0	89.9	6739	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.054	2.067	-0.013	1.000	10695	0.1549		0.4		M
D 47 13C3 PFBS	301.90 > 80.00	2.080	2.080	0.0	0.620	3263429	41.9	90.1	693562	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.080	2.093	-0.013	1.000	9586	0.1344	Target=1.90	13.6		
298.90 > 99.00	2.080	2.093	-0.013	1.000	4725		2.03(0.95-2.85)	4.6		
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.733	3534863	44.9	89.7	7522	
D 11 18O2 PFHxS	403.00 > 84.00	2.916	2.916	0.0	0.869	1905287	41.8	88.3	8154	
D 9 13C4 PFHpA	367.00 > 322.00	2.928	2.928	0.0	0.873	3678833	47.7	95.3	7464	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.928	2.928	0.0	1.004	10440	0.1967	Target=3.37	13.3		M
399.00 > 99.00	2.916	2.928	-0.012	1.000	3078		3.39(1.69-5.06)	4.3		M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.928	2.928	0.0	1.000	2720	0.0395	Target=3.76	1.1		M
363.00 > 169.00	2.928	2.928	0.0	1.000	1146		2.37(1.88-5.65)	5.0		M
D 12 M2-6:2 FTS	429.00 > 81.00	3.336	3.335	0.001	0.994	429559	45.2	95.2	853	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfoni	427.00 > 407.00	3.336	3.336	0.0	1.000	14207	0.9160		28.9	
D 14 13C4 PFOA	417.00 > 372.00	3.355	3.344	0.011	1.000	3328959	40.8	81.7	10802	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.345	3.355	-0.010	0.997	23622	0.3261	Target=2.84	2.3		M
413.00 > 169.00	3.355	3.355	0.0	1.000	7173		3.29(1.42-4.25)	27.6		M
* 62 13C2 PFOA										
415.00 > 370.00	3.355	3.355	0.0		4481285	50.0			10045	
D 18 13C4 PFOS										
503.00 > 80.00	3.703	3.695	0.008	1.104	1599936	42.1		88.0	9356	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.703	3.703	0.0	1.000	7154	0.2258	Target=4.33	18.8		M
499.00 > 99.00	3.703	3.703	0.0	1.000	1897		3.77(2.16-6.49)	6.3		M
D 19 13C5 PFNA										
468.00 > 423.00	3.723	3.715	0.008	1.110	3257733	43.8		87.6	19876	
D 23 13C2 PFDA										
515.00 > 470.00	4.034	4.036	-0.002	1.203	2513859	42.3		84.5	11915	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.047	4.036	0.011	1.206	428539	48.9		102	1368	
D 21 13C8 FOSA										
506.00 > 78.00	4.072	4.061	0.011	1.214	2675320	39.2		78.3	7267	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.072	4.072	0.0	1.000	3207	0.0657		34.8		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.178	0.009	1.248	255477	33.6		67.3	2599	
28 N-methylperfluorooctanesulfonamido										M
570.00 > 419.00	4.198	4.187	0.011	1.003	128	0.0331		0.3		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.307	4.296	0.011	1.284	2393280	44.2		88.3	13091	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.307	4.307	0.0	1.000	6556	0.1596	Target=7.95	3.3		RM
563.00 > 169.00	4.307	4.307	0.0	1.000	329		19.93(3.98-11.93)	4.2		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.308	0.011	1.287	305068	36.0		72.1	1229	
D 36 13C2 PFDaA										
615.00 > 570.00	4.549	4.537	0.012	1.356	2485431	42.6		85.2	8991	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.965	4.965	0.0	1.480	2638854	32.9		65.7	7247	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.965	4.972	-0.007	1.000	665	0.0947	Target=1.02	7.9		M
713.00 > 219.00	4.965	4.972	-0.007	1.000	865		0.77(0.51-1.54)	12.1		M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d

Injection Date: 02-Aug-2019 04:29:27

Instrument ID: LC812

Lims ID: 480-156213-F-3-A

Lab Sample ID: 200-156213-3

Client ID: 356023-MW16

Operator ID: lc812tech

ALS Bottle#: 53

Worklist Smp#: 6

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

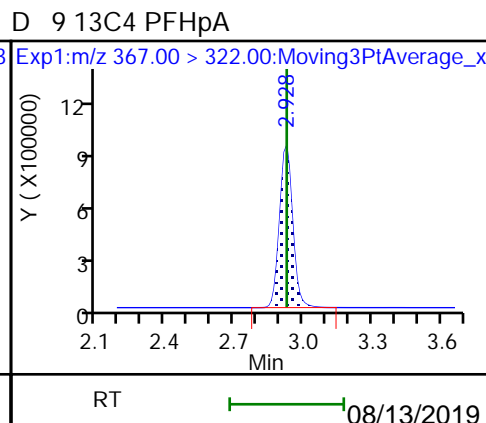
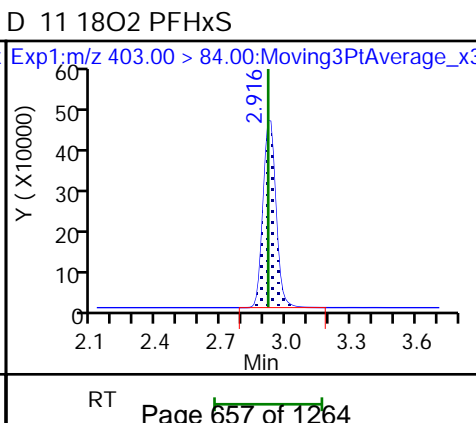
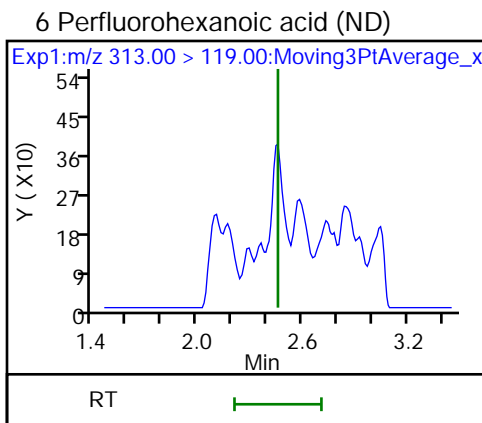
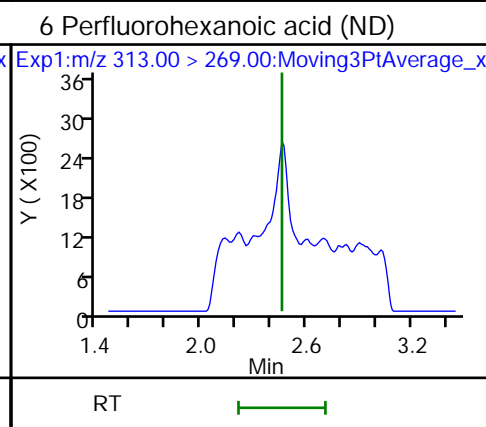
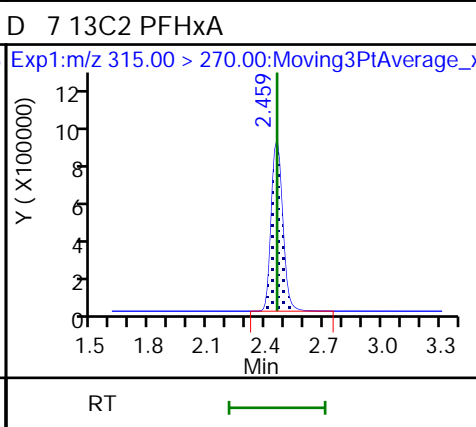
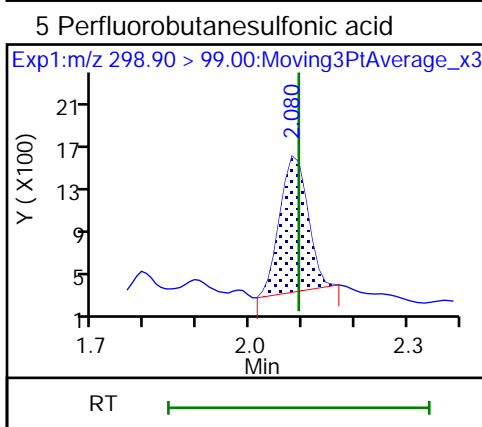
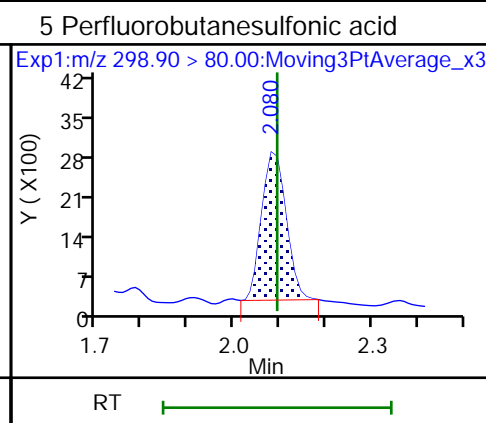
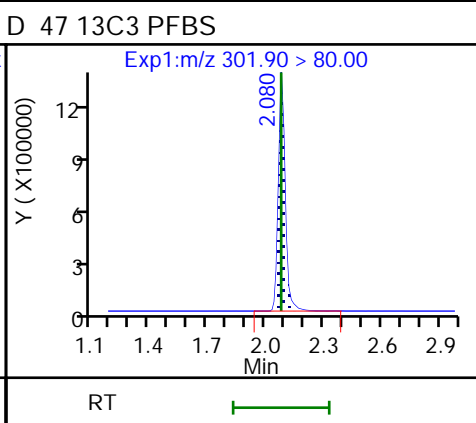
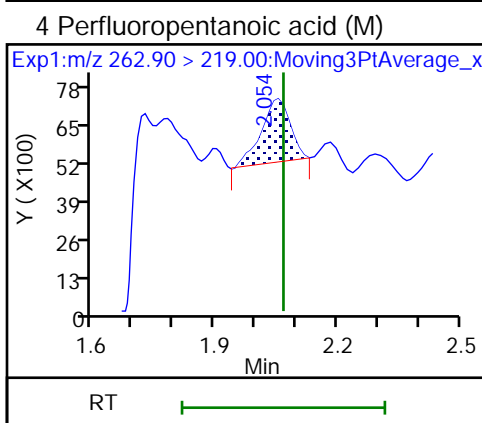
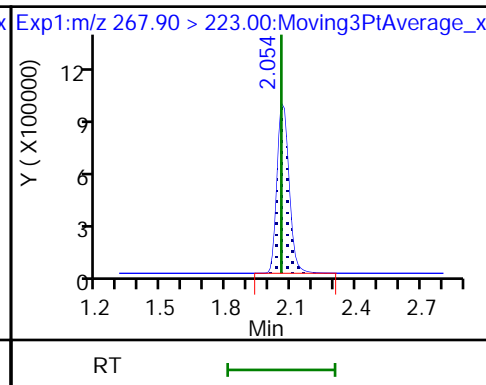
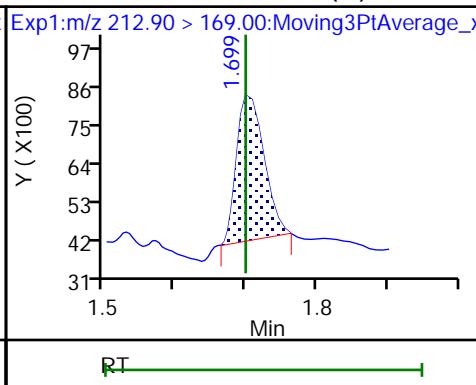
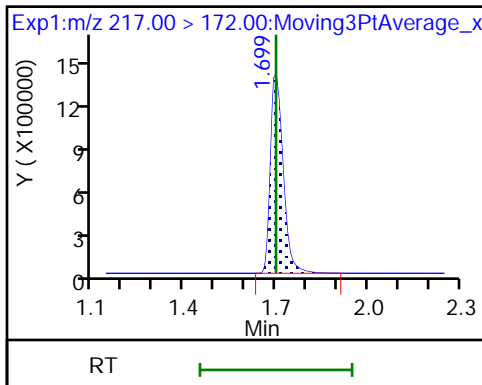
Method: PFC\_LC812

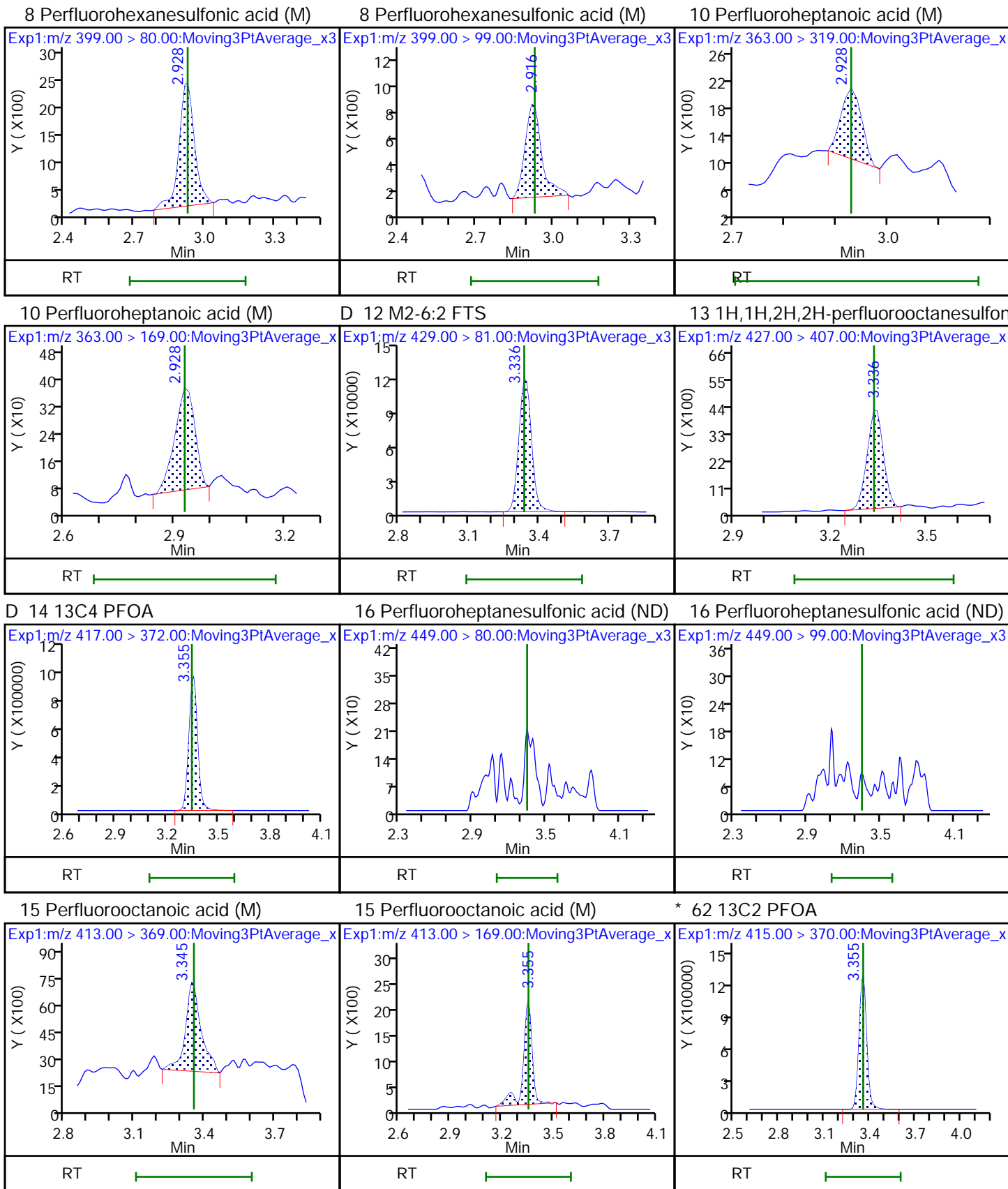
Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

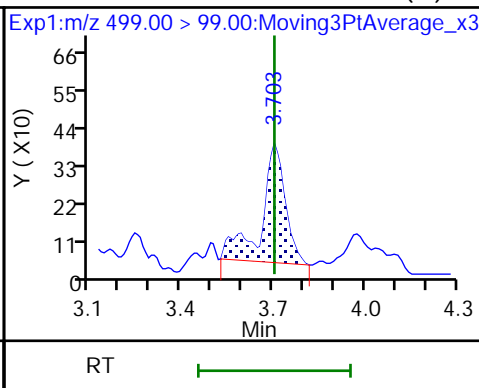
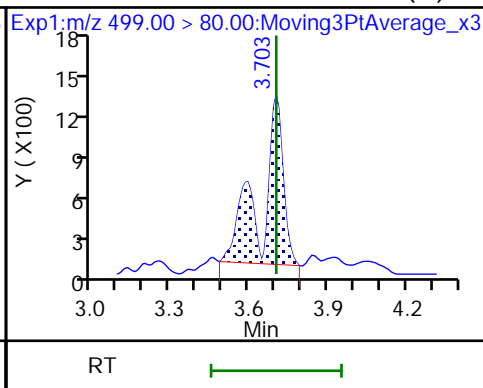
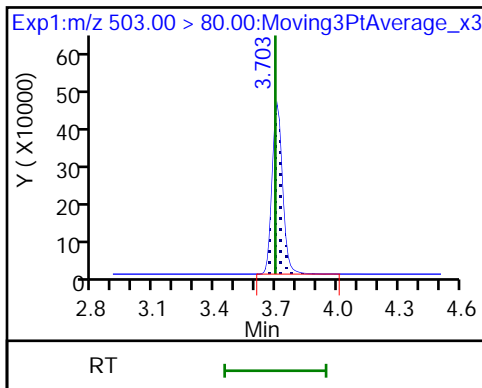




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

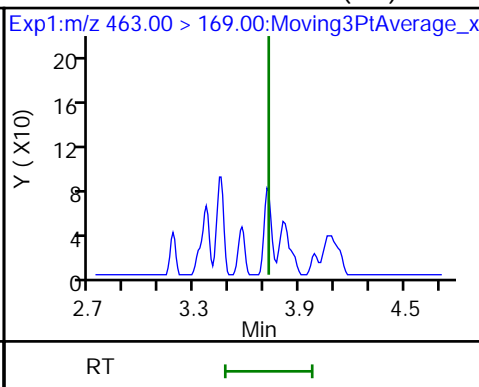
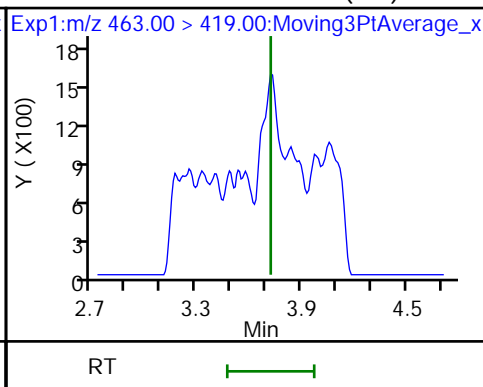
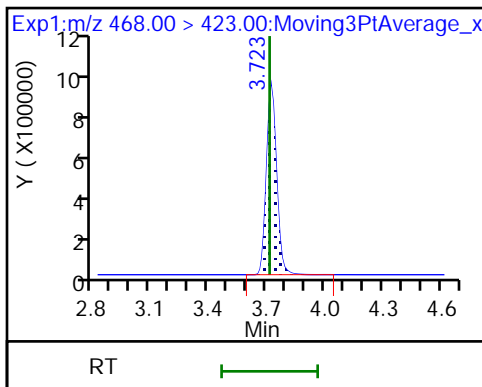
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (ND)

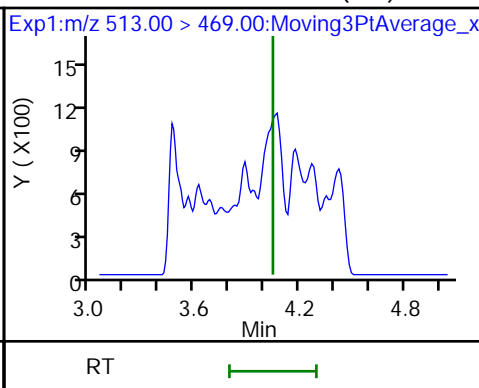
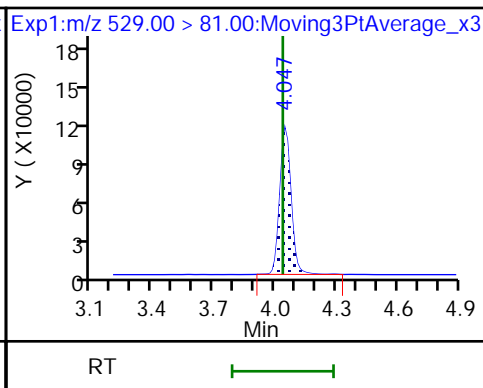
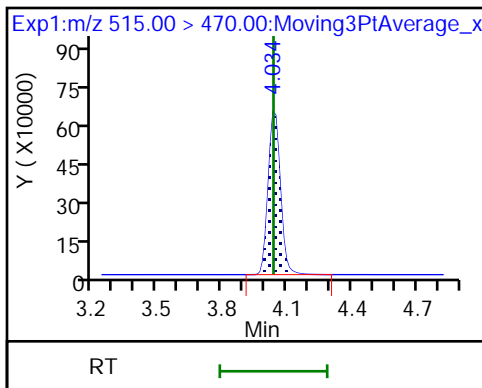
20 Perfluorononanoic acid (ND)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

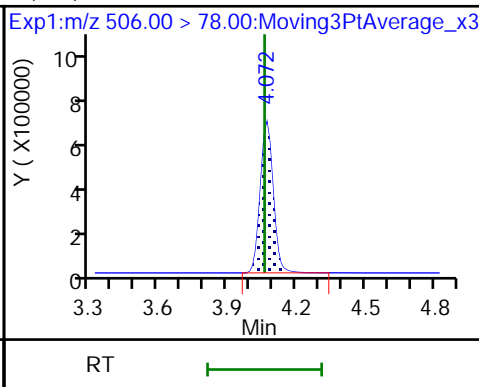
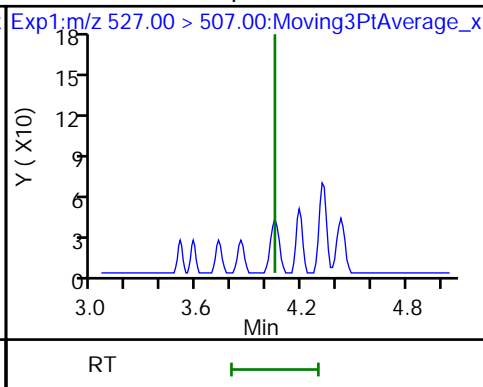
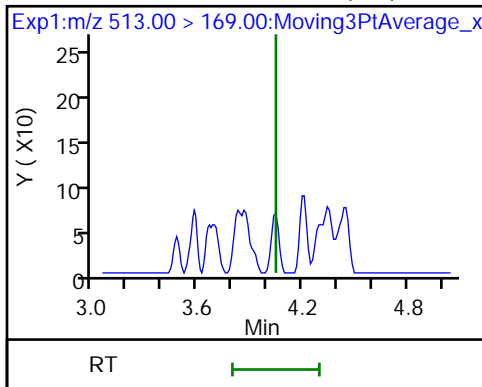
24 Perfluorodecanoic acid (ND)



24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonate (ND)

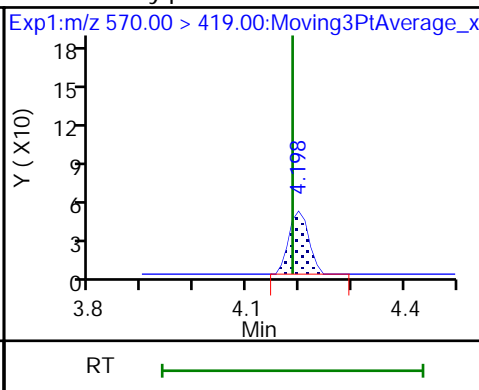
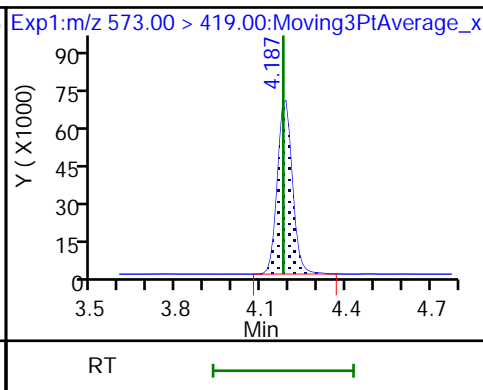
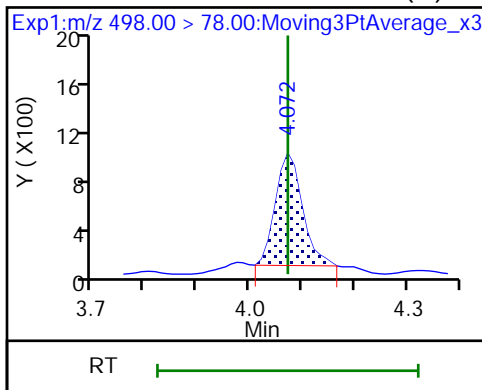
(ND) 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

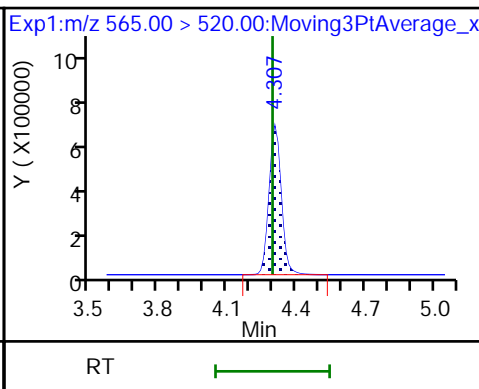
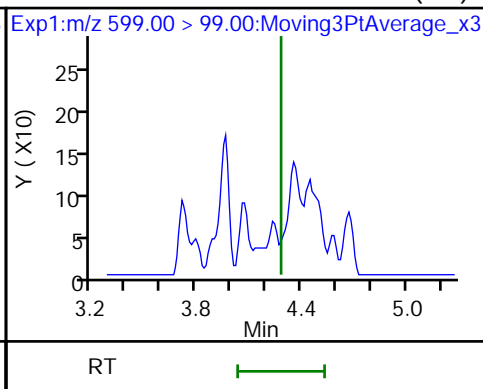
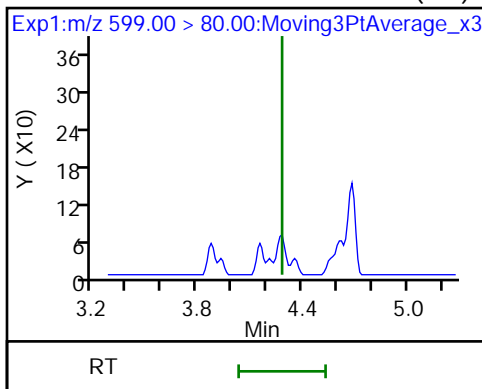
28 N-methylperfluorooctanesulfonamido (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

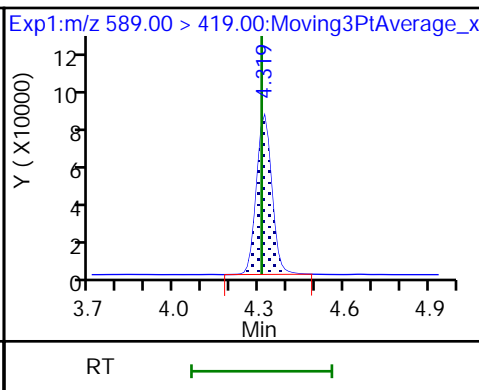
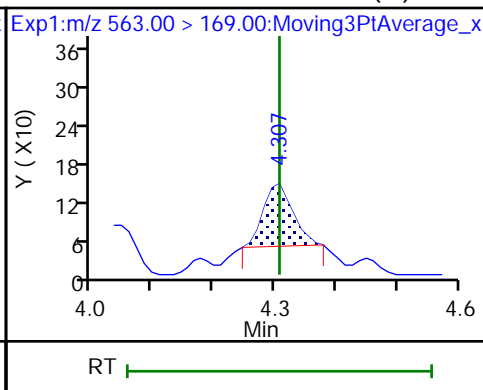
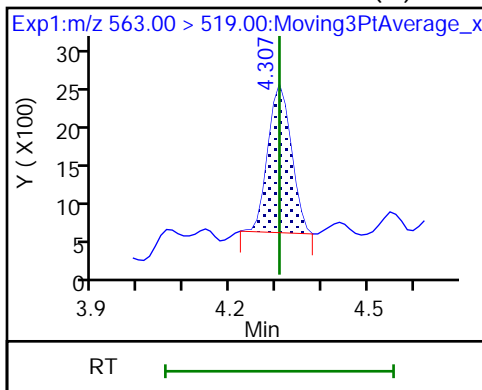
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

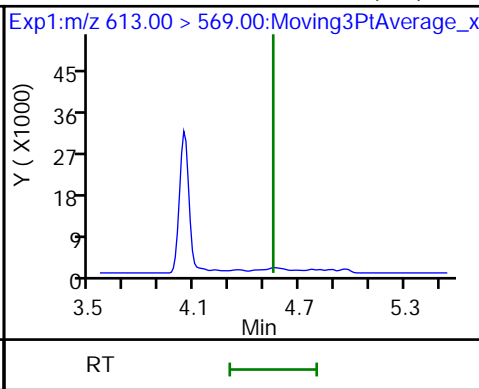
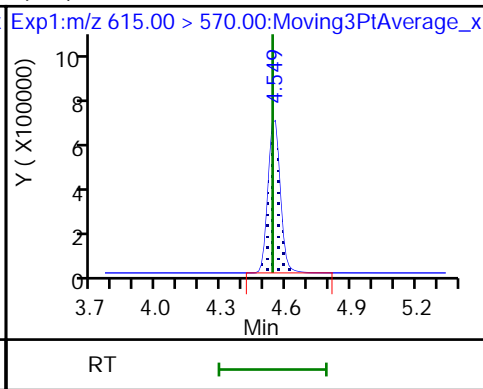
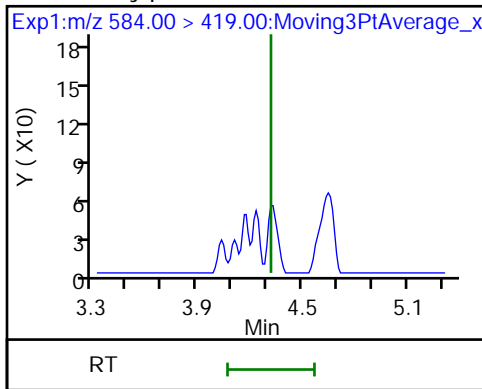
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (M)

D 36 13C2 PFDoA

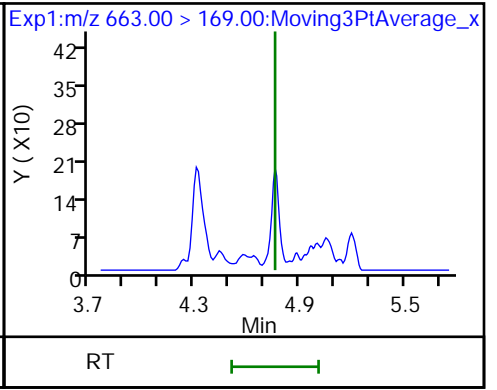
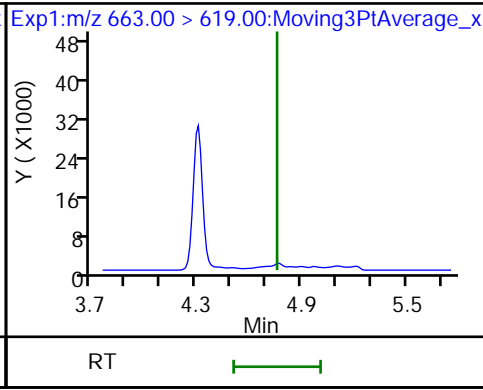
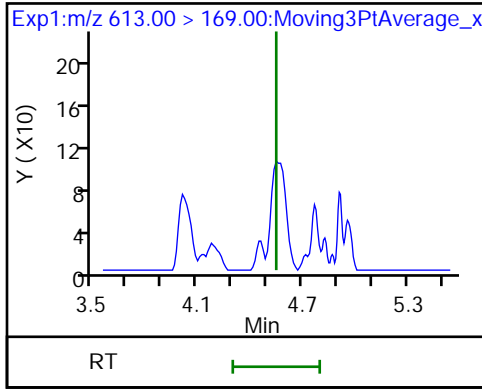
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

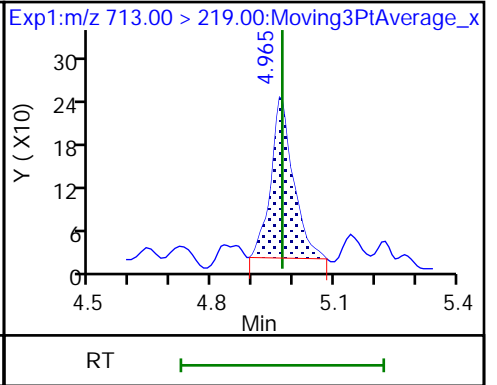
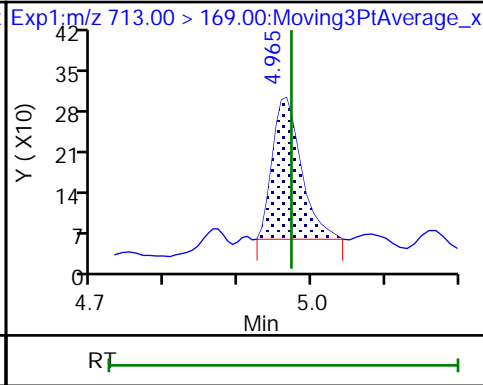
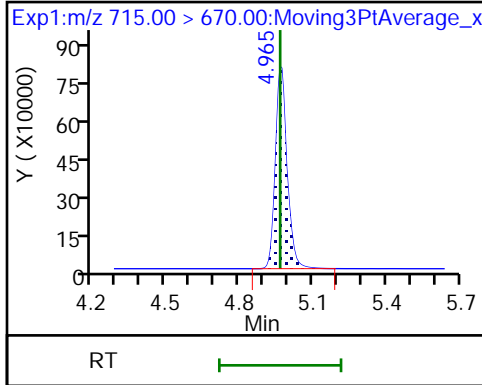
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)



Euofins TestAmerica, Burlington

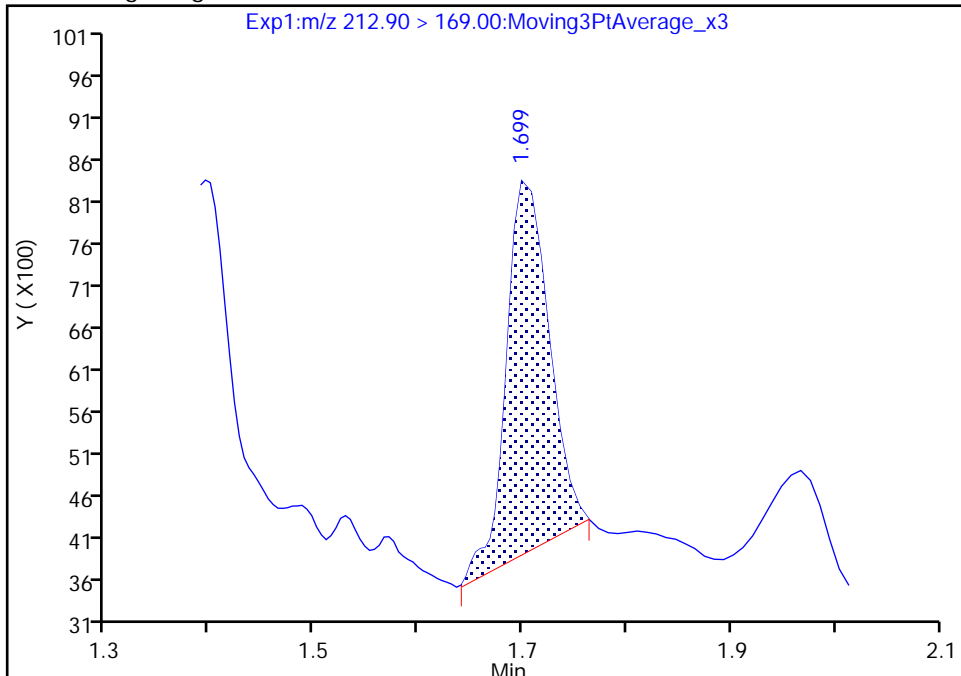
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

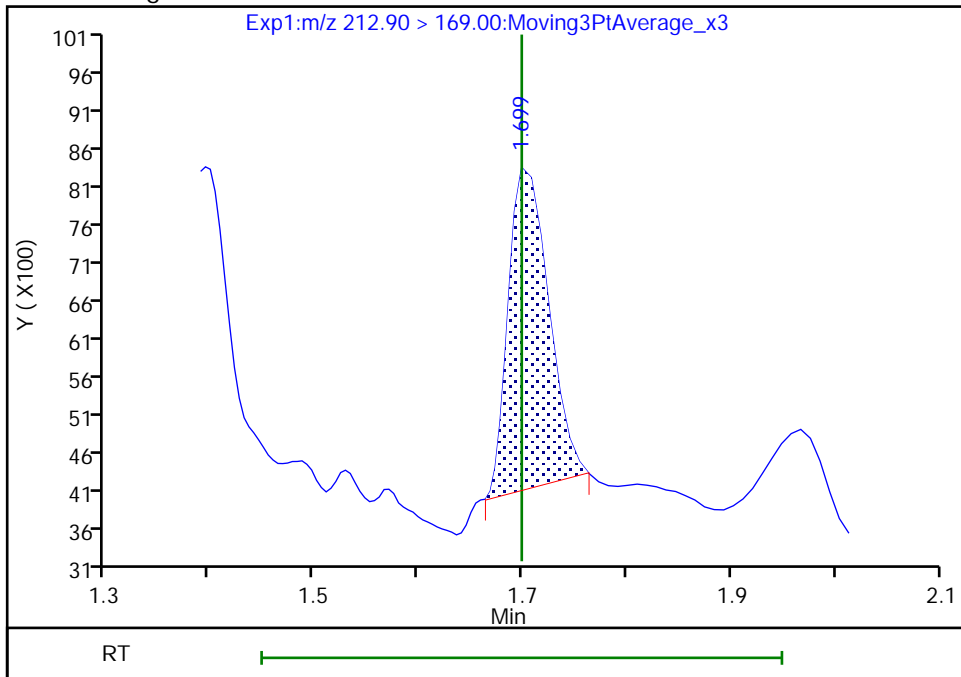
RT: 1.70  
Area: 12611  
Amount: 0.171980  
Amount Units: ng/ml

Processing Integration Results



RT: 1.70  
Area: 11347  
Amount: 0.154743  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:40:39  
Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Burlington

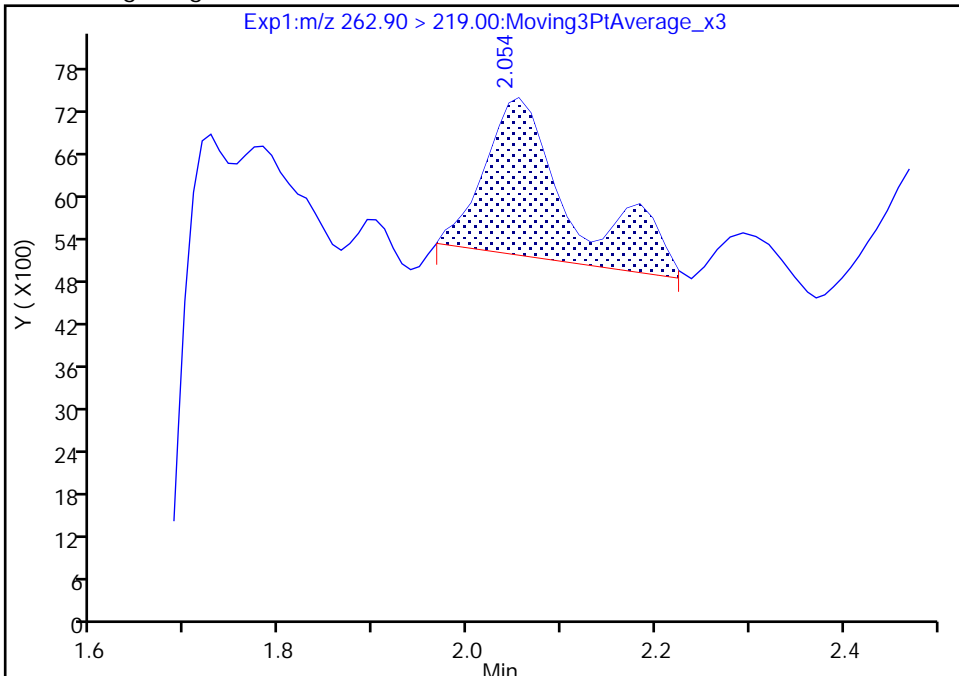
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

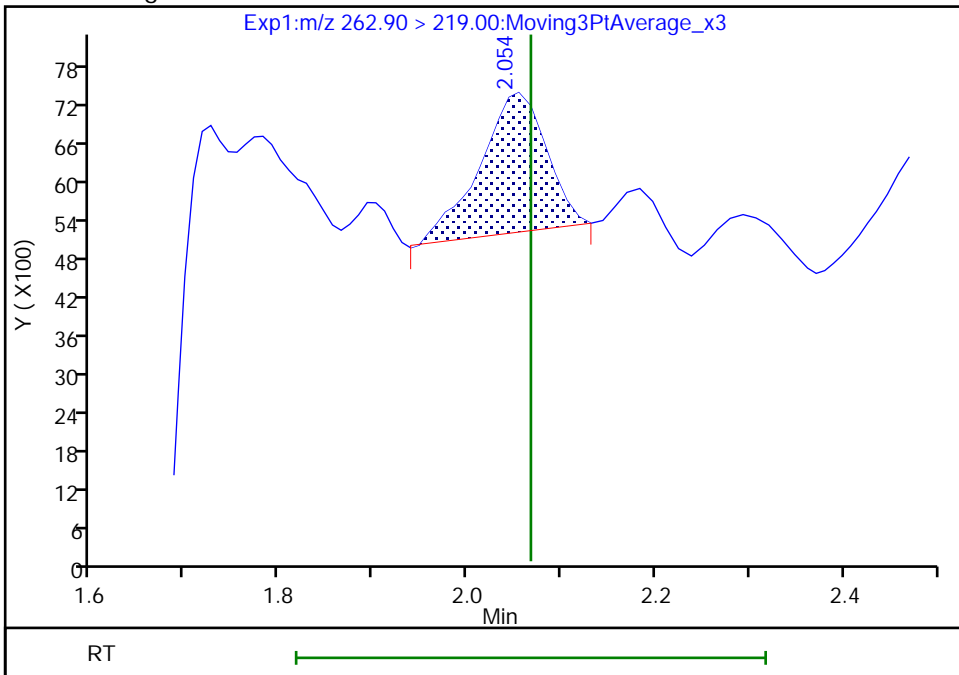
RT: 2.05  
Area: 14244  
Amount: 0.206303  
Amount Units: ng/ml

Processing Integration Results



RT: 2.05  
Area: 10695  
Amount: 0.154901  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:40:47  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

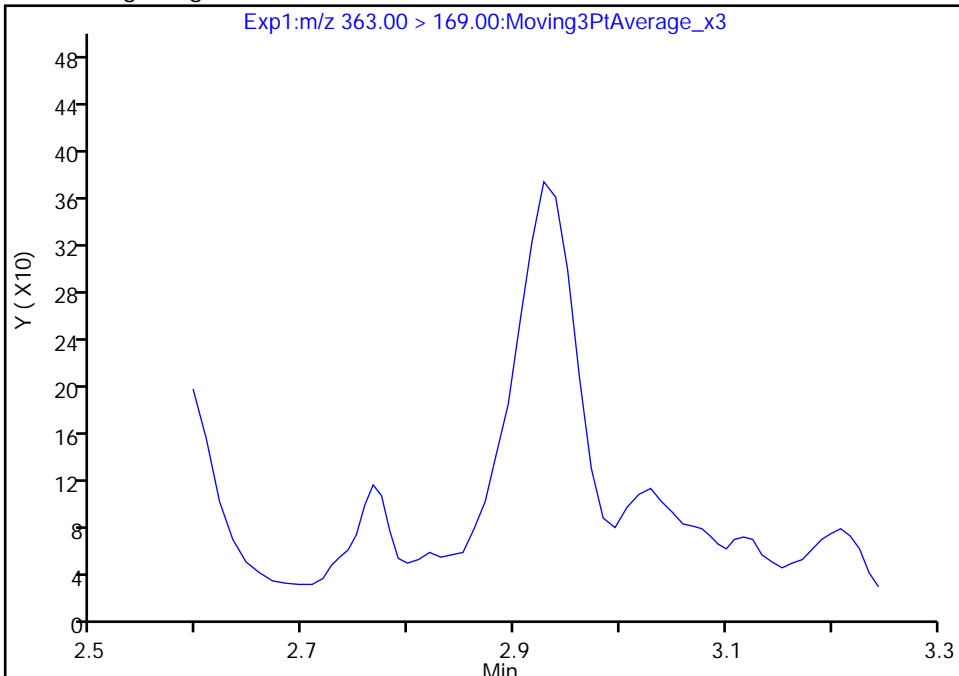
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

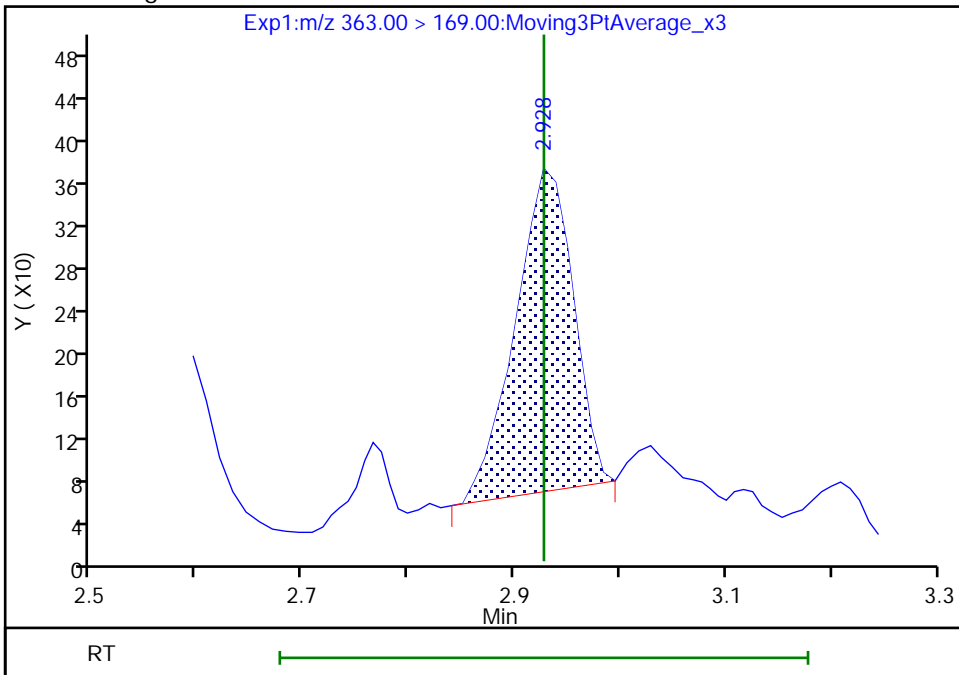
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 1146  
Amount: 0.039469  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:42:25  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

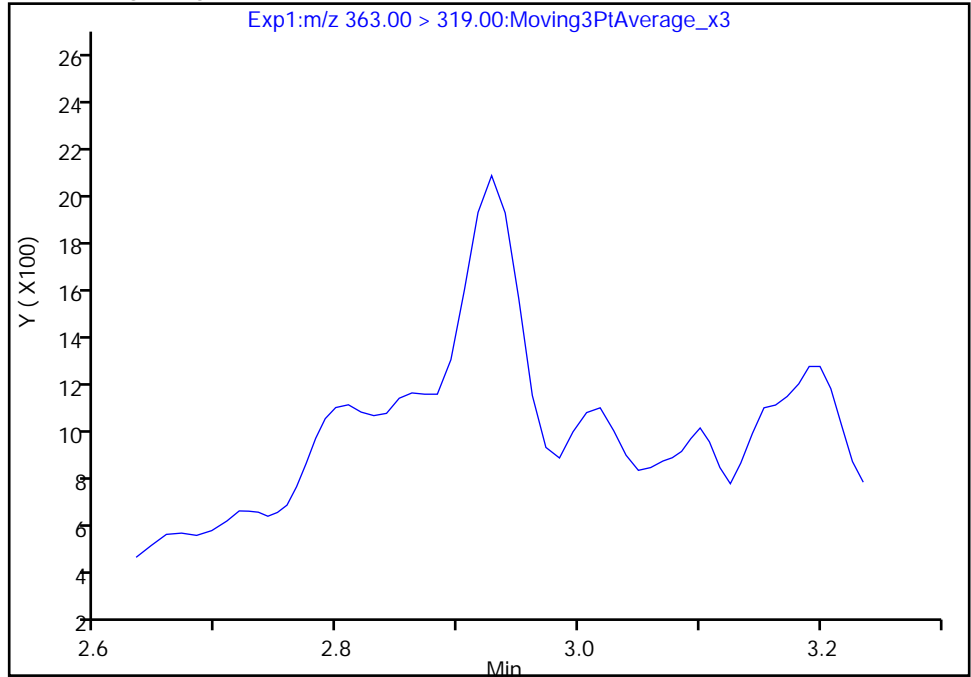
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

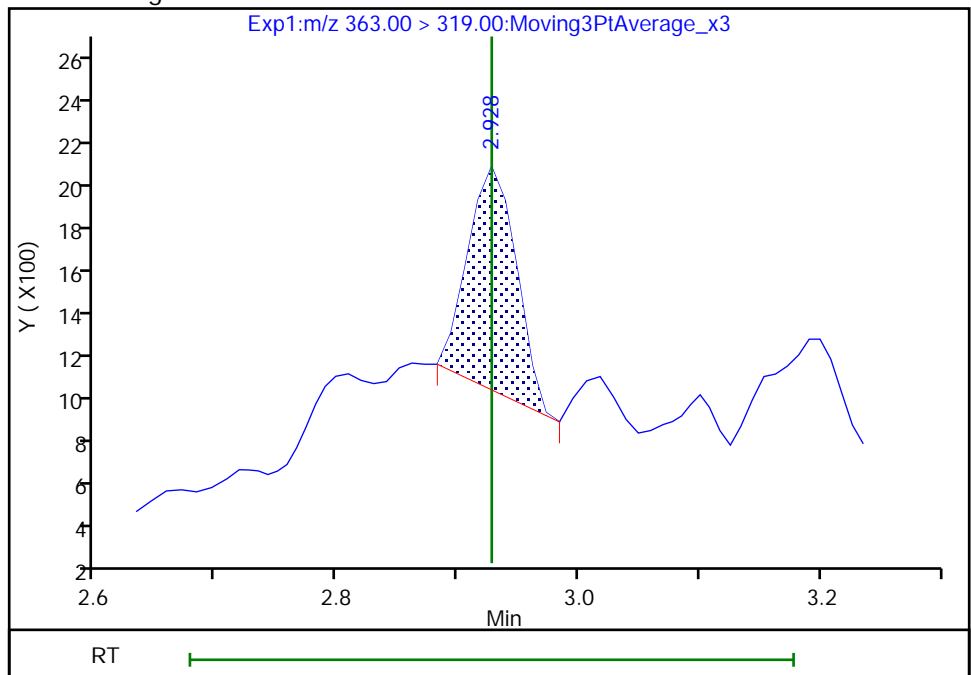
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 2720  
Amount: 0.039469  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:42:28

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

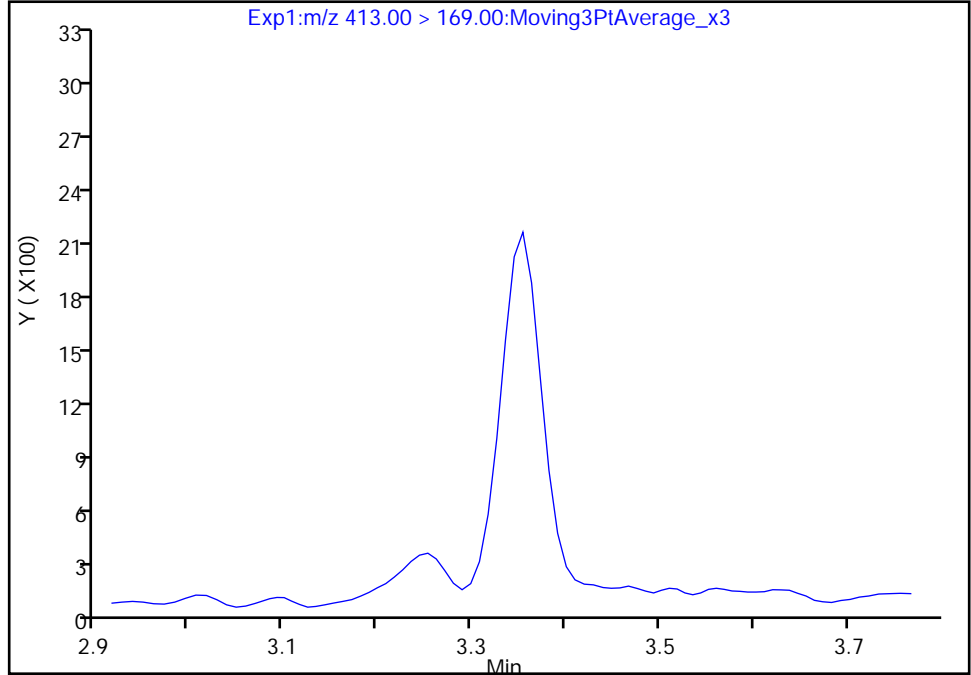
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

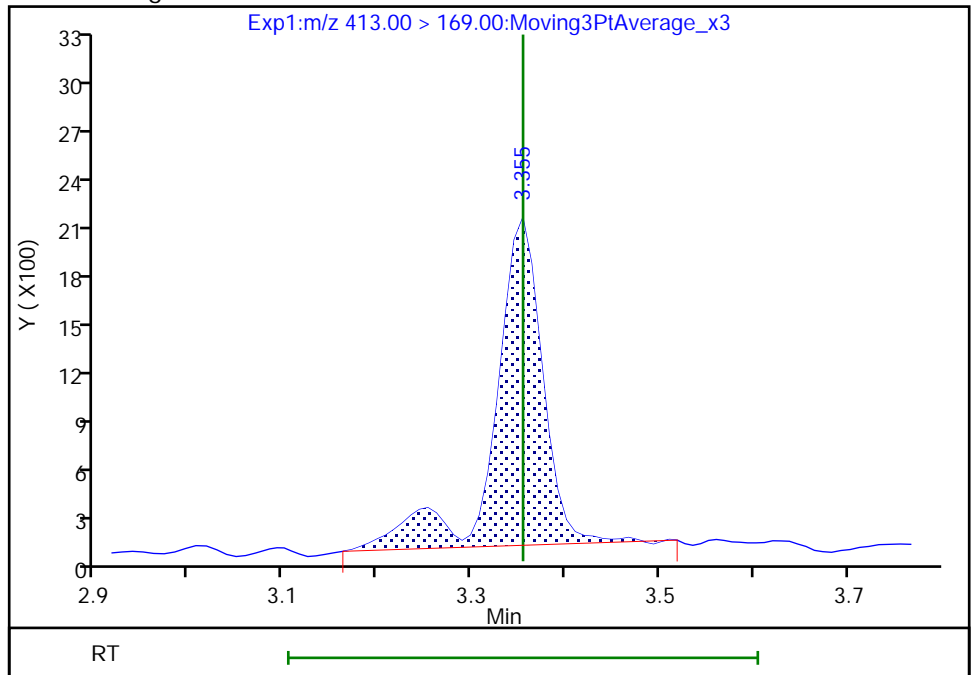
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35  
Area: 7173  
Amount: 0.326061  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:42:55  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

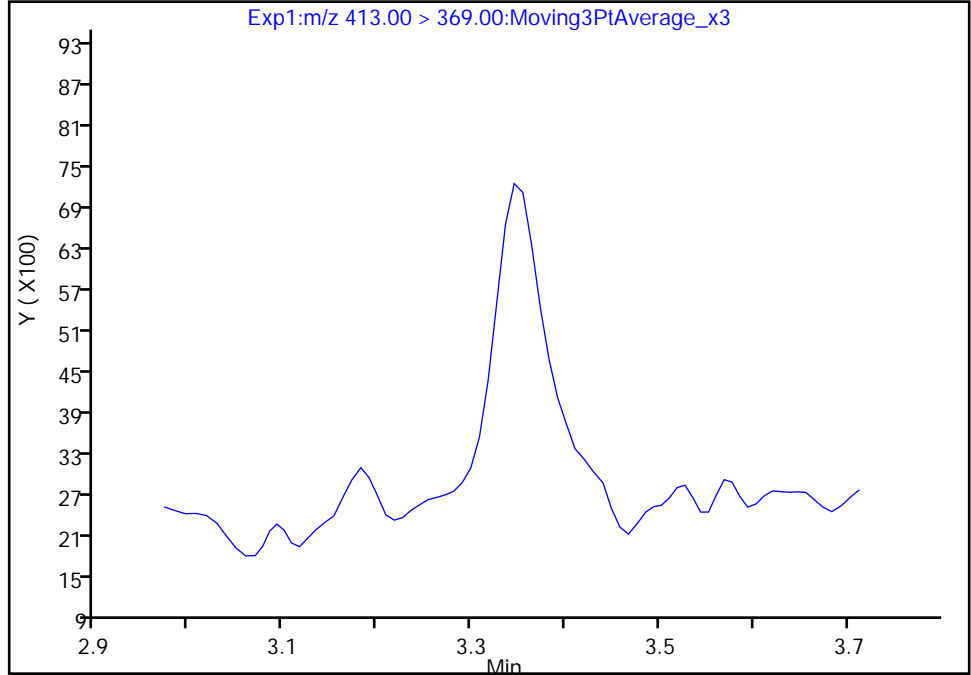
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

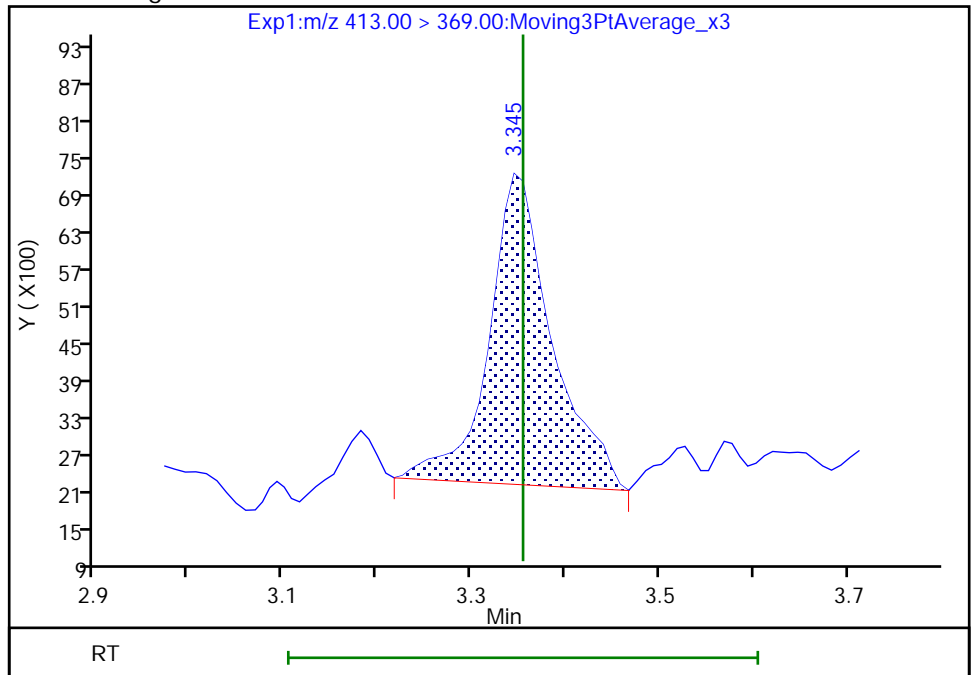
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35  
Area: 23622  
Amount: 0.326061  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:43:15

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

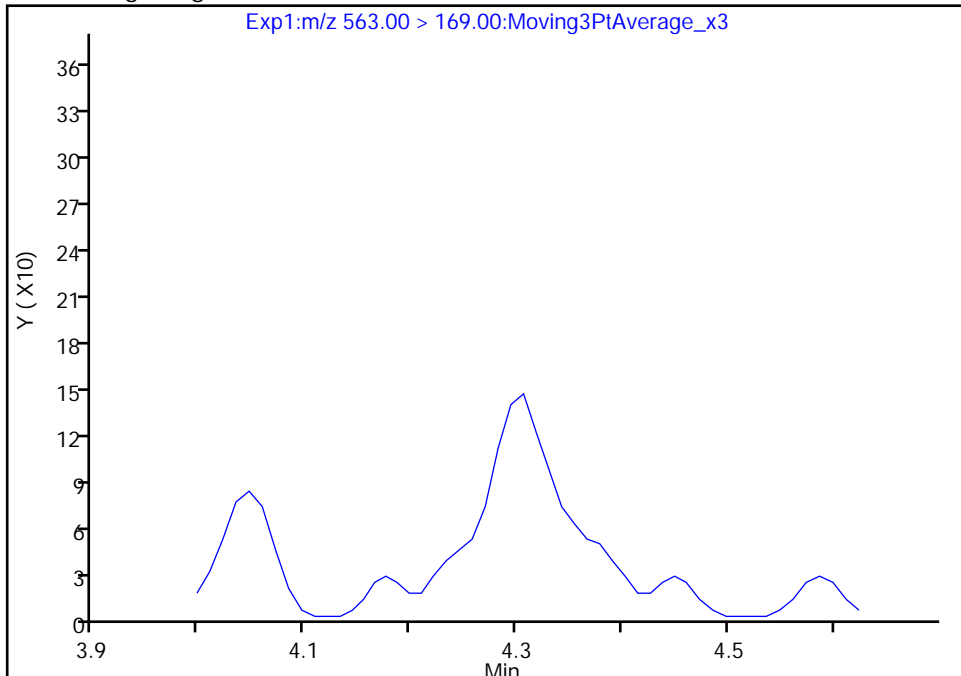
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

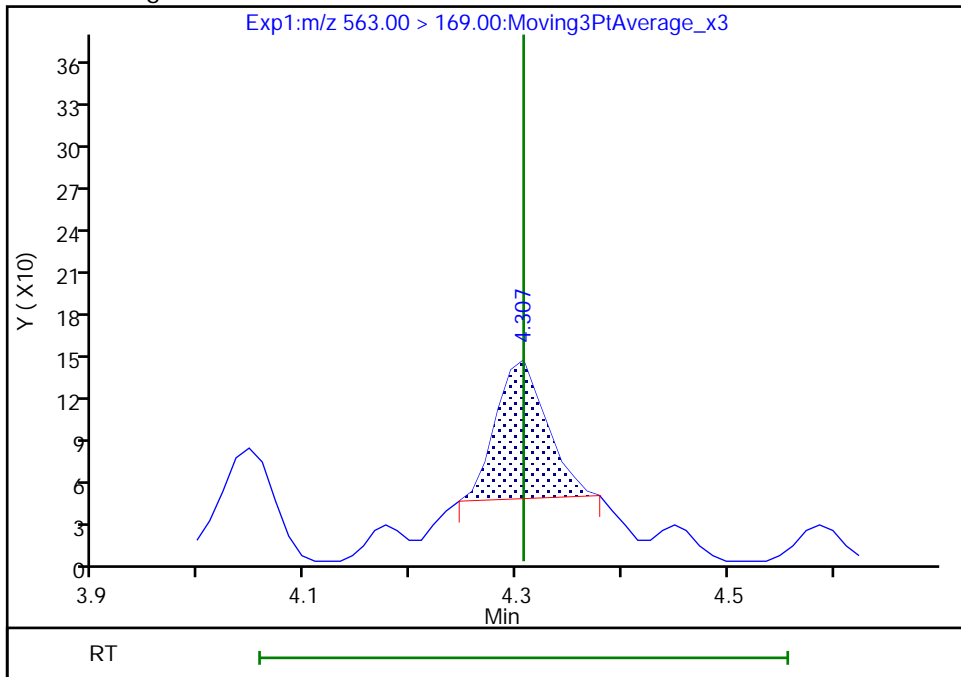
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 329  
Amount: 0.159625  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:44:54  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

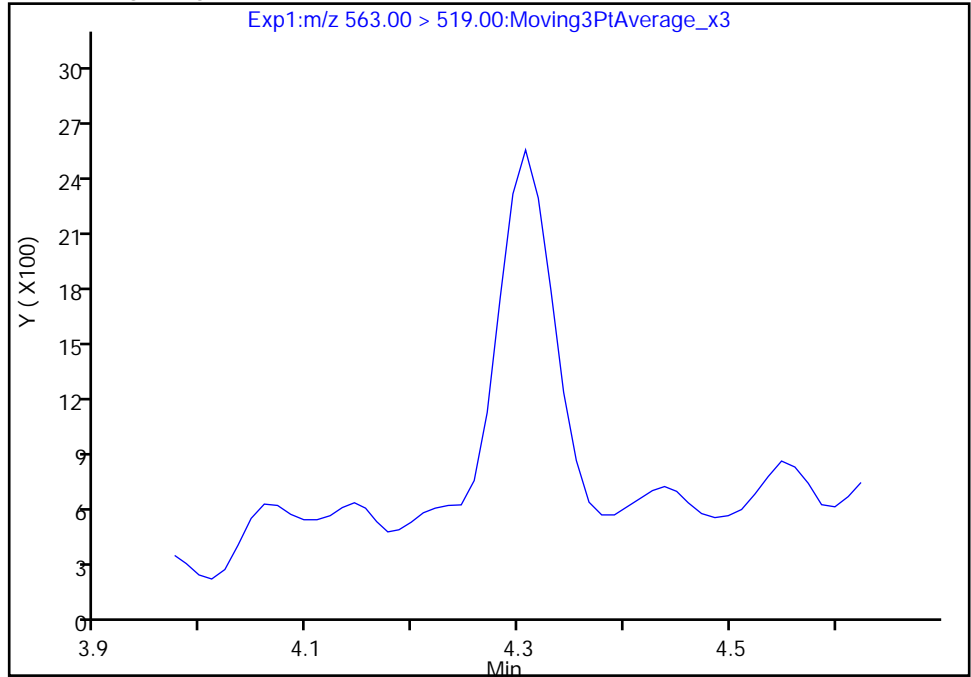
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

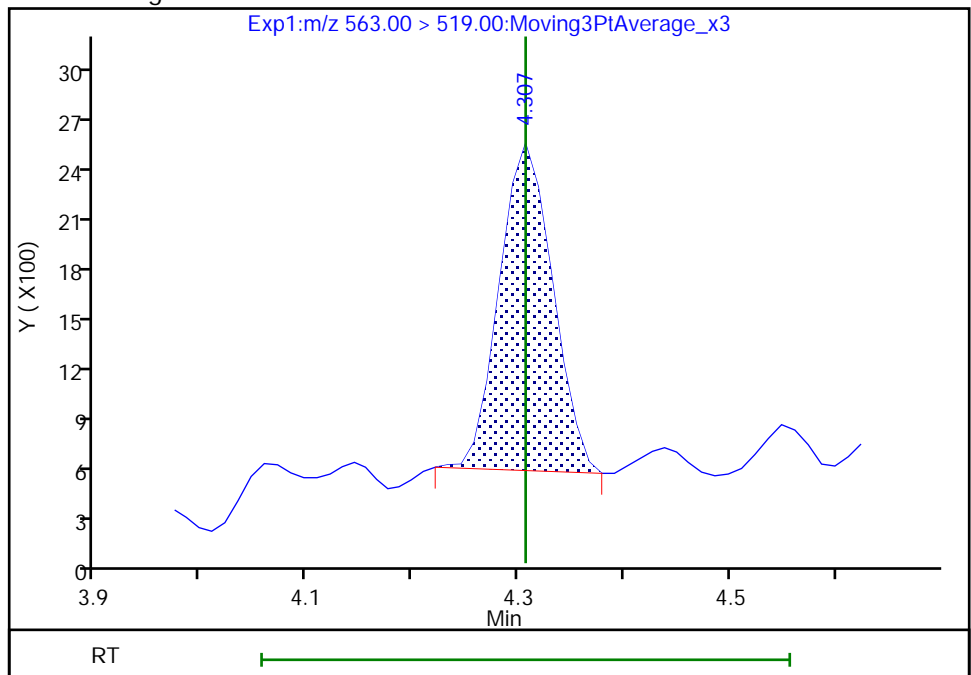
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 6556  
Amount: 0.159625  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:44:54

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

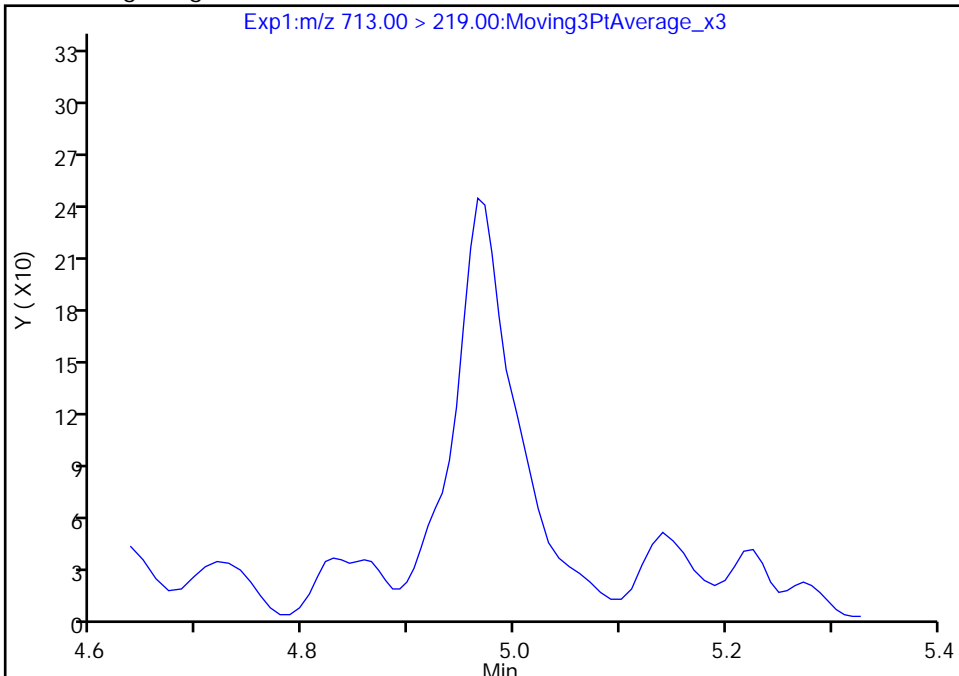
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

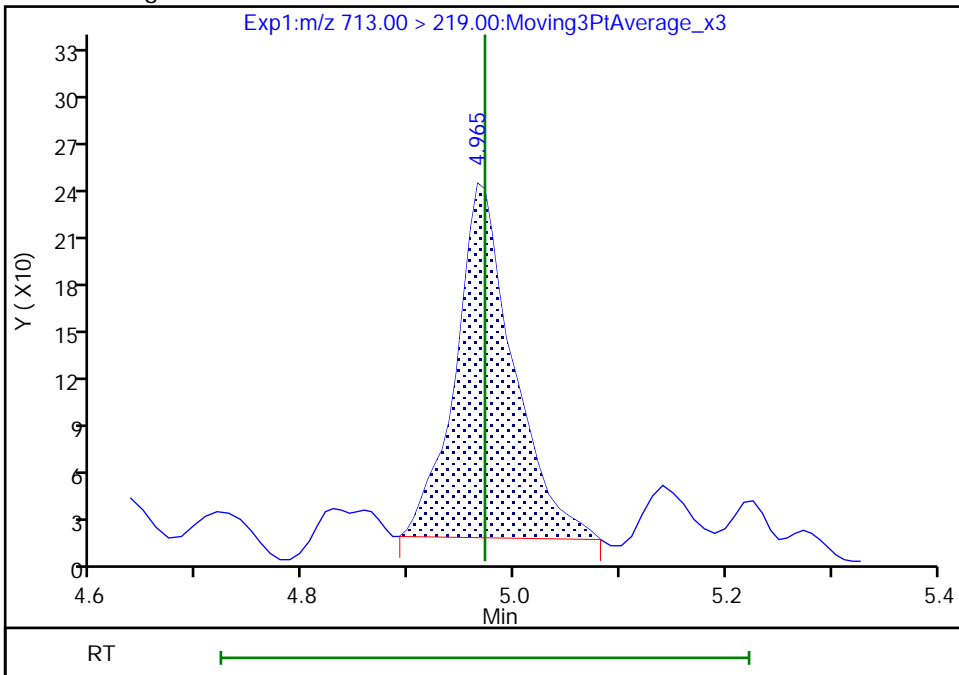
Not Detected  
Expected RT: 4.97

Processing Integration Results



RT: 4.97  
Area: 865  
Amount: 0.094651  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:45:42  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

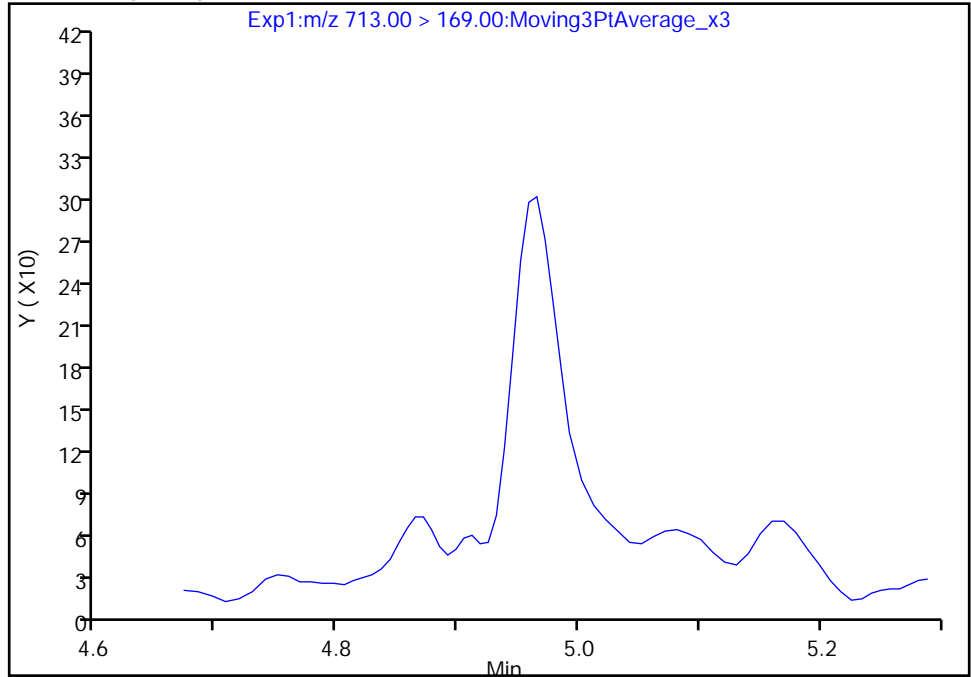
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

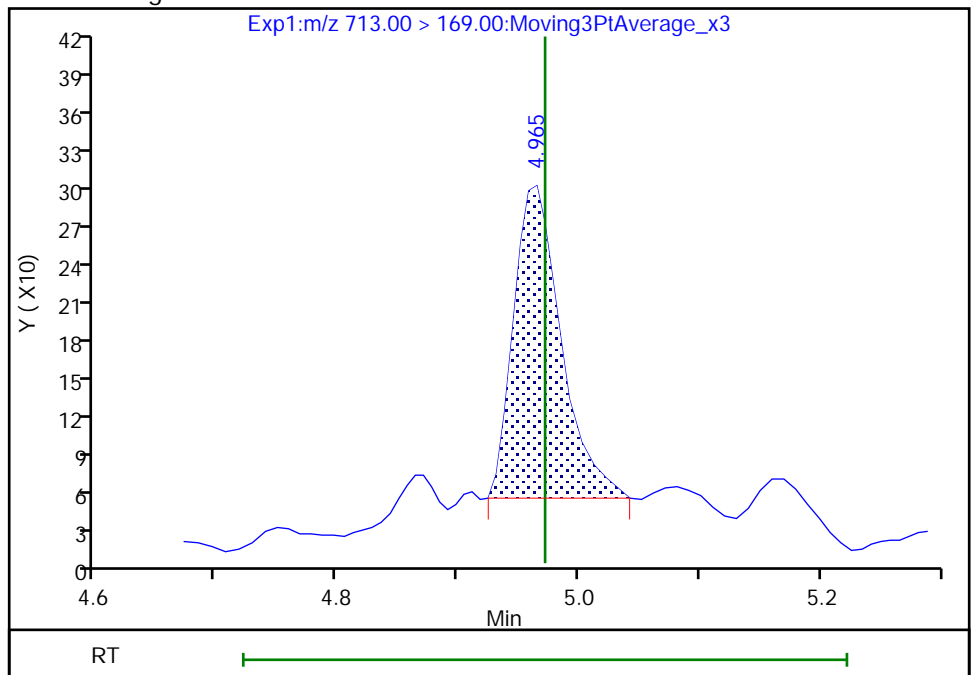
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 665  
Amount: 0.094651  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:45:42

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

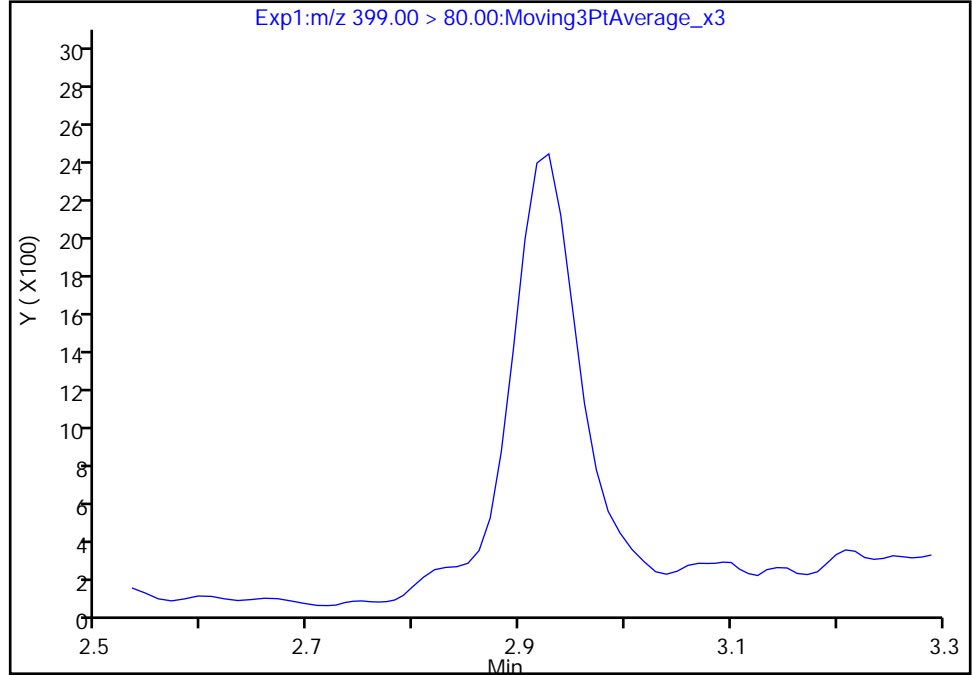
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

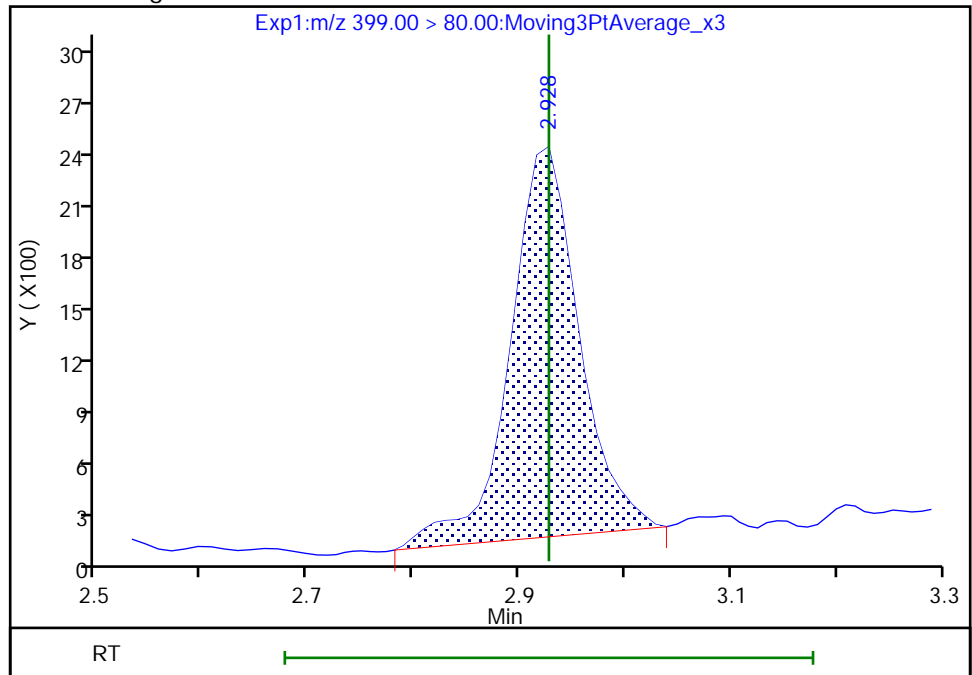
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 10440  
Amount: 0.196677  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:42:05  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

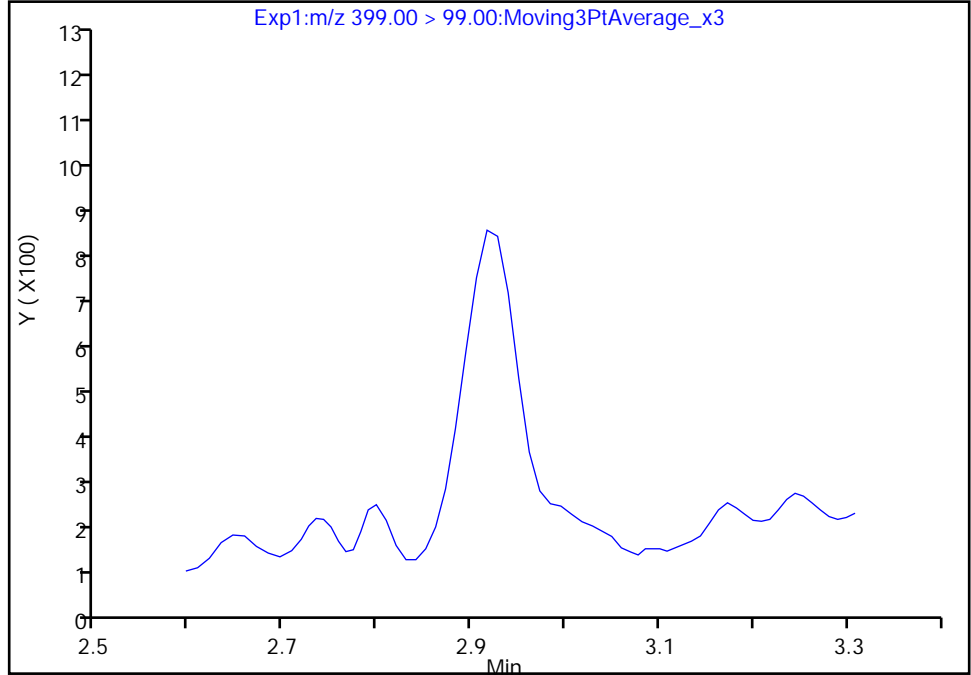
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Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

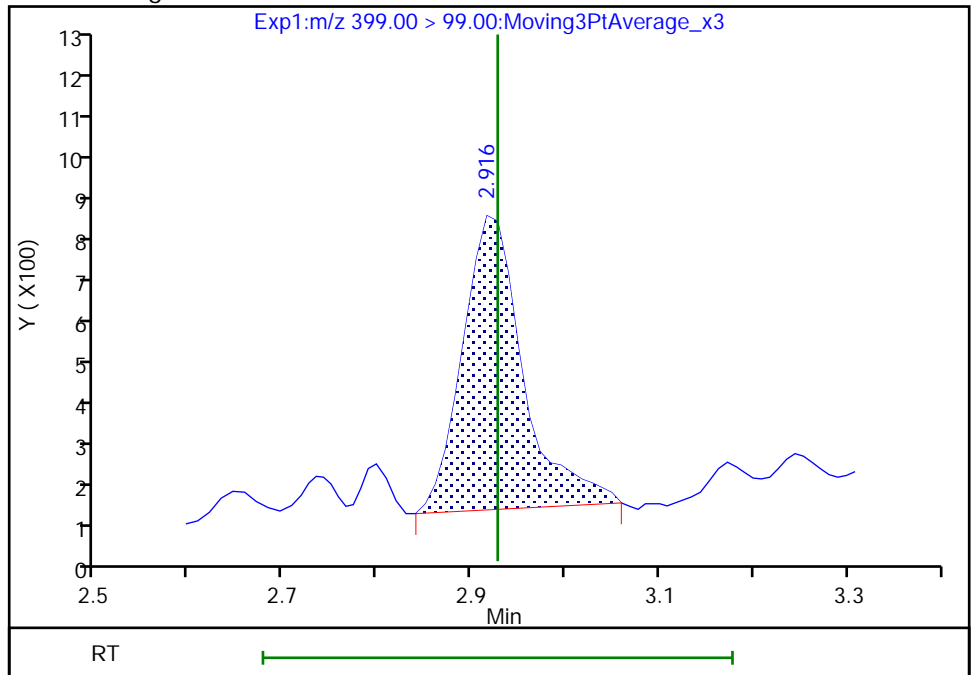
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.92  
Area: 3078  
Amount: 0.196677  
Amount Units: ng/ml



Reviewer: murrayjw, 12-Aug-2019 09:01:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

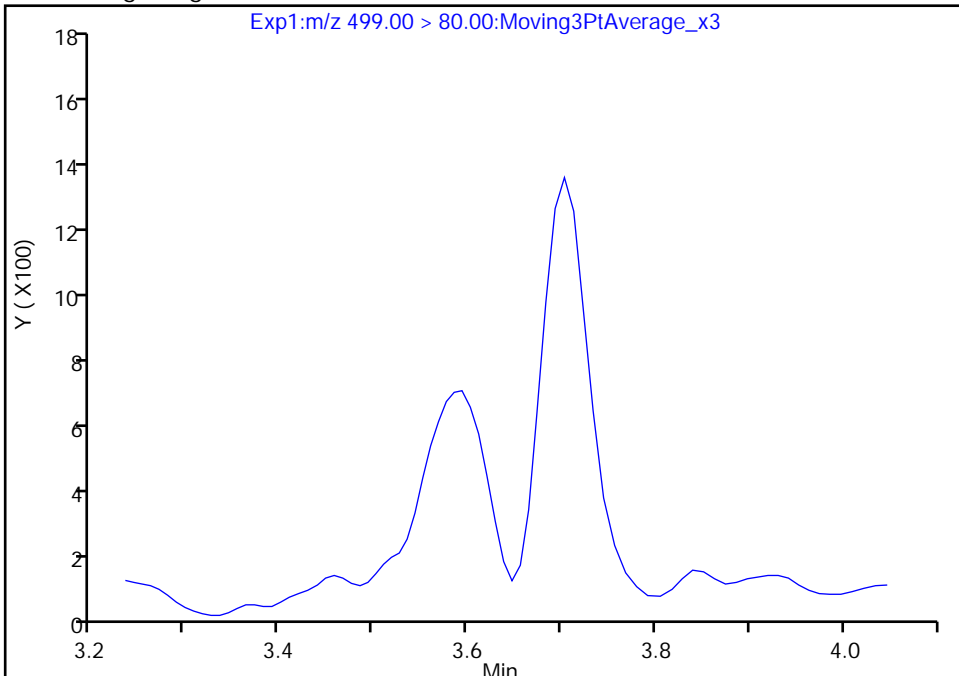
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

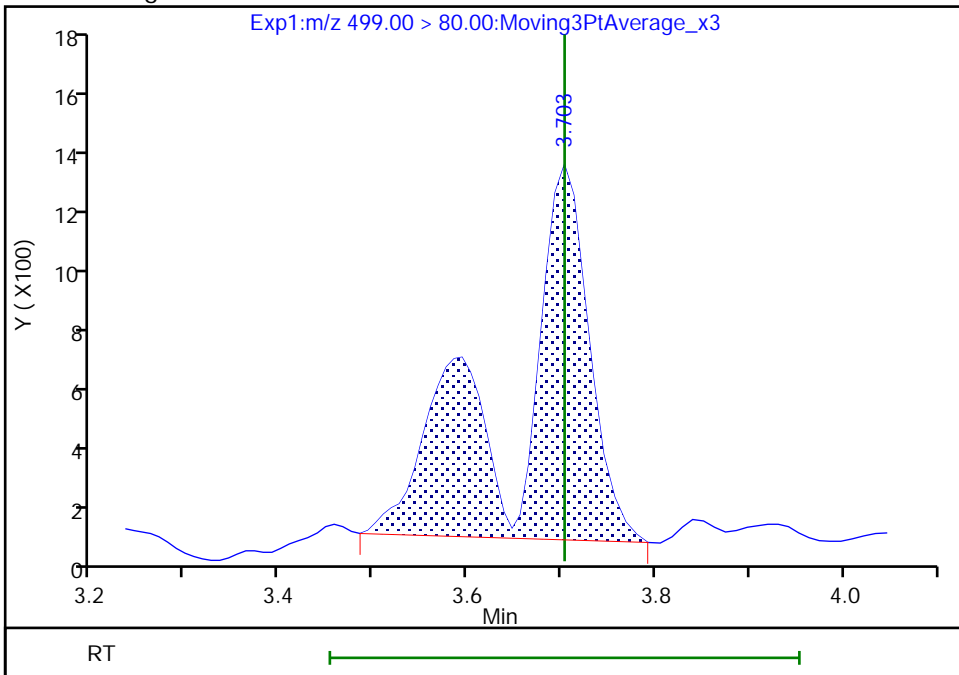
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.70  
Area: 7154  
Amount: 0.225812  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:44:13  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

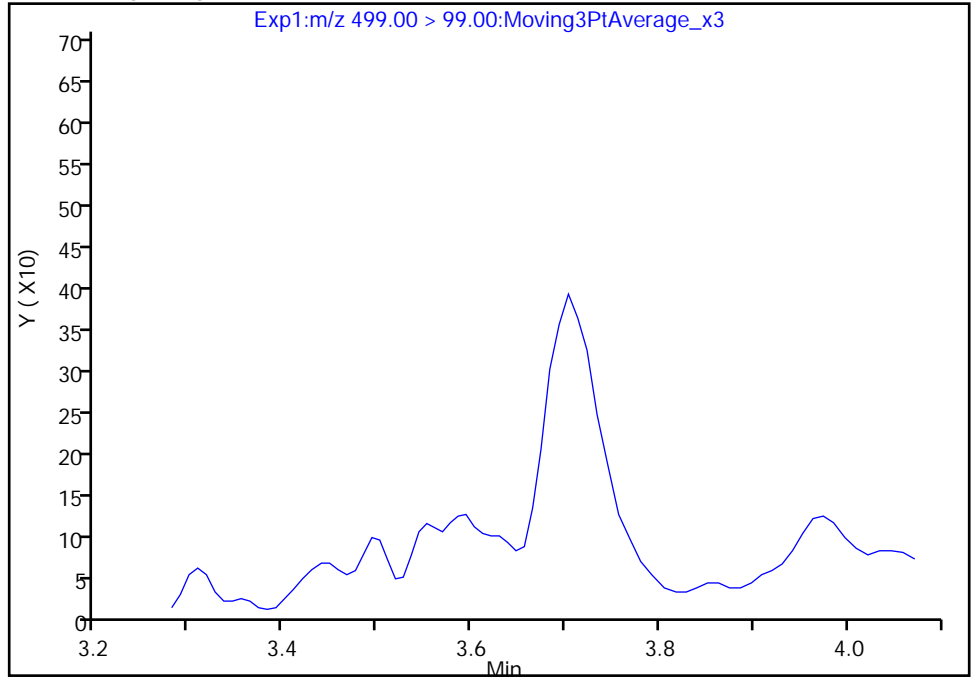
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Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

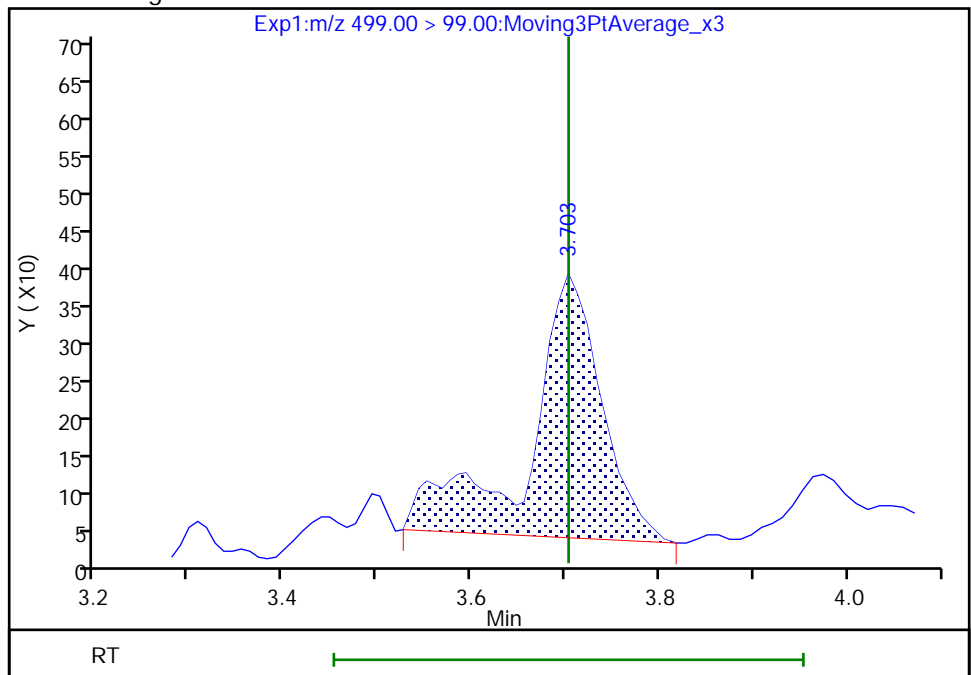
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.70  
Area: 1897  
Amount: 0.225812  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

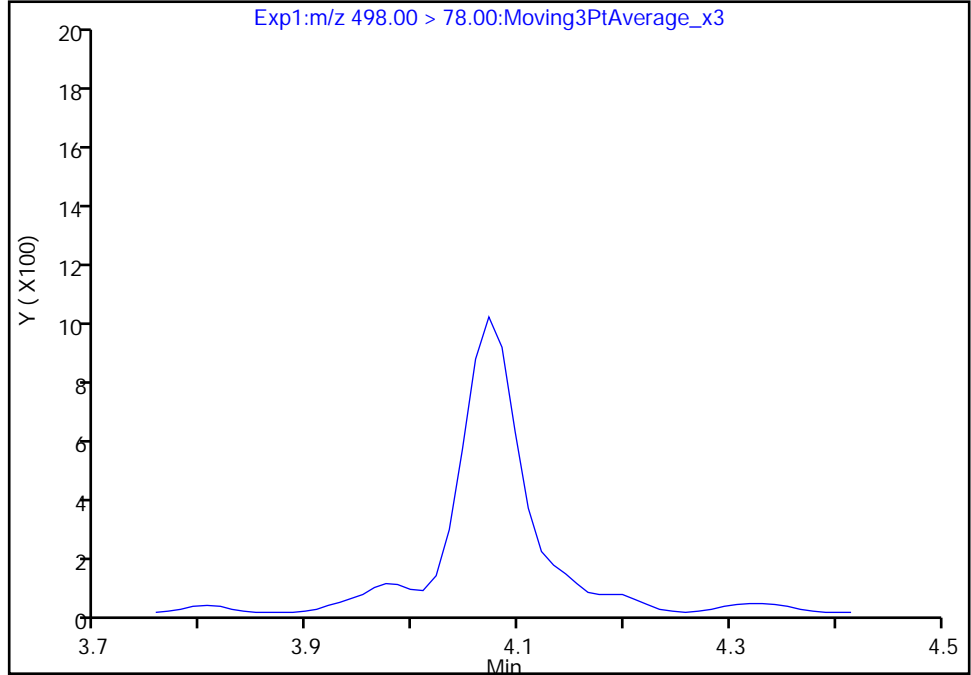
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Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

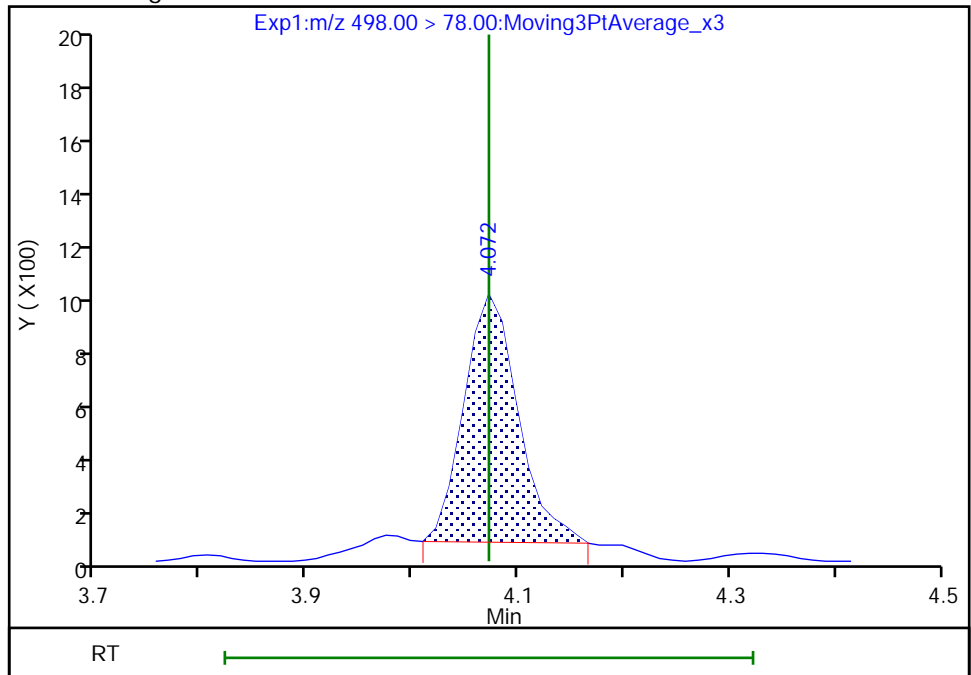
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.07  
Area: 3207  
Amount: 0.065653  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:44:32  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

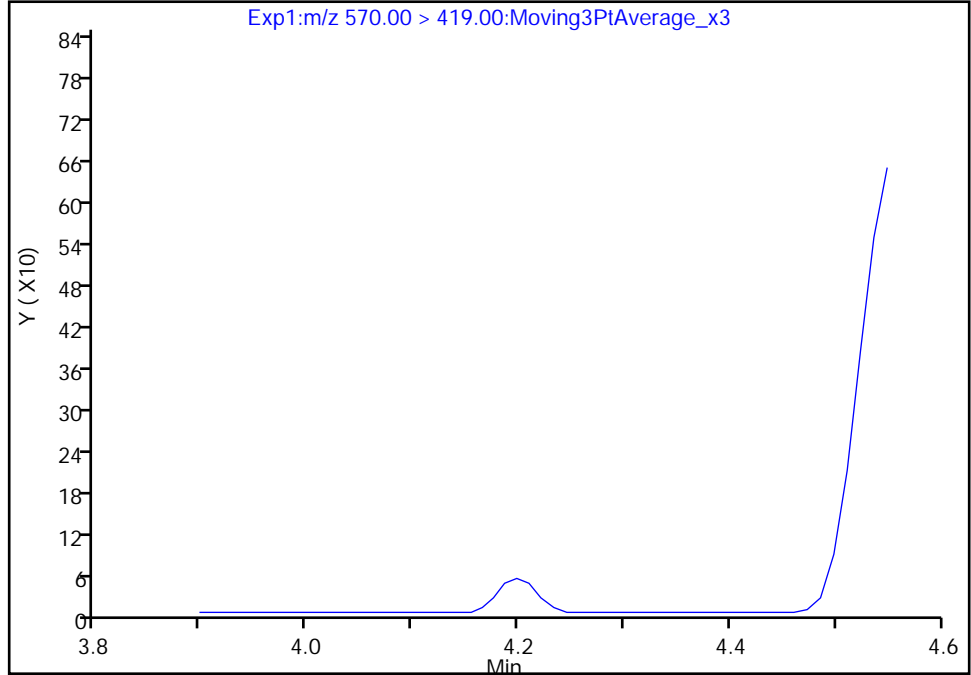
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E006.d  
Injection Date: 02-Aug-2019 04:29:27 Instrument ID: LC812  
Lims ID: 480-156213-F-3-A Lab Sample ID: 200-156213-3  
Client ID: 356023-MW16  
Operator ID: lc812tech ALS Bottle#: 53 Worklist Smp#: 6  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

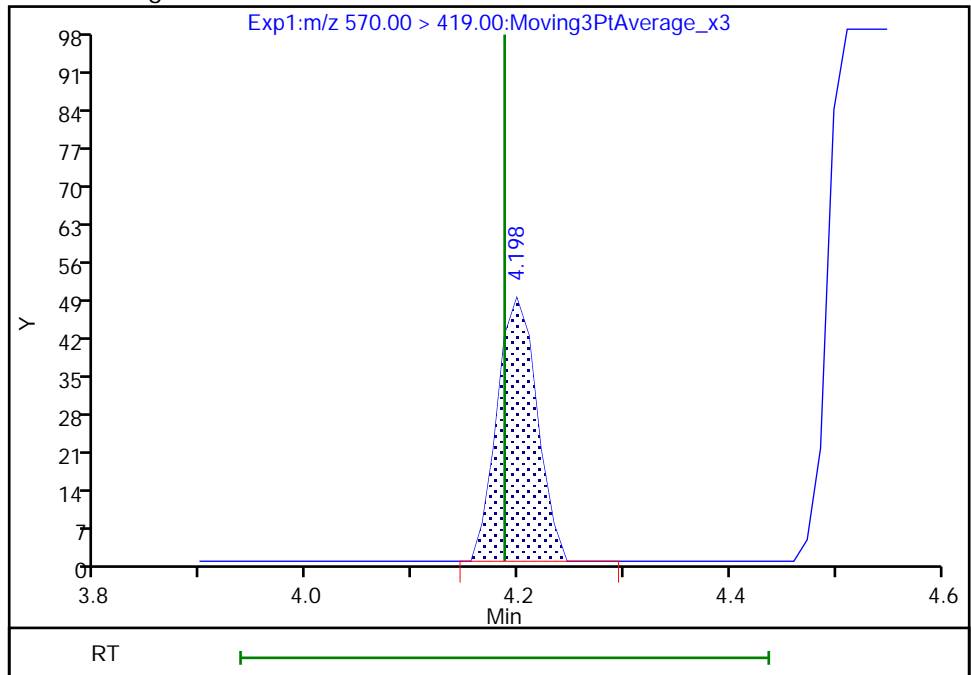
Not Detected  
Expected RT: 4.19

Processing Integration Results



Manual Integration Results

RT: 4.20  
Area: 128  
Amount: 0.033106  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:44:38  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW14B 150 Lab Sample ID: 480-156213-4  
 Matrix: Water Lab File ID: SC080119E007.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 11:50  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 310.3 (mL) Date Analyzed: 08/02/2019 04:37  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	3.0		1.6	0.81
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.9		1.6	0.51
307-24-4	Perfluorohexanoic acid (PFHxA)	3.1		1.6	0.61
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.1	J	1.6	0.73
335-67-1	Perfluorooctanoic acid (PFOA)	4.4		1.6	0.51
375-95-1	Perfluorononanoic acid (PFNA)	0.92	J	1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.62
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.74
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.8		1.6	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.6	0.64
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.77
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.73
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.5		1.6	0.49
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.1	8.1
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.7
39108-34-4	8:2 FTS	ND		16	2.3



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW14B 150 Lab Sample ID: 480-156213-4  
 Matrix: Water Lab File ID: SC080119E007.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 11:50  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 310.3(mL) Date Analyzed: 08/02/2019 04:37  
 Con. Extract Vol.: 0.5(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: C-18 ID: 4.6(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	75		25-150
STL00992	13C4 PFBA	78		25-150
STL01893	13C5 PFPeA	86		25-150
STL00993	13C2 PFHxA	91		50-150
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	83		50-150
STL00995	13C5 PFNA	83		50-150
STL00996	13C2 PFDA	84		50-150
STL00997	13C2 PFUnA	84		50-150
STL00998	13C2 PFDoA	77		50-150
STL02116	13C2 PFTeDA	68		50-150
STL02337	13C3 PFBS	88		50-150
STL00994	18O2 PFHxS	92		50-150
STL00991	13C4 PFOS	83		50-150
STL02118	d3-NMeFOSAA	63		50-150
STL02117	d5-NEtFOSAA	64		50-150
STL02279	M2-6:2 FTS	101		25-150
STL02280	M2-8:2 FTS	104		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
 Lims ID: 480-156213-F-4-A  
 Client ID: 356023-MW14B 150  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 04:37:28 ALS Bottle#: 54 Worklist Smp#: 7  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-4-A  
 Misc. Info.: 200-0037095-007 Plate: 1 Rack: 4  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 16:49:42  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.508	3043835	38.9	77.8	9892	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.000	104074	1.85		15.4	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	3163392	43.0	86.1	6551	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	112081	1.83		4.8	M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	2958348	41.0	88.1	391495	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	112881	1.75	Target=1.90	56.7	
	298.90 > 99.00	2.093	2.093	0.0	1.000	55878		2.02(0.95-2.85)	43.1	
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.731	3319567	45.5	90.9	6602	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.005	130305	1.91	Target=13.23	23.8	
	313.00 > 119.00	2.459	2.459	0.0	1.000	11197		11.64(6.61-19.84)	15.5	
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.870	1830809	43.3	91.5	4963	
D 9 13C4 PFHpA	367.00 > 322.00	2.928	2.928	0.0	0.870	3256722	45.5	91.1	5640	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.939	2.928	0.011	1.004	43681	0.8564	Target=3.37	32.6	M
	399.00 > 99.00	2.928	2.928	0.0	1.000	11192		3.90(1.69-5.06)	12.4	M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.939	2.928	0.011	1.004	42522	0.6970	Target=3.76	9.4	
	363.00 > 169.00	2.939	2.928	0.011	1.004	11658		3.65(1.88-5.65)	39.9	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.345	3.335	0.010	0.995	421924	47.9		101	749	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.345	3.336	0.009	1.000	13579	0.8914			32.0	
D 14 13C4 PFOA										
417.00 > 372.00	3.364	3.344	0.020	1.000	3133092	41.5		83.0	8950	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.364	3.355	0.009	1.000	186198	2.73	Target=2.84		18.8	M
413.00 > 169.00	3.364	3.355	0.009	1.000	79018		2.36(1.42-4.25)		189	M
* 62 13C2 PFOA										
415.00 > 370.00	3.364	3.355	0.009		4152473	50.0			14776	
D 18 13C4 PFOS										
503.00 > 80.00	3.713	3.695	0.018	1.104	1401567	39.8		83.2	4363	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.594	3.703	-0.109	0.968	43607	1.57	Target=4.33		100	RM
499.00 > 99.00	3.713	3.703	0.010	1.000	6446		6.76(2.16-6.49)		8.9	M
D 19 13C5 PFNA										
468.00 > 423.00	3.734	3.715	0.019	1.110	2846236	41.3		82.6	15394	
20 Perfluorononanoic acid										
463.00 > 419.00	3.734	3.723	0.011	1.000	29495	0.5720	Target=8.15		9.9	
463.00 > 169.00	3.734	3.723	0.011	1.000	4408		6.69(4.08-12.23)		22.9	
D 23 13C2 PFDA										
515.00 > 470.00	4.047	4.036	0.011	1.203	2311995	41.9		83.9	7955	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.059	4.036	0.023	1.207	402662	49.6		104	943	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.047	4.047	0.0	0.997	68	0.006051			1.3	M
D 21 13C8 FOSA										
506.00 > 78.00	4.072	4.061	0.011	1.210	2379391	37.6		75.2	7286	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.084	4.072	0.012	1.003	3516	0.0809			22.4	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.178	0.009	1.245	222390	31.6		63.2	2224	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.284	2105136	41.9		83.9	9670	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.319	4.307	0.012	1.000	3445	0.0954	Target=7.95		1.7	R
563.00 > 169.00	4.307	4.307	0.0	0.997	1285		2.68(3.98-11.93)		16.5	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.308	0.011	1.284	249867	31.8		63.7	1030	
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.537	0.012	1.352	2075145	38.4		76.8	7858	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.478	2542871	34.2		68.3	9718	

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d

Injection Date: 02-Aug-2019 04:37:28

Instrument ID: LC812

Lims ID: 480-156213-F-4-A

Lab Sample ID: 200-156213-4

Client ID: 356023-MW14B 150

Operator ID: lc812tech

ALS Bottle#: 54

Worklist Smp#: 7

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

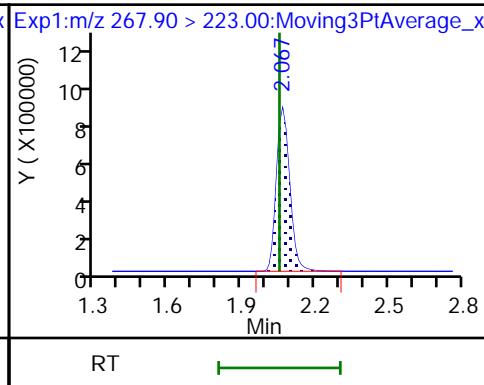
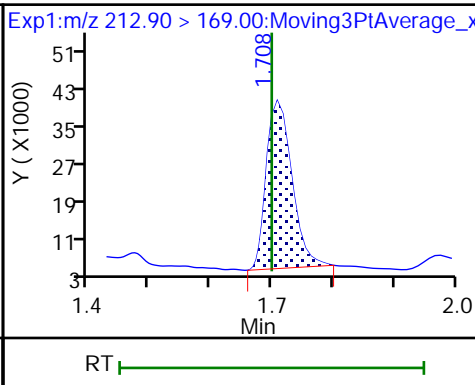
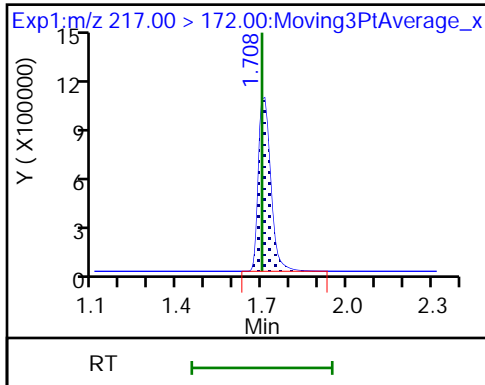
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

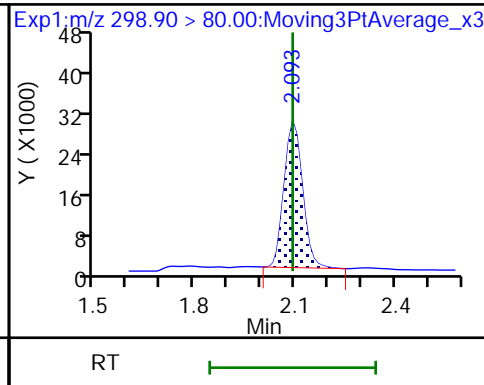
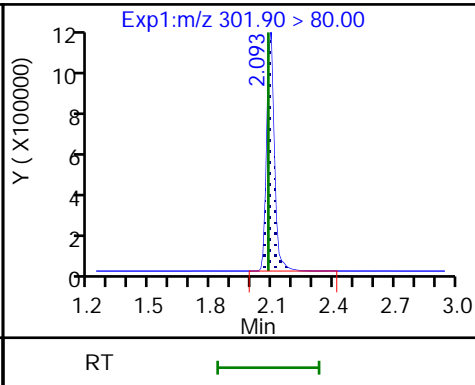
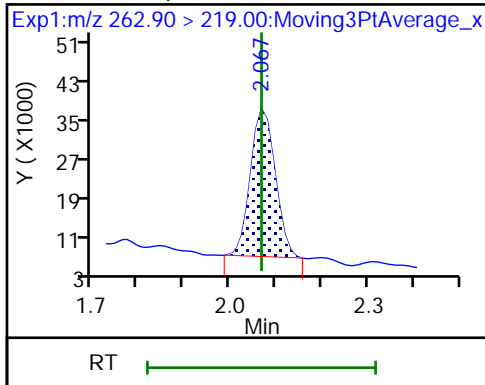
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

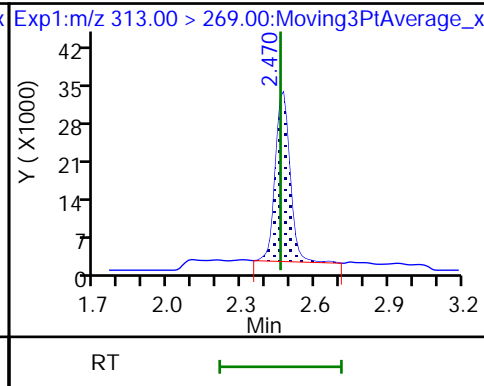
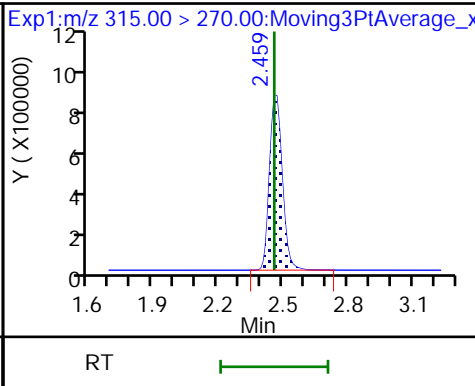
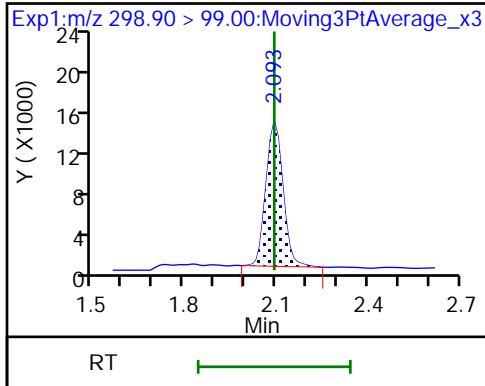
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

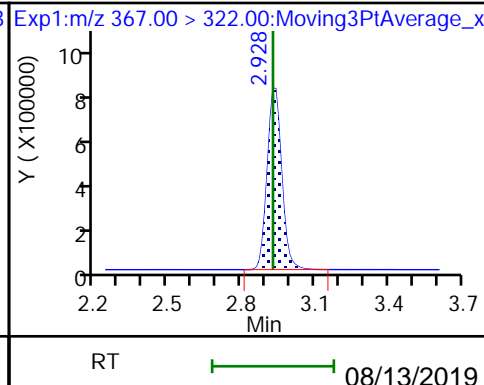
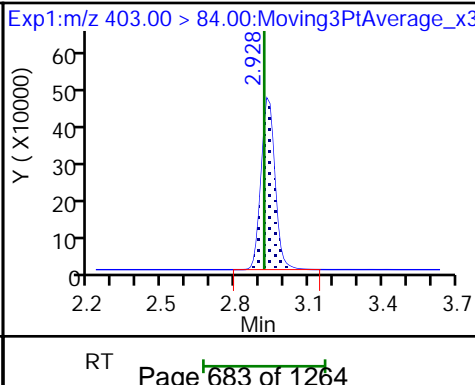
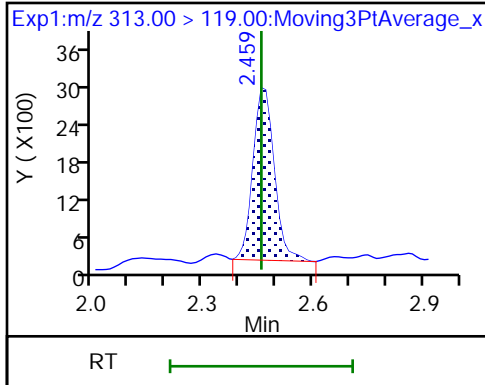
6 Perfluorohexanoic acid

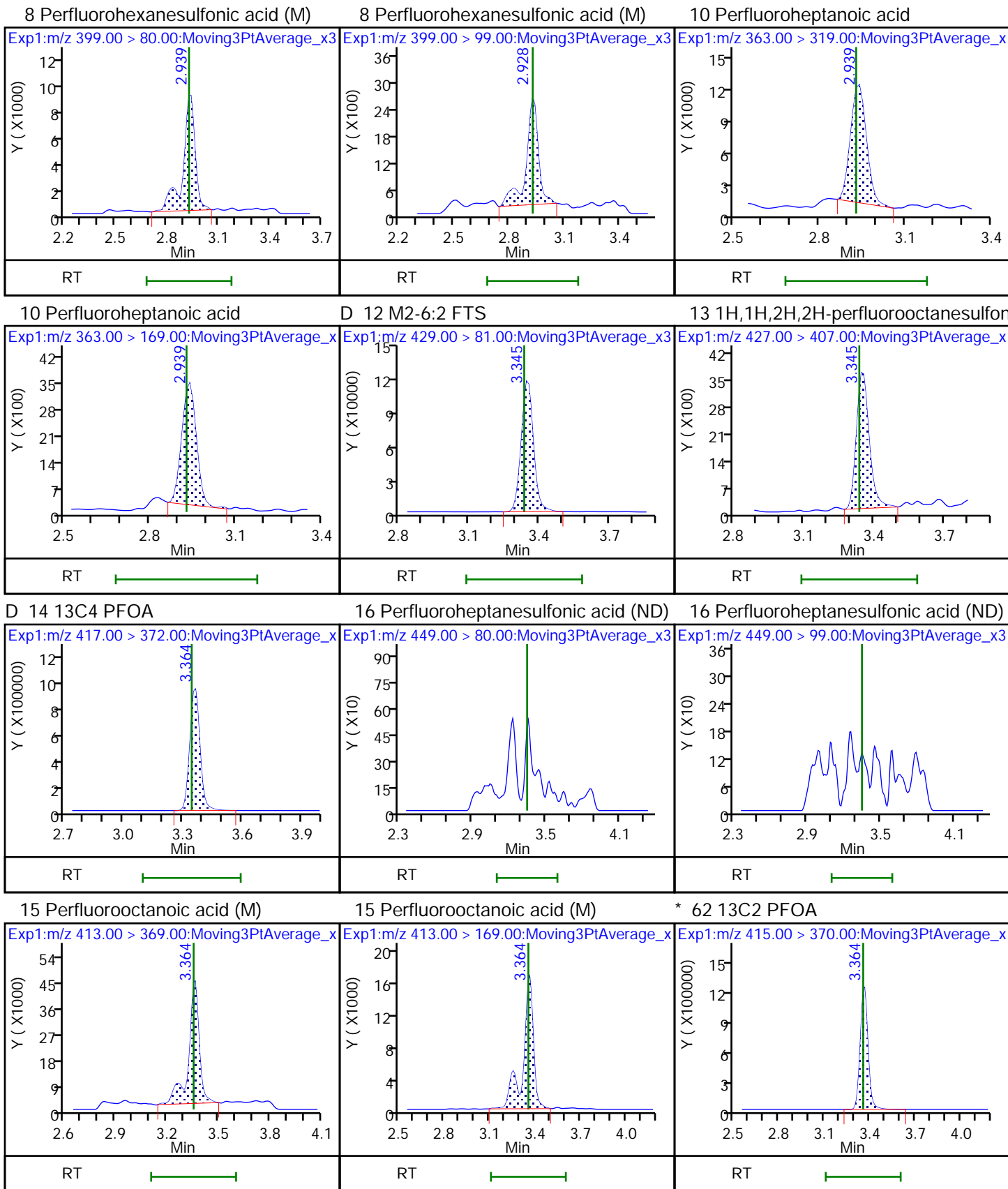


6 Perfluorohexanoic acid

D 11 18O2 PFHxS

D 9 13C4 PFHpA

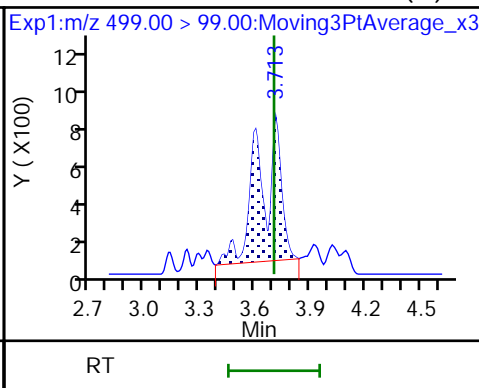
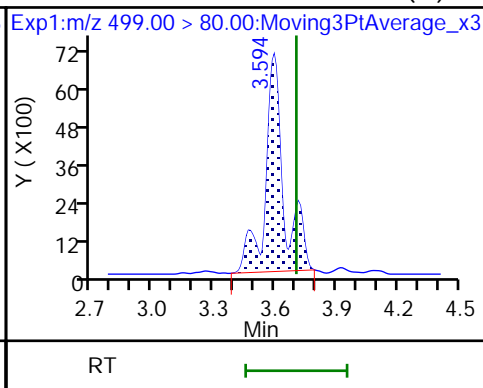
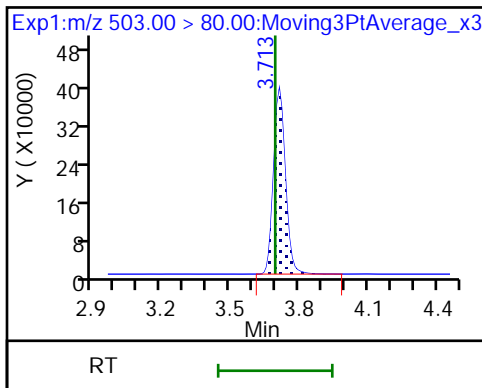




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

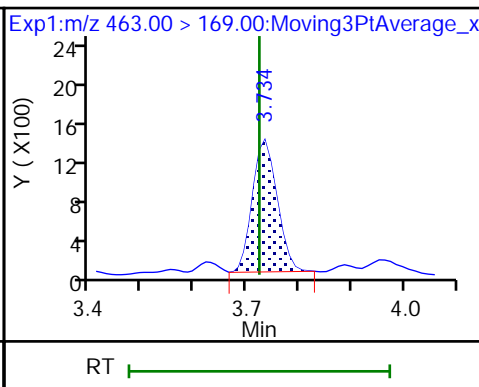
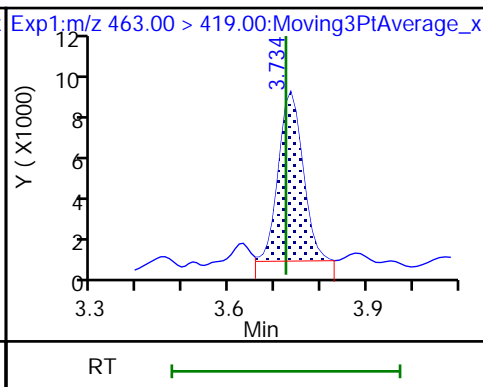
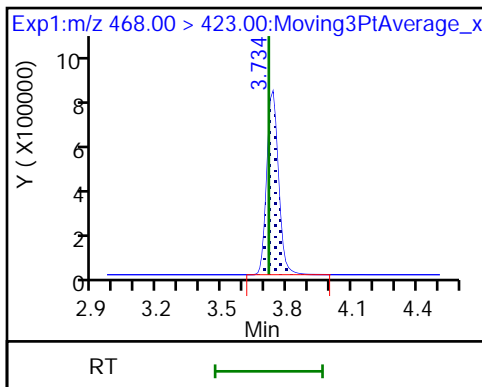
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid

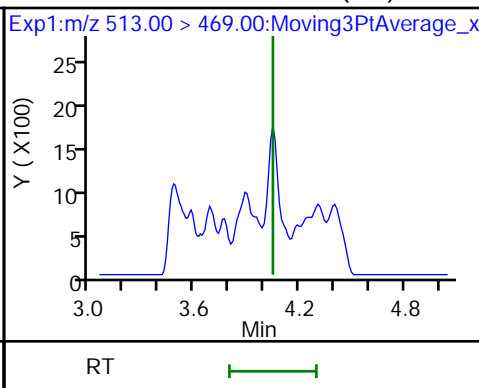
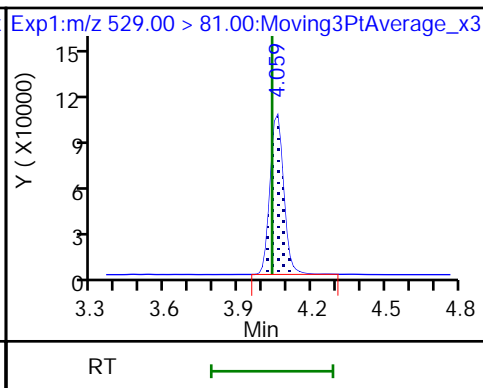
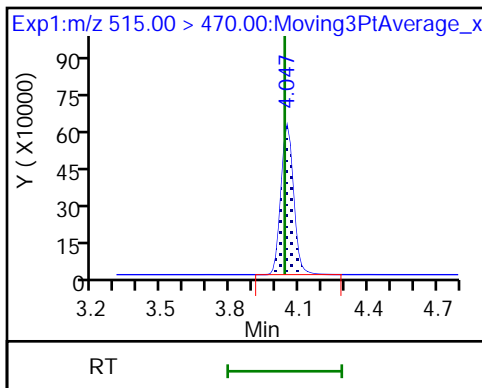
20 Perfluorononanoic acid



D 23 13C2 PFDA

D 26 M2-8:2 FTS

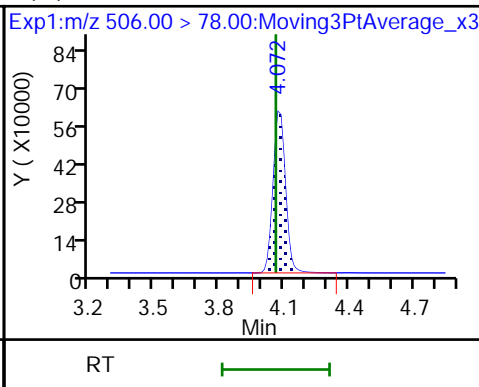
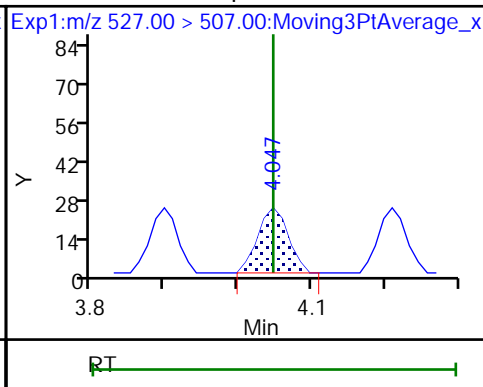
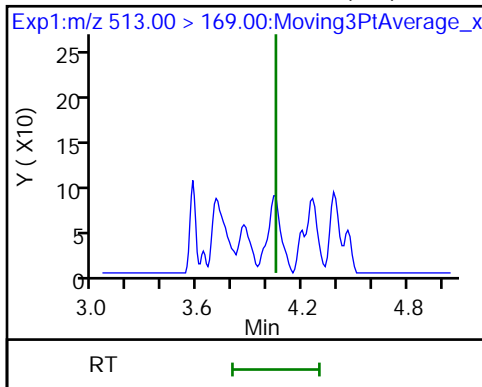
24 Perfluorodecanoic acid (ND)



24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonate (M)

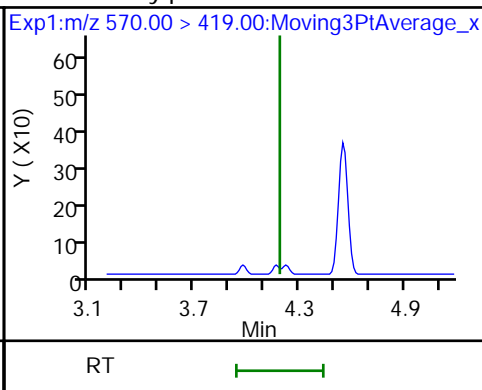
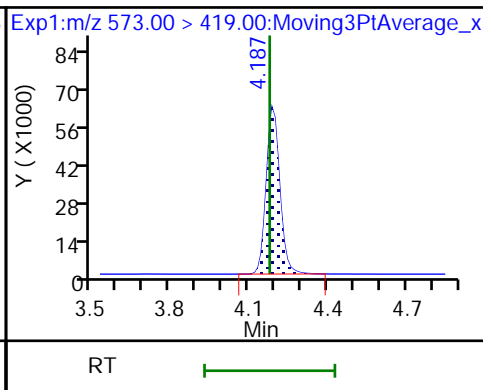
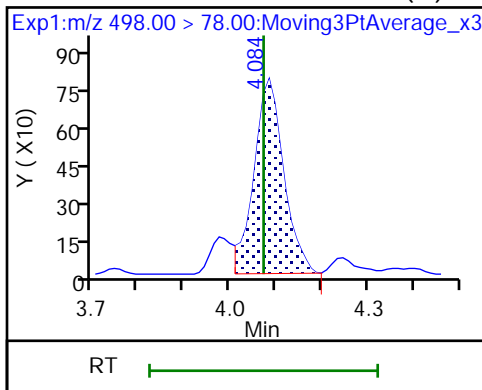
D 27 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

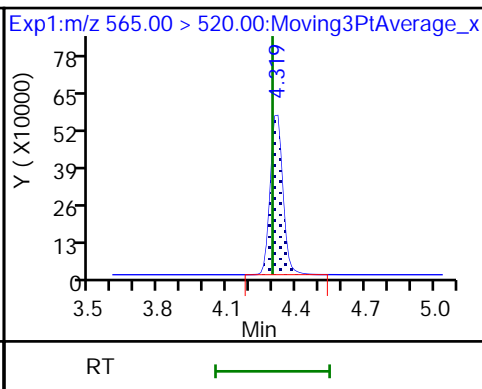
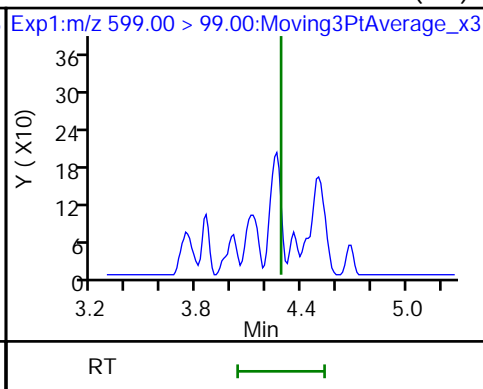
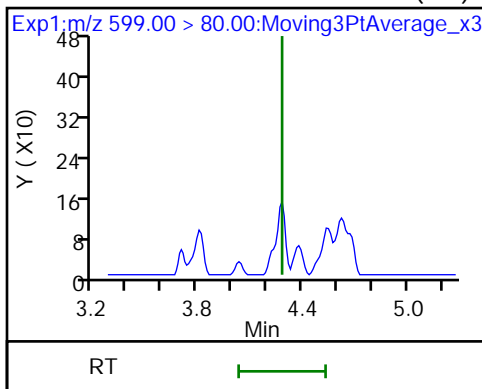
28 N-methylperfluorooctanesulfonamido (ND)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

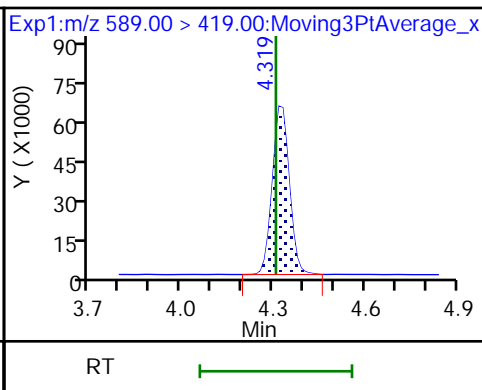
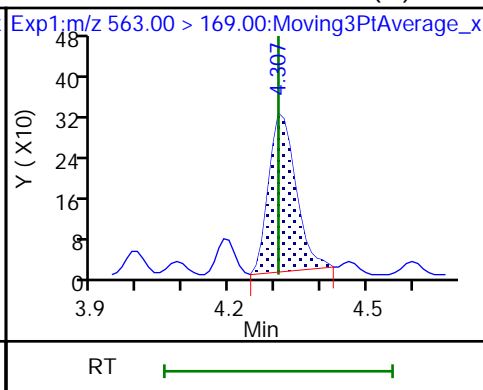
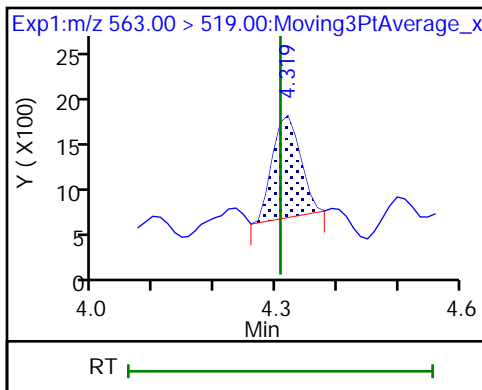
D 30 13C2 PFUa



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

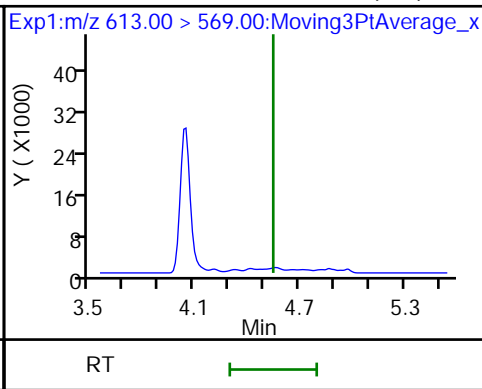
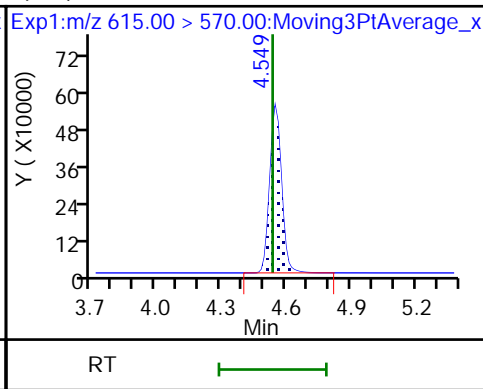
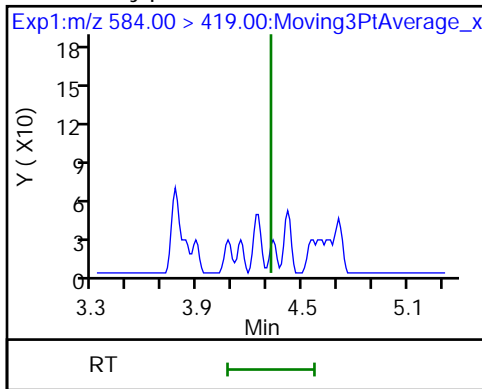
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (ND)

D 33 13C2 PFDoA

37 Perfluorododecanoic acid (ND)

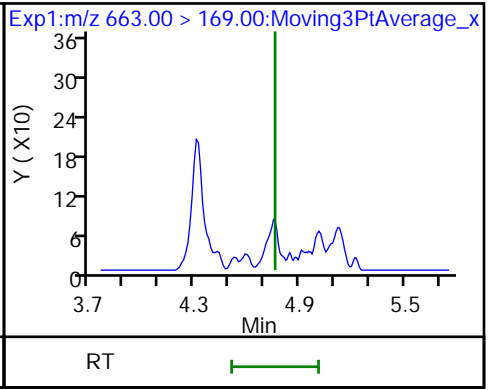
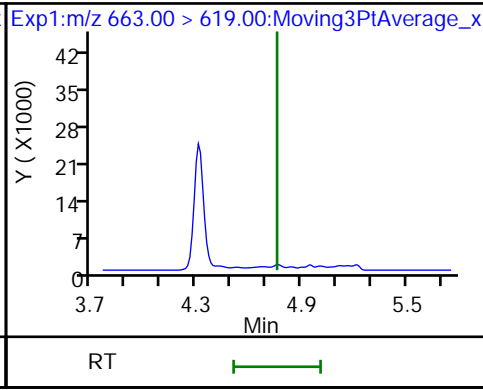
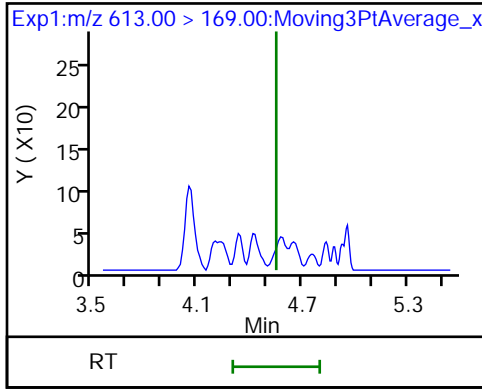




37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

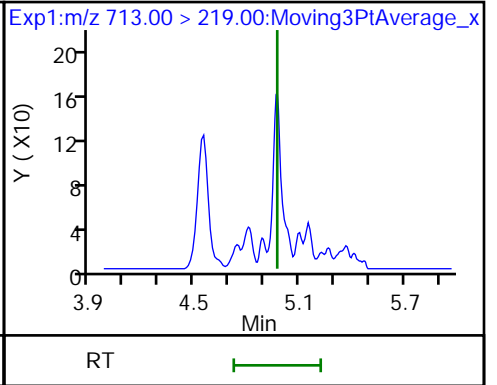
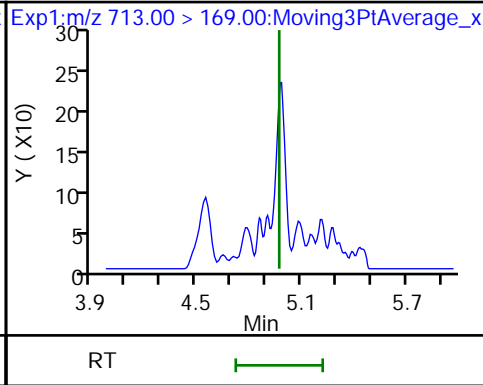
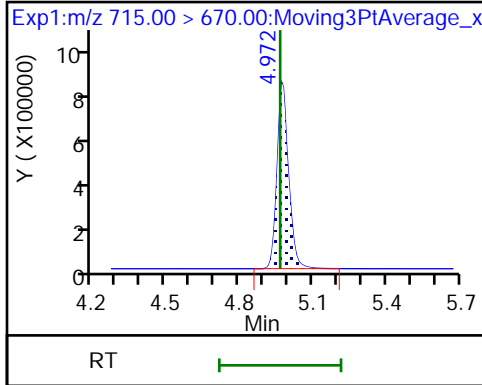
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)



Eurofins TestAmerica, Burlington

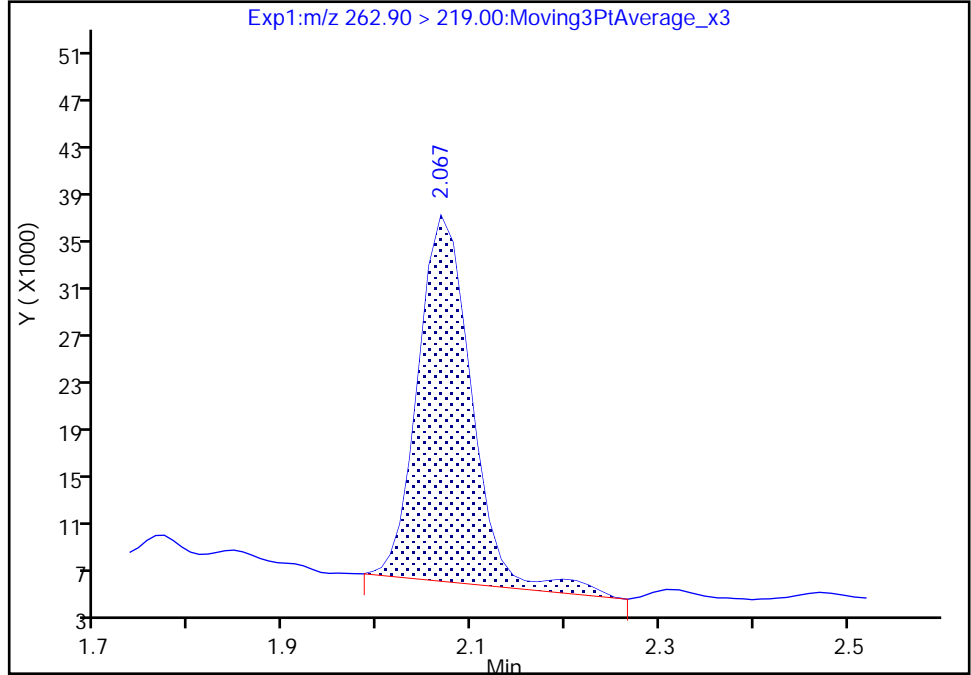
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

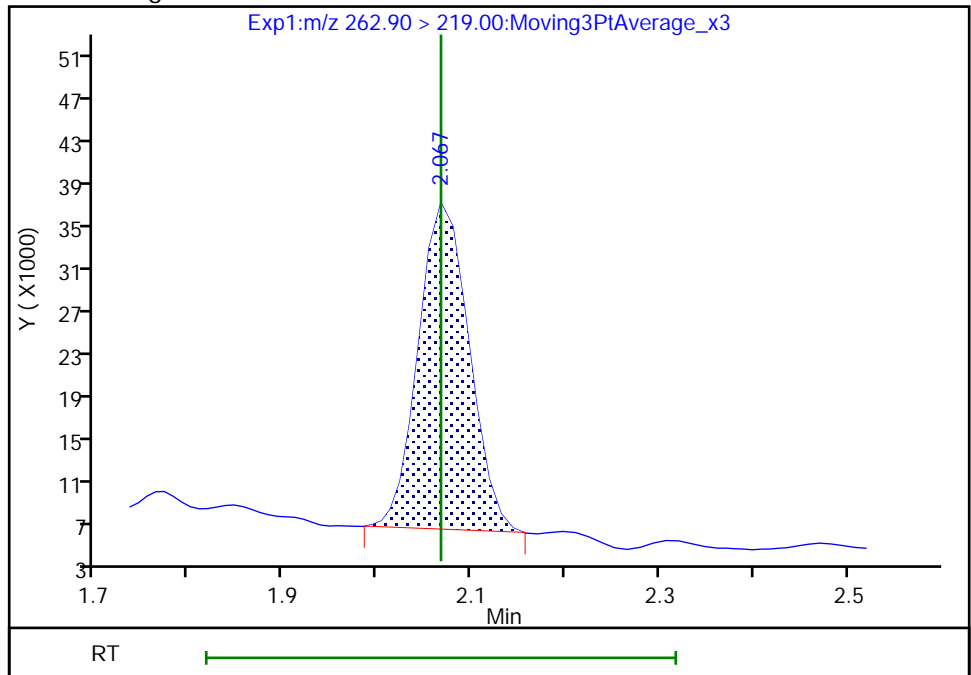
RT: 2.07  
Area: 120568  
Amount: 1.969355  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 112081  
Amount: 1.830728  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:46:43  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

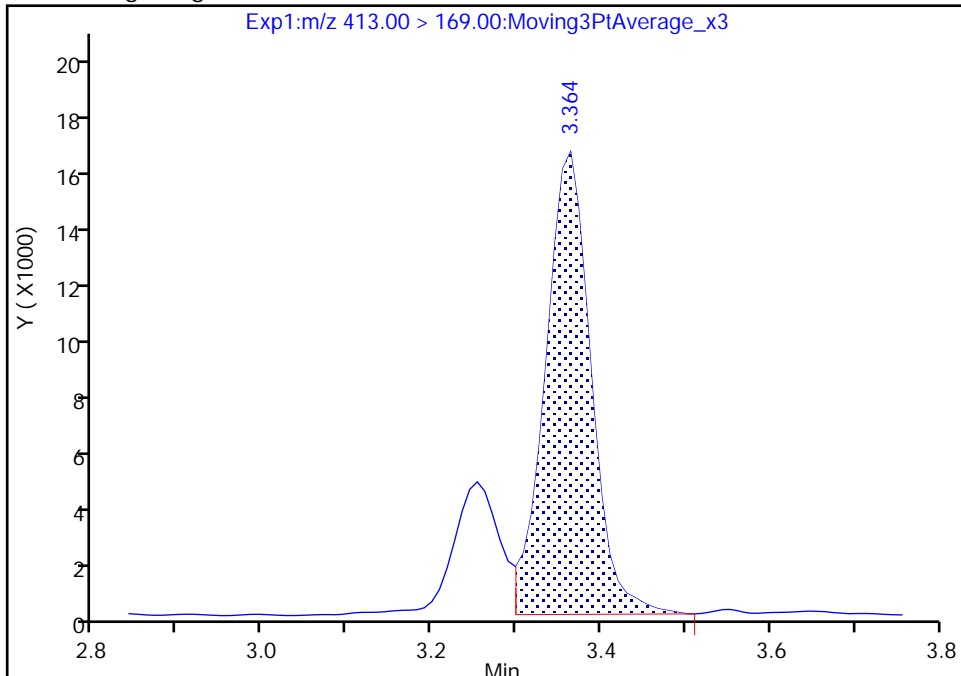
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

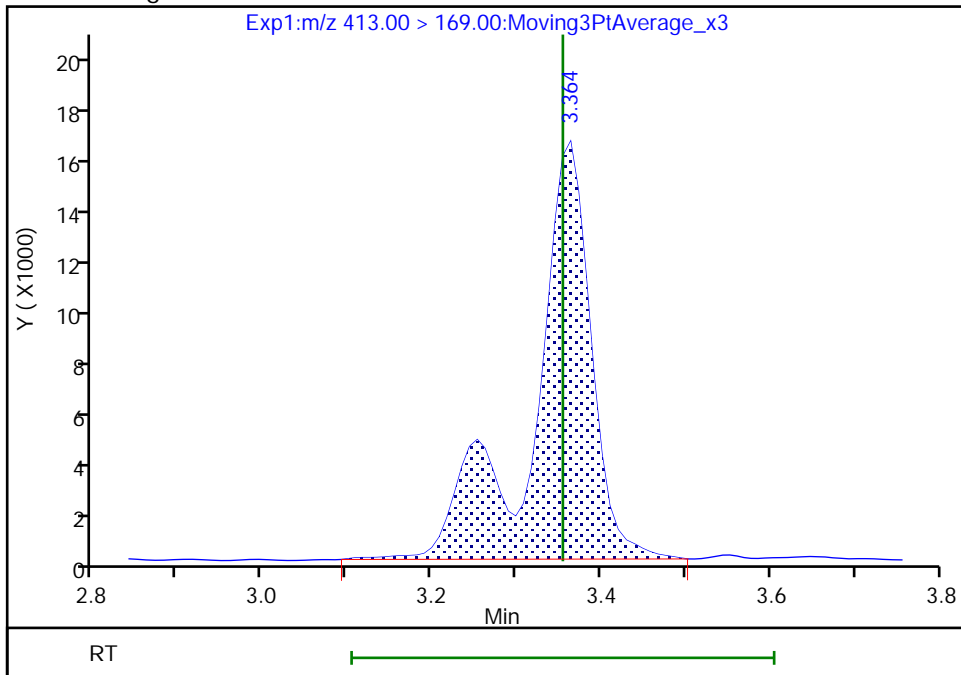
RT: 3.36  
Area: 61373  
Amount: 2.781047  
Amount Units: ng/ml

Processing Integration Results



RT: 3.36  
Area: 79018  
Amount: 2.730815  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:47:24  
Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

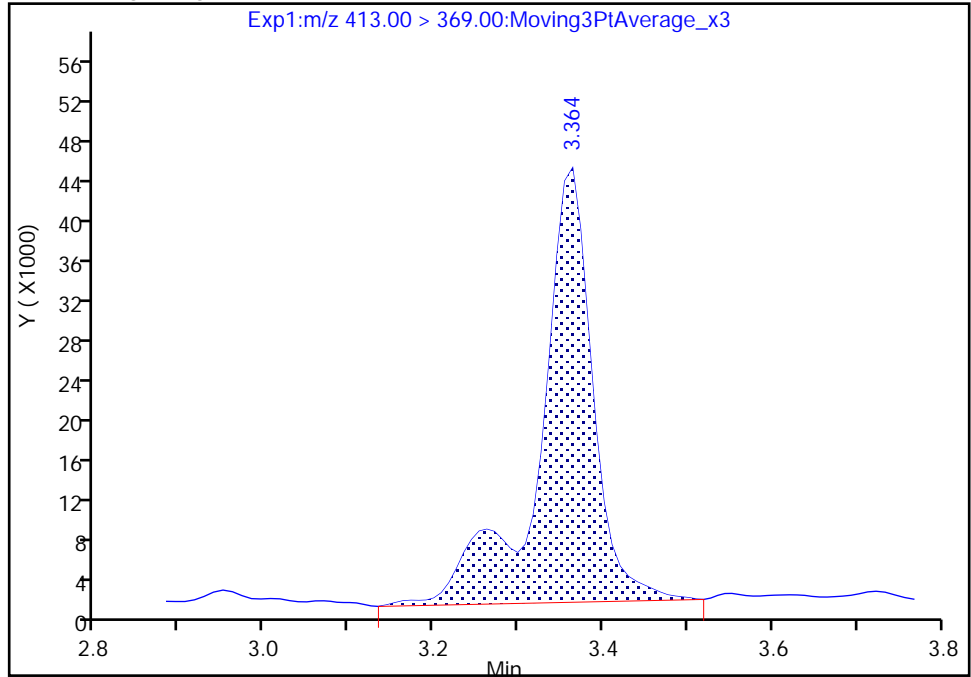
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

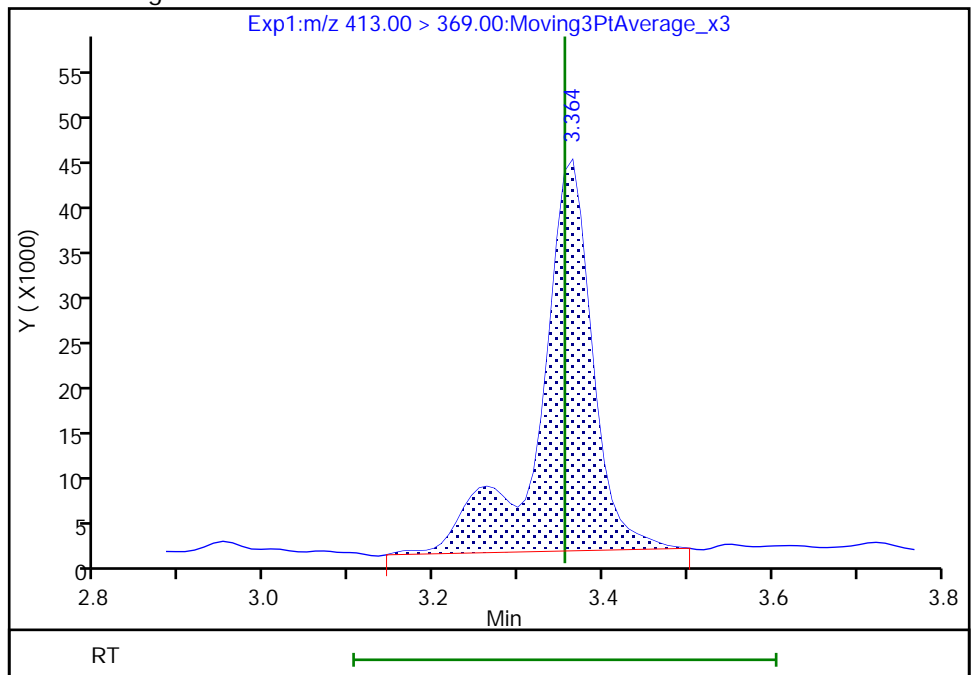
RT: 3.36  
Area: 189623  
Amount: 2.781047  
Amount Units: ng/ml

Processing Integration Results



RT: 3.36  
Area: 186198  
Amount: 2.730815  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:47:30

Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

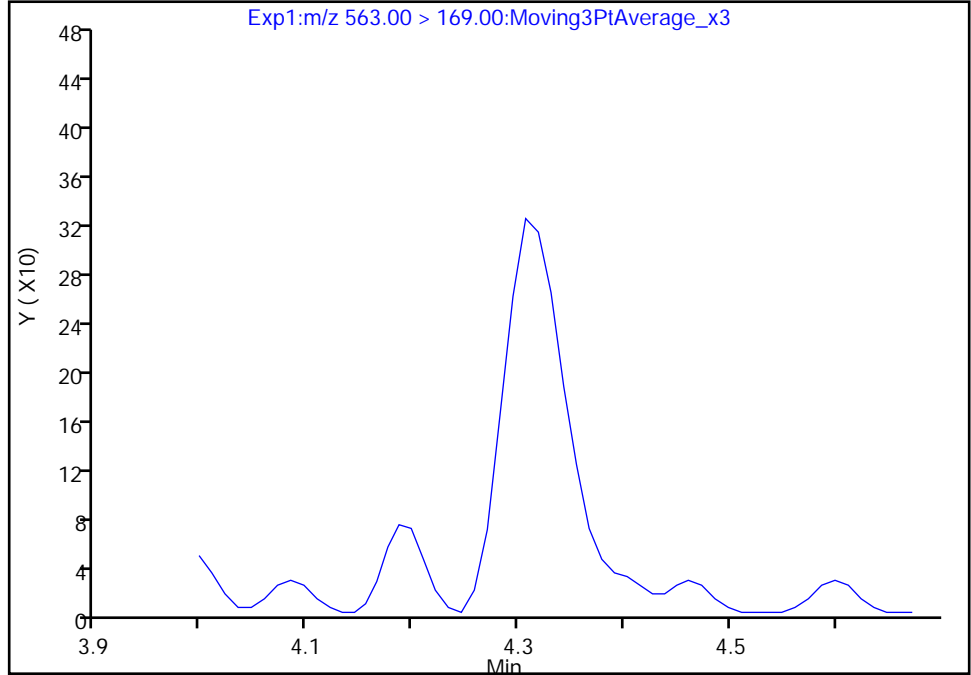
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

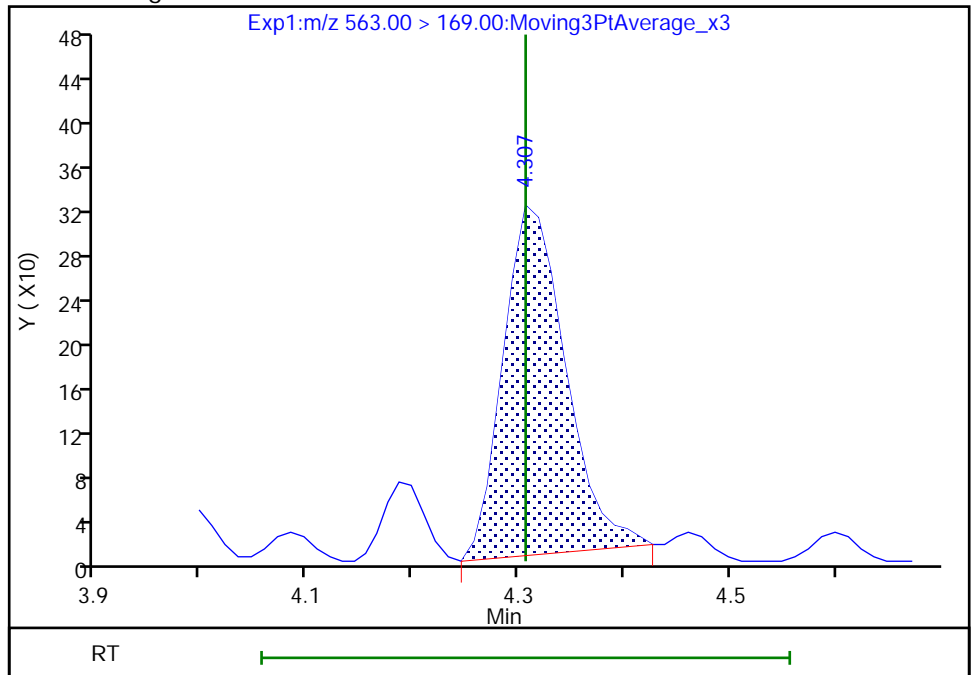
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 1285  
Amount: 0.095360  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:49:10  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

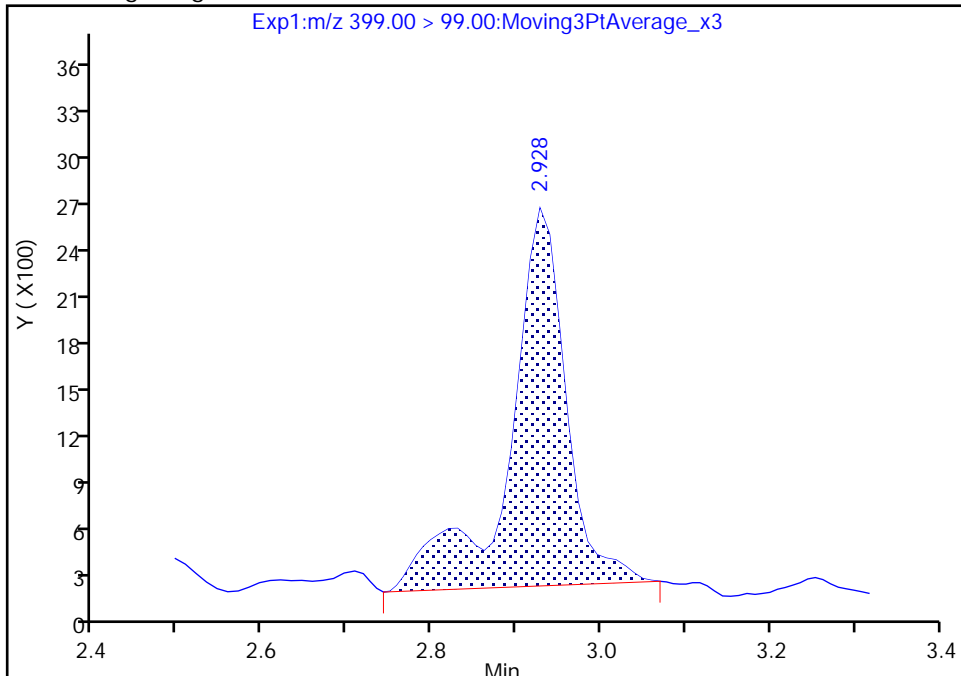
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

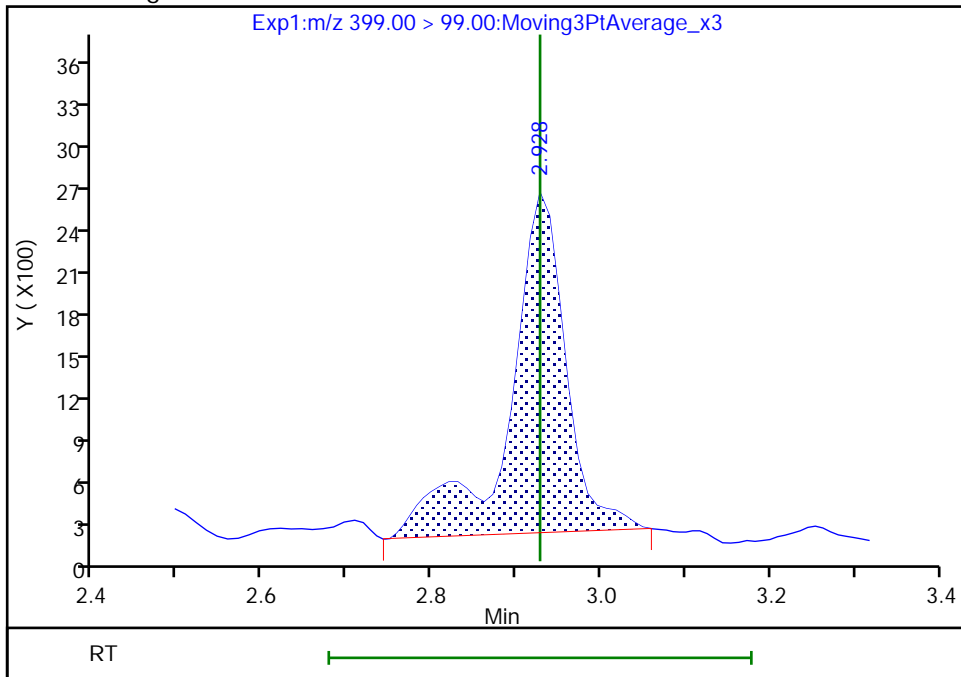
RT: 2.93  
Area: 11330  
Amount: 0.876000  
Amount Units: ng/ml

Processing Integration Results



RT: 2.93  
Area: 11192  
Amount: 0.856375  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:46:59  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

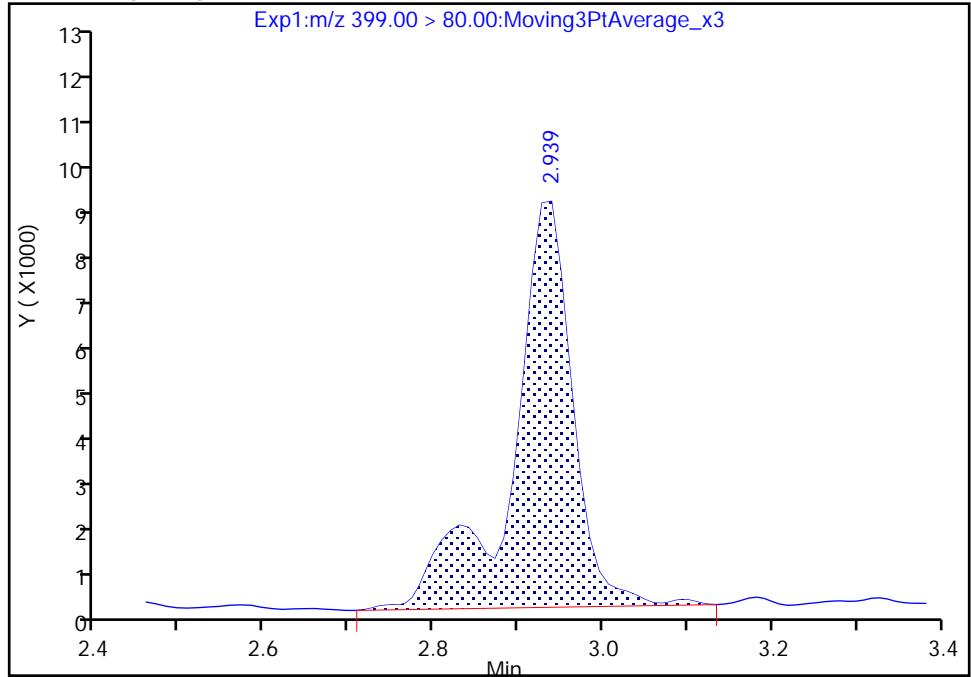
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

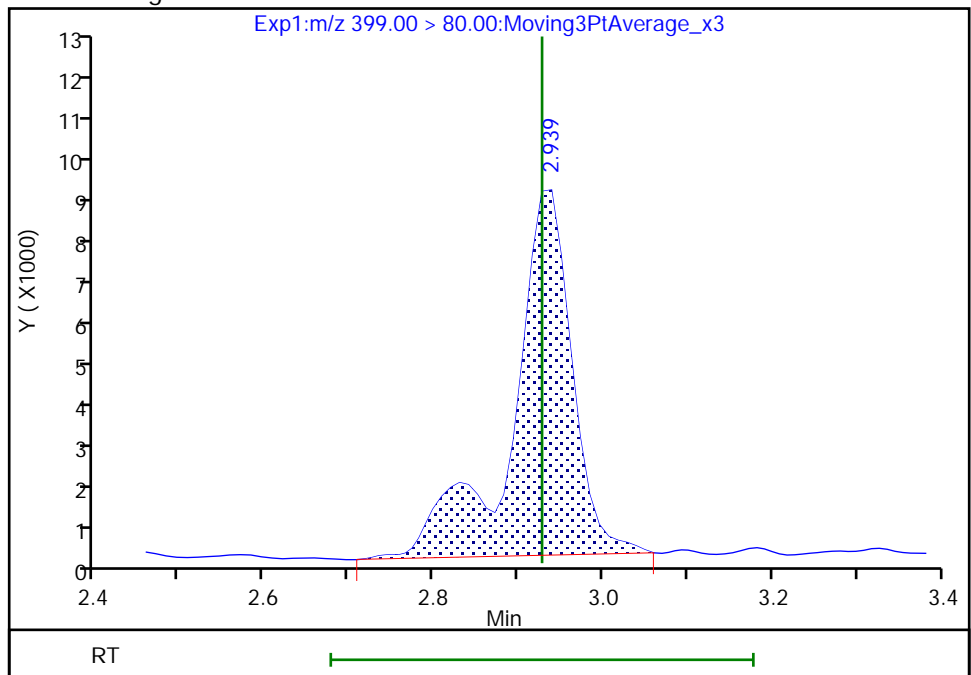
Processing Integration Results

RT: 2.94  
Area: 44682  
Amount: 0.876000  
Amount Units: ng/ml



Manual Integration Results

RT: 2.94  
Area: 43681  
Amount: 0.856375  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:47:03

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

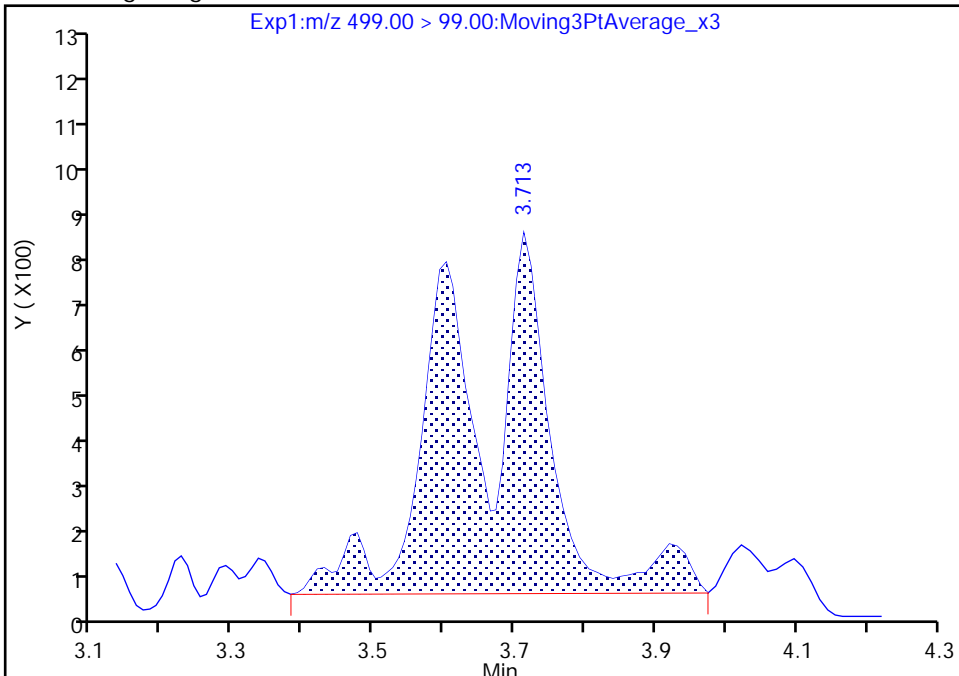
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

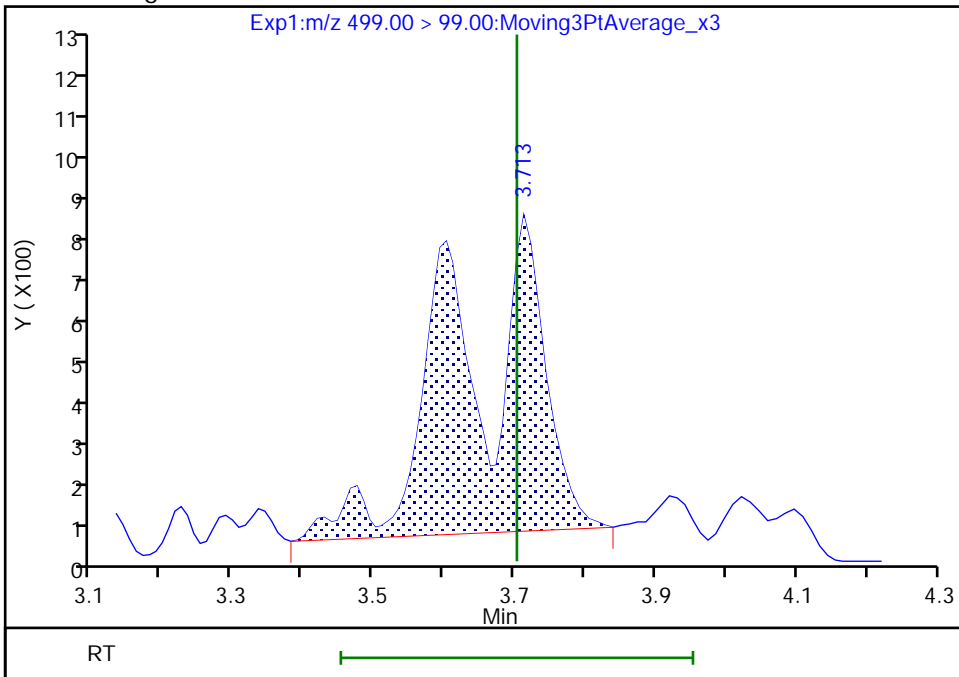
RT: 3.71  
Area: 7347  
Amount: 1.656562  
Amount Units: ng/ml

Processing Integration Results



RT: 3.71  
Area: 6446  
Amount: 1.571239  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:47:39  
Audit Action: Manually Integrated

Audit Reason: Isomers



Eurofins TestAmerica, Burlington

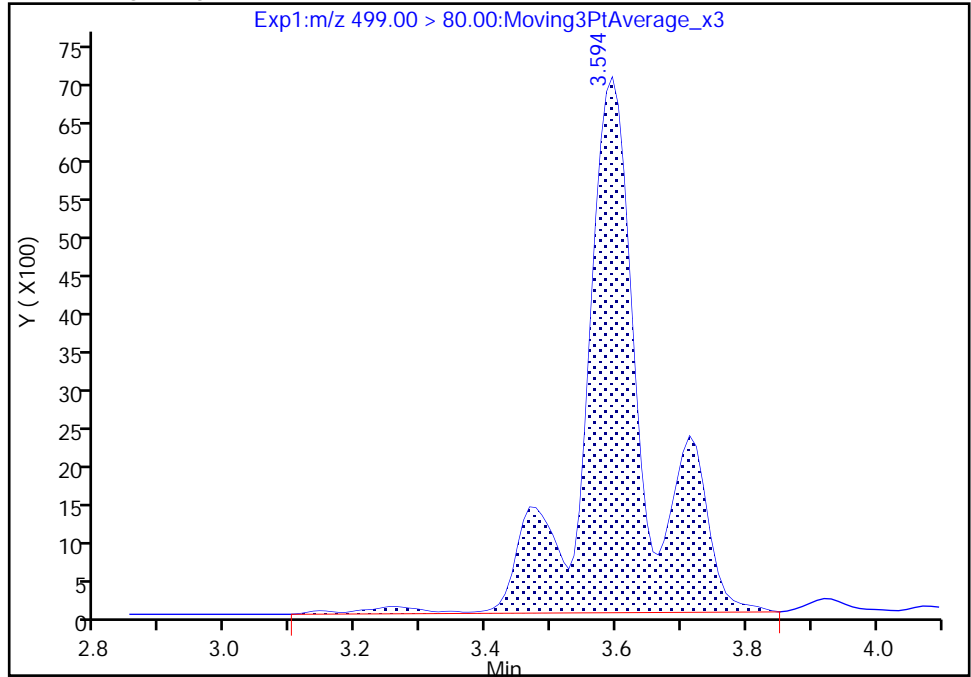
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

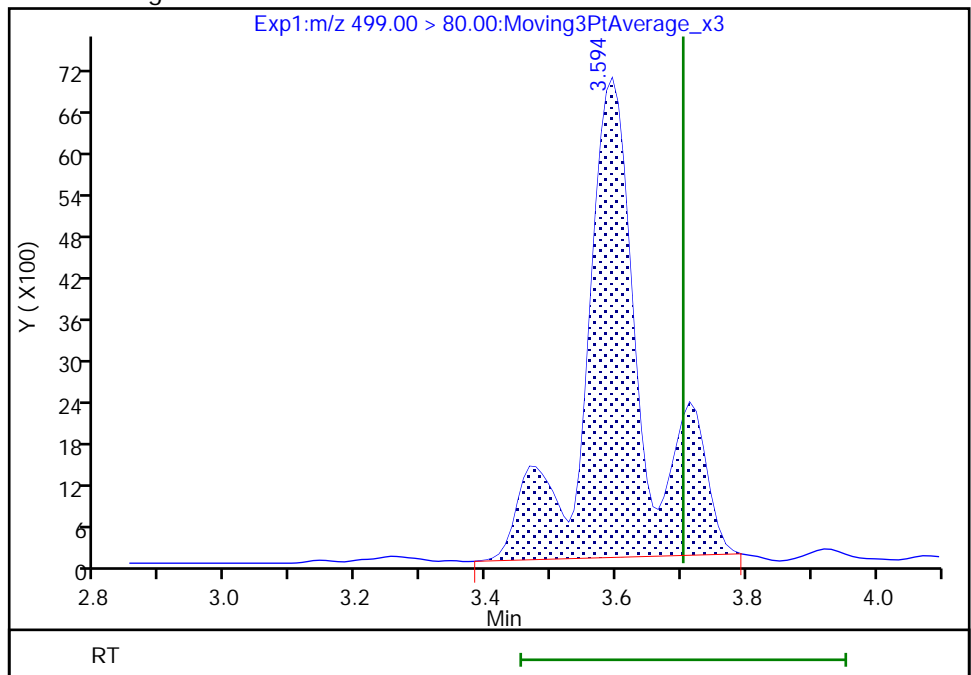
RT: 3.59  
Area: 45975  
Amount: 1.656562  
Amount Units: ng/ml

Processing Integration Results



RT: 3.59  
Area: 43607  
Amount: 1.571239  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:47:44

Audit Action: Manually Integrated

Audit Reason: Isomers

Euofins TestAmerica, Burlington

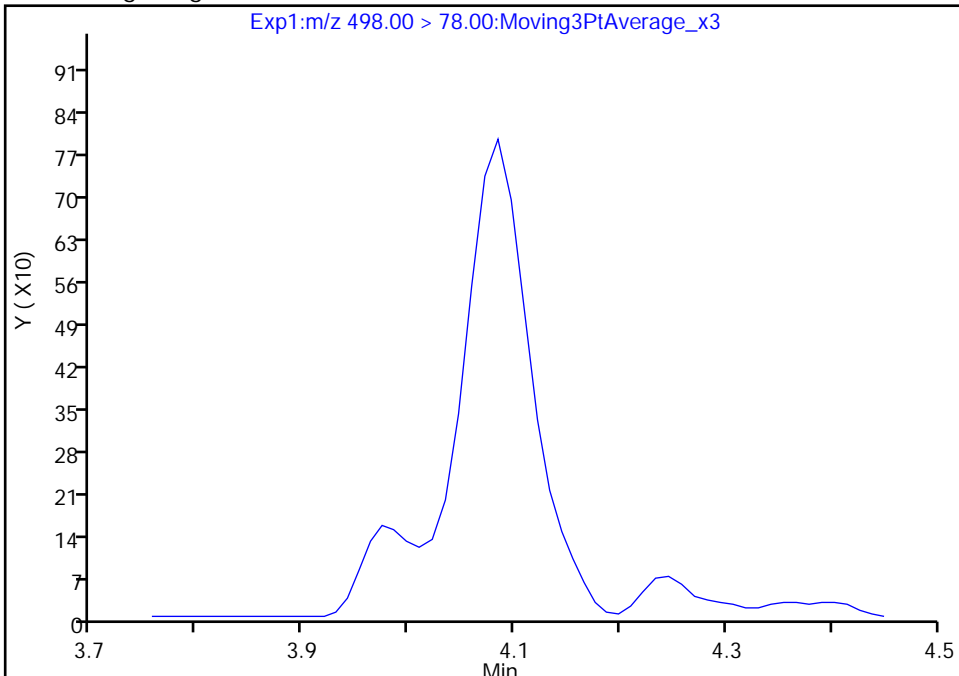
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

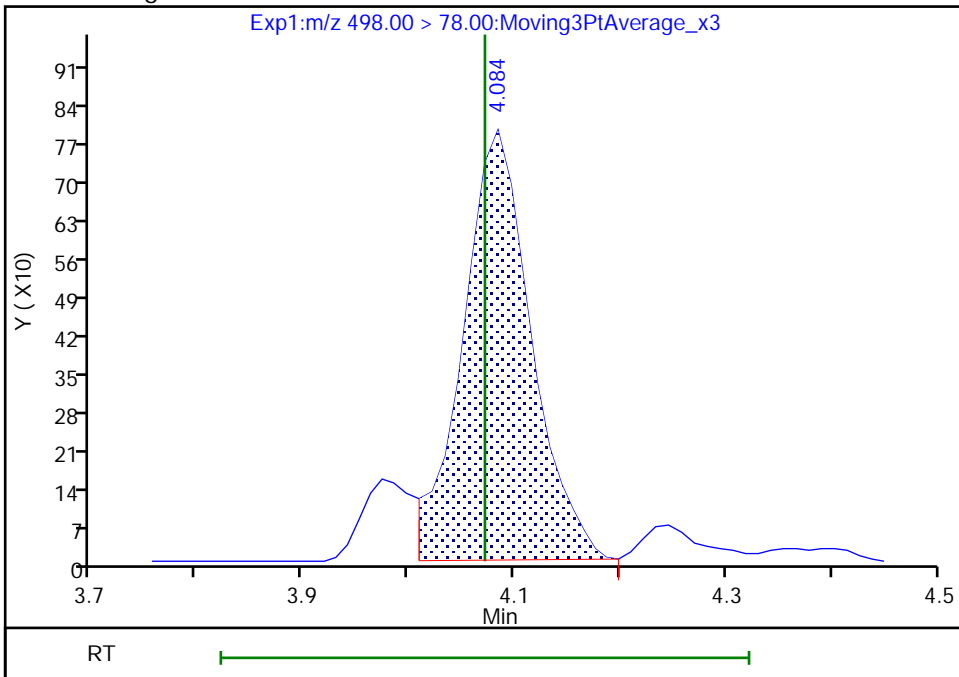
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 3516  
Amount: 0.080931  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:48:19  
Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins TestAmerica, Burlington

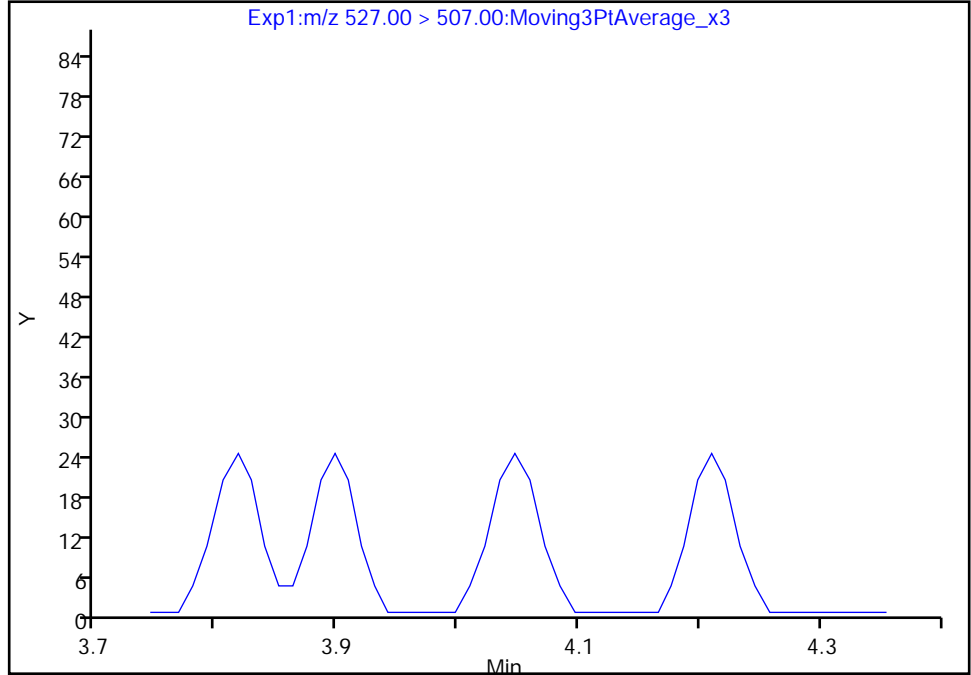
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E007.d  
Injection Date: 02-Aug-2019 04:37:28 Instrument ID: LC812  
Lims ID: 480-156213-F-4-A Lab Sample ID: 200-156213-4  
Client ID: 356023-MW14B 150  
Operator ID: lc812tech ALS Bottle#: 54 Worklist Smp#: 7  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

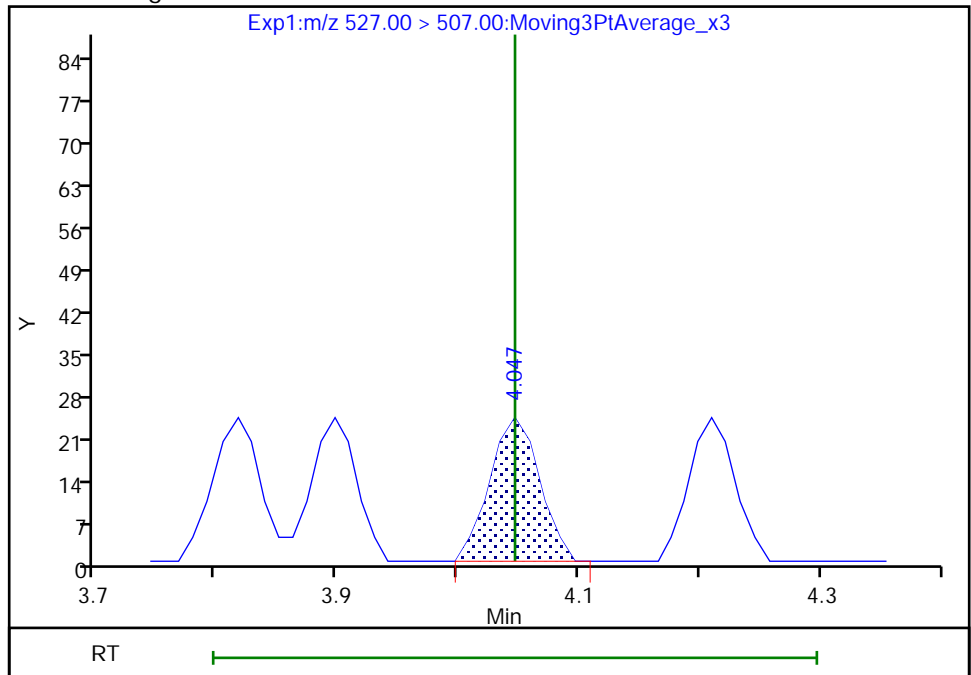
Not Detected  
Expected RT: 4.05

Processing Integration Results



RT: 4.05  
Area: 68  
Amount: 0.006051  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:48:02  
Audit Action: Manually Integrated

Audit Reason: Isomers

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW12B 190 Lab Sample ID: 480-156213-5  
 Matrix: Water Lab File ID: SC080119E008.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 17:27  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 300.2 (mL) Date Analyzed: 08/02/2019 04:45  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.7		1.7	0.83
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.7		1.7	0.52
307-24-4	Perfluorohexanoic acid (PFHxA)	1.7		1.7	0.63
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.84	J	1.7	0.76
335-67-1	Perfluorooctanoic acid (PFOA)	3.1		1.7	0.52
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.64
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.7	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.67	J	1.7	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.79
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.8		1.7	0.51
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.3	8.3
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	17	1.2
27619-97-2	6:2 FTS	ND		17	3.8
39108-34-4	8:2 FTS	ND		17	2.4

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW12B 190 Lab Sample ID: 480-156213-5  
 Matrix: Water Lab File ID: SC080119E008.d  
 Analysis Method: 537 (modified) Date Collected: 07/09/2019 17:27  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 300.2 (mL) Date Analyzed: 08/02/2019 04:45  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	73		25-150
STL00992	13C4 PFBA	75		25-150
STL01893	13C5 PFPeA	82		25-150
STL00993	13C2 PFHxA	91		50-150
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	81		50-150
STL00995	13C5 PFNA	78		50-150
STL00996	13C2 PFDA	80		50-150
STL00997	13C2 PFUnA	75		50-150
STL00998	13C2 PFDoA	66		50-150
STL02116	13C2 PFTeDA	60		50-150
STL02337	13C3 PFBS	86		50-150
STL00994	18O2 PFHxS	88		50-150
STL00991	13C4 PFOS	74		50-150
STL02118	d3-NMeFOSAA	62		50-150
STL02117	d5-NEtFOSAA	57		50-150
STL02279	M2-6:2 FTS	98		25-150
STL02280	M2-8:2 FTS	93		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
 Lims ID: 480-156213-F-5-A  
 Client ID: 356023-MW12B 190  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 04:45:30 ALS Bottle#: 1 Worklist Smp#: 8  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-5-A  
 Misc. Info.: 200-0037095-008 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 16:54:26  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.507	2810601	37.4	74.7	10430	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.708	1.699	0.009	1.005	53174	1.03		9.4		M
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.616	2913003	41.2	82.5	6841	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	58014	1.03		3.1	
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.624	2775114	40.0	86.0	363021	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.093	2.093	0.0	1.000	42185	0.6953	Target=1.90	27.3		
298.90 > 99.00	2.093	2.093	0.0	1.000	22511		1.87(0.95-2.85)	17.3		M
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.733	3195816	45.5	91.1	6894	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.005	66409	1.01	Target=13.23	15.8	
313.00 > 119.00	2.459	2.459	0.0	1.000	5503		12.07(6.61-19.84)	7.3		
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.873	1683824	41.4	87.6	4560	
D 9 13C4 PFHpA	367.00 > 322.00	2.928	2.928	0.0	0.873	3115599	45.3	90.6	8362	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.928	2.928	0.0	1.000	18934	0.4036	Target=3.37	14.3		M
399.00 > 99.00	2.928	2.928	0.0	1.000	3938		4.81(1.69-5.06)	4.4		M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.939	2.928	0.011	1.004	29531	0.5060	Target=3.76	6.3	
363.00 > 169.00	2.939	2.928	0.011	1.004	9117		3.24(1.88-5.65)	33.8		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.344	3.335	0.009	0.997	393857	46.6		98.0	648	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.354	3.336	0.018	1.003	11855	0.8336			30.5	
D 14 13C4 PFOA										
417.00 > 372.00	3.363	3.344	0.019	1.003	2935454	40.4		80.9	9975	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.363	3.355	0.008	1.000	117203	1.83	Target=2.84		12.0	M
413.00 > 169.00	3.363	3.355	0.008	1.000	46557		2.52(1.42-4.25)		156	M
* 62 13C2 PFOA										
415.00 > 370.00	3.354	3.355	-0.001		3991536	50.0			9625	
D 18 13C4 PFOS										
503.00 > 80.00	3.715	3.695	0.020	1.108	1197615	35.4		74.0	4086	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.587	3.703	-0.116	0.966	40434	1.71	Target=4.33		69.9	RM
499.00 > 99.00	3.705	3.703	0.002	0.997	5761		7.02(2.16-6.49)		8.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.725	3.715	0.010	1.111	2577590	38.9		77.8	12717	
20 Perfluorononanoic acid										
463.00 > 419.00	3.725	3.723	0.002	1.000	5872	0.1257	Target=8.15		2.1	M
463.00 > 169.00	3.725	3.723	0.002	1.000	1167		5.03(4.08-12.23)		13.3	M
D 23 13C2 PFDA										
515.00 > 470.00	4.049	4.036	0.013	1.207	2111087	39.8		79.7	8093	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.061	4.036	0.025	1.211	345966	44.3		92.5	947	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.049	4.047	0.002	1.000	2970	0.0727	Target=9.58		0.9	M
513.00 > 169.00	4.049	4.047	0.002	1.000	436		6.81(4.79-14.37)		2.7	M
D 21 13C8 FOSA										
506.00 > 78.00	4.074	4.061	0.013	1.215	2206582	36.3		72.6	6893	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.072	0.002	1.000	1717	0.0426			14.9	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.189	4.178	0.011	1.249	208572	30.8		61.6	1947	
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.296	0.012	1.285	1803151	37.4		74.7	12248	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.320	4.307	0.013	1.003	3802	0.1229	Target=7.95		1.8	M
563.00 > 169.00	4.296	4.307	-0.011	0.997	582		6.53(3.98-11.93)		7.8	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.308	0.012	1.288	214203	28.4		56.8	819	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.320	4.319	0.001	1.000	539	0.1966			4.6	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.550	4.537	0.013	1.357	1711704	33.0		65.9	9153	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.483	2146141	30.0		60.0	7059	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.986	4.972	0.014	1.003	470	0.0823	Target=1.02		5.0	RM
713.00 > 219.00	4.986	4.972	0.014	1.003	295		1.59(0.51-1.54)		6.1	M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d

Injection Date: 02-Aug-2019 04:45:30

Instrument ID: LC812

Lims ID: 480-156213-F-5-A

Lab Sample ID: 200-156213-5

Client ID: 356023-MW12B 190

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 8

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

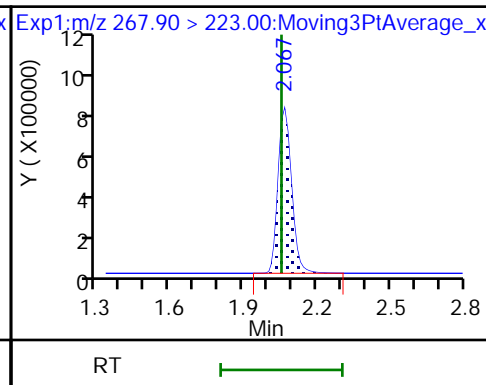
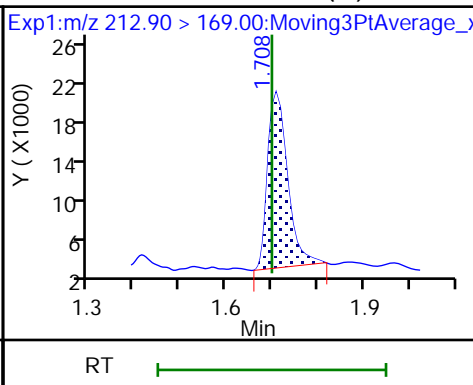
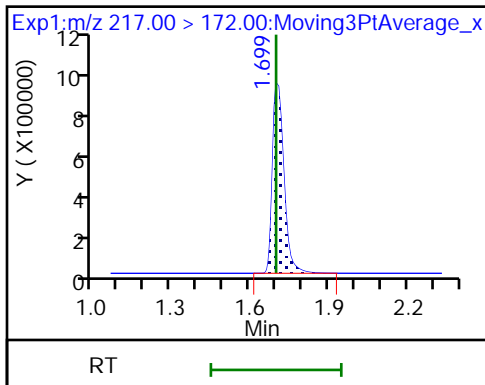
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

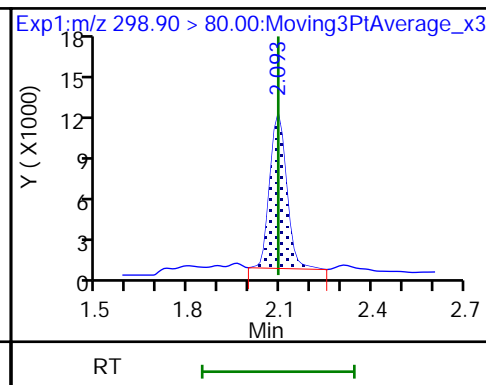
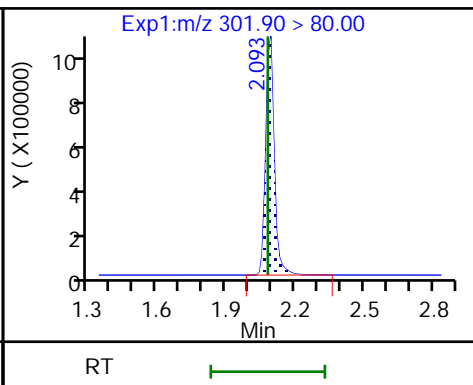
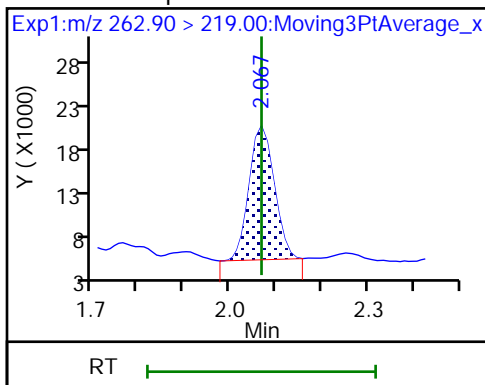
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

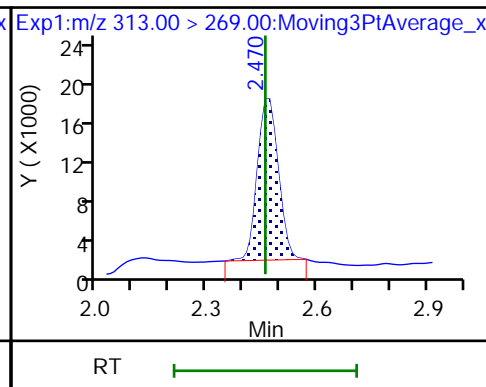
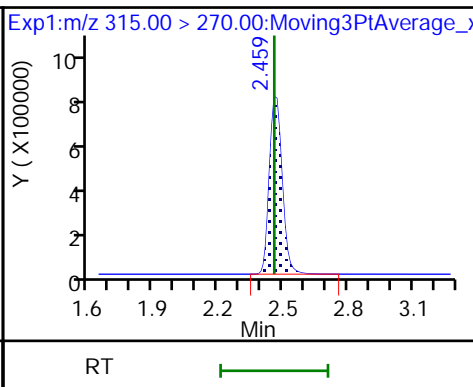
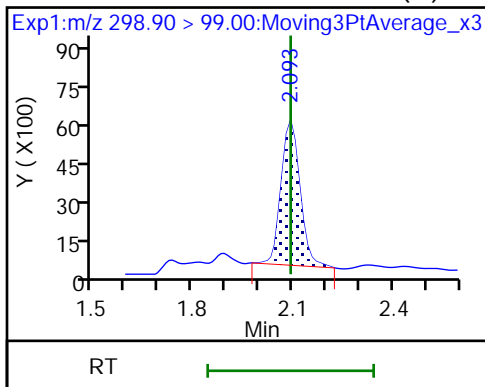
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

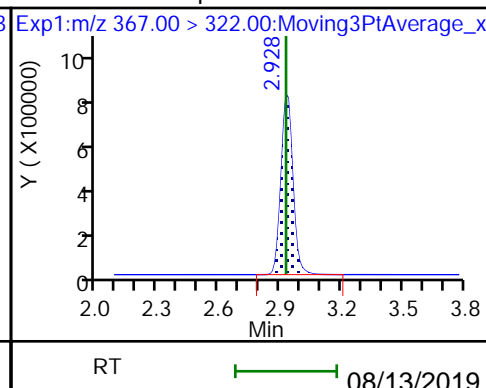
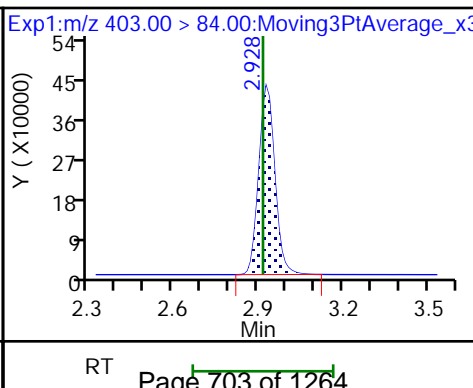
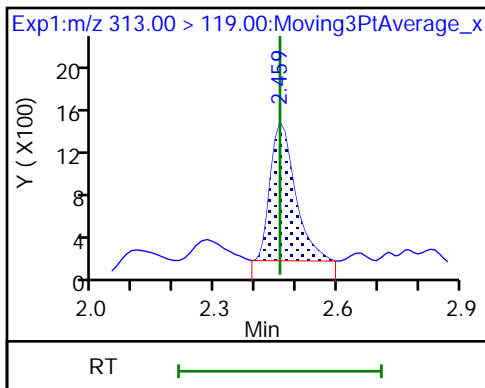
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid

D 11 18O2 PFHxS

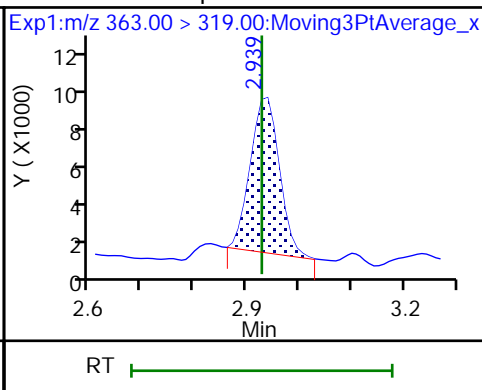
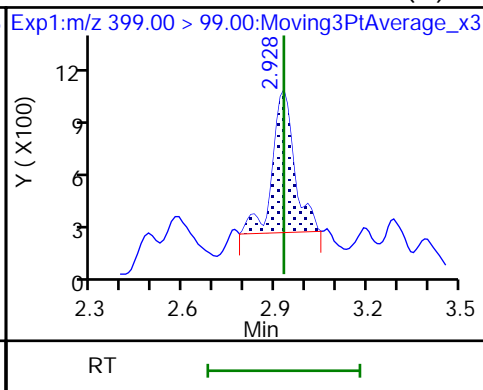
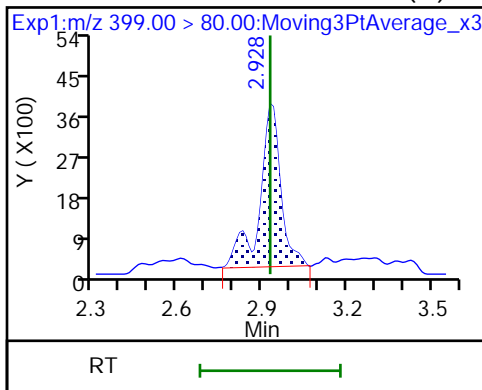
D 9 13C4 PFHpA



8 Perfluorohexanesulfonic acid (M)

8 Perfluorohexanesulfonic acid (M)

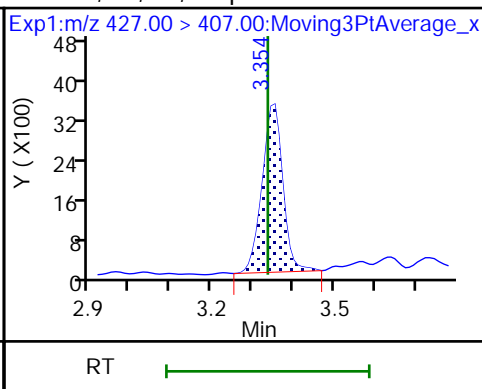
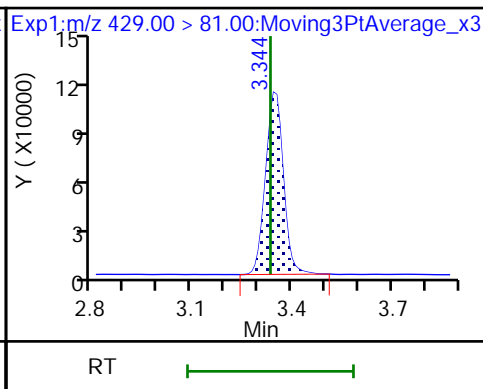
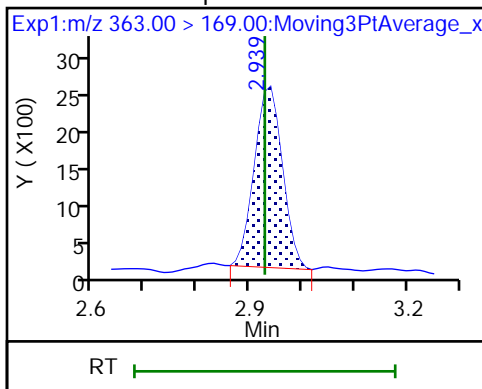
10 Perfluoroheptanoic acid



10 Perfluoroheptanoic acid

D 12 M2-6:2 FTS

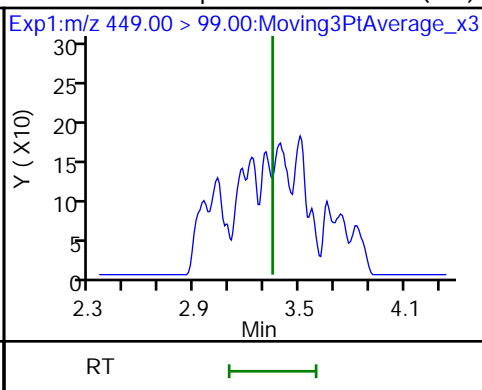
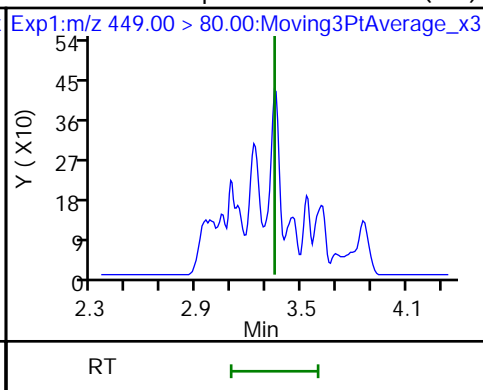
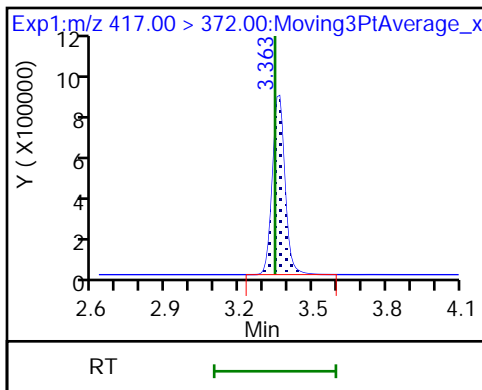
13 1H,1H,2H,2H-perfluorooctanesulfoni



D 14 13C4 PFOA

16 Perfluoroheptanesulfonic acid (ND)

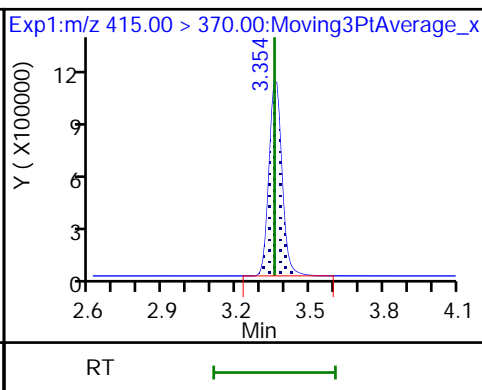
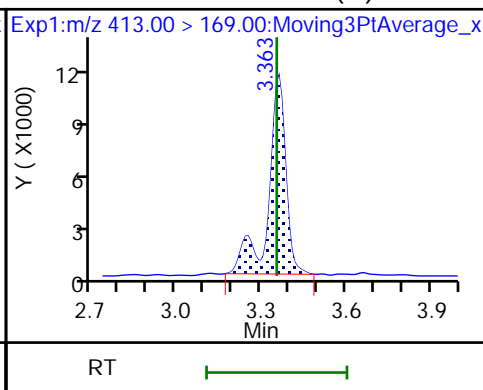
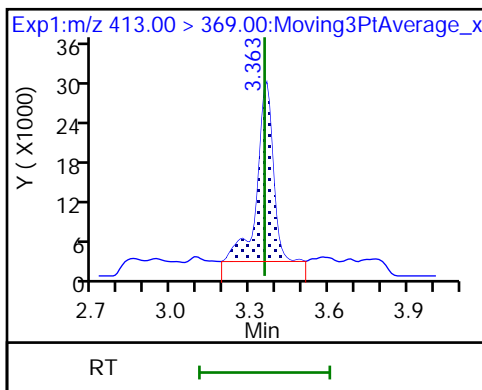
16 Perfluoroheptanesulfonic acid (ND)



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

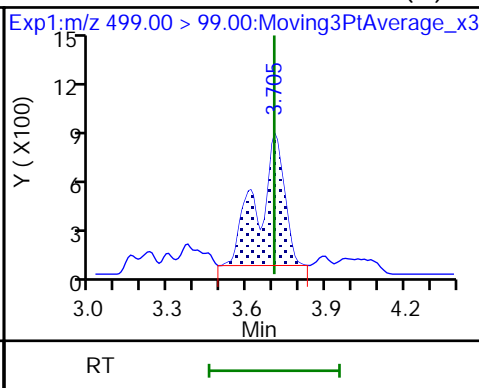
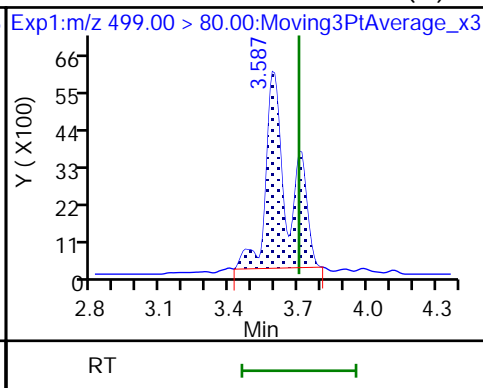
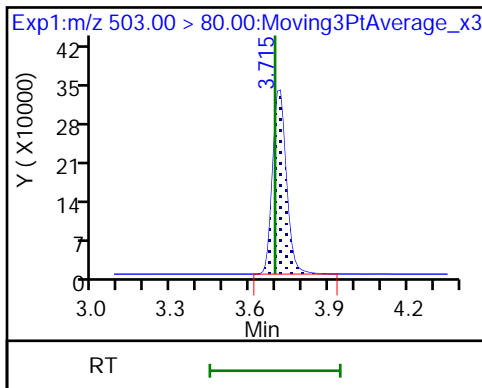
\* 62 13C2 PFOA



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

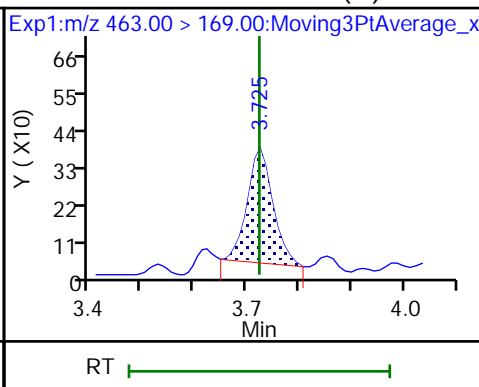
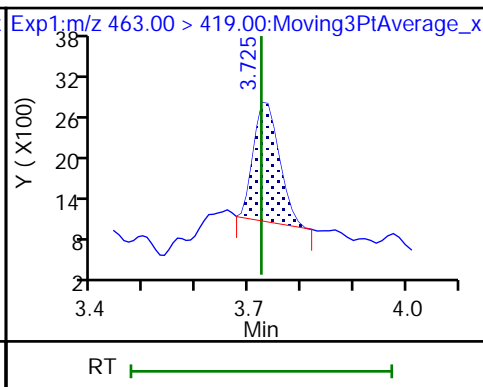
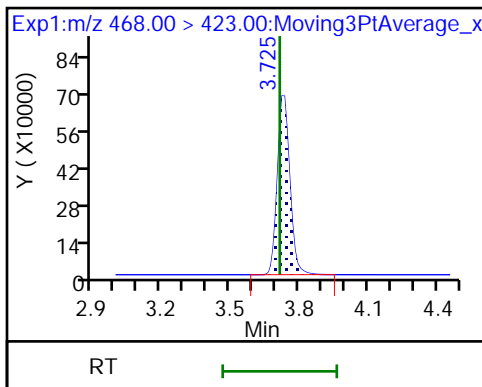
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid

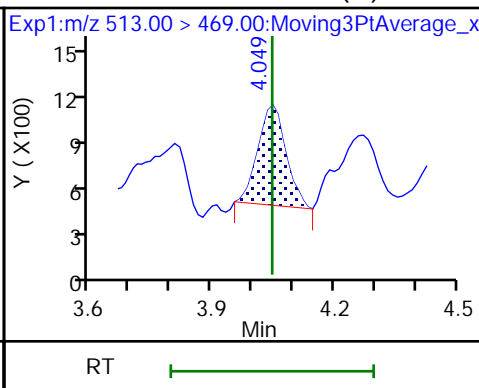
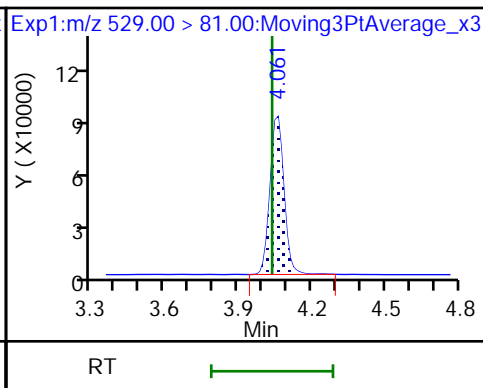
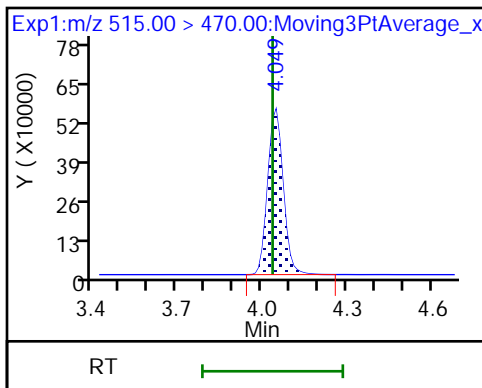
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

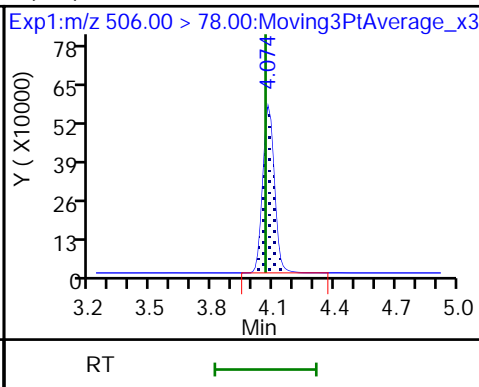
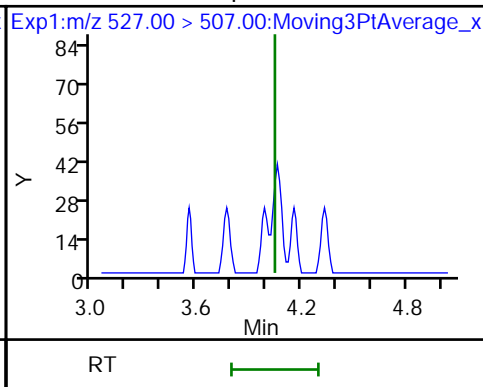
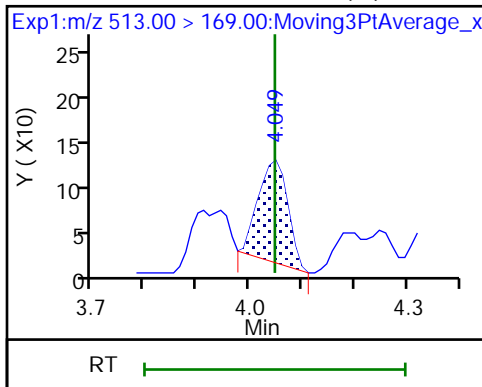
24 Perfluorodecanoic acid (M)



24 Perfluorodecanoic acid (M)

25 1H,1H,2H,2H-perfluorodecanesulfonate (M)

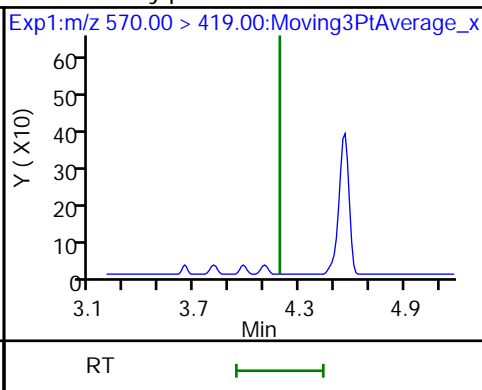
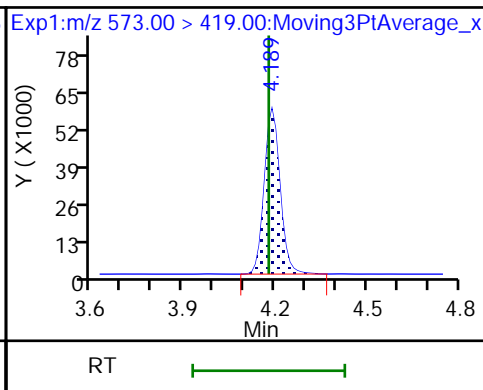
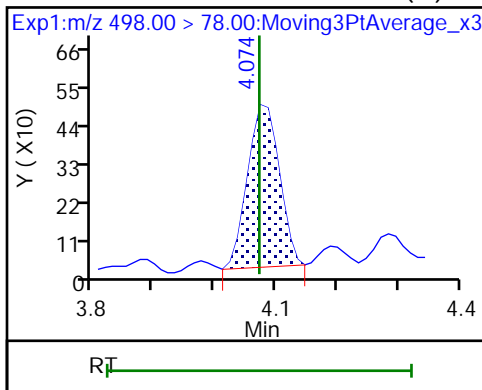
(M) 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

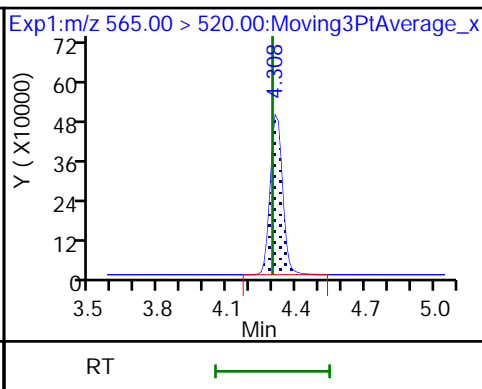
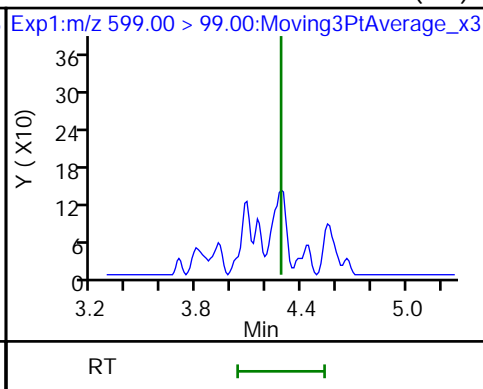
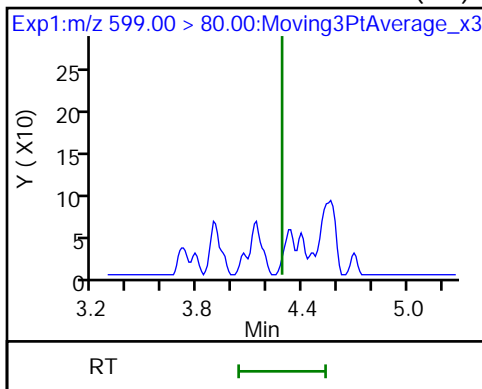
28 N-methylperfluorooctanesulfonamido (ND)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

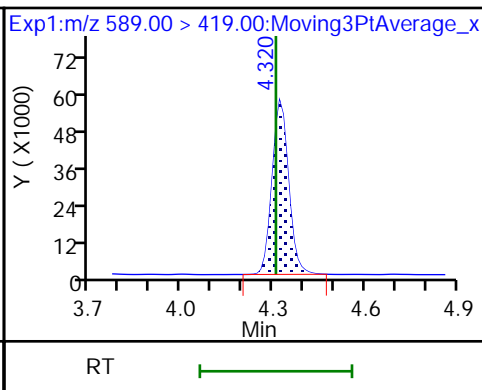
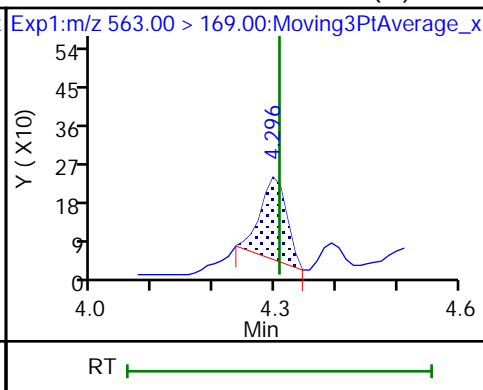
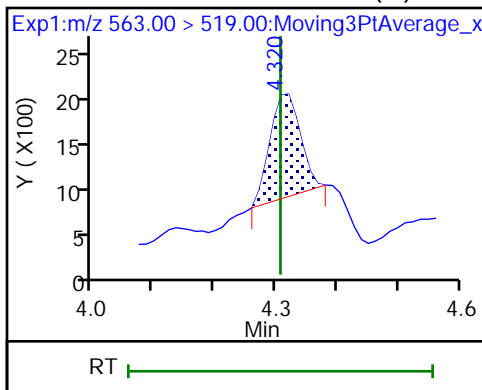
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

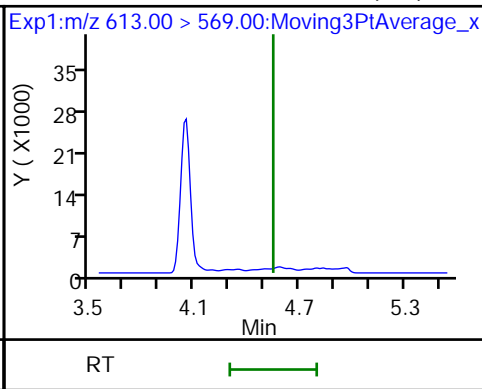
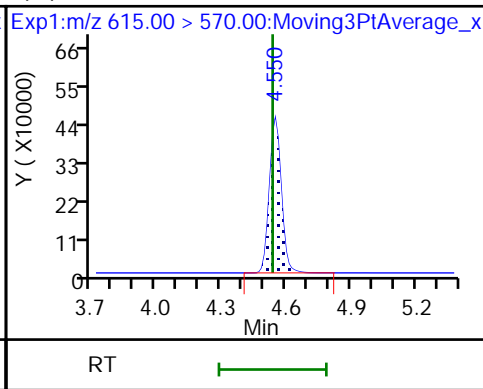
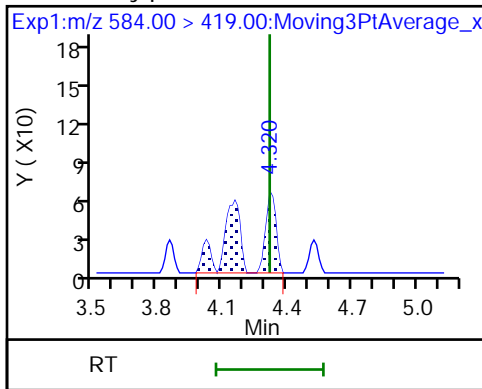
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (M)

D 36 13C2 PFDoA

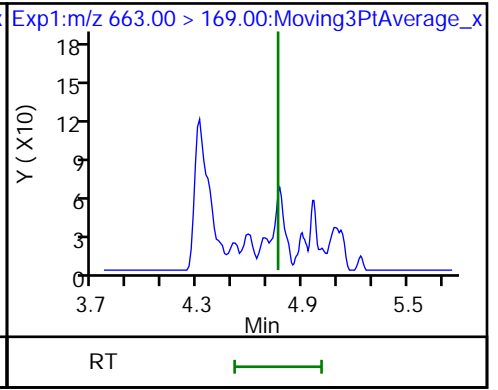
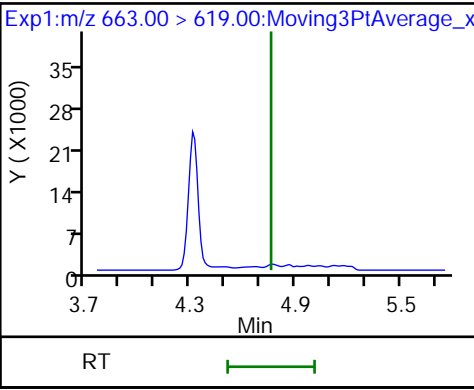
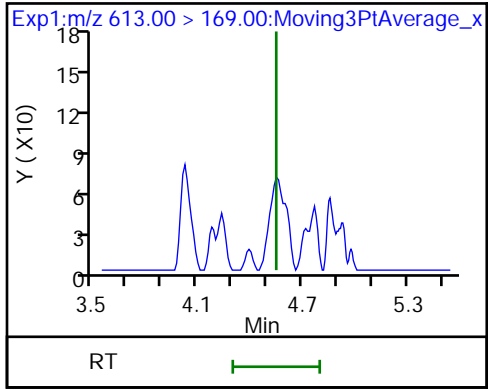
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

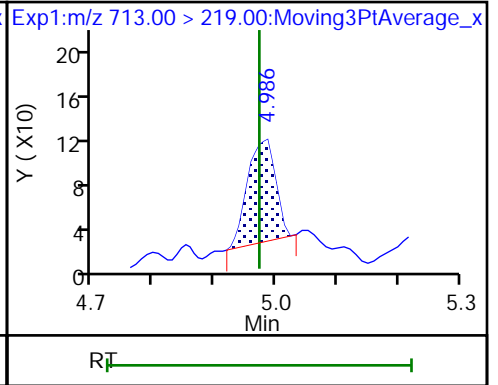
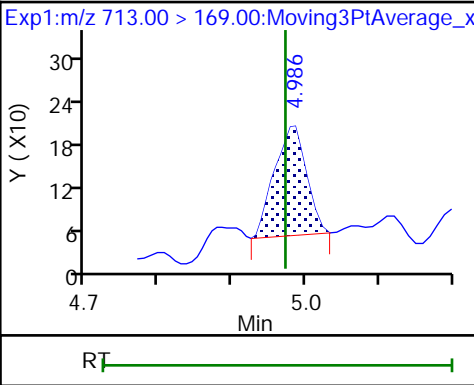
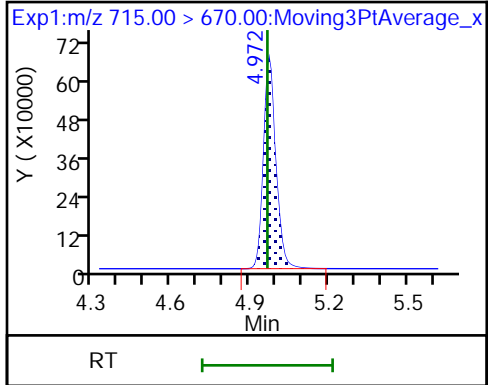
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

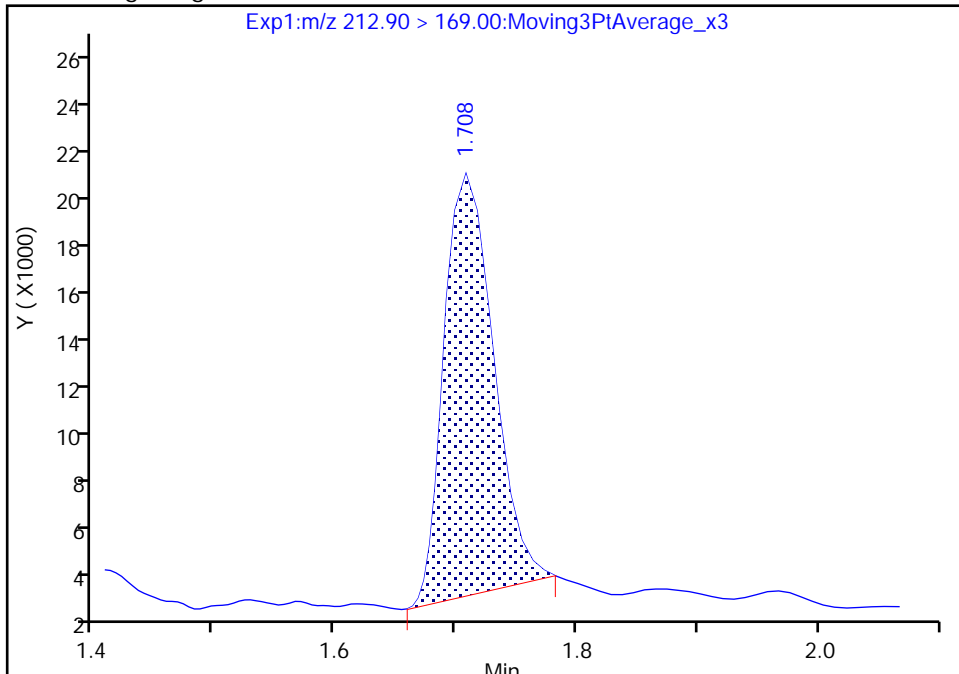
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

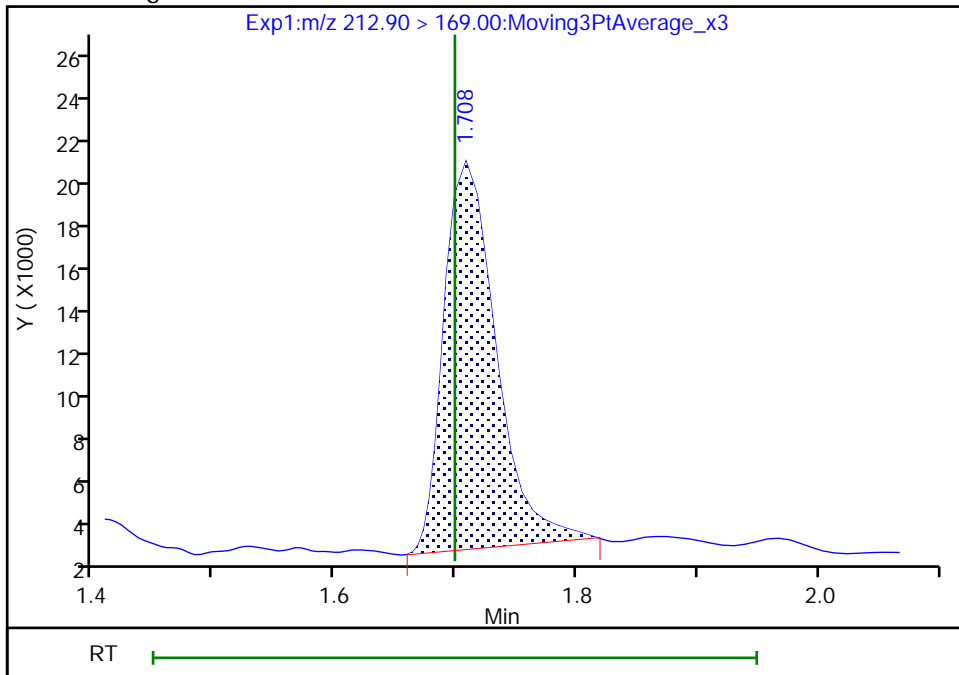
RT: 1.71  
Area: 49548  
Amount: 0.956379  
Amount Units: ng/ml

Processing Integration Results



RT: 1.71  
Area: 53174  
Amount: 1.026368  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:50:09  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

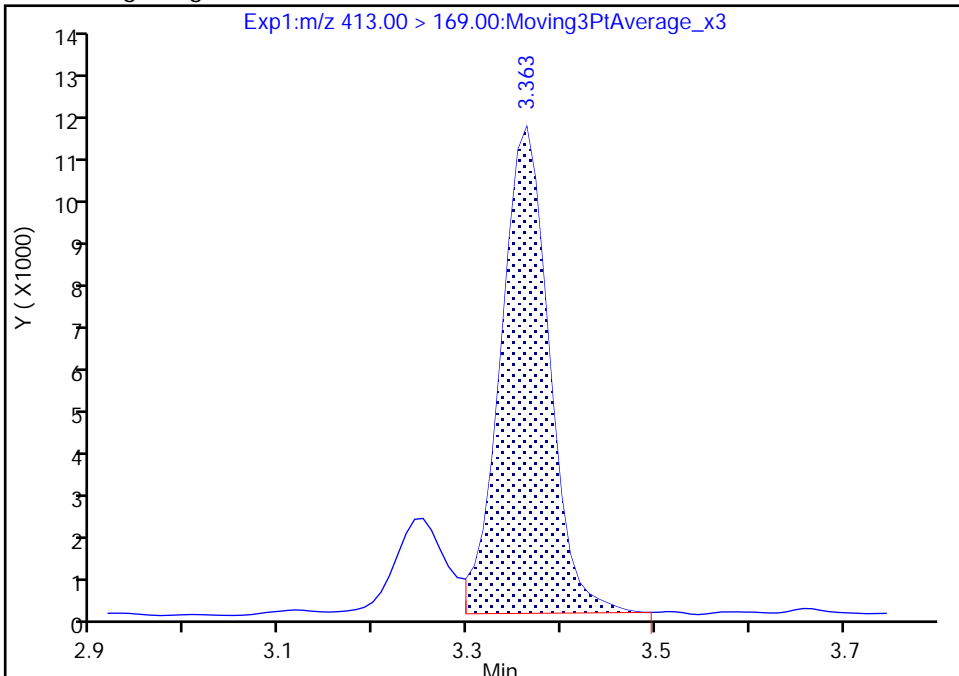
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

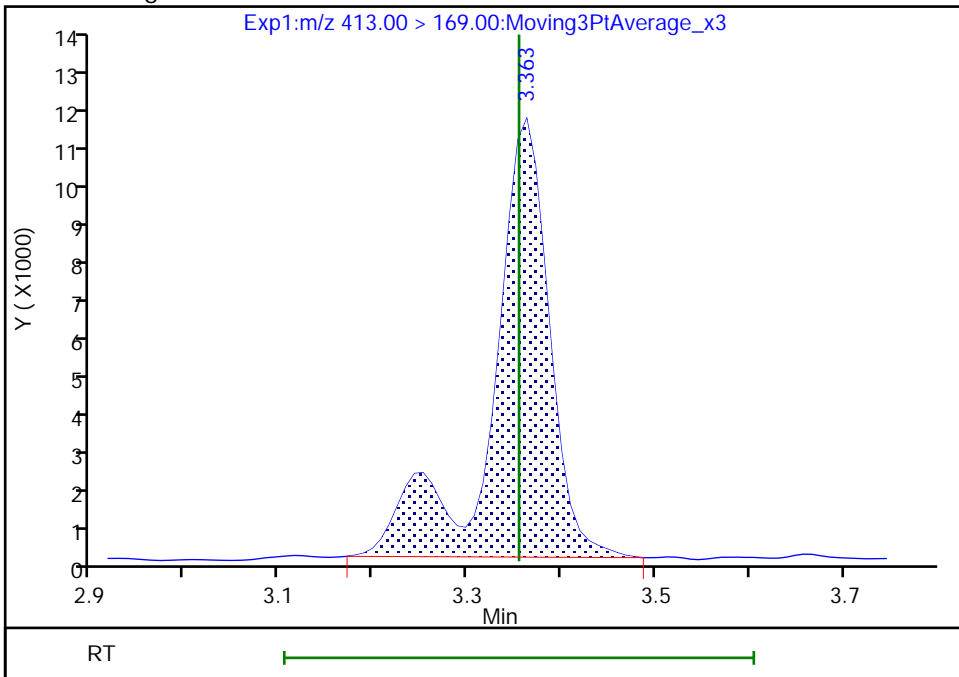
RT: 3.36  
Area: 39225  
Amount: 1.834653  
Amount Units: ng/ml

Processing Integration Results



RT: 3.36  
Area: 46557  
Amount: 1.834653  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:52:09  
Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

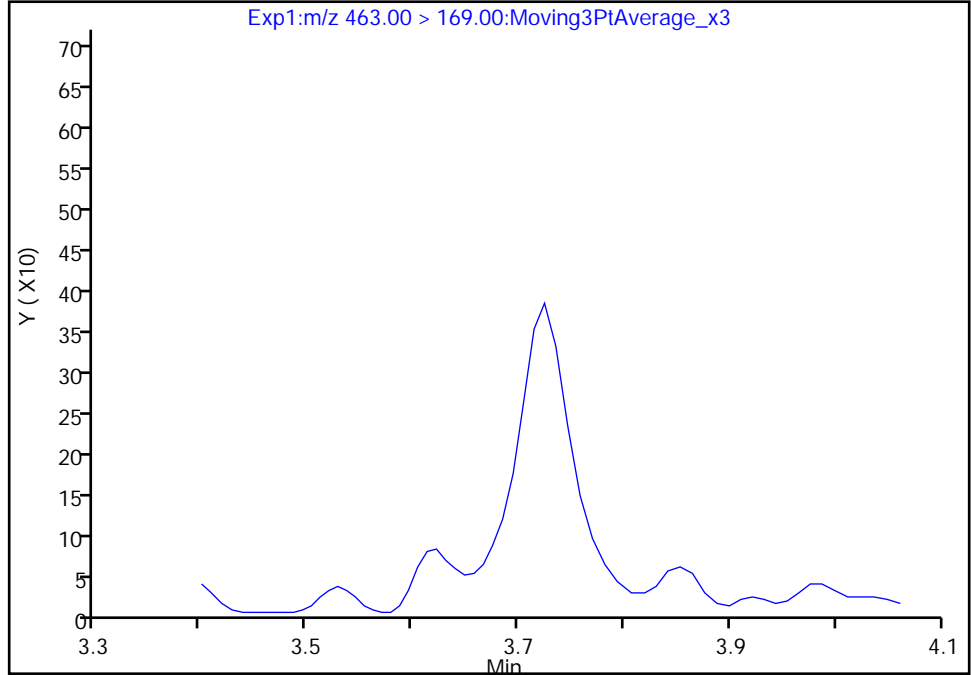
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

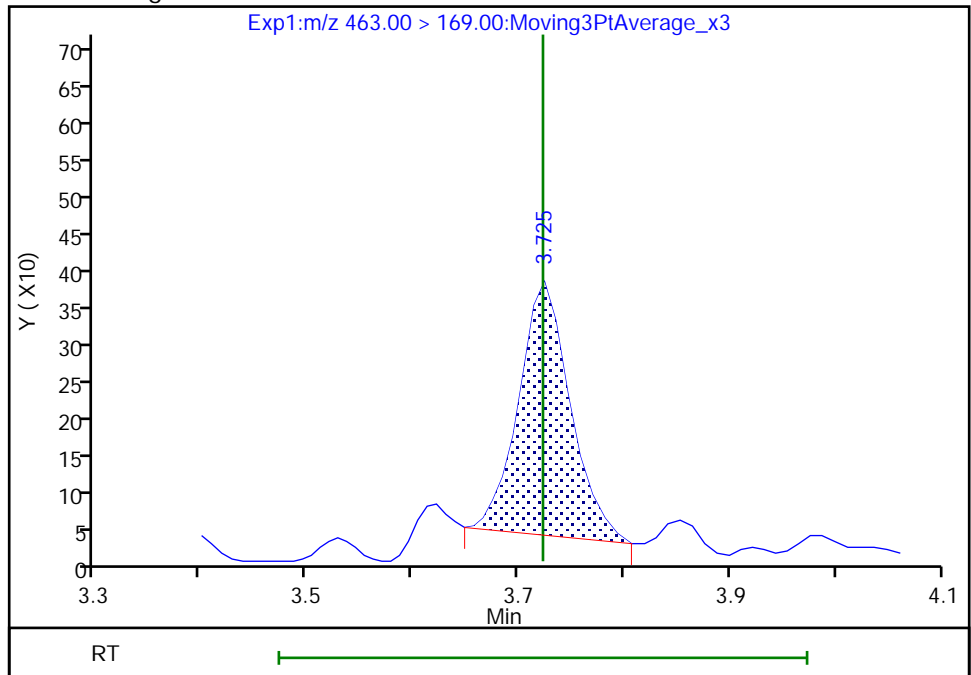
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.72  
Area: 1167  
Amount: 0.125737  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:52:54  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

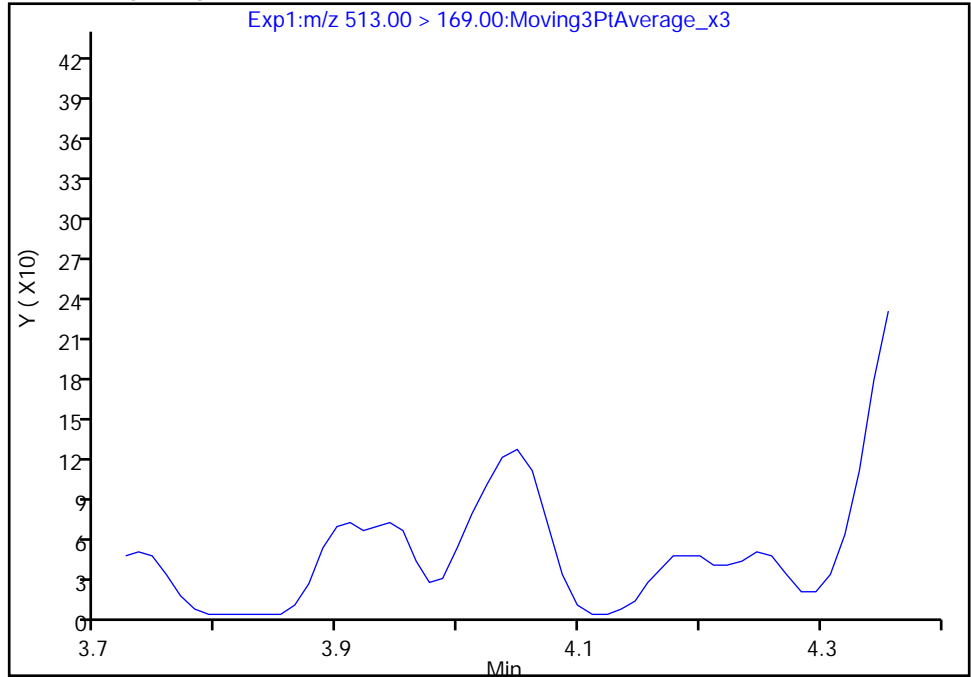
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Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

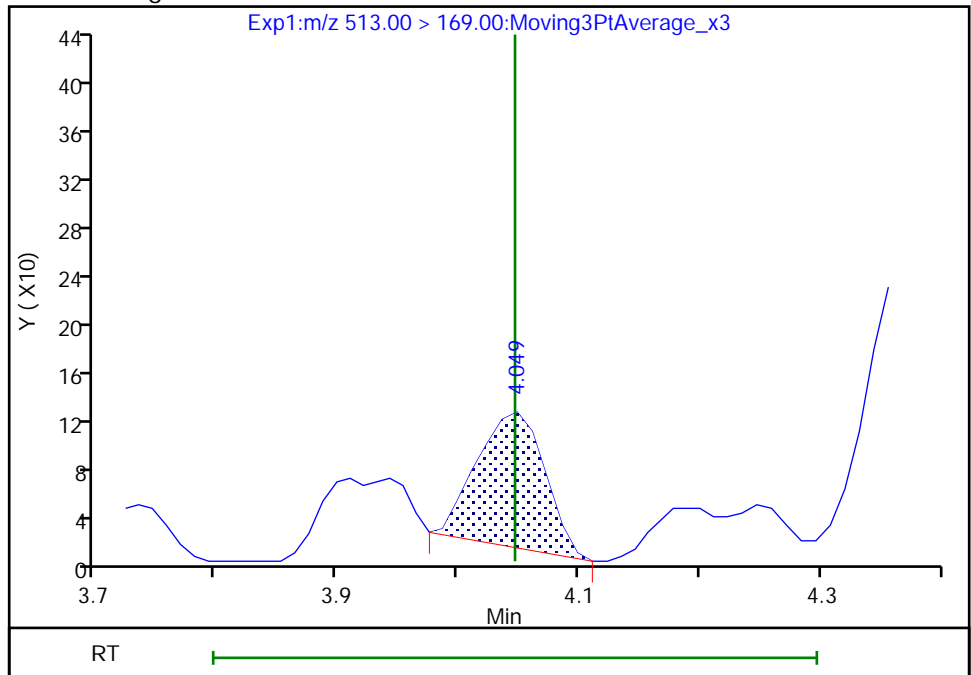
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.05  
Area: 436  
Amount: 0.072654  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:53:01  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

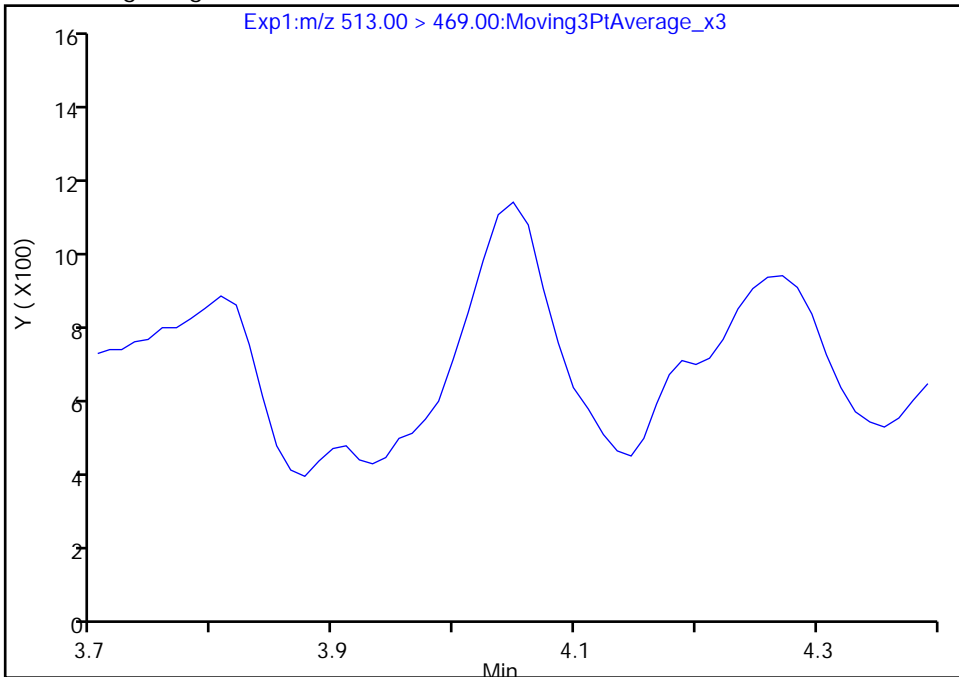
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

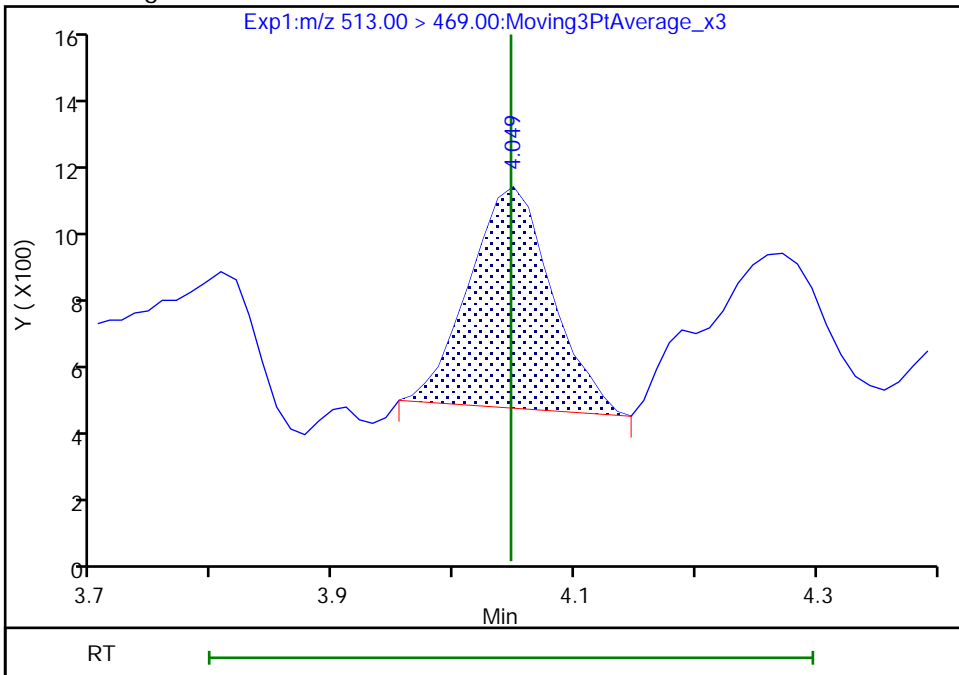
Not Detected  
Expected RT: 4.05

Processing Integration Results



RT: 4.05  
Area: 2970  
Amount: 0.072654  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

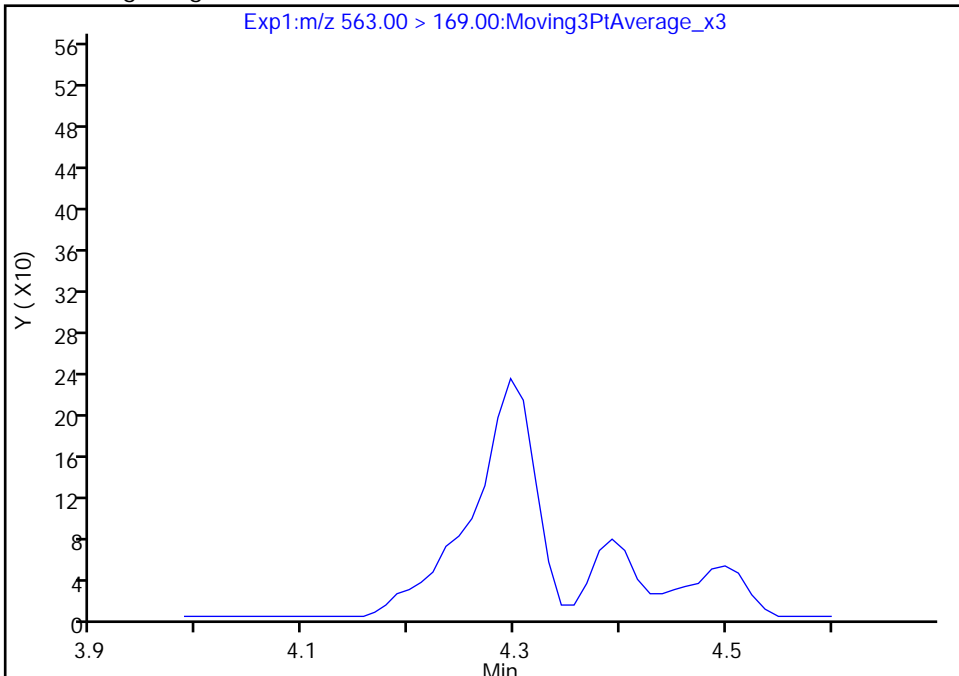
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

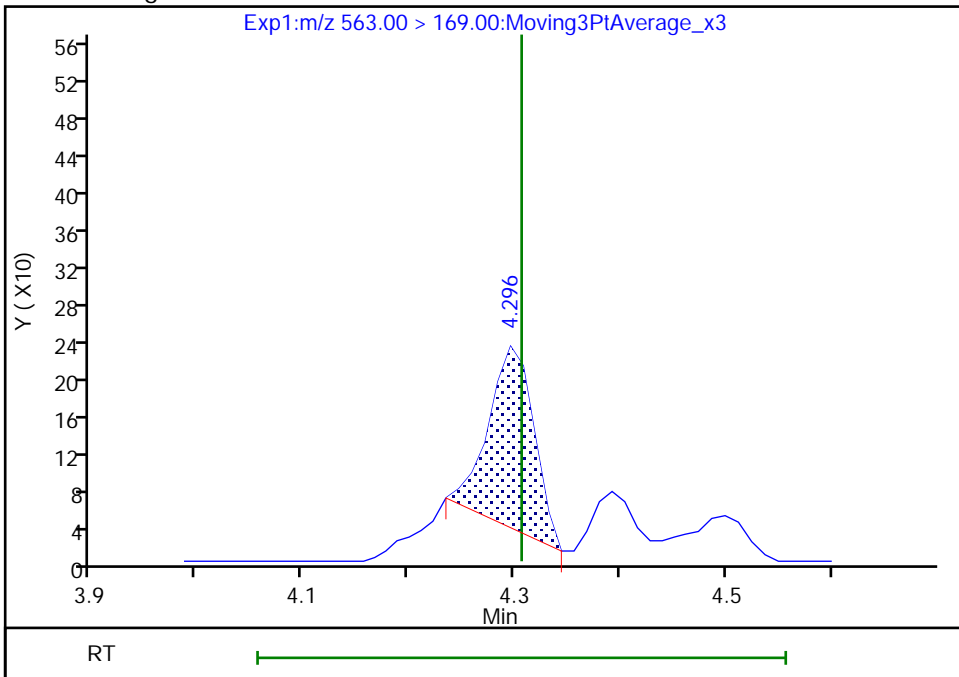
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.30  
Area: 582  
Amount: 0.122867  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:53:34  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

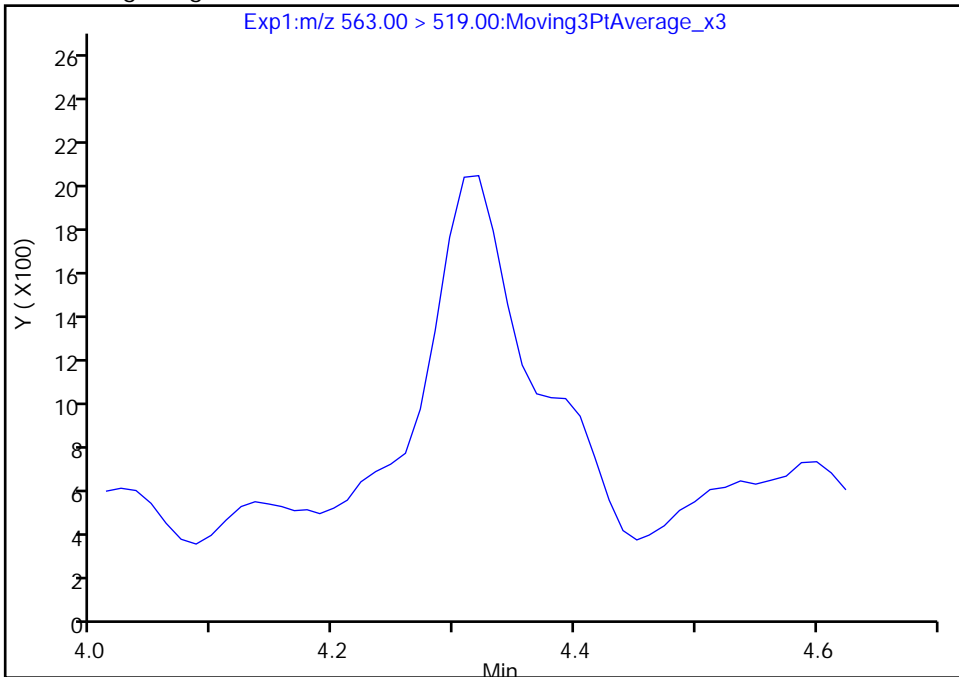
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

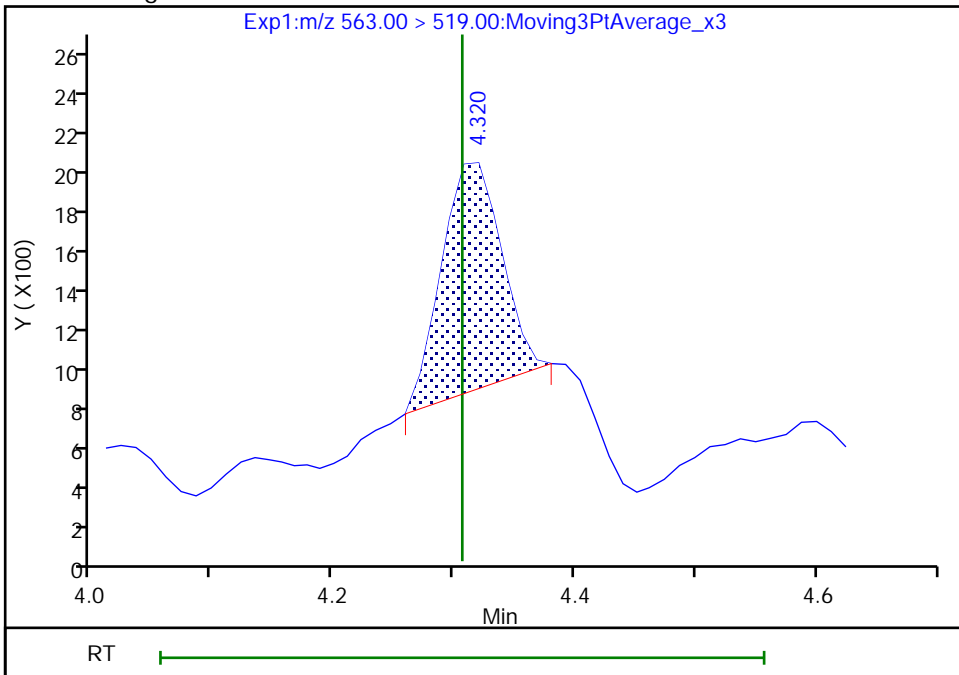
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 3802  
Amount: 0.122867  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

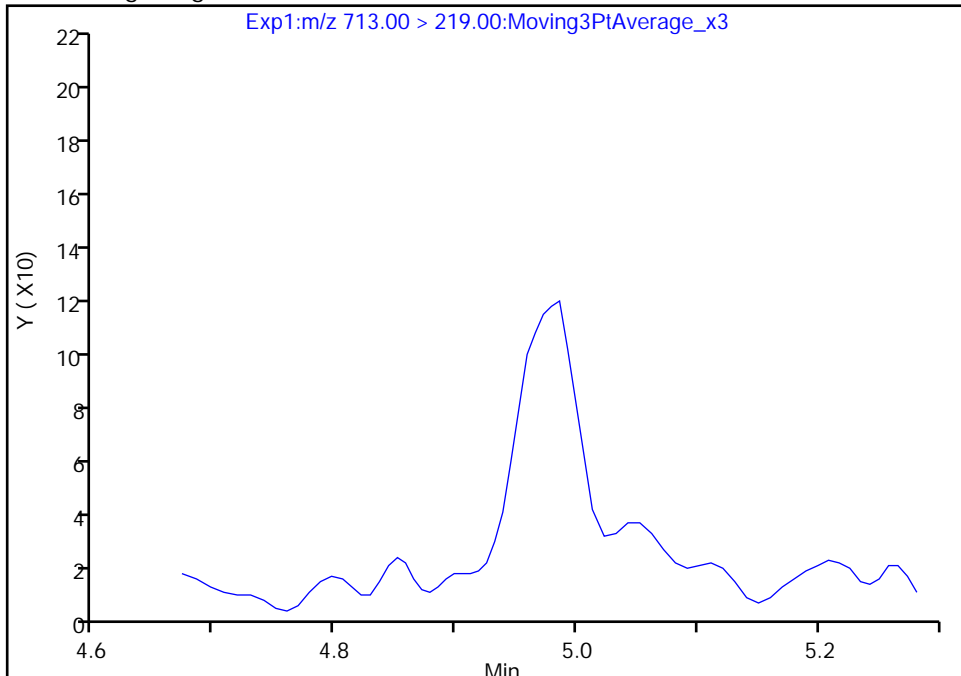
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

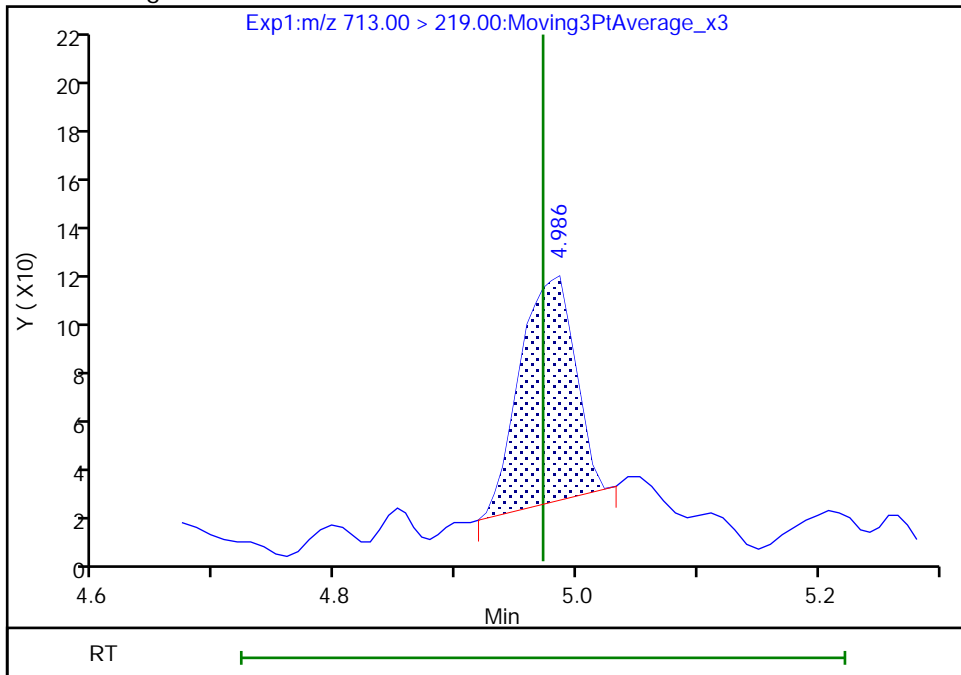
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.99  
Area: 295  
Amount: 0.082254  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:54:06  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

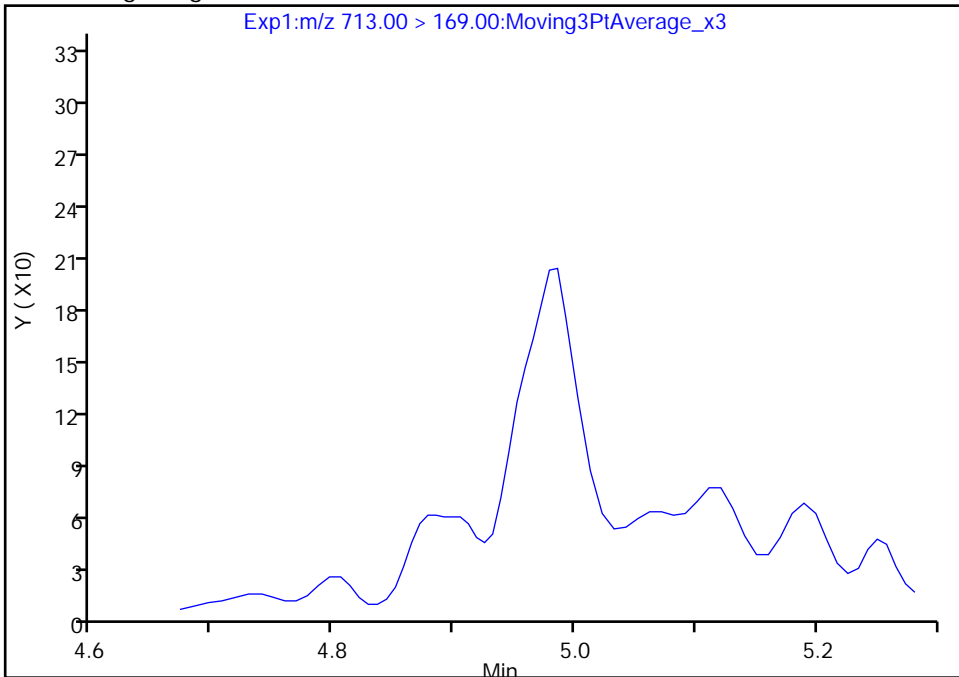
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

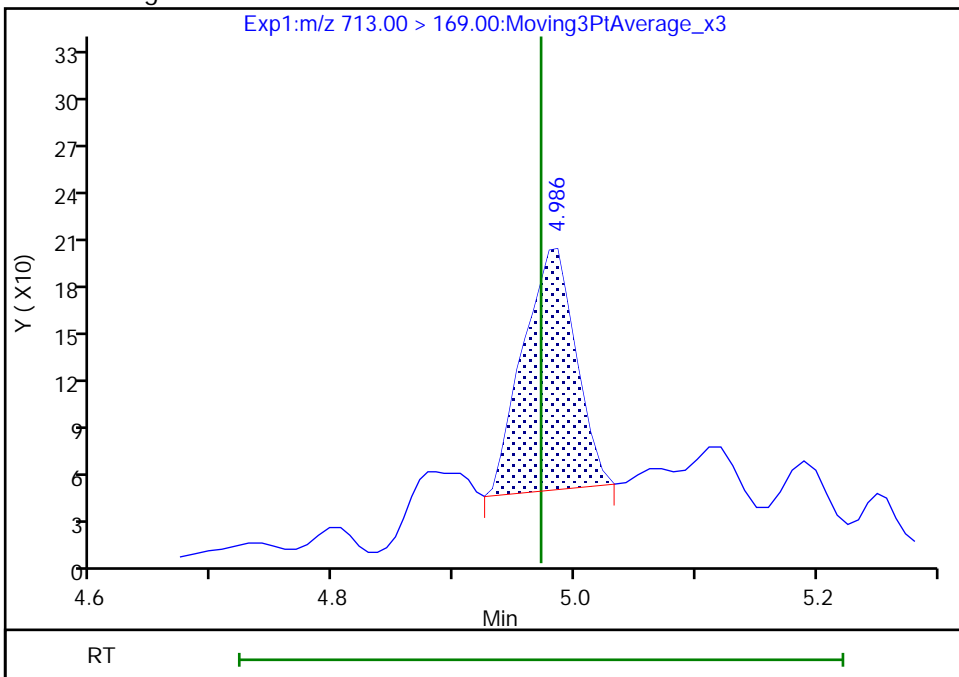
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.99  
Area: 470  
Amount: 0.082254  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

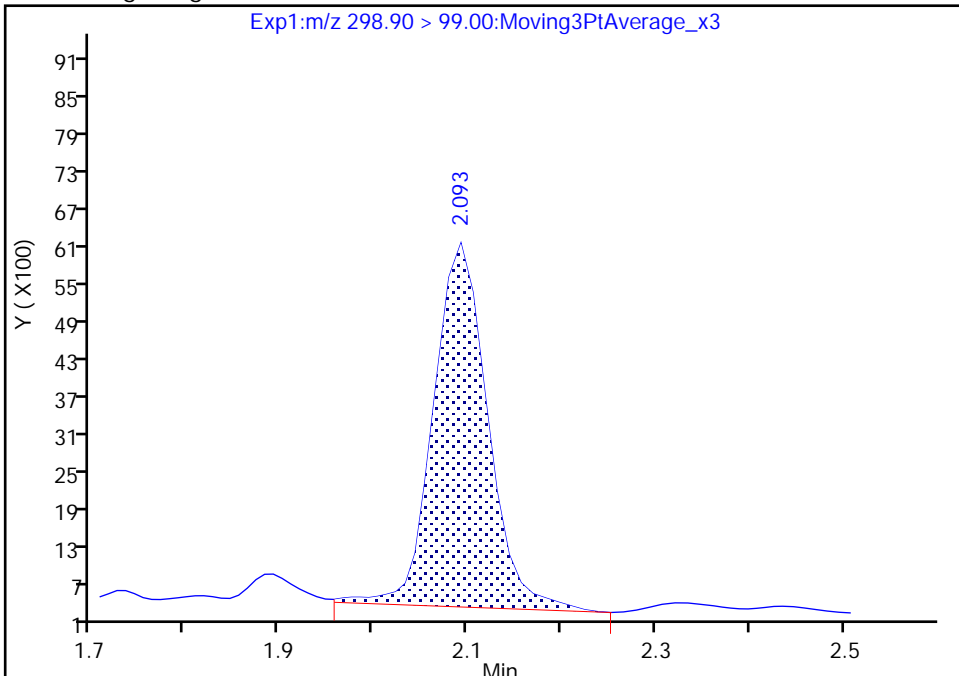
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

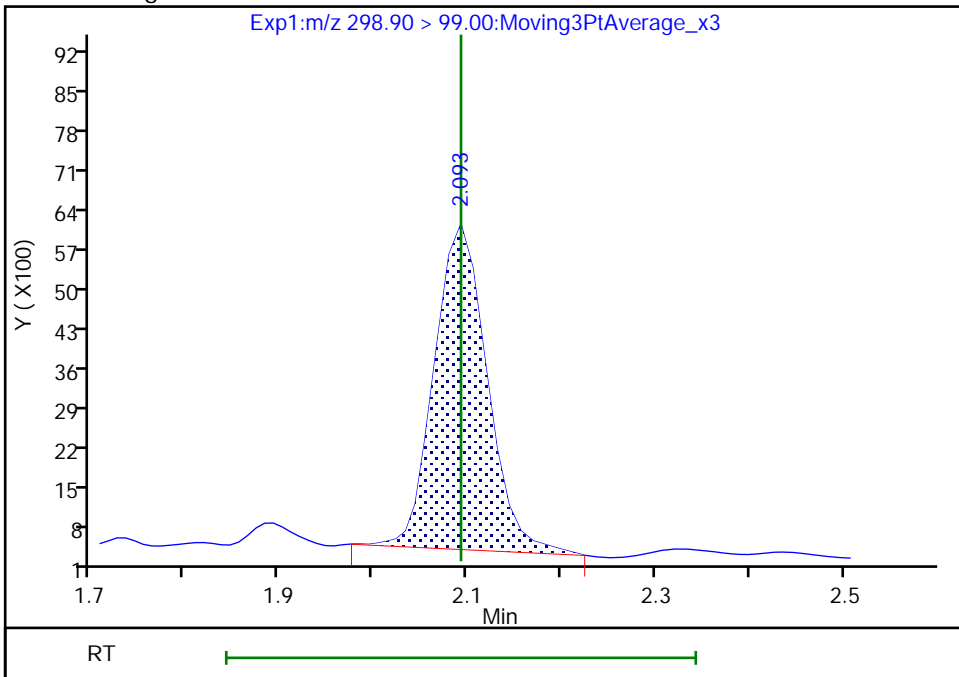
RT: 2.09  
Area: 23426  
Amount: 0.695327  
Amount Units: ng/ml

Processing Integration Results



RT: 2.09  
Area: 22511  
Amount: 0.695327  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:50:25  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

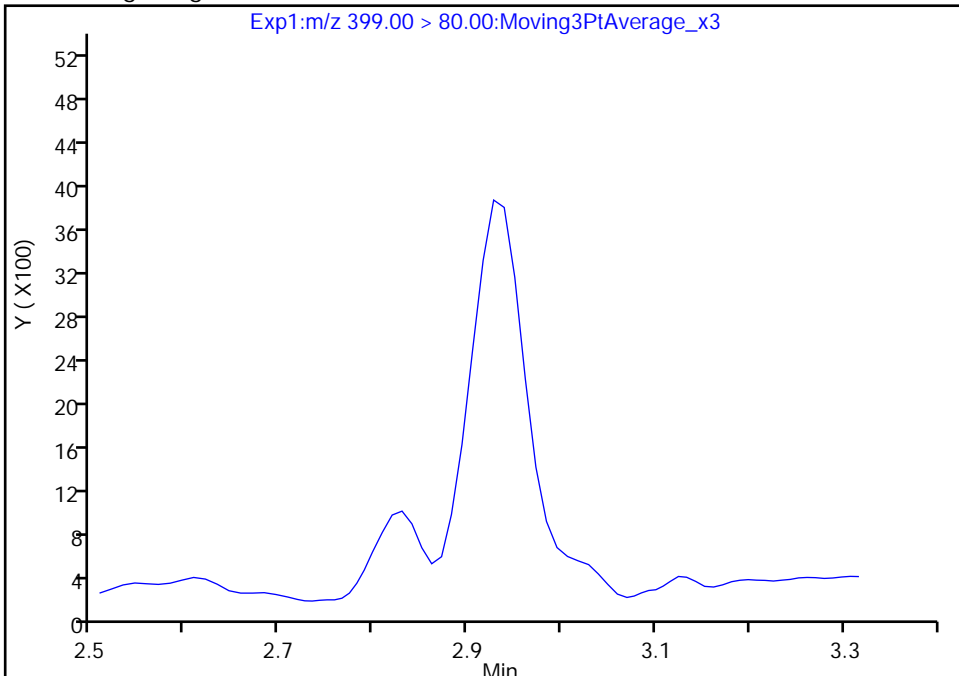
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

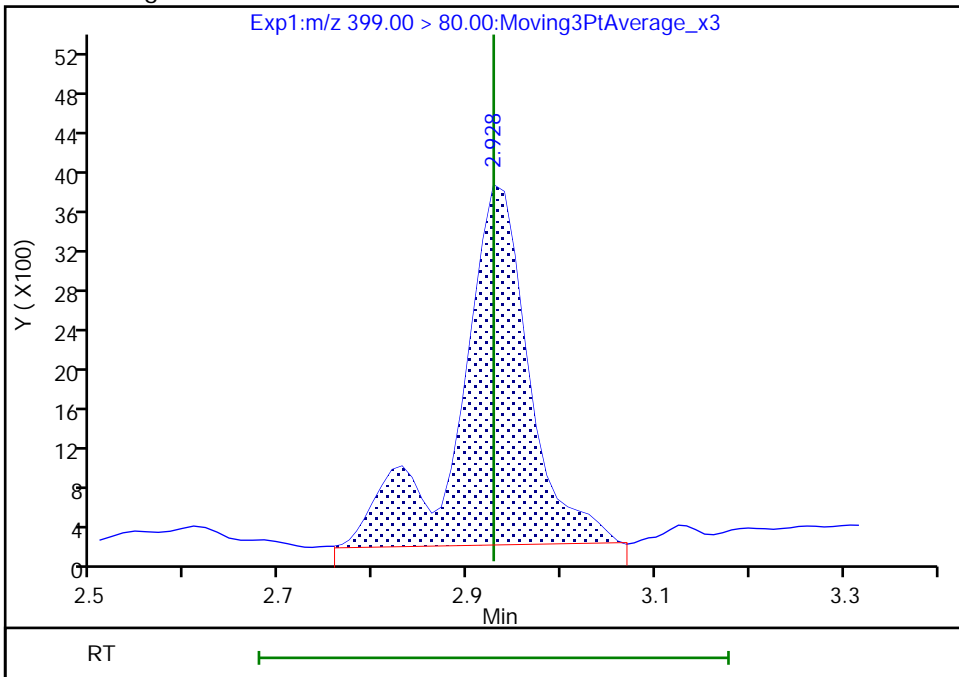
Not Detected  
Expected RT: 2.93

Processing Integration Results



RT: 2.93  
Area: 18934  
Amount: 0.403608  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:51:35  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

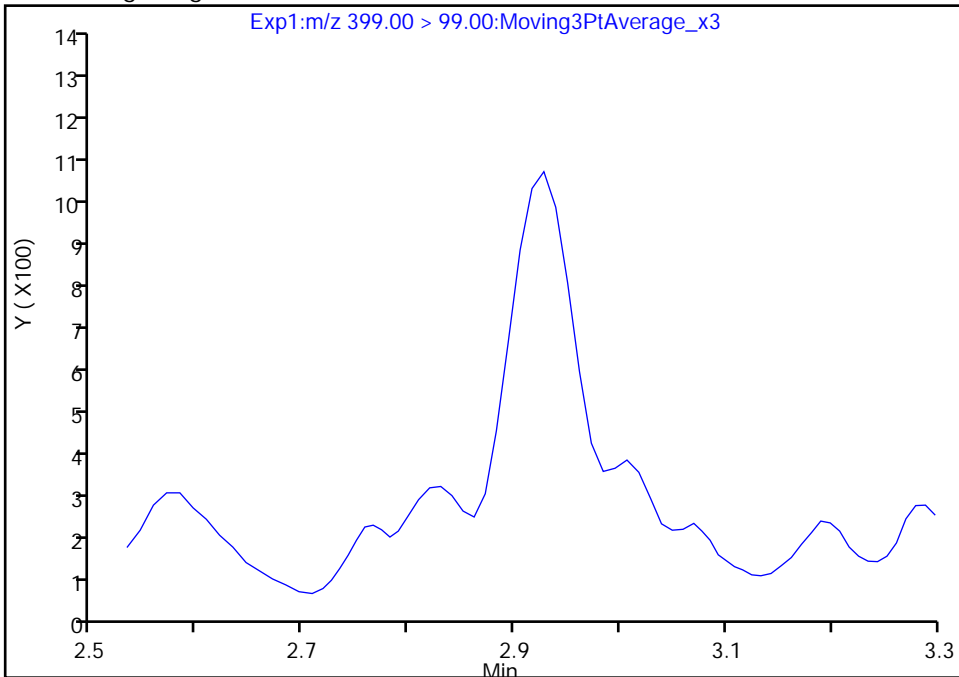
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

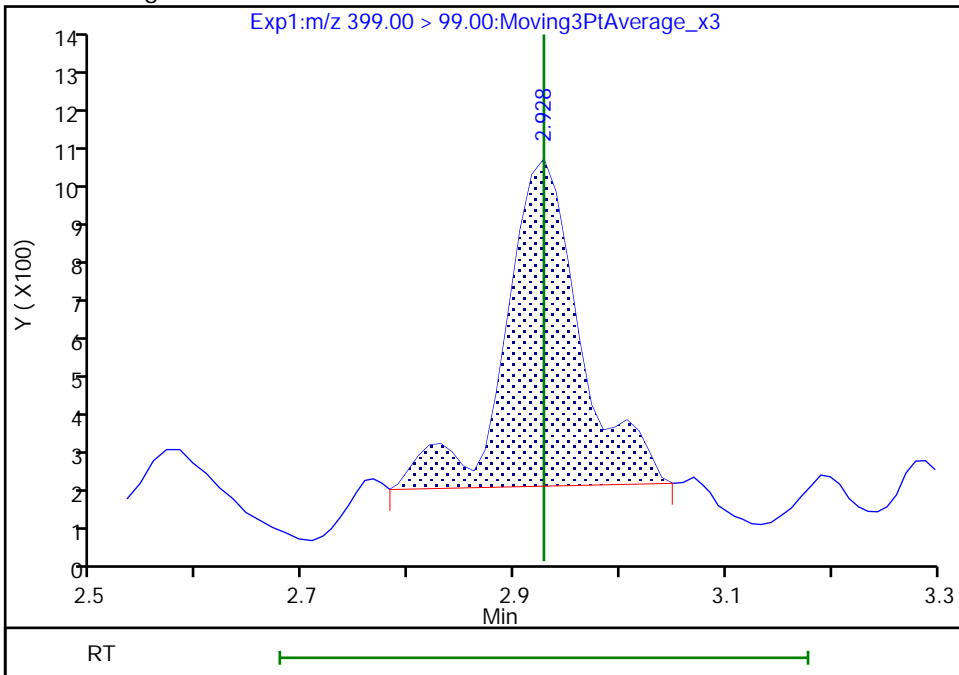
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 3938  
Amount: 0.403608  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

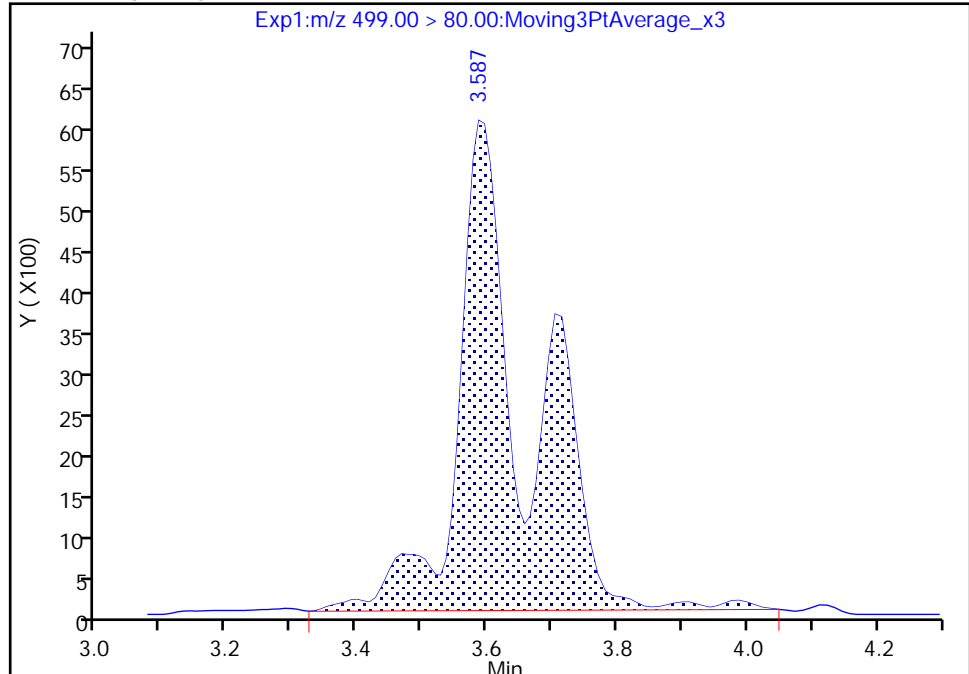
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

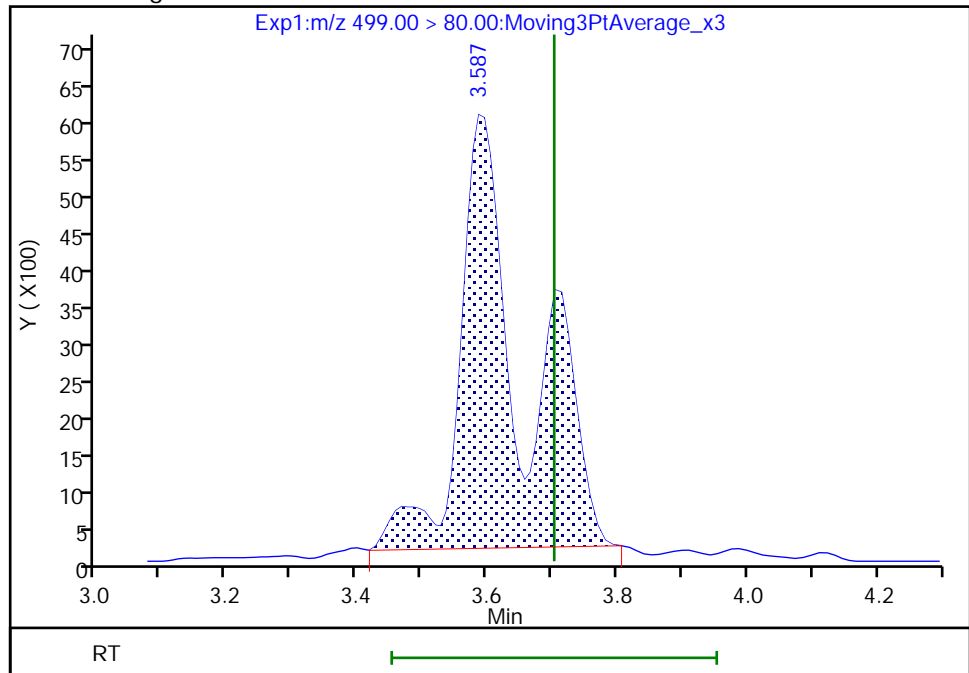
RT: 3.59  
Area: 44925  
Amount: 1.894395  
Amount Units: ng/ml

Processing Integration Results



RT: 3.59  
Area: 40434  
Amount: 1.705019  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:52:31  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

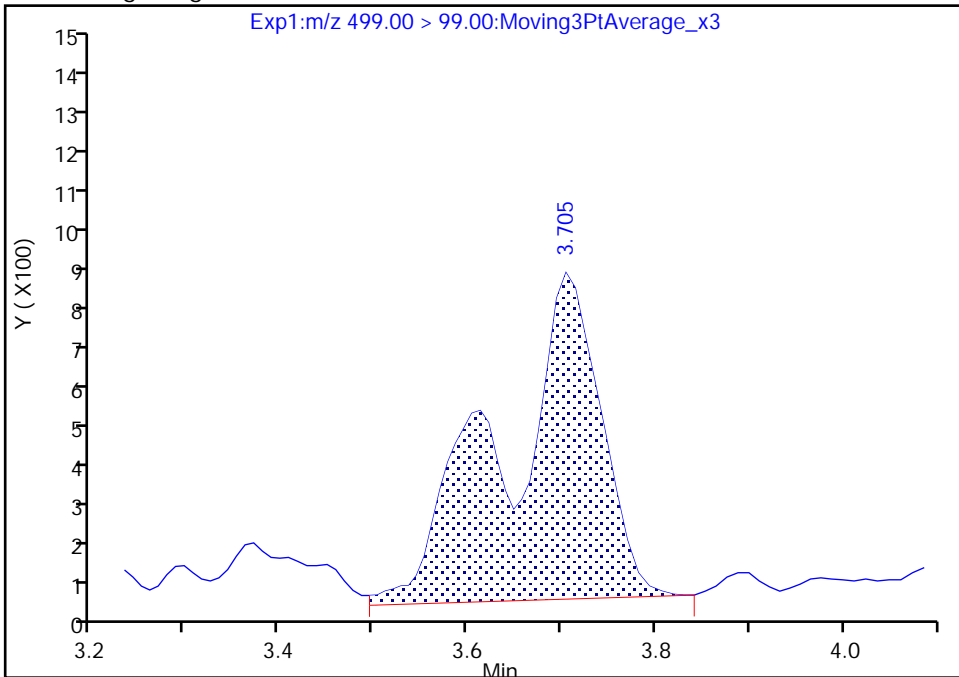
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

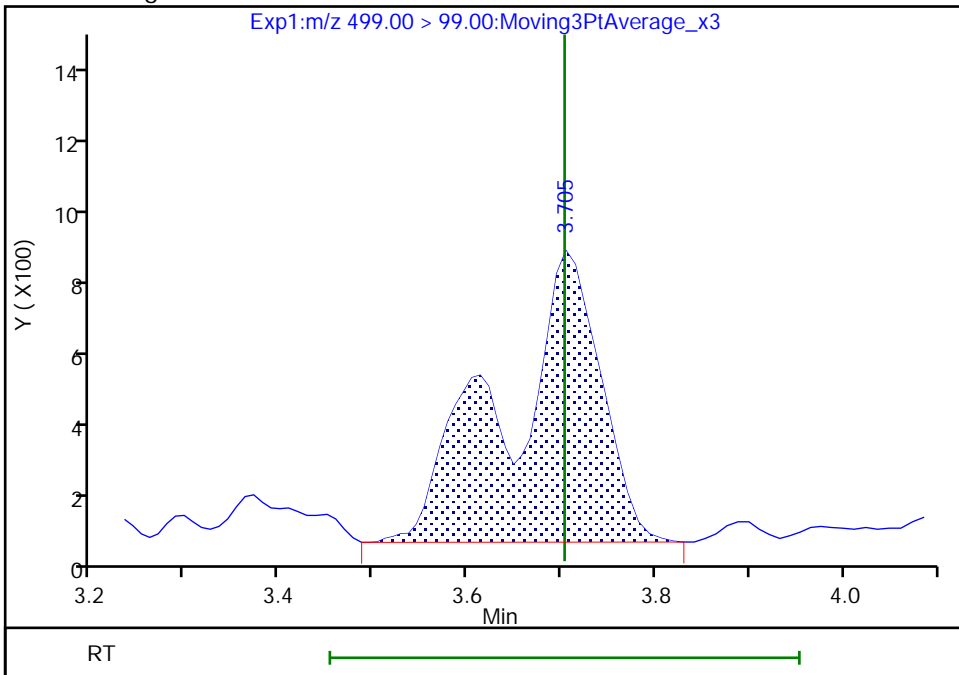
RT: 3.70  
Area: 6021  
Amount: 1.894395  
Amount Units: ng/ml

Processing Integration Results



RT: 3.70  
Area: 5761  
Amount: 1.705019  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:52:39

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

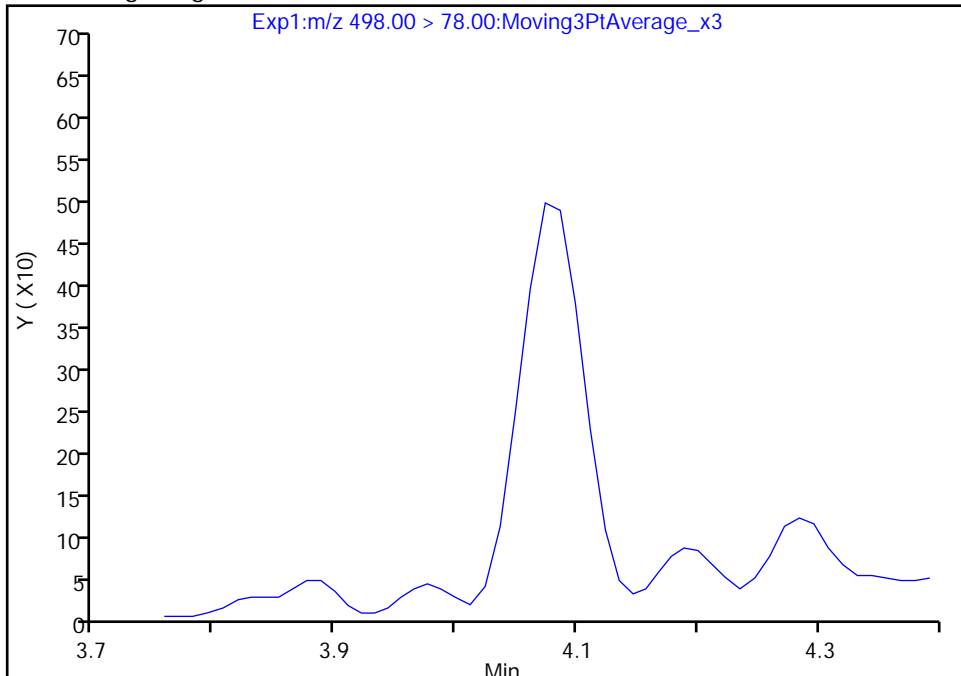
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

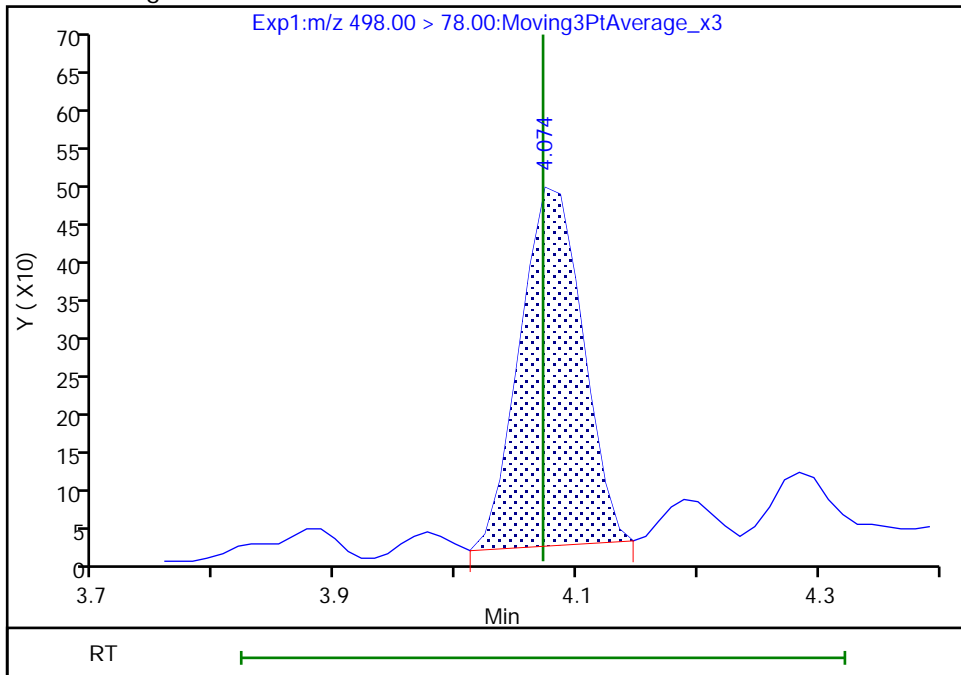
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.07  
Area: 1717  
Amount: 0.042617  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:53:18  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

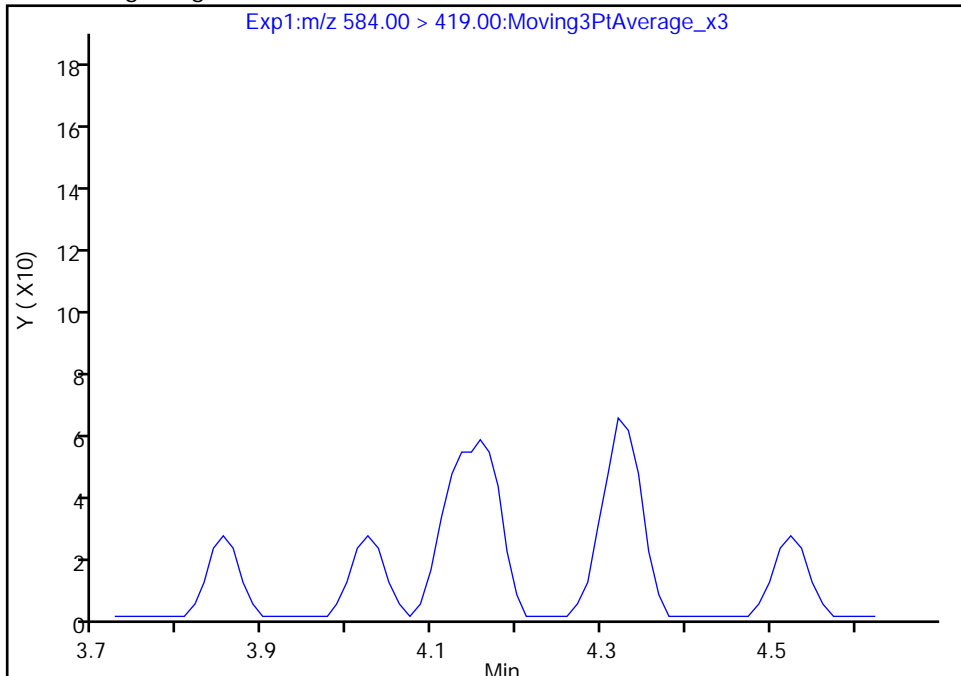
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E008.d  
Injection Date: 02-Aug-2019 04:45:30 Instrument ID: LC812  
Lims ID: 480-156213-F-5-A Lab Sample ID: 200-156213-5  
Client ID: 356023-MW12B 190  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 8  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6

Signal: 1

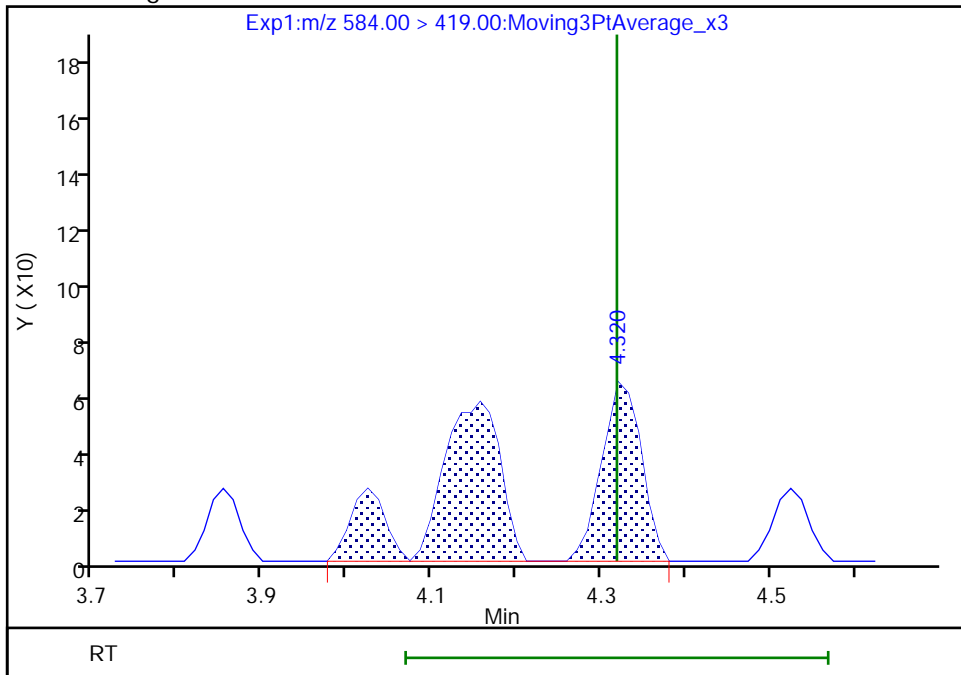
Not Detected  
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 539  
Amount: 0.196597  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:53:50  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11B Lab Sample ID: 480-156213-6  
 Matrix: Water Lab File ID: SC080119E009.d  
 Analysis Method: 537 (modified) Date Collected: 07/10/2019 11:37  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 305.3 (mL) Date Analyzed: 08/02/2019 04:53  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.6	0.82
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.6	0.52
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.62
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.75
335-67-1	Perfluorooctanoic acid (PFOA)	0.53	J	1.6	0.52
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.63
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.75
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.40
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.66
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.78
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.74
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.50
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.2	8.2
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.8
39108-34-4	8:2 FTS	ND		16	2.4

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11B Lab Sample ID: 480-156213-6  
 Matrix: Water Lab File ID: SC080119E009.d  
 Analysis Method: 537 (modified) Date Collected: 07/10/2019 11:37  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 305.3 (mL) Date Analyzed: 08/02/2019 04:53  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	85		25-150
STL00992	13C4 PFBA	93		25-150
STL01893	13C5 PFPeA	94		25-150
STL00993	13C2 PFHxA	97		50-150
STL01892	13C4 PFHpA	96		50-150
STL00990	13C4 PFOA	92		50-150
STL00995	13C5 PFNA	94		50-150
STL00996	13C2 PFDA	91		50-150
STL00997	13C2 PFUnA	88		50-150
STL00998	13C2 PFDoA	82		50-150
STL02116	13C2 PFTeDA	65		50-150
STL02337	13C3 PFBS	96		50-150
STL00994	18O2 PFHxS	97		50-150
STL00991	13C4 PFOS	94		50-150
STL02118	d3-NMeFOSAA	74		50-150
STL02117	d5-NEtFOSAA	71		50-150
STL02279	M2-6:2 FTS	108		25-150
STL02280	M2-8:2 FTS	97		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E009.d  
 Lims ID: 480-156213-F-6-A  
 Client ID: 356023-MW11B  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 04:53:34 ALS Bottle#: 2 Worklist Smp#: 9  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-6-A  
 Misc. Info.: 200-0037095-009 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 16:59:21  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.508	3476762	46.7	93.4	12039	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.708	1.699	0.009	1.000	18408	0.2872		3.2		M
D 3 13C5 PFPeA	267.90 > 223.00	2.068	2.054	0.014	0.615	3301998	47.2	94.4	7805	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.068	2.067	0.001	1.000	13713	0.2146		0.8		M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	3062152	44.6	95.9	615209	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.093	2.093	0.0	1.000	9822	0.1467	Target=1.90	15.2		M
298.90 > 99.00	2.093	2.093	0.0	1.000	6178		1.59(0.95-2.85)	6.6		
D 7 13C2 PFHxA	315.00 > 270.00	2.471	2.459	0.012	0.734	3379392	48.6	97.3	6401	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.471	2.459	0.012	1.000	16049	0.2306	Target=13.23	4.7		M
313.00 > 119.00	2.471	2.459	0.012	1.000	925		17.35(6.61-19.84)	1.6		M
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.870	1837059	45.7	96.5	7468	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.874	3278236	48.2	96.3	8592	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.928	2.928	0.0	1.000	6633	0.1296	Target=3.37	9.7		M
399.00 > 99.00	2.928	2.928	0.0	1.000	3091		2.15(1.69-5.06)	4.2		M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.939	2.928	0.011	1.000	5179	0.0843	Target=3.76	1.7		M
363.00 > 169.00	2.939	2.928	0.011	1.000	2077		2.49(1.88-5.65)	9.0		M



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.346	3.335	0.011	0.995	429500	51.3		108	1243	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.355	3.336	0.019	1.003	9057	0.5840			19.5	M
D 14 13C4 PFOA										
417.00 > 372.00	3.364	3.344	0.020	1.000	3302450	46.0		91.9	8591	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.364	3.355	0.009	1.000	23260	0.3236	Target=2.84		2.9	M
413.00 > 169.00	3.364	3.355	0.009	1.000	9333		2.49(1.42-4.25)		29.3	M
* 62 13C2 PFOA										
415.00 > 370.00	3.364	3.355	0.009		3951300	50.0			10455	
D 18 13C4 PFOS										
503.00 > 80.00	3.713	3.695	0.018	1.104	1498833	44.7		93.5	4463	
D 19 13C5 PFNA										
468.00 > 423.00	3.734	3.715	0.019	1.110	3079265	47.0		93.9	12475	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.734	3.723	0.011	1.000	2515	0.0451	Target=8.15		1.0	M
463.00 > 169.00	3.745	3.723	0.022	1.003	418		6.02(4.08-12.23)		5.4	M
D 23 13C2 PFDA										
515.00 > 470.00	4.047	4.036	0.011	1.203	2393235	45.6		91.3	10699	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.060	4.036	0.024	1.207	359154	46.5		97.0	830	
D 21 13C8 FOSA										
506.00 > 78.00	4.072	4.061	0.011	1.210	2554579	42.4		84.8	11388	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.072	4.072	0.0	1.000	2675	0.0574			27.5	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.178	0.009	1.245	246703	36.8		73.7	2644	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.284	2098448	43.9		87.9	10232	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.307	4.307	0.0	0.997	4602	0.1278	Target=7.95		1.8	
563.00 > 169.00	4.307	4.307	0.0	0.997	648		7.10(3.98-11.93)		5.1	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.308	0.011	1.284	265689	35.6		71.2	950	
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.537	0.012	1.352	2095830	40.8		81.5	6627	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.965	0.014	1.480	2311050	32.6		65.3	7874	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.972	4.972	0.0	0.999	630	0.1024	Target=1.02		5.2	R
713.00 > 219.00	4.972	4.972	0.0	0.999	404		1.56(0.51-1.54)		9.0	M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E009.d

Injection Date: 02-Aug-2019 04:53:34

Instrument ID: LC812

Lims ID: 480-156213-F-6-A

Lab Sample ID: 200-156213-6

Client ID: 356023-MW11B

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 9

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

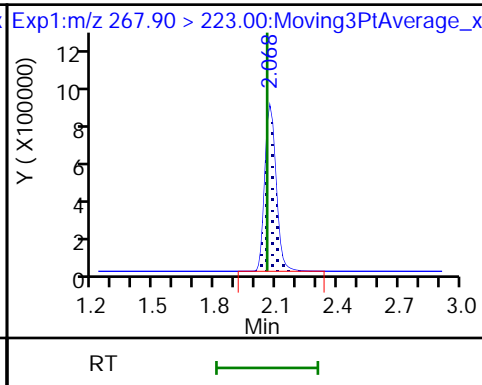
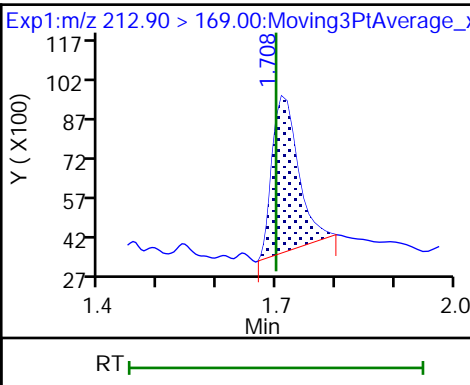
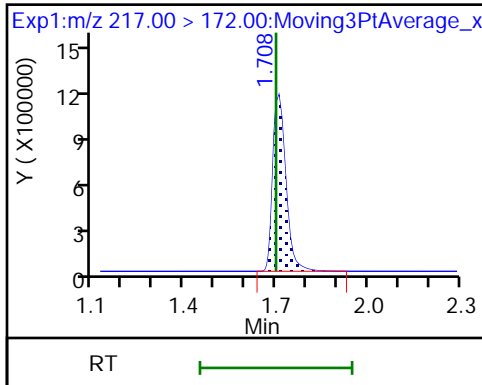
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

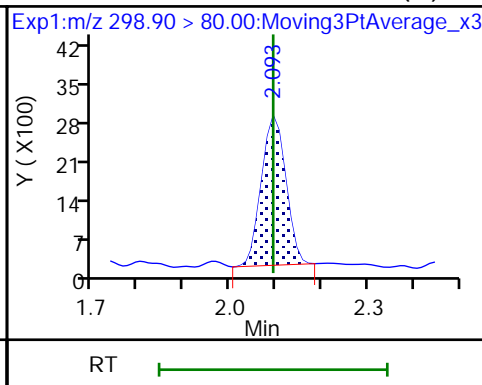
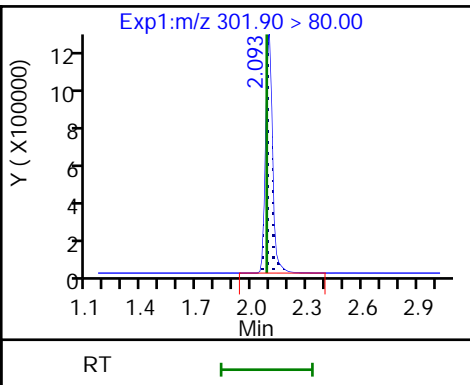
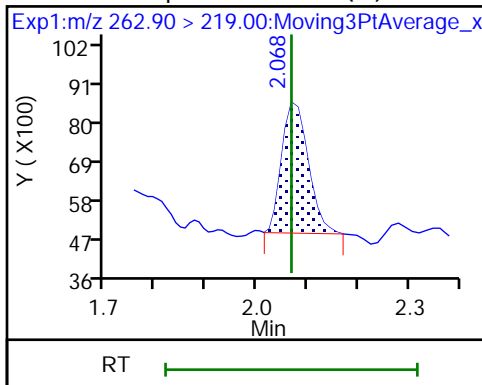
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

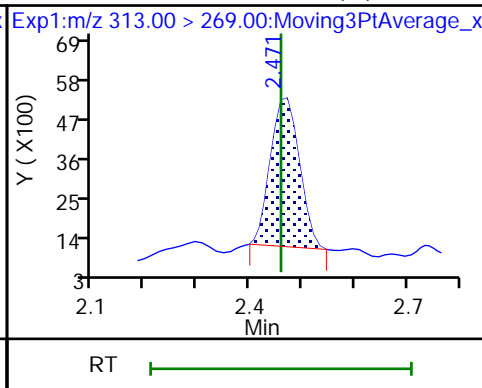
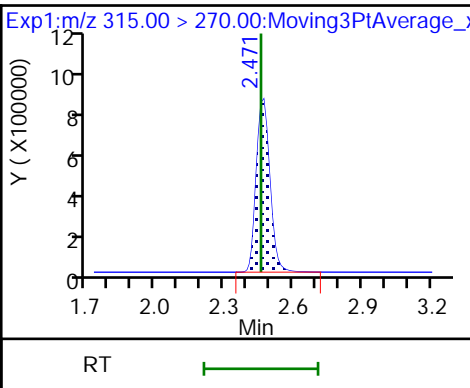
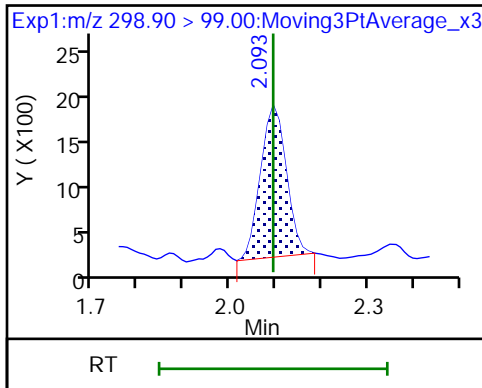
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

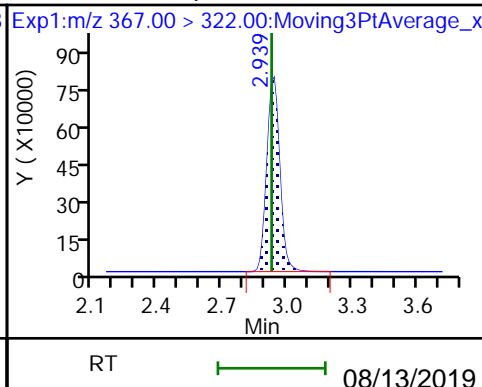
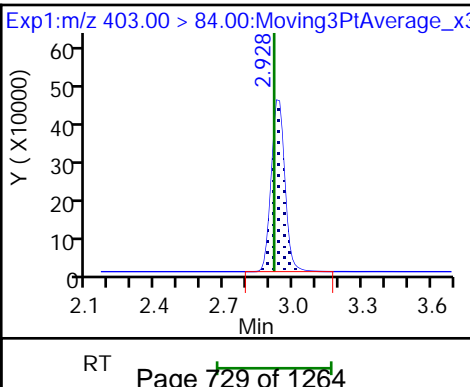
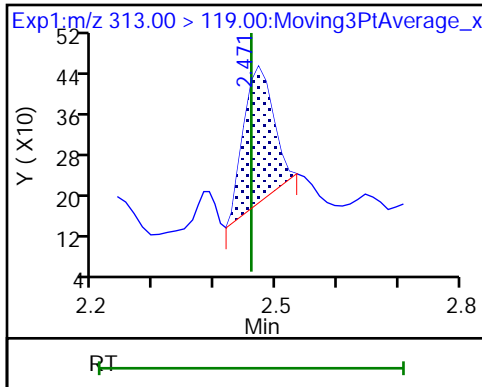
6 Perfluorohexanoic acid (M)

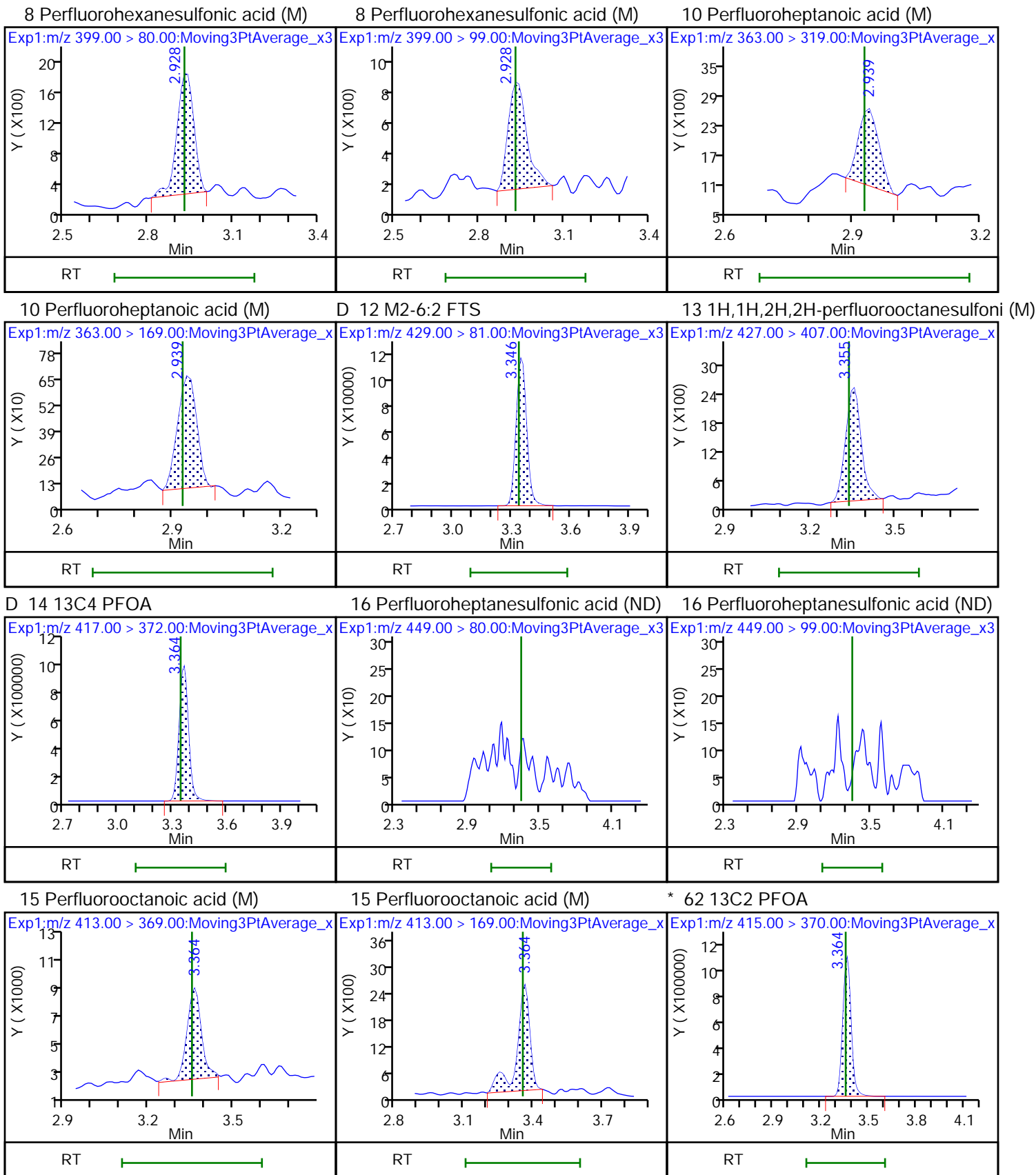


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

D 9 13C4 PFHpA

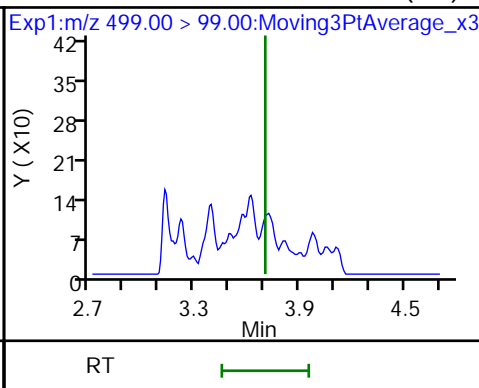
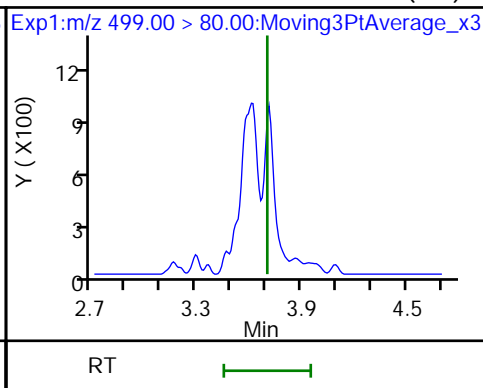
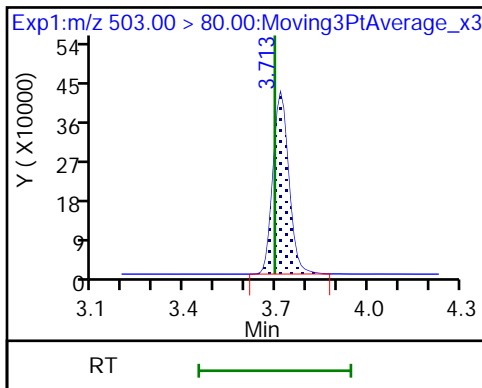




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (ND)

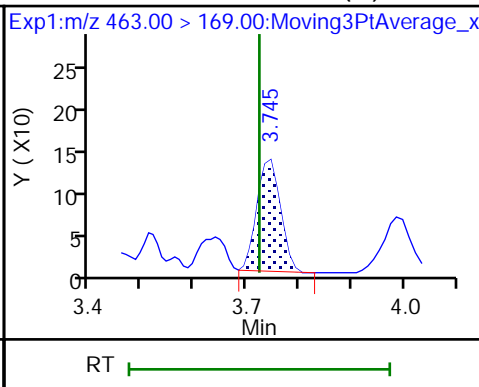
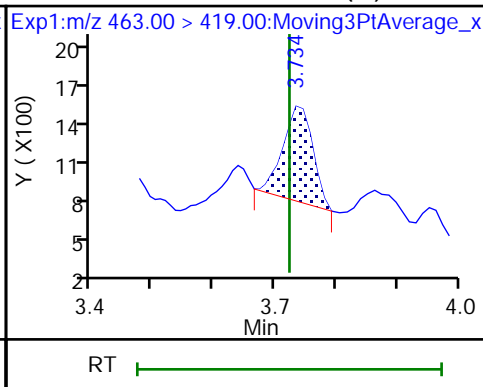
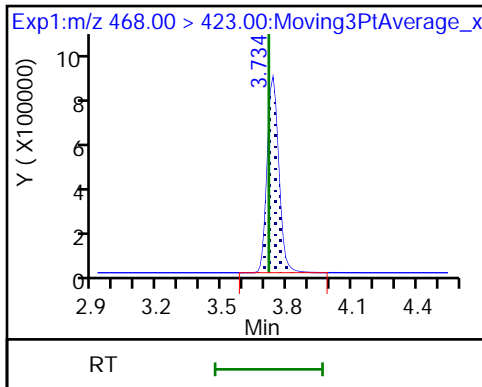
17 Perfluorooctanesulfonic acid (ND)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

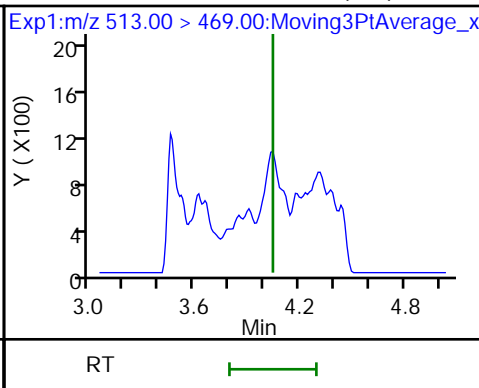
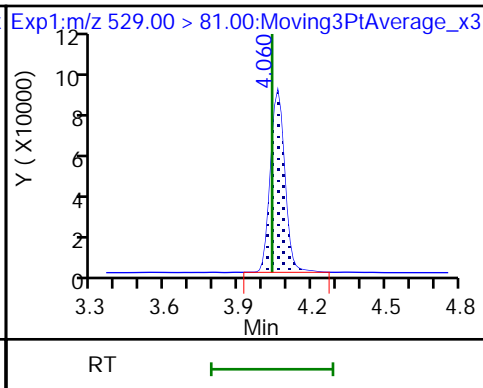
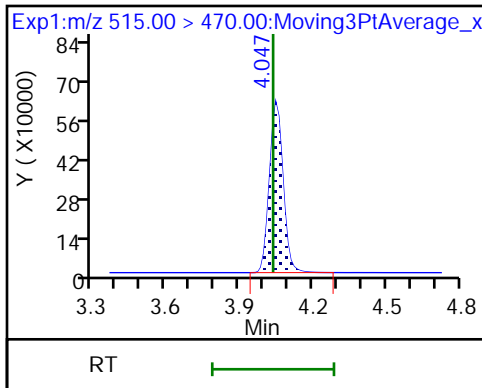
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

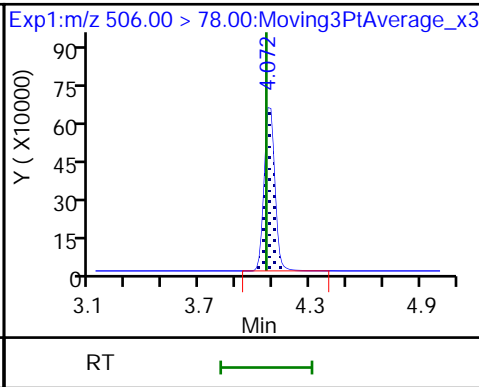
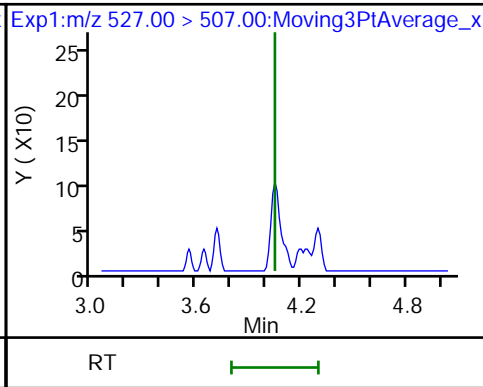
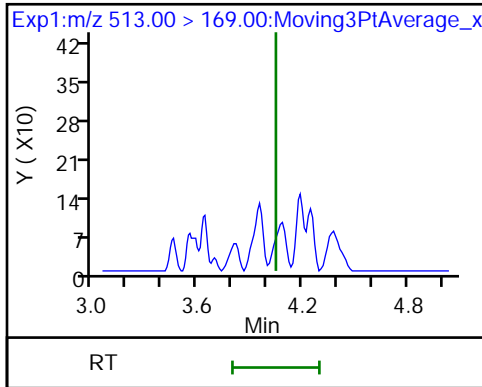
24 Perfluorodecanoic acid (ND)



24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (ND)

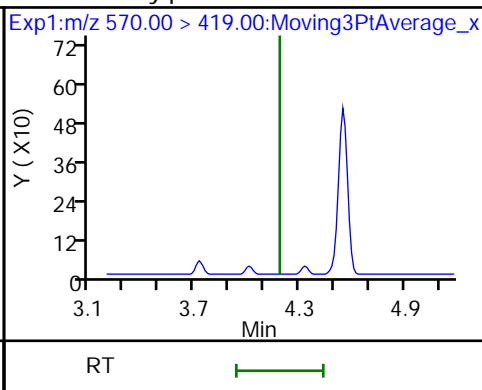
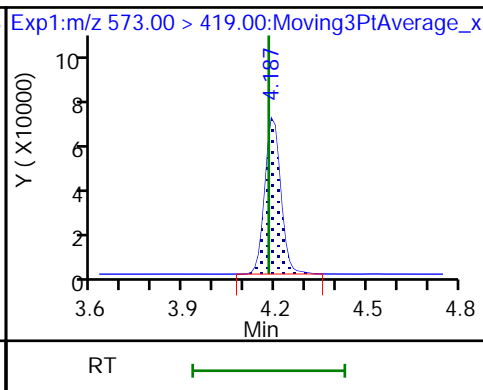
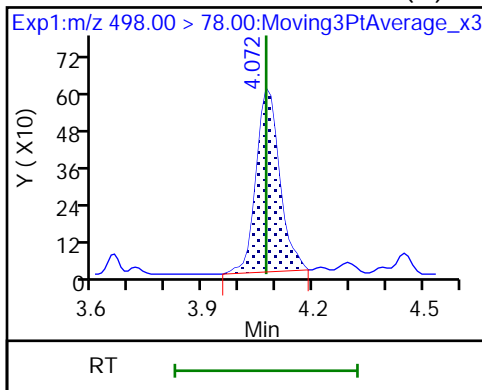
(ND) 3C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

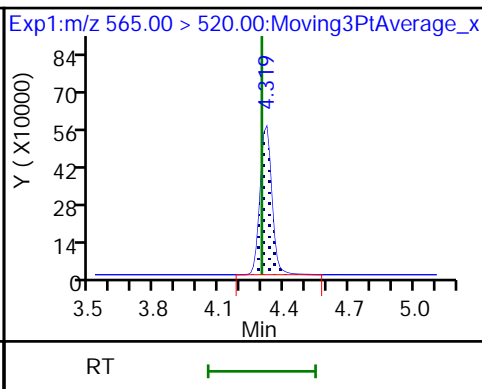
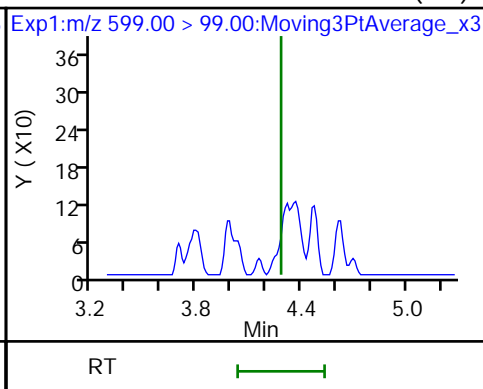
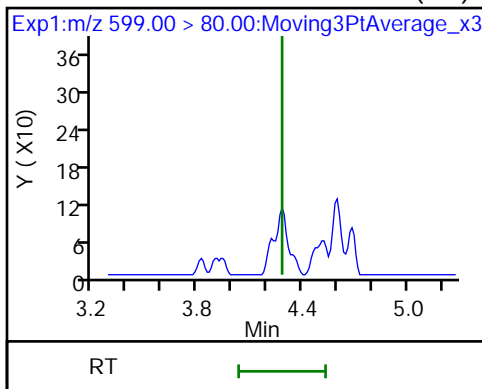
28 N-methylperfluorooctanesulfonamido (ND)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

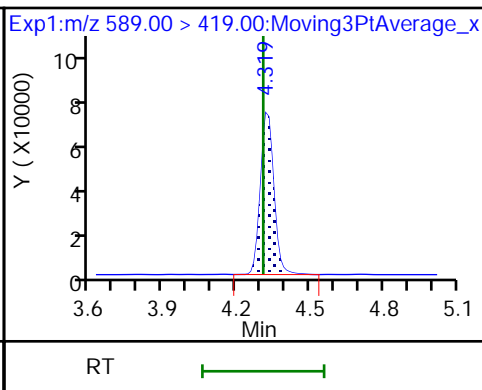
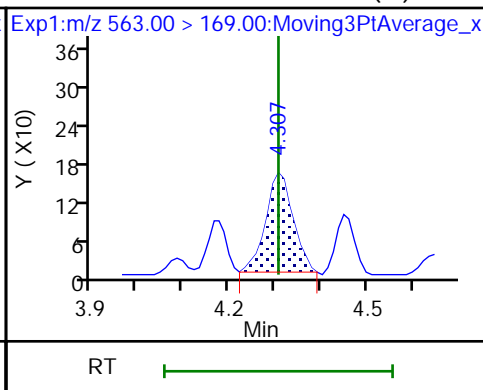
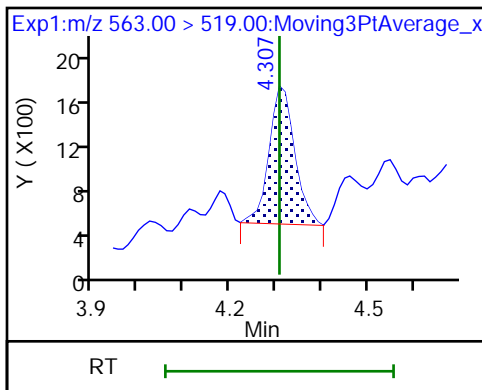
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

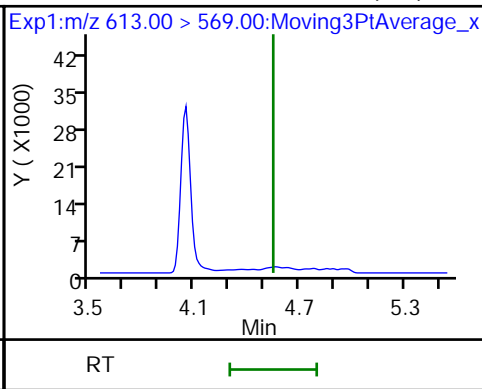
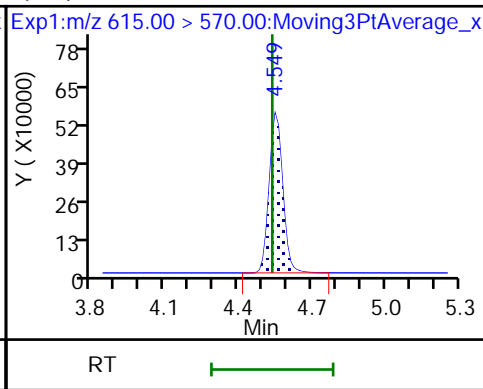
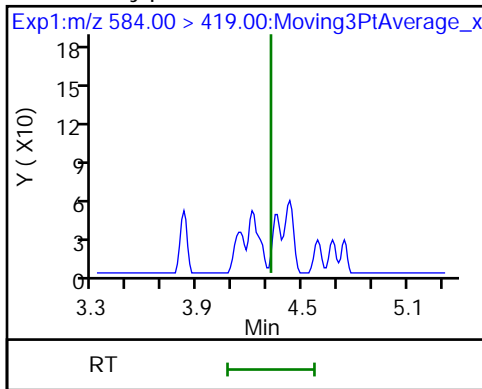
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (ND)

D 36 13C2 PFDoA

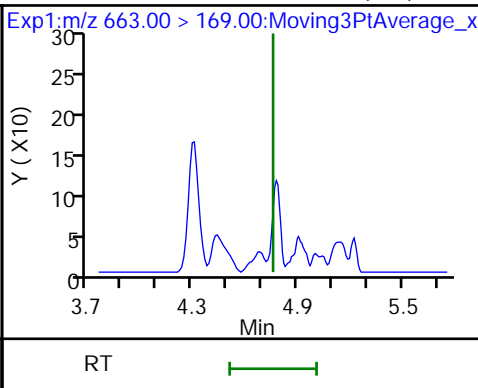
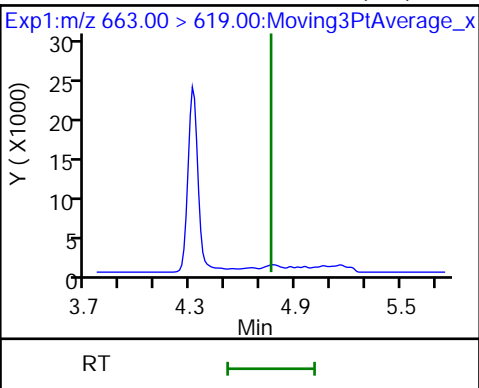
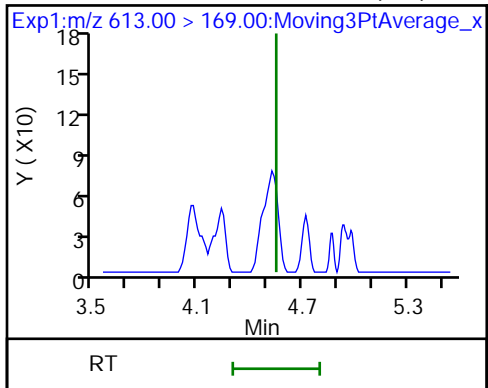
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

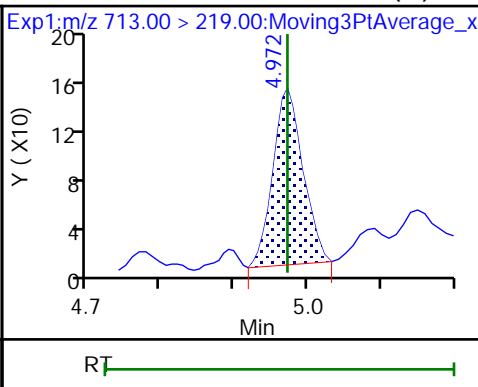
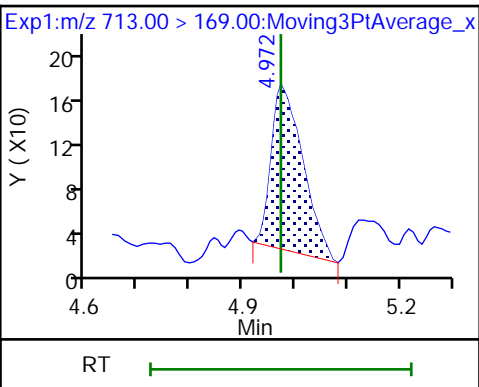
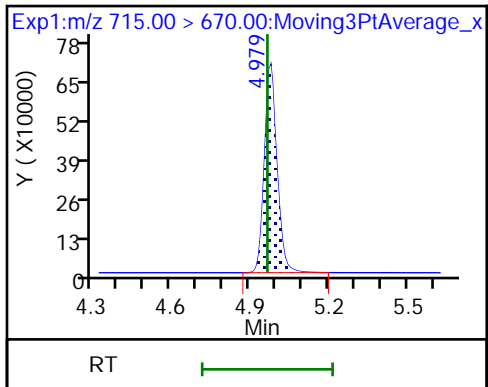
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)



Euofins TestAmerica, Burlington

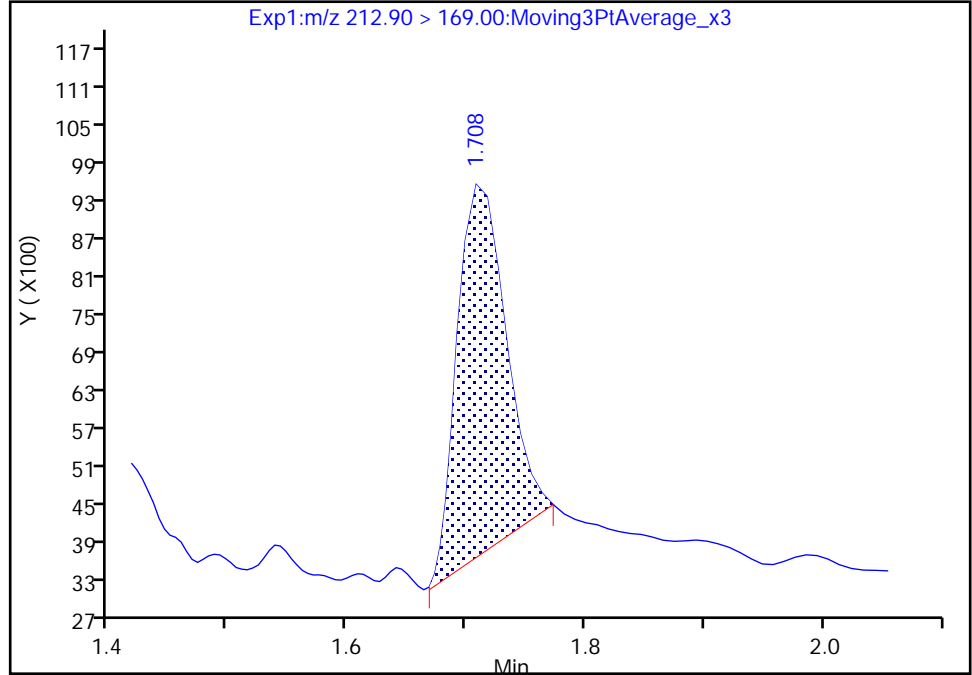
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

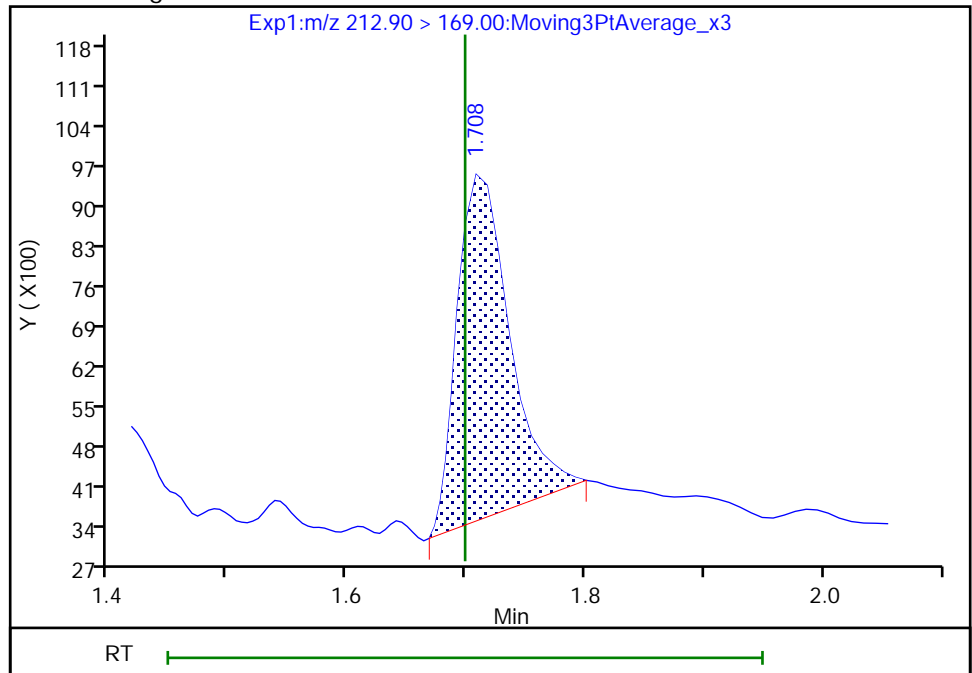
RT: 1.71  
Area: 16614  
Amount: 0.259240  
Amount Units: ng/ml

Processing Integration Results



RT: 1.71  
Area: 18408  
Amount: 0.287233  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

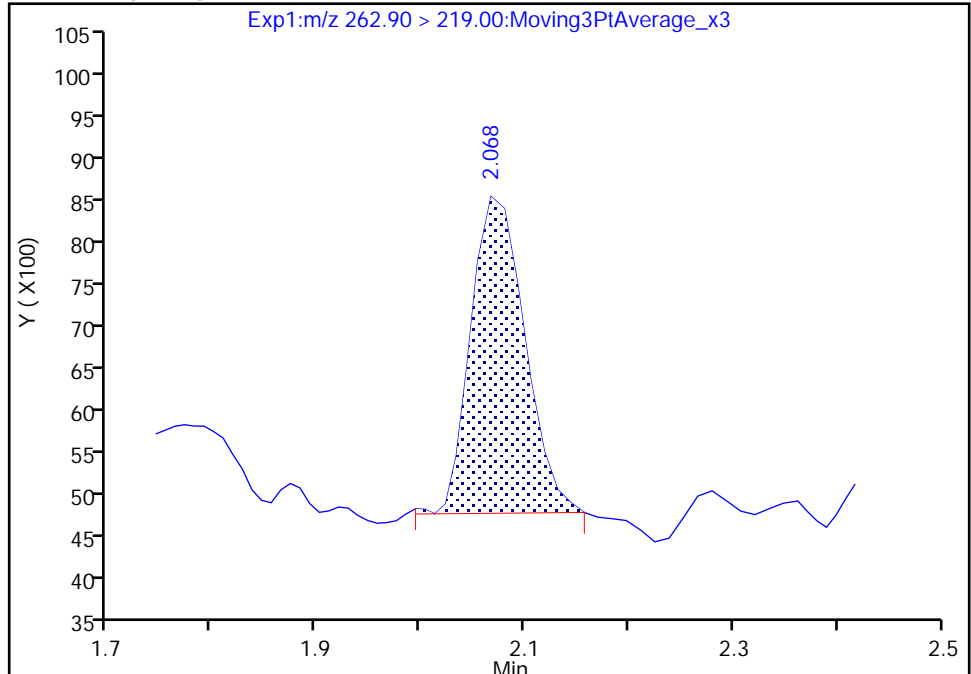
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Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

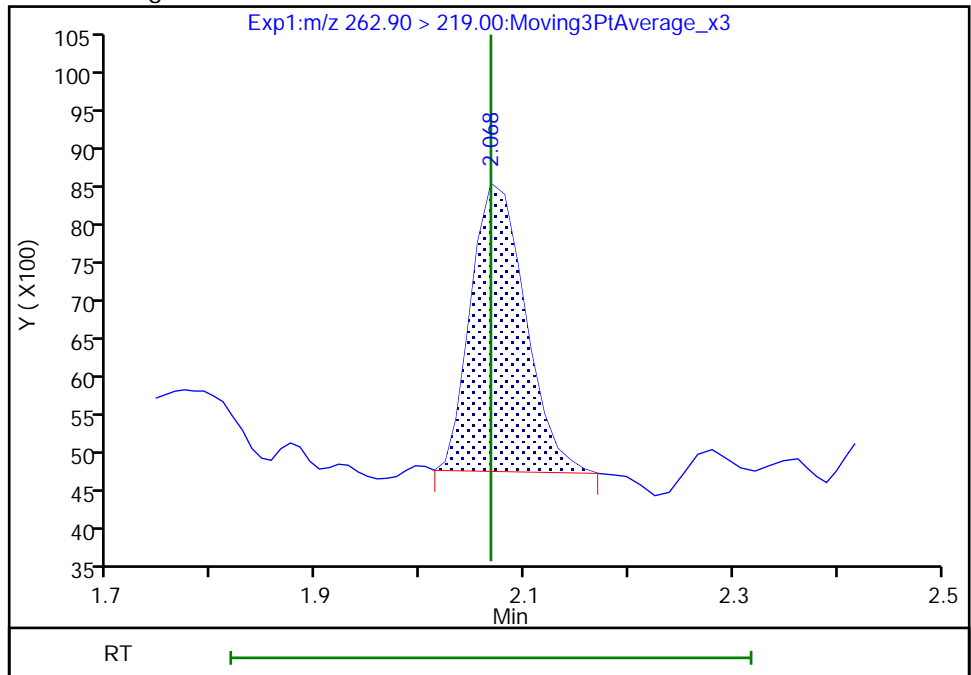
RT: 2.07  
Area: 13511  
Amount: 0.211425  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 13713  
Amount: 0.214586  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:55:08  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

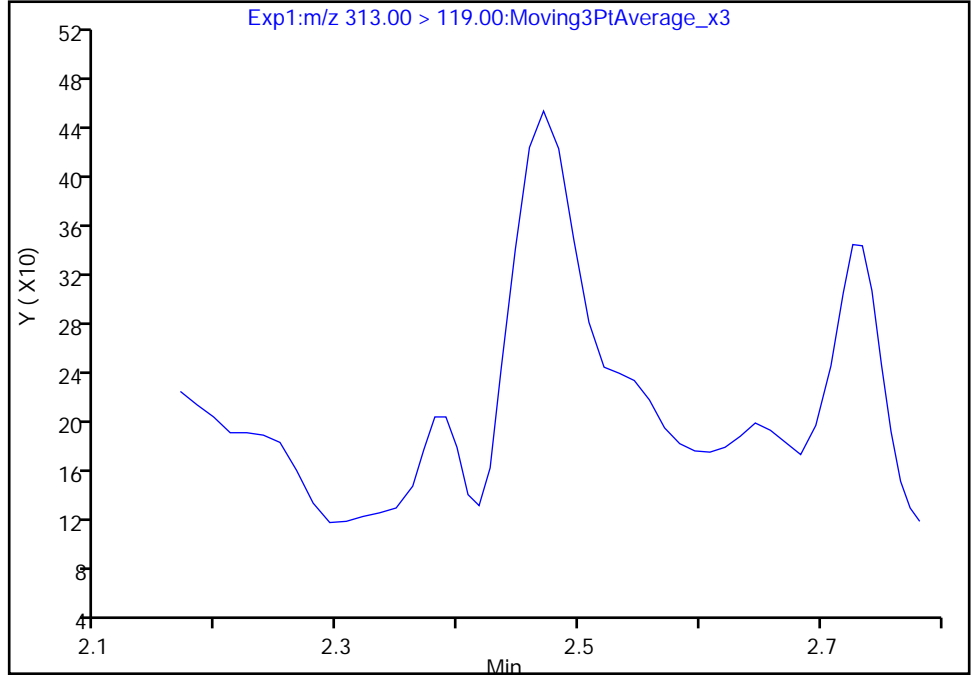
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

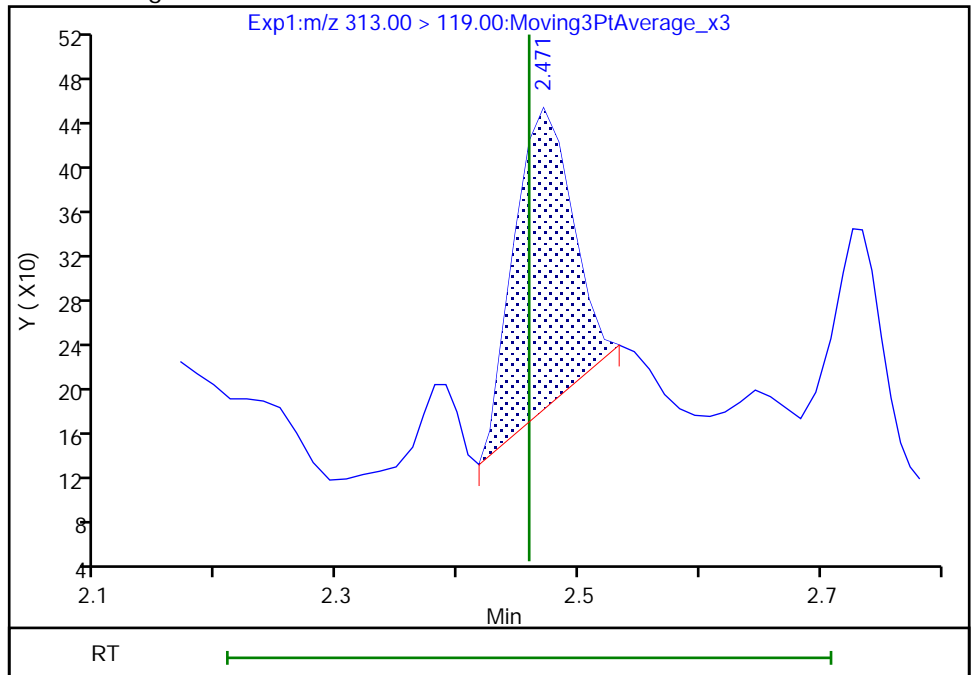
Not Detected  
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.47  
Area: 925  
Amount: 0.230587  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:55:29  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

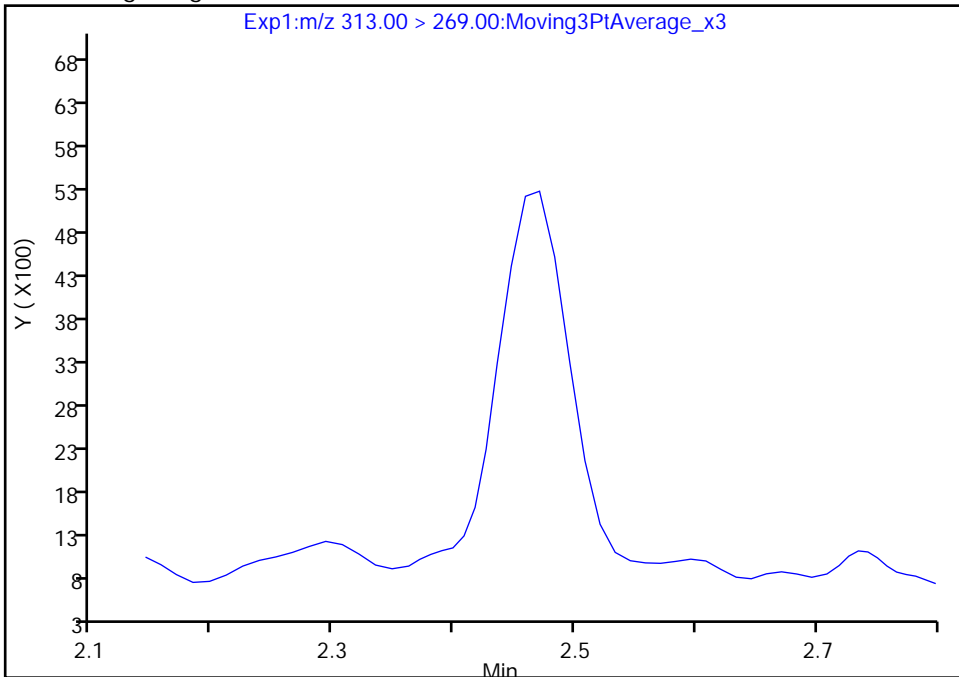
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E009.d  
Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

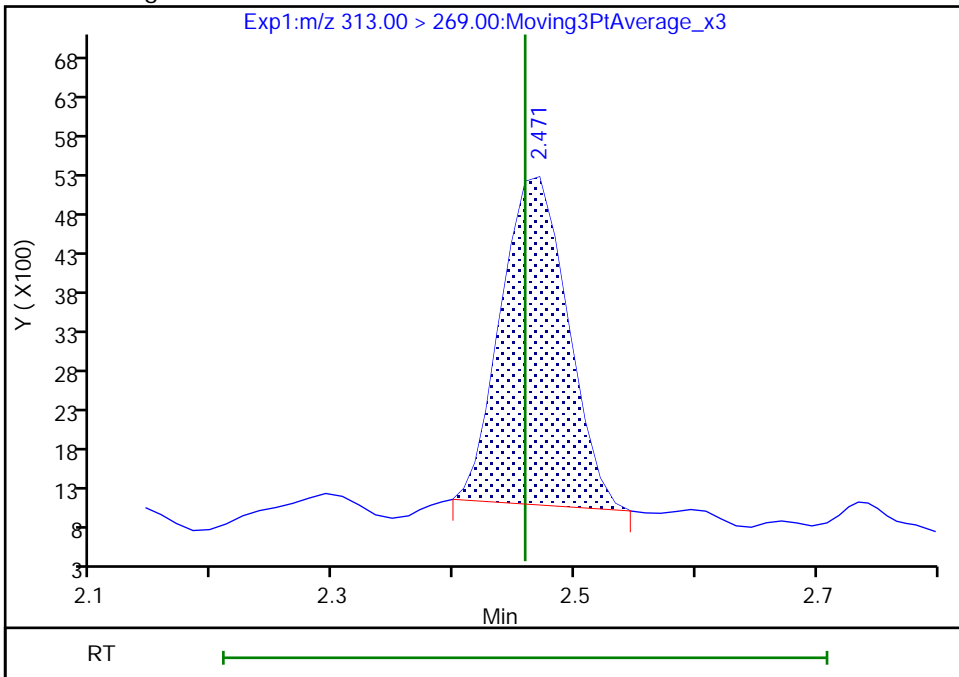
Not Detected  
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.47  
Area: 16049  
Amount: 0.230587  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

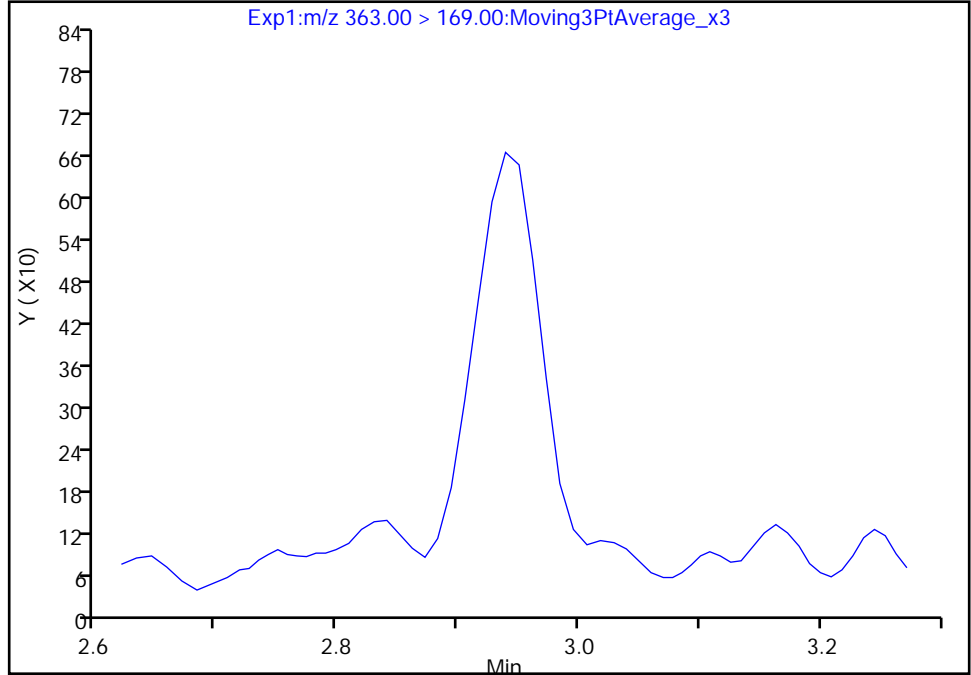
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
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Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

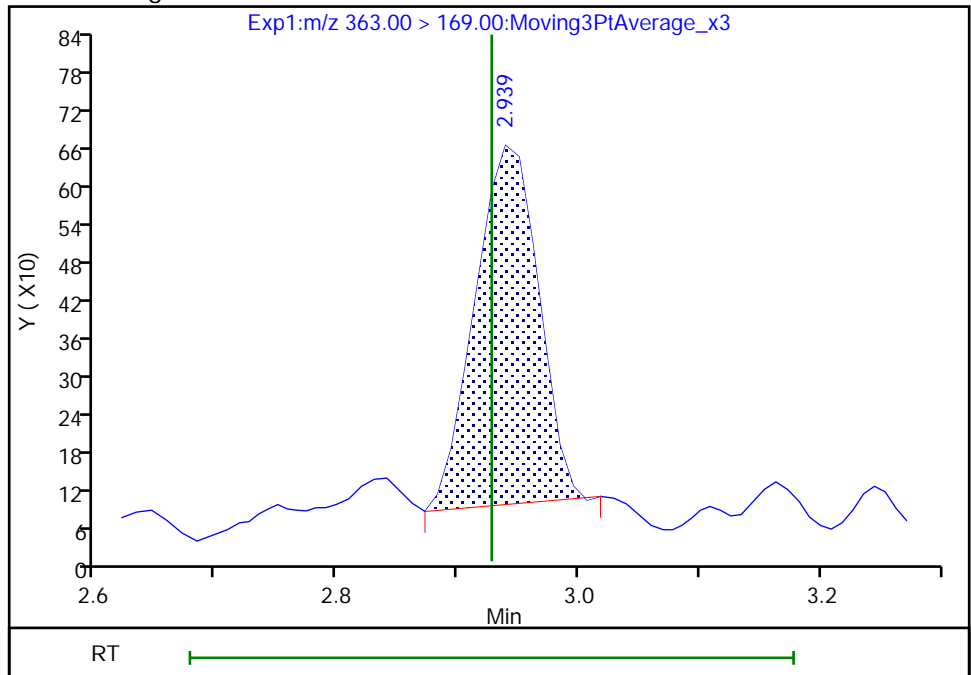
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 2077  
Amount: 0.084333  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:57:31  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

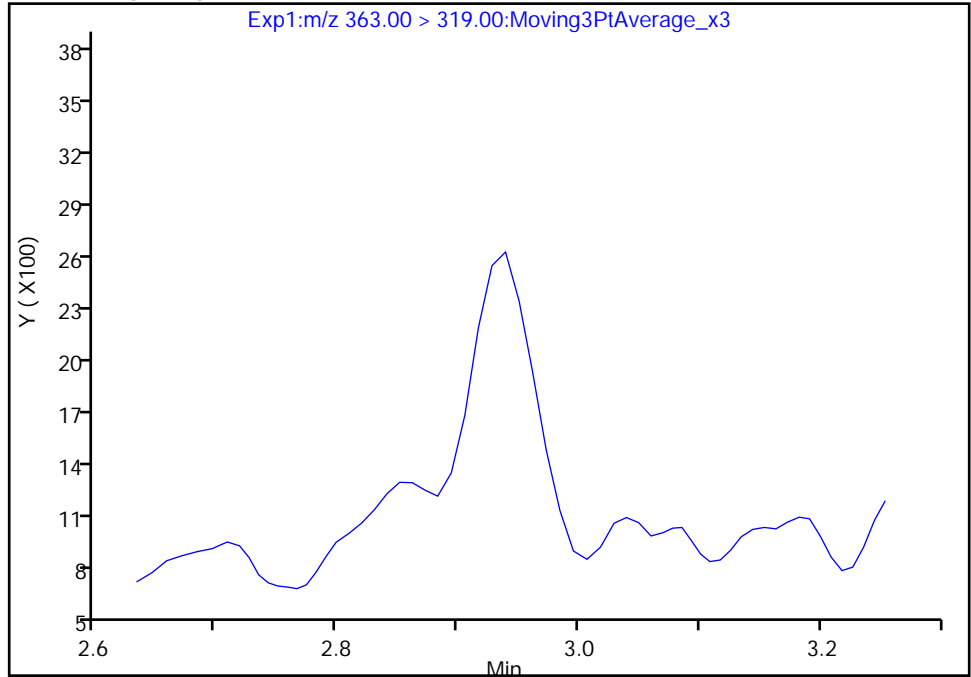
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E009.d  
Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
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Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

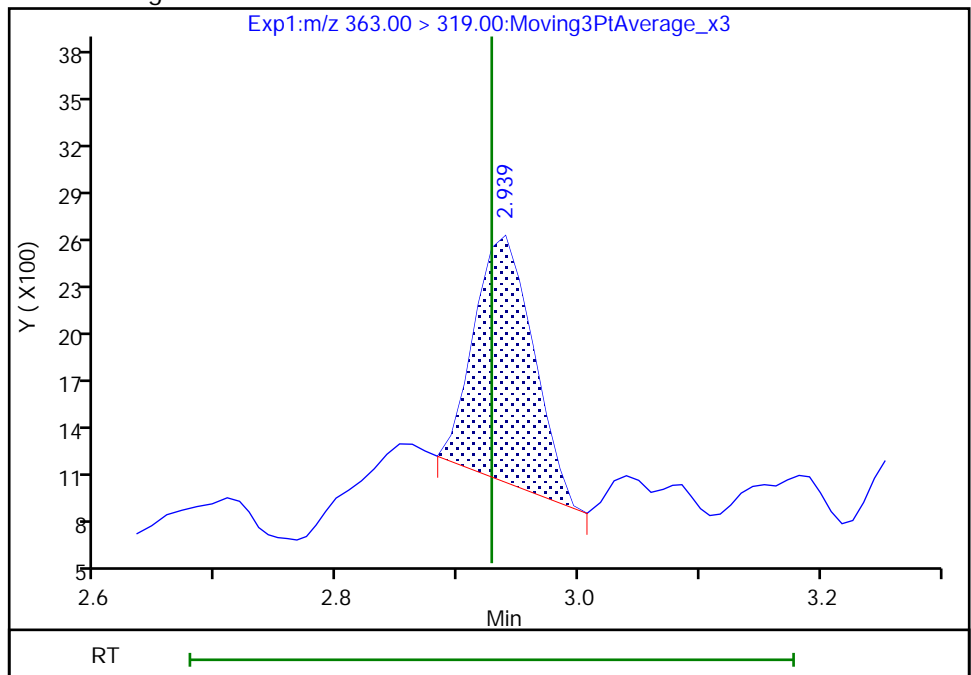
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 5179  
Amount: 0.084333  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

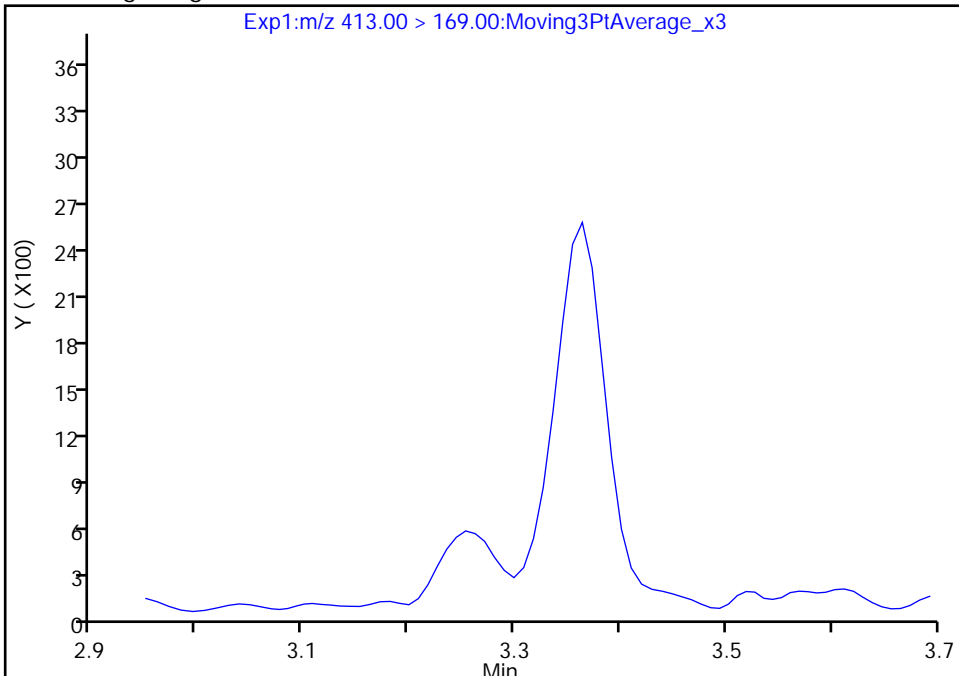
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E009.d  
Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

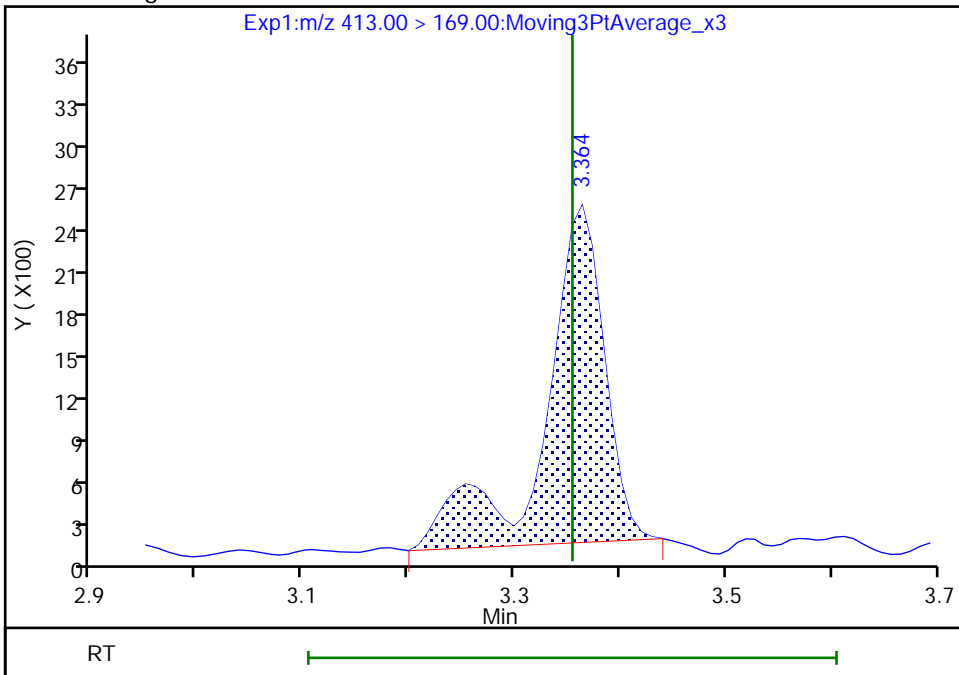
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.36  
Area: 9333  
Amount: 0.323641  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:57:54  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

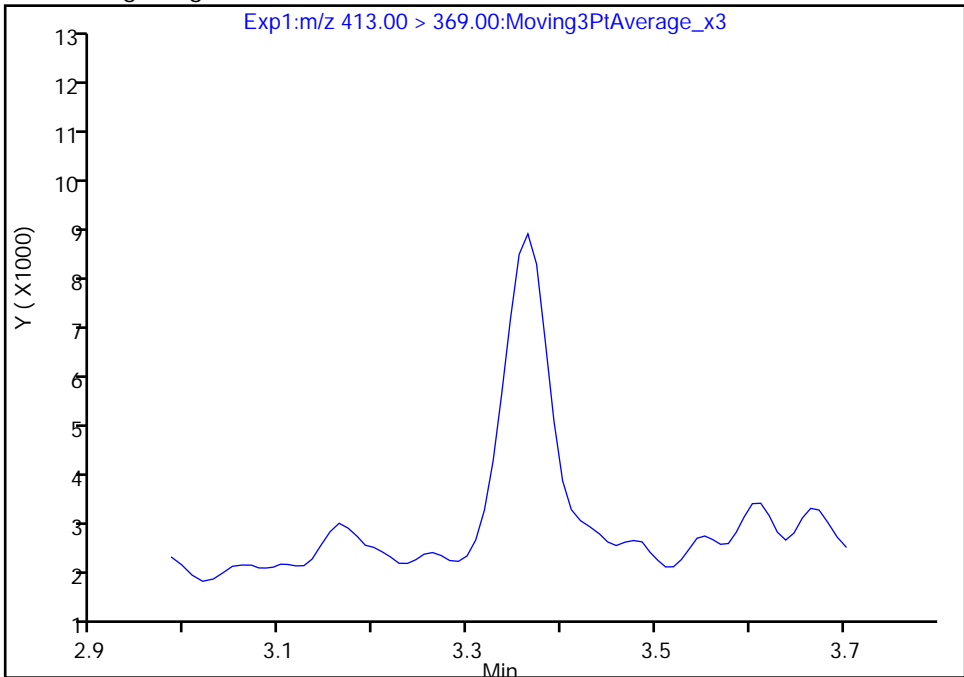
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E009.d  
Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
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Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

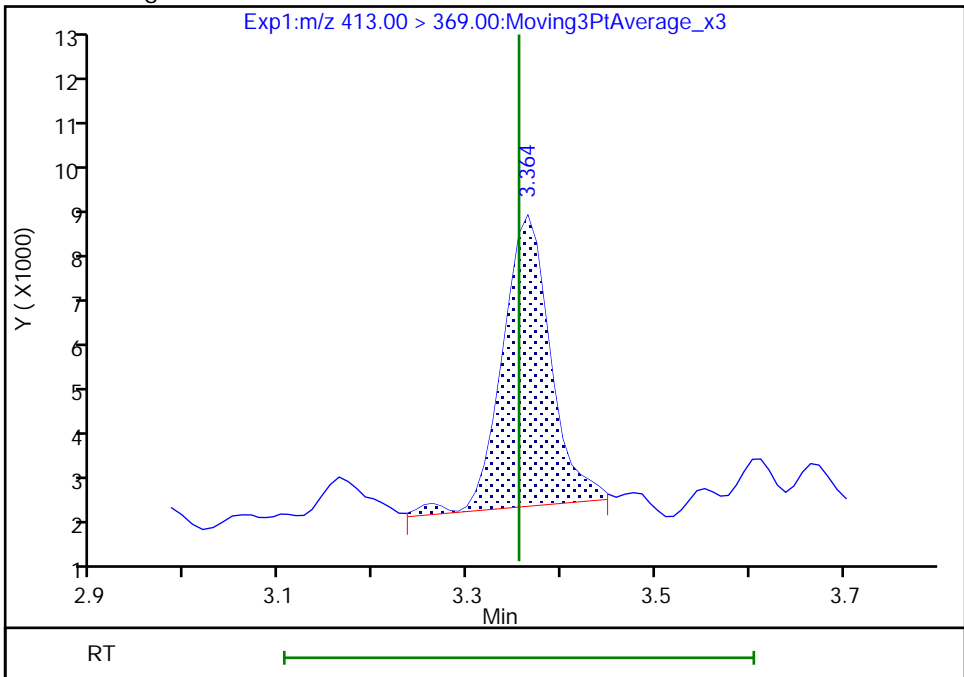
Not Detected  
Expected RT: 3.35

Processing Integration Results



RT: 3.36  
Area: 23260  
Amount: 0.323641  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

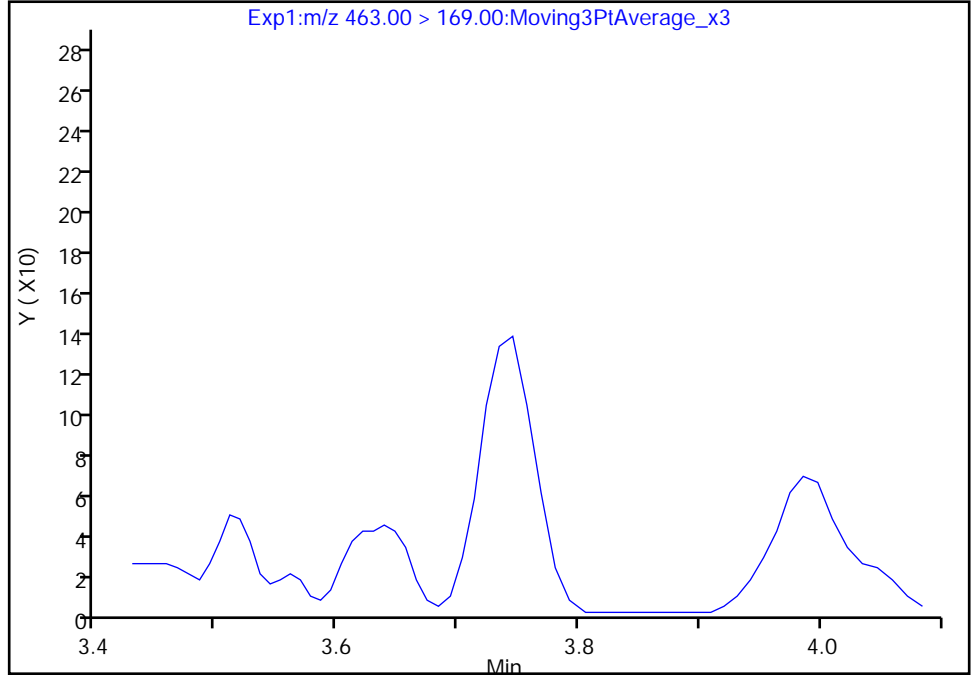
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

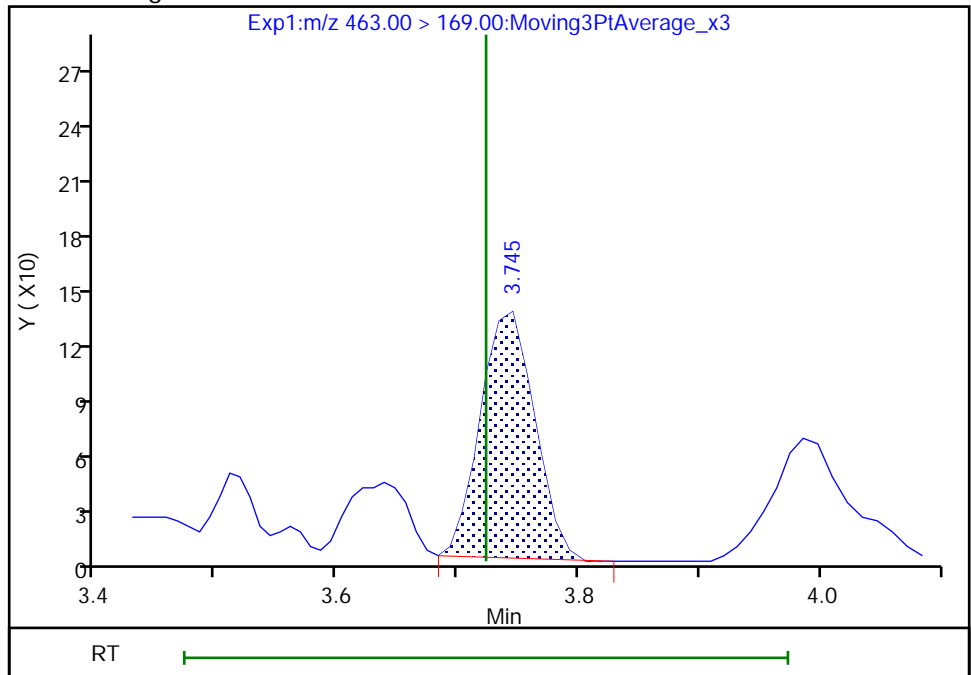
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.75  
Area: 418  
Amount: 0.045080  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:58:23  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

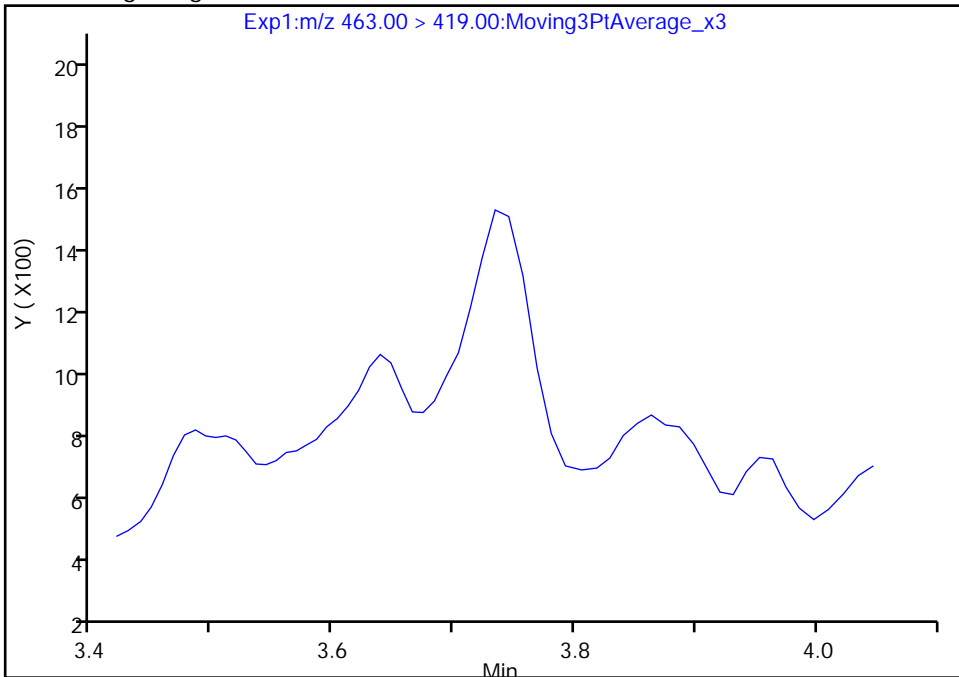
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E009.d  
Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

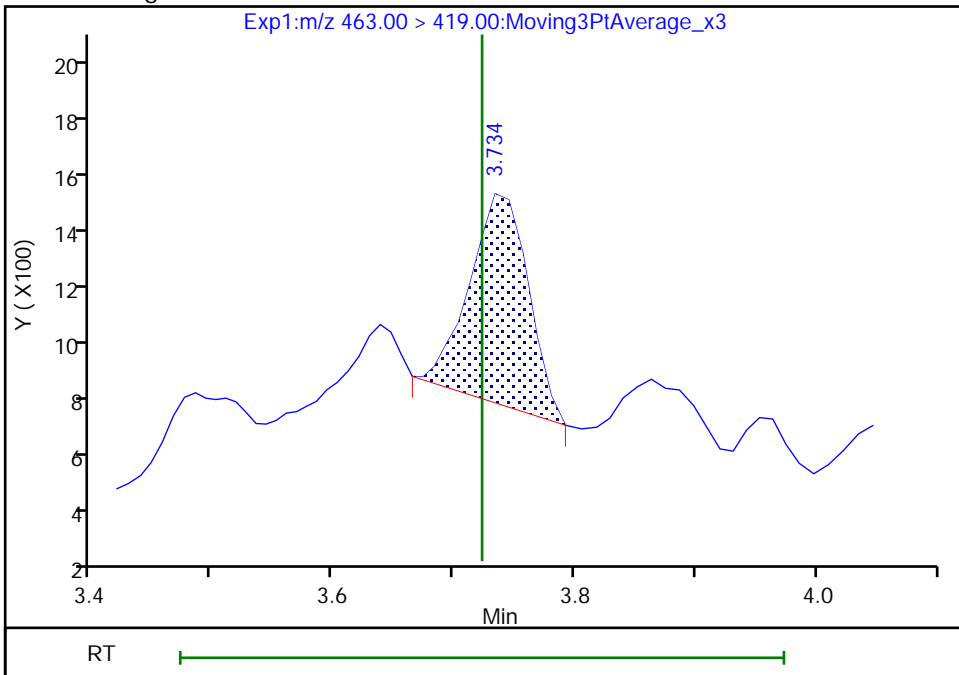
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.73  
Area: 2515  
Amount: 0.045080  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

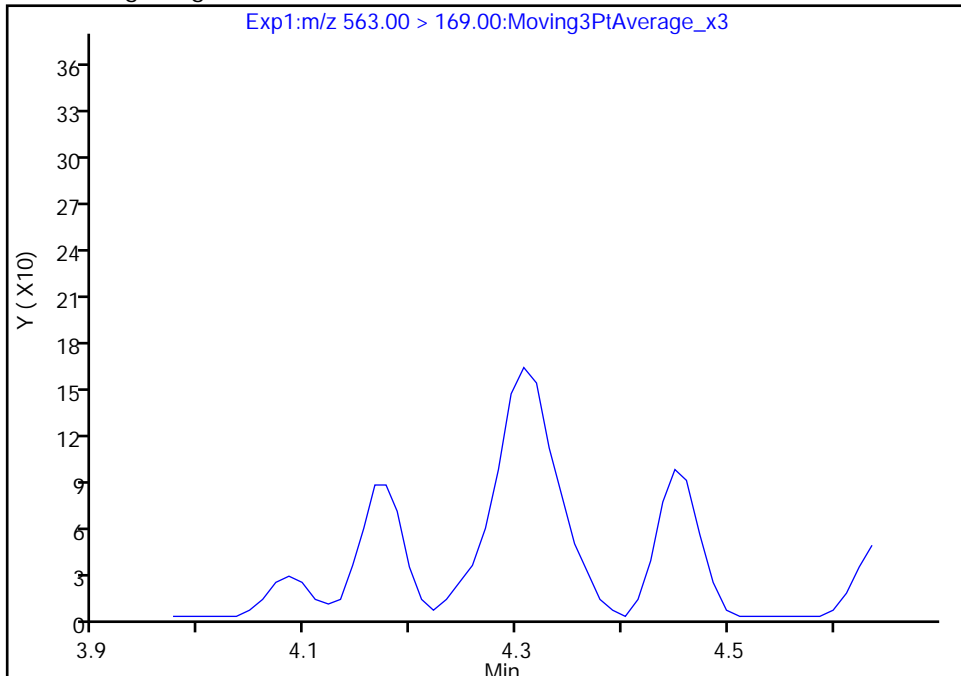
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

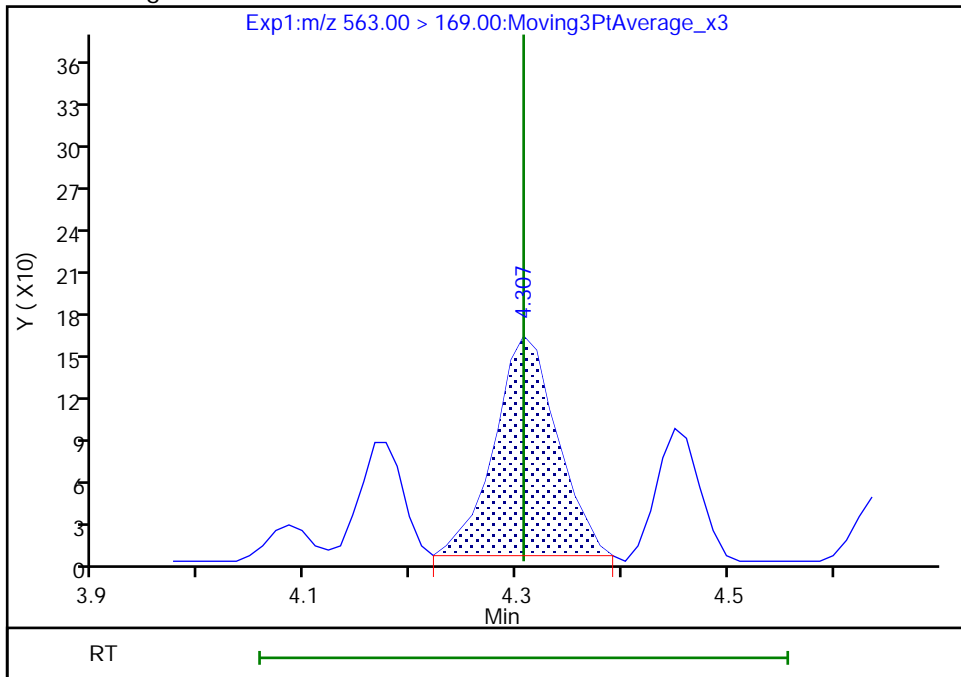
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 648  
Amount: 0.127792  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:58:55  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

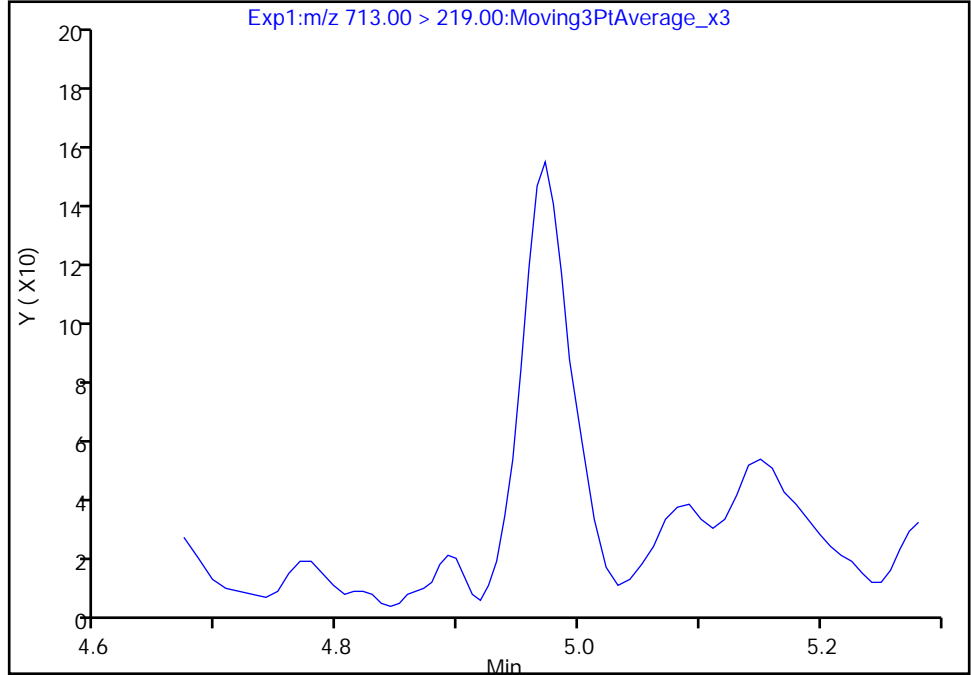
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

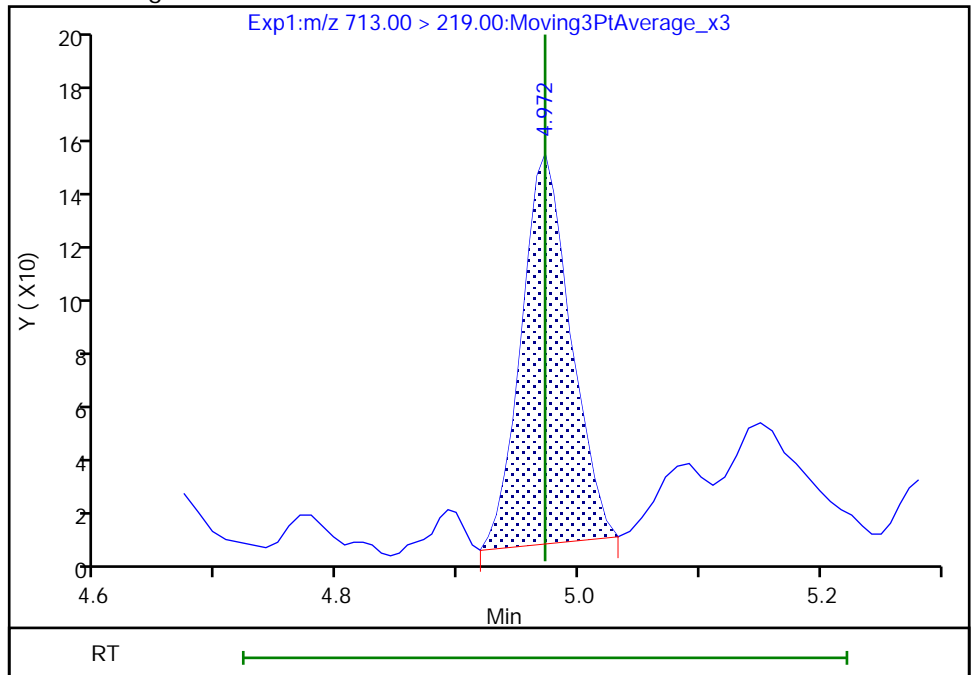
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 404  
Amount: 0.102388  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:59:10  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

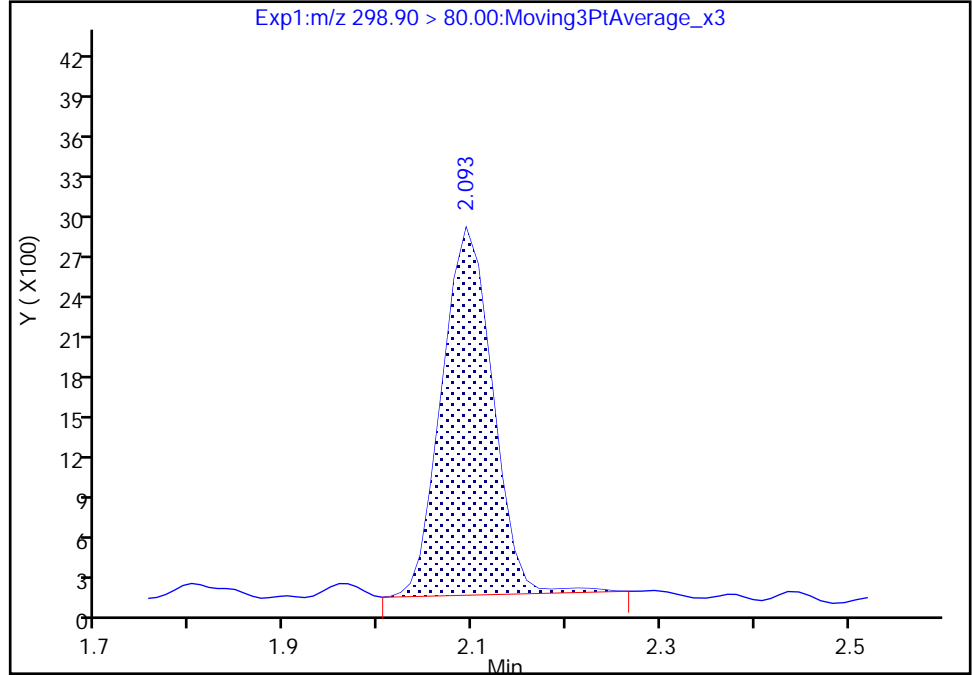
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E009.d  
Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

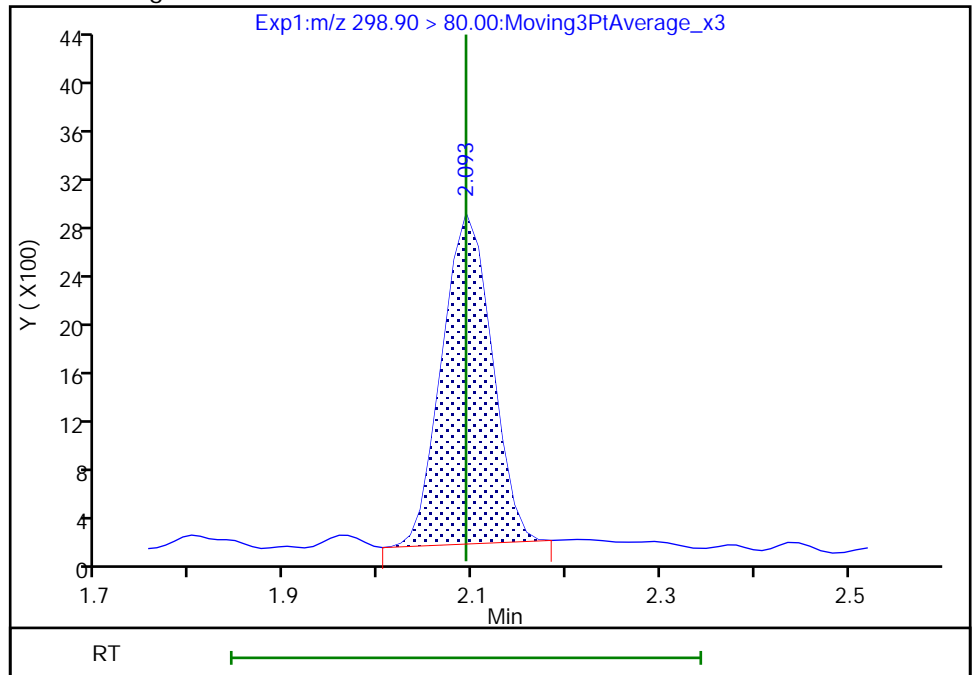
RT: 2.09  
Area: 10073  
Amount: 0.150468  
Amount Units: ng/ml

Processing Integration Results



RT: 2.09  
Area: 9822  
Amount: 0.146719  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:55:13  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

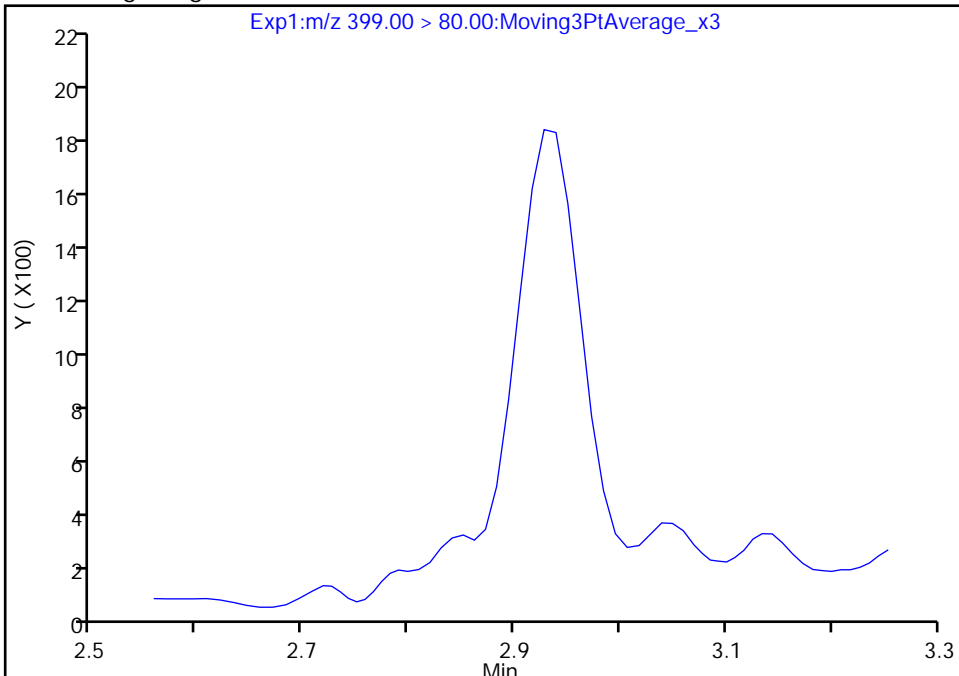
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

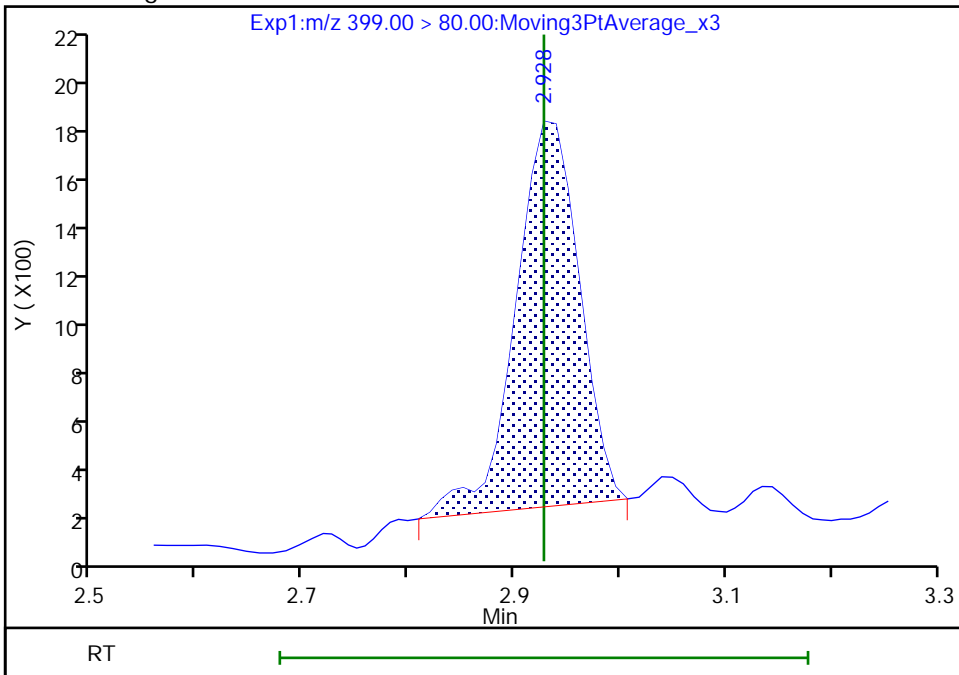
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 6633  
Amount: 0.129599  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:55:46  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

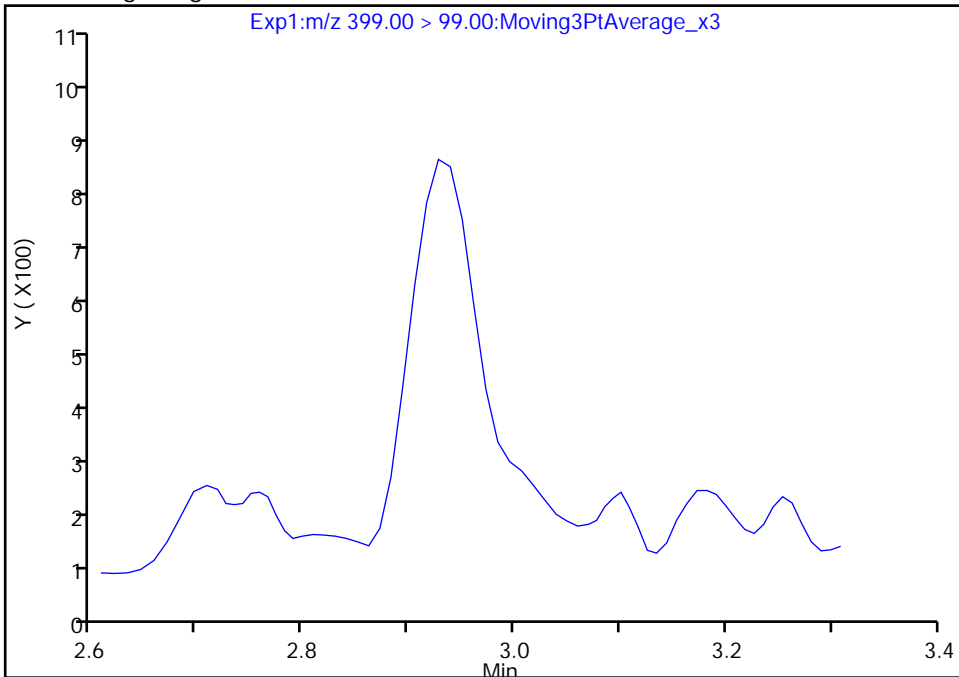
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

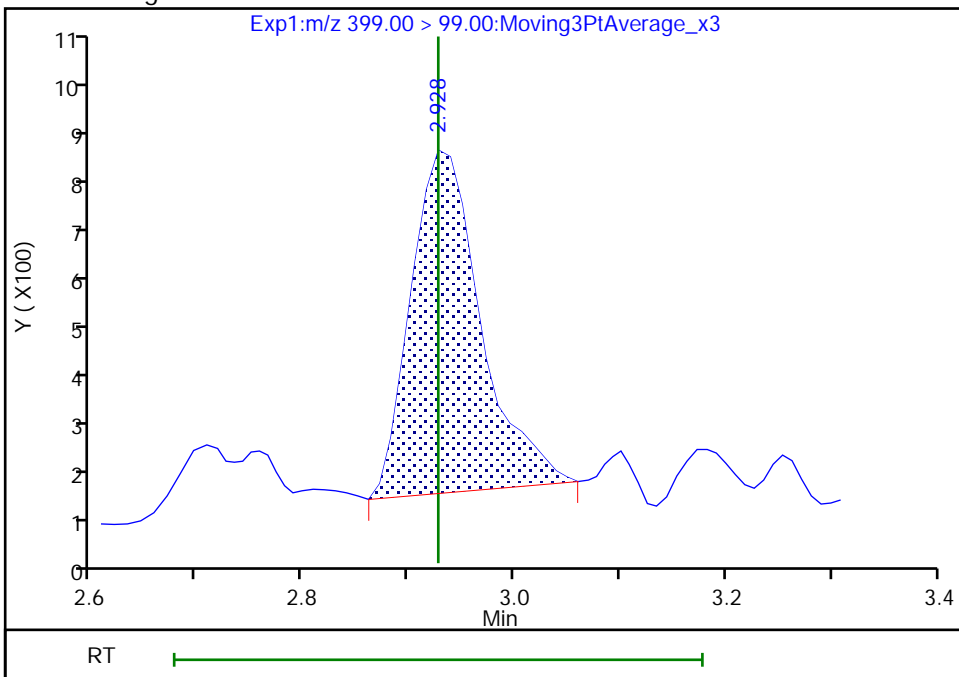
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 3091  
Amount: 0.129599  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

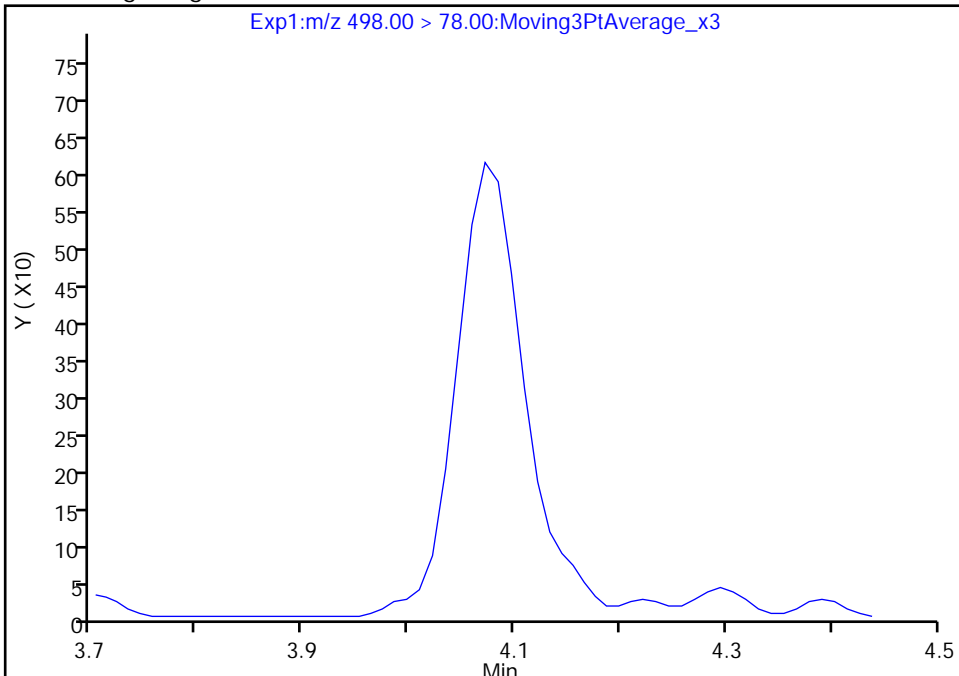
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

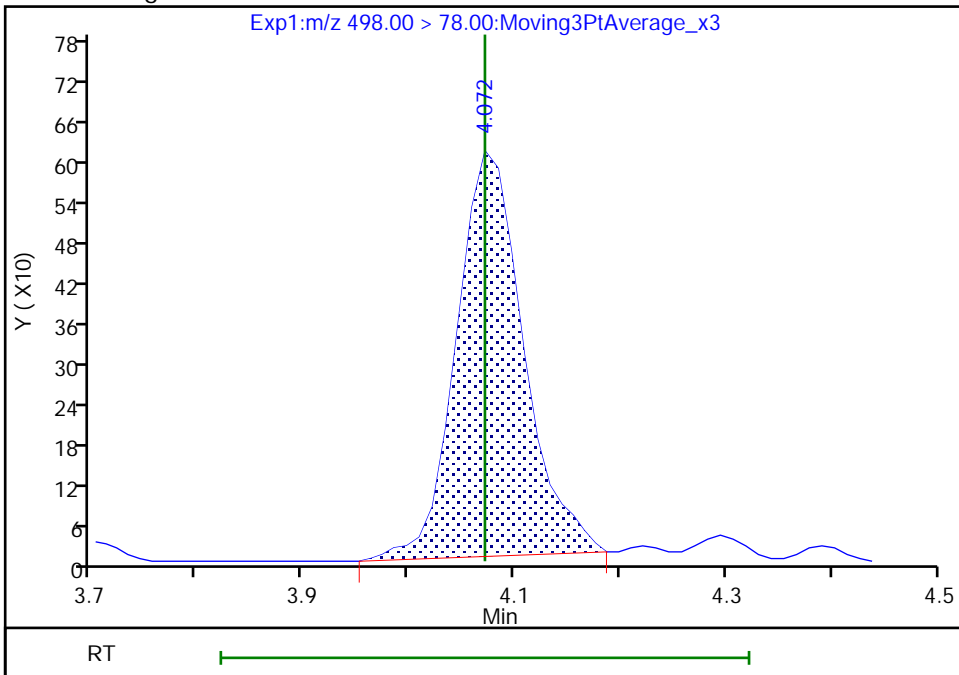
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.07  
Area: 2675  
Amount: 0.057351  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:58:42  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

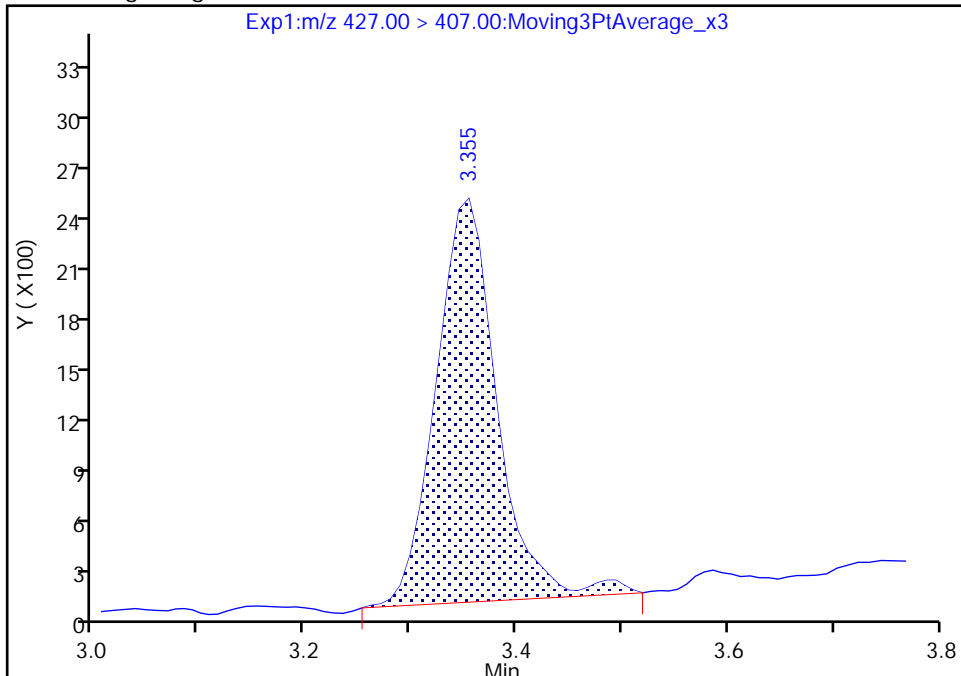
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Injection Date: 02-Aug-2019 04:53:34 Instrument ID: LC812  
Lims ID: 480-156213-F-6-A Lab Sample ID: 200-156213-6  
Client ID: 356023-MW11B  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 9  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:, CAS: 27619-97-2

Signal: 1

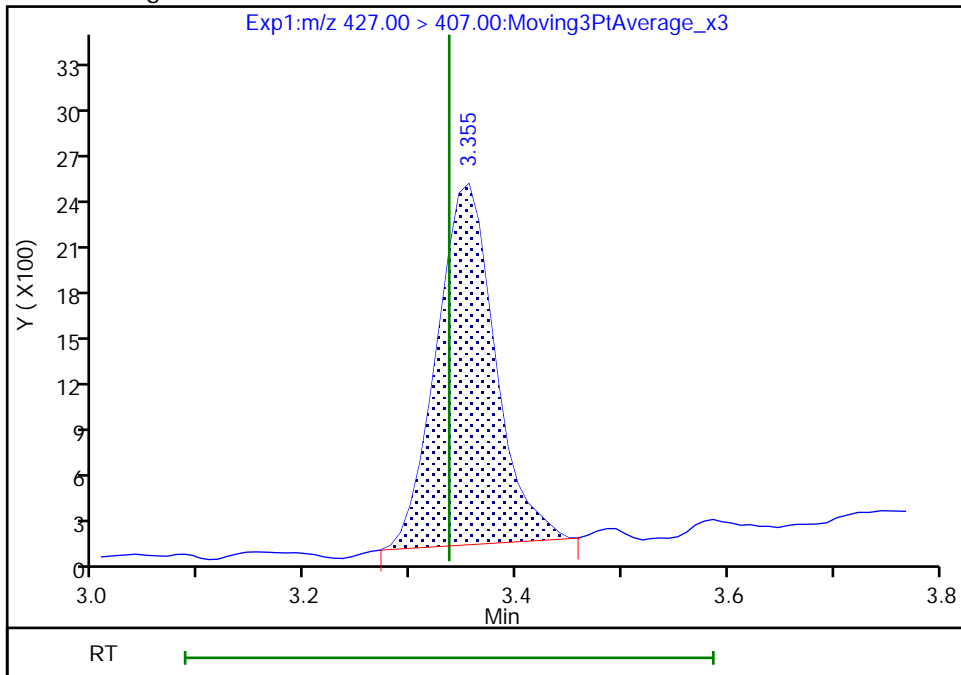
RT: 3.35  
Area: 9539  
Amount: 0.615113  
Amount Units: ng/ml

Processing Integration Results



RT: 3.35  
Area: 9057  
Amount: 0.584032  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:57:41  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11C Lab Sample ID: 480-156213-7  
 Matrix: Water Lab File ID: SC080119E010.d  
 Analysis Method: 537 (modified) Date Collected: 07/10/2019 15:23  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 309.4 (mL) Date Analyzed: 08/02/2019 05:01  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.6	0.81
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.6	0.51
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.61
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.74
335-67-1	Perfluorooctanoic acid (PFOA)	0.56	J	1.6	0.51
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.62
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.74
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.40
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.65
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.77
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.73
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.49
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.1	8.1
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.7
39108-34-4	8:2 FTS	ND		16	2.3

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW11C Lab Sample ID: 480-156213-7  
 Matrix: Water Lab File ID: SC080119E010.d  
 Analysis Method: 537 (modified) Date Collected: 07/10/2019 15:23  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 309.4 (mL) Date Analyzed: 08/02/2019 05:01  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	79		25-150
STL00992	13C4 PFBA	87		25-150
STL01893	13C5 PFPeA	95		25-150
STL00993	13C2 PFHxA	94		50-150
STL01892	13C4 PFHpA	95		50-150
STL00990	13C4 PFOA	90		50-150
STL00995	13C5 PFNA	92		50-150
STL00996	13C2 PFDA	94		50-150
STL00997	13C2 PFUnA	90		50-150
STL00998	13C2 PFDoA	78		50-150
STL02116	13C2 PFTeDA	65		50-150
STL02337	13C3 PFBS	97		50-150
STL00994	18O2 PFHxS	91		50-150
STL00991	13C4 PFOS	88		50-150
STL02118	d3-NMeFOSAA	75		50-150
STL02117	d5-NEtFOSAA	66		50-150
STL02279	M2-6:2 FTS	101		25-150
STL02280	M2-8:2 FTS	110		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
 Lims ID: 480-156213-F-7-A  
 Client ID: 356023-MW11C  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 05:01:38 ALS Bottle#: 3 Worklist Smp#: 10  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-7-A  
 Misc. Info.: 200-0037095-010 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:02:09  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.508	3135060	43.5	87.0	10385	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.717	1.699	0.018	1.005	10789	0.1867		2.1		M
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	3228689	47.7	95.4	7522	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.067	2.067	0.0	1.000	13694	0.2192		0.6		M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	2992634	45.0	96.8	414950	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.093	2.093	0.0	1.000	7480	0.1143	Target=1.90	5.2		
298.90 > 99.00	2.093	2.093	0.0	1.000	3940		1.90(0.95-2.85)	3.9		M
D 7 13C2 PFHxA	315.00 > 270.00	2.470	2.459	0.011	0.735	3167044	47.1	94.2	6263	
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.871	1668328	42.9	90.6	4948	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.874	3132007	47.6	95.1	7434	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.928	2.928	0.0	1.000	7921	0.1704	Target=3.37	8.4		M
399.00 > 99.00	2.928	2.928	0.0	1.000	1925		4.11(1.69-5.06)	2.8		M
D 12 M2-6:2 FTS	429.00 > 81.00	3.344	3.335	0.009	0.994	386892	47.7	101	725	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.354	3.336	0.018	1.003	11658	0.8345		21.8		
D 14 13C4 PFOA	417.00 > 372.00	3.363	3.344	0.019	1.000	3140456	45.2	90.3	9913	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.363	3.355	0.008	1.000	23551	0.3446	Target=2.84	2.6		M
413.00 > 169.00	3.363	3.355	0.008	1.000	8151		2.89(1.42-4.25)	30.4		M
* 62 13C2 PFOA										
415.00 > 370.00	3.363	3.355	0.008		3823047	50.0			9394	
D 18 13C4 PFOS										
503.00 > 80.00	3.715	3.695	0.020	1.105	1357084	41.8		87.5	4893	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.715	3.703	0.012	1.000	4565	0.1699	Target=4.33	13.4		M
499.00 > 99.00	3.715	3.703	0.012	1.000	1663		2.75(2.16-6.49)	3.4		M
D 19 13C5 PFNA										
468.00 > 423.00	3.735	3.715	0.020	1.111	2932198	46.2		92.5	11382	
D 23 13C2 PFDA										
515.00 > 470.00	4.049	4.036	0.013	1.204	2380006	46.9		93.8	19206	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.061	4.036	0.025	1.208	394166	52.7		110	940	
D 21 13C8 FOSA										
506.00 > 78.00	4.074	4.061	0.013	1.211	2305756	39.6		79.2	5811	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.072	0.002	1.000	5425	0.1289			52.4	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.189	4.178	0.011	1.246	244148	37.7		75.3	3121	
28 N-methylperfluorooctanesulfonamido										M
570.00 > 419.00	4.168	4.187	-0.019	0.995	122	0.0330		0.4		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.320	4.296	0.024	1.285	2076247	44.9		89.8	9579	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.320	4.307	0.013	1.000	4224	0.1185	Target=7.95	2.1		M
563.00 > 169.00	4.320	4.307	0.013	1.000	517		8.17(3.98-11.93)	4.8		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.308	0.012	1.285	240106	33.2		66.5	1097	
D 36 13C2 PFDoA										
615.00 > 570.00	4.550	4.537	0.013	1.353	1949556	39.2		78.4	5545	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.479	2223417	32.5		64.9	7604	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.979	4.972	0.007	1.001	420	0.0709	Target=1.02	4.1		M
713.00 > 219.00	4.972	4.972	0.0	1.000	415		1.01(0.51-1.54)	8.1		M

QC Flag Legend

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d

Injection Date: 02-Aug-2019 05:01:38

Instrument ID: LC812

Lims ID: 480-156213-F-7-A

Lab Sample ID: 200-156213-7

Client ID: 356023-MW11C

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 10

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

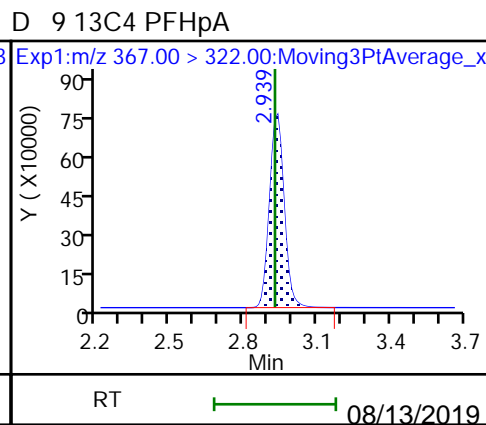
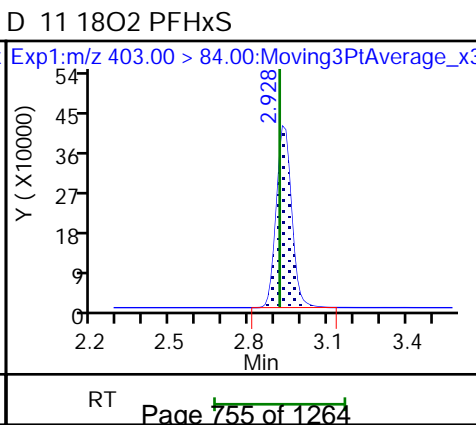
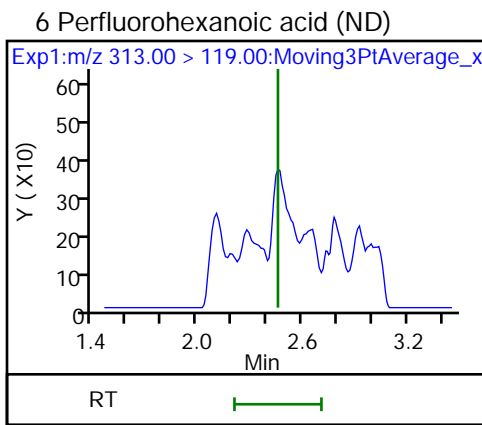
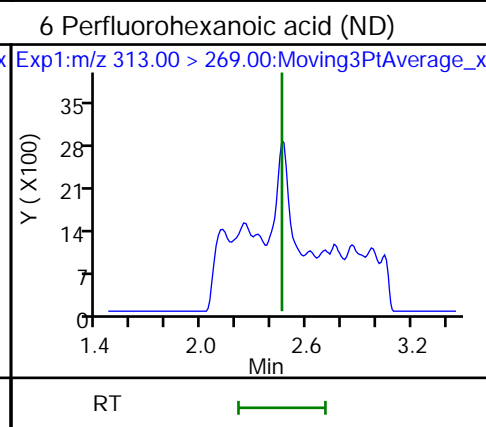
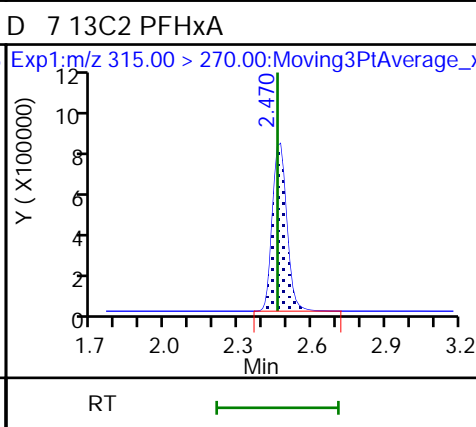
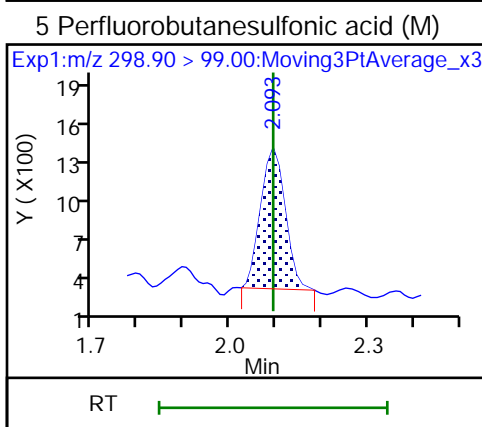
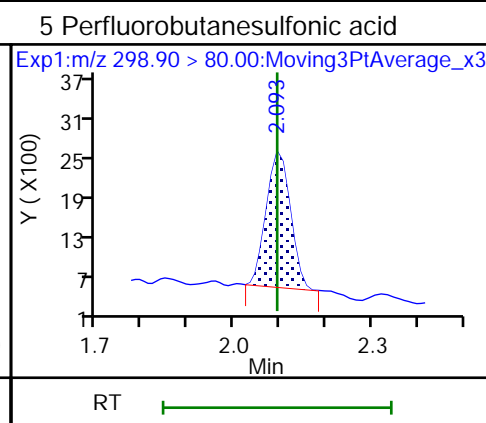
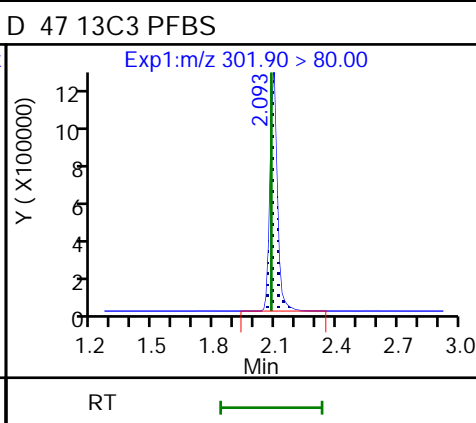
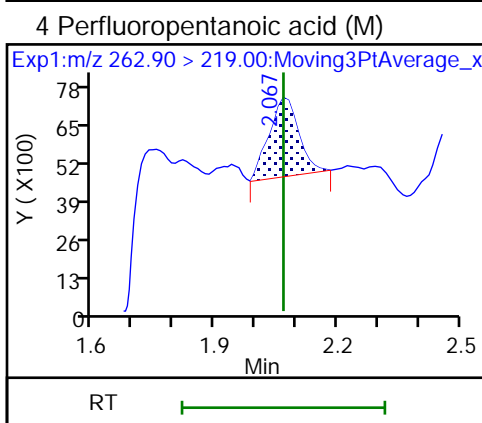
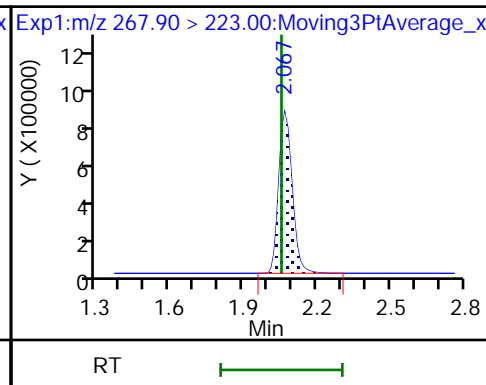
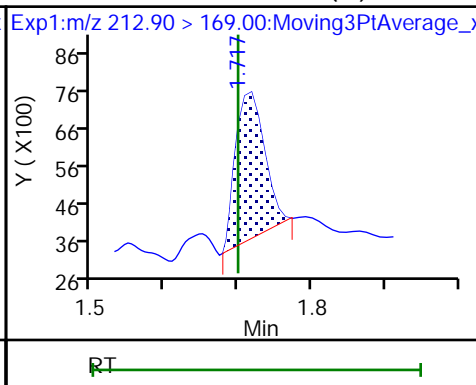
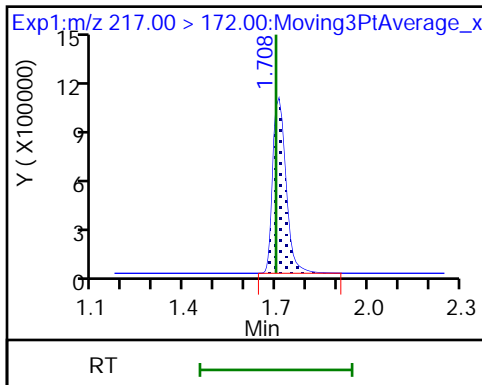
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

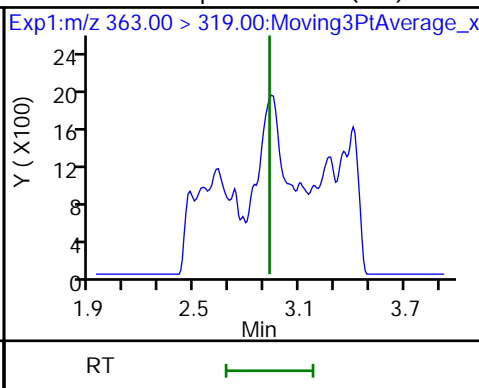
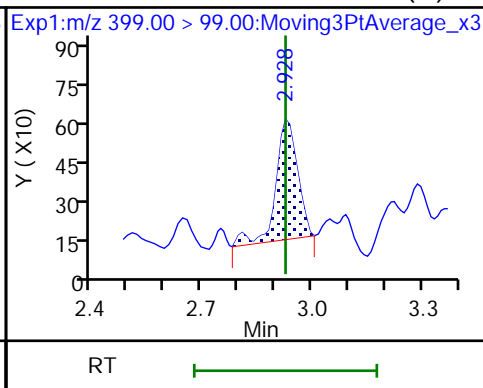
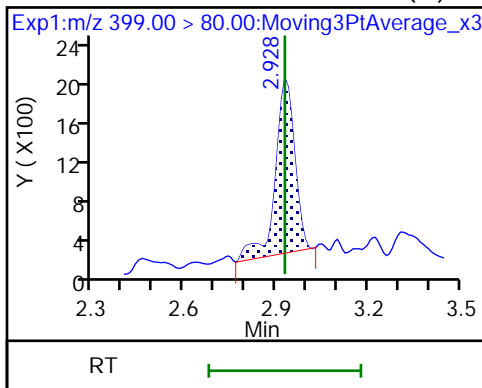
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

8 Perfluorohexanesulfonic acid (M)

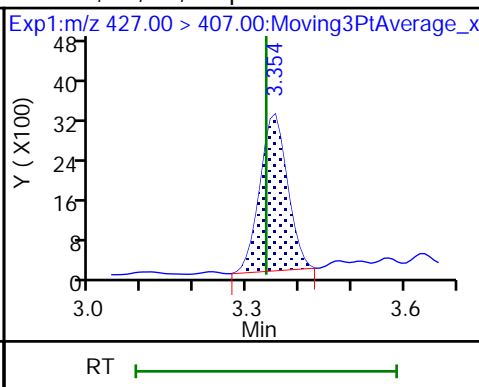
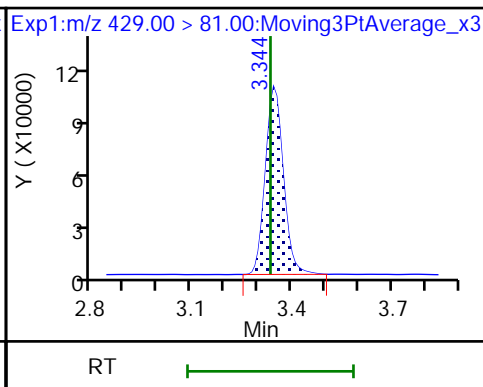
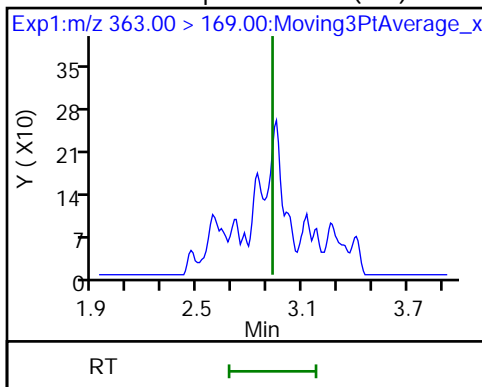
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

D 12 M2-6:2 FTS

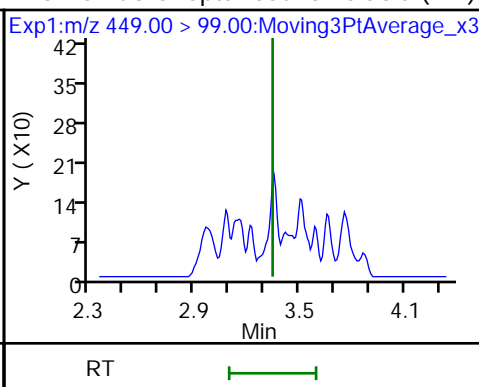
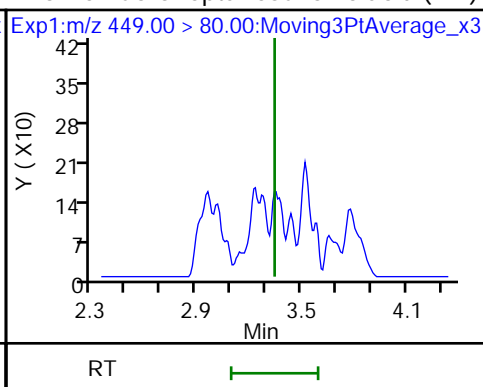
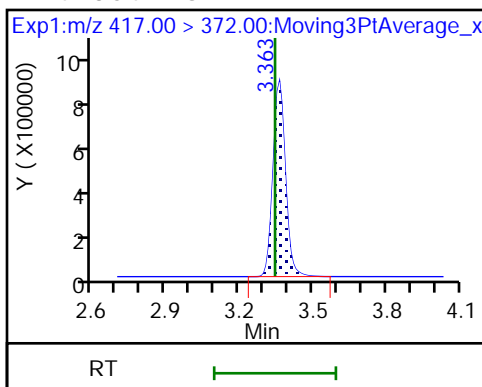
13 1H,1H,2H,2H-perfluorooctanesulfoni



D 14 13C4 PFOA

16 Perfluoroheptanesulfonic acid (ND)

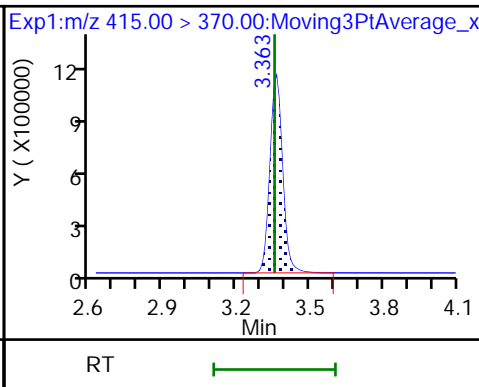
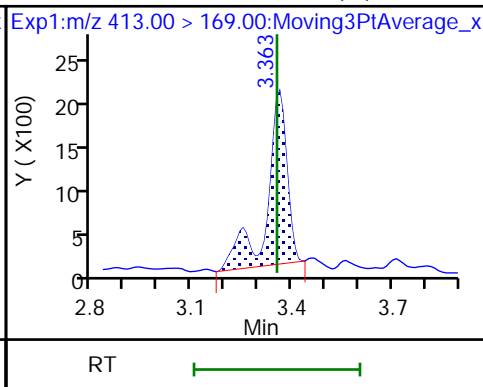
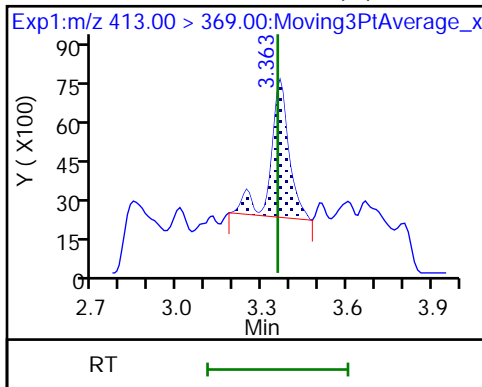
16 Perfluoroheptanesulfonic acid (ND)



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

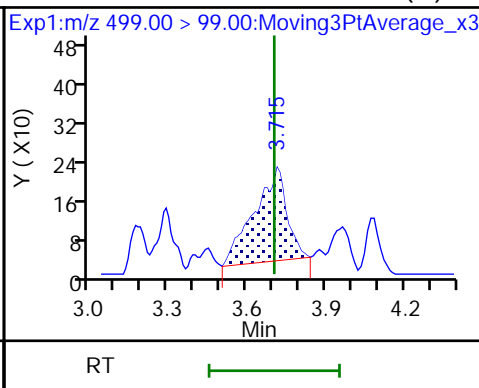
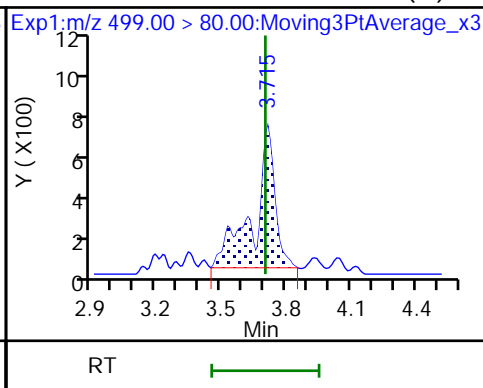
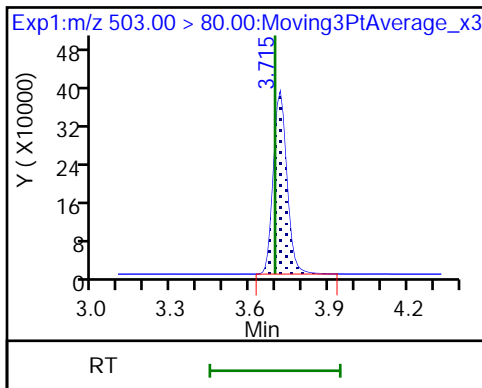
\* 62 13C2 PFOA



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

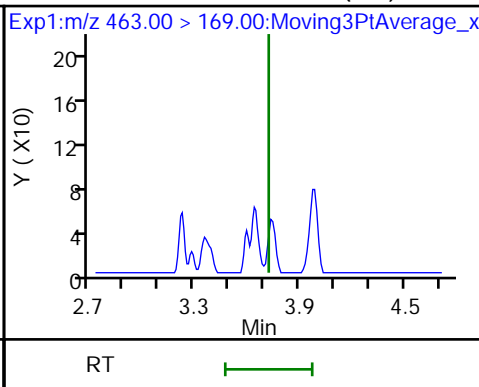
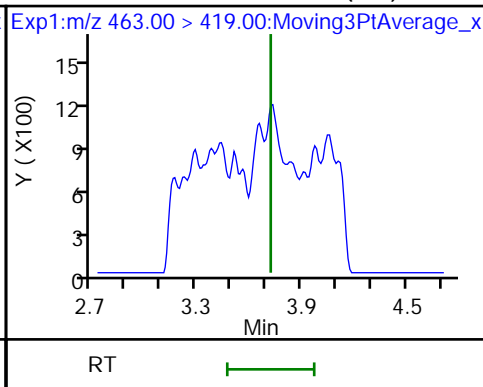
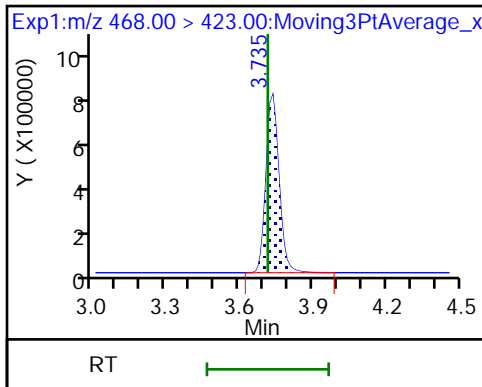
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (ND)

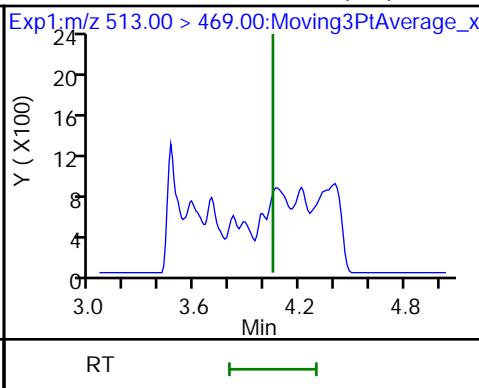
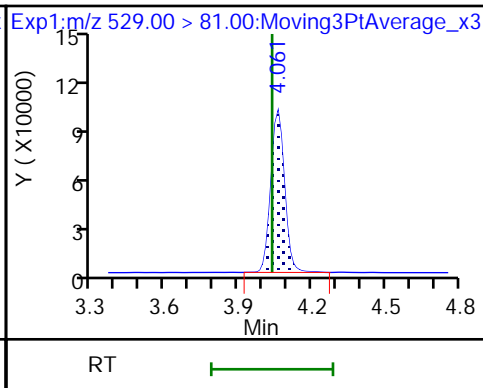
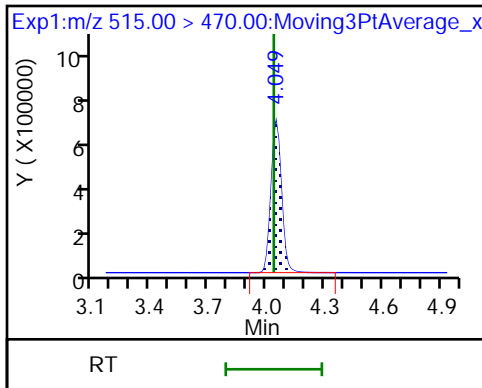
20 Perfluorononanoic acid (ND)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

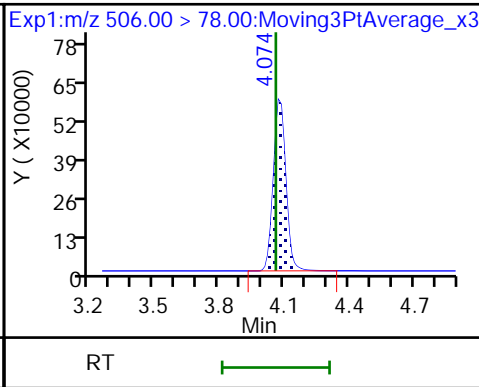
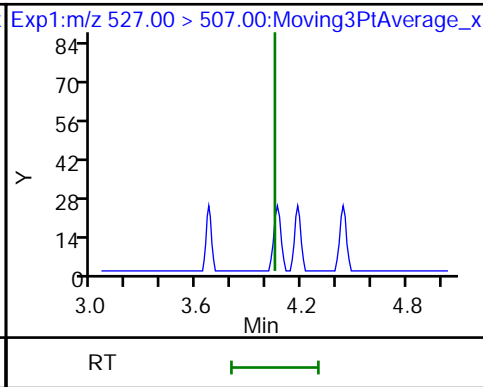
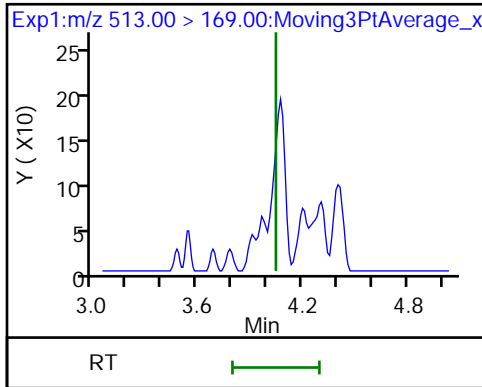
24 Perfluorodecanoic acid (ND)

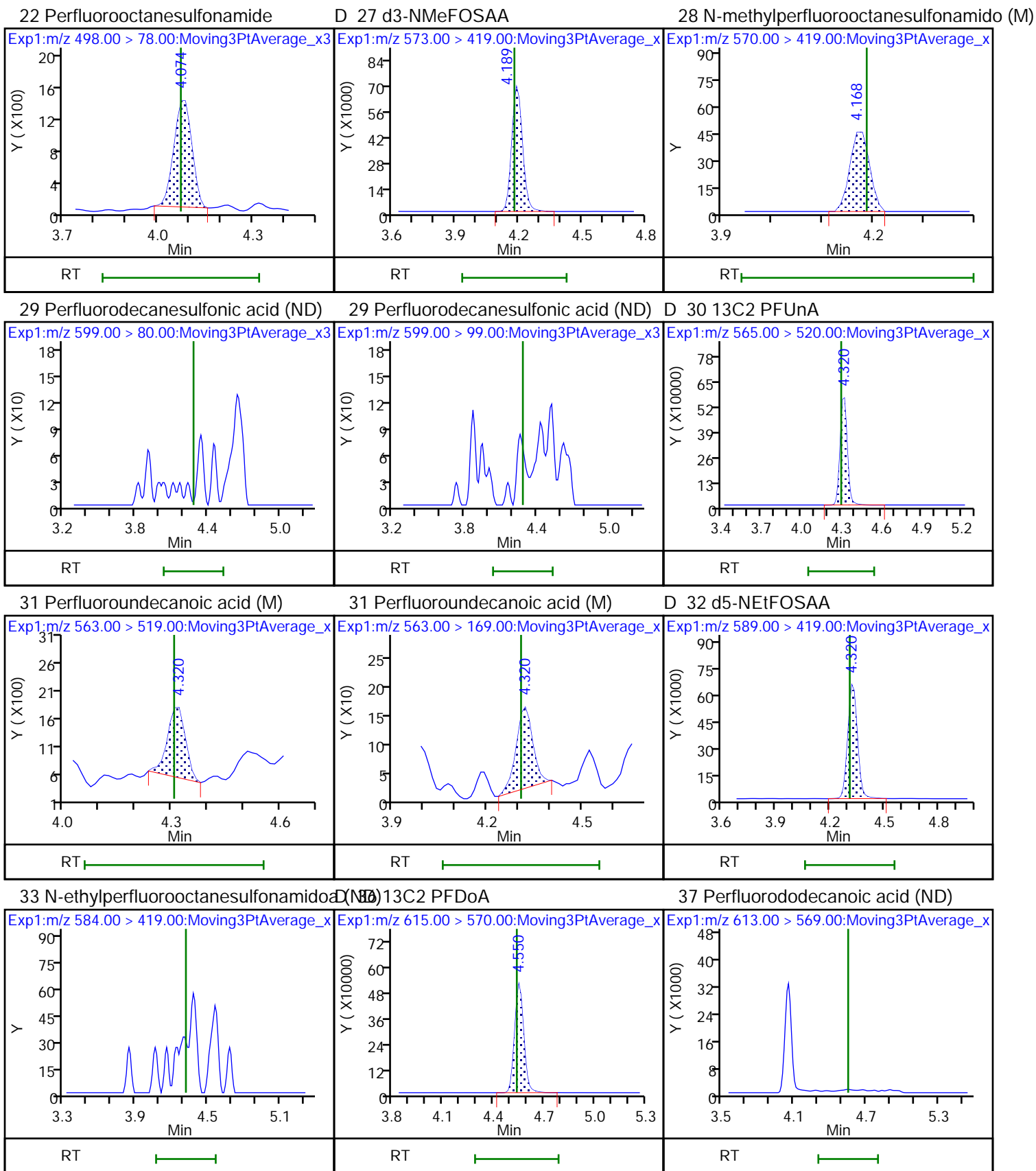


24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (ND)

(ND) 3C8 FOSA



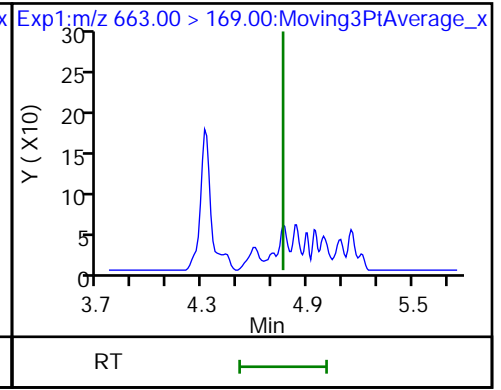
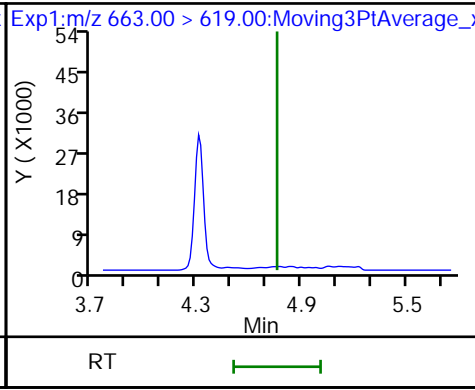
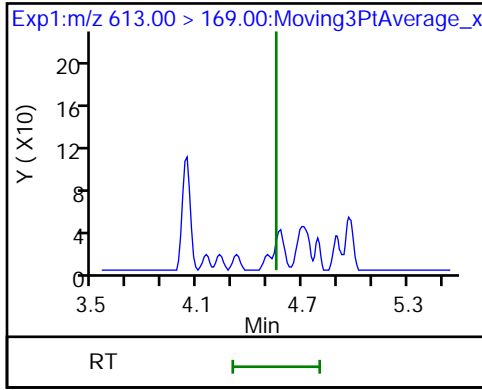




37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

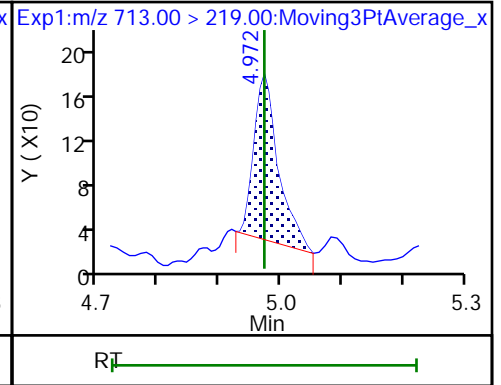
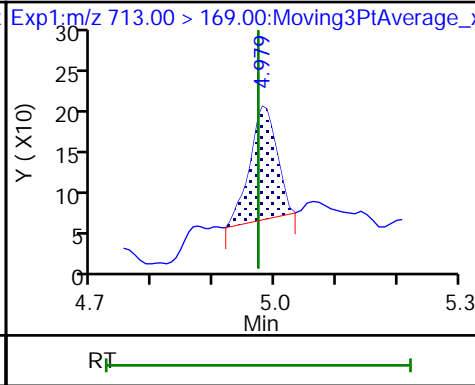
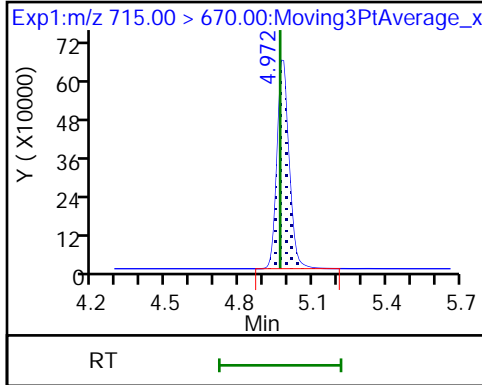
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)



Euofins TestAmerica, Burlington

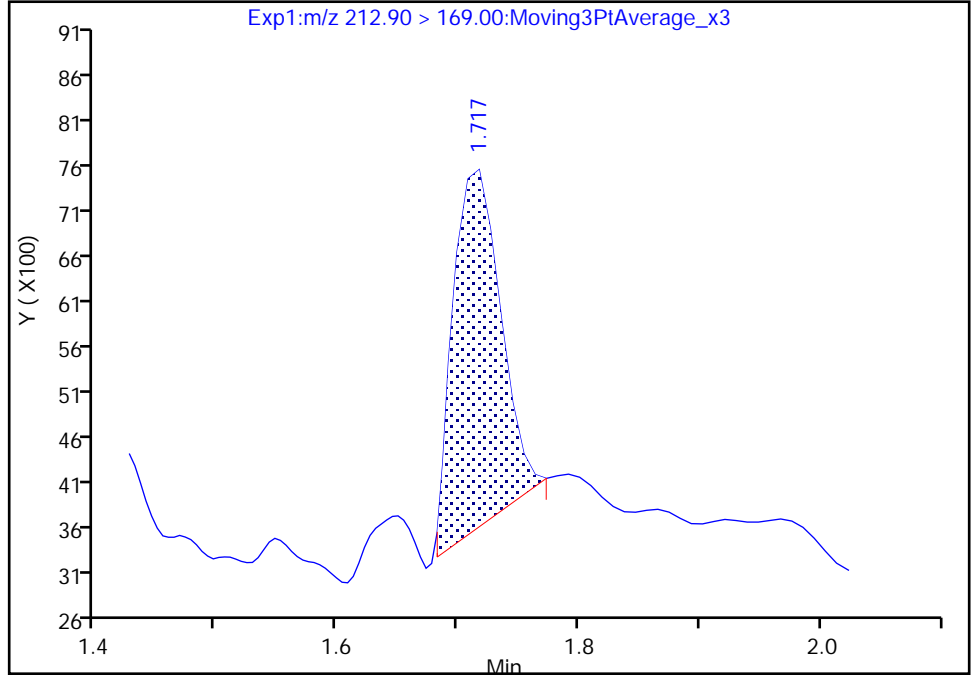
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

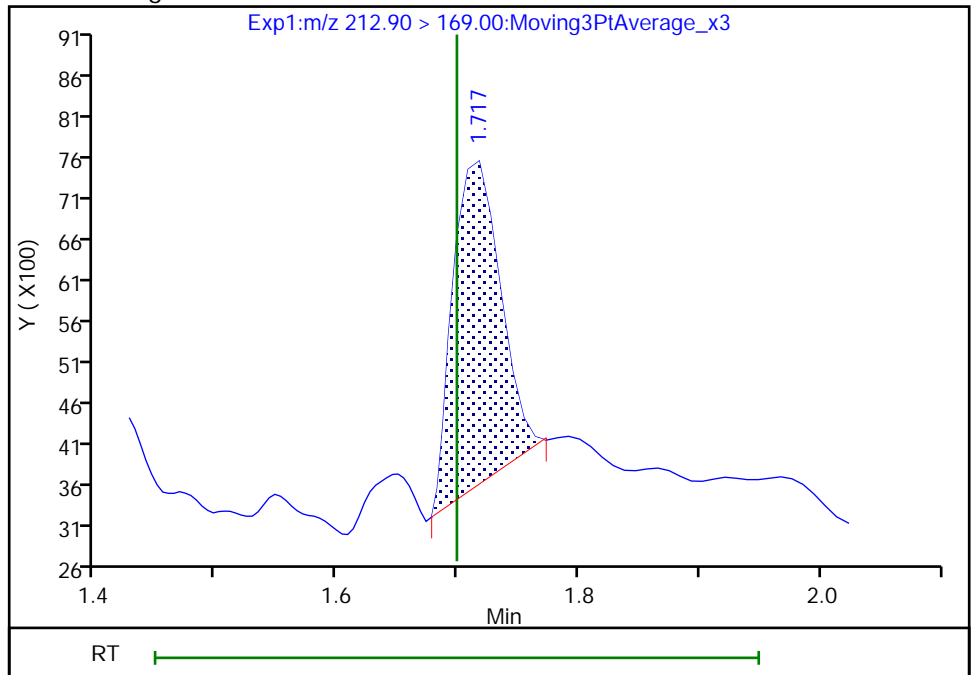
RT: 1.72  
Area: 10763  
Amount: 0.186248  
Amount Units: ng/ml

Processing Integration Results



RT: 1.72  
Area: 10789  
Amount: 0.186697  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:59:48

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

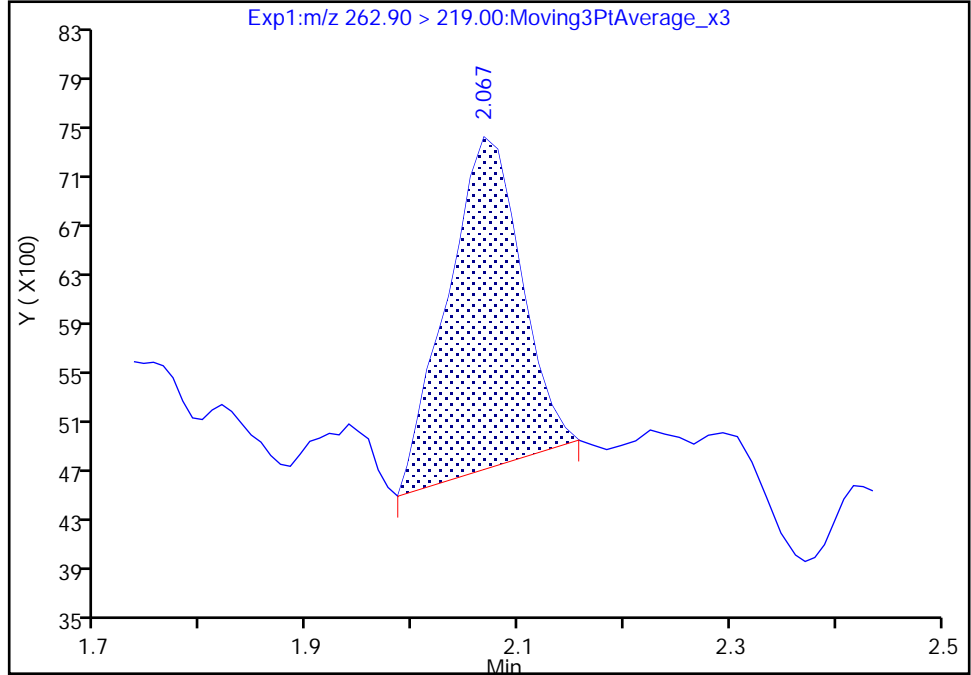
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

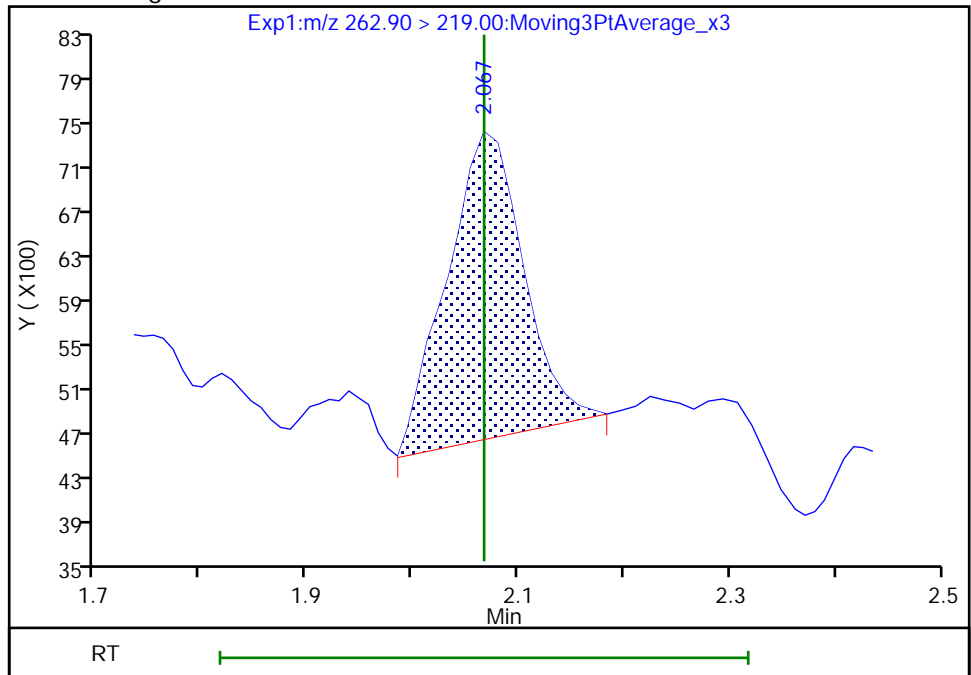
RT: 2.07  
Area: 12881  
Amount: 0.206143  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 13694  
Amount: 0.219154  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:59:54  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

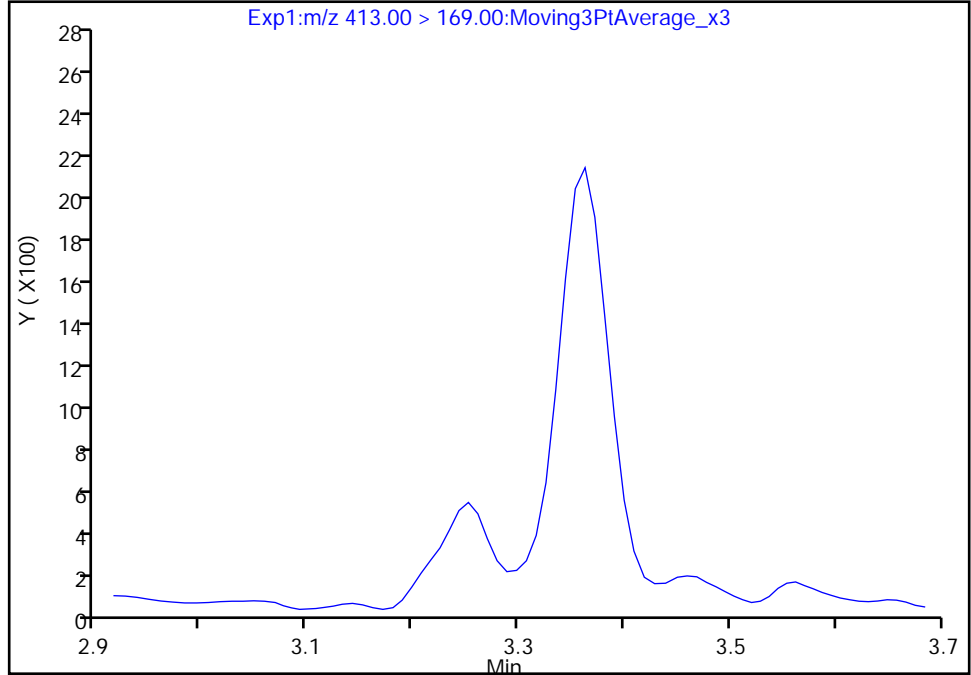
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

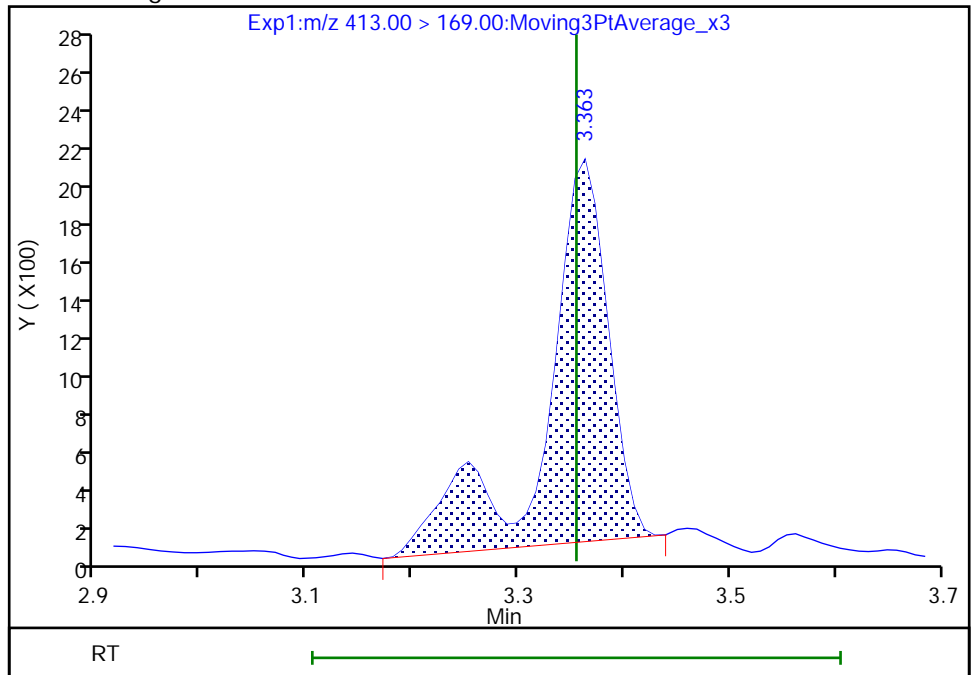
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.36  
Area: 8151  
Amount: 0.344593  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:00:31  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

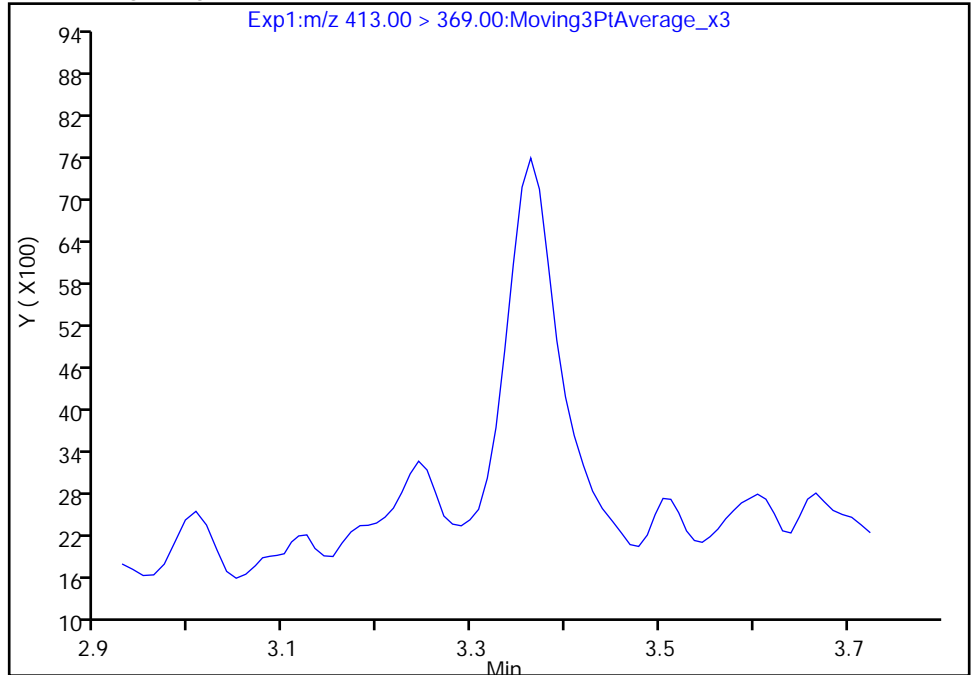
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

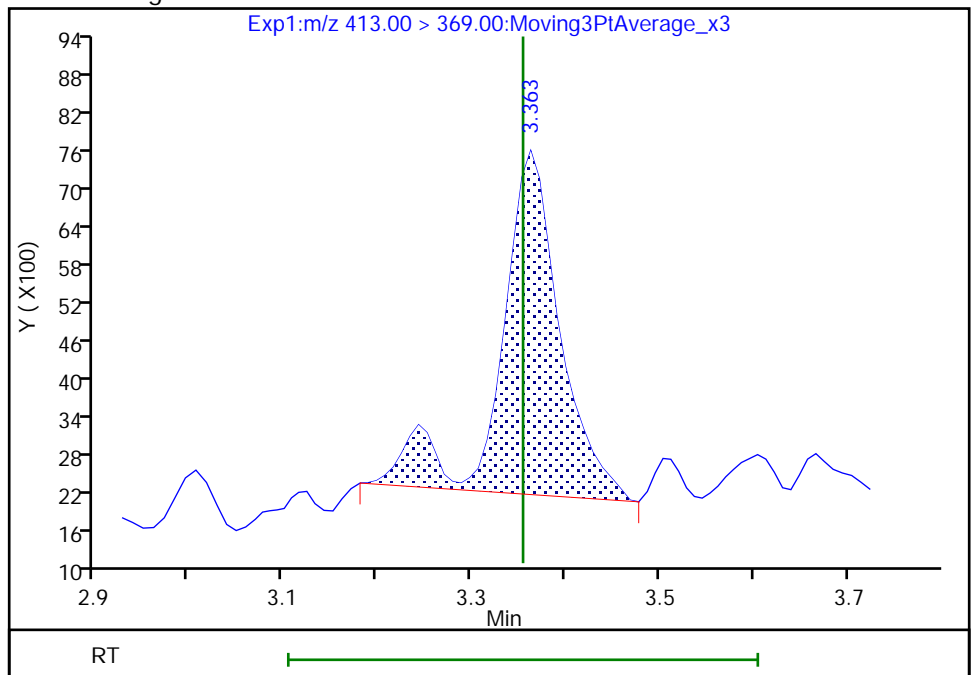
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.36  
Area: 23551  
Amount: 0.344593  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:00:35

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

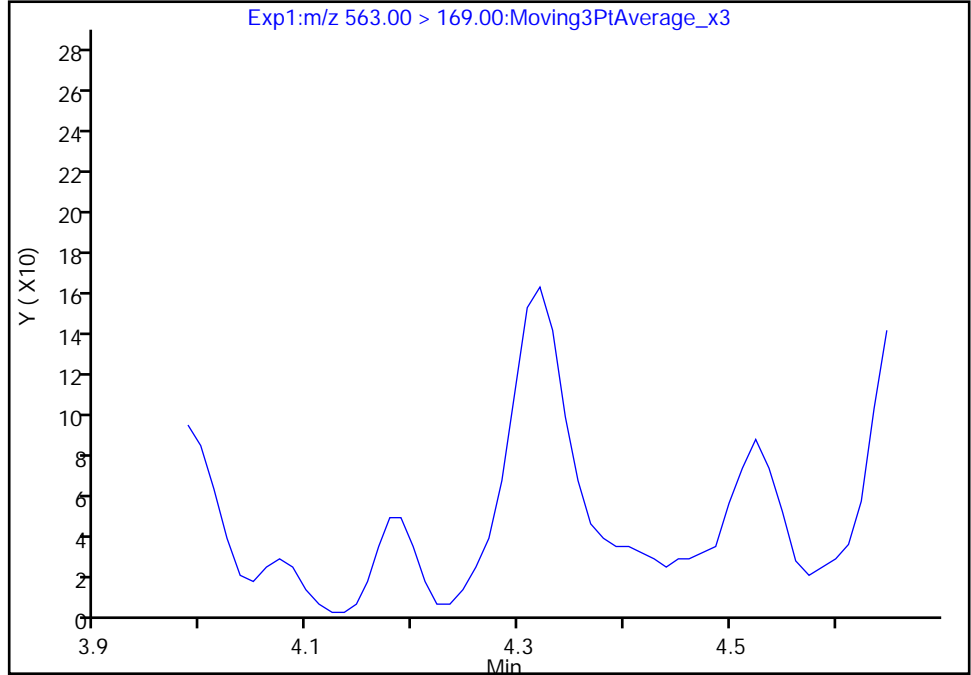
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

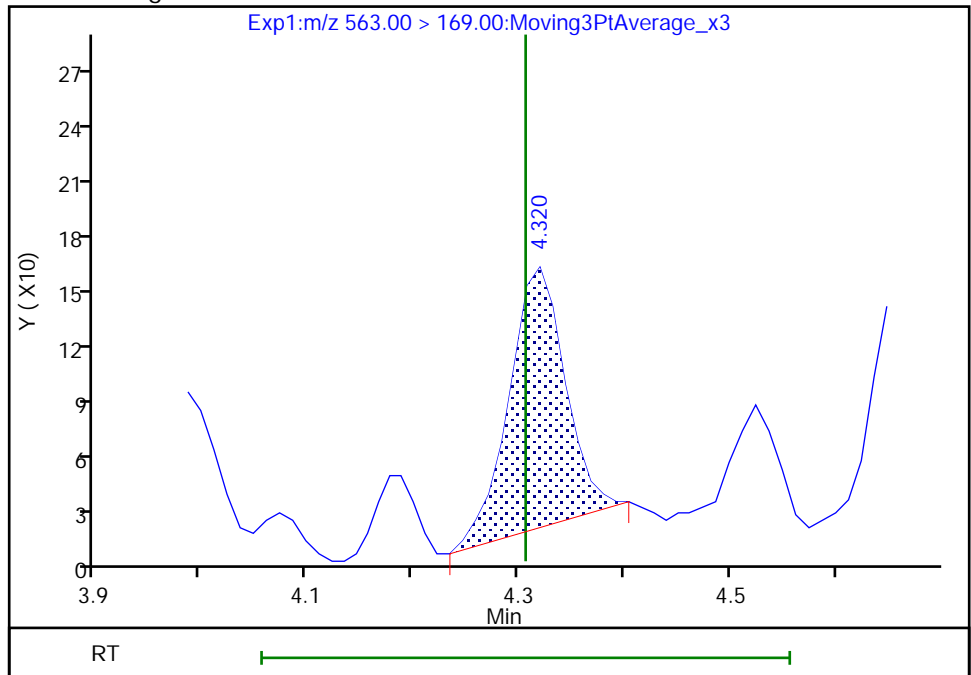
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 517  
Amount: 0.118550  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:01:39

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

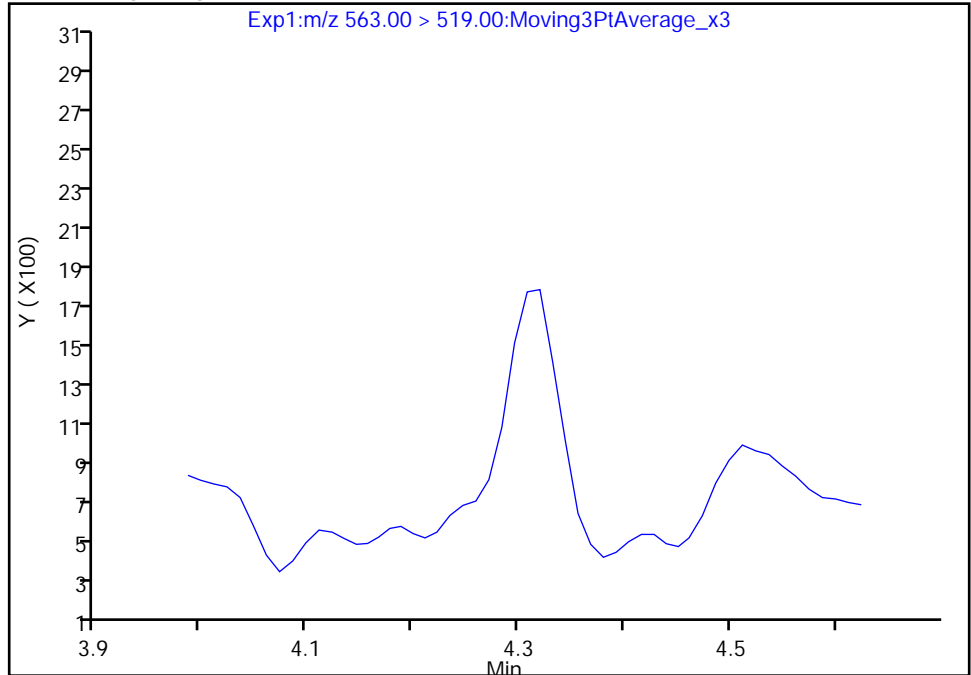
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

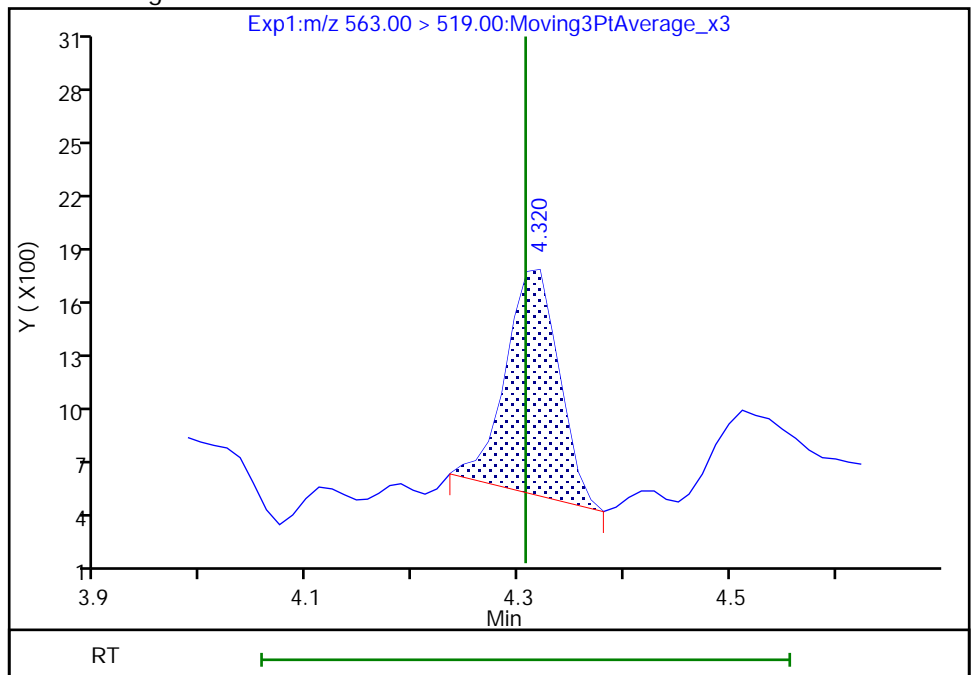
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 4224  
Amount: 0.118550  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:01:39

Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

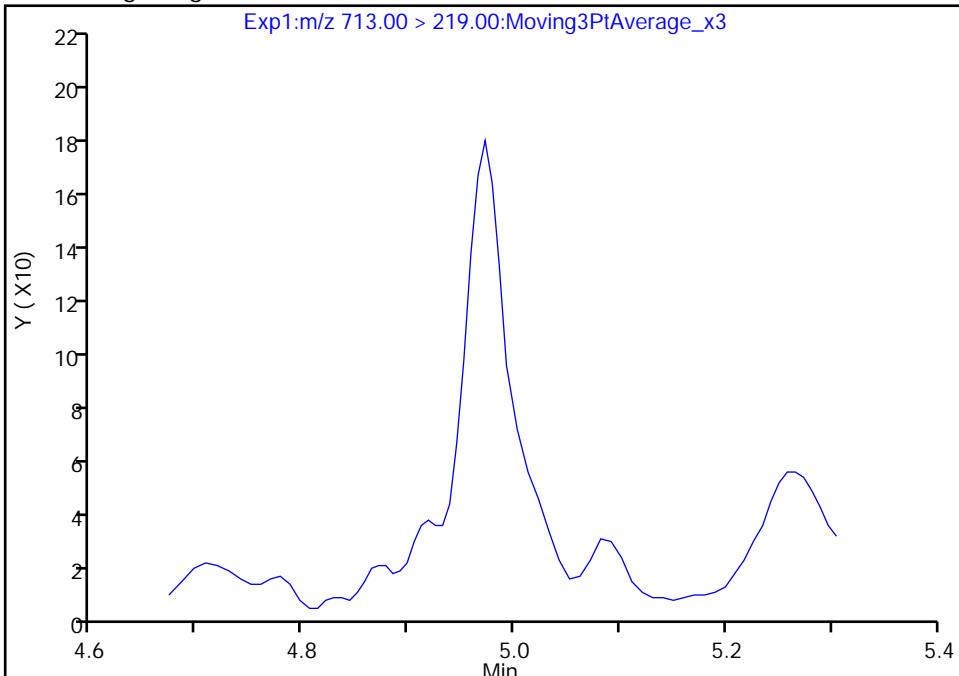
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

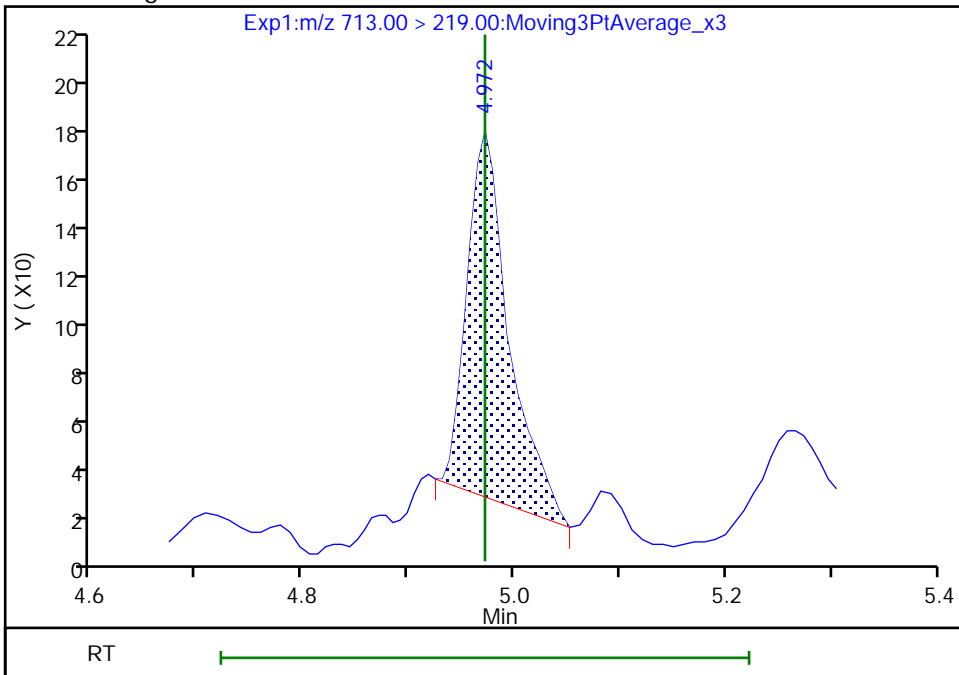
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 415  
Amount: 0.070949  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:01:56  
Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Burlington

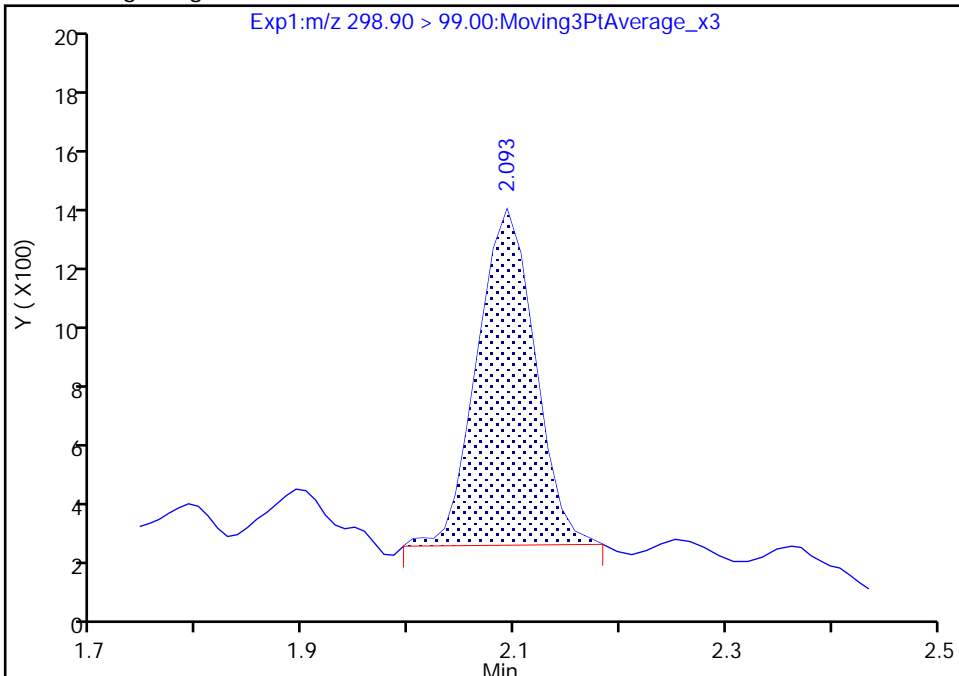
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

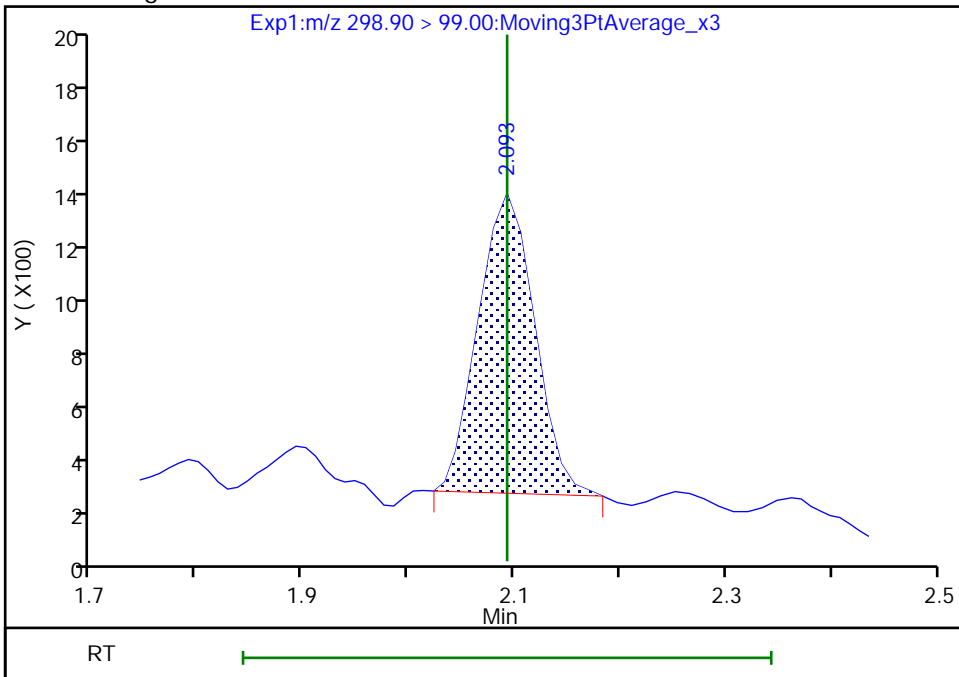
RT: 2.09  
Area: 4086  
Amount: 0.114330  
Amount Units: ng/ml

Processing Integration Results



RT: 2.09  
Area: 3940  
Amount: 0.114330  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:00:02  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

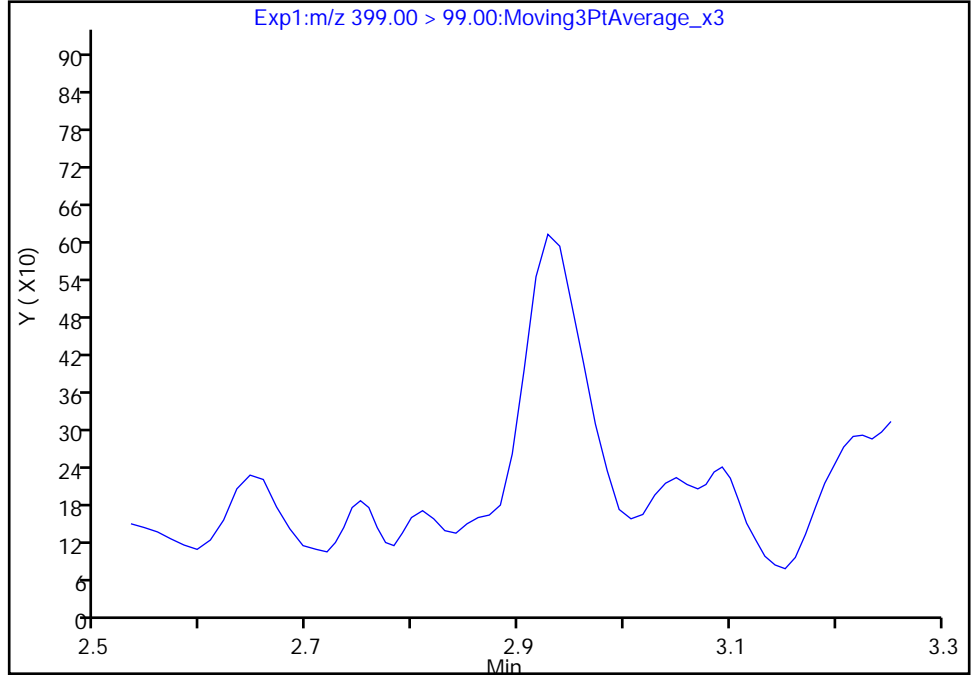
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

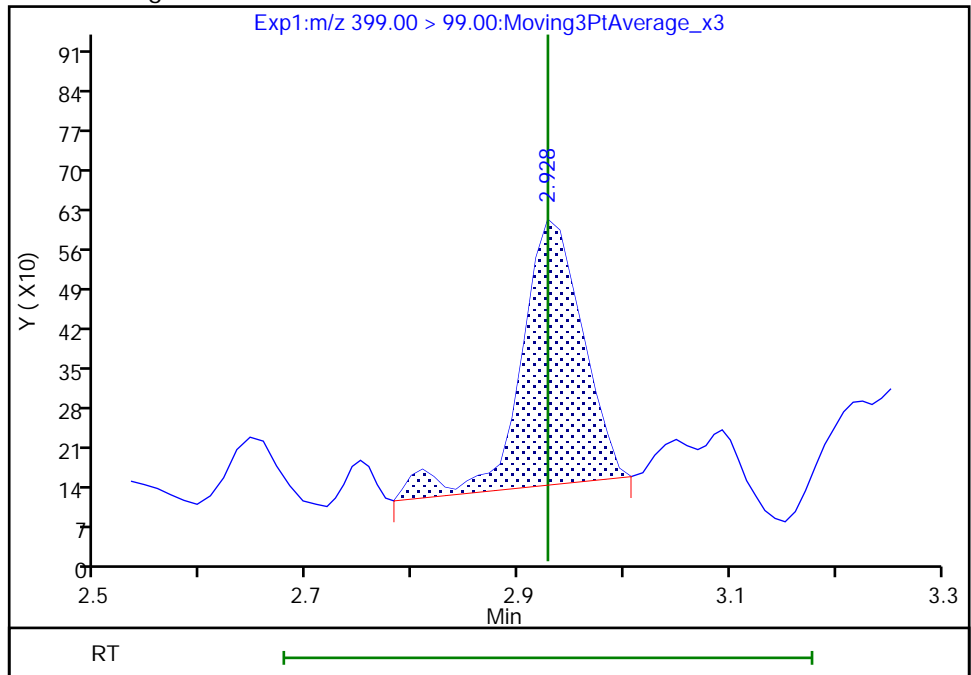
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 1925  
Amount: 0.170417  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:00:17  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

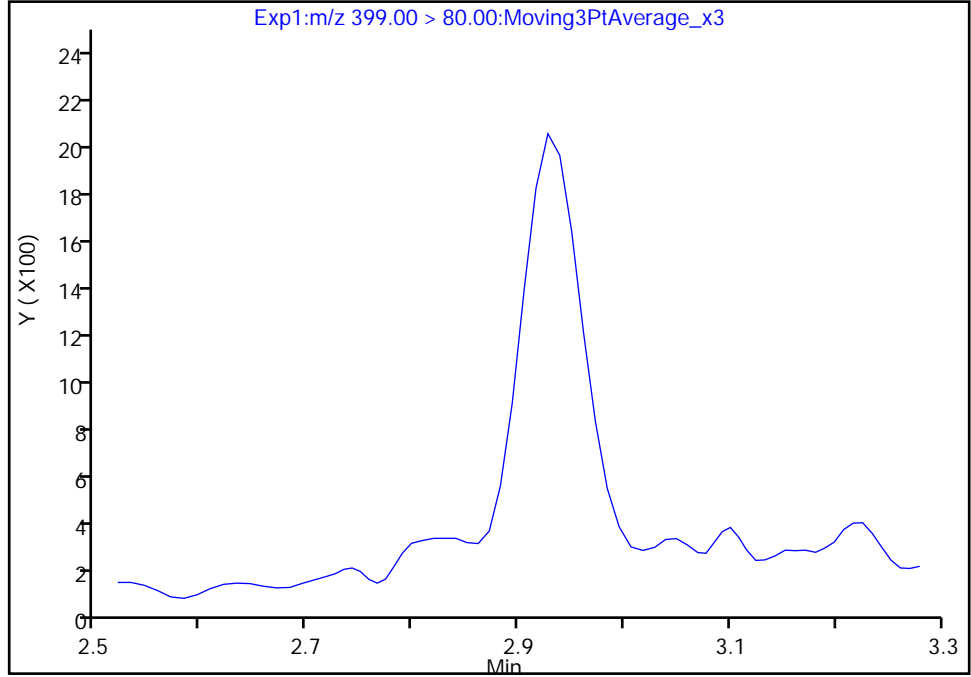
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

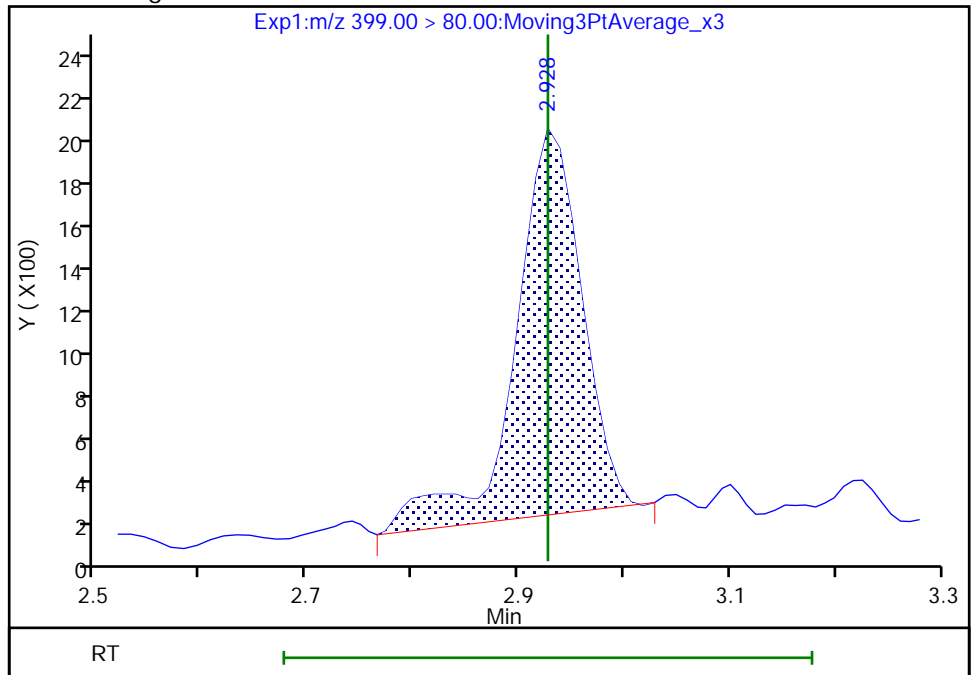
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 7921  
Amount: 0.170417  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:00:17

Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

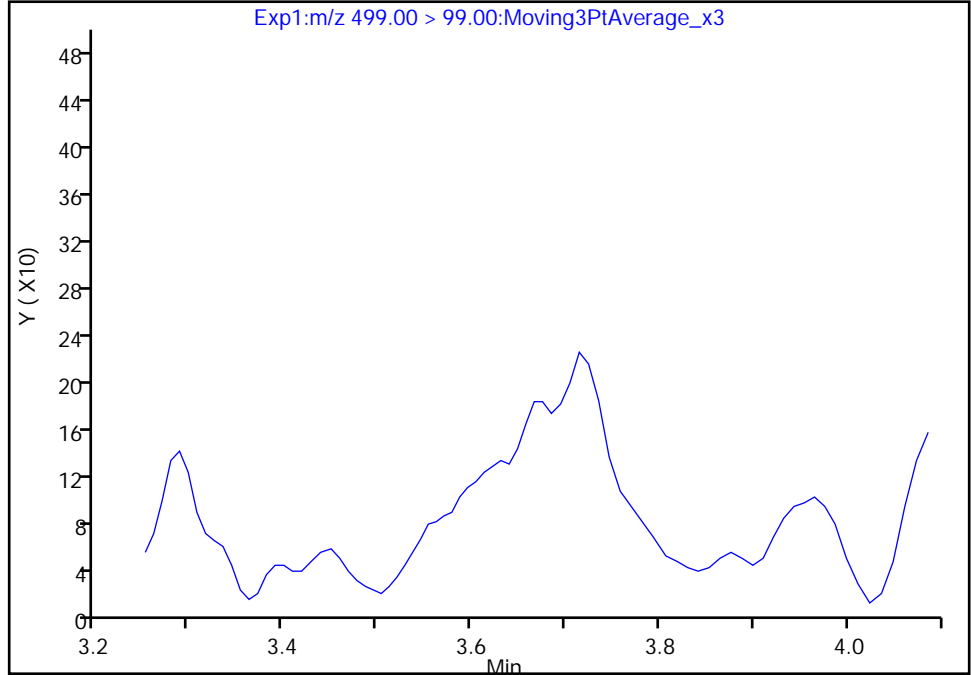
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

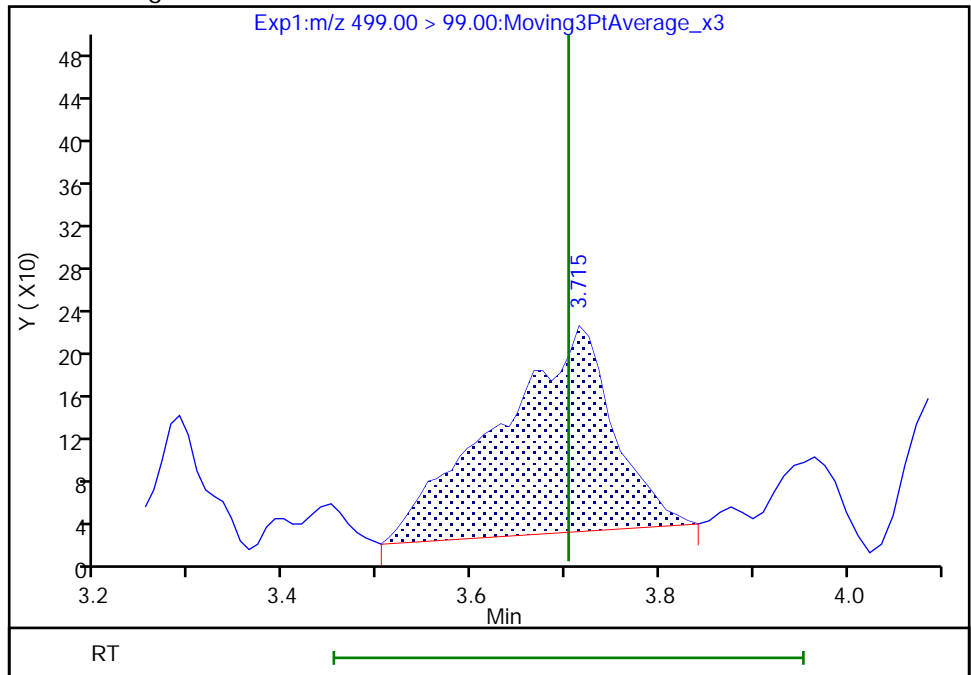
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.71  
Area: 1663  
Amount: 0.169877  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:00:49  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

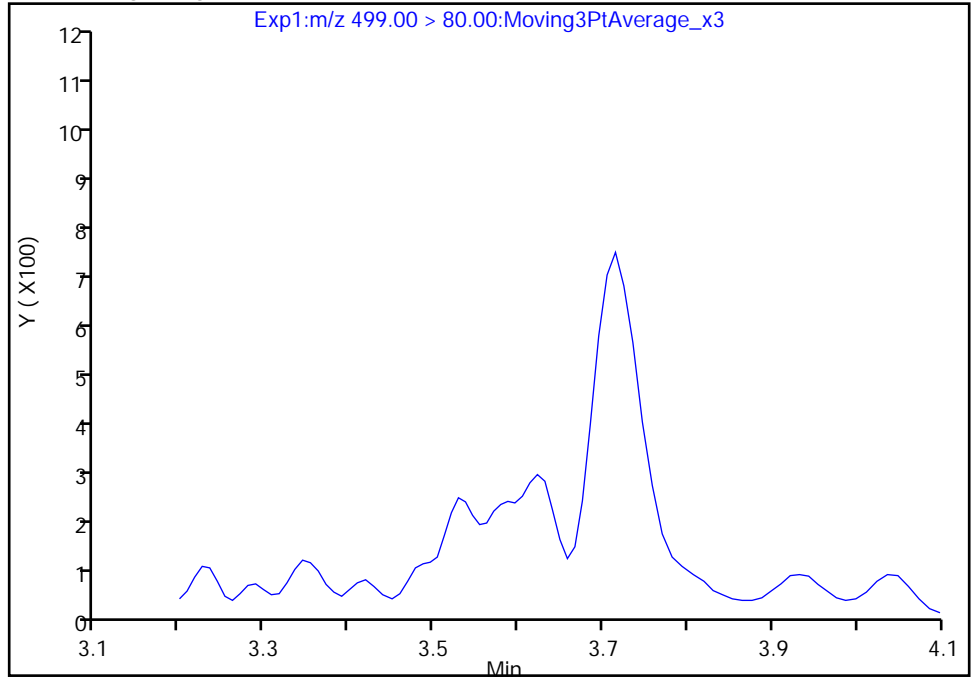
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

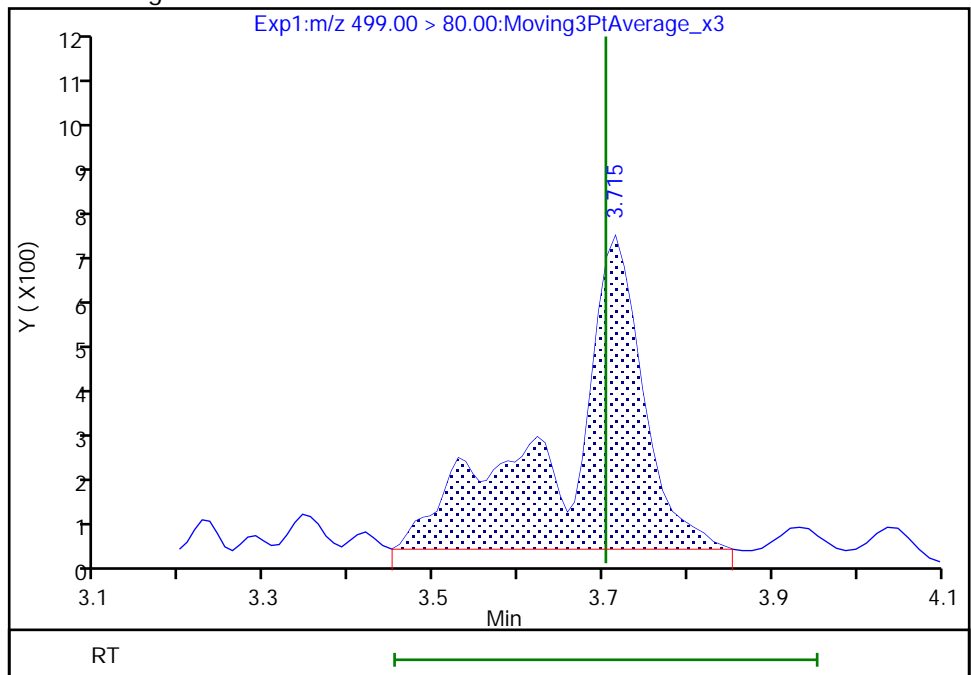
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.71  
Area: 4565  
Amount: 0.169877  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:00:55

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

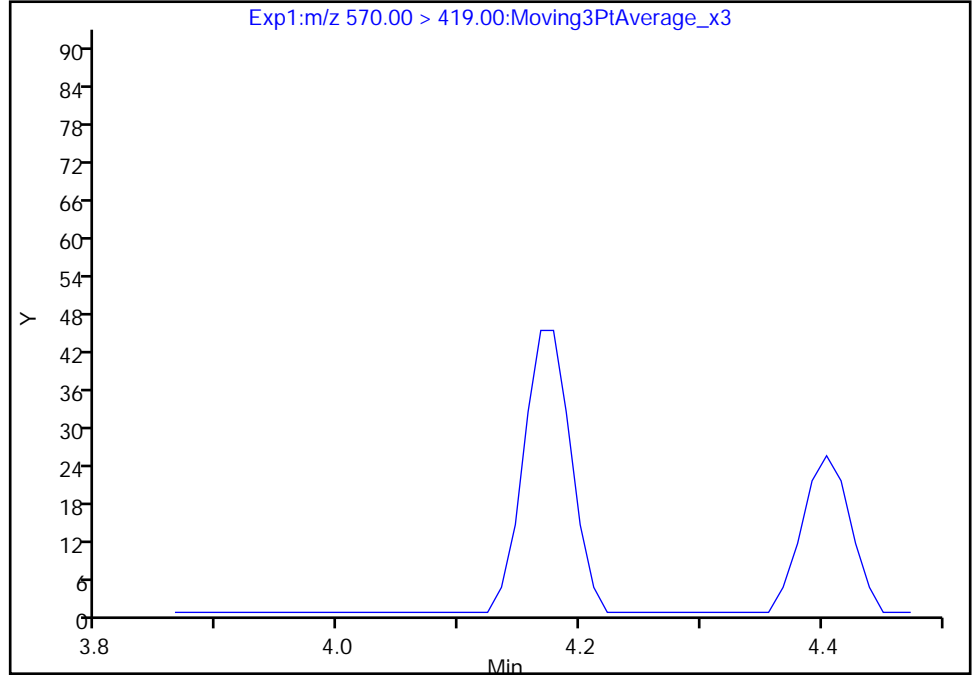
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E010.d  
Injection Date: 02-Aug-2019 05:01:38 Instrument ID: LC812  
Lims ID: 480-156213-F-7-A Lab Sample ID: 200-156213-7  
Client ID: 356023-MW11C  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 10  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

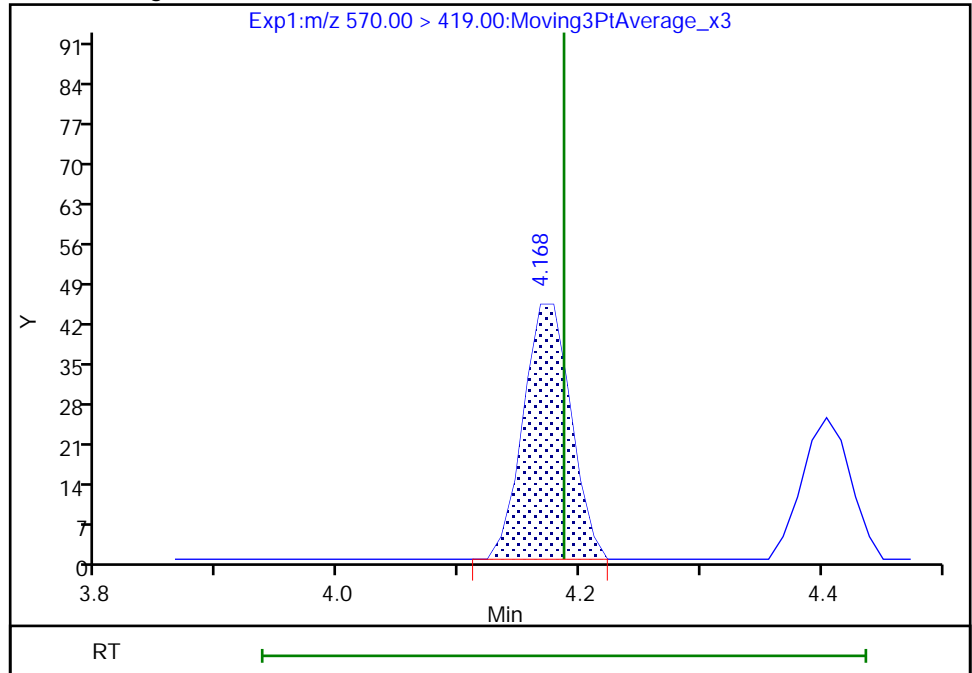
Not Detected  
Expected RT: 4.19

Processing Integration Results



RT: 4.17  
Area: 122  
Amount: 0.033018  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:01:08  
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5B Lab Sample ID: 480-156213-11  
 Matrix: Water Lab File ID: SC080119E011.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 13:10  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 313.3 (mL) Date Analyzed: 08/02/2019 05:09  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	4.2		1.6	0.80
2706-90-3	Perfluoropentanoic acid (PFPeA)	3.7		1.6	0.50
307-24-4	Perfluorohexanoic acid (PFHxA)	2.7		1.6	0.61
375-85-9	Perfluoroheptanoic acid (PFHpA)	1.0	J	1.6	0.73
335-67-1	Perfluorooctanoic acid (PFOA)	2.4		1.6	0.50
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.61
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.42
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.47
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.73
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.0	J	1.6	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.64
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.0		1.6	0.49
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.0	8.0
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.7
39108-34-4	8:2 FTS	ND		16	2.3

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5B Lab Sample ID: 480-156213-11  
 Matrix: Water Lab File ID: SC080119E011.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 13:10  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 313.3 (mL) Date Analyzed: 08/02/2019 05:09  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	68		25-150
STL00992	13C4 PFBA	79		25-150
STL01893	13C5 PFPeA	84		25-150
STL00993	13C2 PFHxA	85		50-150
STL01892	13C4 PFHpA	87		50-150
STL00990	13C4 PFOA	84		50-150
STL00995	13C5 PFNA	90		50-150
STL00996	13C2 PFDA	85		50-150
STL00997	13C2 PFUnA	75		50-150
STL00998	13C2 PFDoA	73		50-150
STL02116	13C2 PFTeDA	63		50-150
STL02337	13C3 PFBS	94		50-150
STL00994	18O2 PFHxS	94		50-150
STL00991	13C4 PFOS	80		50-150
STL02118	d3-NMeFOSAA	62		50-150
STL02117	d5-NEtFOSAA	62		50-150
STL02279	M2-6:2 FTS	105		25-150
STL02280	M2-8:2 FTS	97		25-150



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
 Lims ID: 480-156213-F-11-A  
 Client ID: 356023-MW5B  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 05:09:41 ALS Bottle#: 4 Worklist Smp#: 11  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-11-A  
 Misc. Info.: 200-0037095-011 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:05:49  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.508	3111830	39.4	78.8	11409	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.000	150197	2.62		24.8	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	3102522	41.8	83.7	5577	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	138215	2.30		5.8	M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	3182067	43.7	93.9	344150	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	43823	0.6299	Target=1.90	12.2	M
	298.90 > 99.00	2.093	2.093	0.0	1.000	22664		1.93(0.95-2.85)	12.2	
D 7 13C2 PFHxA	315.00 > 270.00	2.471	2.459	0.012	0.734	3113988	42.3	84.6	5983	
6 Perfluorohexanoic acid	313.00 > 269.00	2.471	2.459	0.012	1.000	107216	1.67	Target=13.23	13.8	M
	313.00 > 119.00	2.471	2.459	0.012	1.000	7450		14.39(6.61-19.84)	11.3	
D 11 18O2 PFHxS	403.00 > 84.00	2.939	2.916	0.023	0.874	1905956	44.7	94.5	6158	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.874	3155613	43.7	87.5	7458	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.939	2.928	0.011	1.000	15431	0.2906	Target=3.37	8.9	M
	399.00 > 99.00	2.939	2.928	0.011	1.000	5694		2.71(1.69-5.06)	5.2	M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.939	2.928	0.011	1.000	36943	0.6249	Target=3.76	5.6	M
	363.00 > 169.00	2.939	2.928	0.011	1.000	10502		3.52(1.88-5.65)	30.1	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.345	3.335	0.010	0.995	444131	50.0		105	536	
13 1H,1H,2H,2H-perfluorooctanesulfonyl fluoride										
427.00 > 407.00	3.345	3.336	0.009	1.000	10008	0.6241			20.8	
D 14 13C4 PFOA										
417.00 > 372.00	3.364	3.344	0.020	1.000	3187534	41.8		83.7	10949	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.364	3.355	0.009	1.000	104960	1.51	Target=2.84	8.9		Ma
413.00 > 169.00	3.364	3.355	0.009	1.000	52342		2.01(1.42-4.25)	142		M
* 62 13C2 PFOA										
415.00 > 370.00	3.364	3.355	0.009		4189298	50.0			10216	
D 18 13C4 PFOS										
503.00 > 80.00	3.713	3.695	0.018	1.104	1351163	38.0		79.5	2947	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.603	3.703	-0.100	0.970	32714	1.22	Target=4.33	45.0		M
499.00 > 99.00	3.713	3.703	0.010	1.000	5637		5.80(2.16-6.49)	7.4		M
D 19 13C5 PFNA										
468.00 > 423.00	3.734	3.715	0.019	1.110	3115023	44.8		89.6	15497	
20 Perfluorononanoic acid										
463.00 > 419.00	3.734	3.723	0.011	1.000	7055	0.1250	Target=8.15	2.1		M
463.00 > 169.00	3.734	3.723	0.011	1.000	1364		5.17(4.08-12.23)	10.4		M
D 23 13C2 PFDA										
515.00 > 470.00	4.047	4.036	0.011	1.203	2366598	42.6		85.1	13271	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.059	4.036	0.023	1.207	380253	46.4		96.9	761	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.059	4.047	0.012	1.003	4201	0.0917	Target=9.58	1.5		M
513.00 > 169.00	4.059	4.047	0.012	1.003	537		7.82(4.79-14.37)	3.5		M
D 21 13C8 FOSA										
506.00 > 78.00	4.084	4.061	0.023	1.214	2160312	33.8		67.7	8806	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.084	4.072	0.012	1.000	3812	0.0966			30.6	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.178	0.009	1.245	218536	30.8		61.5	1804	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.284	1908568	37.7		75.4	8199	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.307	0.012	1.000	2543	0.0776	Target=7.95	1.3		RM
563.00 > 169.00	4.319	4.307	0.012	1.000	1031		2.47(3.98-11.93)	9.1		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.331	4.308	0.023	1.287	246779	31.2		62.4	1060	
33 N-ethylperfluorooctanesulfonamide										
584.00 > 419.00	4.319	4.319	0.0	0.997	275	0.0871			2.6	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.537	0.012	1.352	1992903	36.6		73.1	6702	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.965	0.014	1.480	2364725	31.5		63.0	7830	

## QC Flag Legend

### Processing Flags

R - Failed Signal Ratio Test

### Review Flags

M - Manually Integrated

a - User Assigned ID

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d

Injection Date: 02-Aug-2019 05:09:41

Instrument ID: LC812

Lims ID: 480-156213-F-11-A

Lab Sample ID: 200-156213-11

Client ID: 356023-MW5B

Operator ID: lc812tech

ALS Bottle#: 4

Worklist Smp#: 11

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

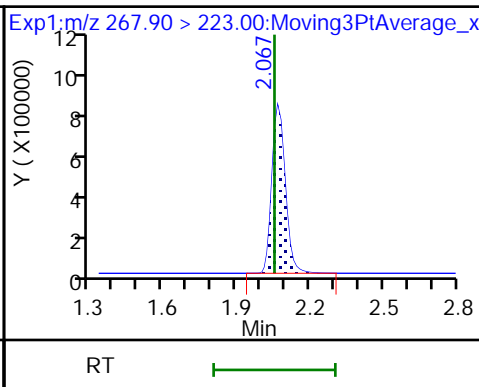
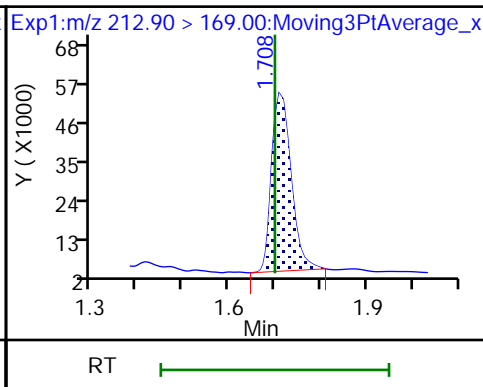
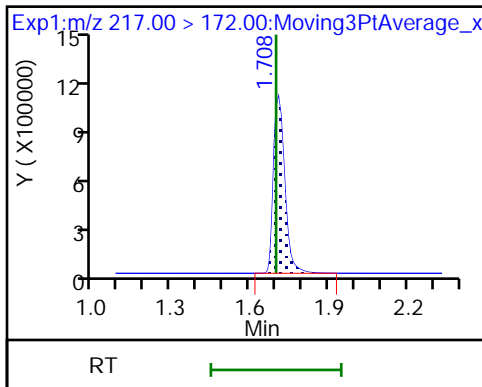
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

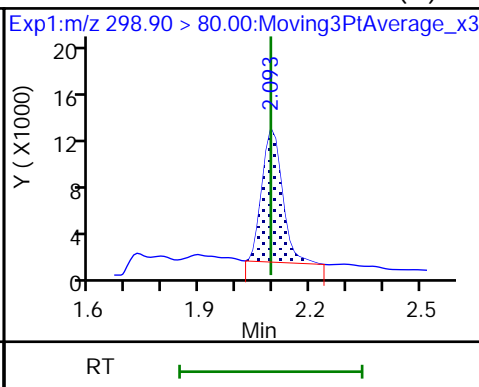
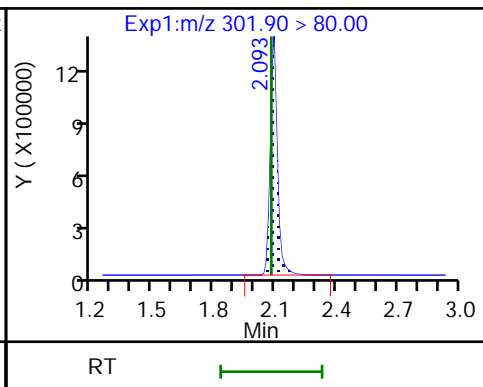
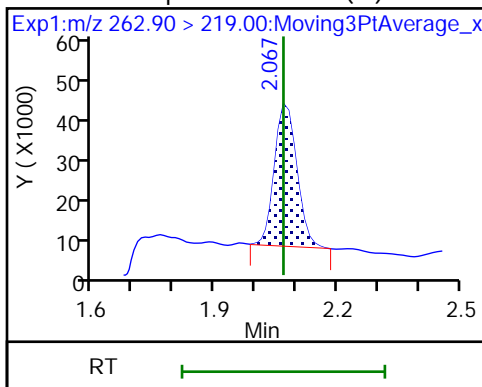
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

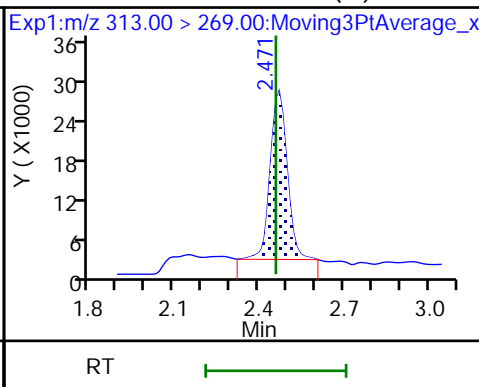
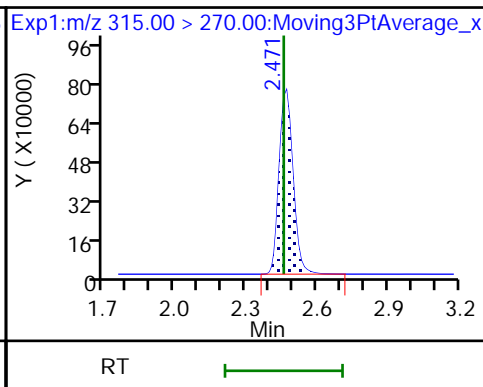
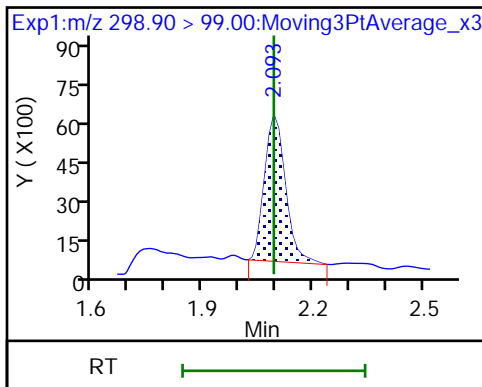
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

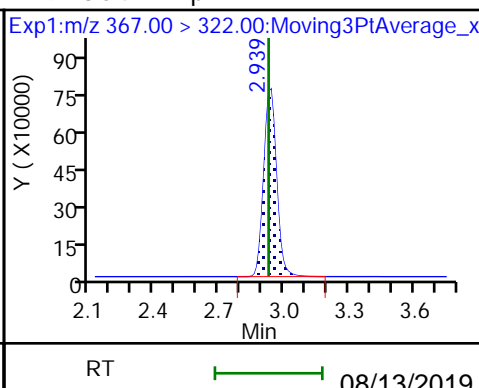
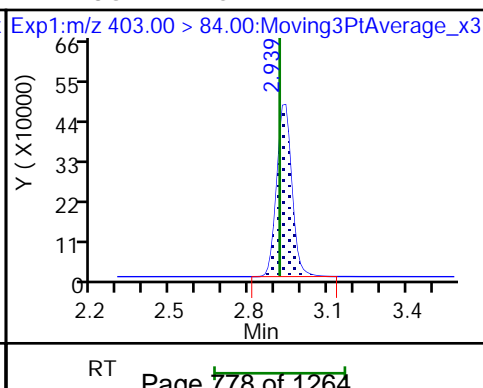
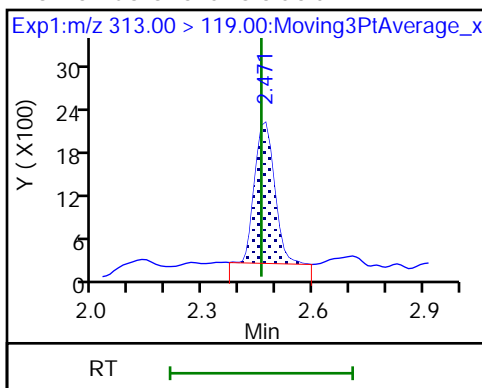
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid

D 11 18O2 PFHxS

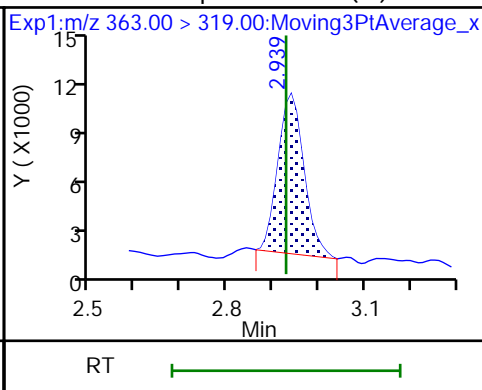
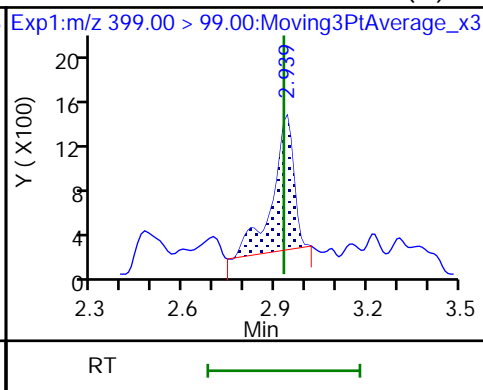
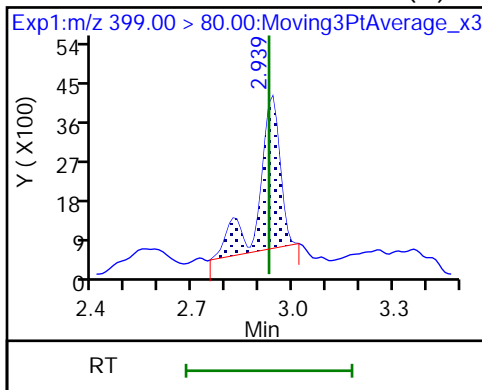
D 9 13C4 PFHpA



8 Perfluorohexanesulfonic acid (M)

8 Perfluorohexanesulfonic acid (M)

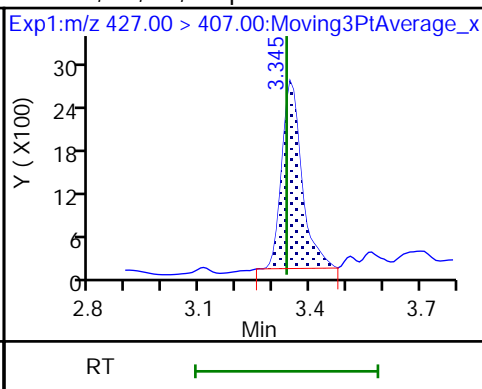
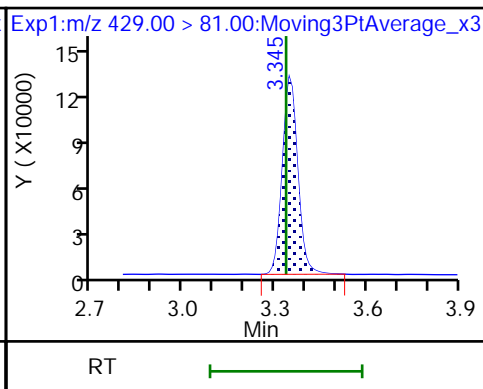
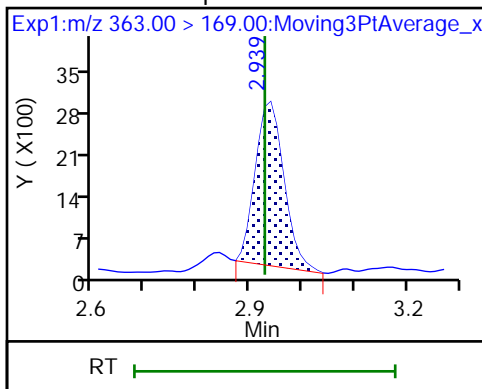
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid

D 12 M2-6:2 FTS

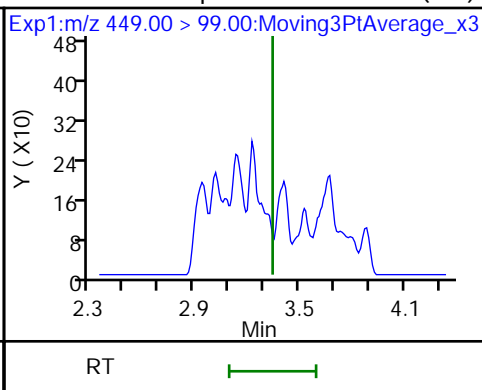
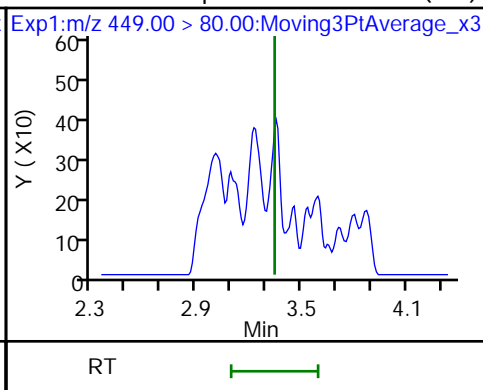
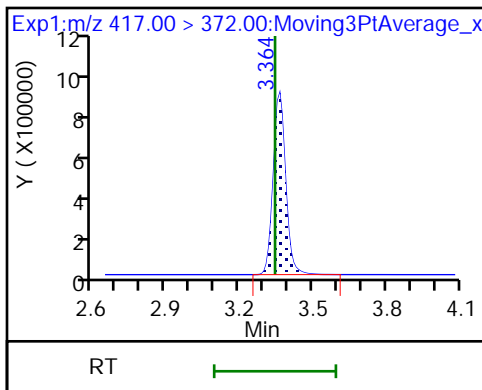
13 1H,1H,2H,2H-perfluorooctanesulfoni



D 14 13C4 PFOA

16 Perfluoroheptanesulfonic acid (ND)

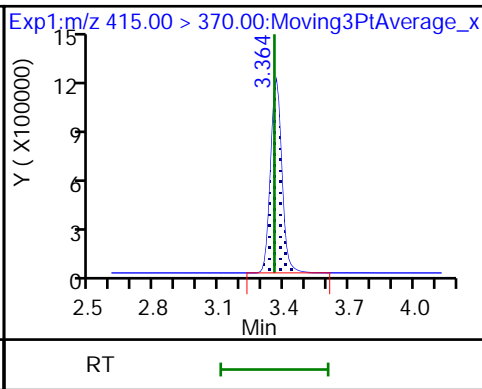
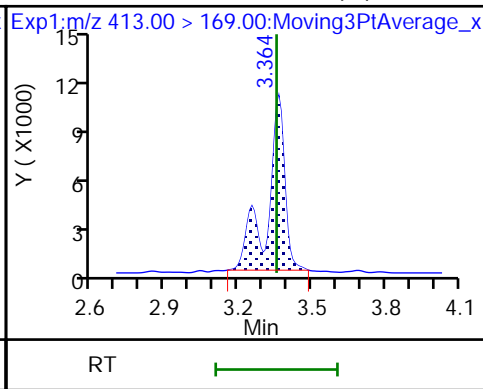
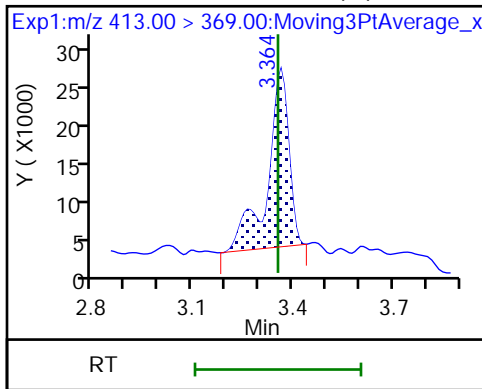
16 Perfluoroheptanesulfonic acid (ND)



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

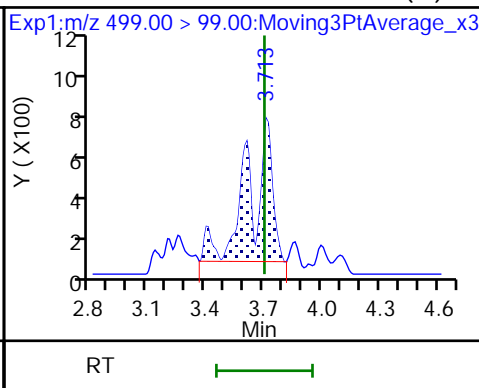
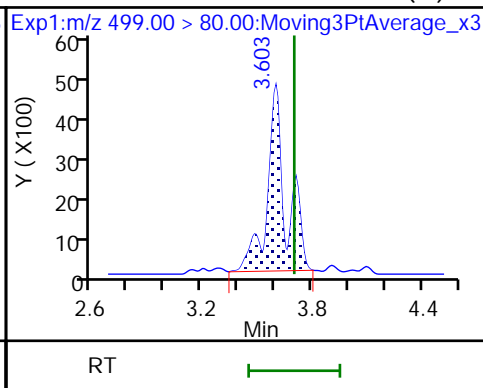
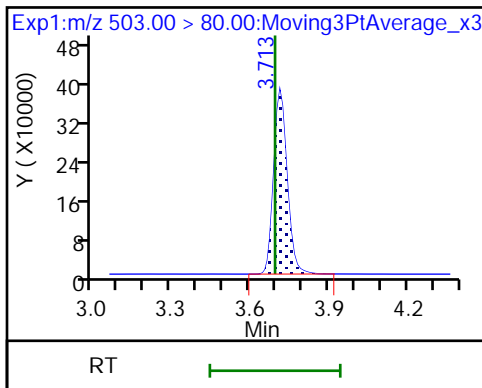
\* 62 13C2 PFOA



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

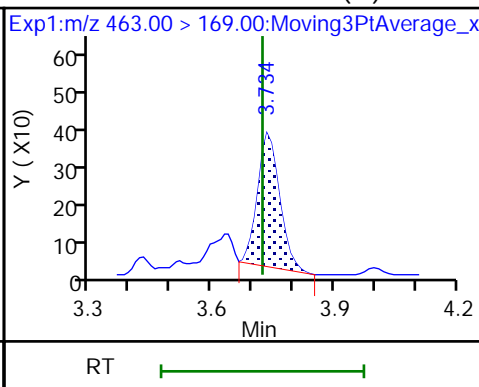
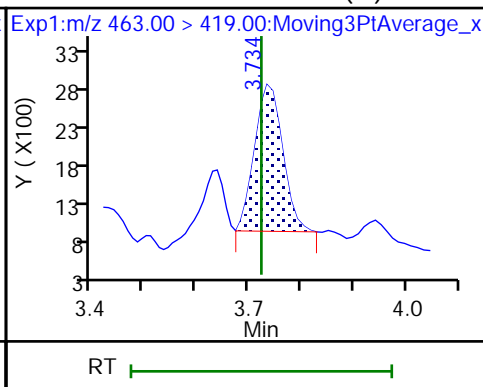
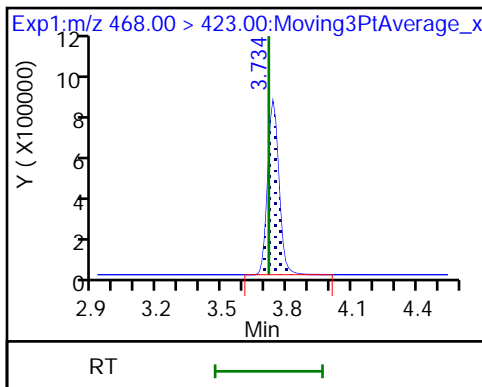
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

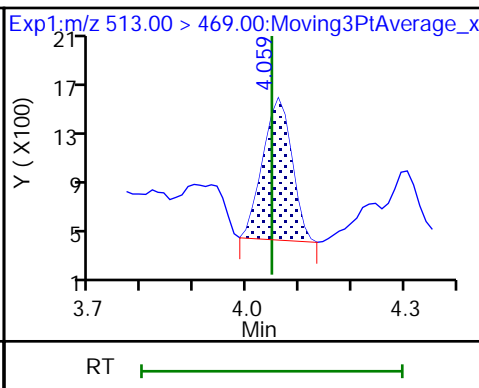
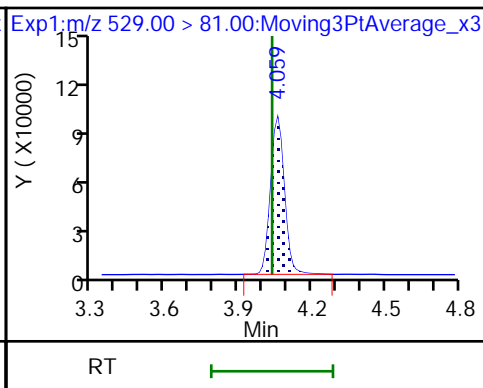
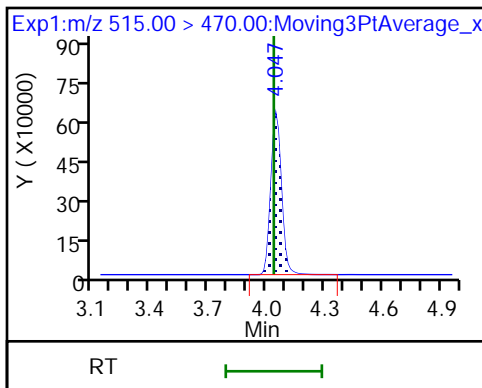
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

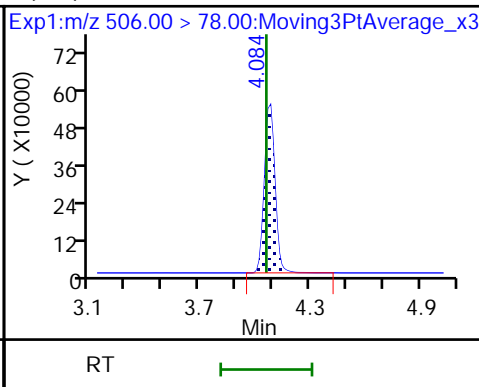
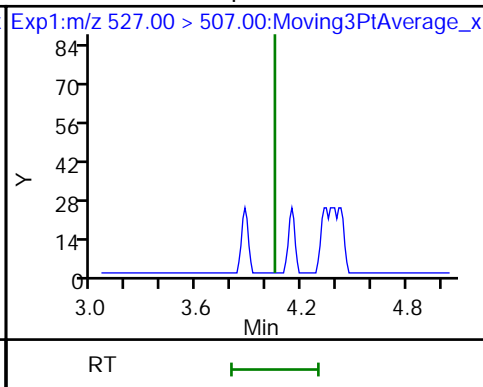
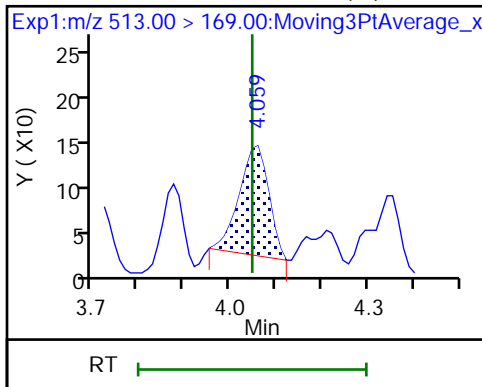
24 Perfluorodecanoic acid



24 Perfluorodecanoic acid (M)

25 1H,1H,2H,2H-perfluorodecanesulfonate (M)

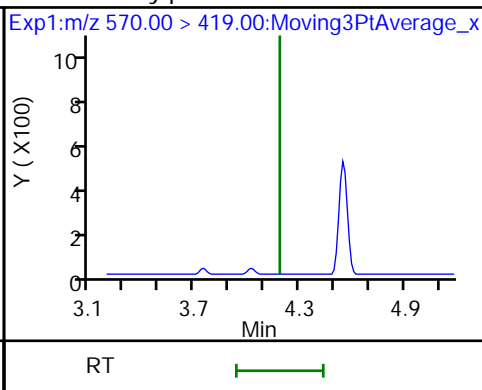
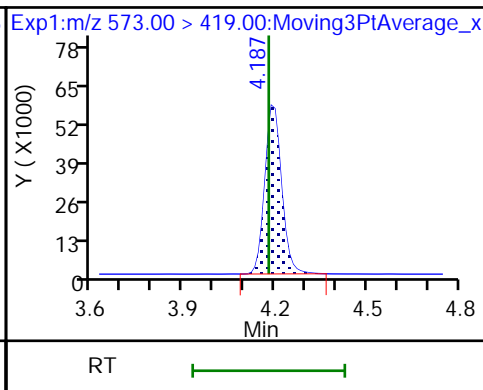
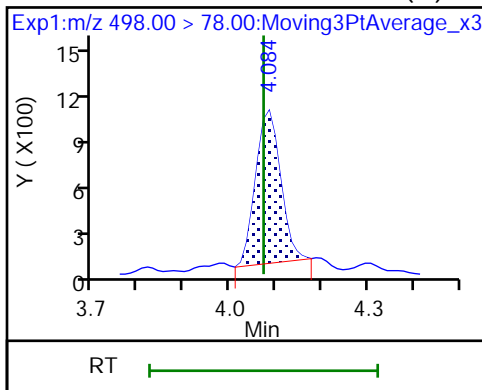
(M) 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

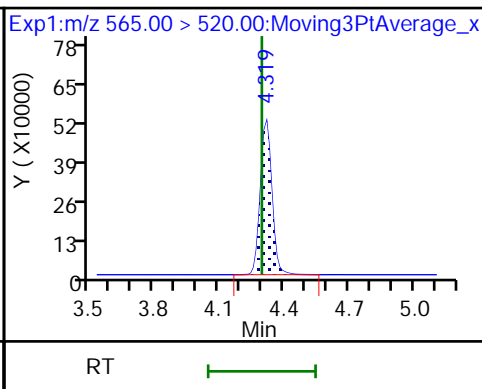
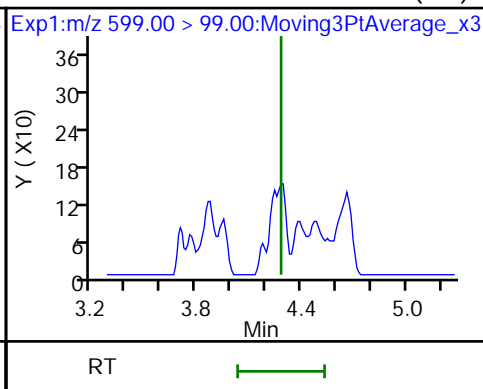
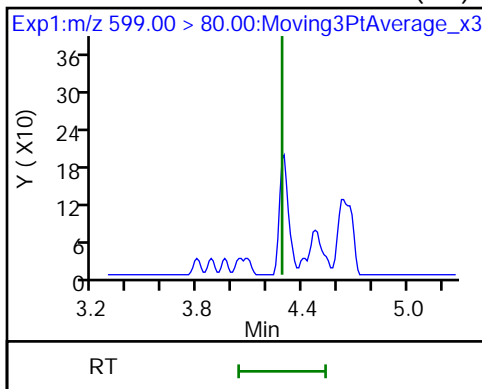
28 N-methylperfluorooctanesulfonamido (ND)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

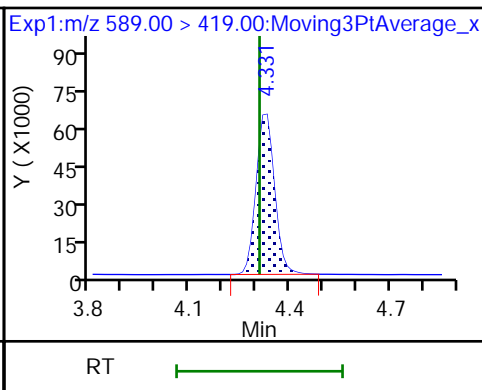
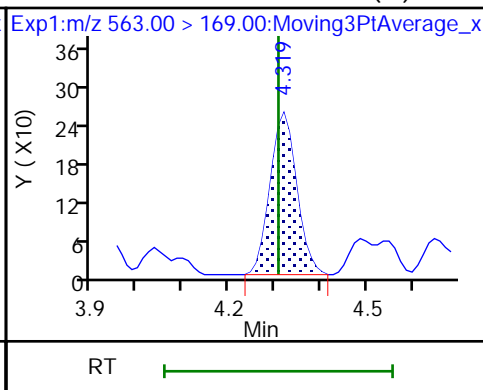
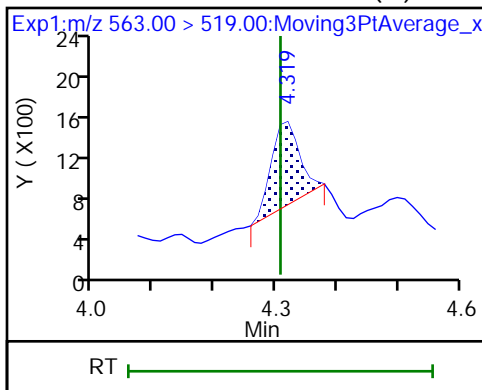
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

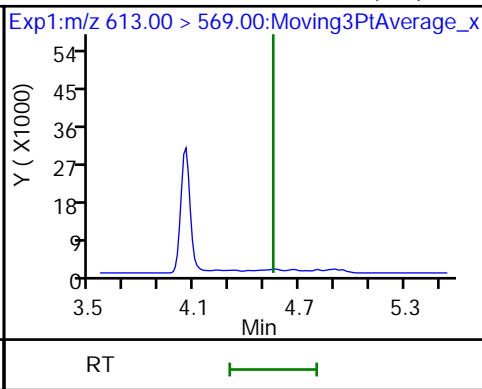
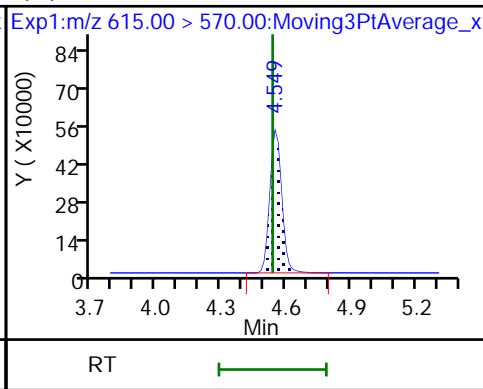
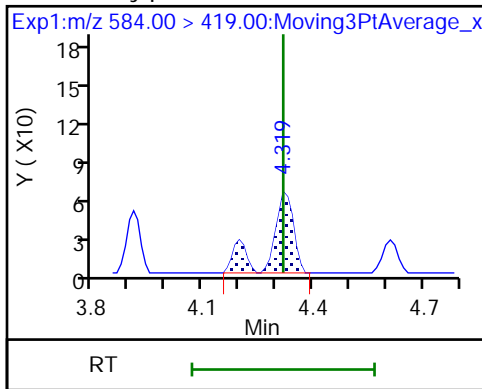
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (M)

D 36 13C2 PFDoA

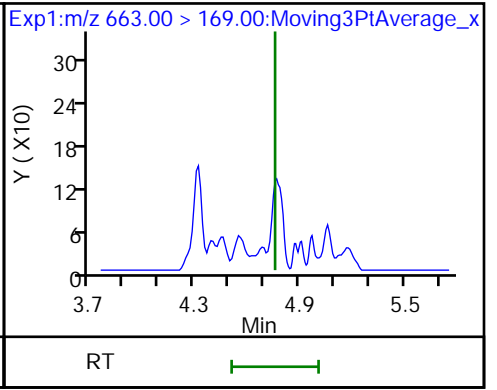
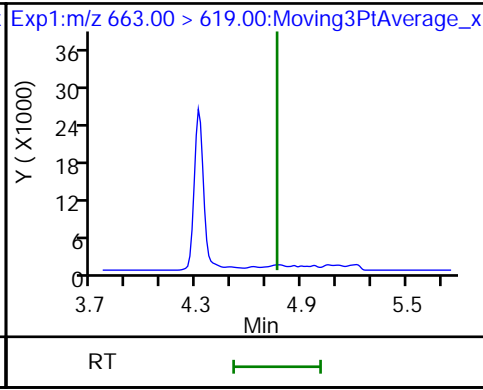
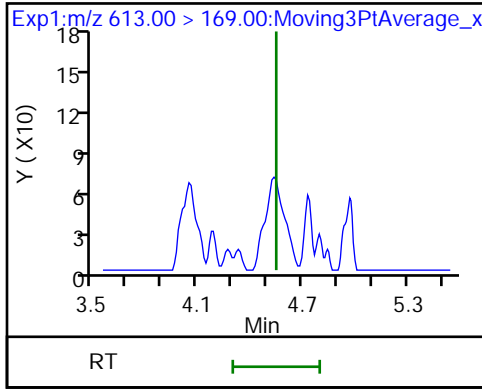
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

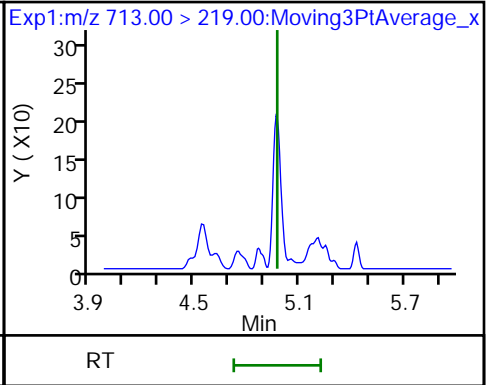
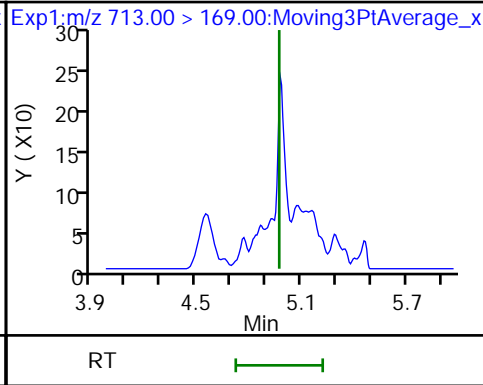
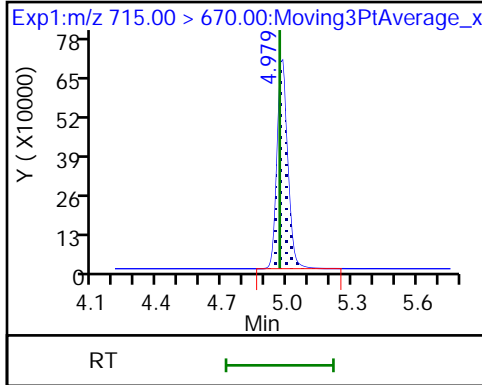
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)





Eurofins TestAmerica, Burlington

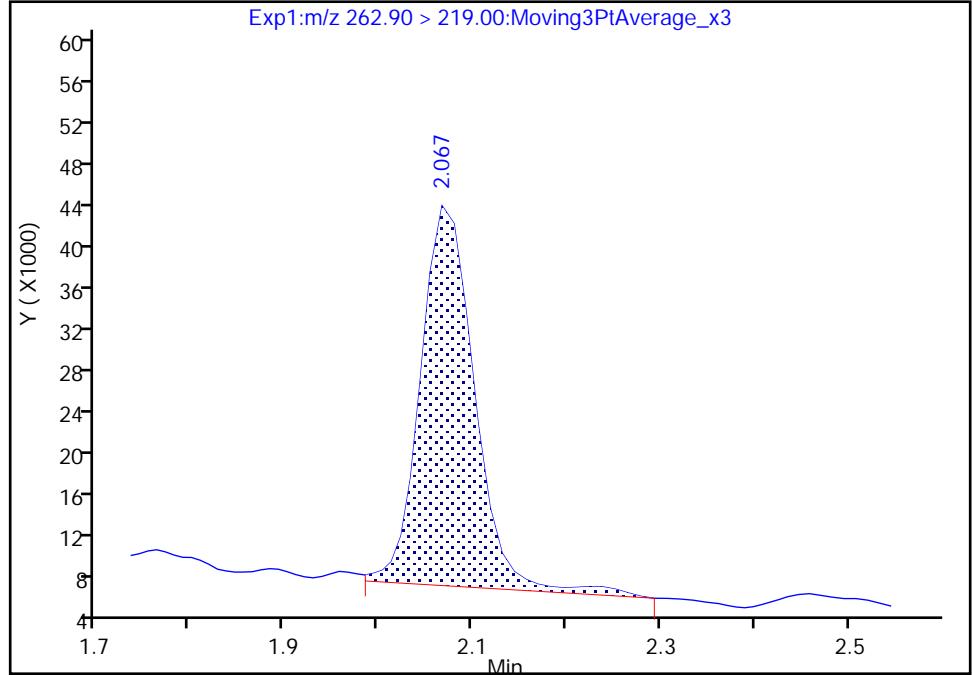
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

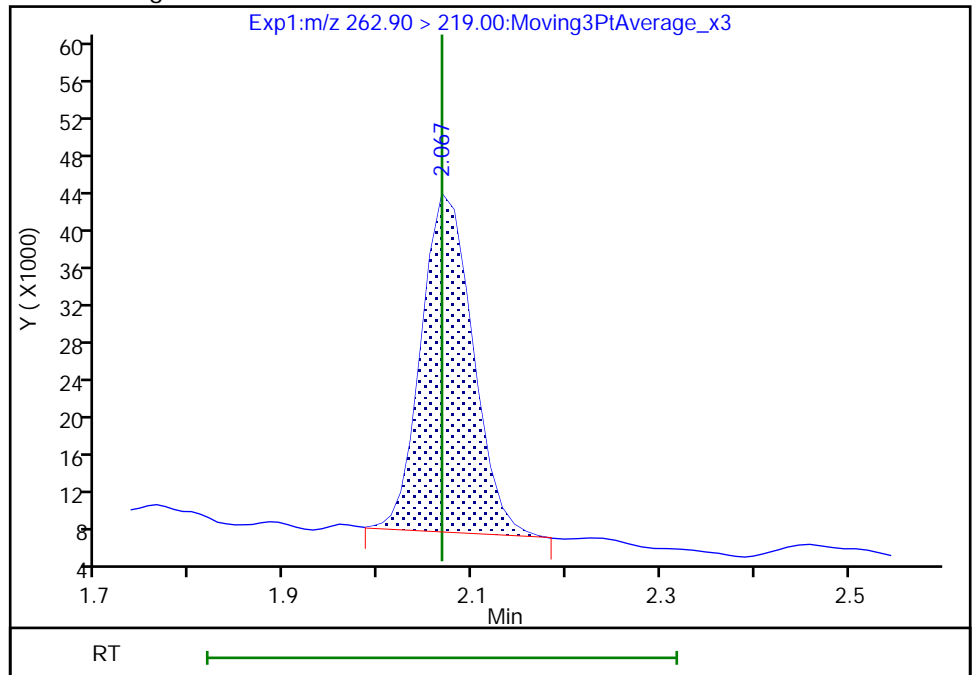
RT: 2.07  
Area: 148019  
Amount: 2.465173  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 138215  
Amount: 2.301893  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:02:42  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

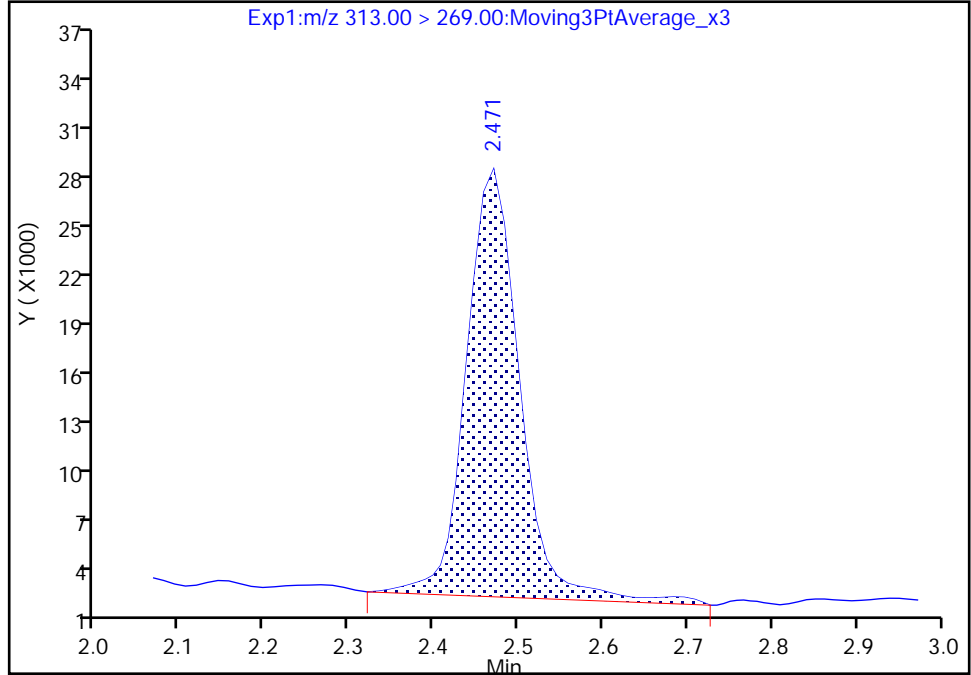
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

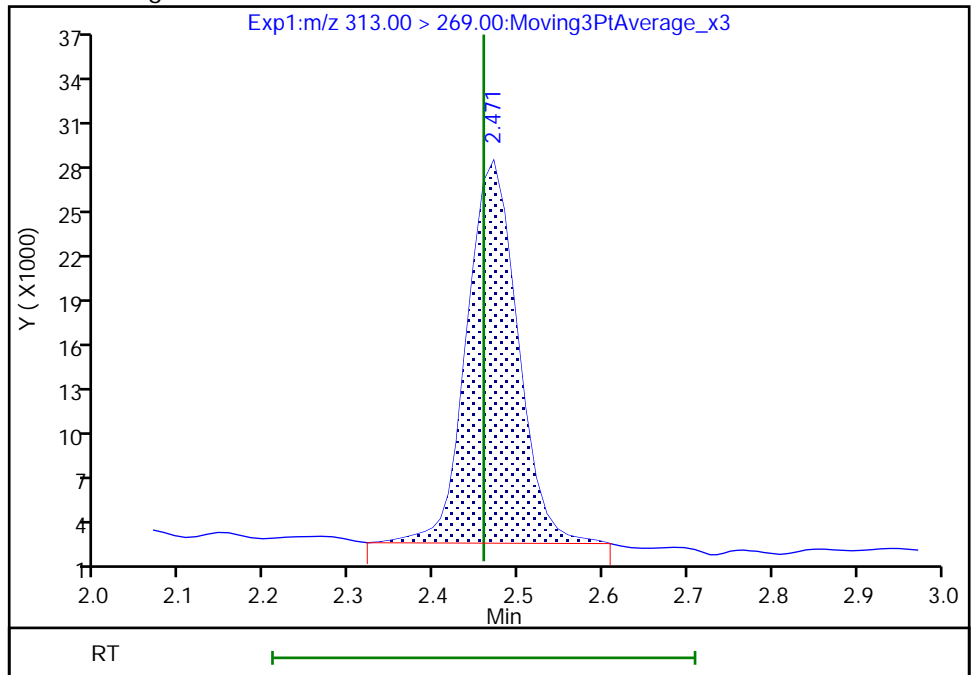
RT: 2.47  
Area: 113953  
Amount: 1.776784  
Amount Units: ng/ml

Processing Integration Results



RT: 2.47  
Area: 107216  
Amount: 1.671739  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:02:58

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

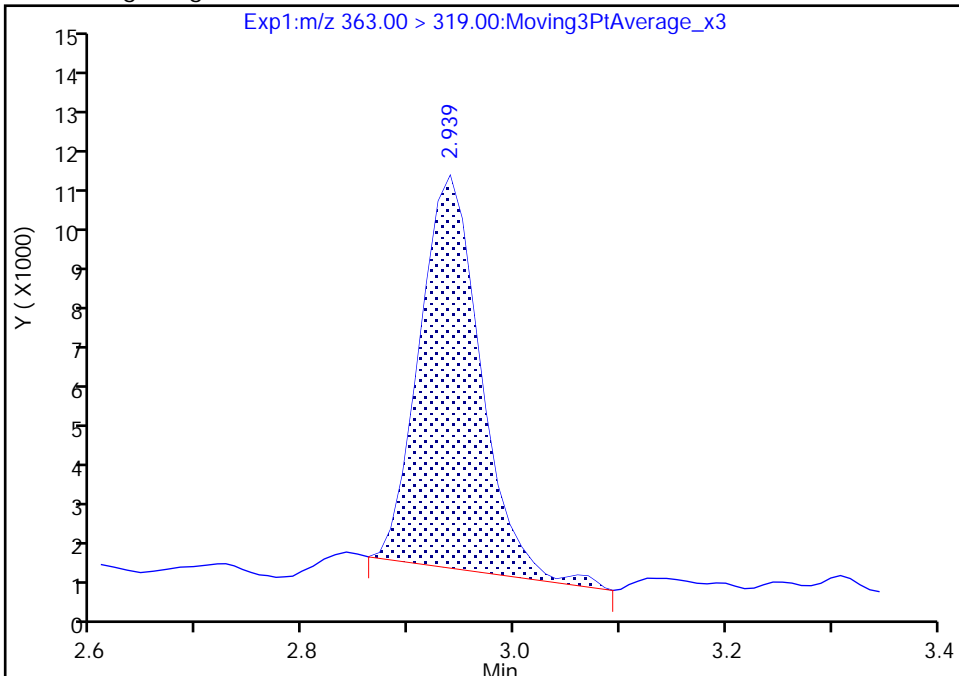
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

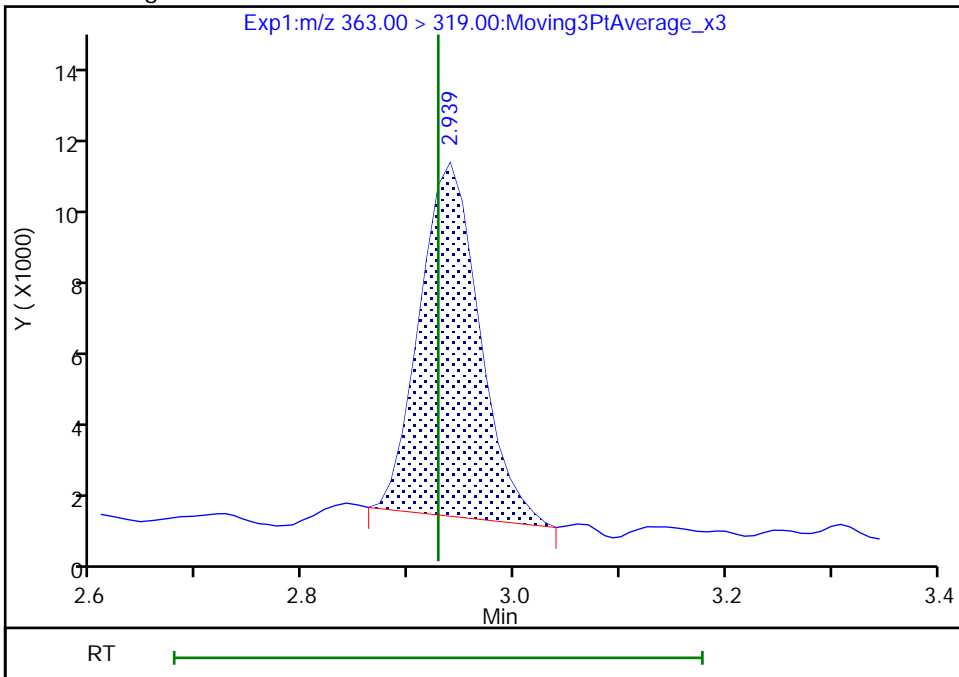
RT: 2.94  
Area: 37915  
Amount: 0.641386  
Amount Units: ng/ml

Processing Integration Results



RT: 2.94  
Area: 36943  
Amount: 0.624943  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:03:20  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

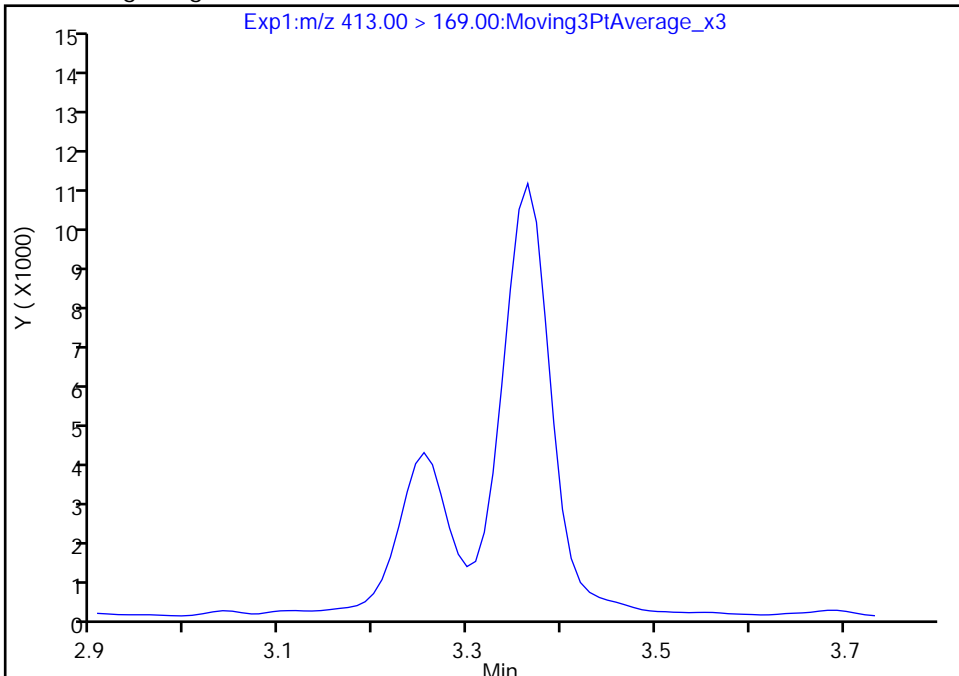
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

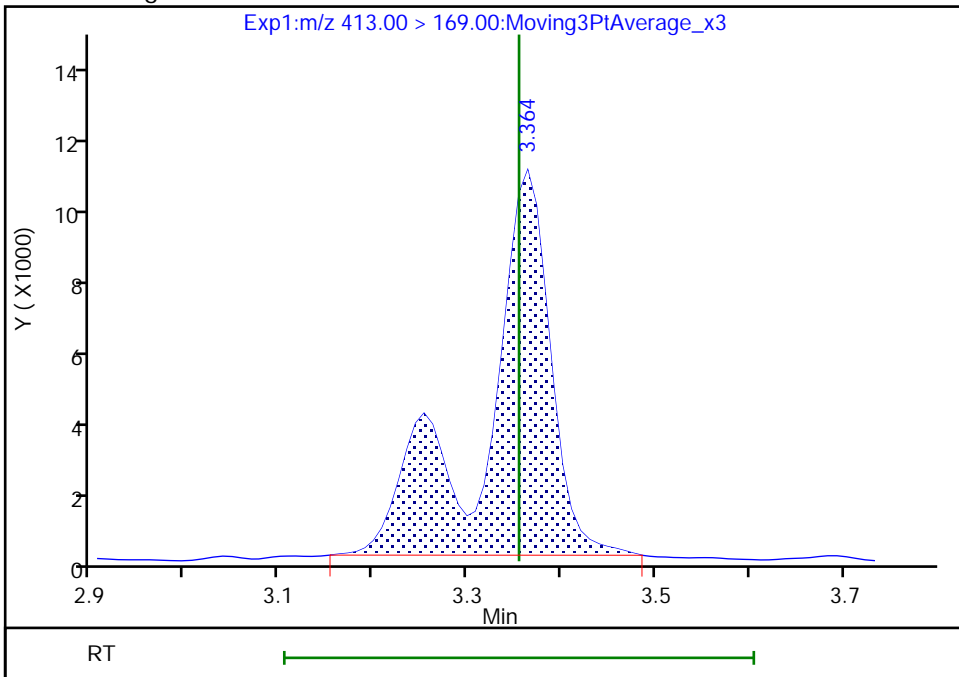
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.36  
Area: 52342  
Amount: 1.513071  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:03:53  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

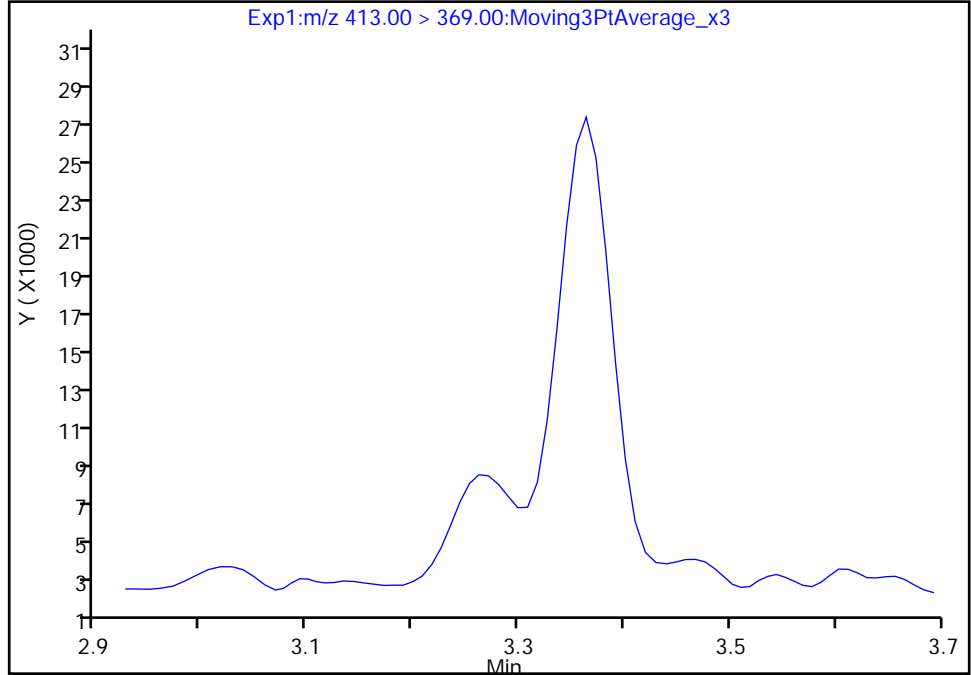
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

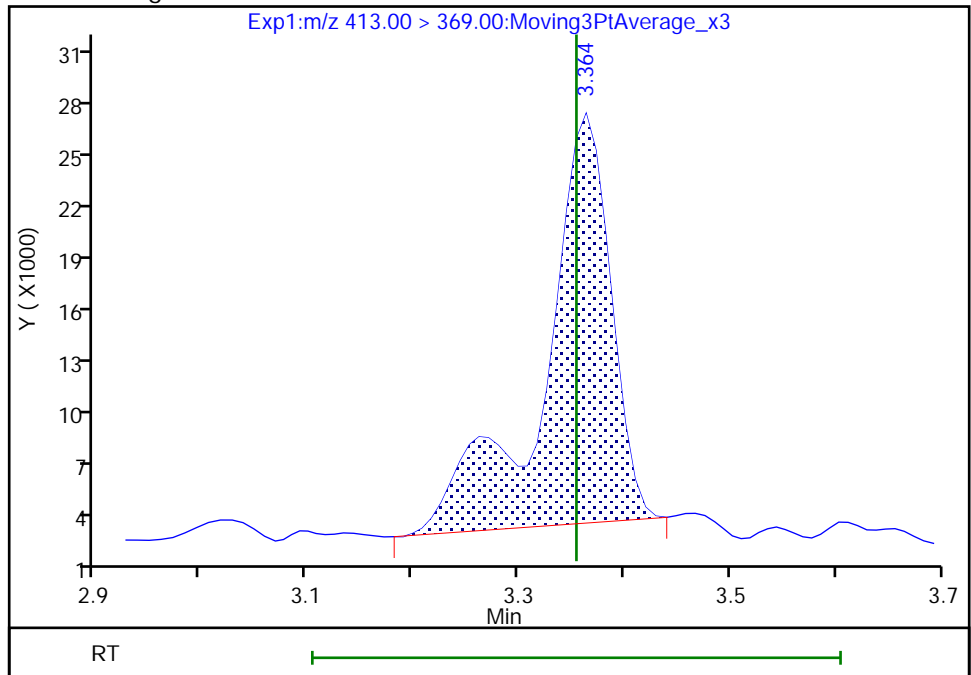
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.36  
Area: 104960  
Amount: 1.513071  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

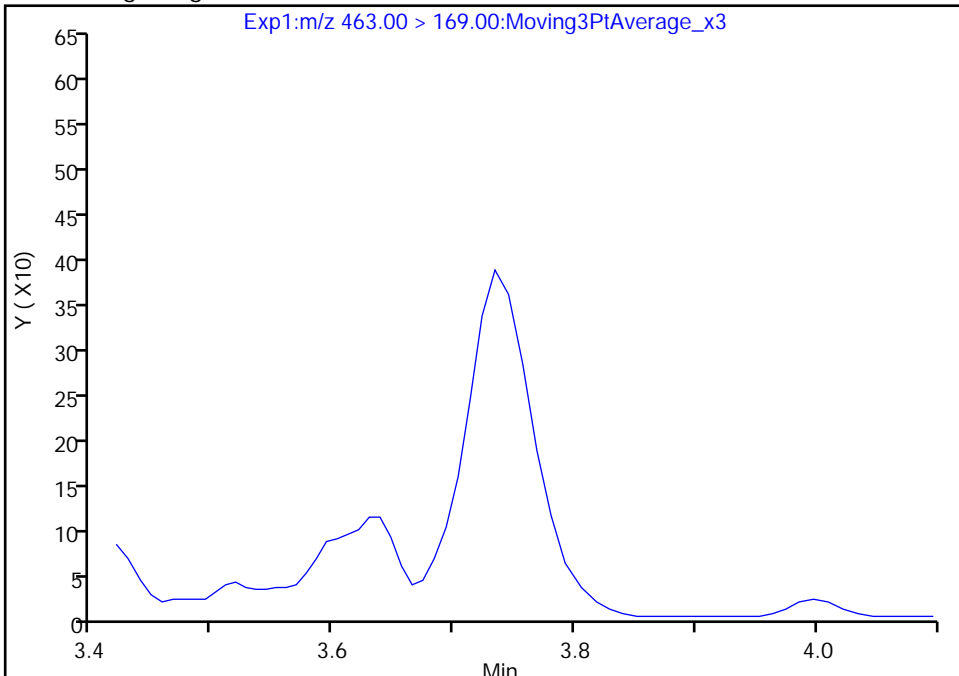
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

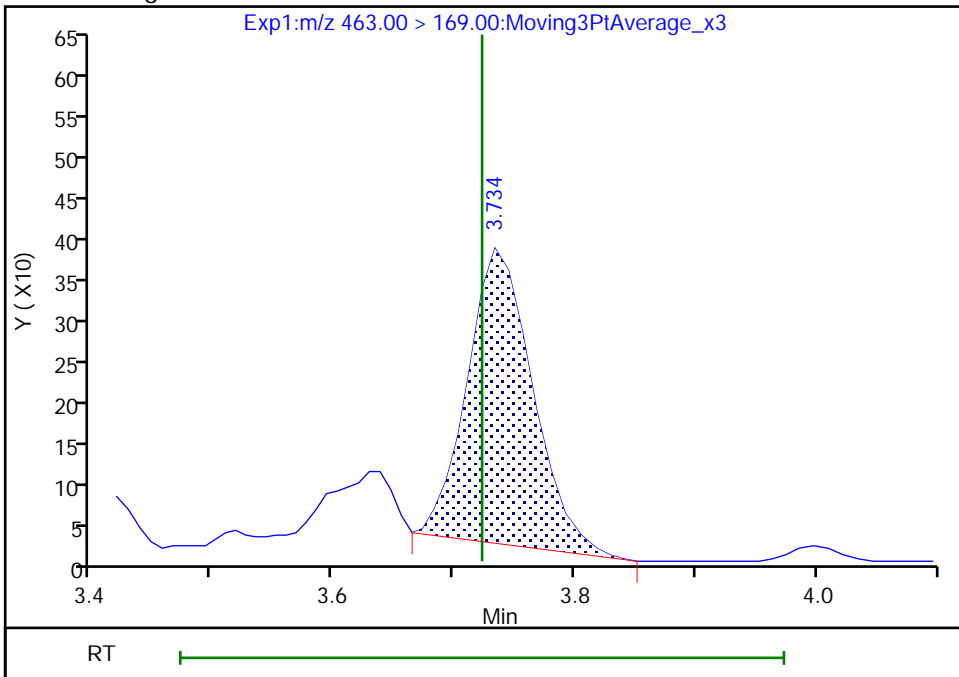
Not Detected  
Expected RT: 3.72

Processing Integration Results



RT: 3.73  
Area: 1364  
Amount: 0.125005  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:04:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

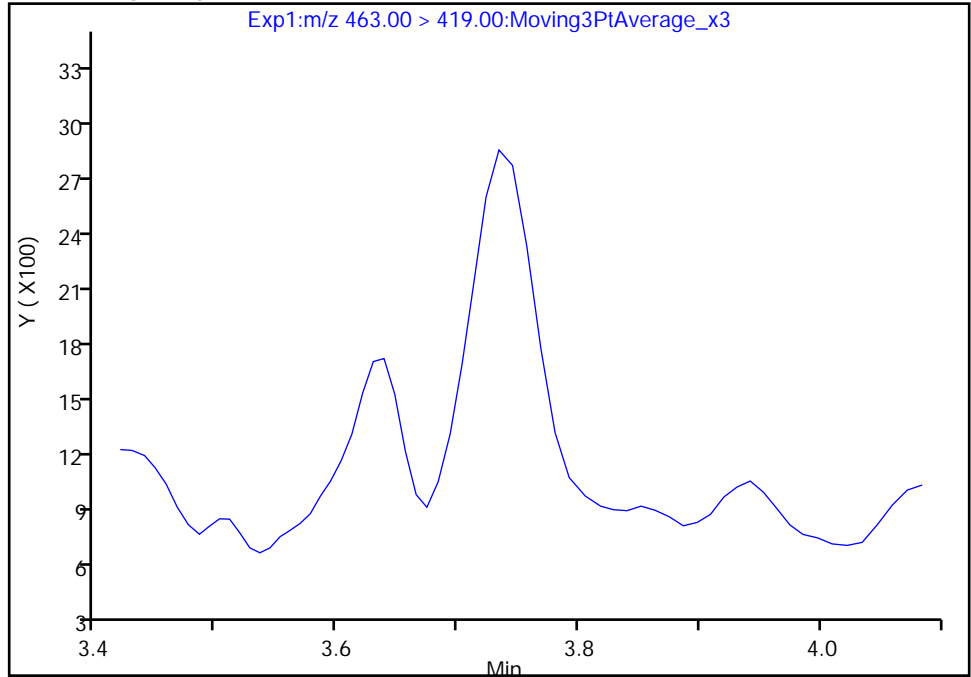
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

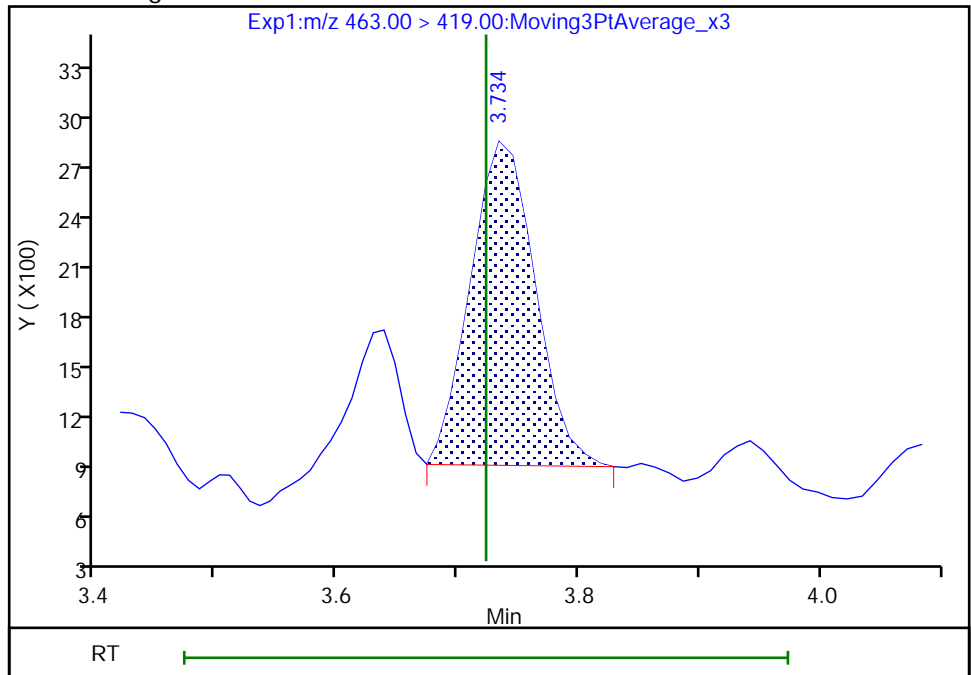
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.73  
Area: 7055  
Amount: 0.125005  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

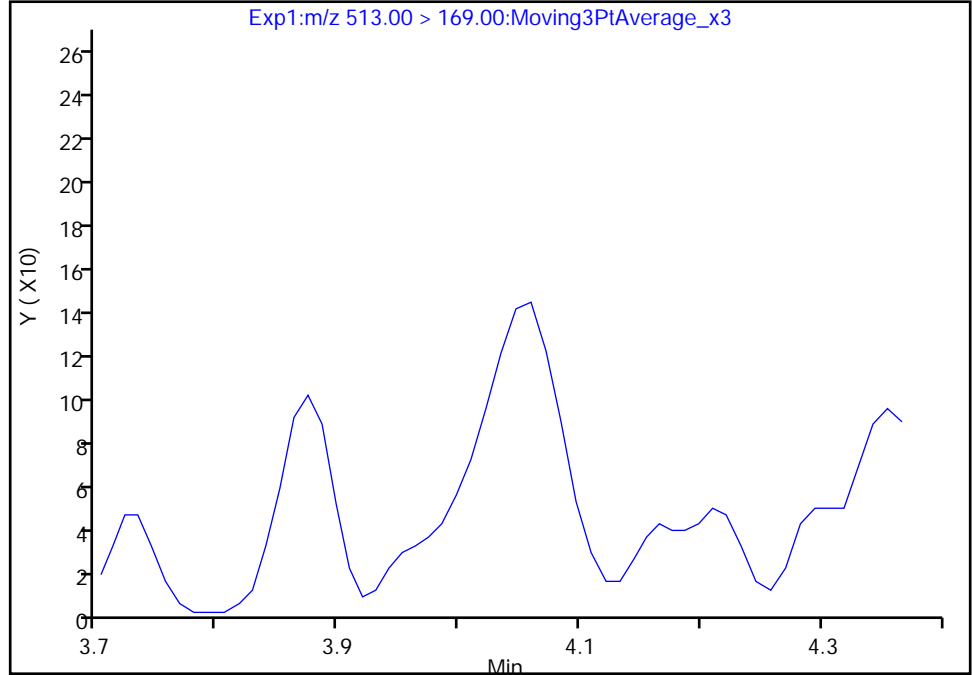
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

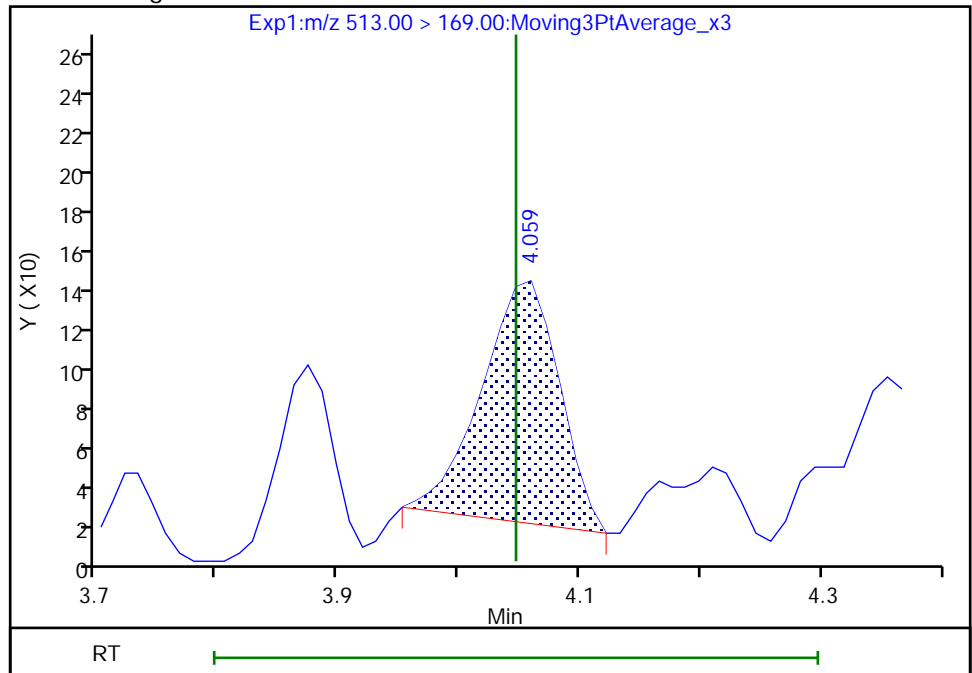
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.06  
Area: 537  
Amount: 0.091672  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:04:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

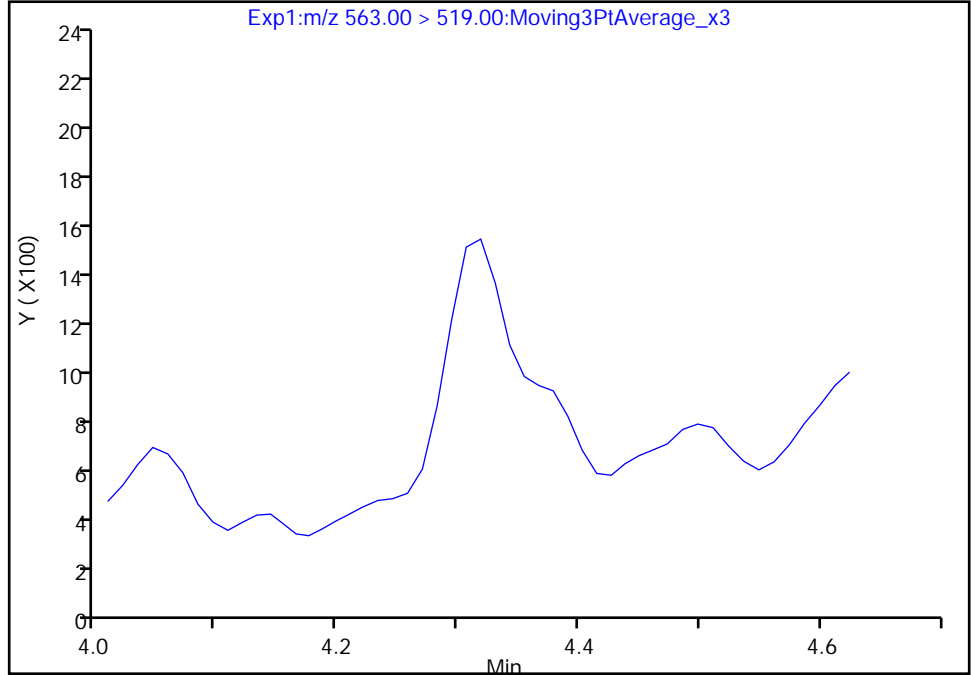
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

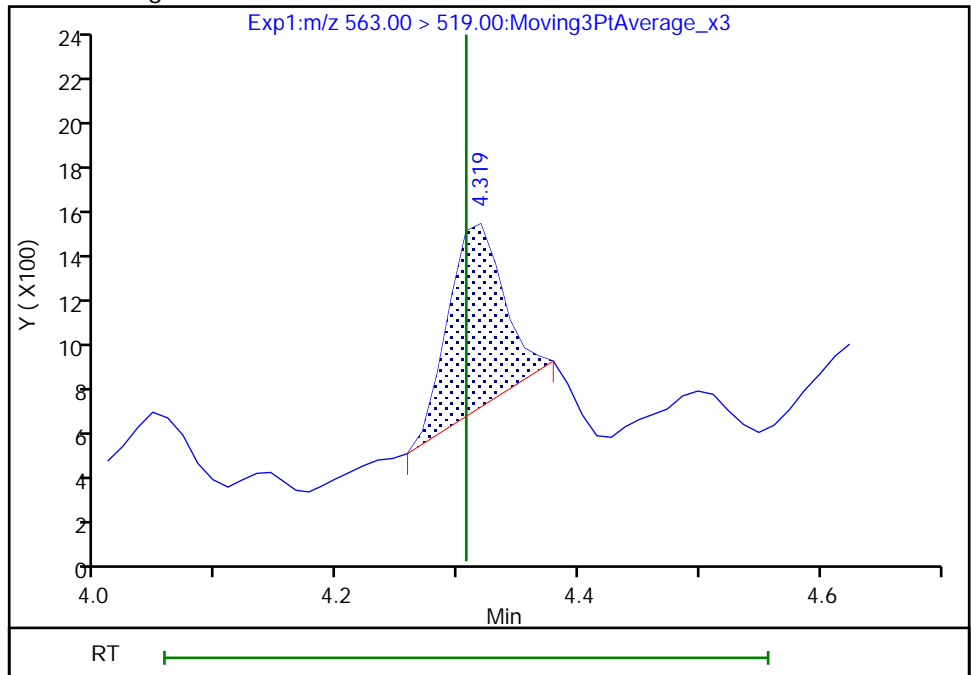
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 2543  
Amount: 0.077642  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:05:06  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

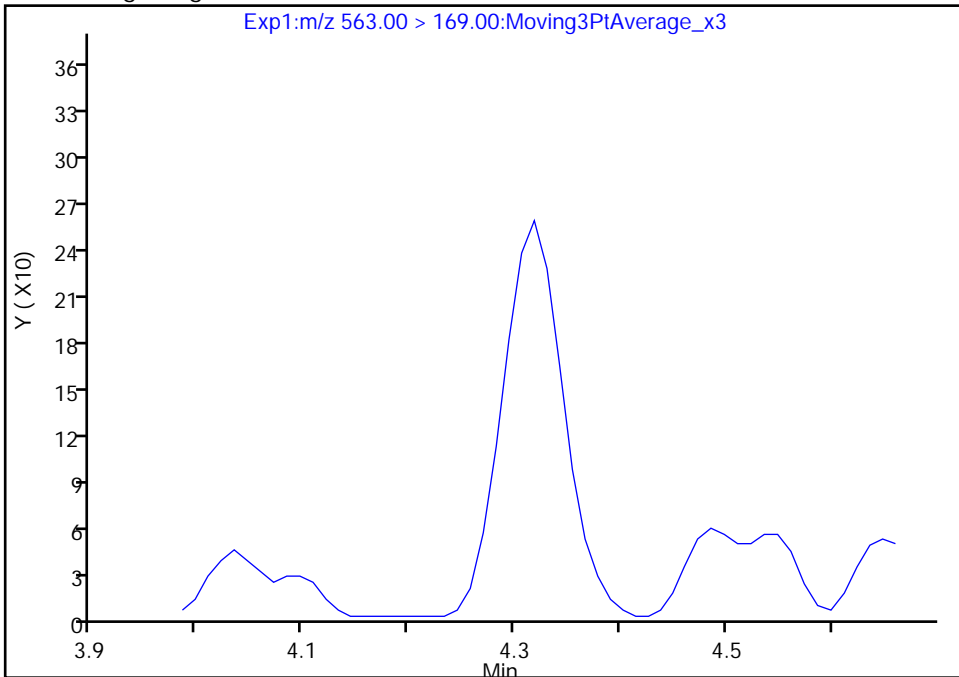
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

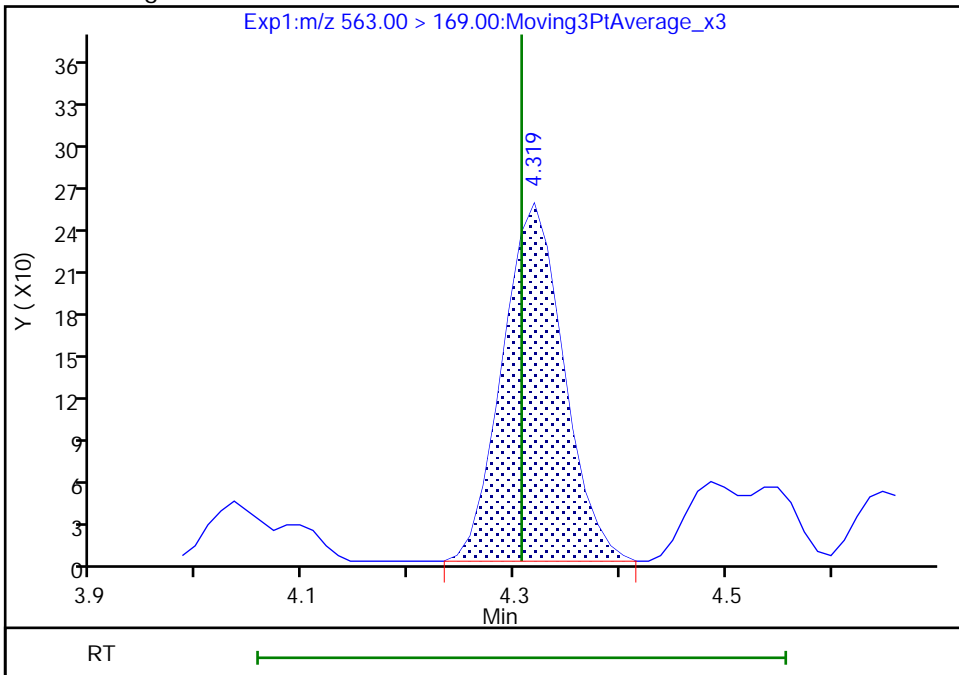
Not Detected  
Expected RT: 4.31

Processing Integration Results



RT: 4.32  
Area: 1031  
Amount: 0.077642  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

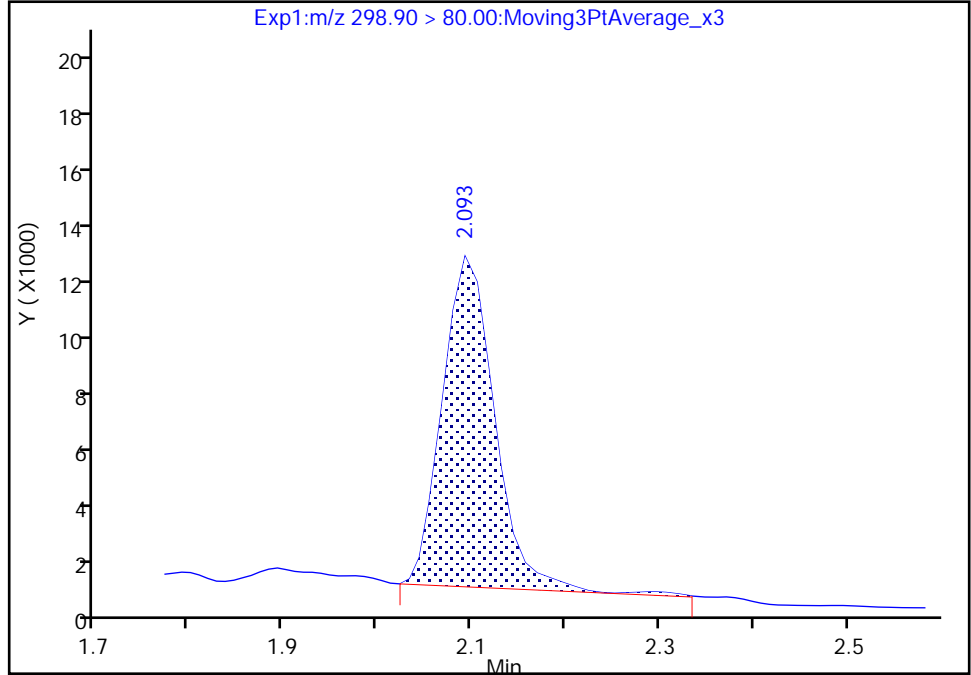
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

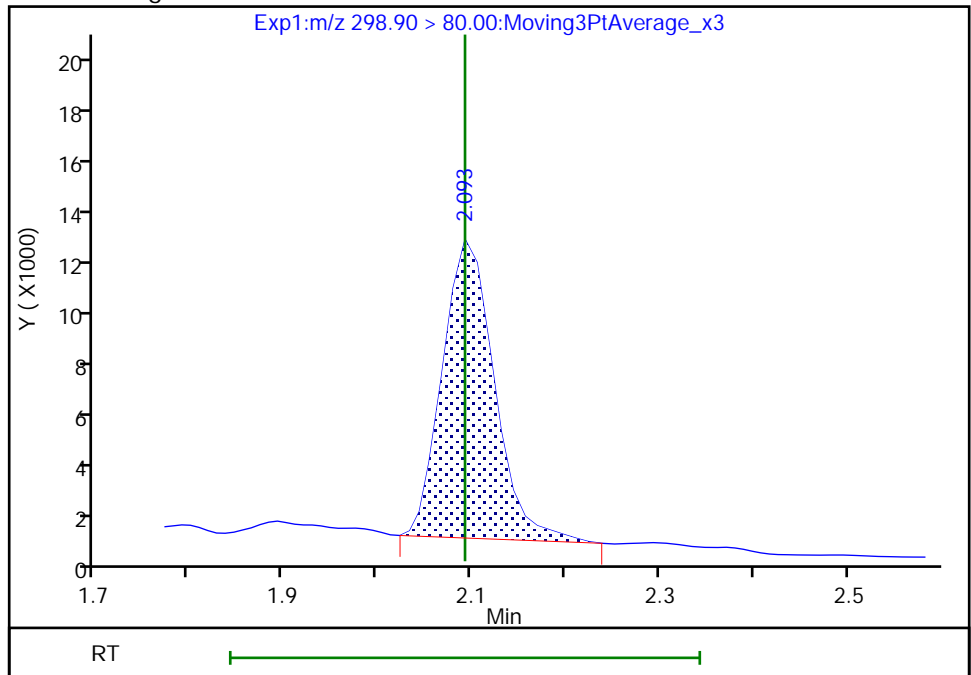
RT: 2.09  
Area: 44326  
Amount: 0.637178  
Amount Units: ng/ml

Processing Integration Results



RT: 2.09  
Area: 43823  
Amount: 0.629948  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:02:52  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

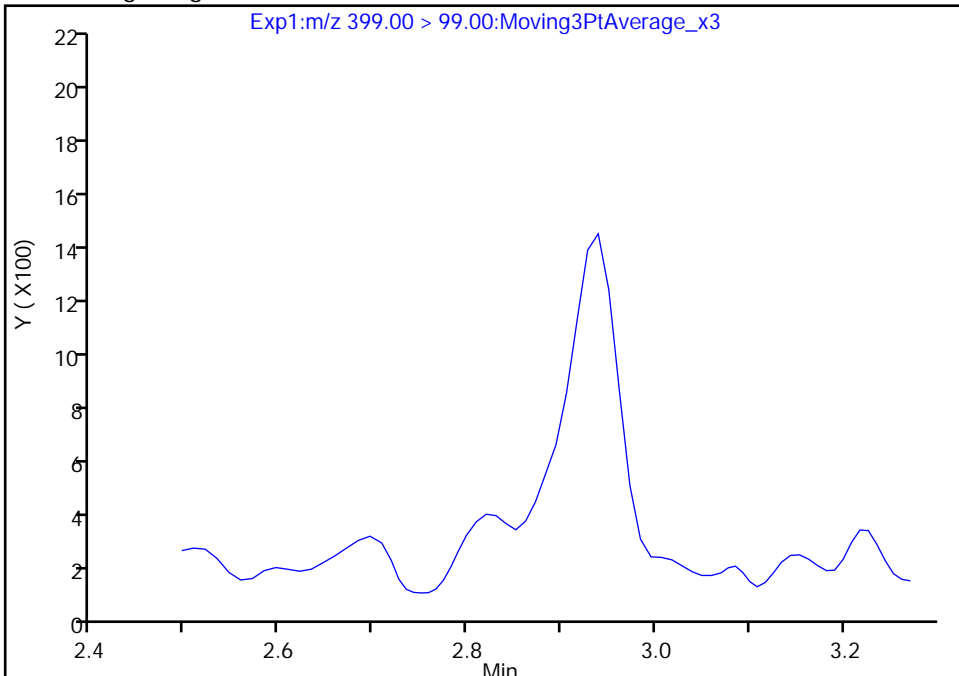
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

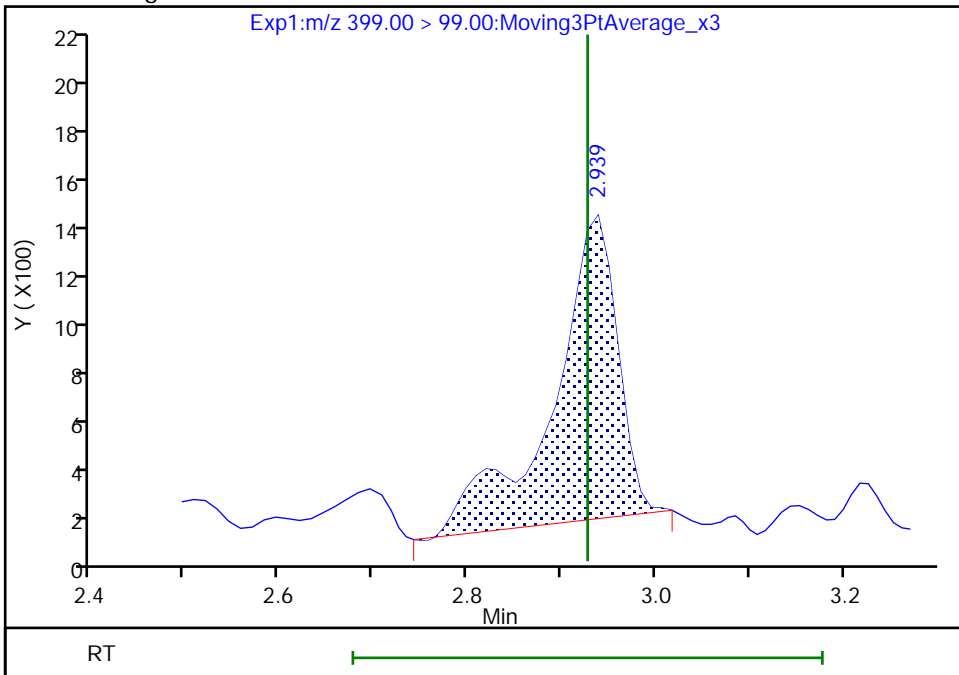
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 5694  
Amount: 0.290600  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

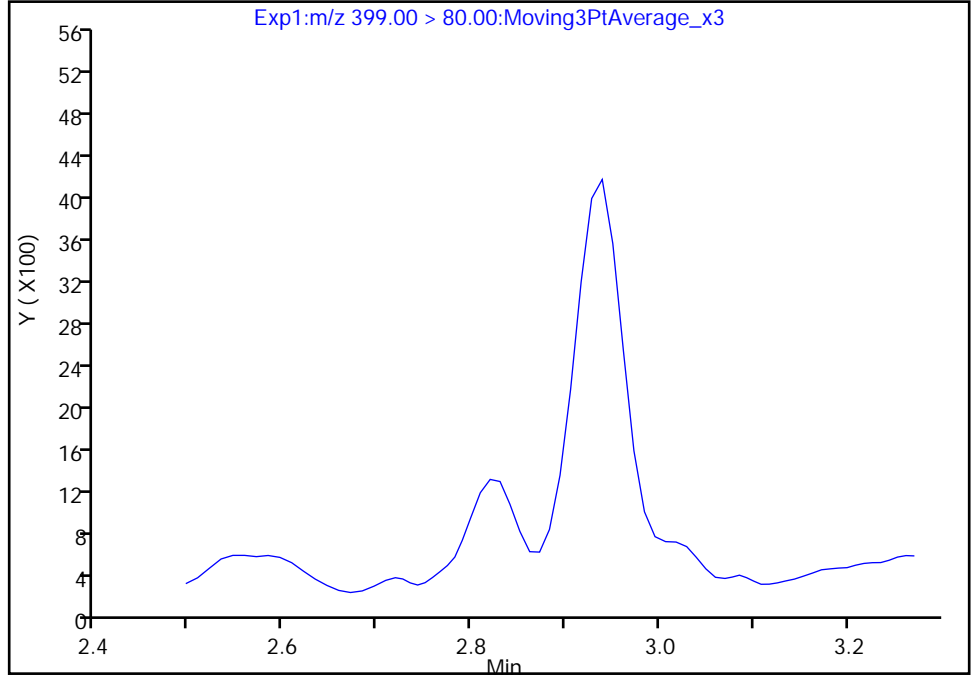
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

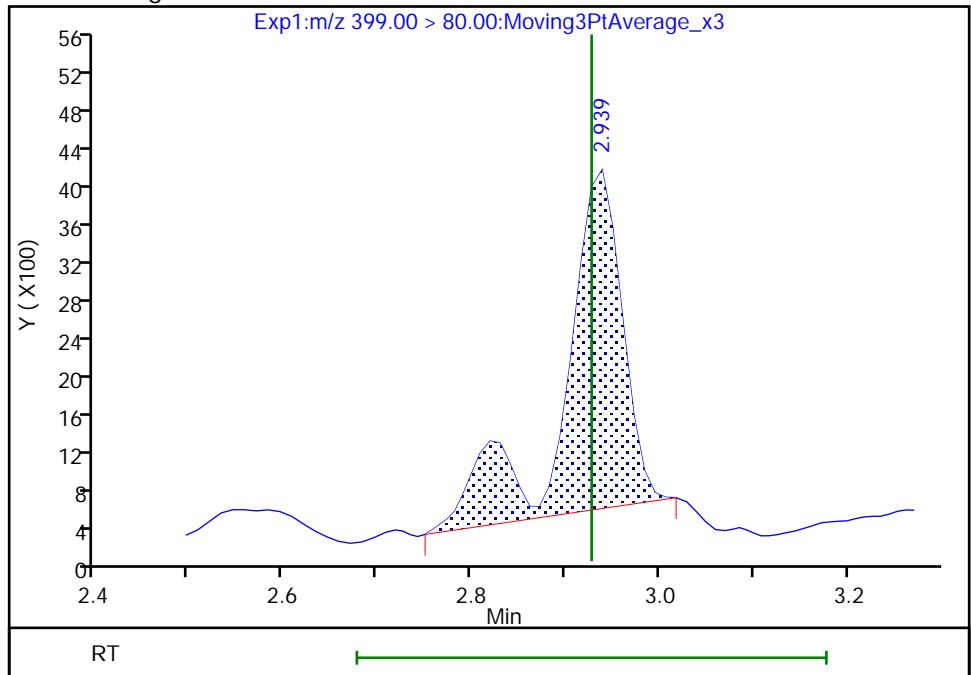
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 15431  
Amount: 0.290600  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:03:12

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

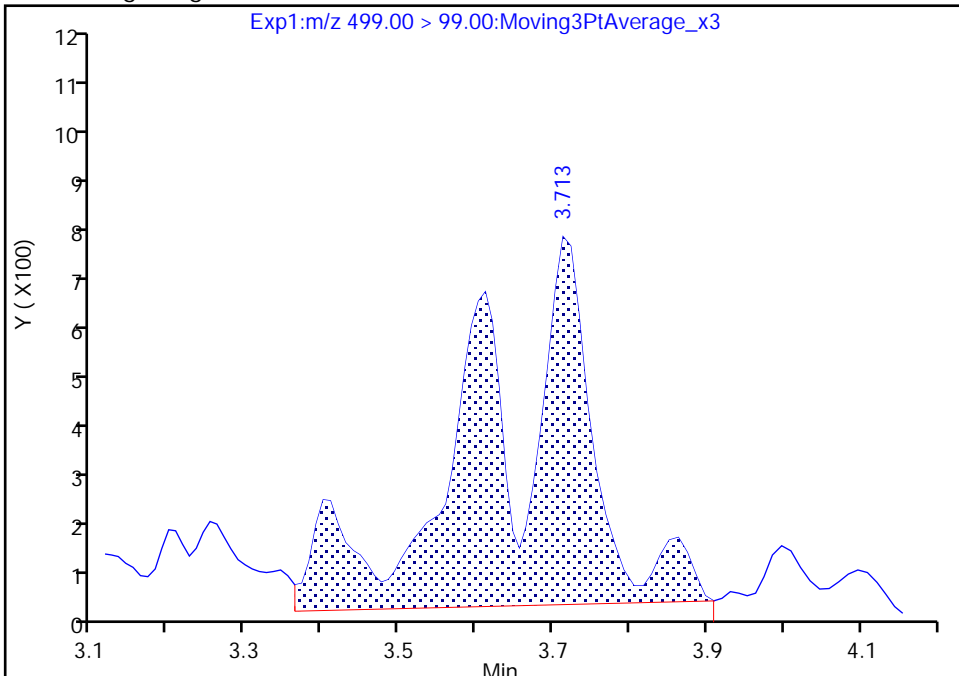
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

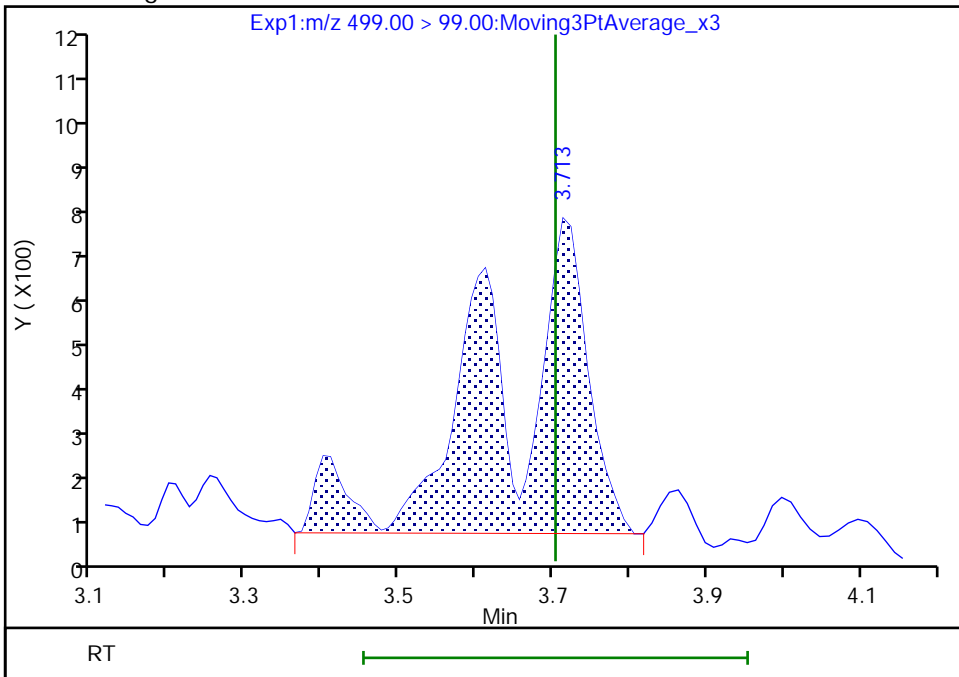
RT: 3.71  
Area: 7161  
Amount: 1.266558  
Amount Units: ng/ml

Processing Integration Results



RT: 3.71  
Area: 5637  
Amount: 1.222716  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:04:16  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

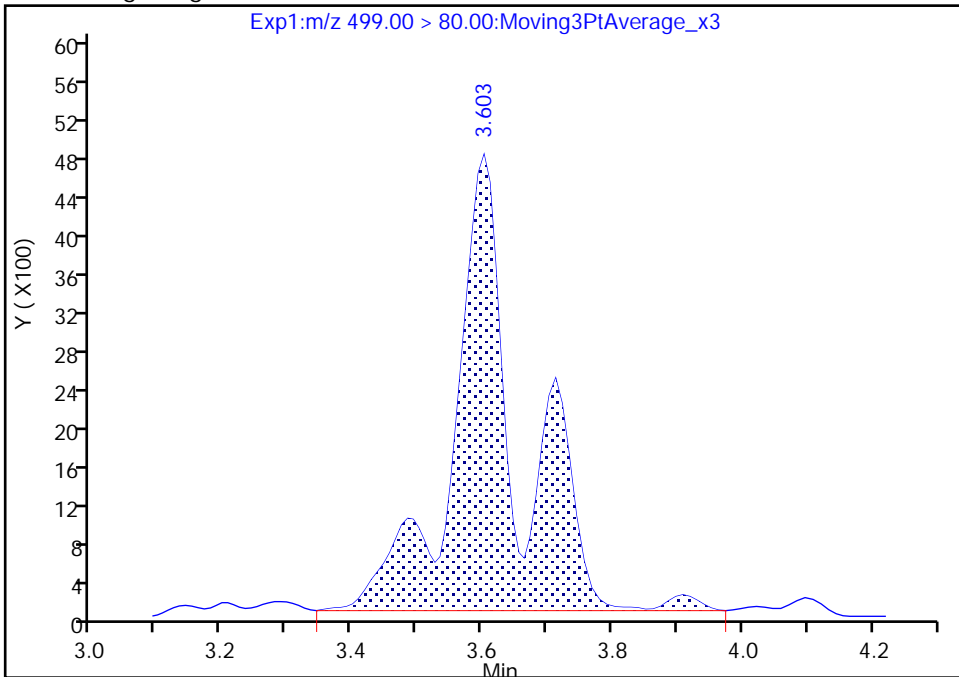
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

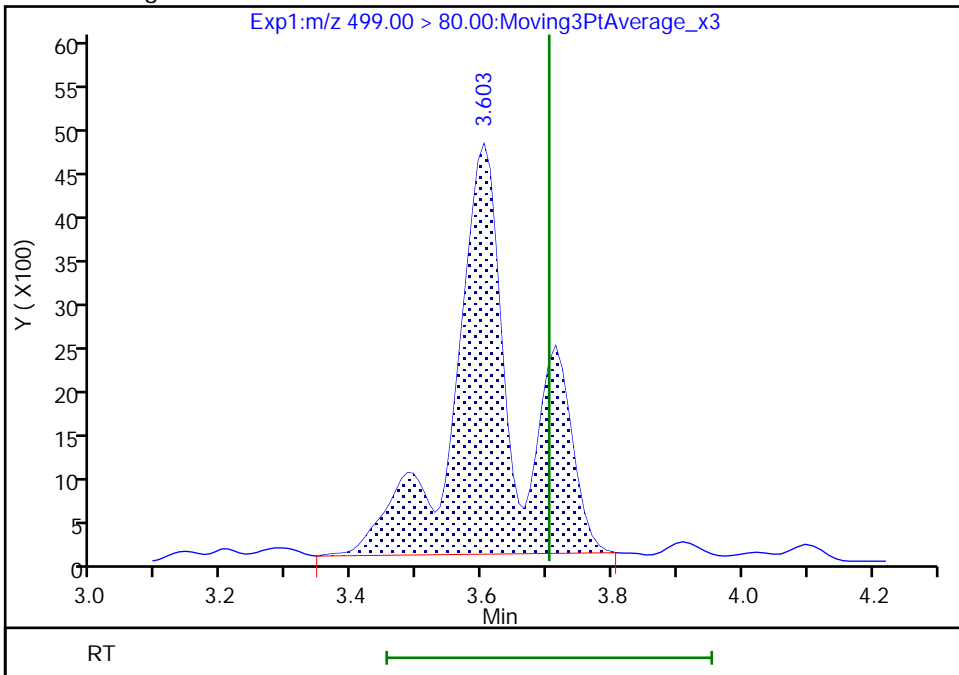
RT: 3.60  
Area: 33887  
Amount: 1.266558  
Amount Units: ng/ml

Processing Integration Results



RT: 3.60  
Area: 32714  
Amount: 1.222716  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:04:21

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

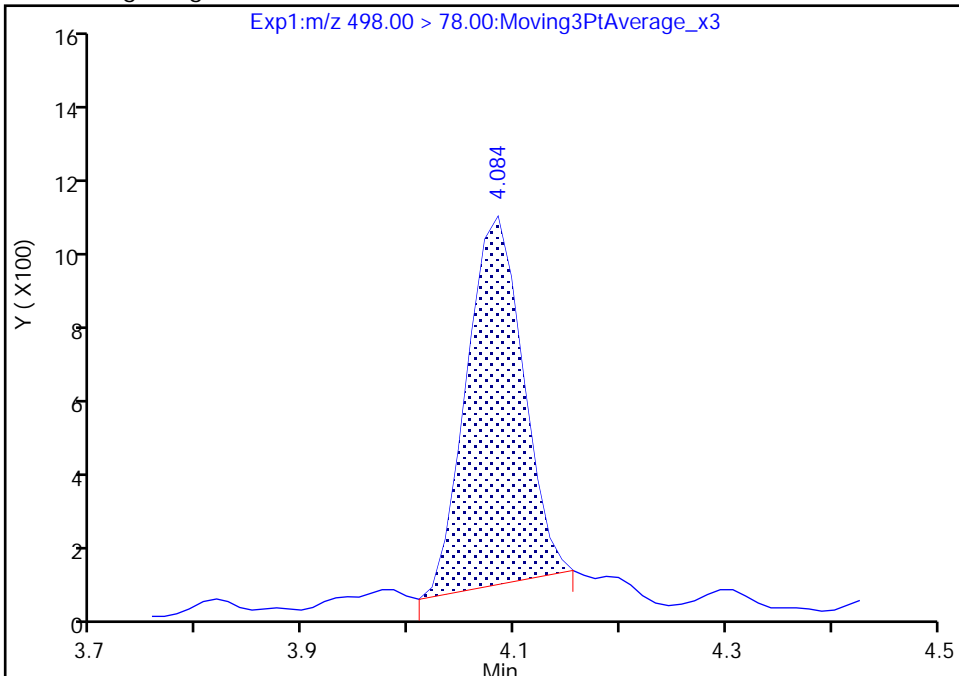
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E011.d  
Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

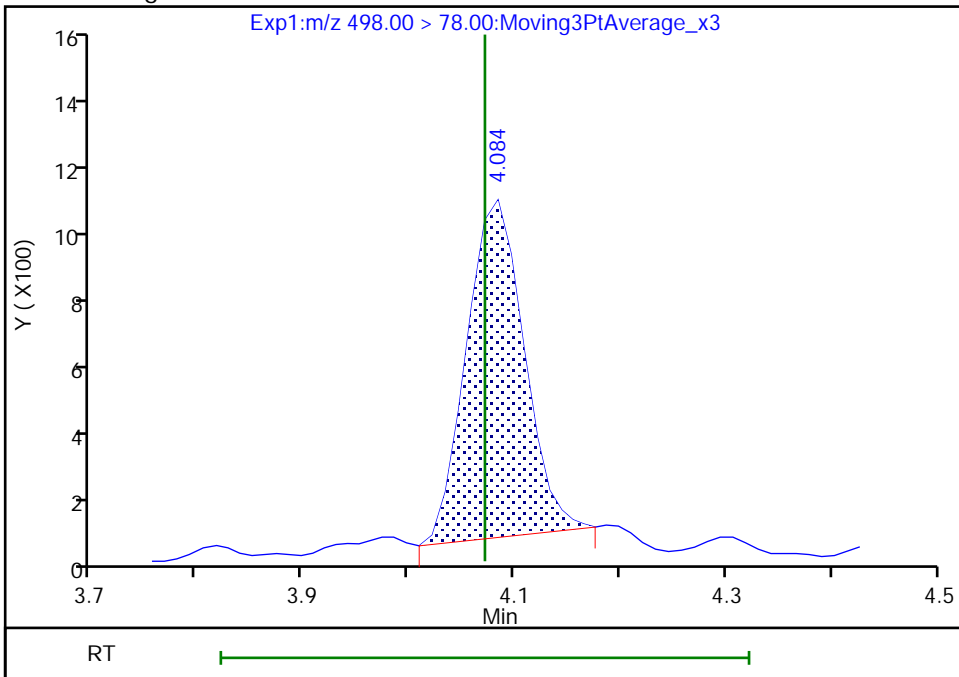
RT: 4.08  
Area: 3667  
Amount: 0.092967  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 3812  
Amount: 0.096643  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:04:55  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

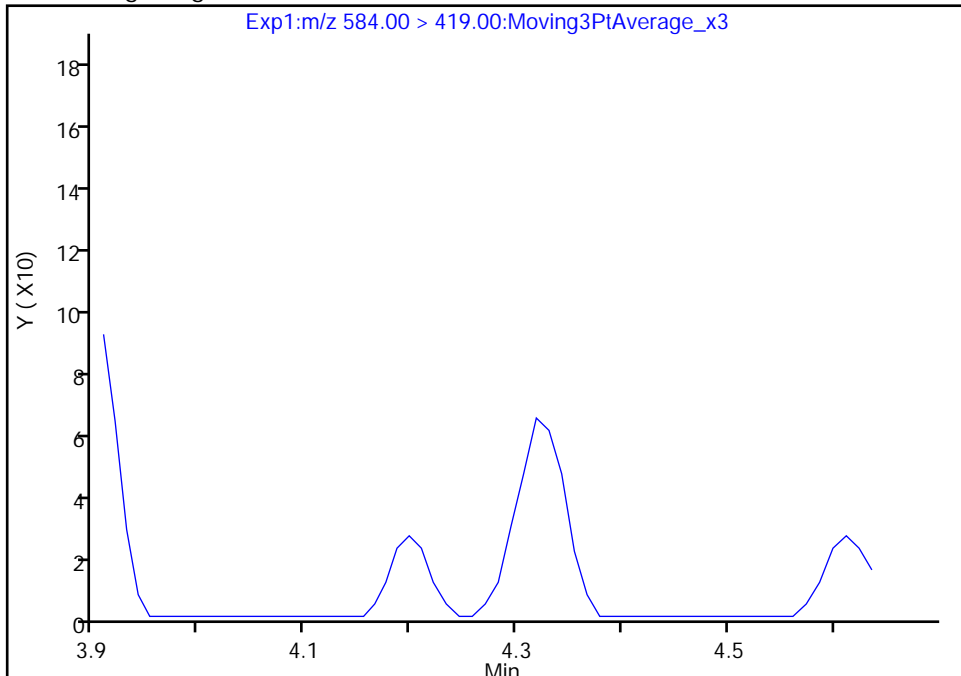
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Injection Date: 02-Aug-2019 05:09:41 Instrument ID: LC812  
Lims ID: 480-156213-F-11-A Lab Sample ID: 200-156213-11  
Client ID: 356023-MW5B  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 11  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6

Signal: 1

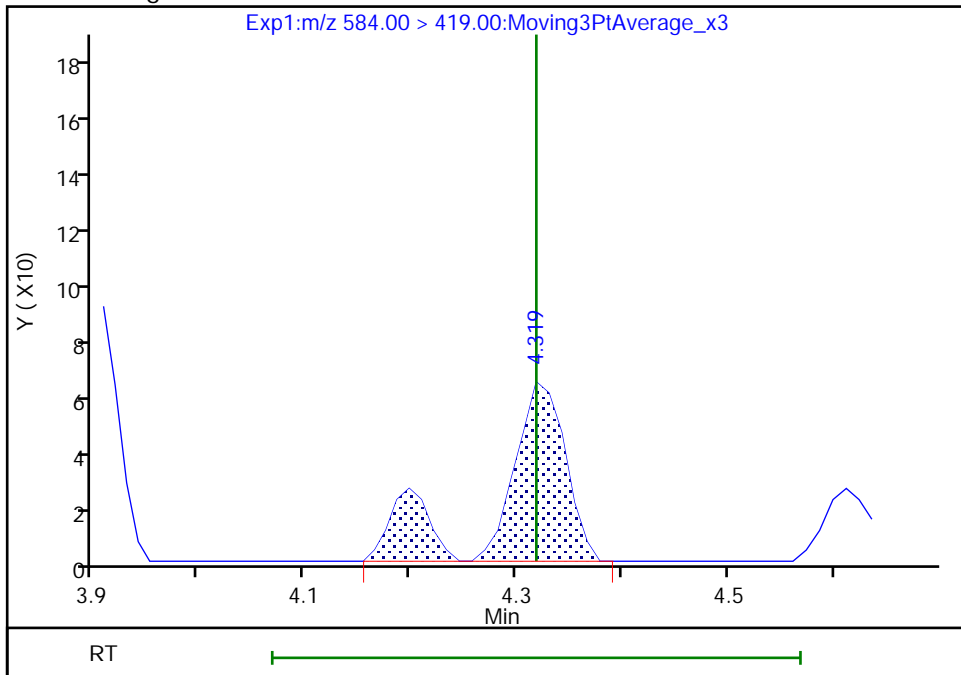
Not Detected  
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 275  
Amount: 0.087064  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:05:27  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-ERT4 Lab Sample ID: 480-156213-12  
 Matrix: Water Lab File ID: SC080119E013.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 11:20  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 306.3 (mL) Date Analyzed: 08/02/2019 05:25  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	7.4		1.6	0.82
2706-90-3	Perfluoropentanoic acid (PFPeA)	7.8		1.6	0.51
307-24-4	Perfluorohexanoic acid (PFHxA)	5.7		1.6	0.62
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.5		1.6	0.74
335-67-1	Perfluorooctanoic acid (PFOA)	6.8		1.6	0.51
375-95-1	Perfluorononanoic acid (PFNA)	1.0	J	1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.63
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.61	J	1.6	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.75
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.5	J	1.6	0.40
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.1	J	1.6	0.65
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.78
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.73
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	4.5		1.6	0.50
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.2	8.2
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.8
39108-34-4	8:2 FTS	ND		16	2.4

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-ERT4 Lab Sample ID: 480-156213-12  
 Matrix: Water Lab File ID: SC080119E013.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 11:20  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 306.3 (mL) Date Analyzed: 08/02/2019 05:25  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	80		25-150
STL00992	13C4 PFBA	76		25-150
STL01893	13C5 PFPeA	90		25-150
STL00993	13C2 PFHxA	89		50-150
STL01892	13C4 PFHpA	92		50-150
STL00990	13C4 PFOA	86		50-150
STL00995	13C5 PFNA	90		50-150
STL00996	13C2 PFDA	91		50-150
STL00997	13C2 PFUnA	88		50-150
STL00998	13C2 PFDoA	78		50-150
STL02116	13C2 PFTeDA	61		50-150
STL02337	13C3 PFBS	95		50-150
STL00994	18O2 PFHxS	90		50-150
STL00991	13C4 PFOS	82		50-150
STL02118	d3-NMeFOSAA	65		50-150
STL02117	d5-NEtFOSAA	66		50-150
STL02279	M2-6:2 FTS	99		25-150
STL02280	M2-8:2 FTS	102		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
 Lims ID: 480-156213-G-12-A  
 Client ID: 356023-ERT4  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 05:25:47 ALS Bottle#: 6 Worklist Smp#: 13  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-G-12-A  
 Misc. Info.: 200-0037095-013 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:10:23  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.507	2685545	38.0	76.0	9221	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.005	223956	4.52		32.9	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.616	2997361	45.2	90.3	5271	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	277604	4.79		9.6	M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.624	2879546	44.2	95.0	215726	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	59191	0.9403	Target=1.90	12.6	
	298.90 > 99.00	2.093	2.093	0.0	1.000	31124		1.90(0.95-2.85)	12.6	
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.733	2935890	44.5	89.1	6400	
6 Perfluorohexanoic acid	313.00 > 269.00	2.459	2.459	0.0	1.000	211657	3.50	Target=13.23	22.5	
	313.00 > 119.00	2.459	2.459	0.0	1.000	15805		13.39(6.61-19.84)	18.6	
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.873	1628253	42.6	90.1	5268	
D 9 13C4 PFHpA	367.00 > 322.00	2.928	2.928	0.0	0.873	2976304	46.1	92.2	7520	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.928	2.928	0.0	1.000	29286	0.6456	Target=3.37	12.5	M
	399.00 > 99.00	2.928	2.928	0.0	1.000	7952		3.68(1.69-5.06)	7.0	M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.928	2.928	0.0	1.000	87021	1.56	Target=3.76	11.5	
	363.00 > 169.00	2.928	2.928	0.0	1.000	24404		3.57(1.88-5.65)	62.9	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.344	3.335	0.009	0.997	374846	47.2		99.3	379	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.344	3.336	0.008	1.000	9131	0.6747		22.4		M
D 14 13C4 PFOA										
417.00 > 372.00	3.354	3.344	0.010	1.000	2933376	43.0		86.0	7969	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.363	3.355	0.008	1.003	264558	4.14	Target=2.84	23.0		
413.00 > 169.00	3.354	3.355	-0.001	1.000	108450		2.44(1.42-4.25)	270		M
* 62 13C2 PFOA										
415.00 > 370.00	3.354	3.355	-0.001		3750236	50.0			12803	
D 18 13C4 PFOS										
503.00 > 80.00	3.705	3.695	0.010	1.105	1252722	39.4		82.4	2590	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.715	3.703	0.012	1.003	69029	2.78	Target=4.33	88.3		M
499.00 > 99.00	3.705	3.703	0.002	1.000	13564		5.09(2.16-6.49)	28.0		M
D 19 13C5 PFNA										
468.00 > 423.00	3.724	3.715	0.009	1.111	2806748	45.1		90.2	13713	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.724	3.723	0.001	1.000	31947	0.6282	Target=8.15	8.6		
463.00 > 169.00	3.735	3.723	0.012	1.003	5026		6.36(4.08-12.23)	41.7		M
D 23 13C2 PFDA										
515.00 > 470.00	4.049	4.036	0.013	1.207	2264175	45.5		91.0	8844	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.049	4.036	0.013	1.207	358269	48.8		102	625	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.049	4.047	0.002	1.000	10145	0.2314	Target=9.58	3.6		
513.00 > 169.00	4.049	4.047	0.002	1.000	1745		5.81(4.79-14.37)	15.6		
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.049	4.047	0.002	1.000	475	0.0475		8.5		M
D 21 13C8 FOSA										
506.00 > 78.00	4.074	4.061	0.013	1.215	2286567	40.0		80.0	6735	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.074	4.072	0.002	1.000	5338	0.1279		21.1		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.189	4.178	0.011	1.249	205915	32.4		64.8	2003	
28 N-methylperfluorooctanesulfonamido										M
570.00 > 419.00	4.178	4.187	-0.009	0.997	439	0.1409		3.0		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.296	0.012	1.285	1990211	43.9		87.8	6911	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.320	4.307	0.013	1.003	12663	0.3708	Target=7.95	5.8		M
563.00 > 169.00	4.308	4.307	0.001	1.000	1484		8.53(3.98-11.93)	17.4		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.308	0.012	1.288	234410	33.1		66.2	1153	
D 36 13C2 PFDoA										
615.00 > 570.00	4.550	4.537	0.013	1.357	1893350	38.8		77.6	6044	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.550	4.549	0.001	1.000	6698	0.1730	Target=7.49	0.8		M
613.00 > 169.00	4.550	4.549	0.001	1.000	781		8.58(3.75-11.24)	10.0		M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.769	4.760	0.009	1.048	4543	0.1307	Target=5.71	0.5		M
663.00 > 169.00	4.760	4.760	0.0	1.046	1078		4.21(2.85-8.56)	10.2		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.483	2043411	30.4		60.8	6955	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.972	4.972	0.0	1.000	1060	0.1948	Target=1.02	11.6		
713.00 > 219.00	4.972	4.972	0.0	1.000	1179		0.90(0.51-1.54)	18.1		M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d

Injection Date: 02-Aug-2019 05:25:47

Instrument ID: LC812

Lims ID: 480-156213-G-12-A

Lab Sample ID: 200-156213-12

Client ID: 356023-ERT4

Operator ID: lc812tech

ALS Bottle#: 6

Worklist Smp#: 13

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

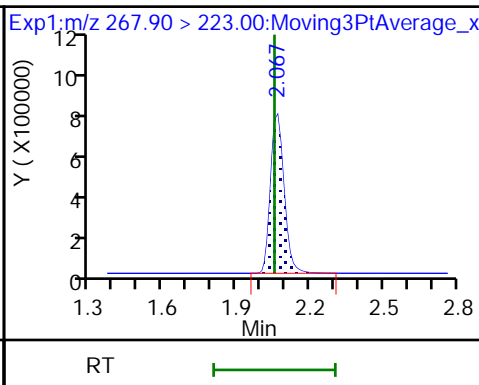
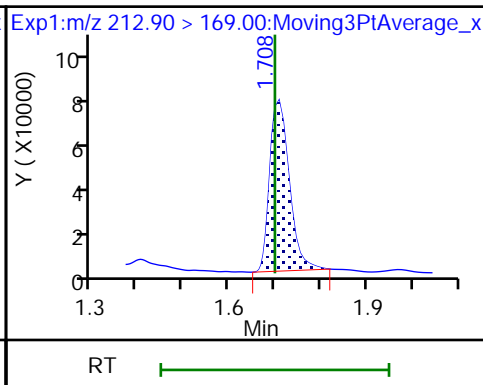
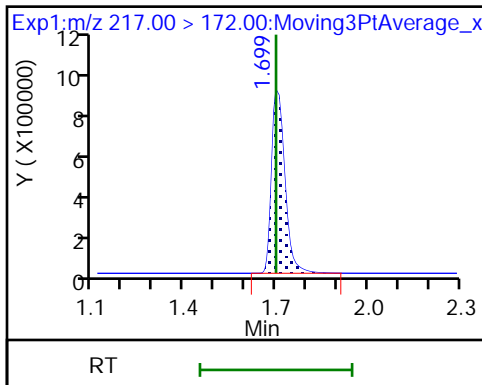
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

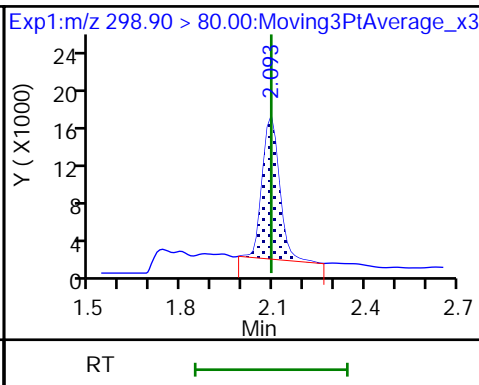
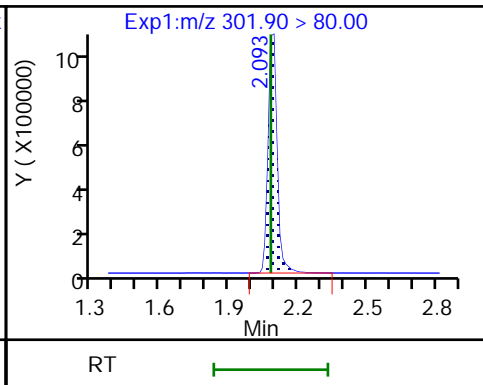
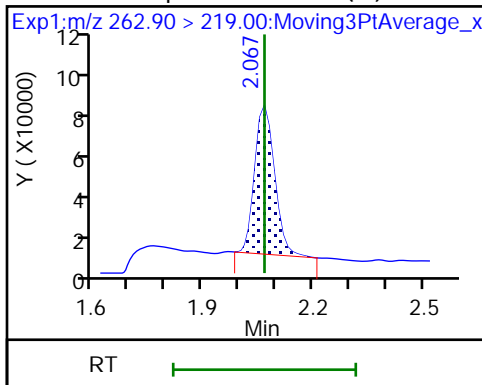
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

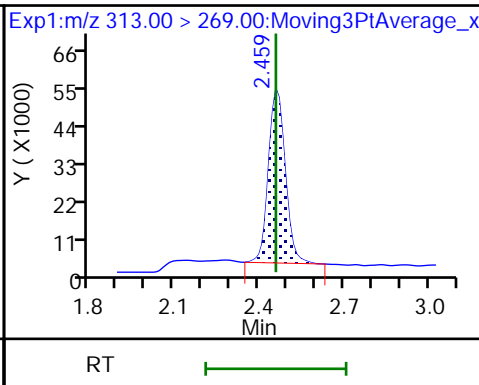
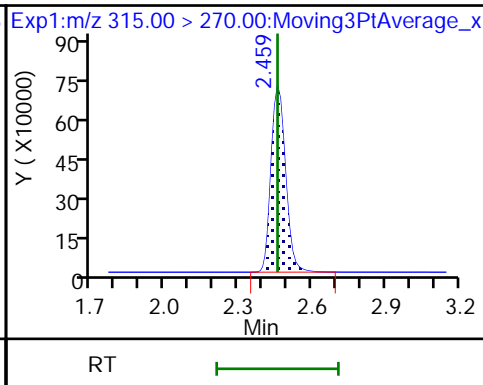
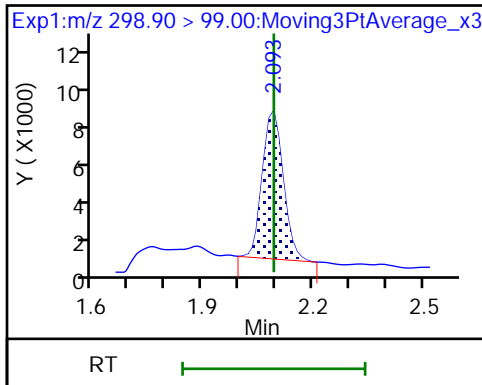
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

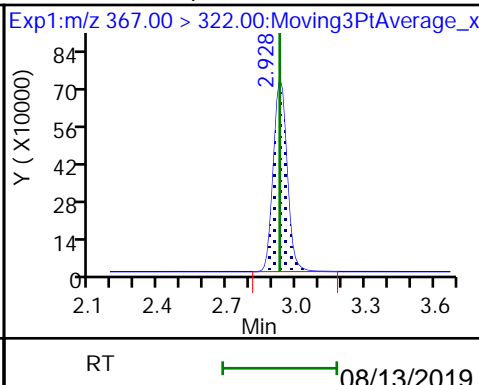
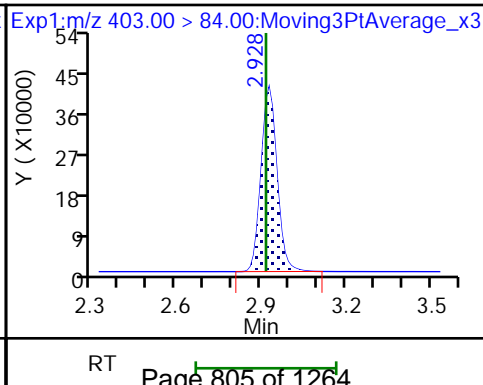
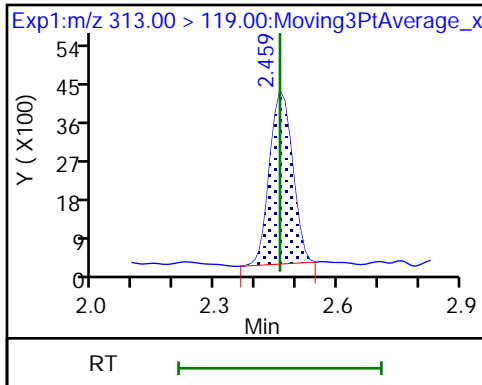
6 Perfluorohexanoic acid

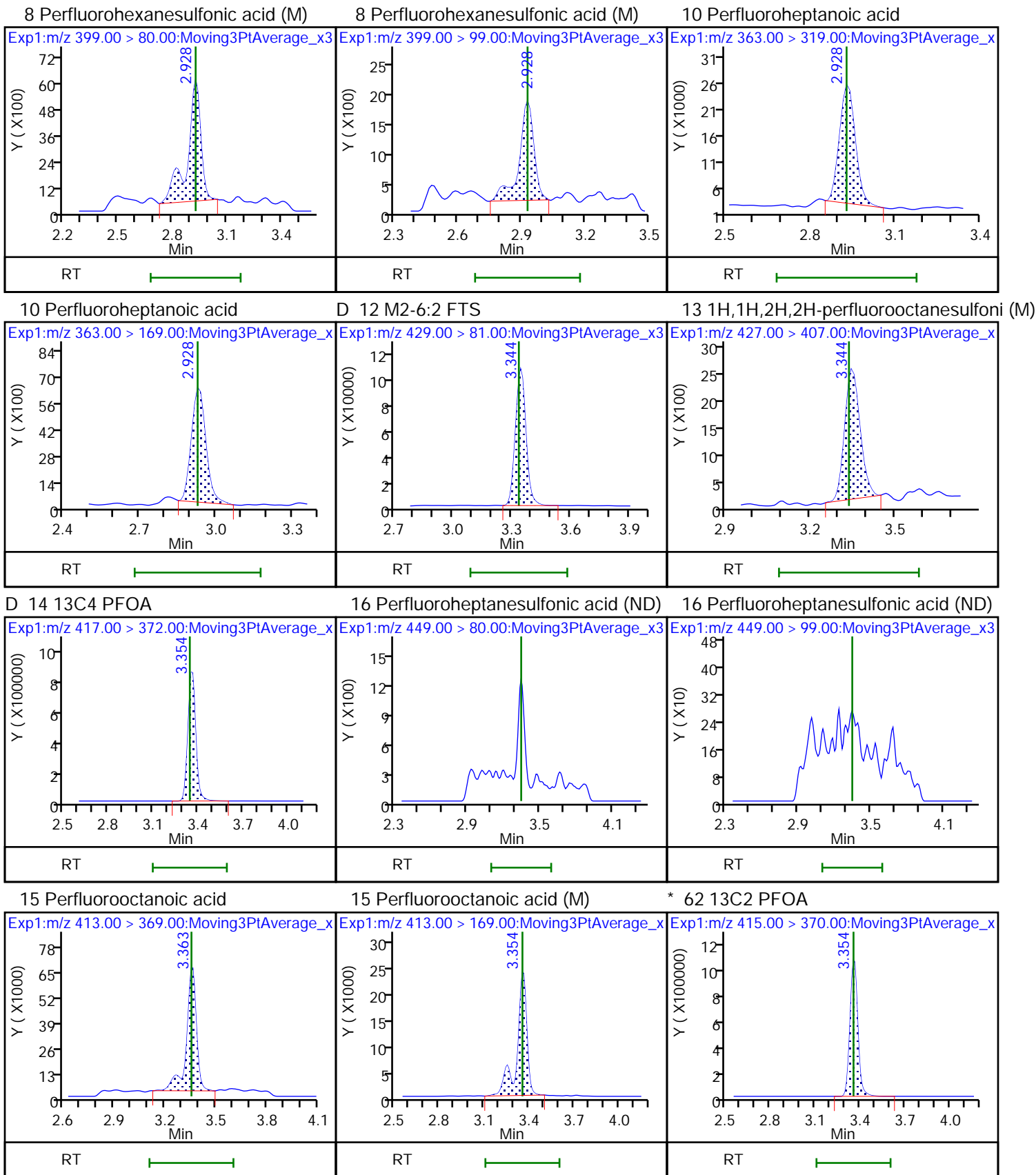


6 Perfluorohexanoic acid

D 11 18O2 PFHxS

D 9 13C4 PFHpA



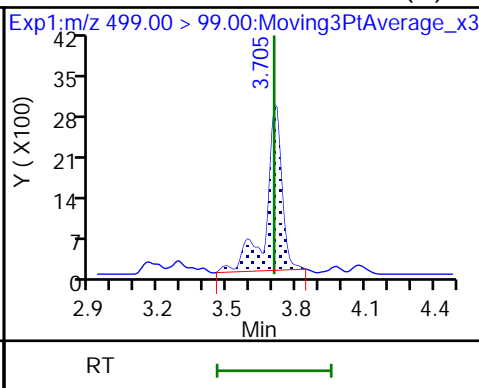
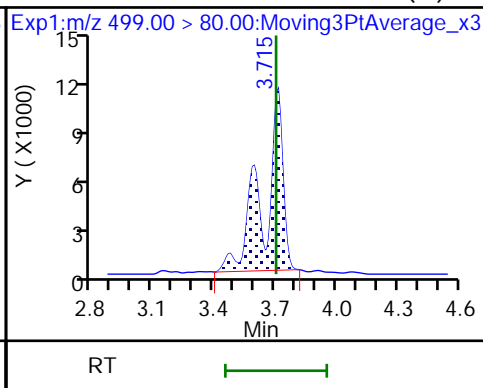
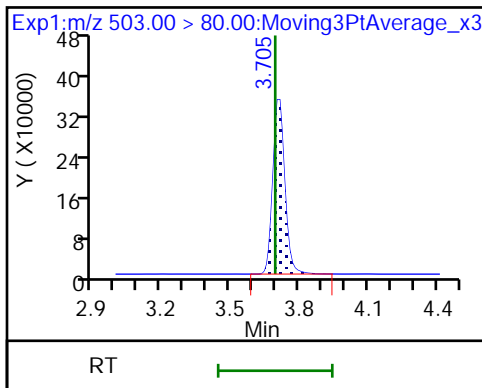




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

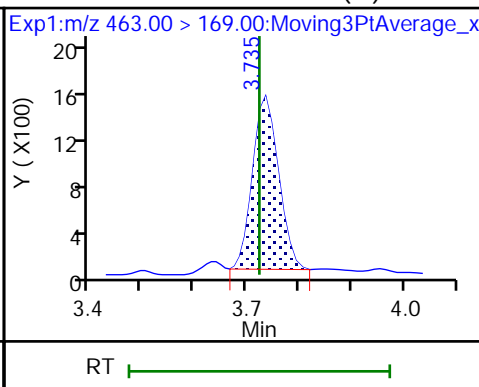
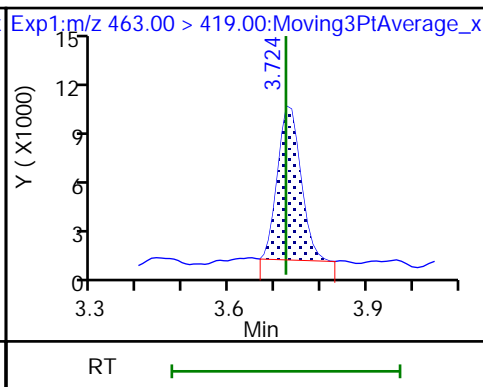
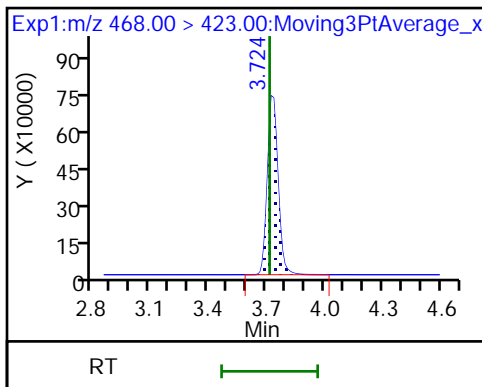
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid

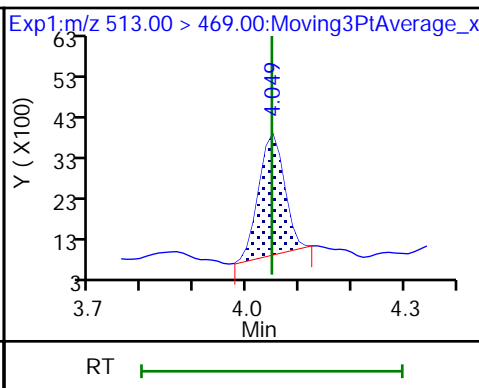
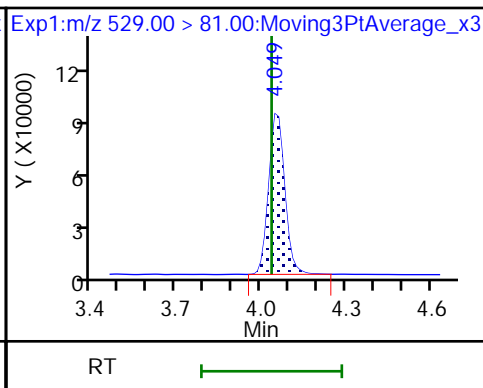
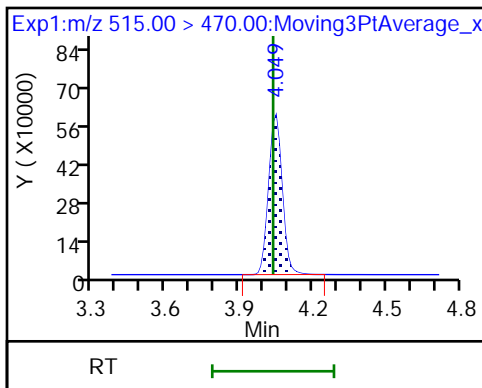
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

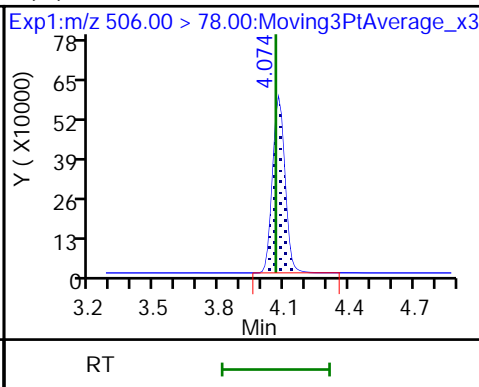
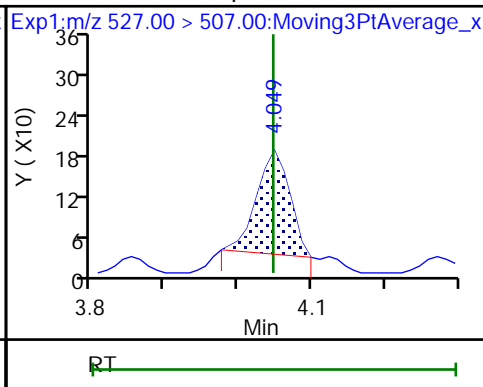
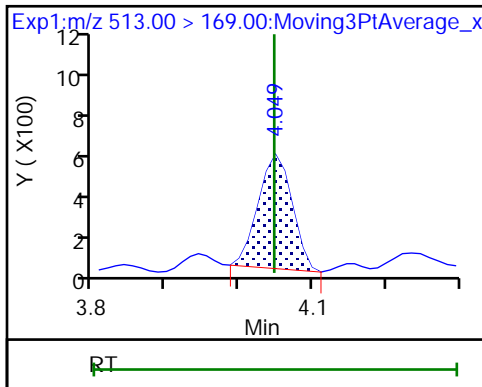
D 26 M2-8:2 FTS

24 Perfluorodecanoic acid



24 Perfluorodecanoic acid

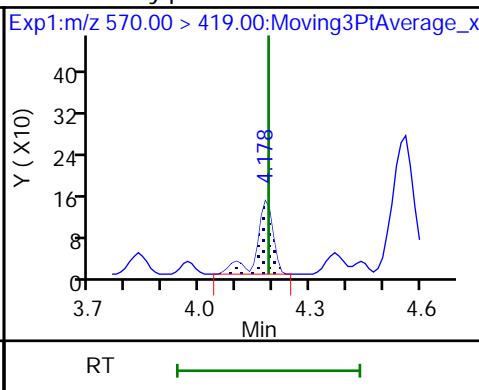
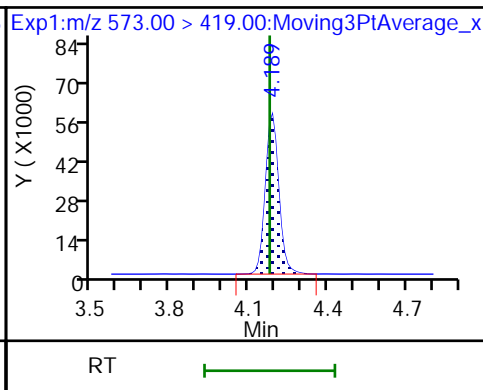
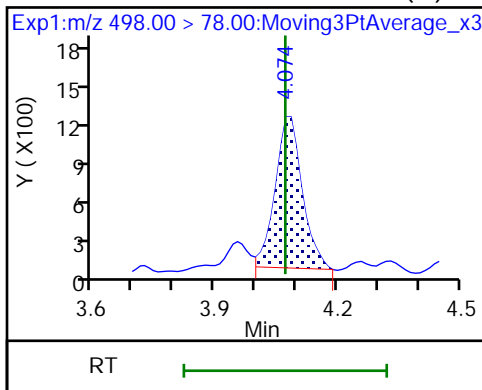
25 1H,1H,2H,2H-perfluorodecanesulfonate (M) 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

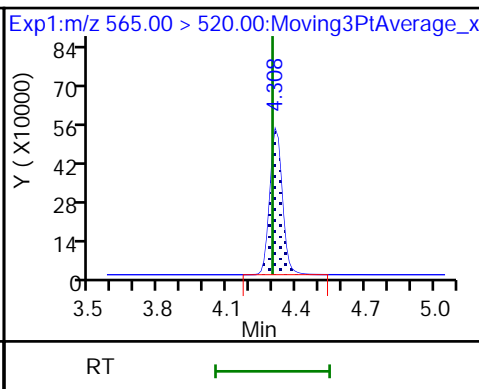
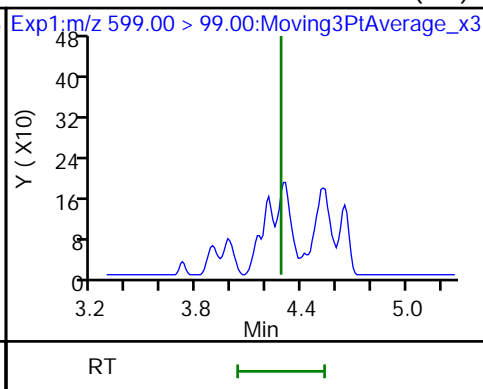
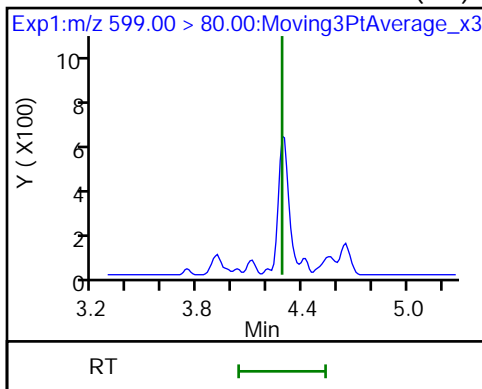
28 N-methylperfluorooctanesulfonamido (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

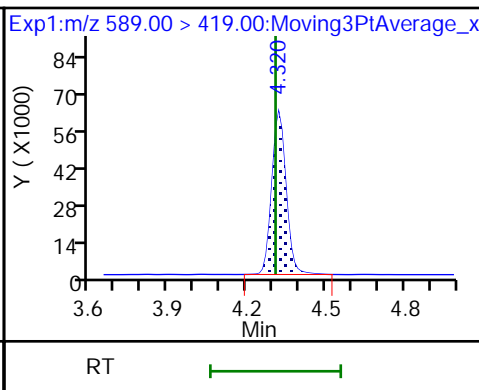
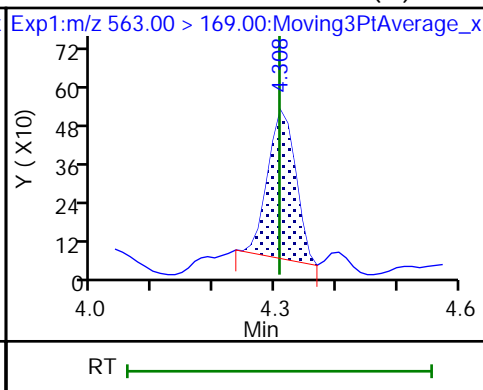
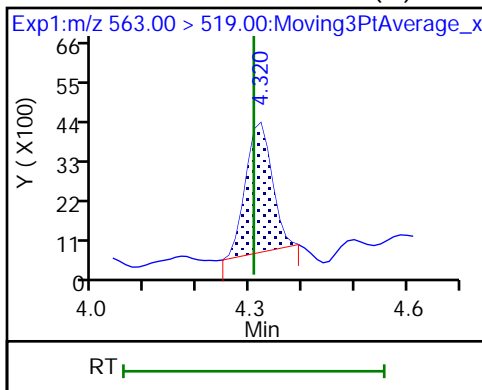
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

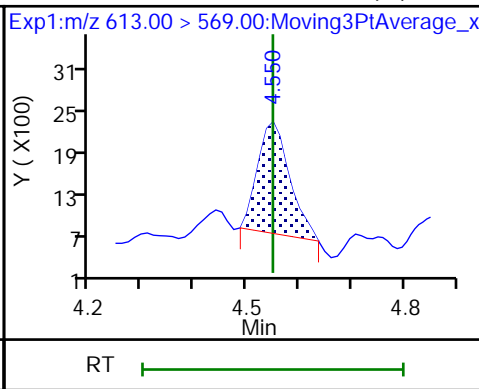
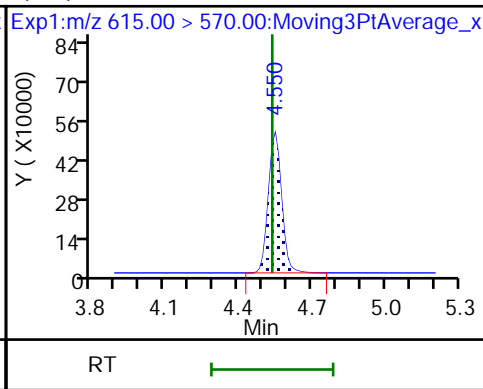
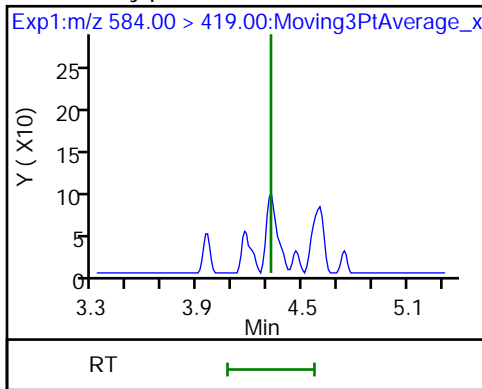
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (M)

D 33 13C2 PFDoA

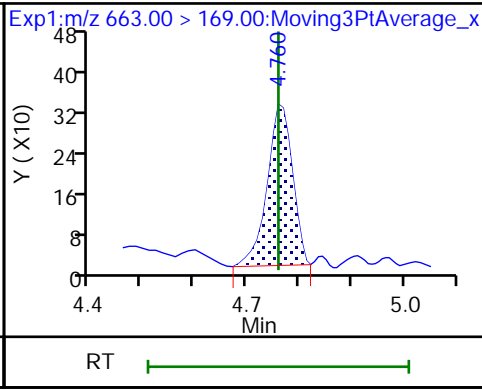
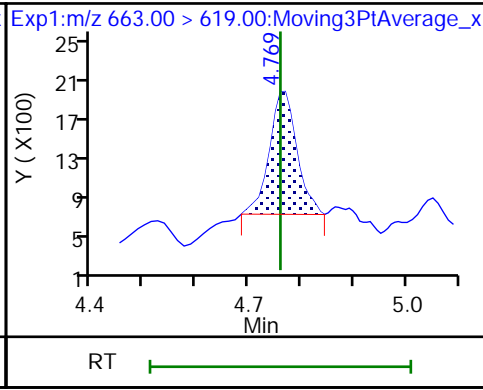
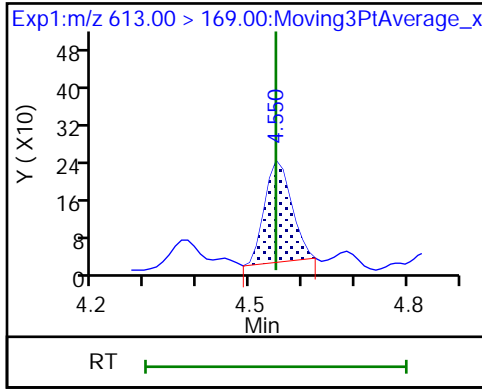
37 Perfluorododecanoic acid (M)



37 Perfluorododecanoic acid (M)

41 Perfluorotridecanoic acid (M)

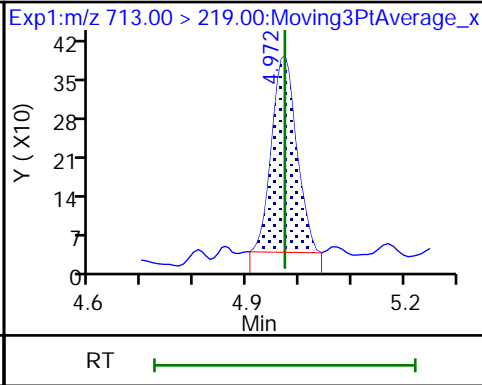
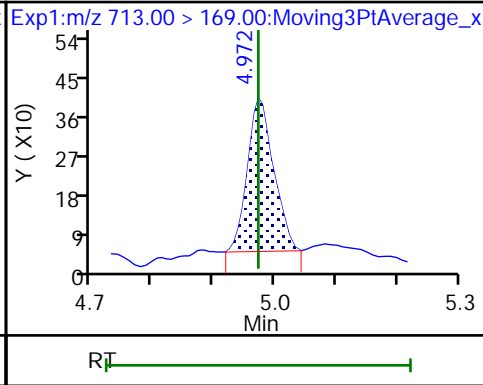
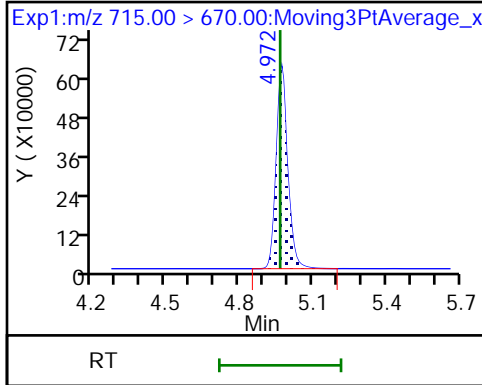
41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

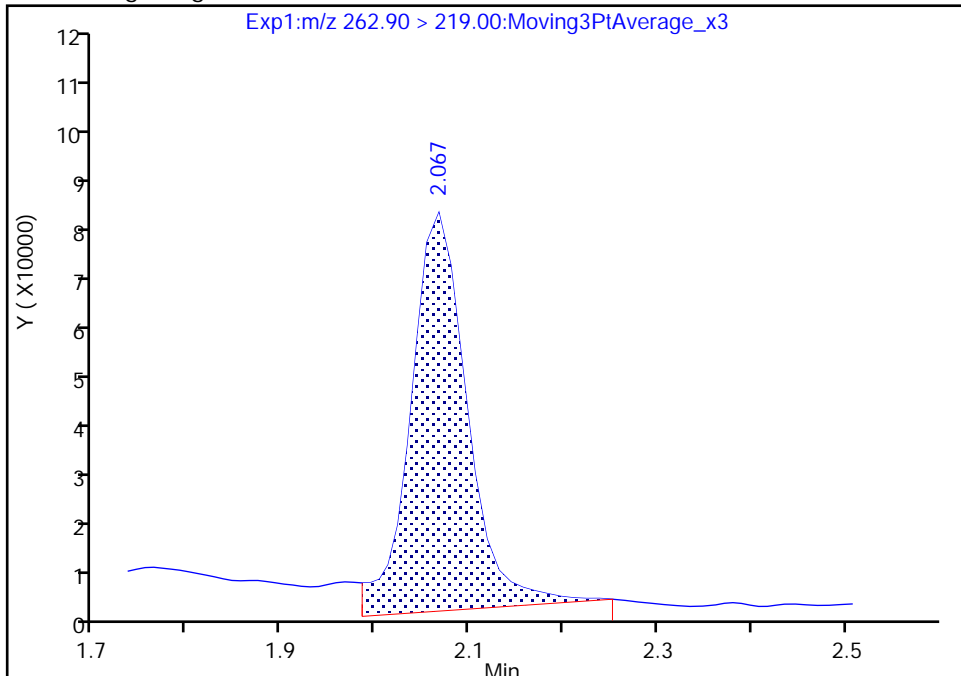
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

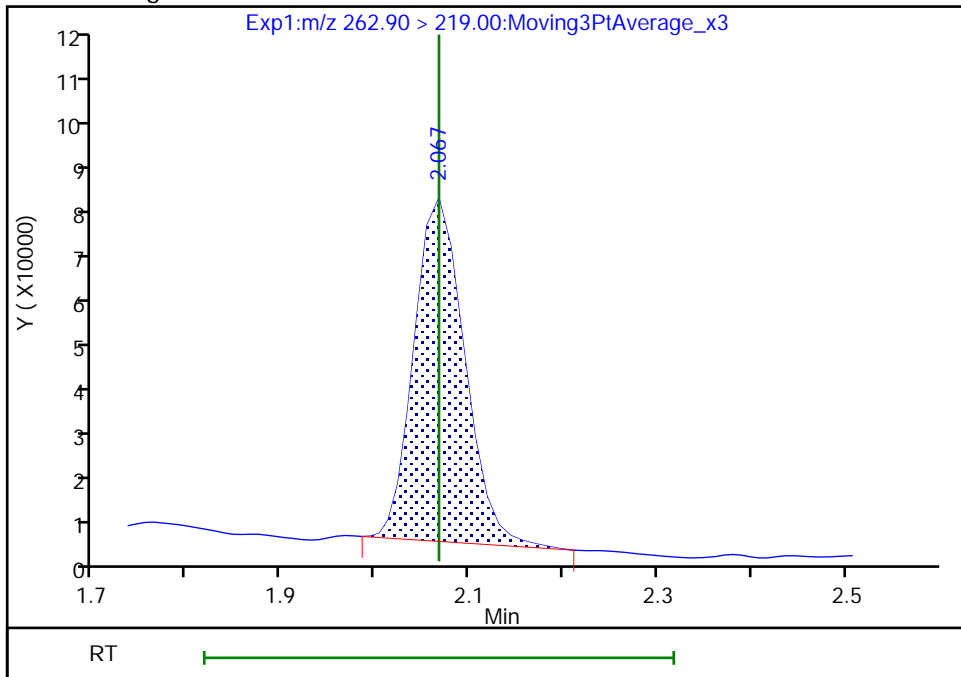
RT: 2.07  
Area: 328500  
Amount: 5.662930  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 277604  
Amount: 4.785547  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:06:30  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

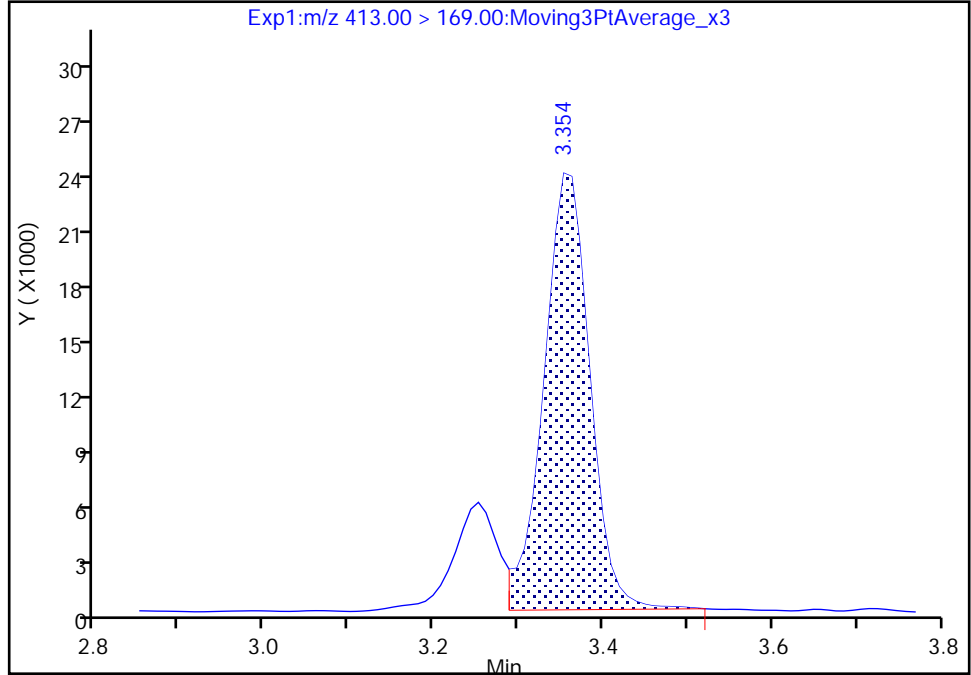
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

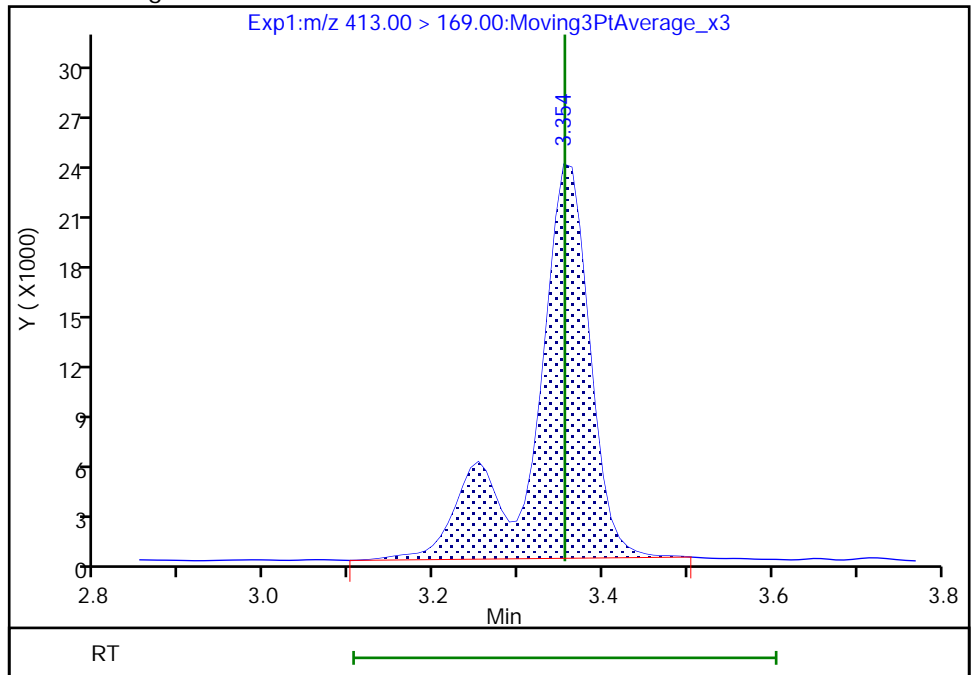
RT: 3.35  
Area: 88291  
Amount: 4.144228  
Amount Units: ng/ml

Processing Integration Results



RT: 3.35  
Area: 108450  
Amount: 4.144228  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:07:08  
Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

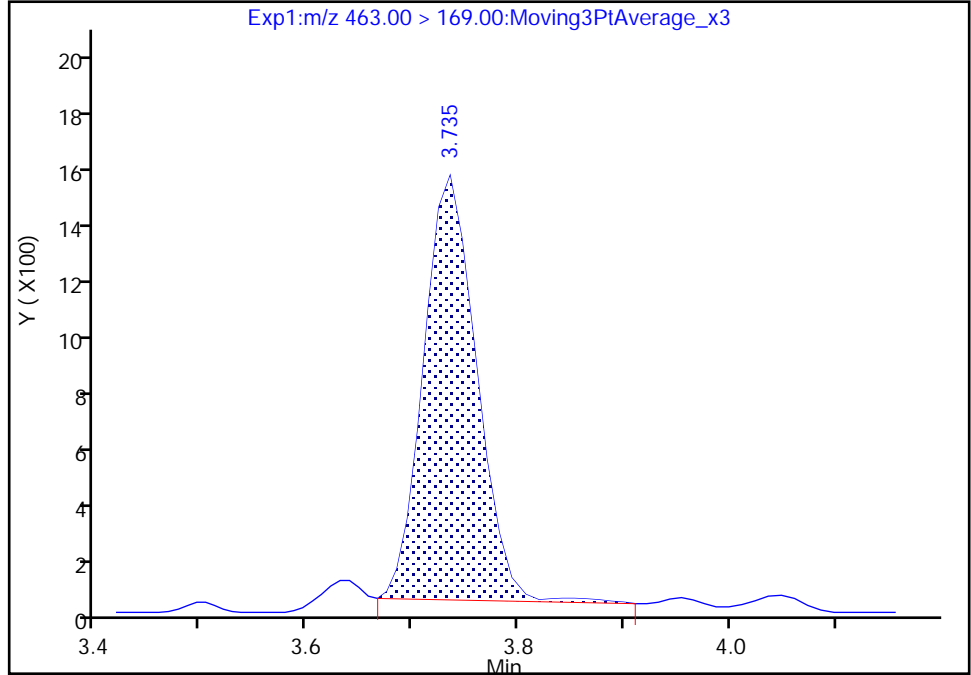
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

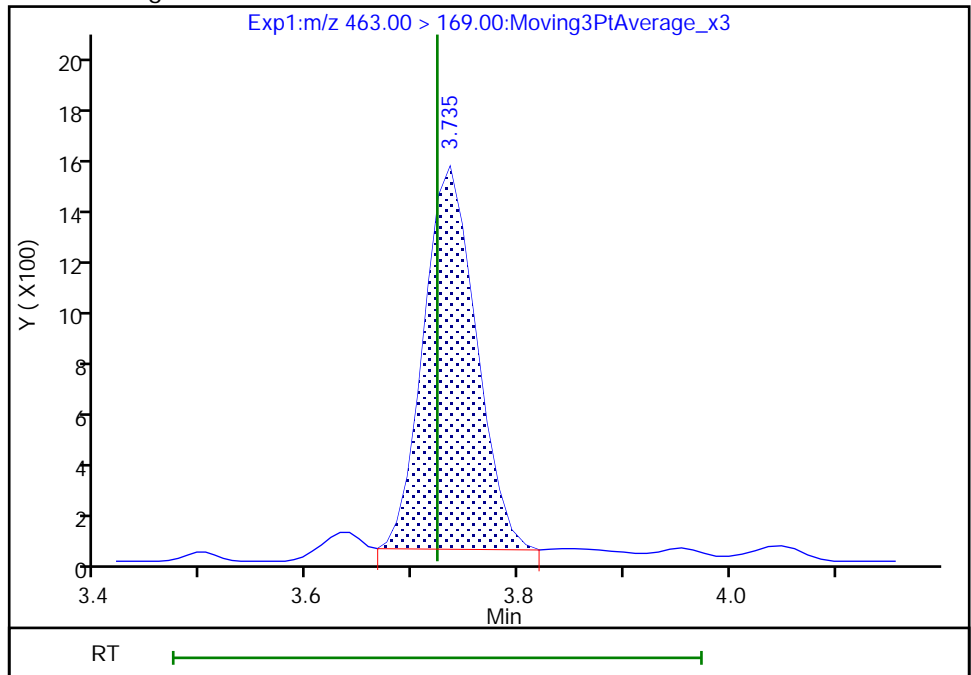
RT: 3.74  
Area: 5105  
Amount: 0.628228  
Amount Units: ng/ml

Processing Integration Results



RT: 3.74  
Area: 5026  
Amount: 0.628228  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:07:44  
Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

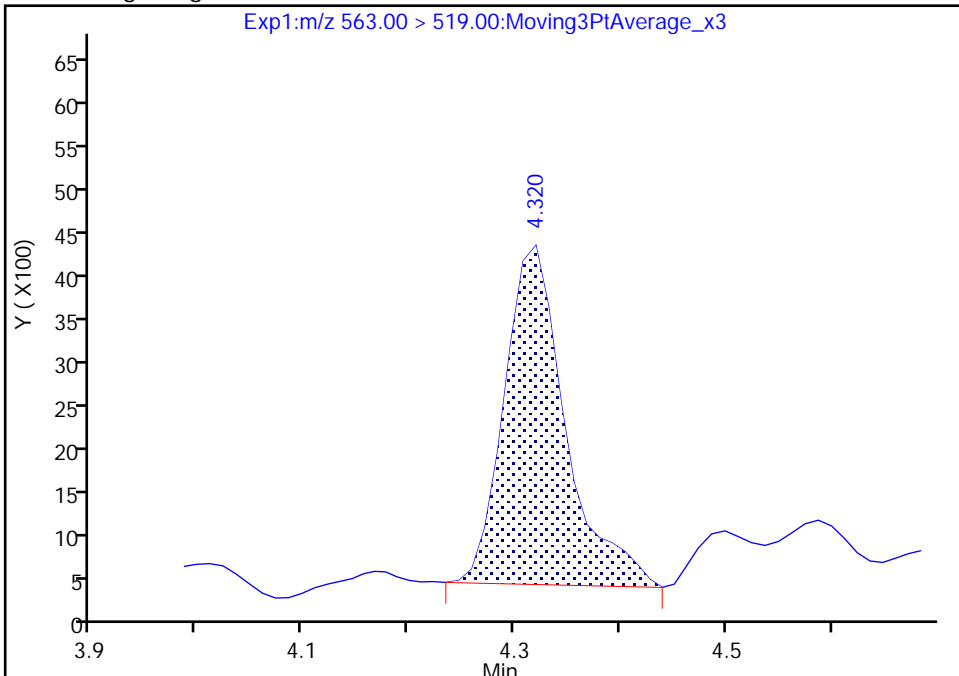
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

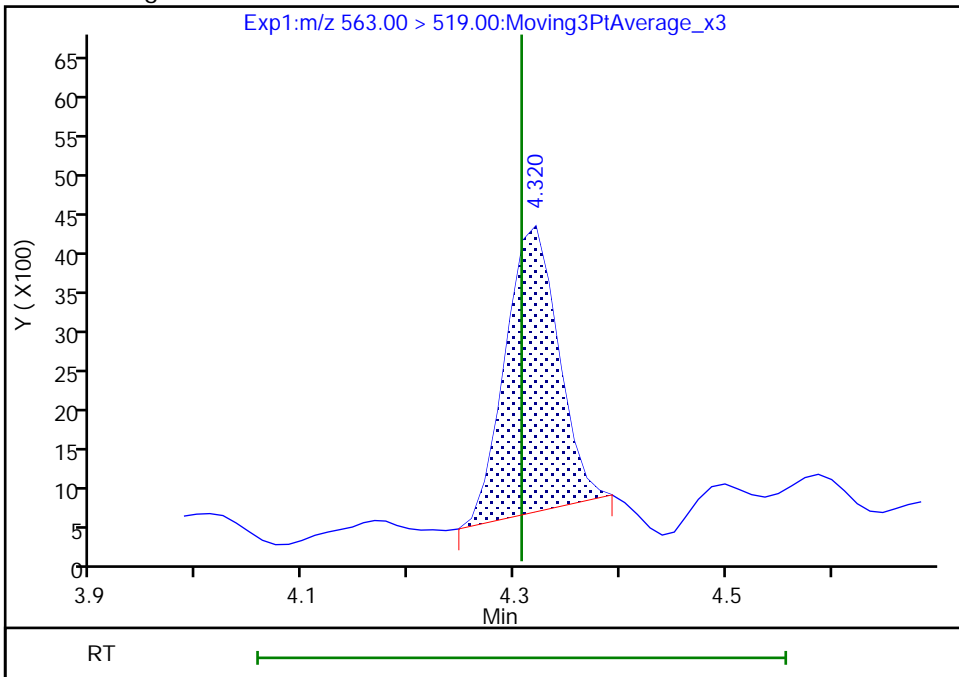
RT: 4.32  
Area: 15659  
Amount: 0.458480  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 12663  
Amount: 0.370760  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:09:12  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

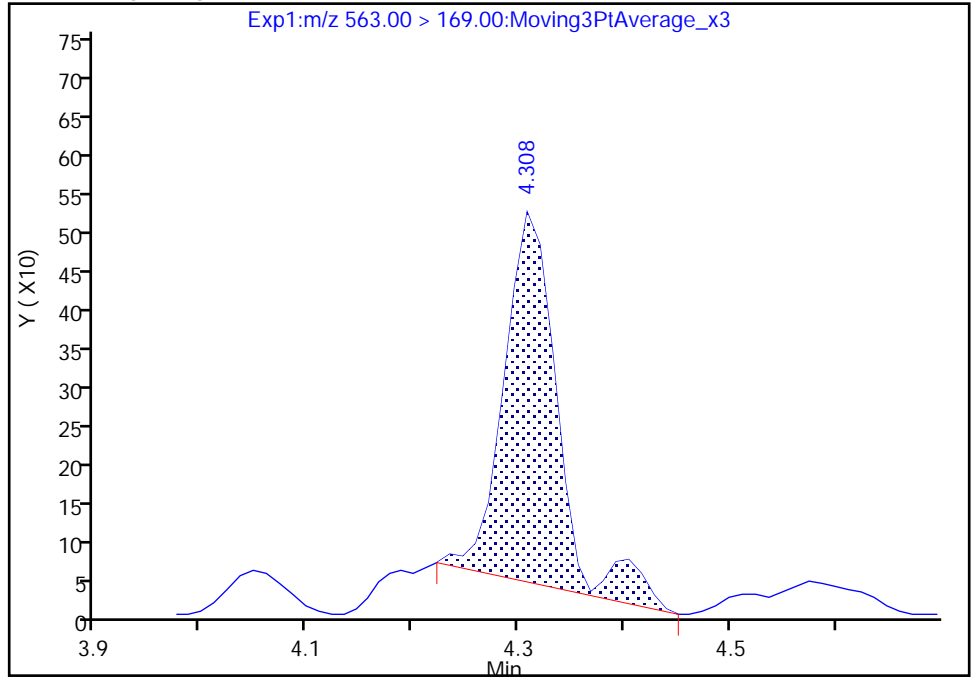
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

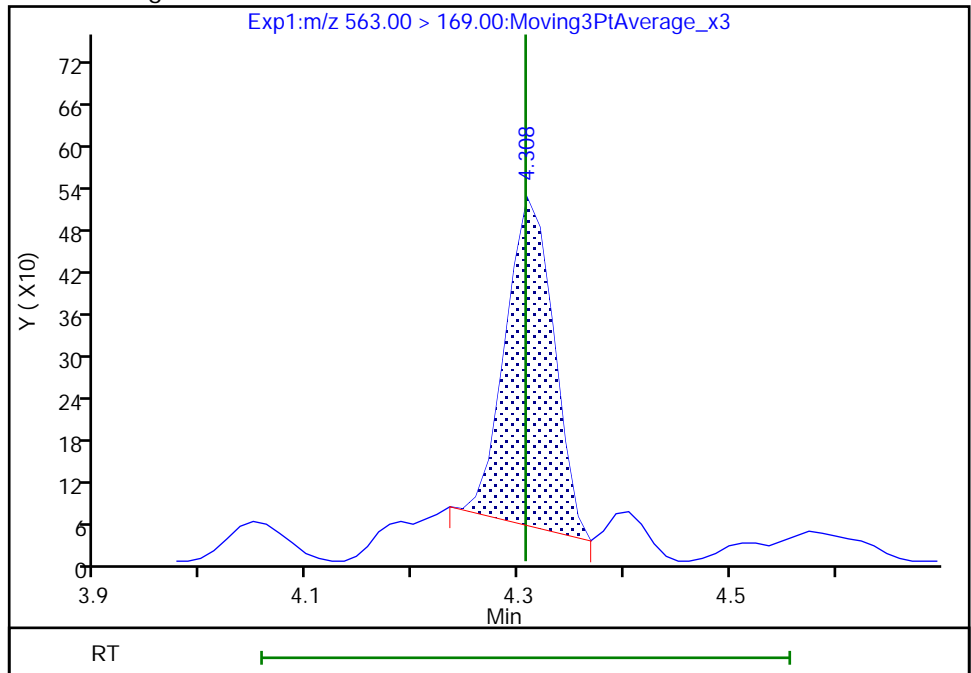
RT: 4.31  
Area: 1709  
Amount: 0.458480  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 1484  
Amount: 0.370760  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:09:16

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Burlington

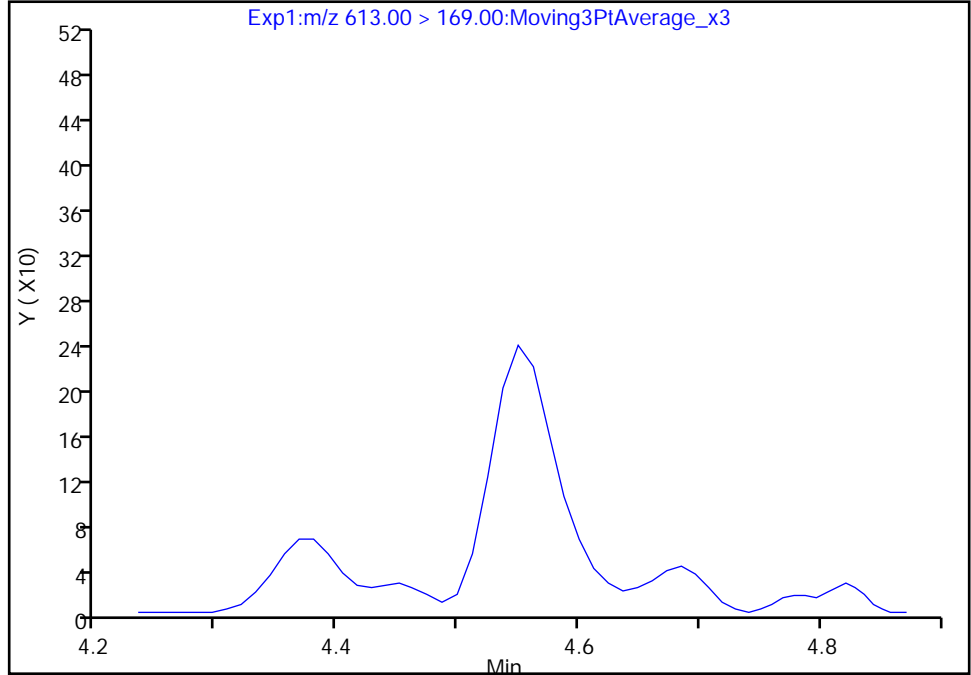
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

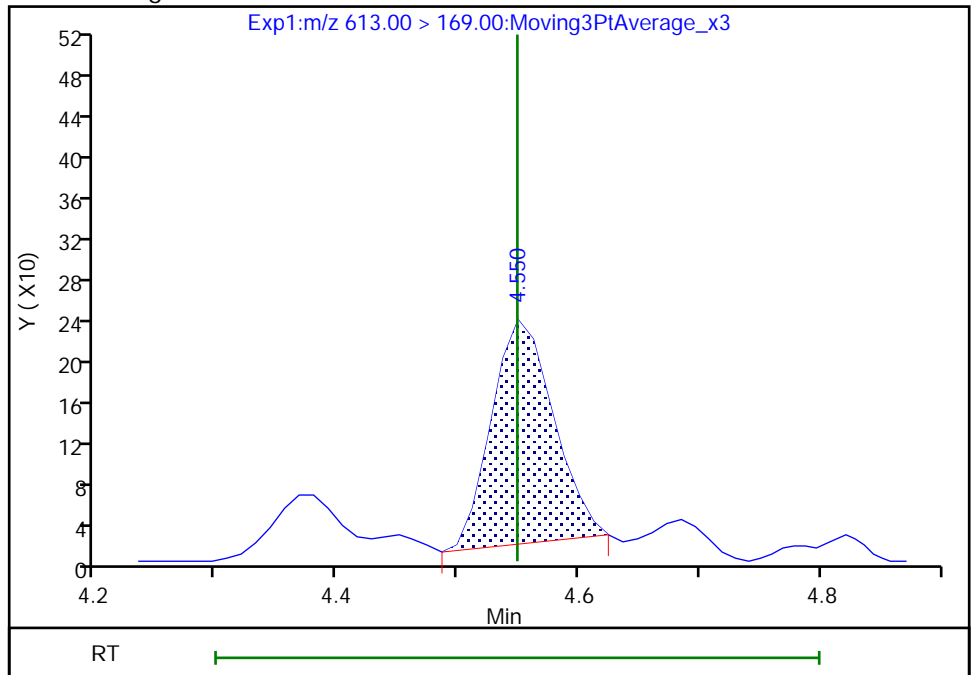
Not Detected  
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55  
Area: 781  
Amount: 0.173014  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:09:36  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

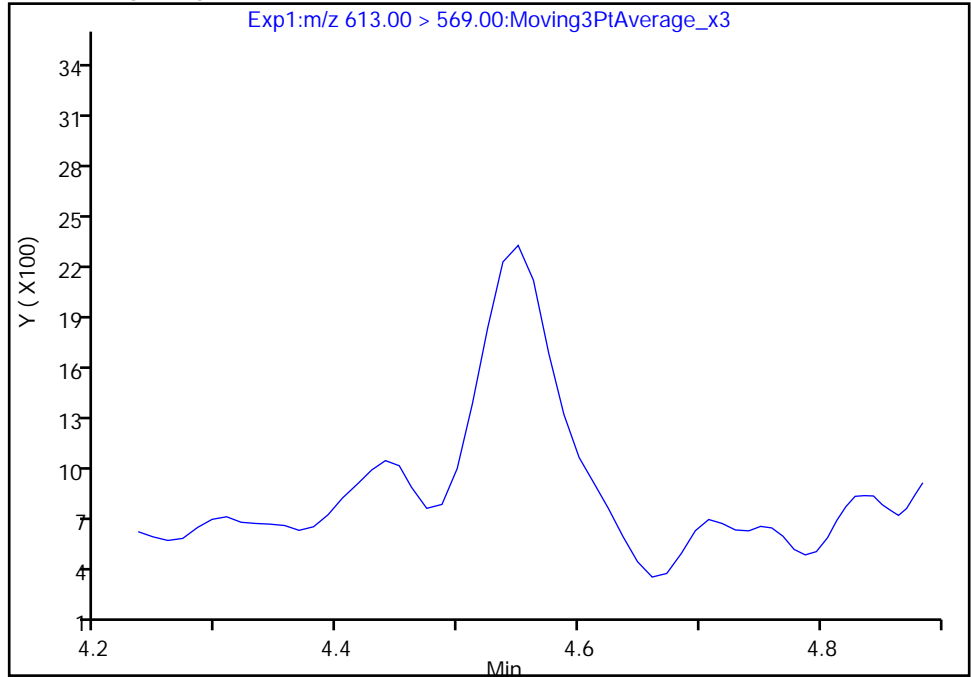
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

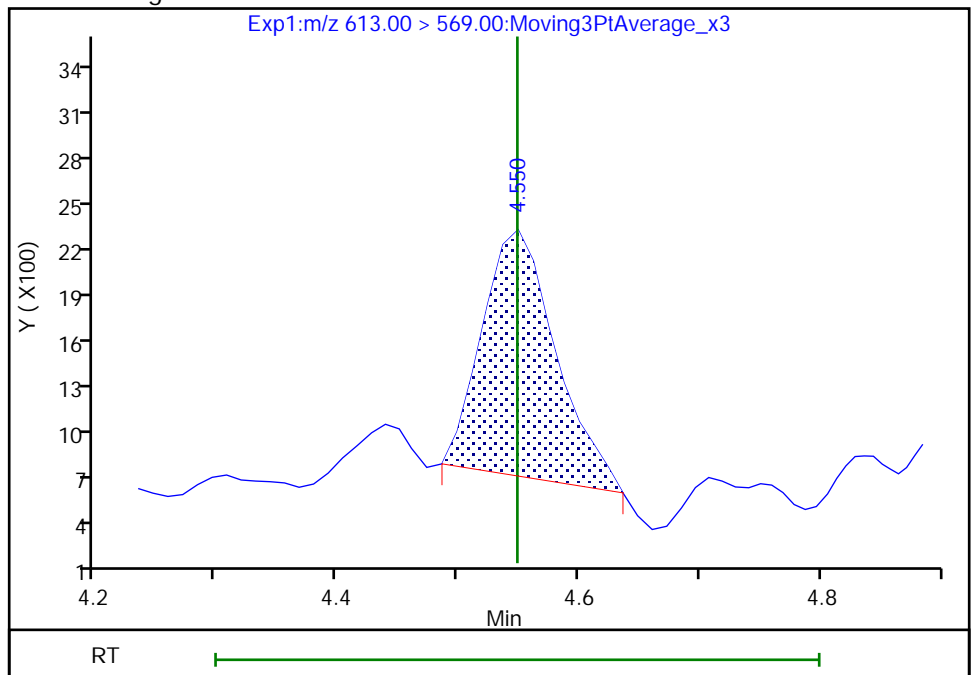
Not Detected  
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55  
Area: 6698  
Amount: 0.173014  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:09:36

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

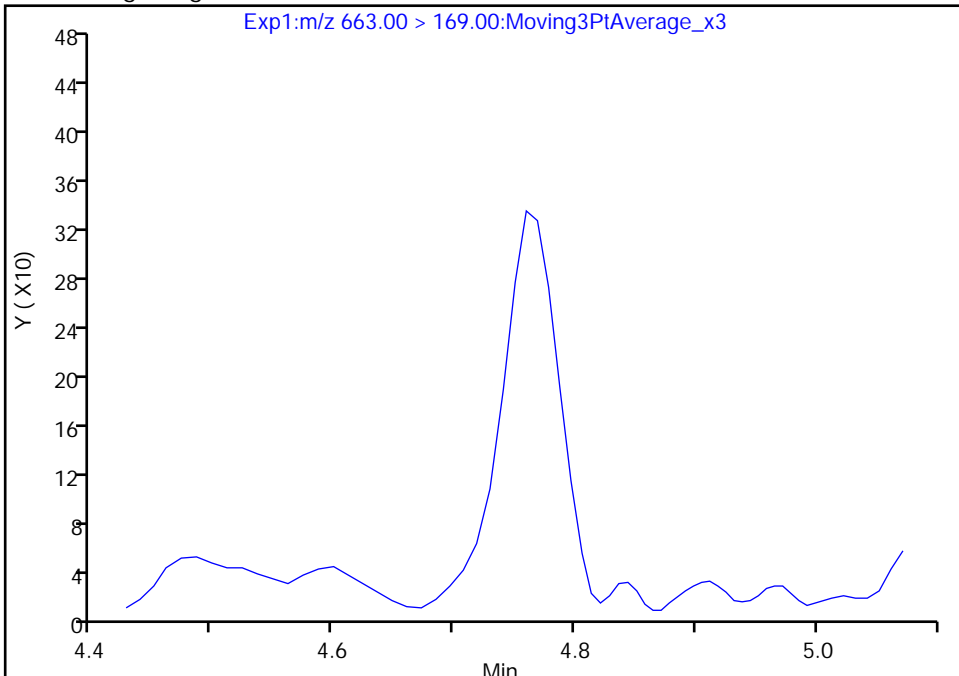
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

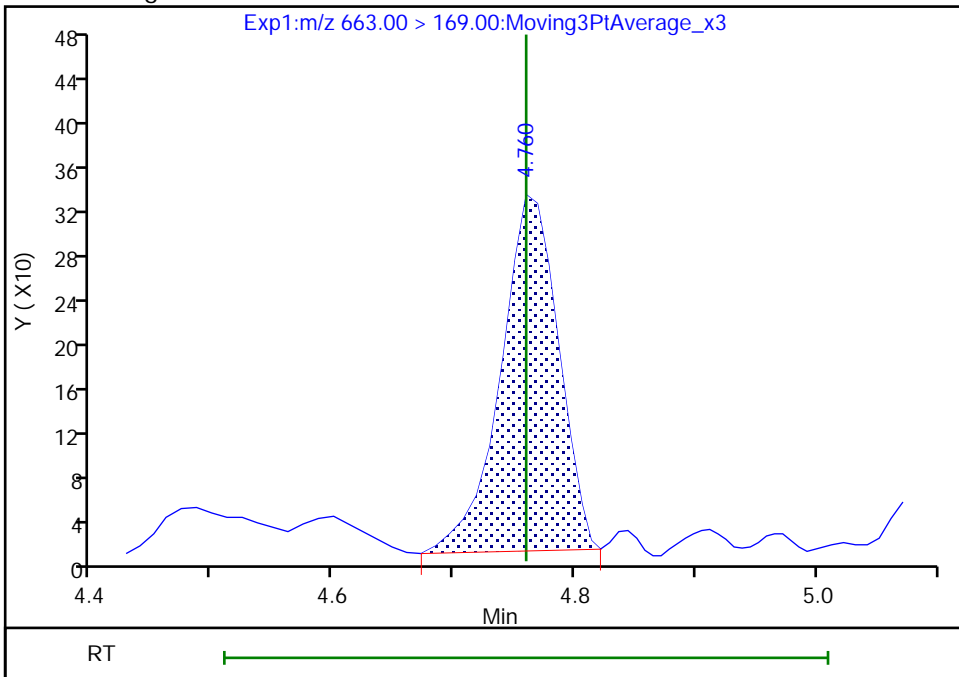
Not Detected  
Expected RT: 4.76

Processing Integration Results



Manual Integration Results

RT: 4.76  
Area: 1078  
Amount: 0.130745  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:09:53  
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

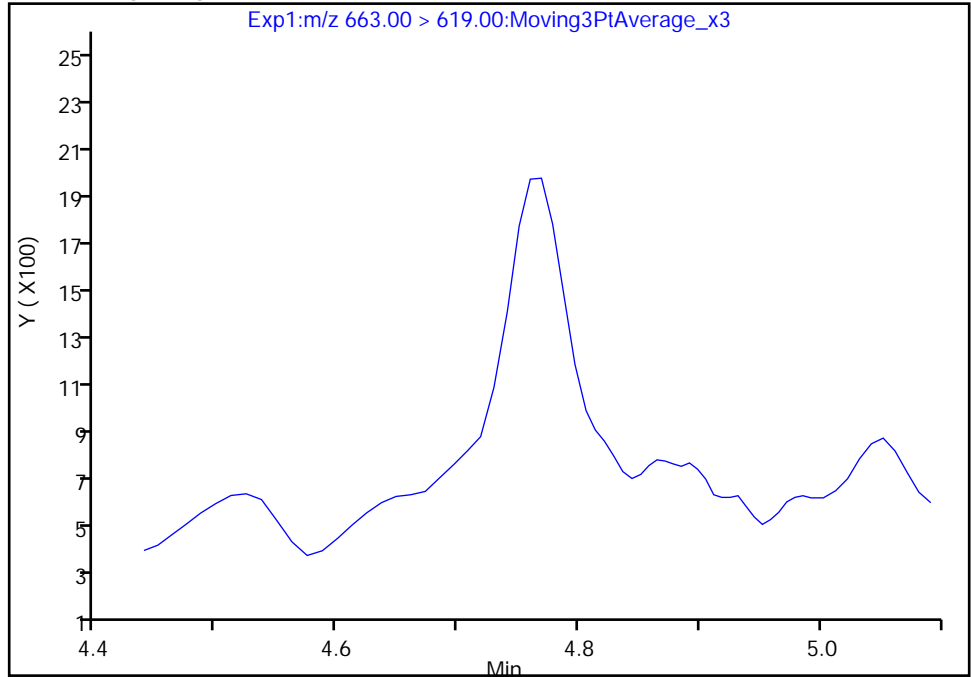
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

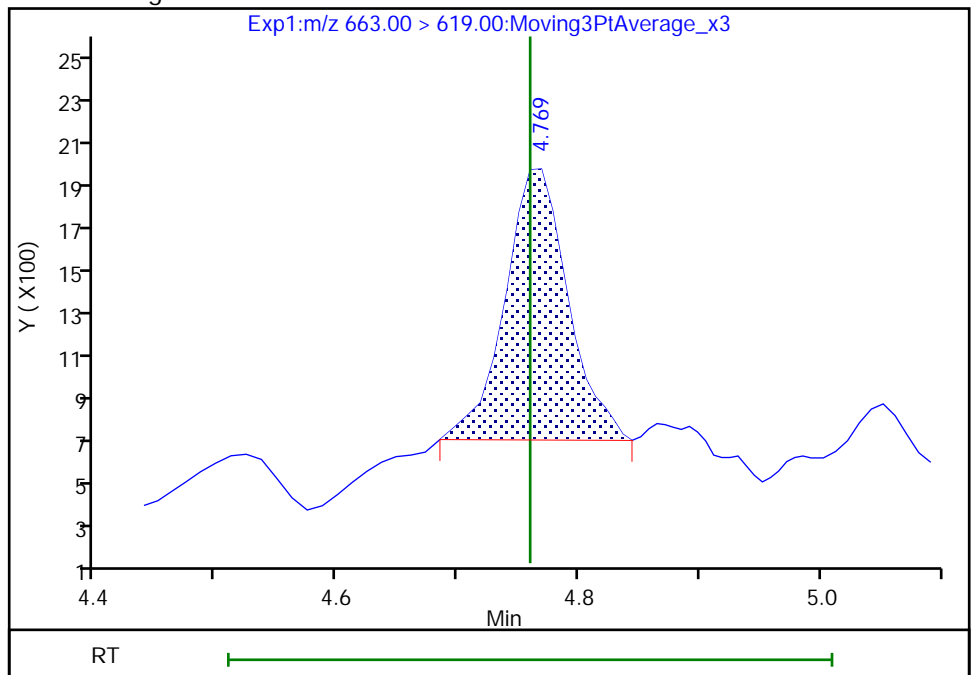
Not Detected  
Expected RT: 4.76

Processing Integration Results



Manual Integration Results

RT: 4.77  
Area: 4543  
Amount: 0.130745  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

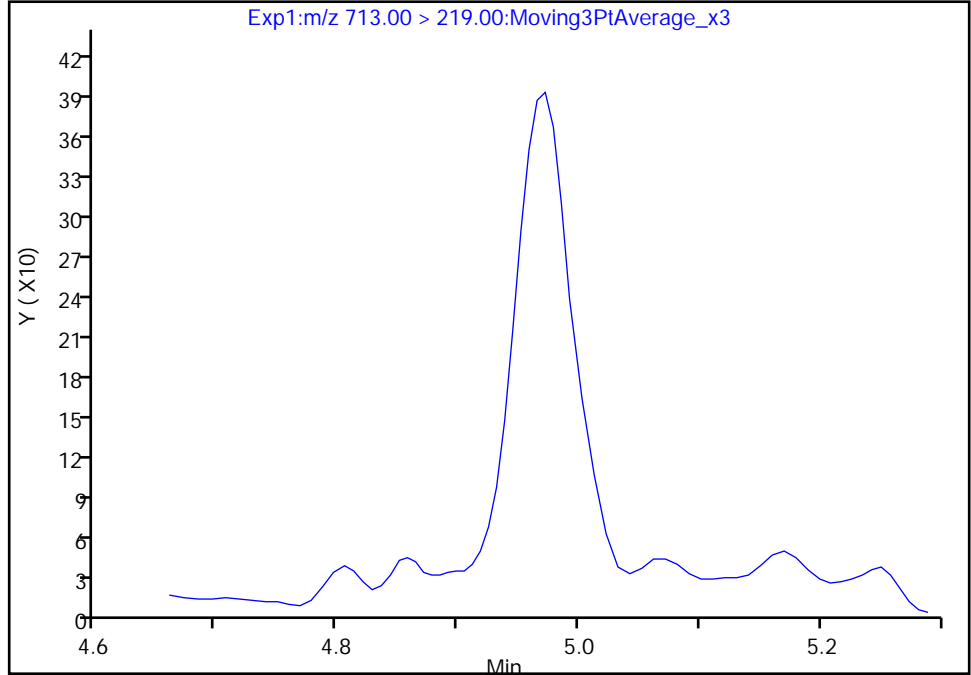
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

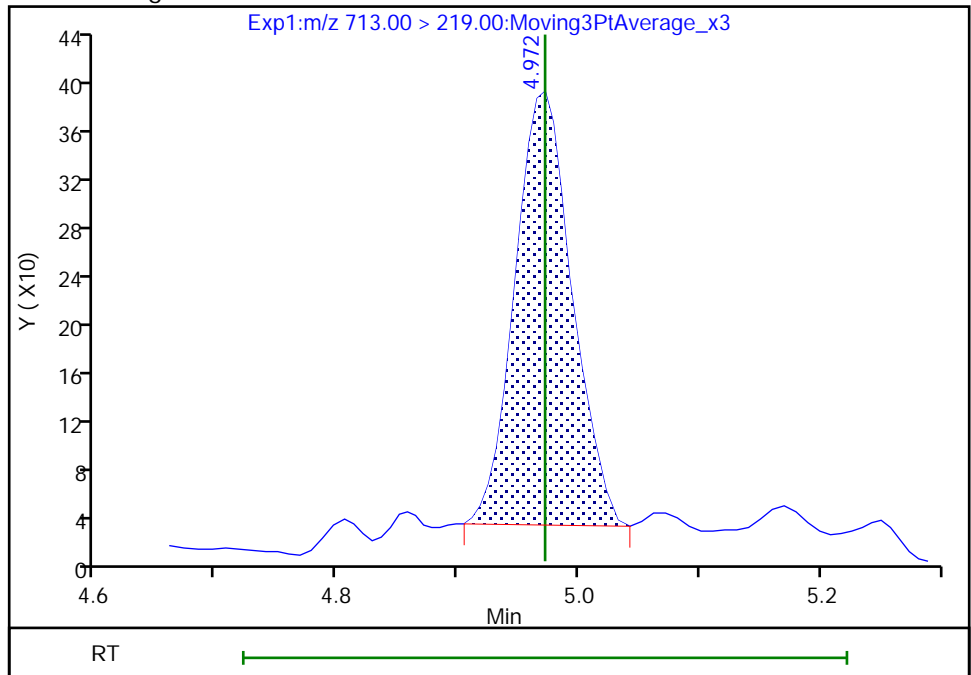
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 1179  
Amount: 0.194836  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:10:06  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

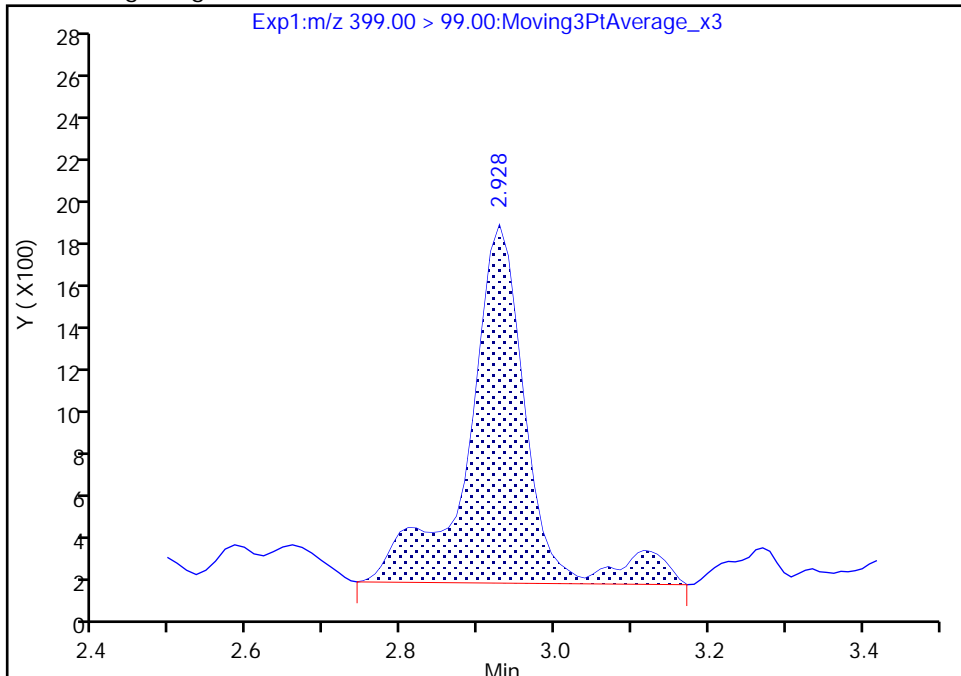
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

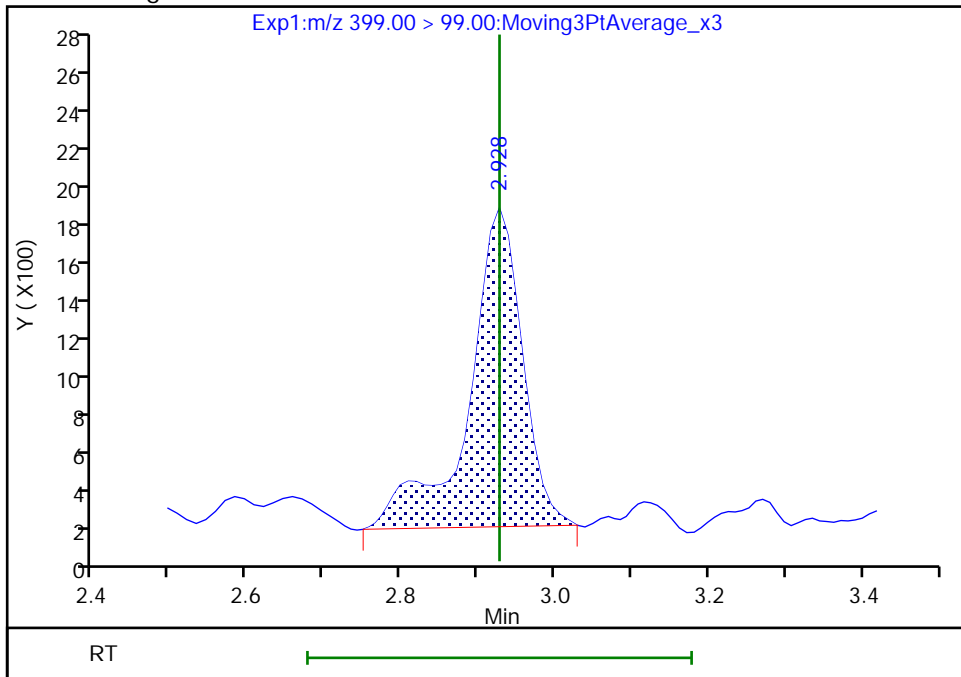
RT: 2.93  
Area: 8975  
Amount: 0.685528  
Amount Units: ng/ml

Processing Integration Results



RT: 2.93  
Area: 7952  
Amount: 0.645584  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:06:42  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

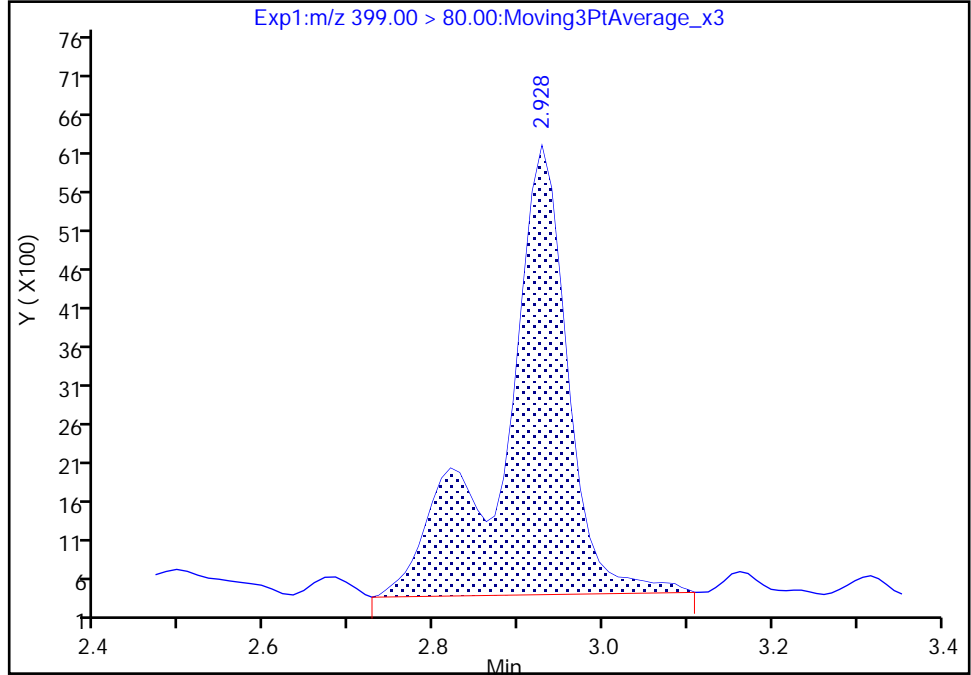
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

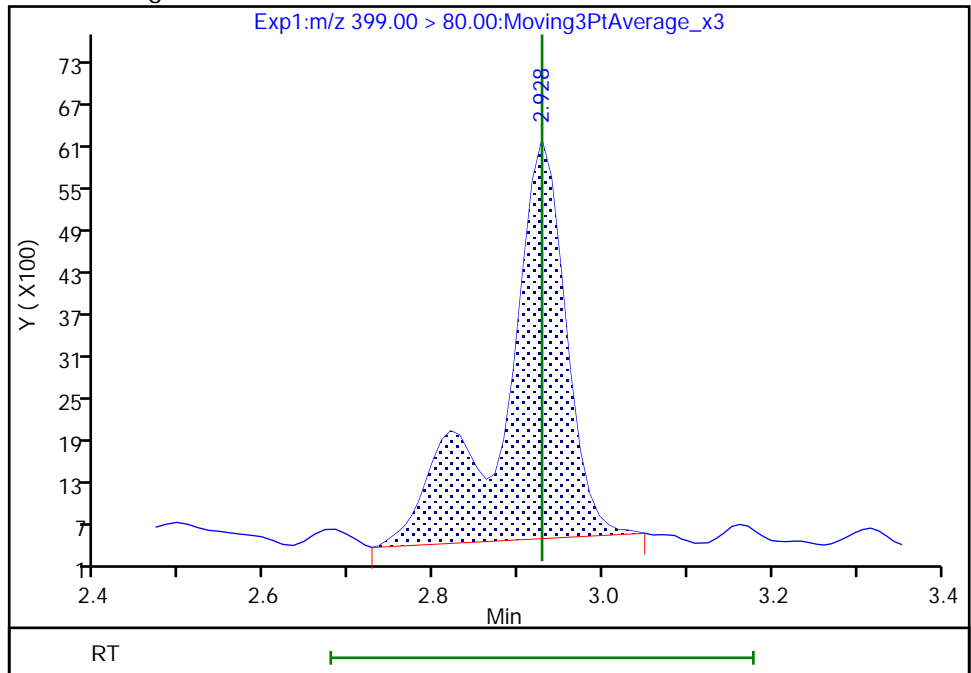
RT: 2.93  
Area: 31098  
Amount: 0.685528  
Amount Units: ng/ml

Processing Integration Results



RT: 2.93  
Area: 29286  
Amount: 0.645584  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:06:45

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

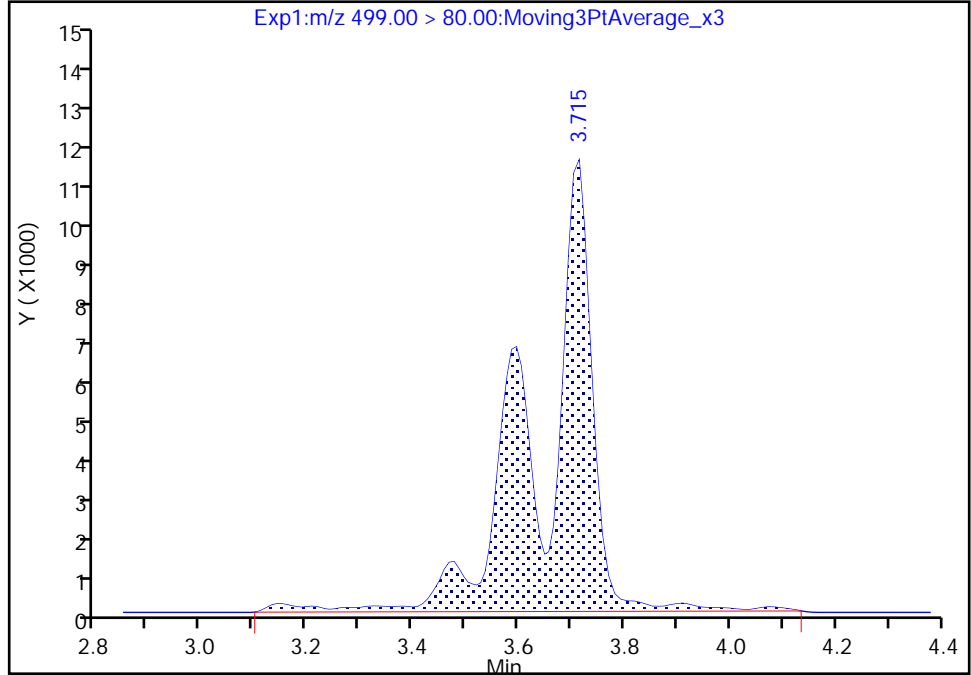
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

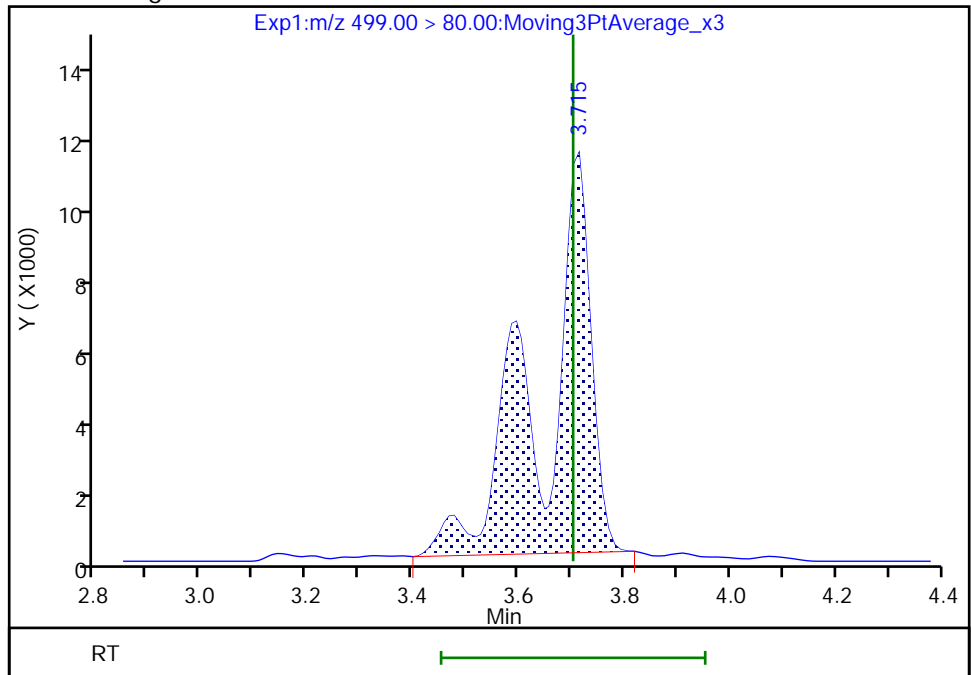
RT: 3.71  
Area: 77469  
Amount: 3.123008  
Amount Units: ng/ml

Processing Integration Results



RT: 3.71  
Area: 69029  
Amount: 2.782766  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:07:22  
Audit Action: Manually Integrated

Audit Reason: Isomers



Eurofins TestAmerica, Burlington

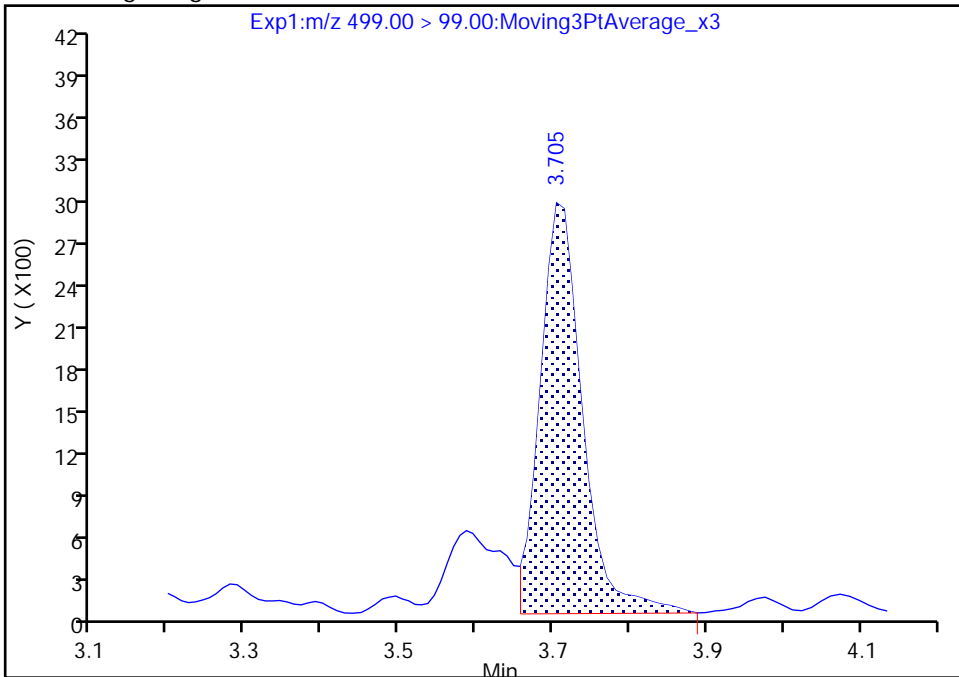
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

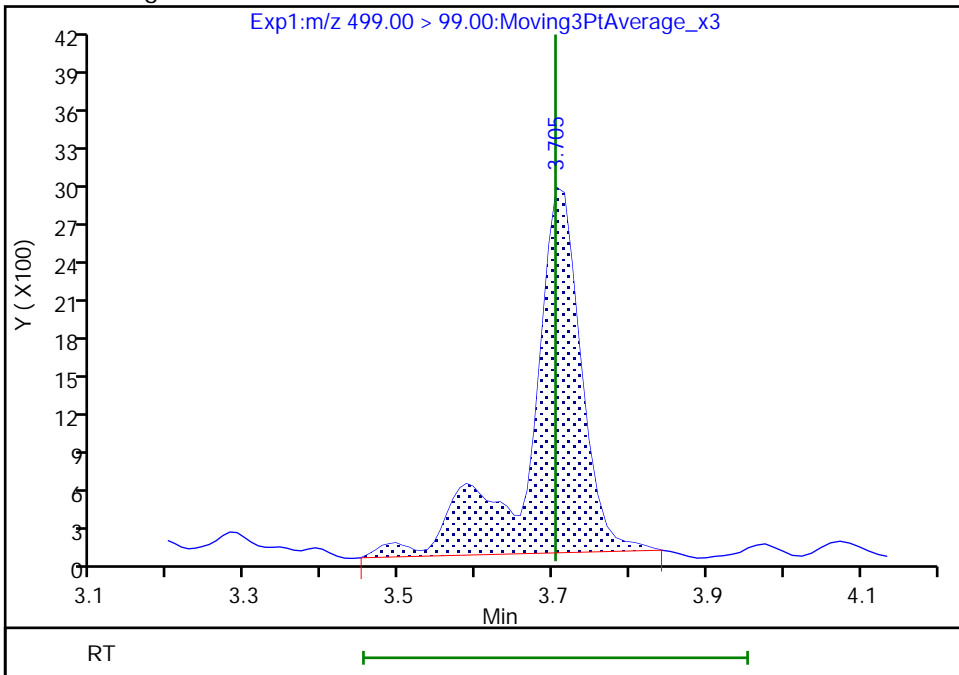
RT: 3.70  
Area: 11140  
Amount: 3.123008  
Amount Units: ng/ml

Processing Integration Results



RT: 3.70  
Area: 13564  
Amount: 2.782766  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:07:37

Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

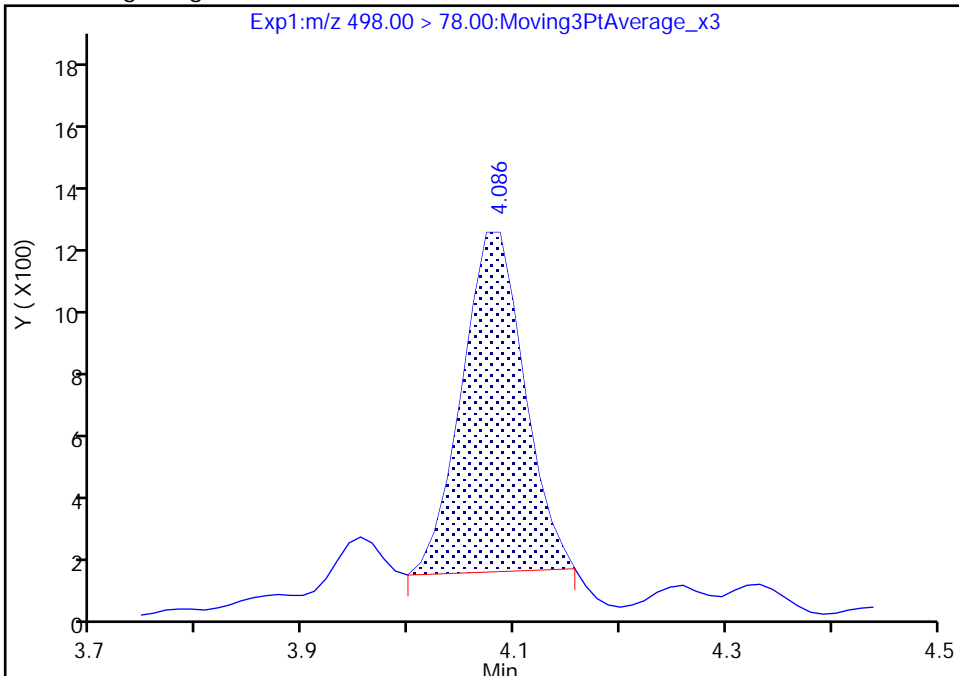
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

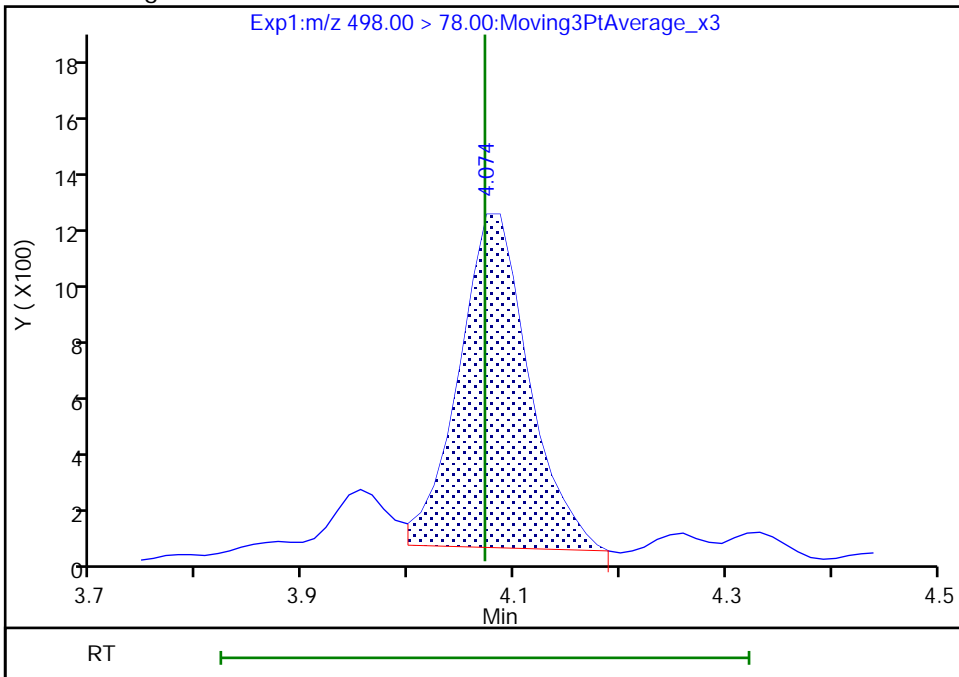
RT: 4.09  
Area: 4381  
Amount: 0.104936  
Amount Units: ng/ml

Processing Integration Results



RT: 4.07  
Area: 5338  
Amount: 0.127858  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:08:27  
Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins TestAmerica, Burlington

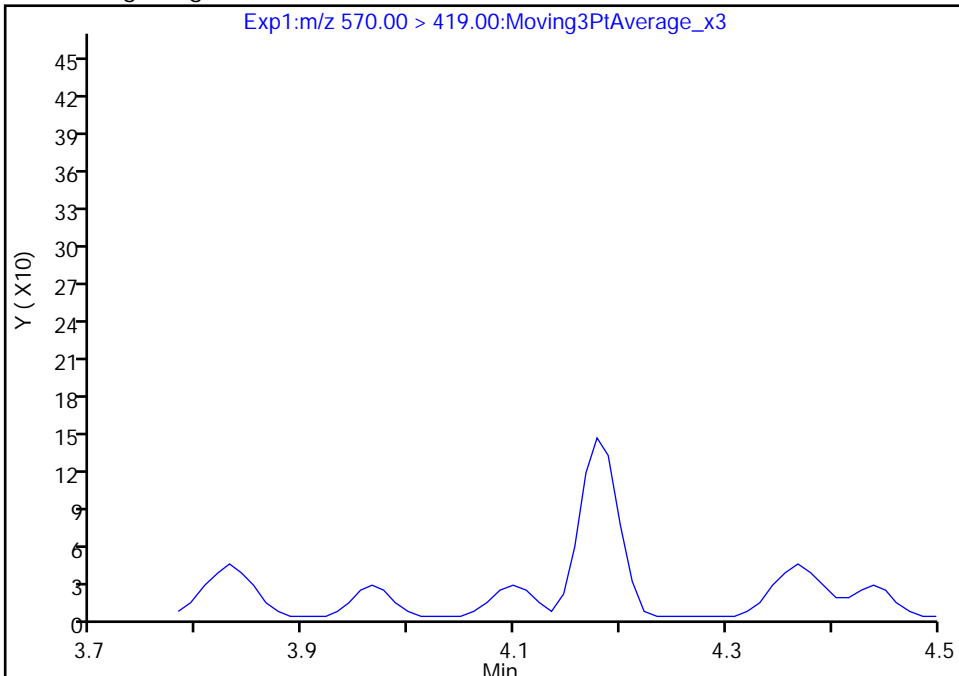
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

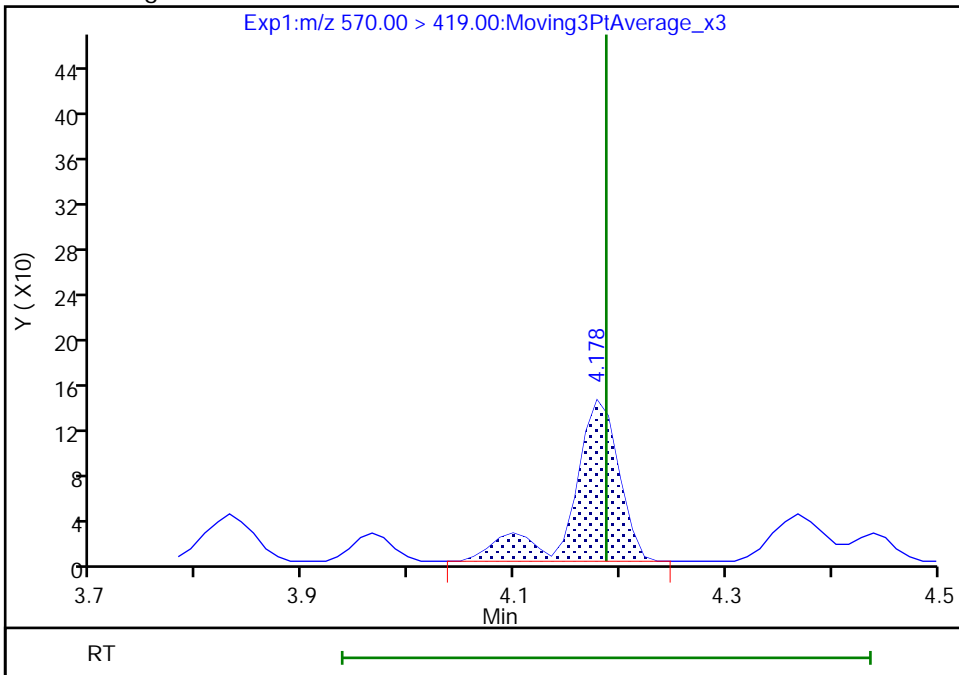
Processing Integration Results

Not Detected  
Expected RT: 4.19



Manual Integration Results

RT: 4.18  
Area: 439  
Amount: 0.140873  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

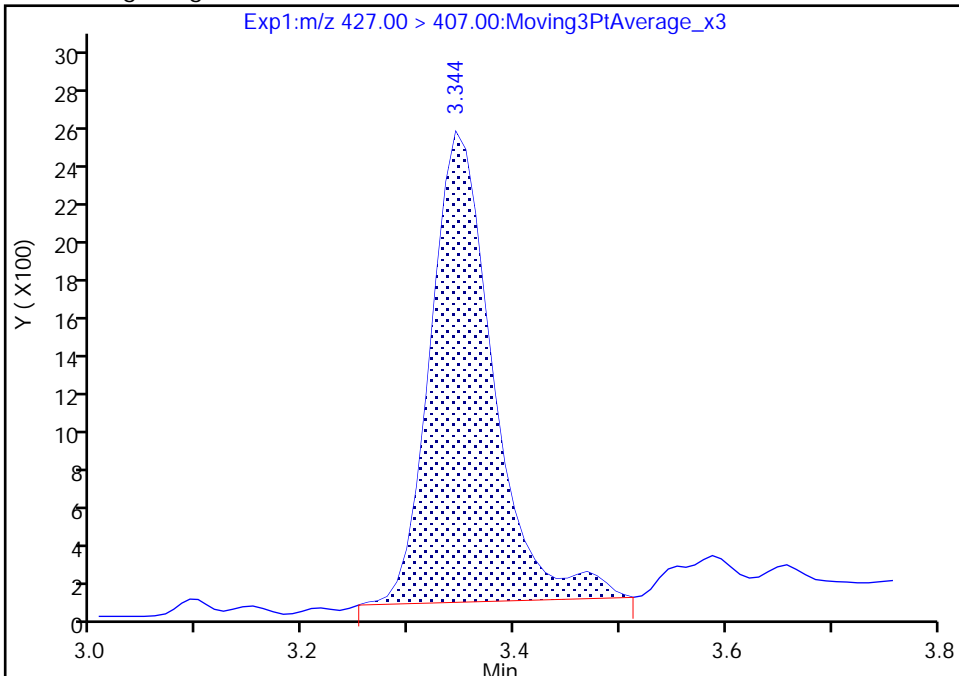
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:, CAS: 27619-97-2

Signal: 1

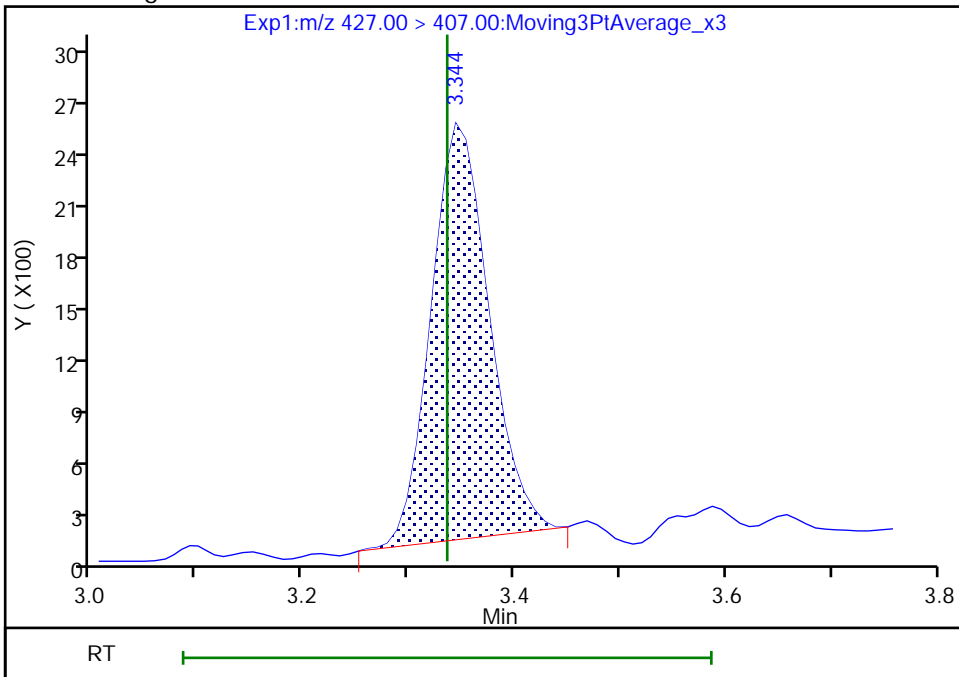
RT: 3.34  
Area: 10083  
Amount: 0.744993  
Amount Units: ng/ml

Processing Integration Results



RT: 3.34  
Area: 9131  
Amount: 0.674653  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:06:57

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

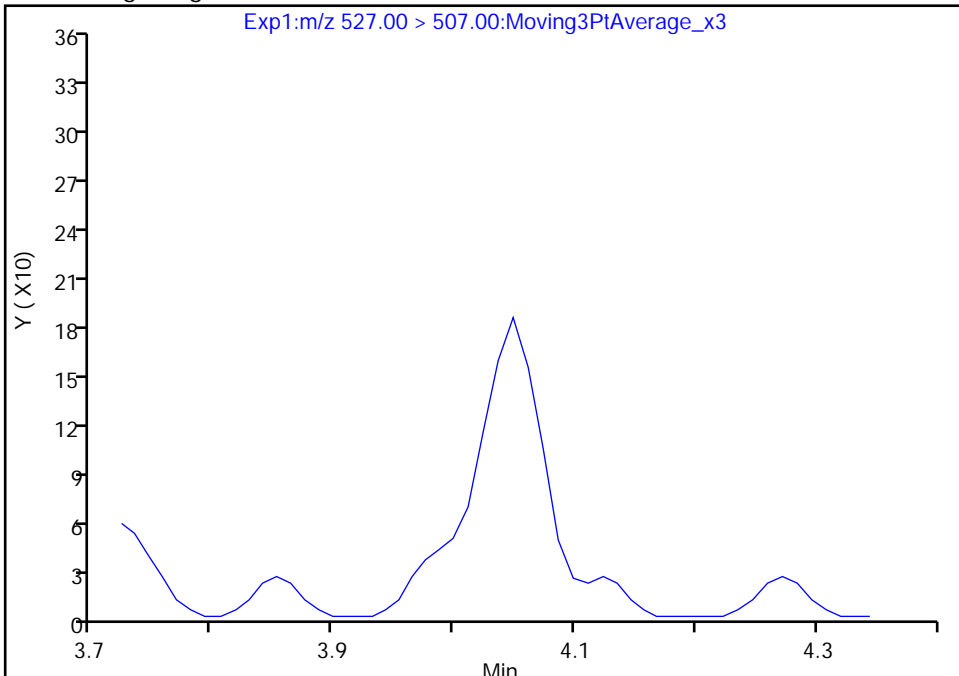
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E013.d  
Injection Date: 02-Aug-2019 05:25:47 Instrument ID: LC812  
Lims ID: 480-156213-G-12-A Lab Sample ID: 200-156213-12  
Client ID: 356023-ERT4  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 13  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

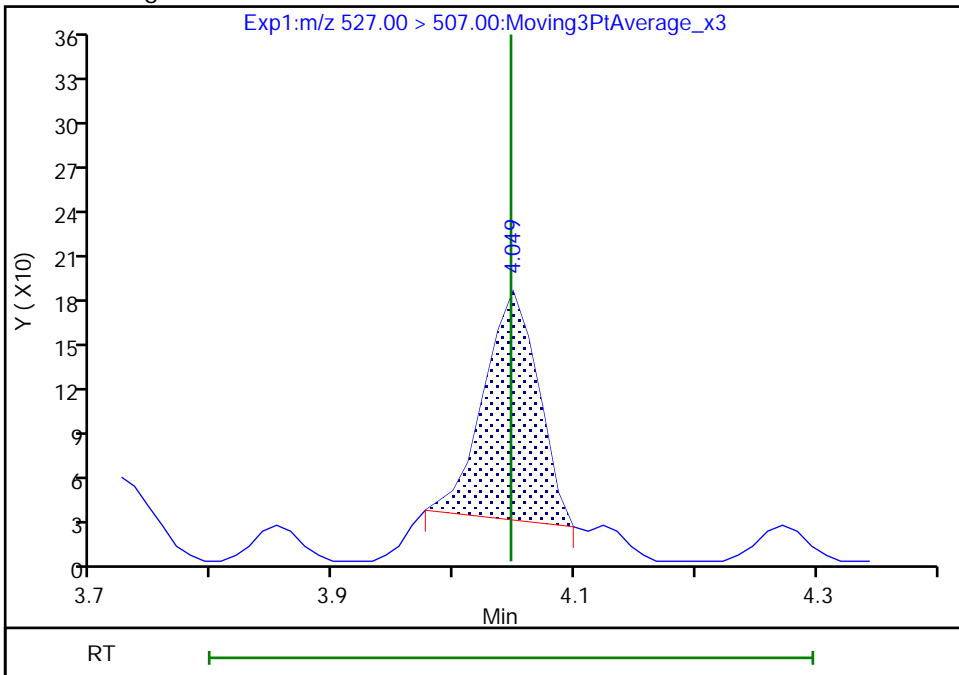
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.05  
Area: 475  
Amount: 0.047508  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:08:03  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW4 Lab Sample ID: 480-156213-13  
 Matrix: Water Lab File ID: SC080119E014.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 14:47  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 311.5 (mL) Date Analyzed: 08/02/2019 05:33  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	6.9		1.6	0.80
2706-90-3	Perfluoropentanoic acid (PFPeA)	12		1.6	0.51
307-24-4	Perfluorohexanoic acid (PFHxA)	6.3		1.6	0.61
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.2		1.6	0.73
335-67-1	Perfluorooctanoic acid (PFOA)	6.4		1.6	0.51
375-95-1	Perfluorononanoic acid (PFNA)	0.42	J	1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.62
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.47
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.74
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.7		1.6	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.72	J	1.6	0.64
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.1	I	1.6	0.49
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.0	8.0
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.7
39108-34-4	8:2 FTS	ND		16	2.3

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW4 Lab Sample ID: 480-156213-13  
 Matrix: Water Lab File ID: SC080119E014.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 14:47  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 311.5 (mL) Date Analyzed: 08/02/2019 05:33  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	79		25-150
STL00992	13C4 PFBA	69		25-150
STL01893	13C5 PFPeA	85		25-150
STL00993	13C2 PFHxA	88		50-150
STL01892	13C4 PFHpA	90		50-150
STL00990	13C4 PFOA	90		50-150
STL00995	13C5 PFNA	90		50-150
STL00996	13C2 PFDA	93		50-150
STL00997	13C2 PFUnA	89		50-150
STL00998	13C2 PFDoA	78		50-150
STL02116	13C2 PFTeDA	60		50-150
STL02337	13C3 PFBS	89		50-150
STL00994	18O2 PFHxS	88		50-150
STL00991	13C4 PFOS	81		50-150
STL02118	d3-NMeFOSAA	70		50-150
STL02117	d5-NEtFOSAA	65		50-150
STL02279	M2-6:2 FTS	103		25-150
STL02280	M2-8:2 FTS	105		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
 Lims ID: 480-156213-F-13-A  
 Client ID: 356023-MW4  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 05:33:49 ALS Bottle#: 7 Worklist Smp#: 14  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-13-A  
 Misc. Info.: 200-0037095-014 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:14:41  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.508	2576064	34.5	69.0	8870	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.000	204928	4.32		27.3	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	2981626	42.5	85.1	4272	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	435640	7.55		13.2	M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	2854403	41.5	89.1	243211	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	65196	1.04	Target=1.90	12.7	
	298.90 > 99.00	2.093	2.093	0.0	1.000	28880		2.26(0.95-2.85)	9.1	
D 7 13C2 PFHxA	315.00 > 270.00	2.470	2.459	0.011	0.734	3069401	44.1	88.2	6780	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.000	249872	3.95	Target=13.23	22.1	M
	313.00 > 119.00	2.470	2.459	0.011	1.000	19870		12.58(6.61-19.84)	25.7	M
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.870	1671482	41.4	87.6	6272	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.874	3074124	45.1	90.1	6578	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.928	2.928	0.0	1.000	20853	0.4478	Target=3.37	6.8	M
	399.00 > 99.00	2.928	2.928	0.0	1.000	6959		3.00(1.69-5.06)	4.8	M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.939	2.928	0.011	1.000	79838	1.39	Target=3.76	8.0	M
	363.00 > 169.00	2.939	2.928	0.011	1.000	22170		3.60(1.88-5.65)	37.1	M



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.345	3.335	0.010	0.995	409019	48.7		103	369	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.345	3.336	0.009	1.000	8030	0.5437			19.4	
D 14 13C4 PFOA										
417.00 > 372.00	3.364	3.344	0.020	1.000	3228336	44.8		89.6	11023	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.364	3.355	0.009	1.000	280823	4.00	Target=2.84	22.8		M
413.00 > 169.00	3.364	3.355	0.009	1.000	120143		2.34(1.42-4.25)	188		M
* 62 13C2 PFOA										
415.00 > 370.00	3.364	3.355	0.009		3960360	50.0			11531	
D 18 13C4 PFOS										
503.00 > 80.00	3.713	3.695	0.018	1.104	1296911	38.6		80.7	2236	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.594	3.703	-0.109	0.968	34219	1.33	Target=4.33	36.7		RM
499.00 > 99.00	3.612	3.703	-0.091	0.973	4352		7.86(2.16-6.49)	3.6		RM
D 19 13C5 PFNA										
468.00 > 423.00	3.734	3.715	0.019	1.110	2963491	45.1		90.2	9954	
20 Perfluorononanoic acid										
463.00 > 419.00	3.734	3.723	0.011	1.000	13912	0.2591	Target=8.15	3.7		M
463.00 > 169.00	3.734	3.723	0.011	1.000	2526		5.51(4.08-12.23)	14.8		M
D 23 13C2 PFDA										
515.00 > 470.00	4.047	4.036	0.011	1.203	2441964	46.5		92.9	12627	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.059	4.036	0.023	1.207	389207	50.3		105	575	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.059	4.047	0.012	1.000	266	0.0245			3.9	M
D 21 13C8 FOSA										
506.00 > 78.00	4.084	4.061	0.023	1.214	2378570	39.4		78.8	5309	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.084	4.072	0.012	1.000	1802	0.0415			10.2	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.178	0.009	1.245	236593	35.2		70.5	1825	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.198	4.187	0.011	1.003	192	0.0536			1.3	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.284	2120172	44.3		88.6	13269	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.307	0.012	1.000	4085	0.1123	Target=7.95	1.9		M
563.00 > 169.00	4.307	4.307	-0.001	0.997	555		7.36(3.98-11.93)	6.1		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.308	0.011	1.284	245018	32.7		65.5	894	
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.537	0.012	1.352	2013990	39.1		78.2	5277	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.549	4.549	0.0	1.000	2033	0.0494	Target=7.49	0.3		M
613.00 > 169.00	4.549	4.549	0.0	1.000	273		7.45(3.75-11.24)	3.4		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.769	4.760	0.009	1.048	2154	0.0583	Target=5.71	0.3		
663.00 > 169.00	4.778	4.760	0.018	1.050	370		5.82(2.85-8.56)	3.0		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.965	0.013	1.480	2136295	30.1		60.2	8262	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.972	4.972	0.0	0.999	654	0.1150	Target=1.02	8.1		M
713.00 > 219.00	4.978	4.972	0.006	1.000	663		0.99(0.51-1.54)	8.4		M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d

Injection Date: 02-Aug-2019 05:33:49

Instrument ID: LC812

Lims ID: 480-156213-F-13-A

Lab Sample ID: 200-156213-13

Client ID: 356023-MW4

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 14

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

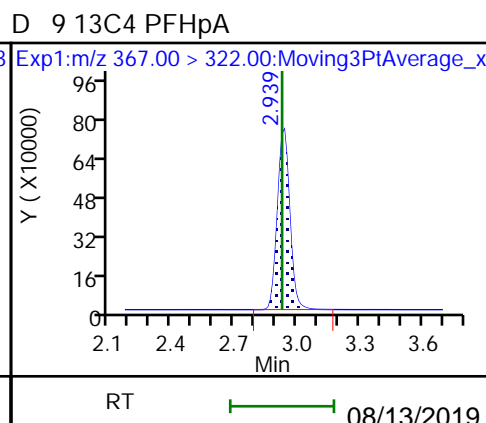
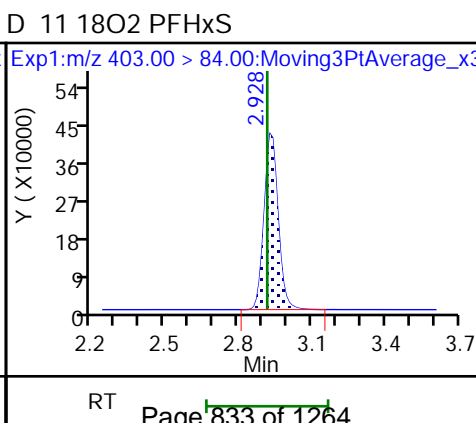
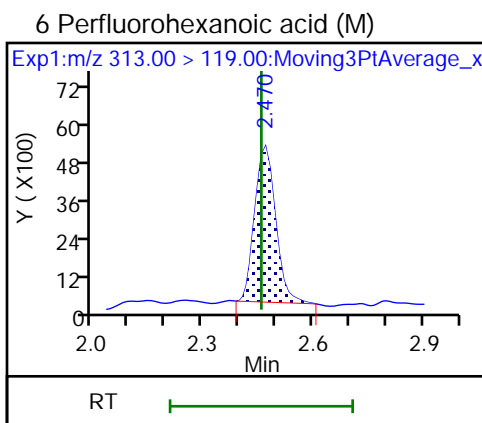
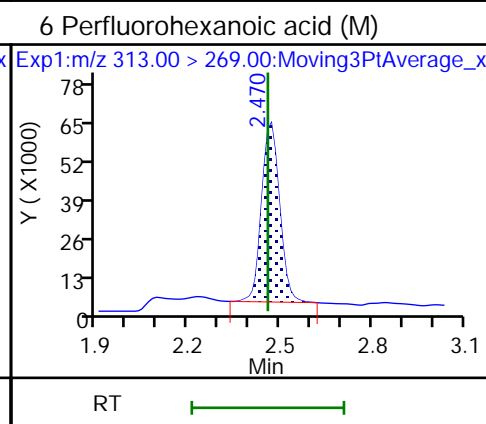
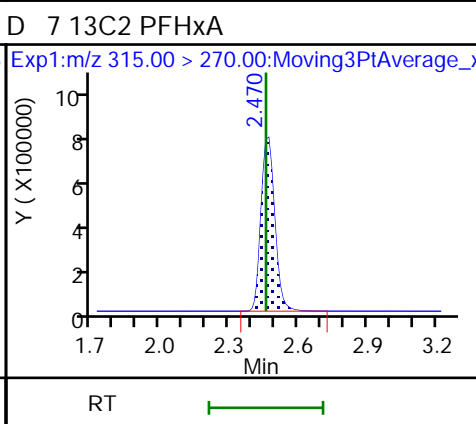
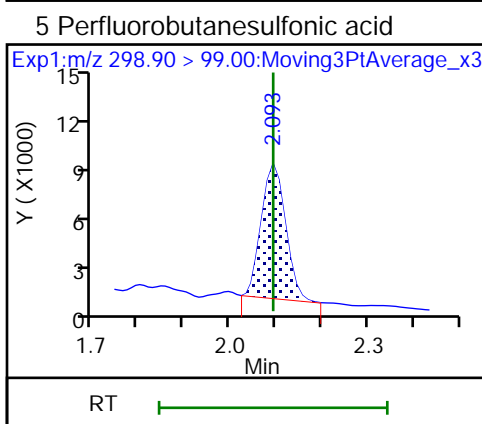
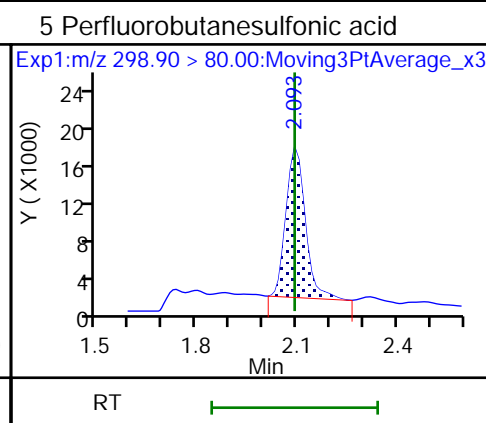
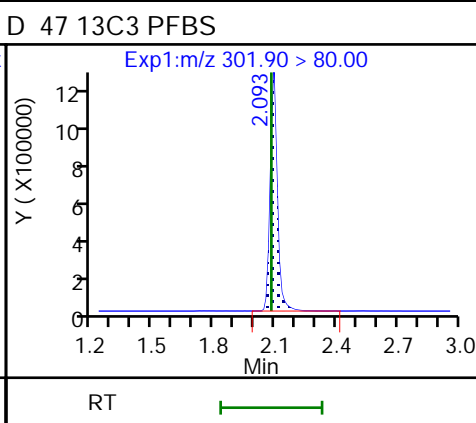
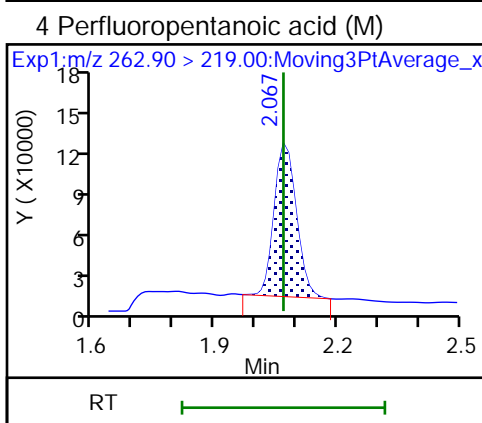
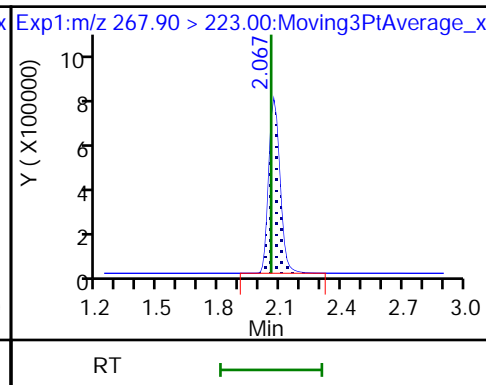
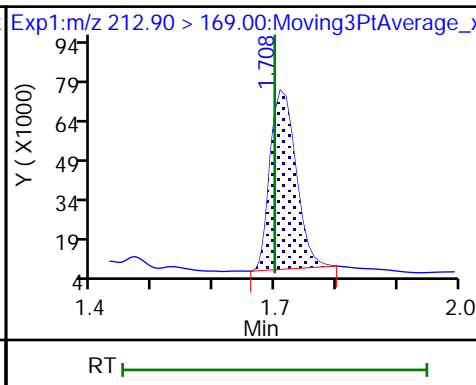
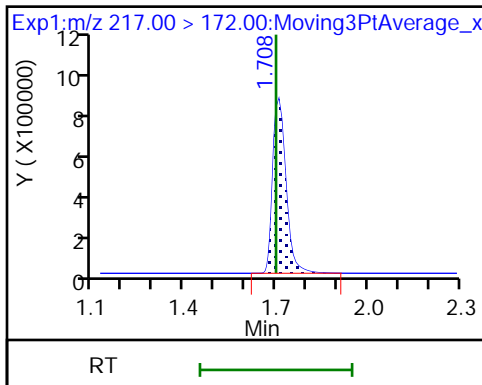
Method: PFC\_LC812

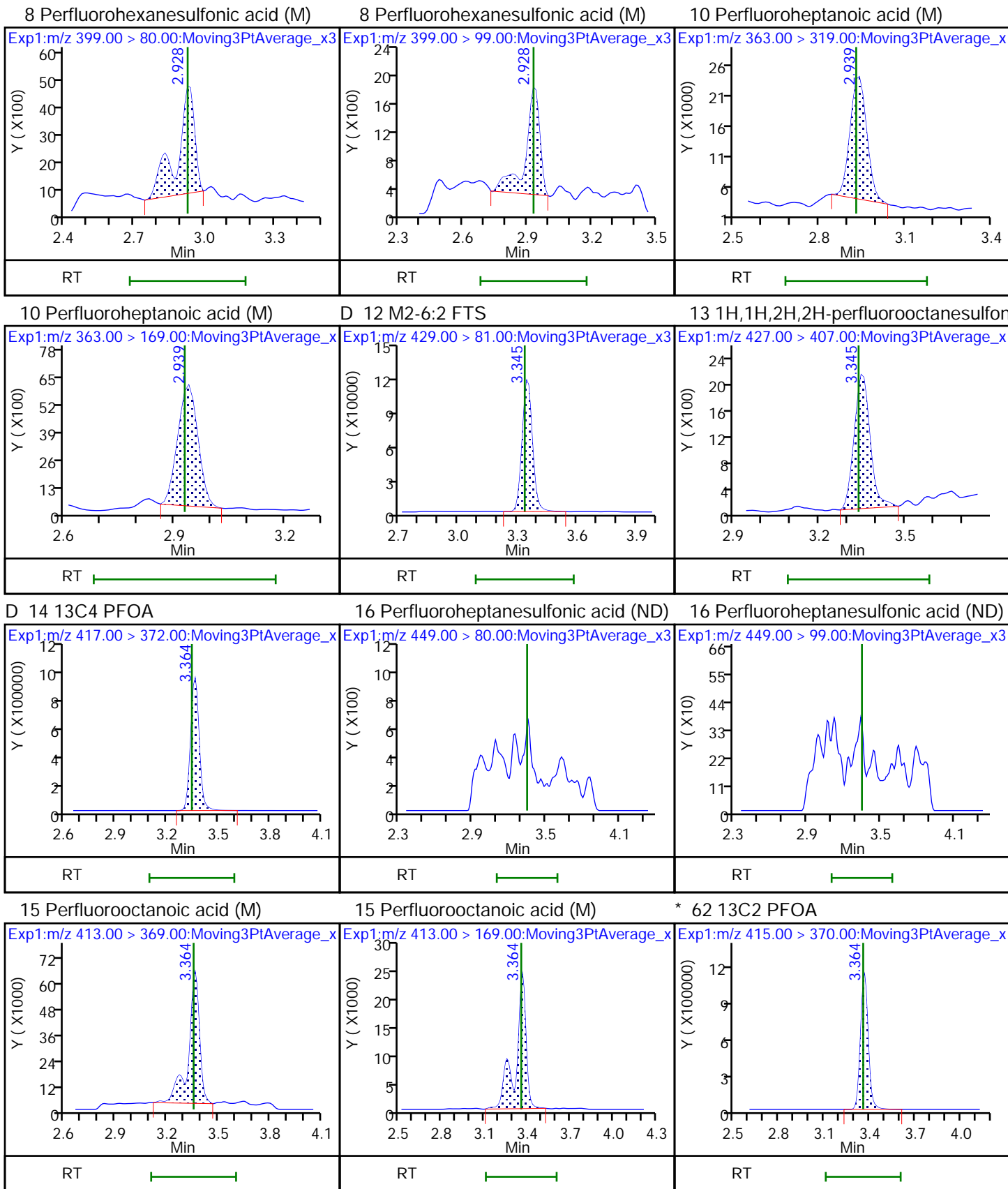
Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

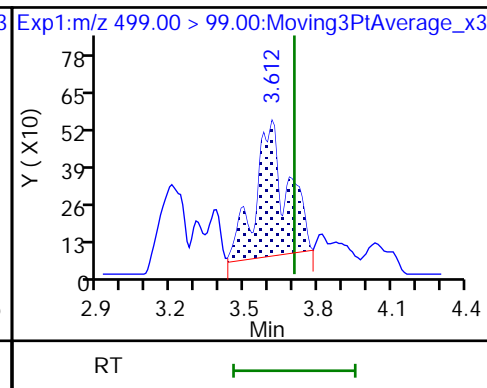
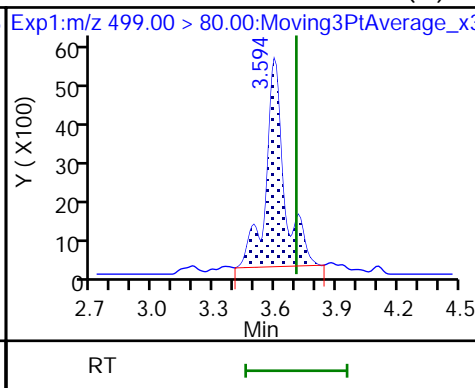
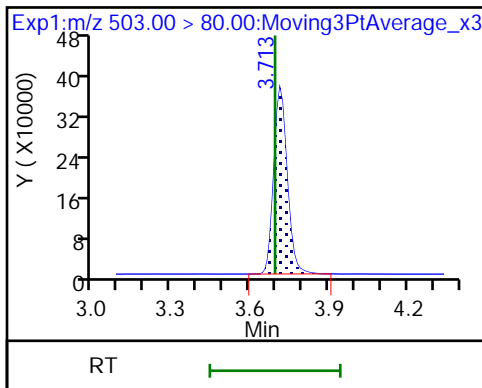




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

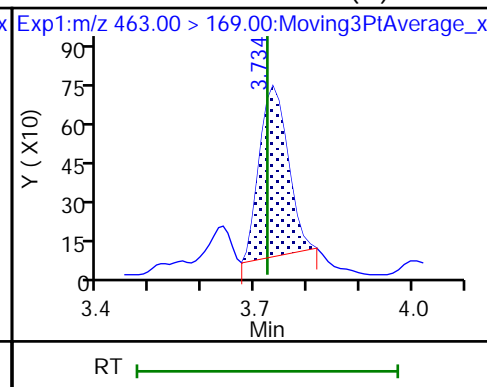
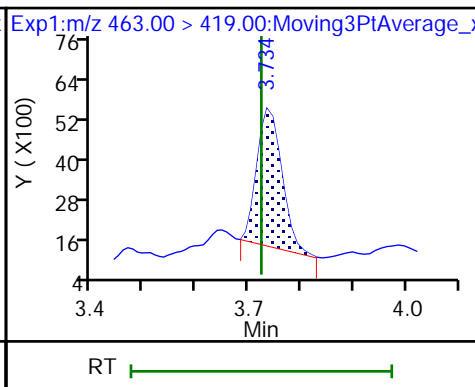
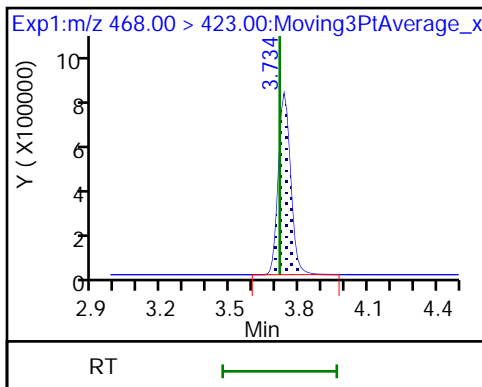
17 Perfluorooctanesulfonic acid



D 19 13C5 PFNA

20 Perfluorononanoic acid

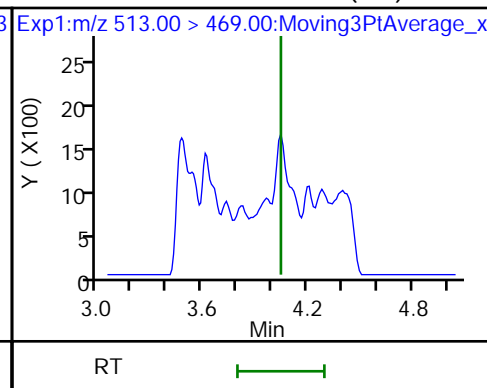
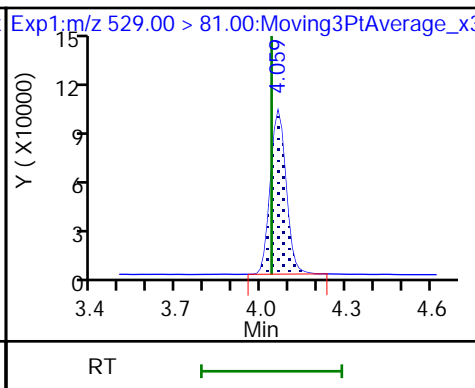
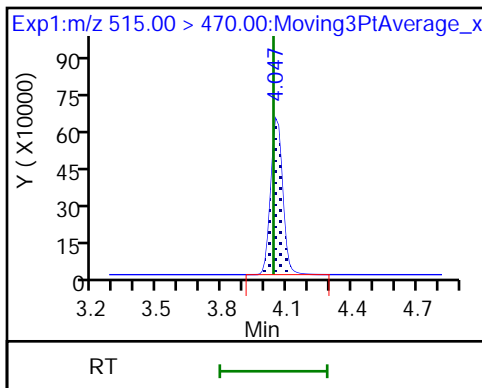
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

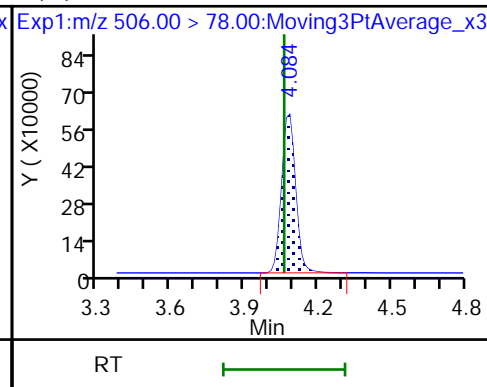
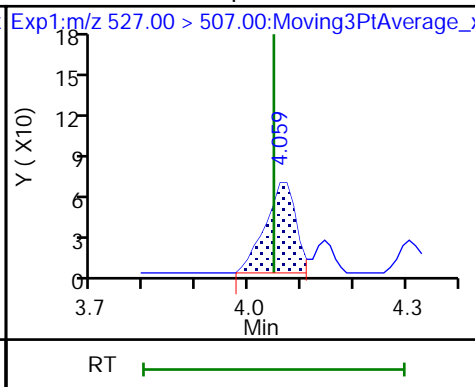
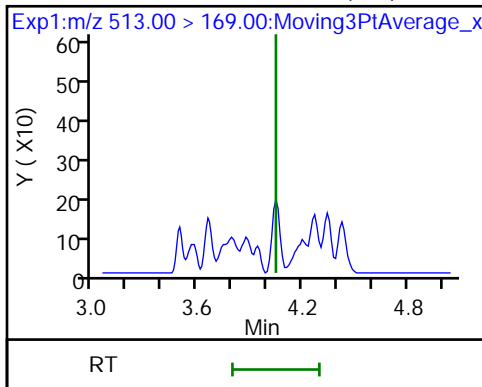
24 Perfluorodecanoic acid (ND)



24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonate (M)

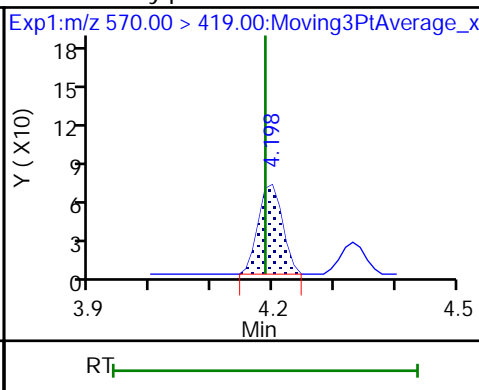
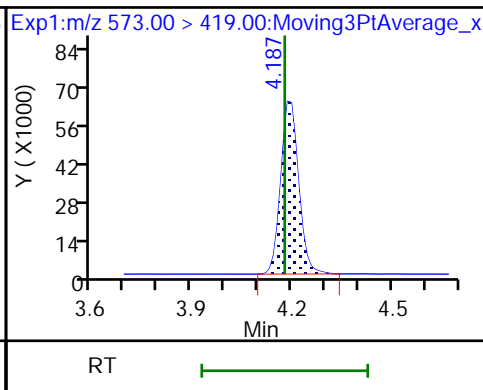
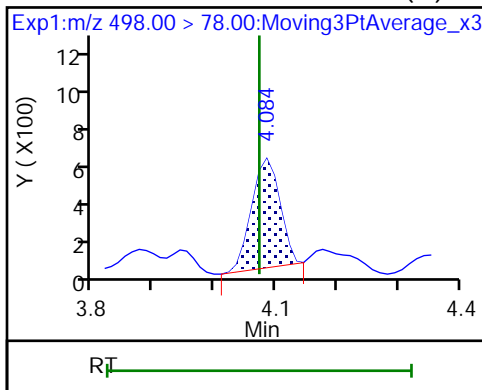
D 27 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

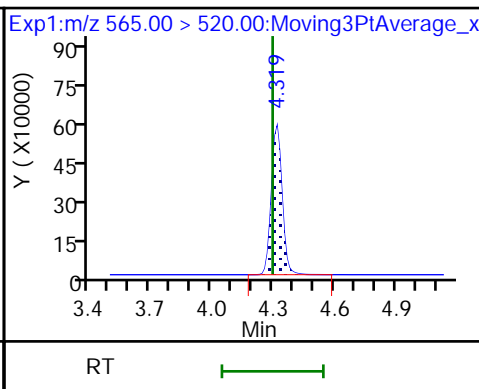
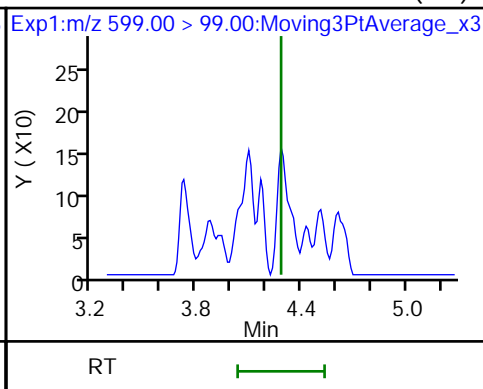
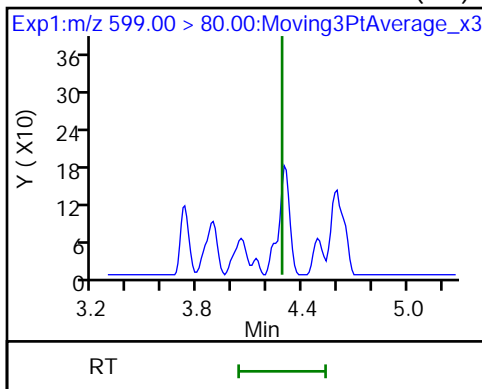
28 N-methylperfluorooctanesulfonamido (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

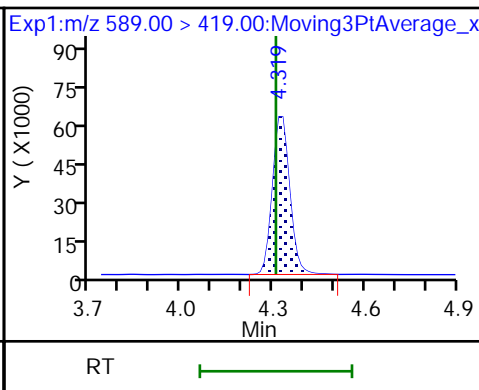
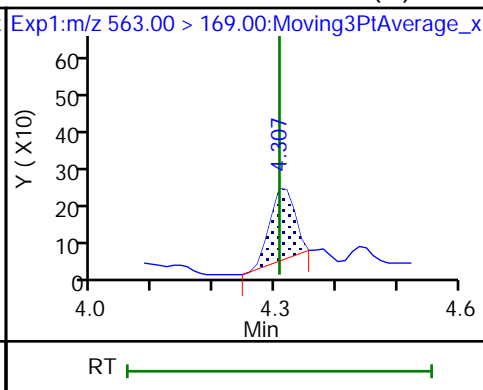
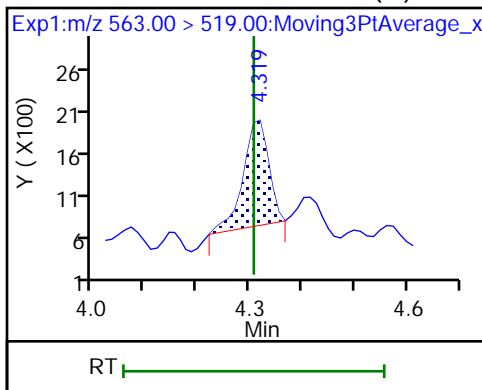
D 30 13C2 PFUa



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

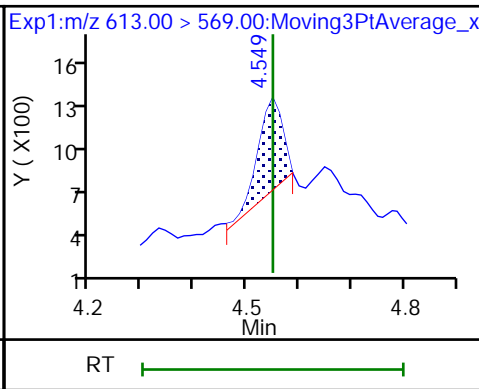
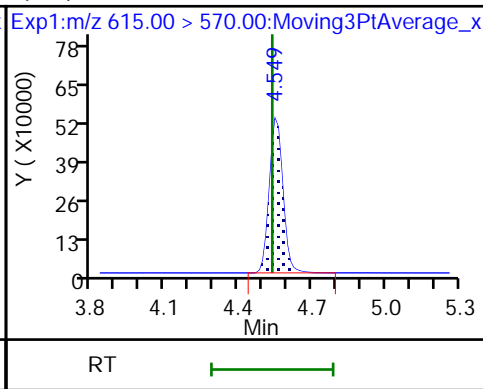
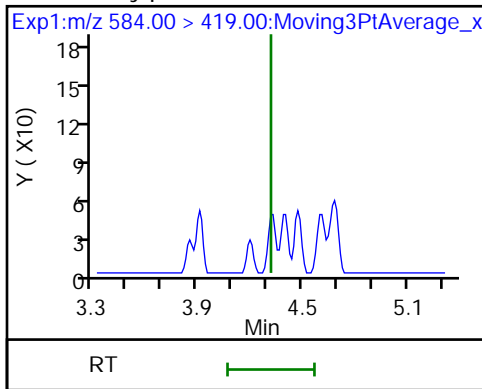
D 32 d5-NEtFOSAA

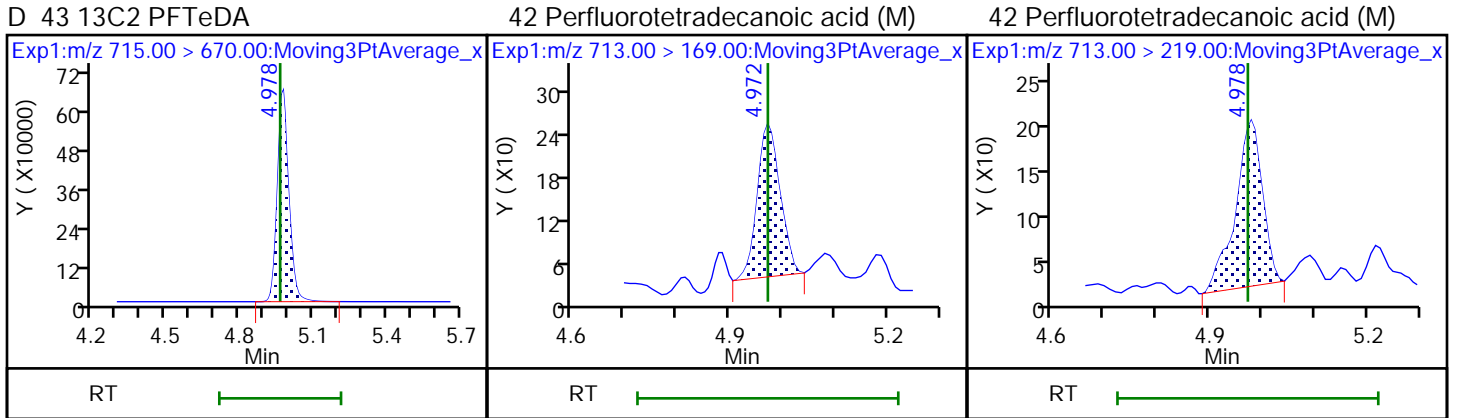
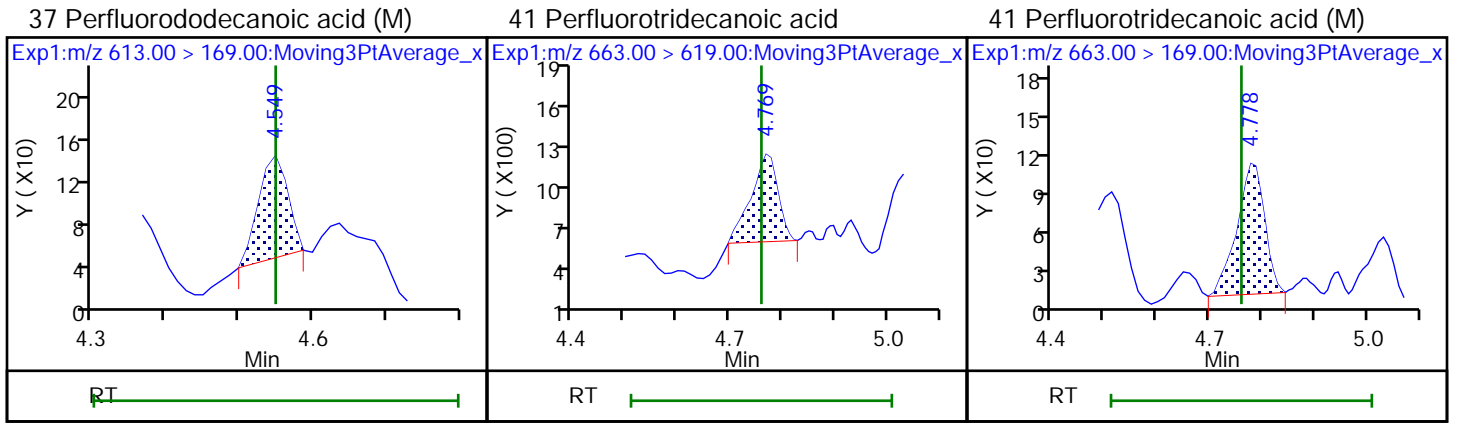


33 N-ethylperfluorooctanesulfonamido (M)

D 33 13C2 PFDoA

37 Perfluorododecanoic acid





Eurofins TestAmerica, Burlington

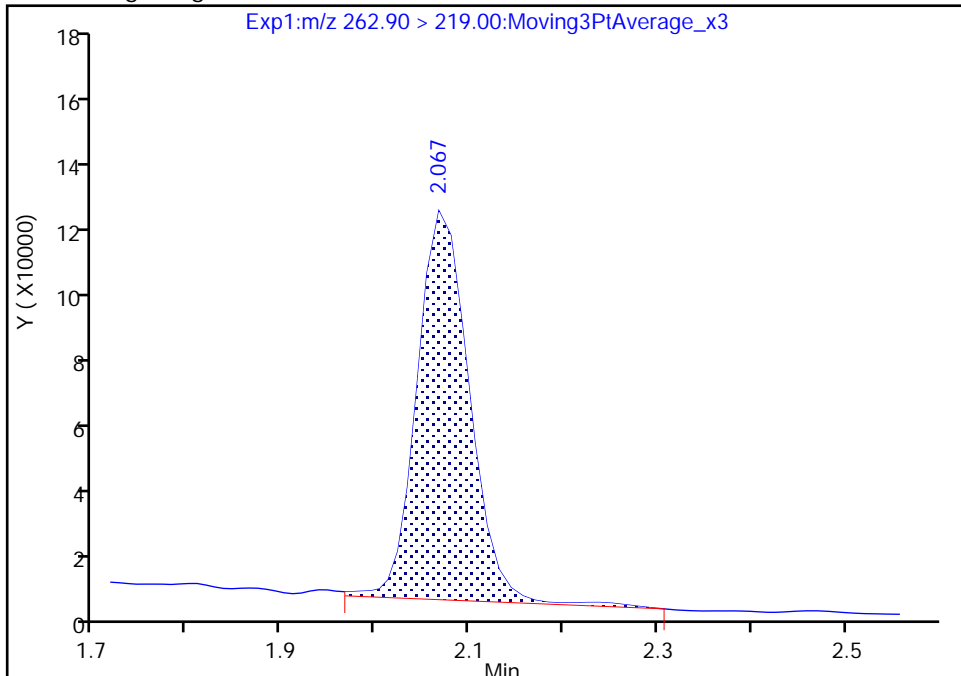
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

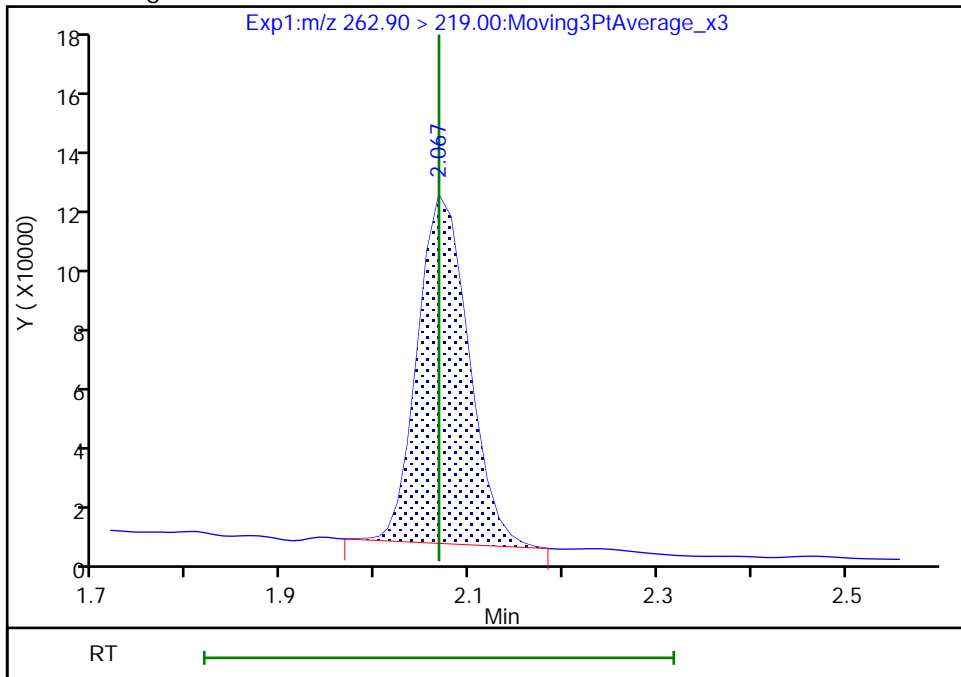
RT: 2.07  
Area: 452018  
Amount: 7.833348  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 435640  
Amount: 7.549522  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:10:57  
Audit Action: Manually Integrated

Audit Reason: Baseline



Euofins TestAmerica, Burlington

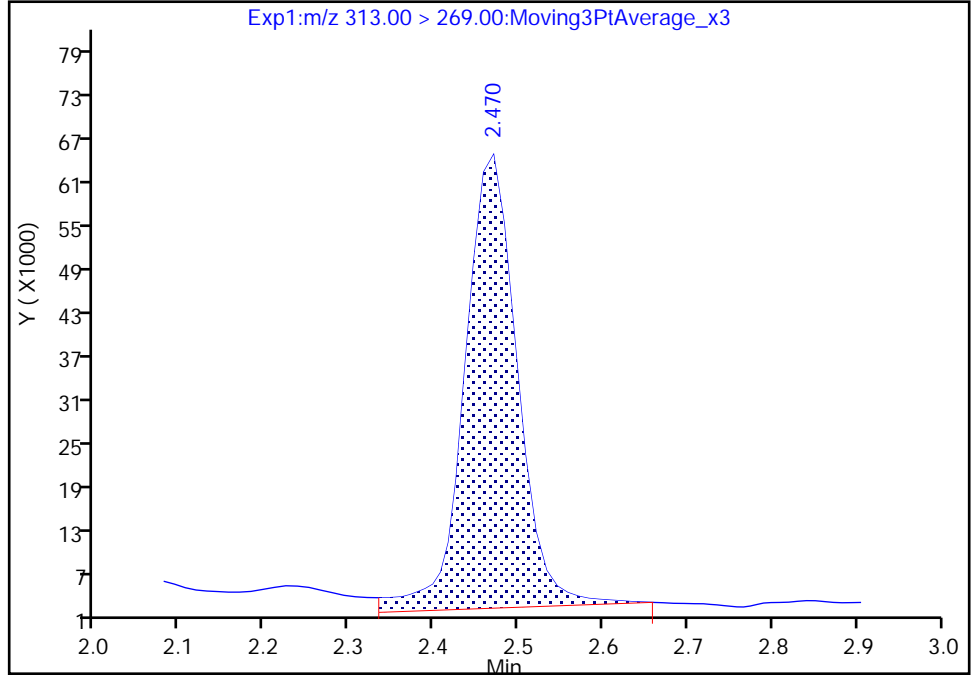
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

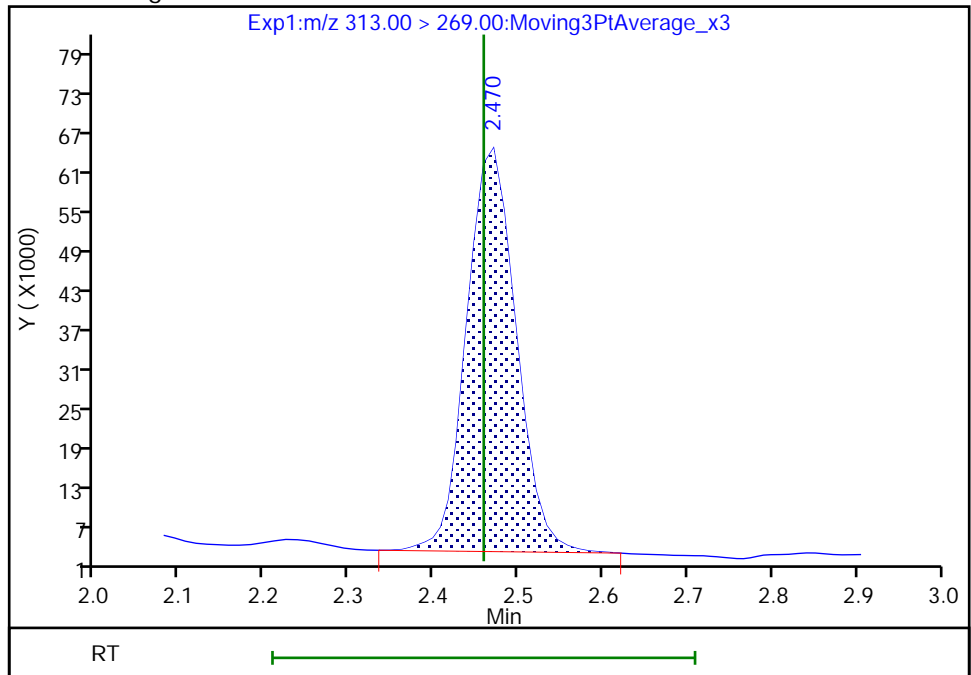
RT: 2.47  
Area: 270811  
Amount: 4.283891  
Amount Units: ng/ml

Processing Integration Results



RT: 2.47  
Area: 249872  
Amount: 3.952663  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:11:10  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

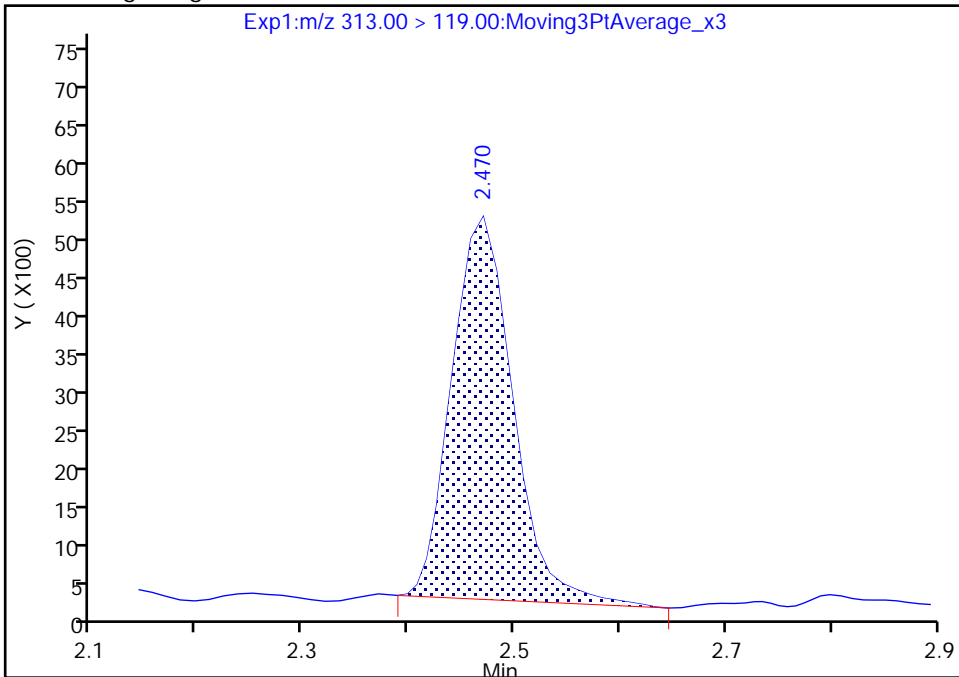
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

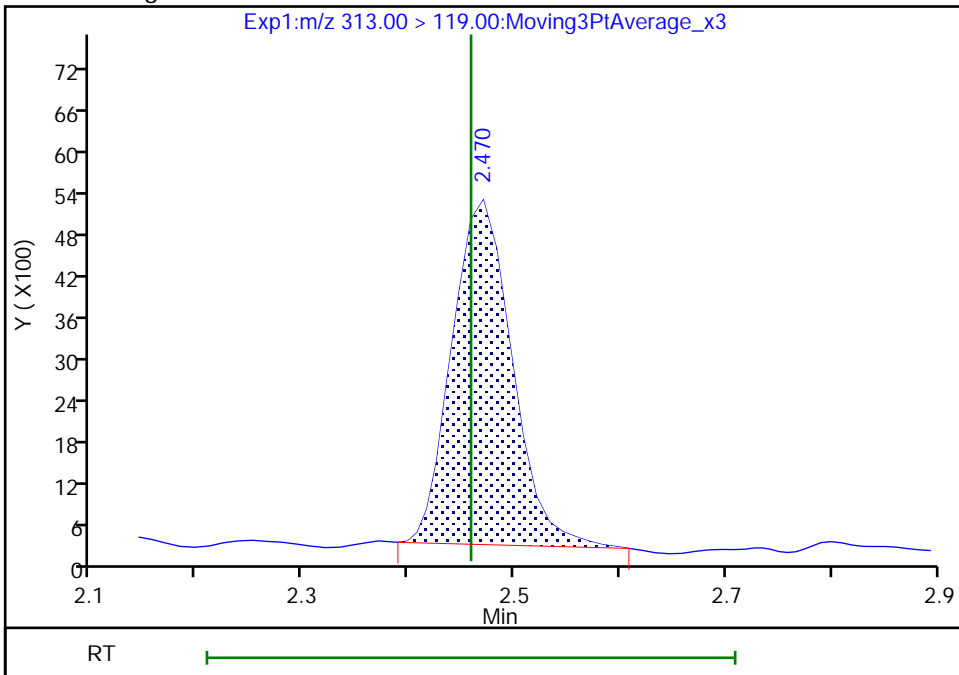
RT: 2.47  
Area: 20264  
Amount: 4.283891  
Amount Units: ng/ml

Processing Integration Results



RT: 2.47  
Area: 19870  
Amount: 3.952663  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:11:13

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

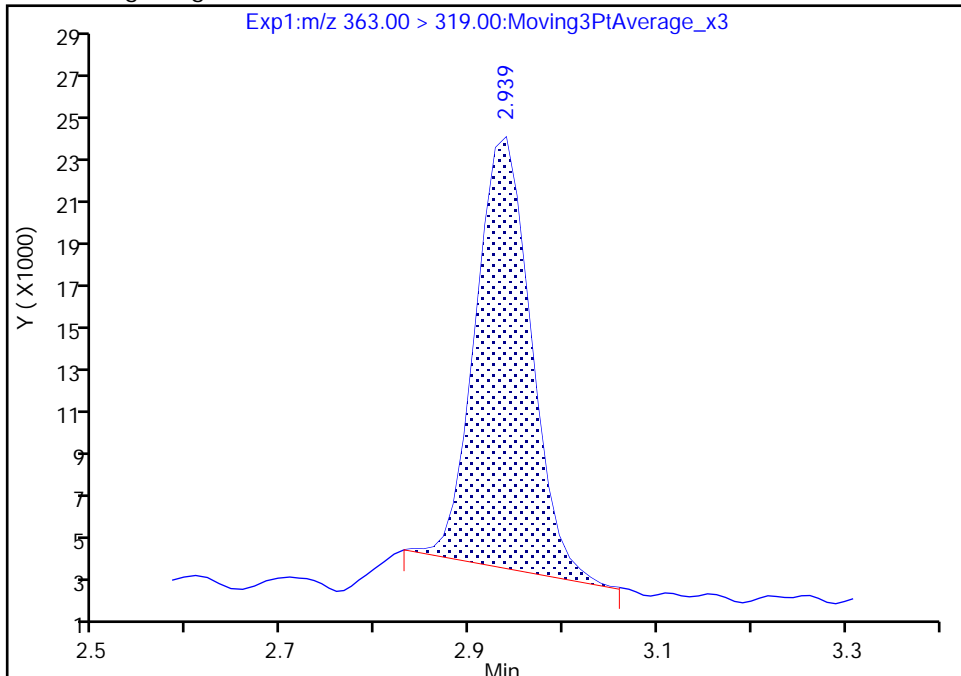
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

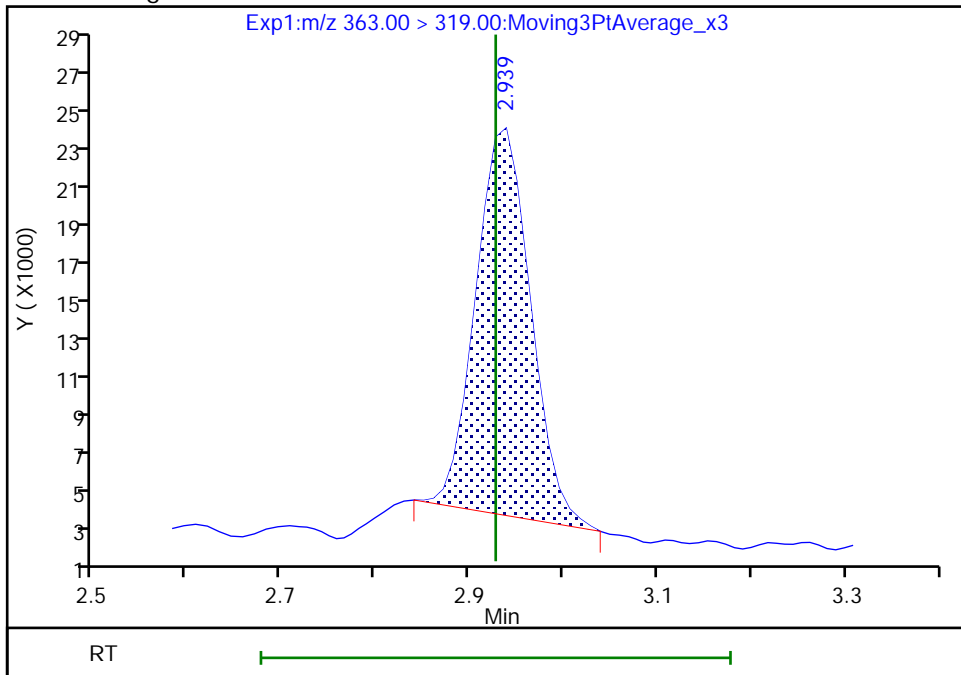
RT: 2.94  
Area: 81468  
Amount: 1.414678  
Amount Units: ng/ml

Processing Integration Results



RT: 2.94  
Area: 79838  
Amount: 1.386373  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:11:49  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

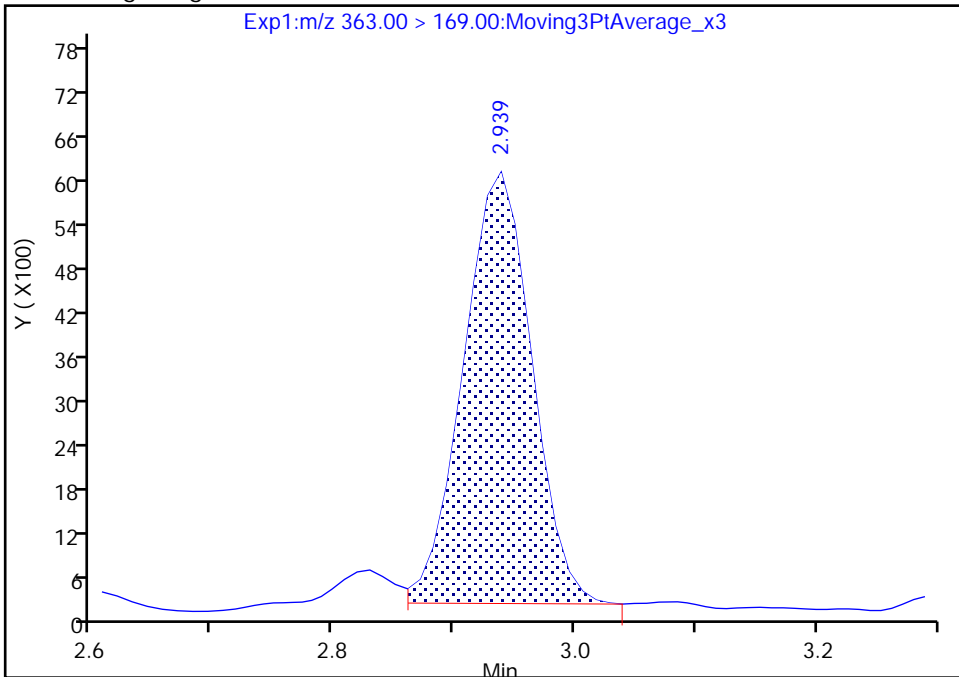
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

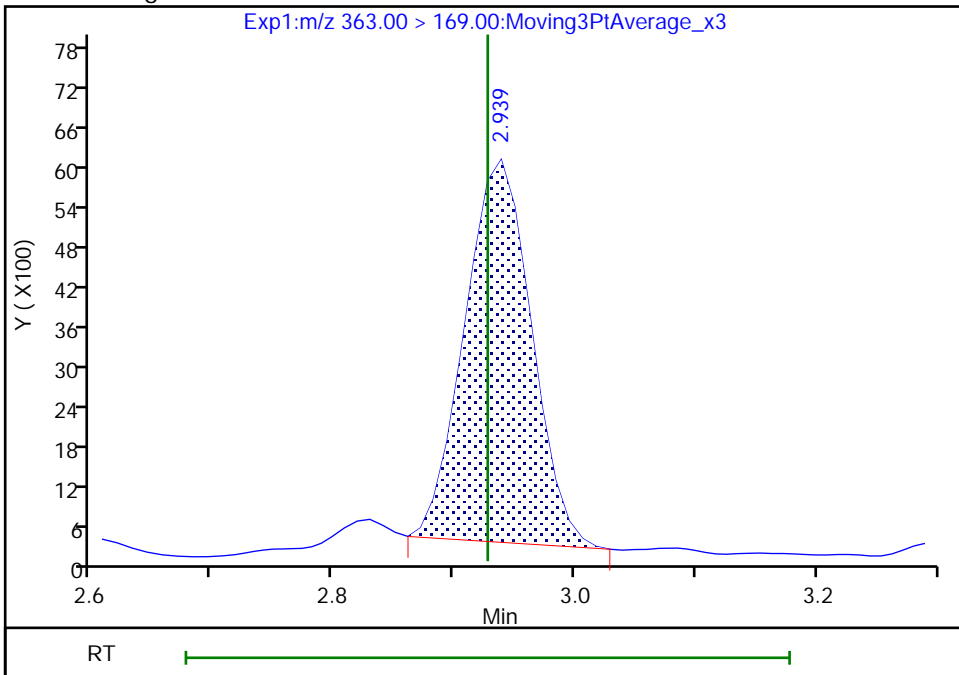
RT: 2.94  
Area: 23208  
Amount: 1.414678  
Amount Units: ng/ml

Processing Integration Results



RT: 2.94  
Area: 22170  
Amount: 1.386373  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

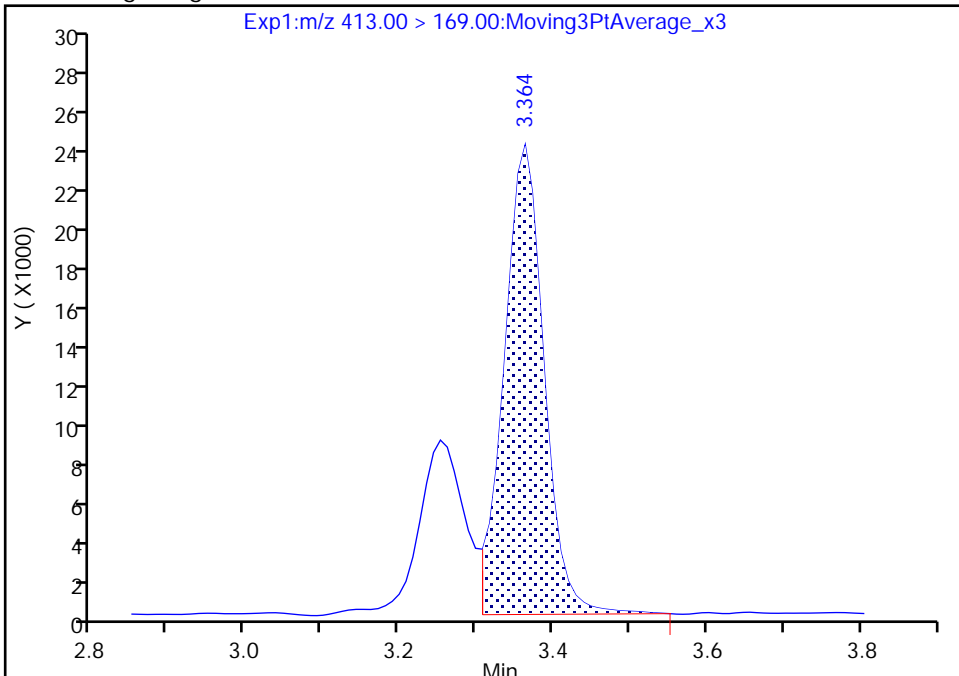
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

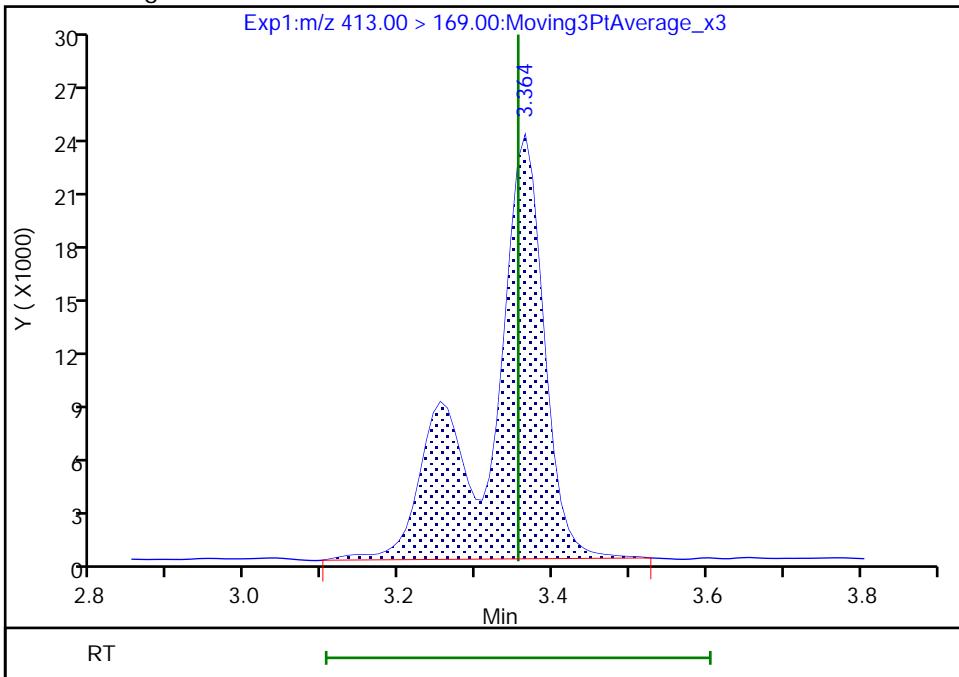
RT: 3.36  
Area: 84391  
Amount: 4.292411  
Amount Units: ng/ml

Processing Integration Results



RT: 3.36  
Area: 120143  
Amount: 3.997094  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:12:12  
Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

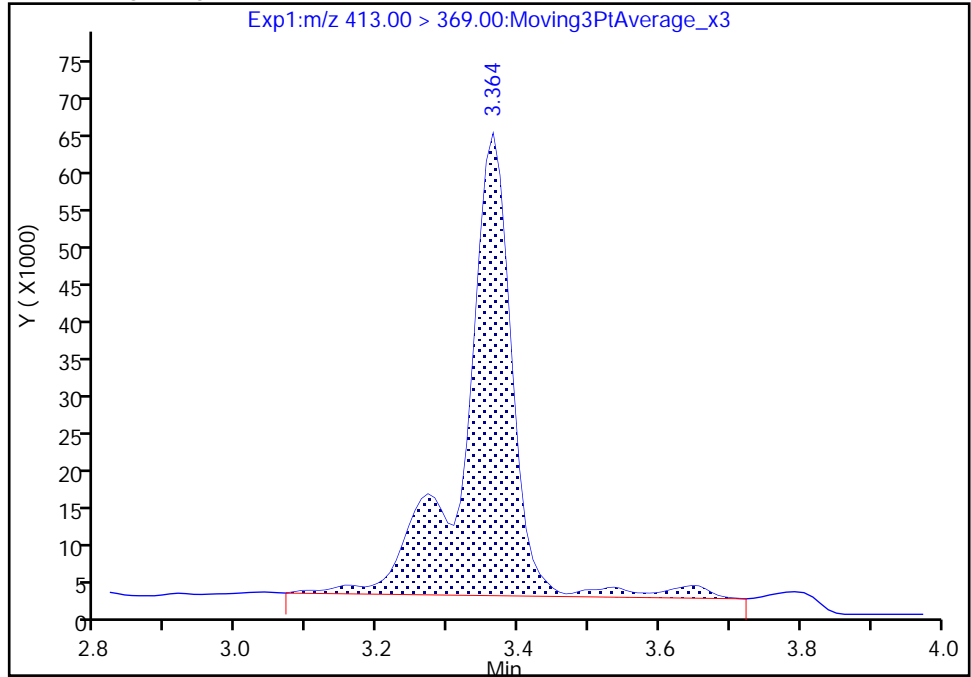
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

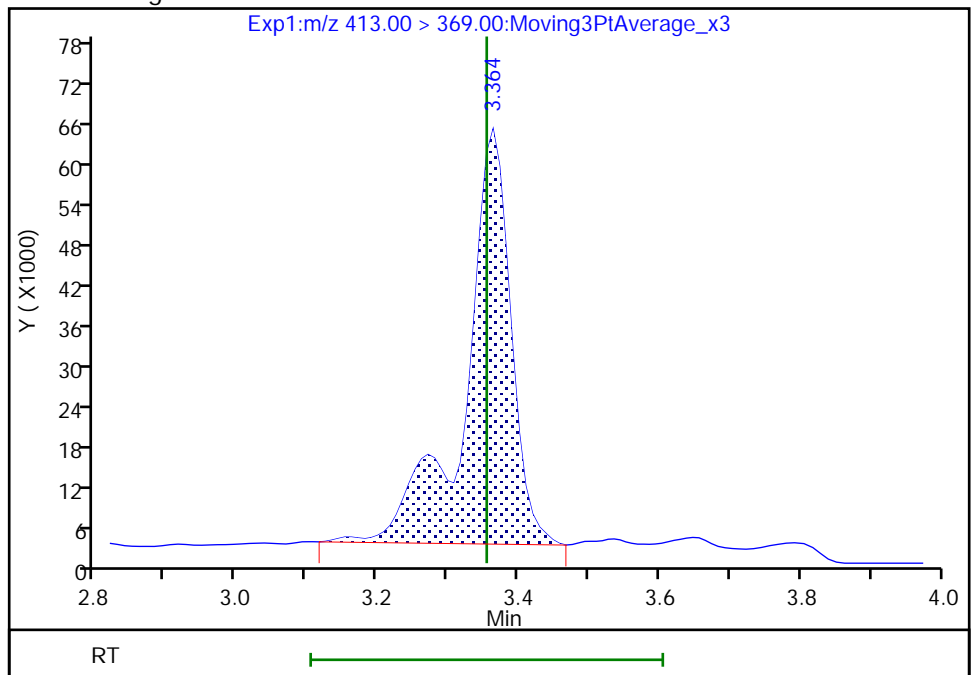
RT: 3.36  
Area: 301571  
Amount: 4.292411  
Amount Units: ng/ml

Processing Integration Results



RT: 3.36  
Area: 280823  
Amount: 3.997094  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:12:16

Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

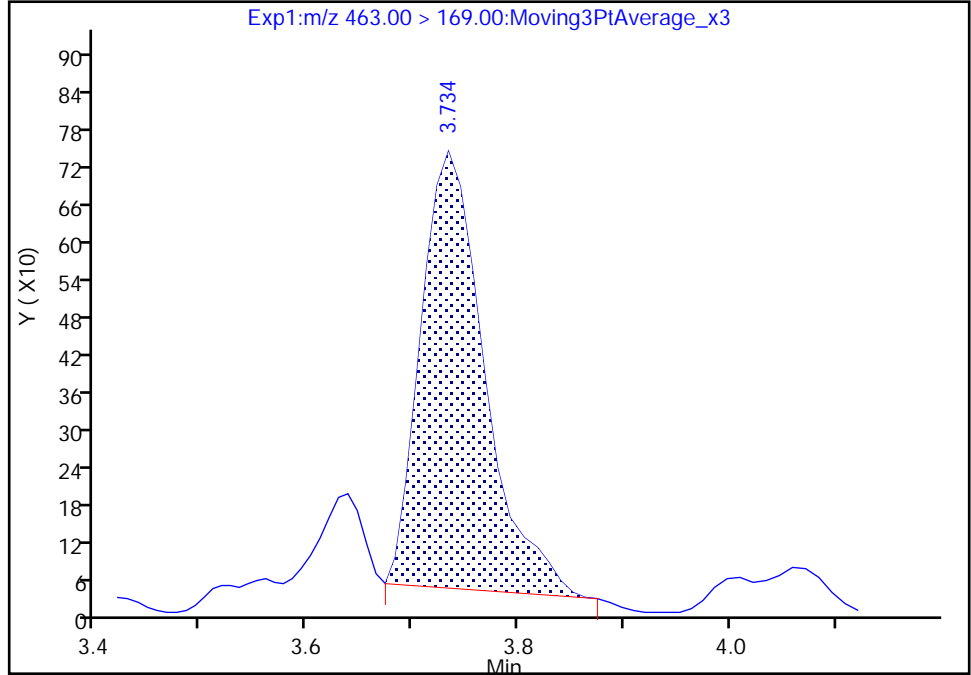
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

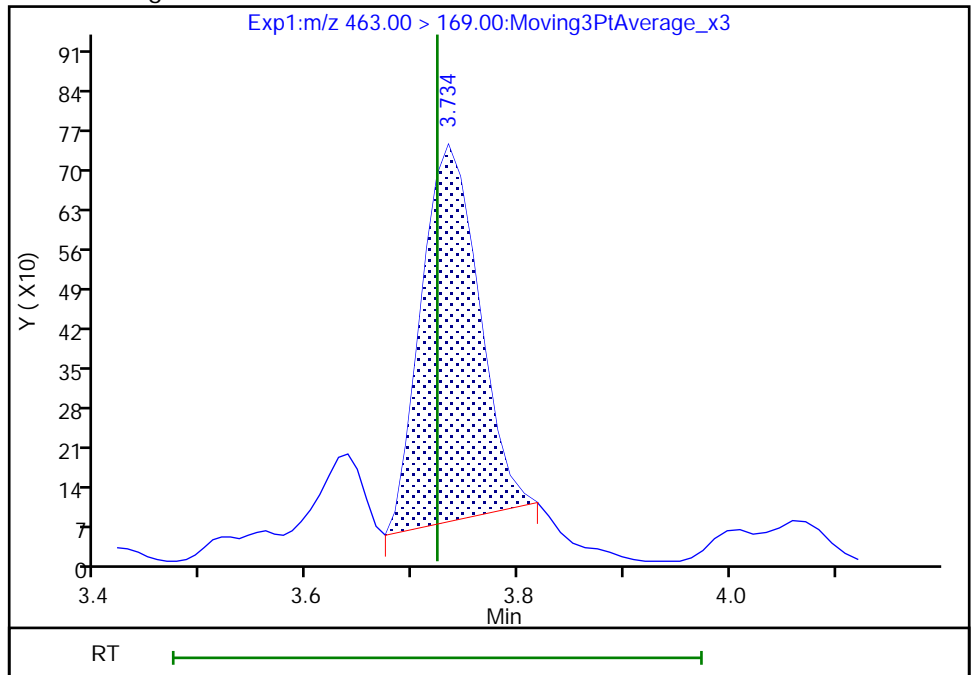
RT: 3.73  
Area: 2932  
Amount: 0.259105  
Amount Units: ng/ml

Processing Integration Results



RT: 3.73  
Area: 2526  
Amount: 0.259105  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:12:41  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

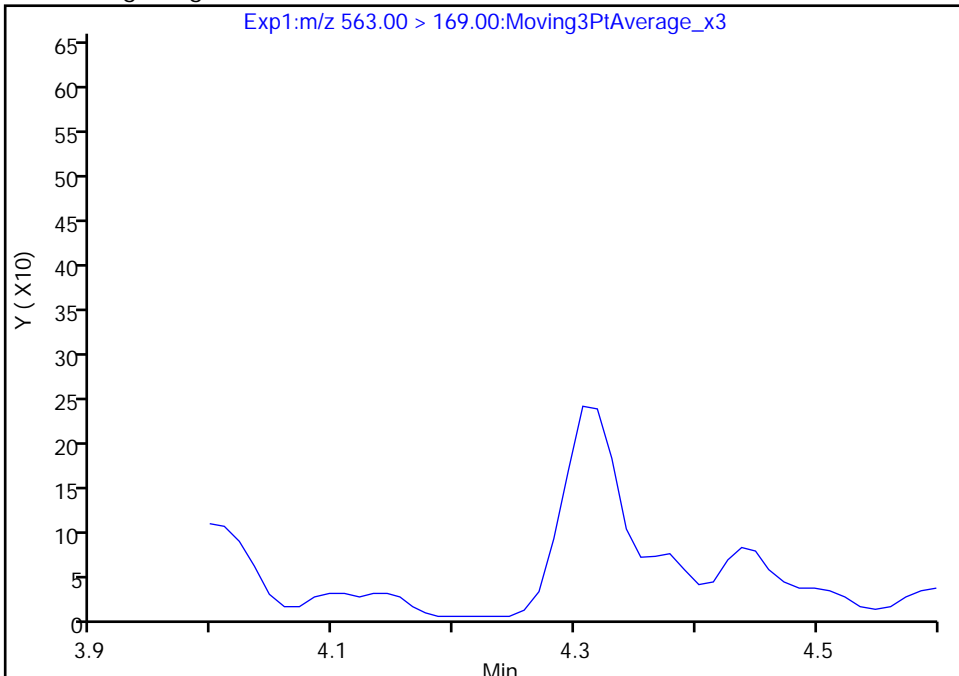
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

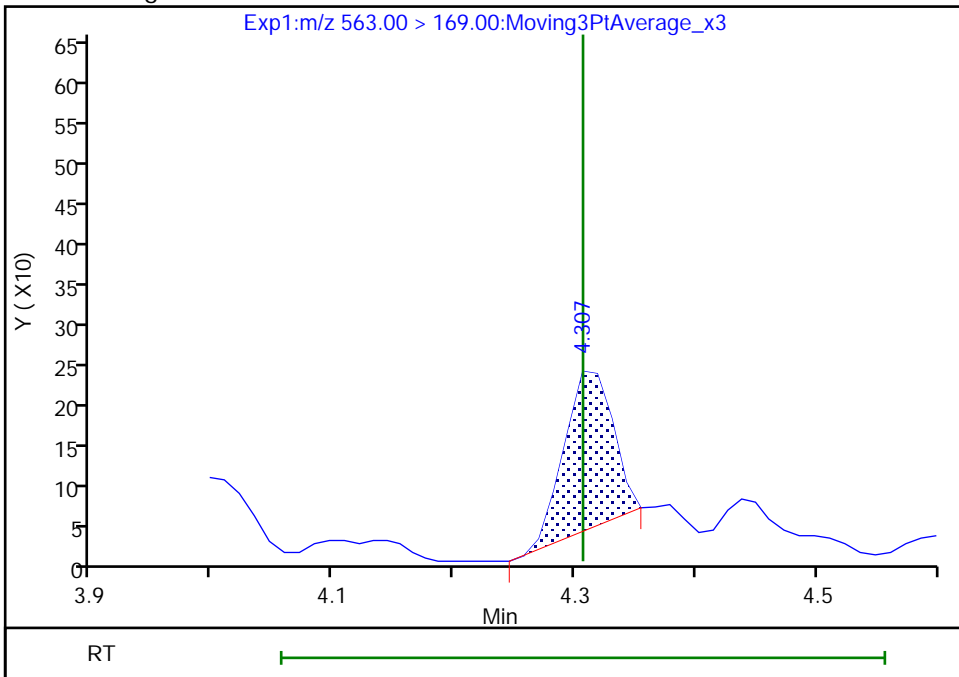
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 555  
Amount: 0.112273  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:13:49  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Euofins TestAmerica, Burlington

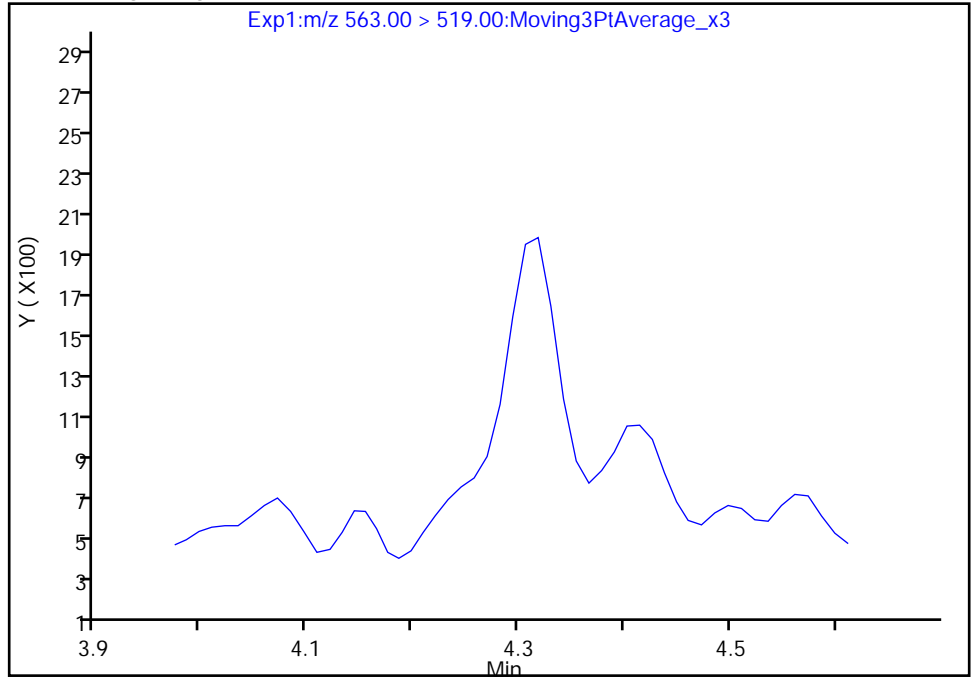
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

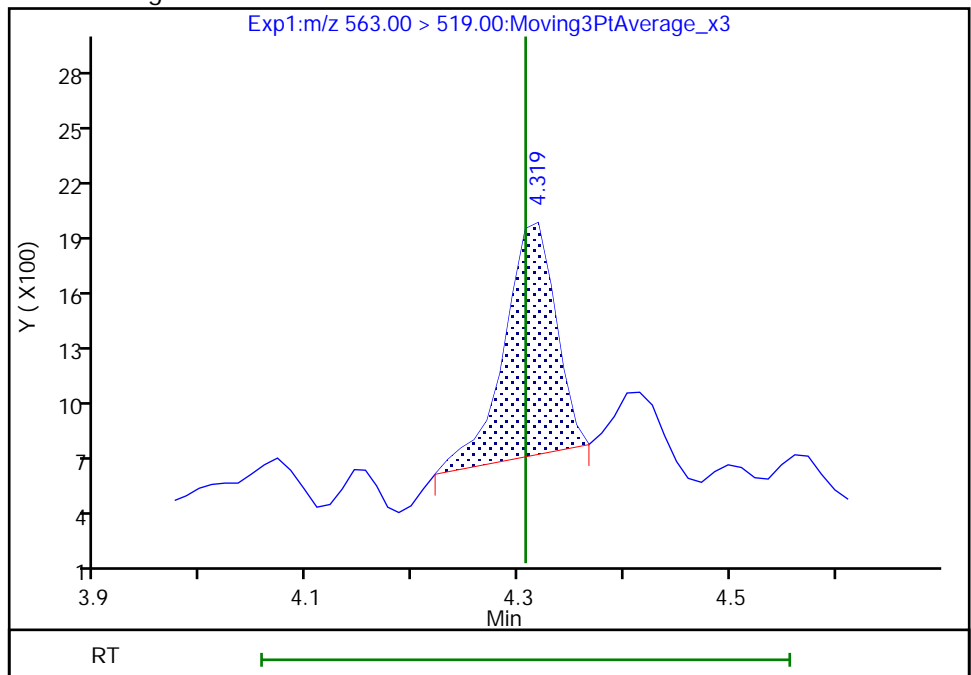
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 4085  
Amount: 0.112273  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

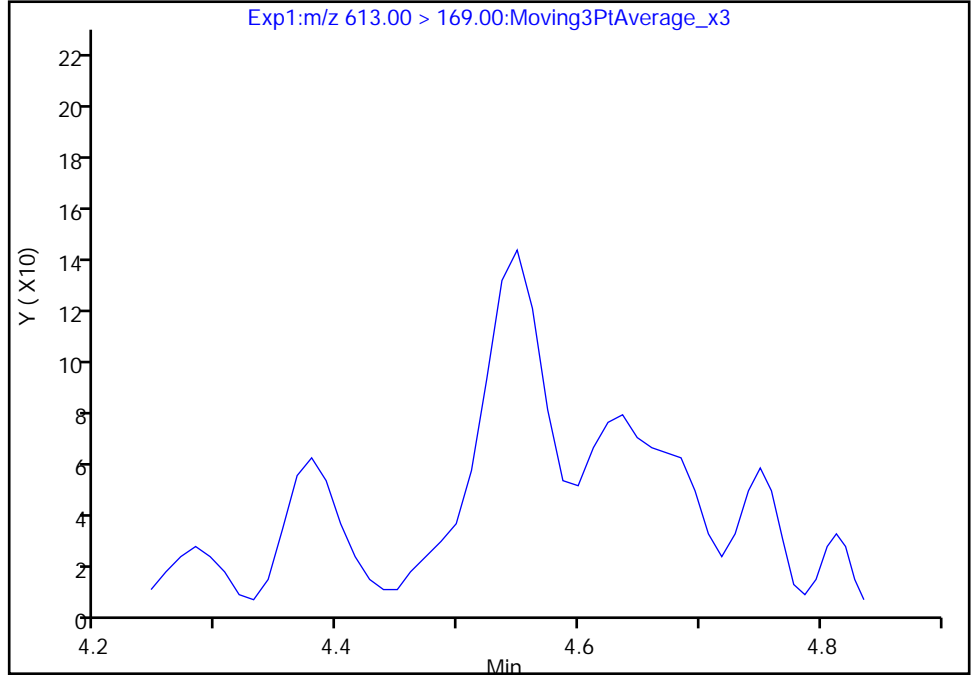
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

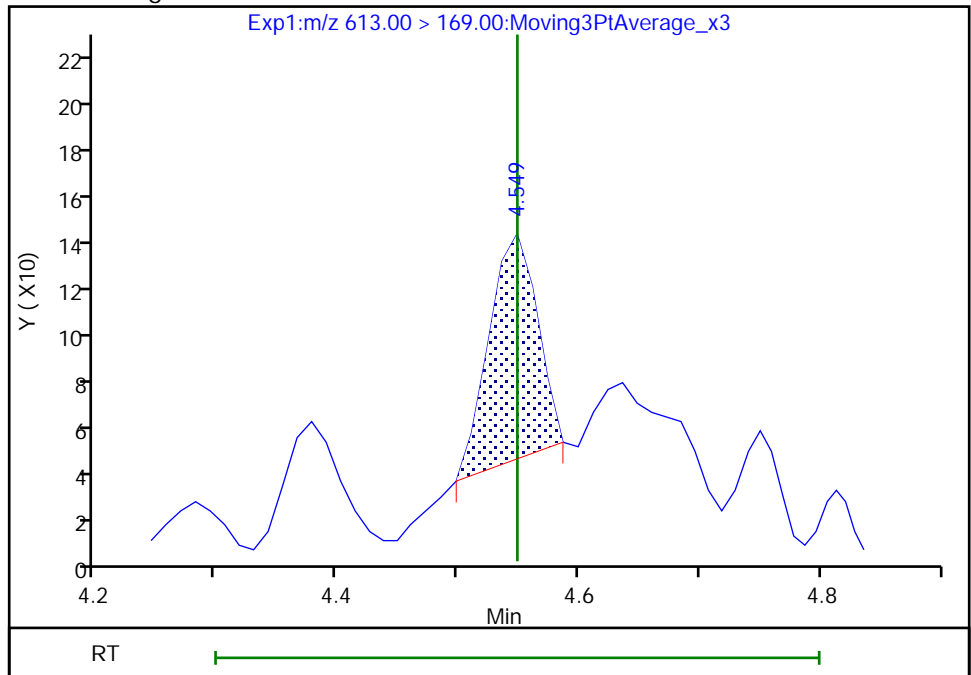
Not Detected  
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55  
Area: 273  
Amount: 0.049368  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:14:02  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

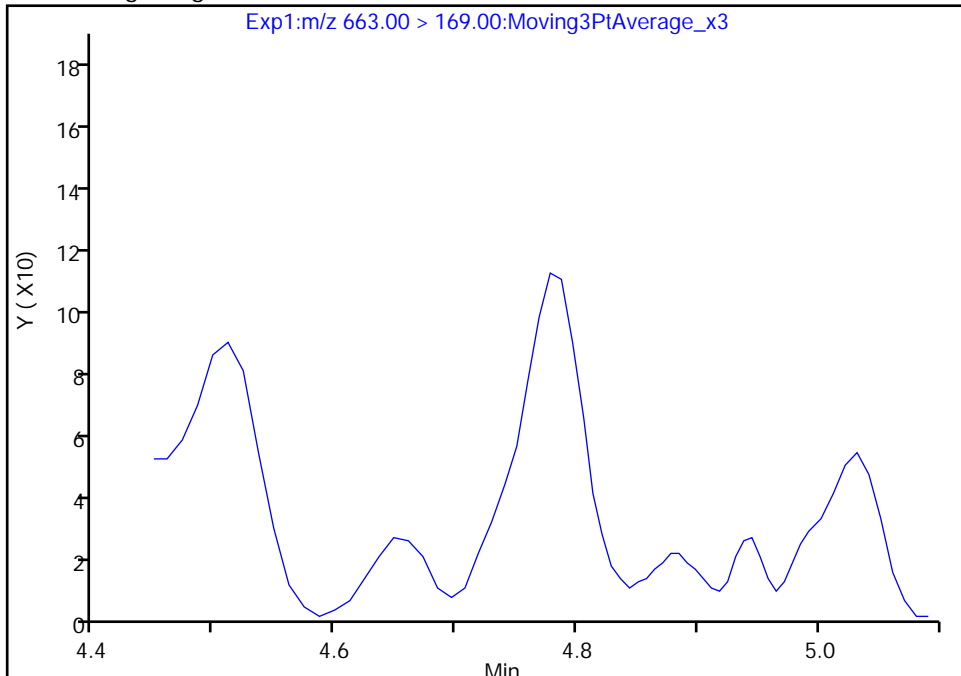
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

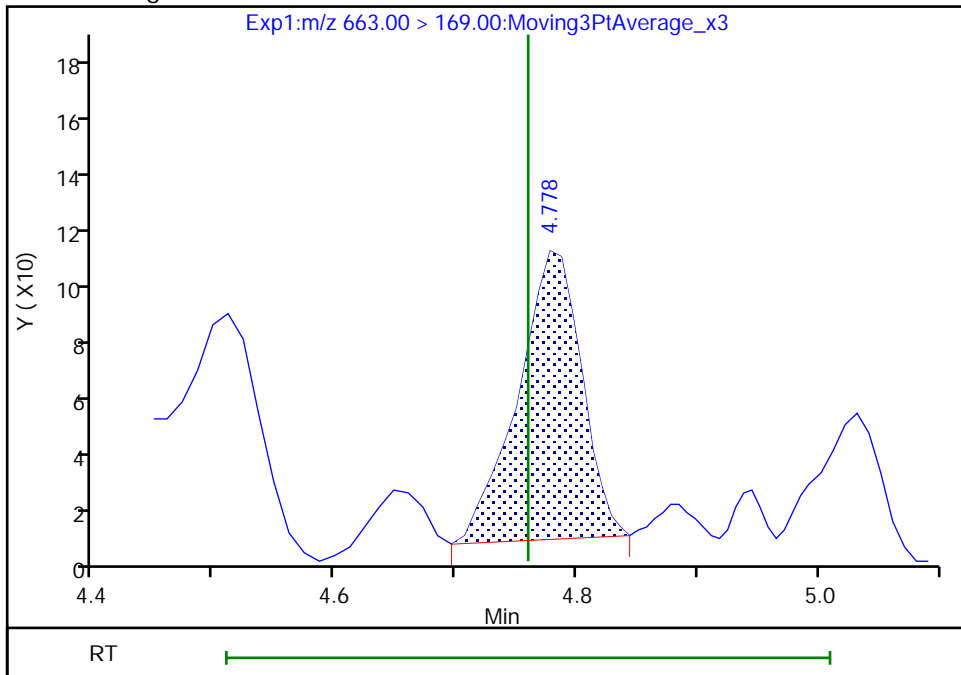
Not Detected  
Expected RT: 4.76

Processing Integration Results



Manual Integration Results

RT: 4.78  
Area: 370  
Amount: 0.058278  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:14:13  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

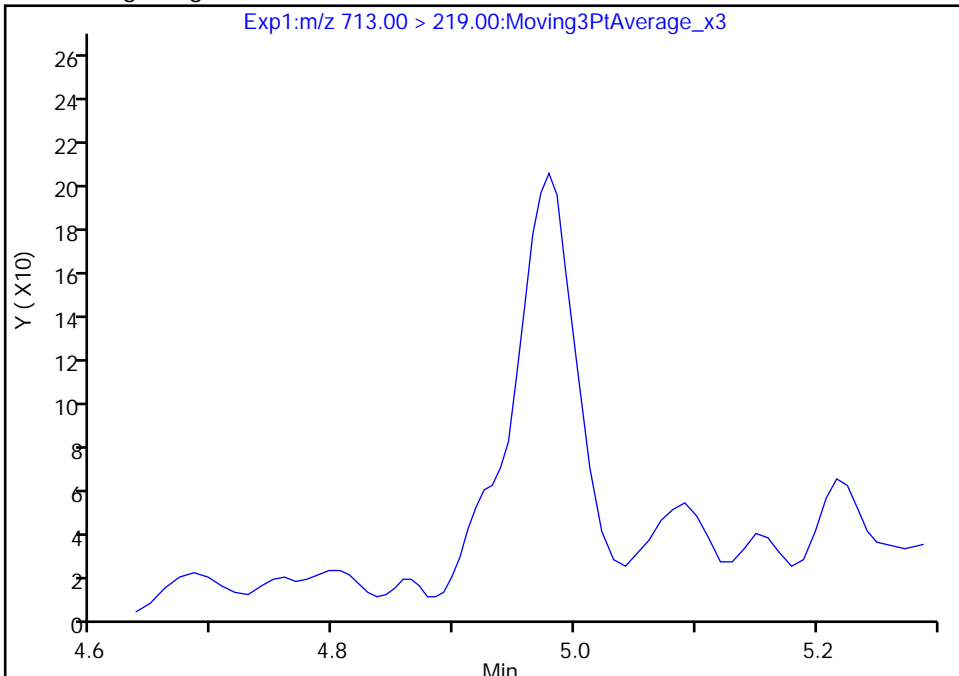
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

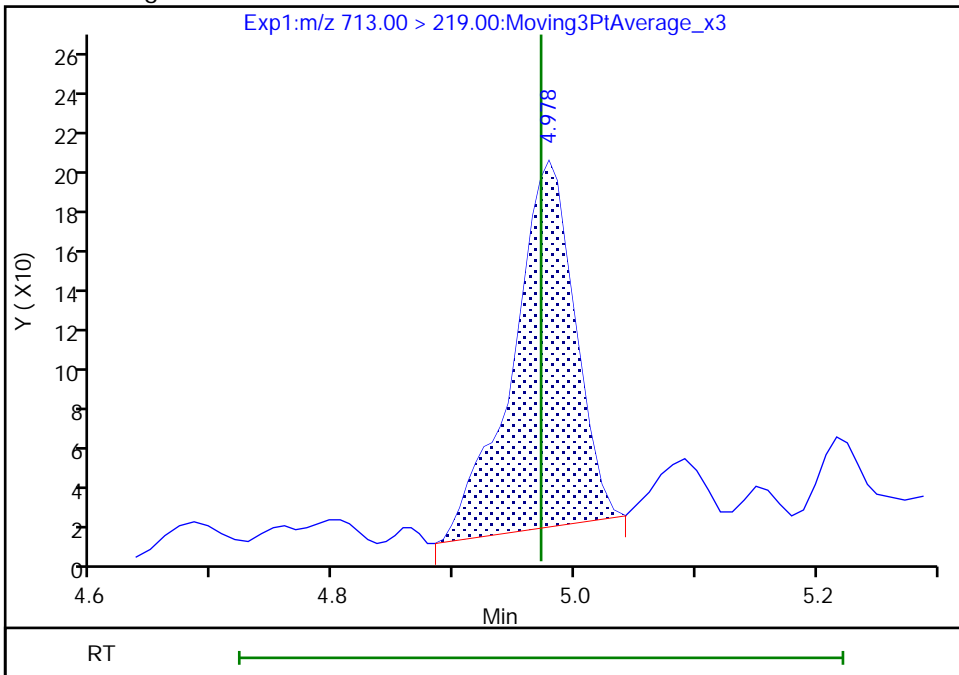
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 663  
Amount: 0.114983  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:14:31  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

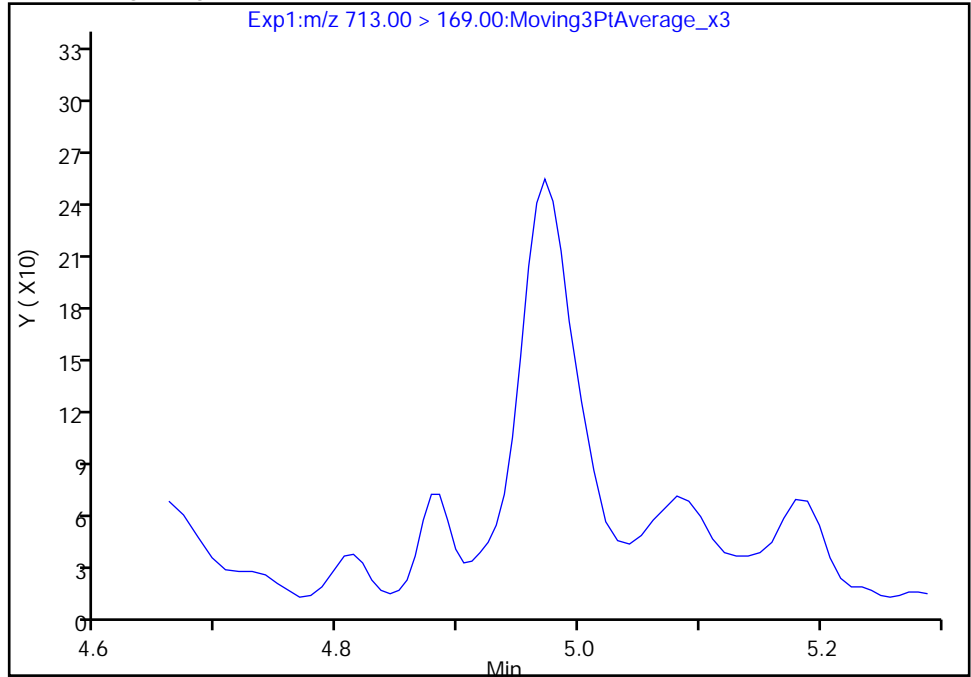
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

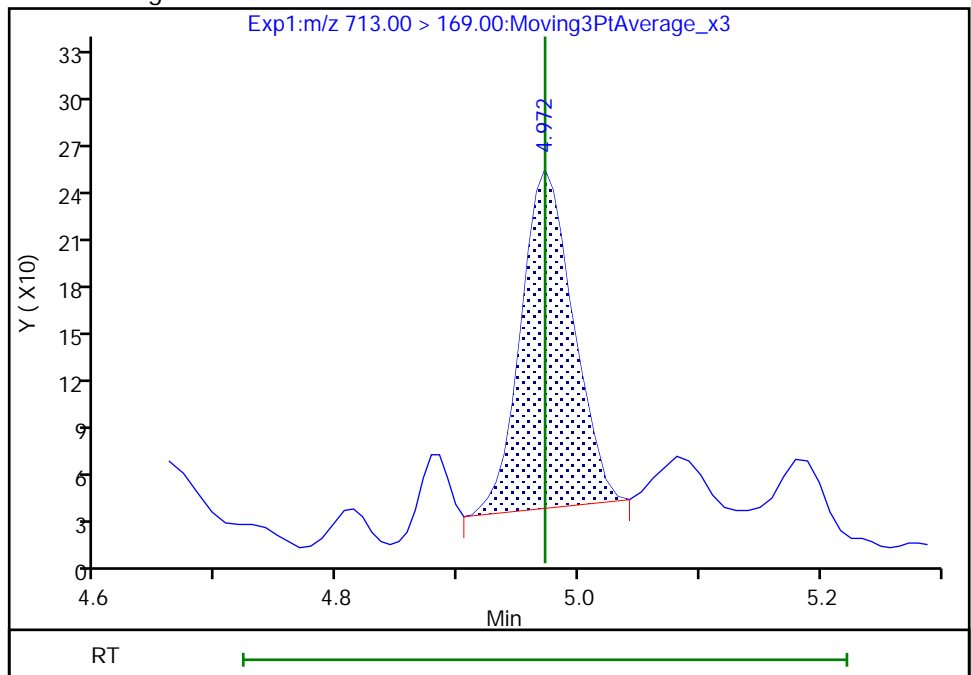
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 654  
Amount: 0.114983  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:14:31

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

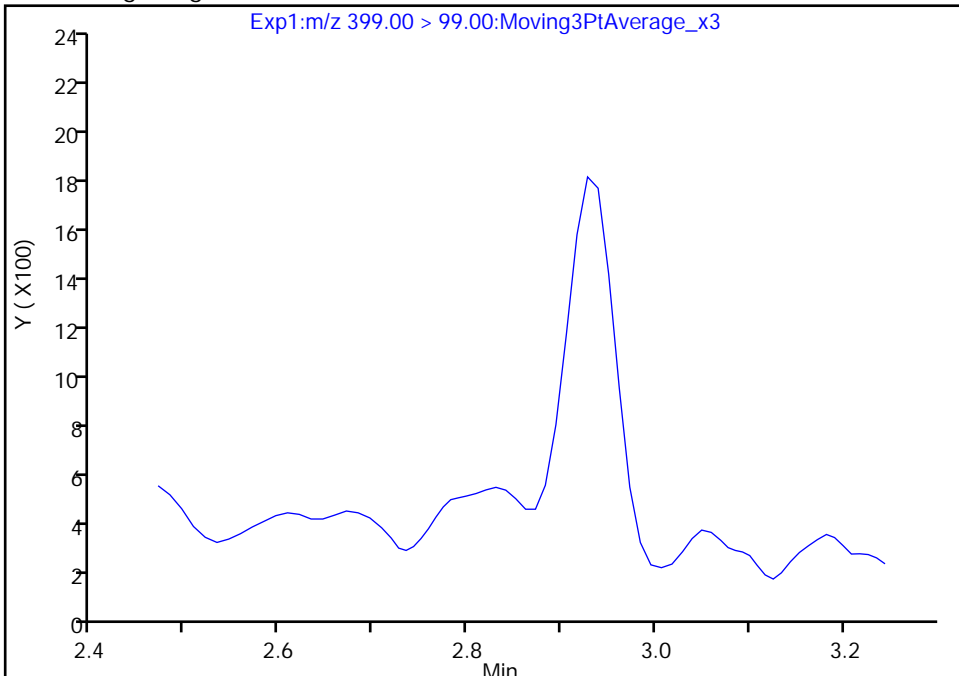
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

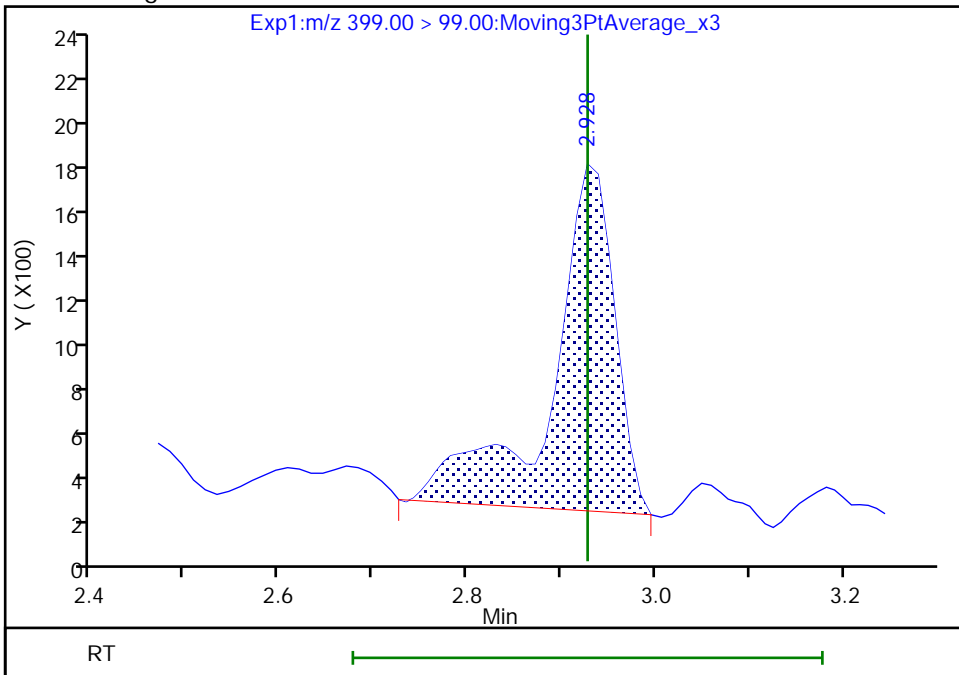
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 6959  
Amount: 0.447797  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:11:35  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

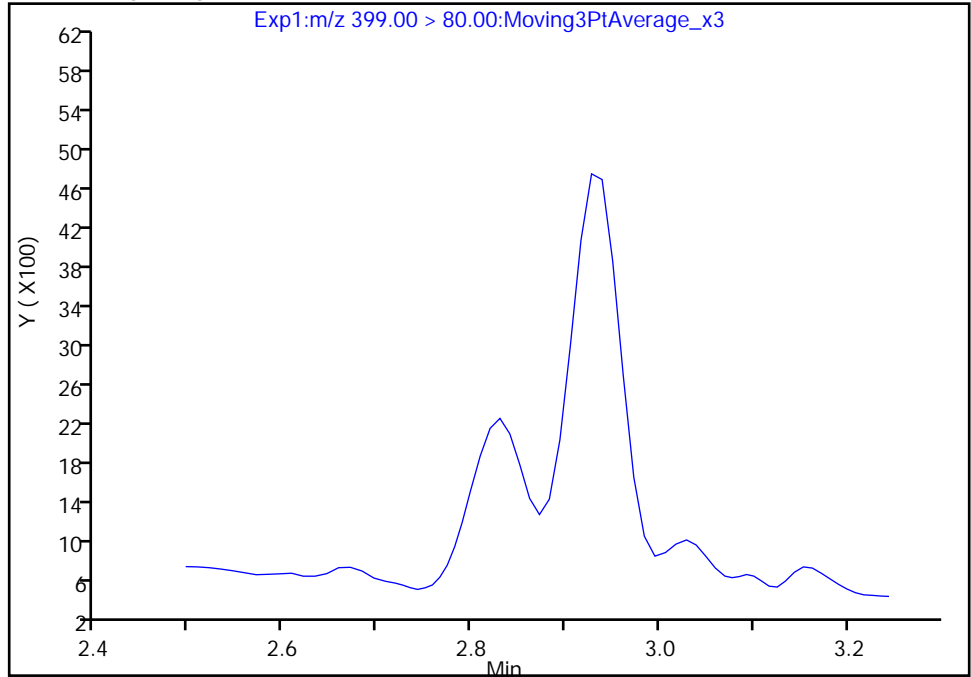
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

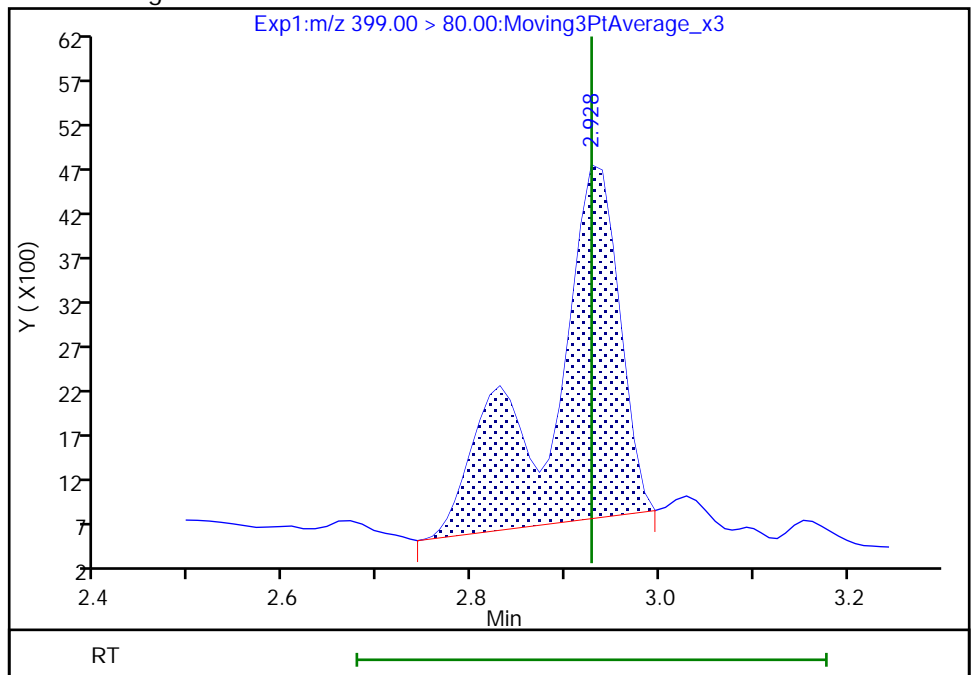
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 20853  
Amount: 0.447797  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

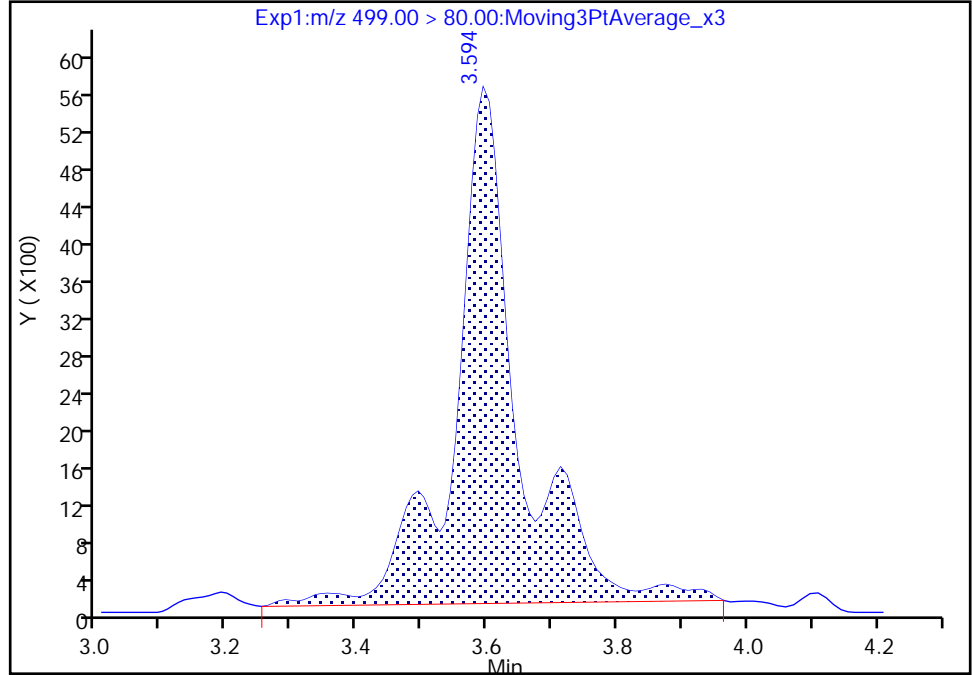
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

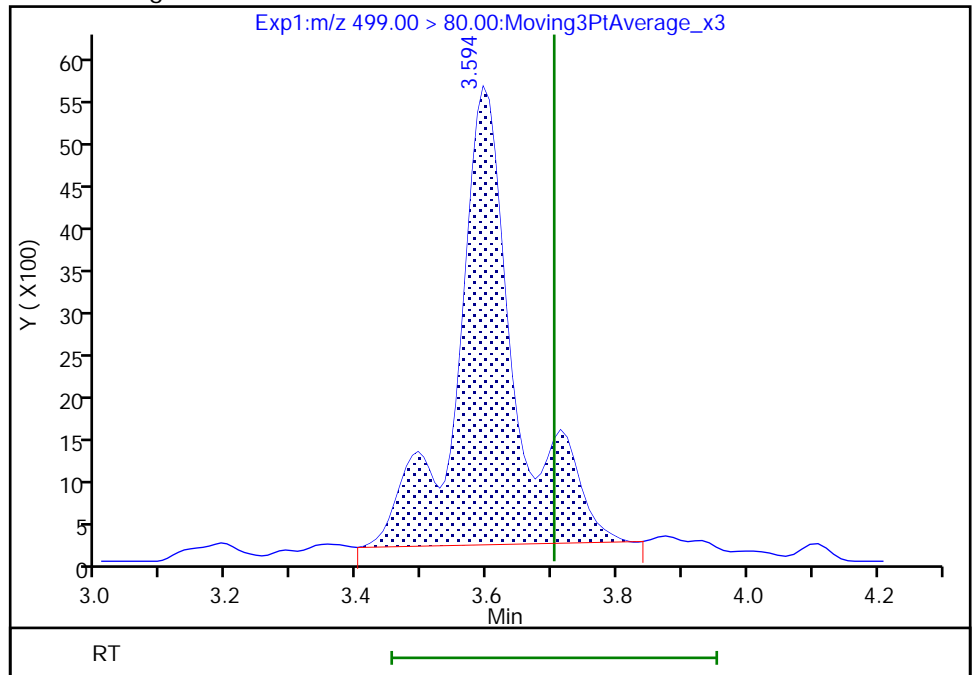
RT: 3.59  
Area: 38531  
Amount: 1.500375  
Amount Units: ng/ml

Processing Integration Results



RT: 3.59  
Area: 34219  
Amount: 1.332468  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:12:27  
Audit Action: Manually Integrated

Audit Reason: Isomers



Eurofins TestAmerica, Burlington

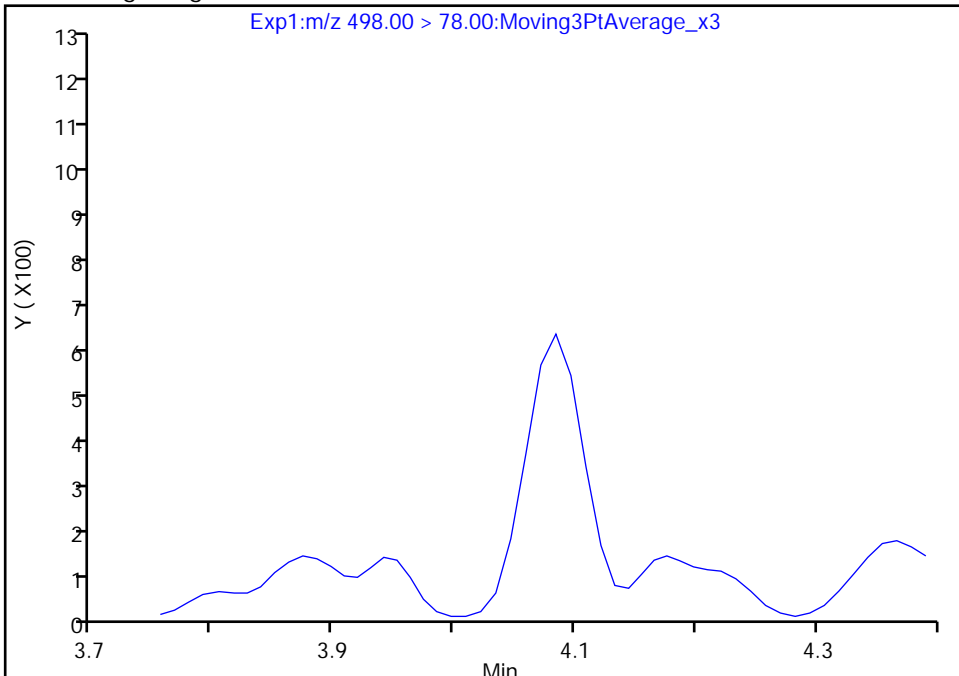
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

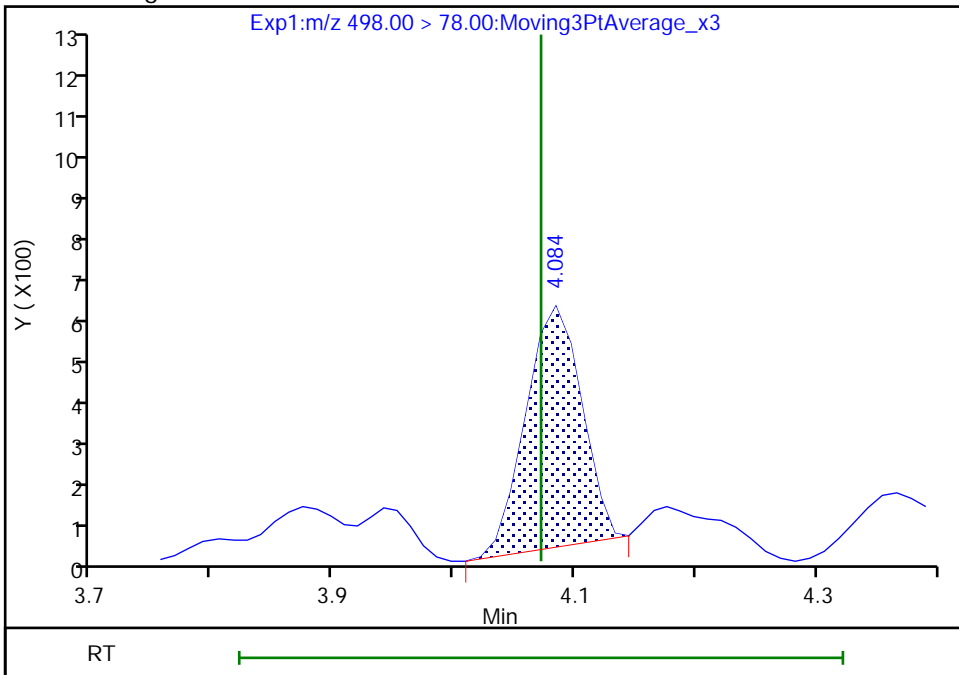
Not Detected  
Expected RT: 4.07

Processing Integration Results



RT: 4.08  
Area: 1802  
Amount: 0.041493  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:13:27  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

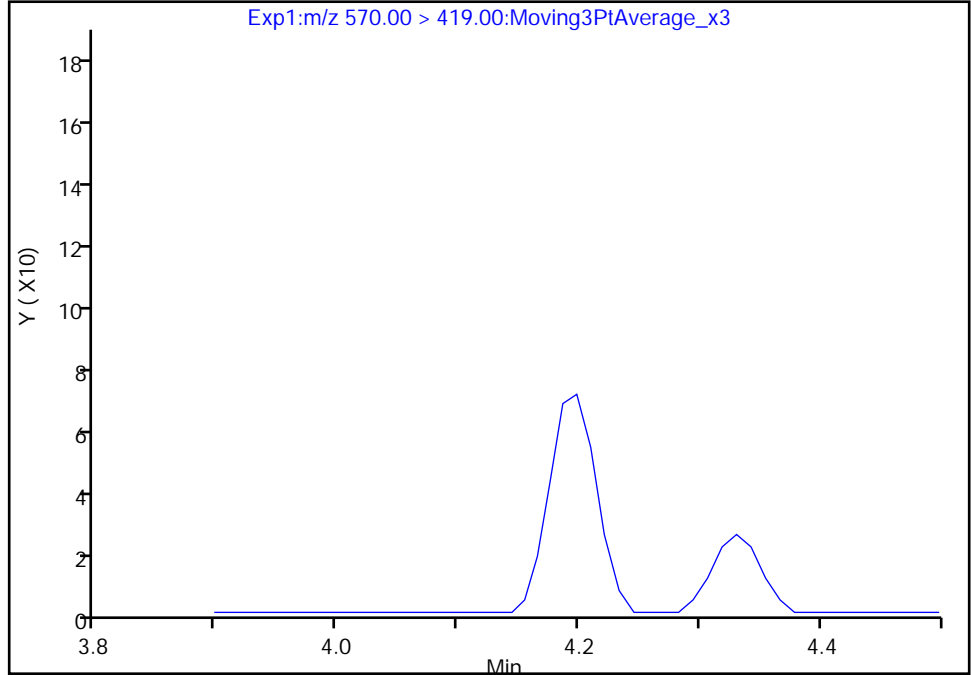
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

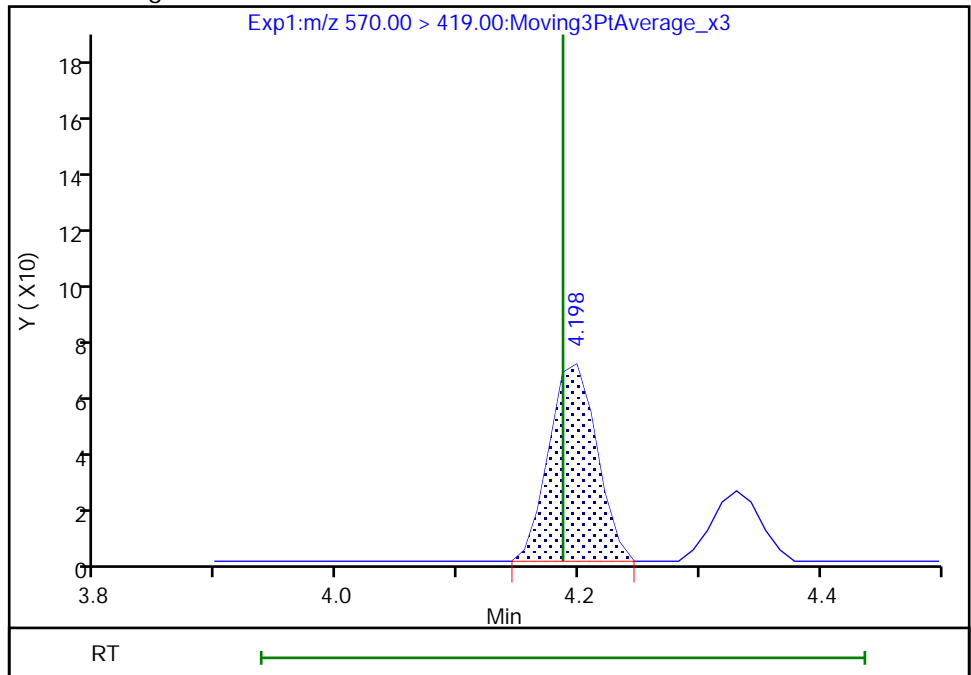
Not Detected  
Expected RT: 4.19

Processing Integration Results



Manual Integration Results

RT: 4.20  
Area: 192  
Amount: 0.053623  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:13:34  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

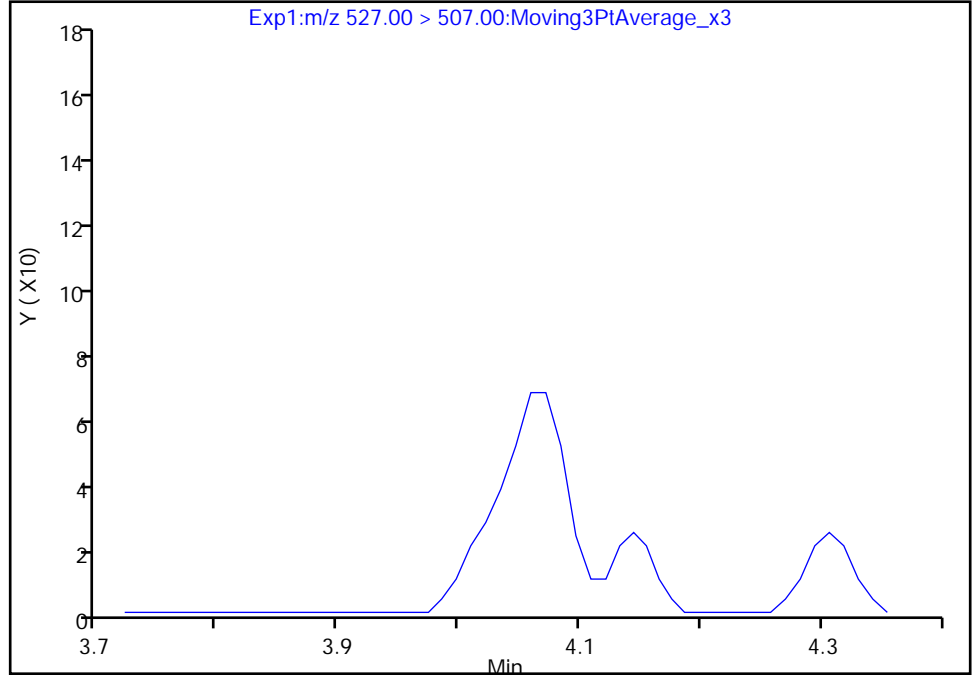
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E014.d  
Injection Date: 02-Aug-2019 05:33:49 Instrument ID: LC812  
Lims ID: 480-156213-F-13-A Lab Sample ID: 200-156213-13  
Client ID: 356023-MW4  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 14  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

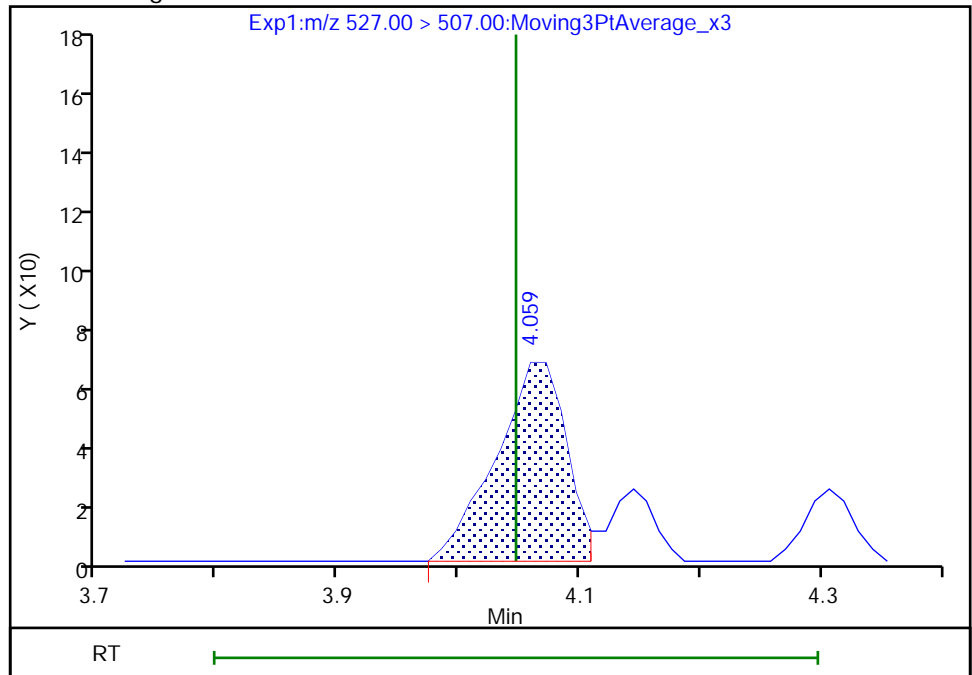
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.06  
Area: 266  
Amount: 0.024490  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:13:01  
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B Lab Sample ID: 480-156213-14  
 Matrix: Water Lab File ID: SC080119E015.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 13:15  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 284.6(mL) Date Analyzed: 08/02/2019 05:41  
 Con. Extract Vol.: 0.5(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: C-18 ID: 4.6(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.6	J	1.8	0.88
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.0		1.8	0.55
307-24-4	Perfluorohexanoic acid (PFHxA)	1.5	J	1.8	0.67
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	0.92	J	1.8	0.55
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.68
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.47
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.43
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.70
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.83
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.79
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.8	8.8
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	18	1.3
27619-97-2	6:2 FTS	ND		18	4.0
39108-34-4	8:2 FTS	ND		18	2.5

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B Lab Sample ID: 480-156213-14  
 Matrix: Water Lab File ID: SC080119E015.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 13:15  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 284.6(mL) Date Analyzed: 08/02/2019 05:41  
 Con. Extract Vol.: 0.5(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: C-18 ID: 4.6(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	74		25-150
STL00992	13C4 PFBA	78		25-150
STL01893	13C5 PFPeA	86		25-150
STL00993	13C2 PFHxA	90		50-150
STL01892	13C4 PFHpA	87		50-150
STL00990	13C4 PFOA	82		50-150
STL00995	13C5 PFNA	80		50-150
STL00996	13C2 PFDA	89		50-150
STL00997	13C2 PFUnA	79		50-150
STL00998	13C2 PFDoA	77		50-150
STL02116	13C2 PFTeDA	61		50-150
STL02337	13C3 PFBS	84		50-150
STL00994	18O2 PFHxS	92		50-150
STL00991	13C4 PFOS	83		50-150
STL02118	d3-NMeFOSAA	61		50-150
STL02117	d5-NEtFOSAA	64		50-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	96		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
 Lims ID: 480-156213-F-14-A  
 Client ID: 356023-MW6B  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 05:41:52 ALS Bottle#: 8 Worklist Smp#: 15  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-14-A  
 Misc. Info.: 200-0037095-015 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:19:13  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.508	3258592	39.1	78.3	11509	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.717	1.699	0.018	1.005	56049	0.9331		9.7		M
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	3371423	43.1	86.2	7903	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.067	2.067	0.0	1.000	73214	1.12		4.1		M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	3013736	39.2	84.4	602654	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.093	2.093	0.0	1.000	12333	0.1872	Target=1.90	3.8		
298.90 > 99.00	2.093	2.093	0.0	1.000	7642		1.61(0.95-2.85)	6.6		
D 60 M2-4:2 FTS	329.00 > 81.00	2.426	2.417	0.009	0.721	339342	45.7	97.8	200	
61 1H,1H,2H,2H-perfluorohexanesulfoni										M
327.00 > 307.00	2.417	2.417	0.0	0.996	551	0.0317		4.4		M
D 7 13C2 PFHxA	315.00 > 270.00	2.471	2.459	0.012	0.734	3500276	45.1	90.1	7503	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.471	2.459	0.012	1.000	61709	0.8560	Target=13.23	12.3		
313.00 > 119.00	2.471	2.459	0.012	1.000	5119		12.05(6.61-19.84)	6.3		
D 64 13C3 HFPO-DA	332.10 > 287.00	2.608	2.596	0.012	0.775	229553	46.1	92.1	1459	
D 11 18O2 PFHxS	403.00 > 84.00	2.939	2.916	0.023	0.874	1952783	43.4	91.8	7491	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.874	3322204	43.7	87.3	7755	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.939	2.928	0.011	1.000	8337	0.1532	Target=3.37	7.4		M
399.00 > 99.00	2.939	2.928	0.011	1.000	2784		2.99(1.69-5.06)	4.2		M
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.939	2.928	0.011	1.000	10501	0.1687	Target=3.76	2.7		
363.00 > 169.00	2.939	2.928	0.011	1.000	2506		4.19(1.88-5.65)	12.3		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.355	3.335	0.020	0.997	463358	49.5		104	825	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.355	3.336	0.019	1.000	8874	0.5304			21.9	
D 14 13C4 PFOA										
417.00 > 372.00	3.364	3.344	0.020	1.000	3299878	41.1		82.1	9338	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.364	3.355	0.009	1.000	37603	0.5236	Target=2.84	3.2		M
413.00 > 169.00	3.373	3.355	0.018	1.003	13661		2.75(1.42-4.25)	29.1		M
* 62 13C2 PFOA										
415.00 > 370.00	3.364	3.355	0.009		4417701	50.0			9314	
D 18 13C4 PFOS										
503.00 > 80.00	3.713	3.695	0.018	1.104	1484235	39.6		82.8	4234	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.723	3.703	0.020	1.003	4587	0.1561	Target=4.33	7.7		M
499.00 > 99.00	3.713	3.703	0.010	1.000	2065		2.22(2.16-6.49)	4.0		M
D 19 13C5 PFNA										
468.00 > 423.00	3.734	3.715	0.019	1.110	2934450	40.0		80.1	8300	
D 23 13C2 PFDA										
515.00 > 470.00	4.047	4.036	0.011	1.203	2616896	44.6		89.3	13393	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.059	4.036	0.023	1.207	398325	46.1		96.3	1065	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.035	4.047	-0.012	0.994	332	0.0299			5.1	M
D 21 13C8 FOSA										
506.00 > 78.00	4.084	4.061	0.023	1.214	2484867	36.9		73.8	11813	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.072	4.072	0.0	0.997	1828	0.0403			10.7	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.198	4.178	0.020	1.248	229770	30.7		61.4	2793	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.210	4.187	0.023	1.003	266	0.0765			0.3	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.284	2099170	39.3		78.6	9110	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.307	0.012	1.000	4787	0.1329	Target=7.95	2.4		M
563.00 > 169.00	4.307	4.307	0.0	0.997	914		5.24(3.98-11.93)	9.3		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.331	4.308	0.023	1.287	265510	31.8		63.6	1219	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.415	4.403	0.012	1.189	1225	0.0119			7.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.537	0.012	1.352	2226382	38.7		77.4	8544	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.965	0.014	1.480	2409870	30.4		60.9	9016	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.979	4.972	0.007	1.000	433	0.0675	Target=1.02	3.9		M
713.00 > 219.00	4.972	4.972	0.0	0.999	386		1.12(0.51-1.54)	7.1		M
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.398	5.390	0.008	1.000	20229	0.0584	Target=5.23	5.9		M
813.00 > 169.00	5.398	5.390	0.008	1.000	4791		4.22(2.62-7.85)	84.5		M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.398	5.390	0.008	1.605	2375019	33.7		67.4	6390	

**QC Flag Legend**

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d

Injection Date: 02-Aug-2019 05:41:52

Instrument ID: LC812

Lims ID: 480-156213-F-14-A

Lab Sample ID: 200-156213-14

Client ID: 356023-MW6B

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 15

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

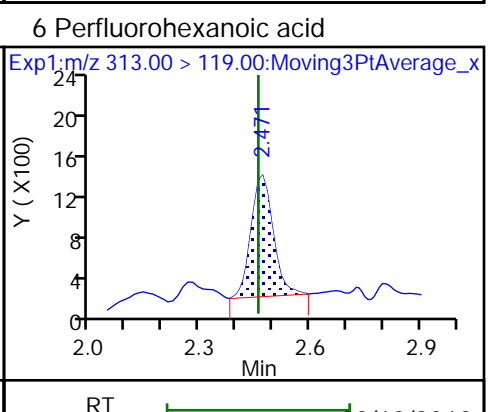
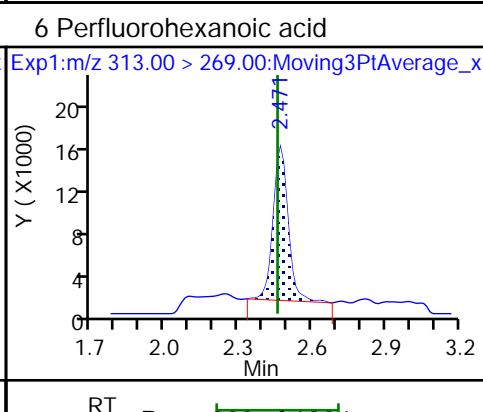
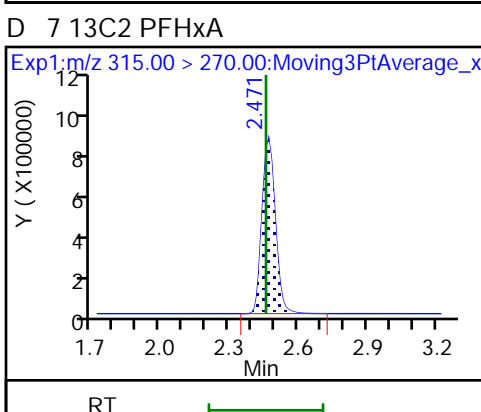
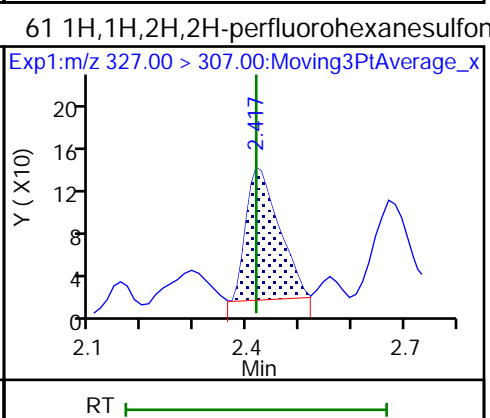
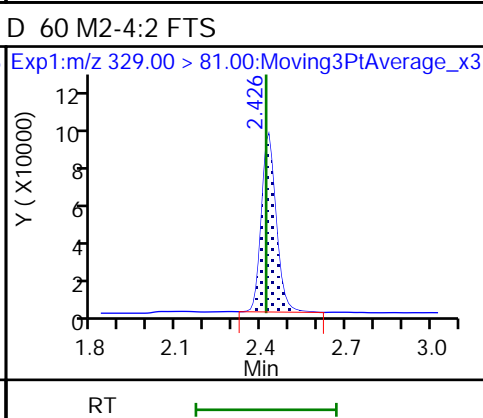
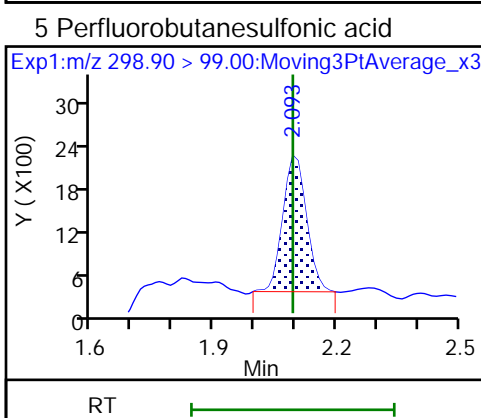
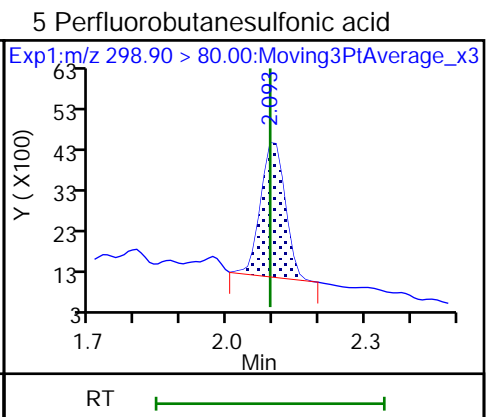
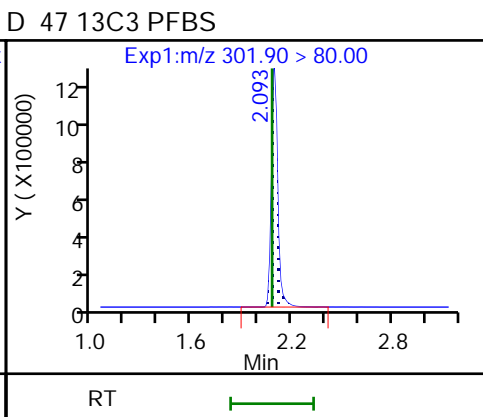
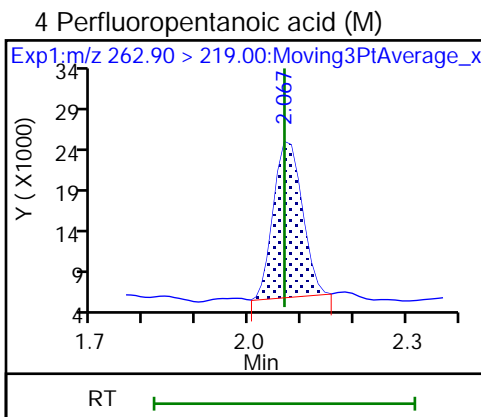
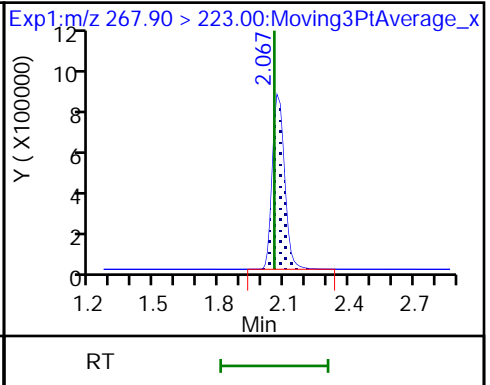
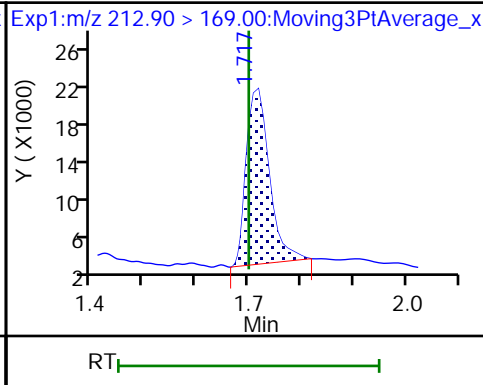
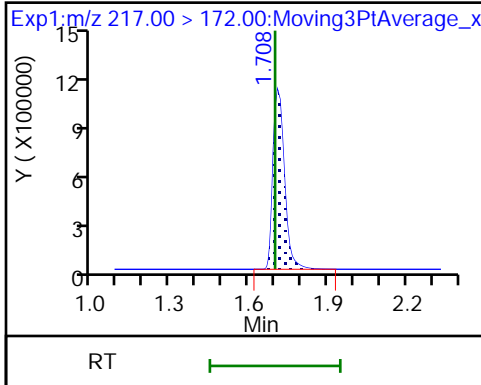
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

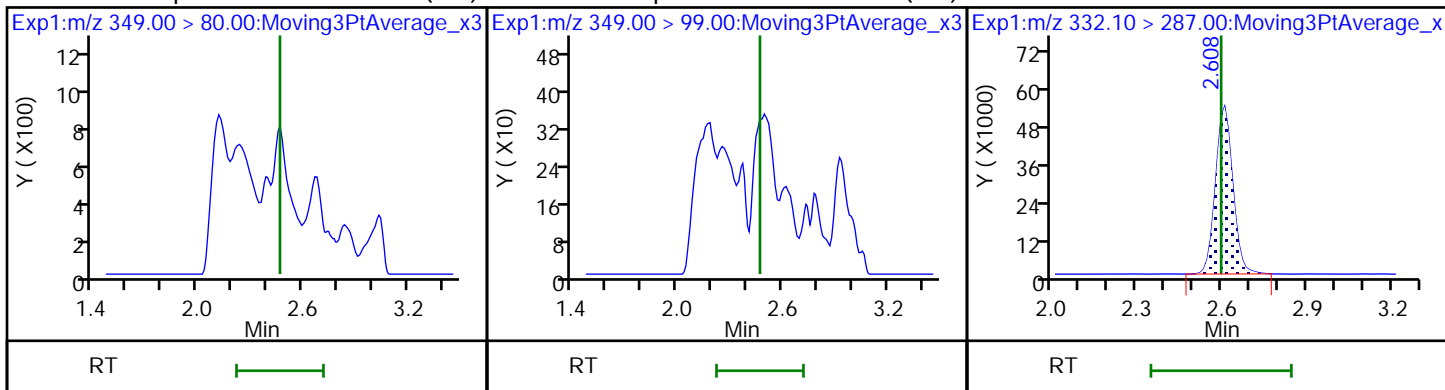
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

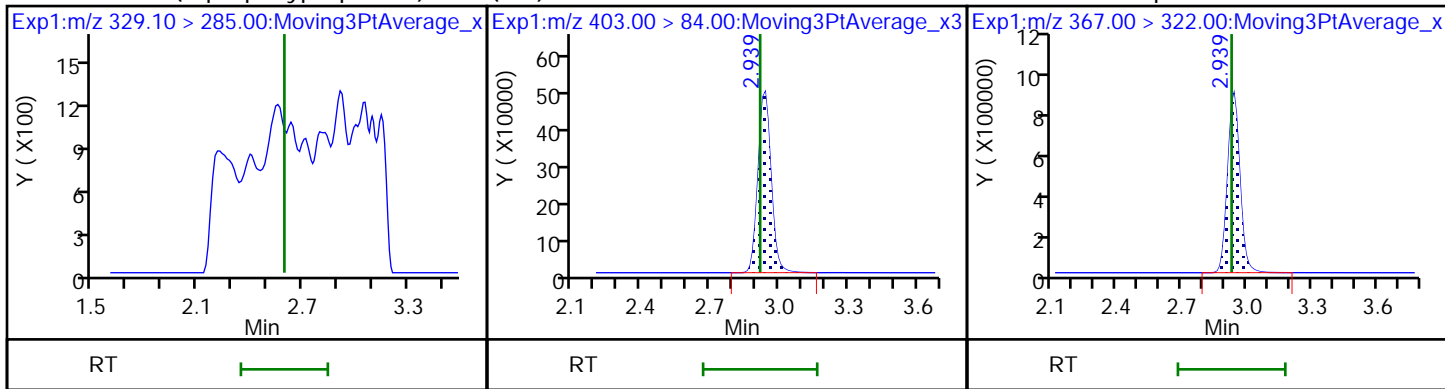
D 3 13C5 PFPeA



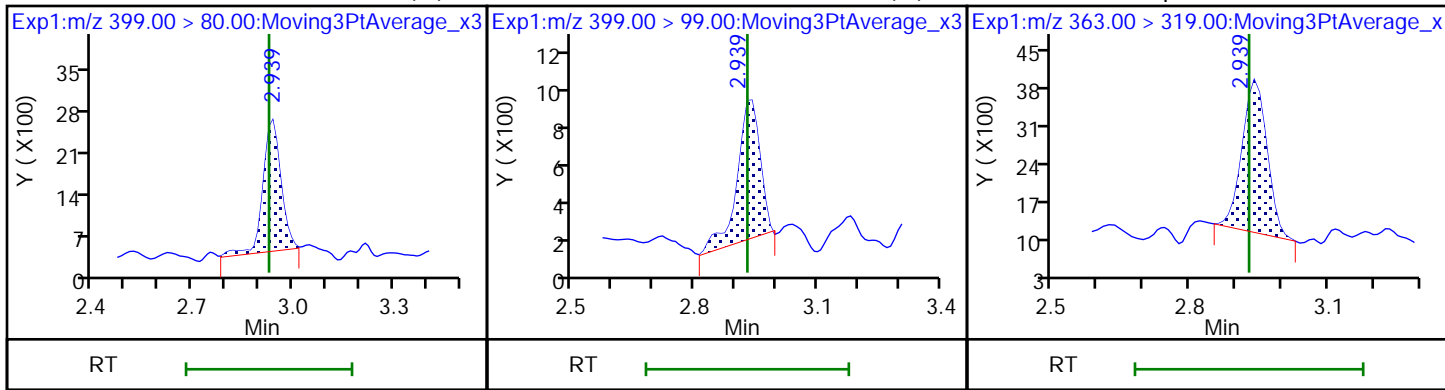
70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) D 64 13C3 HFPO-DA



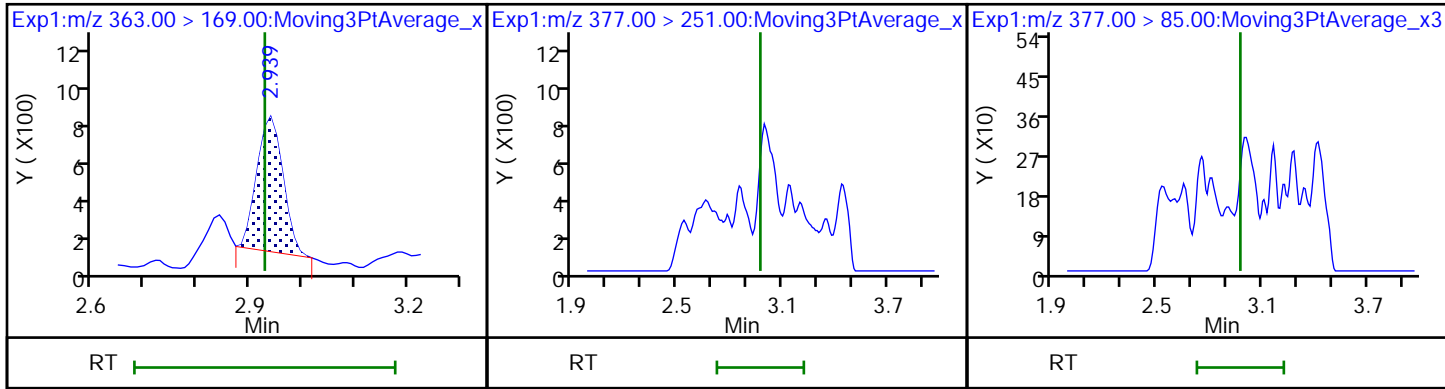
67 Perfluoro(2-propoxypropanoic) acid (ND) 18O2 PFHxS D 9 13C4 PFHpA



8 Perfluorohexanesulfonic acid (M) 8 Perfluorohexanesulfonic acid (M) 10 Perfluoroheptanoic acid

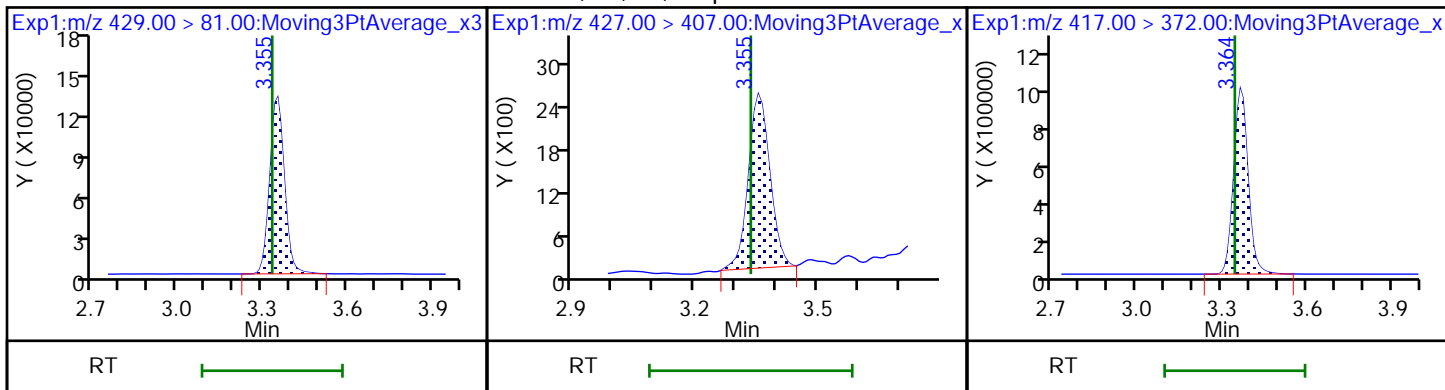


10 Perfluoroheptanoic acid 77 DONA (ND) 77 DONA (ND)

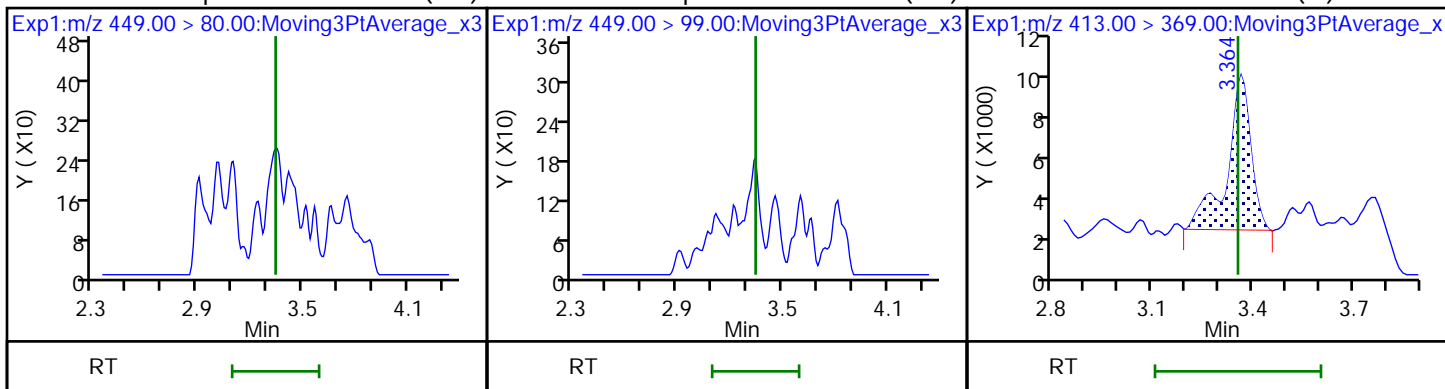


D 12 M2-6:2 FTS

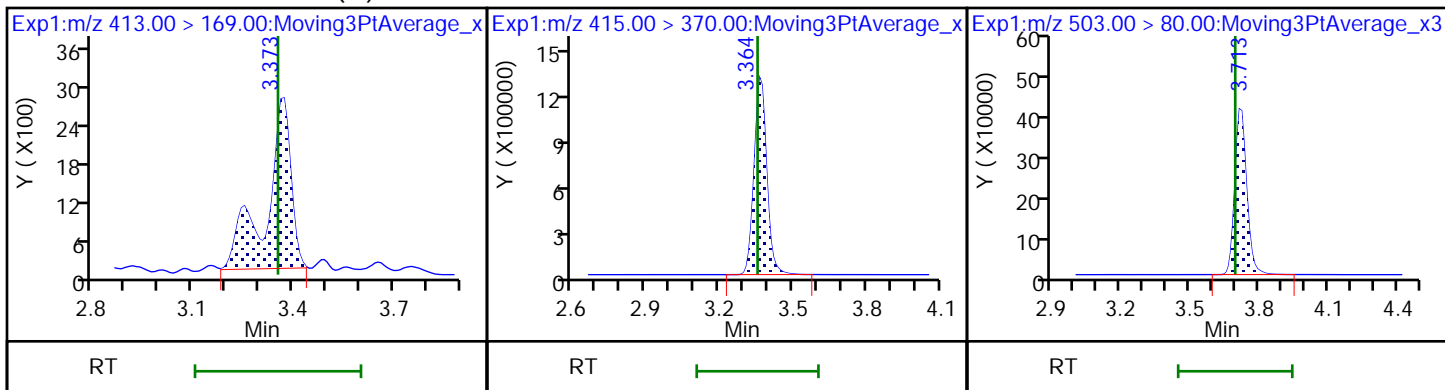
13 1H,1H,2H,2H-perfluorooctanesulfonD 14 13C4 PFOA



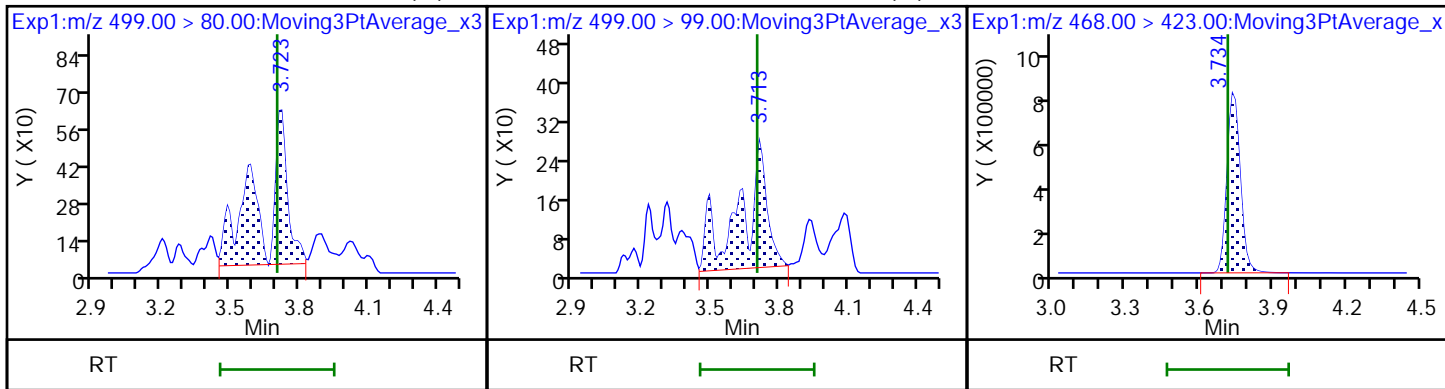
16 Perfluoroheptanesulfonic acid (ND) 16 Perfluoroheptanesulfonic acid (ND) 15 Perfluorooctanoic acid (M)

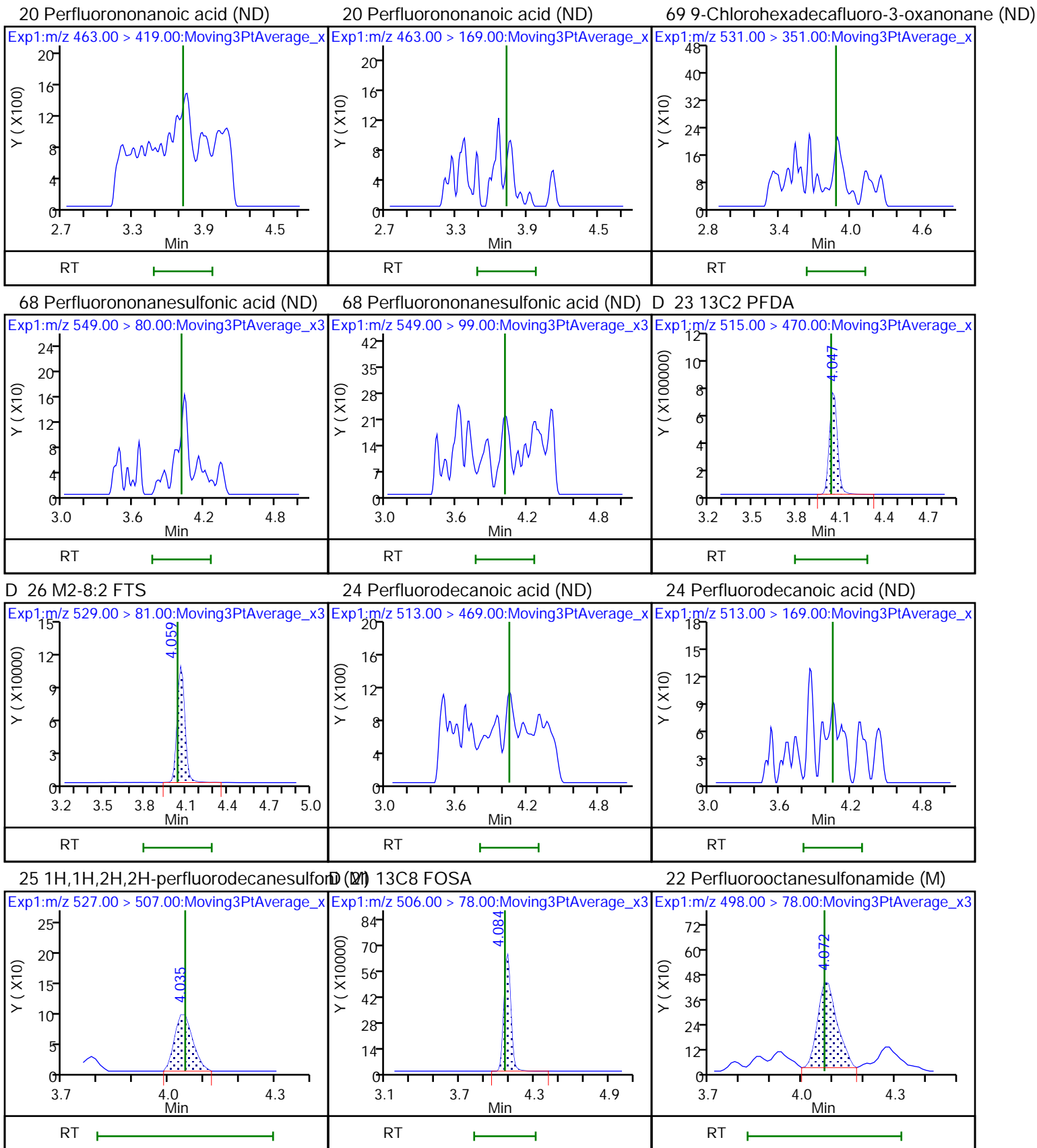


15 Perfluorooctanoic acid (M) \* 62 13C2 PFOA D 18 13C4 PFOS



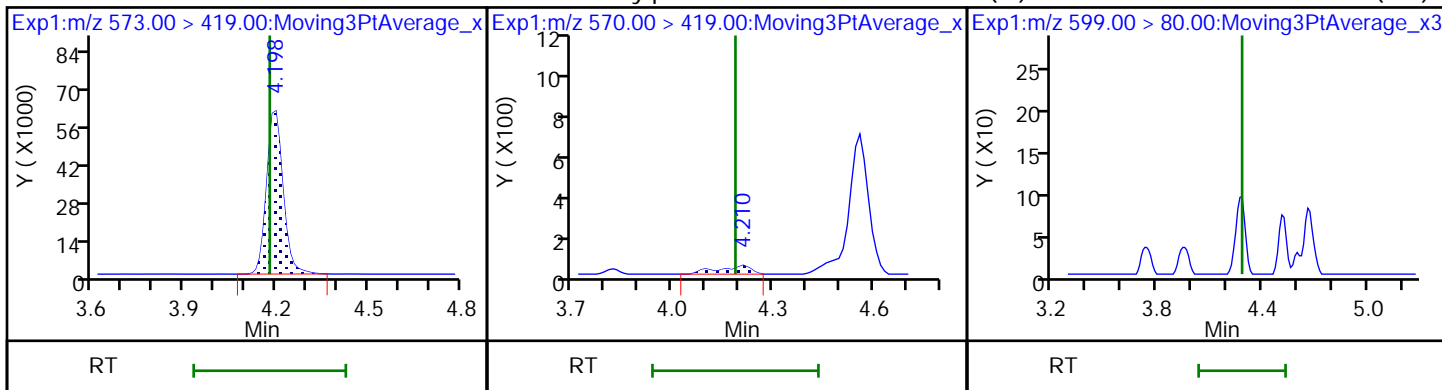
17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid (M) D 19 13C5 PFNA





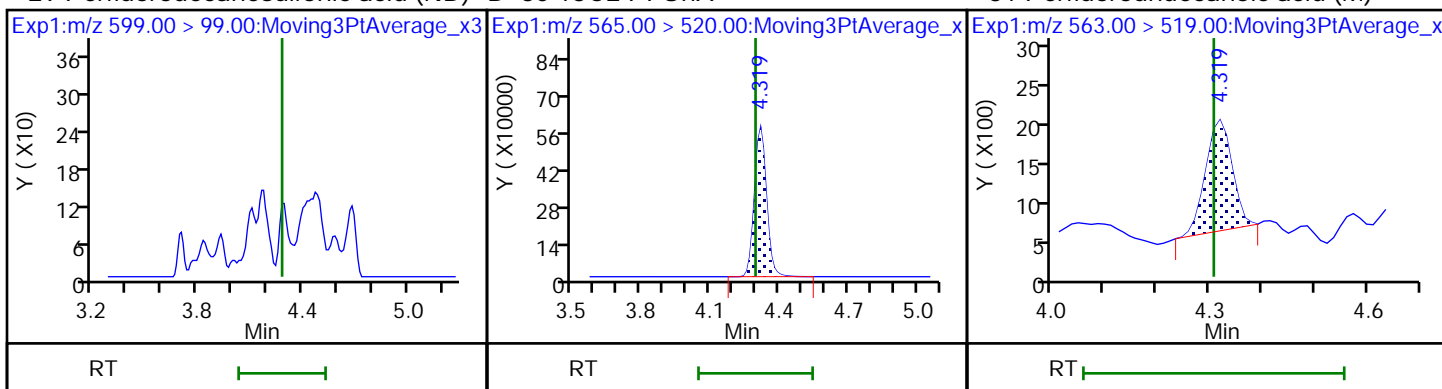
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonamido (M) Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUoA

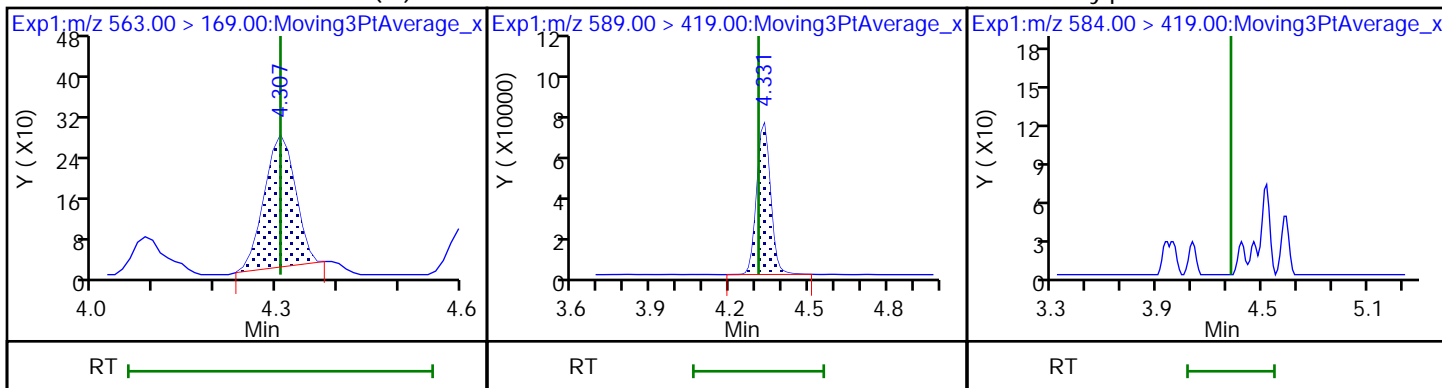
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

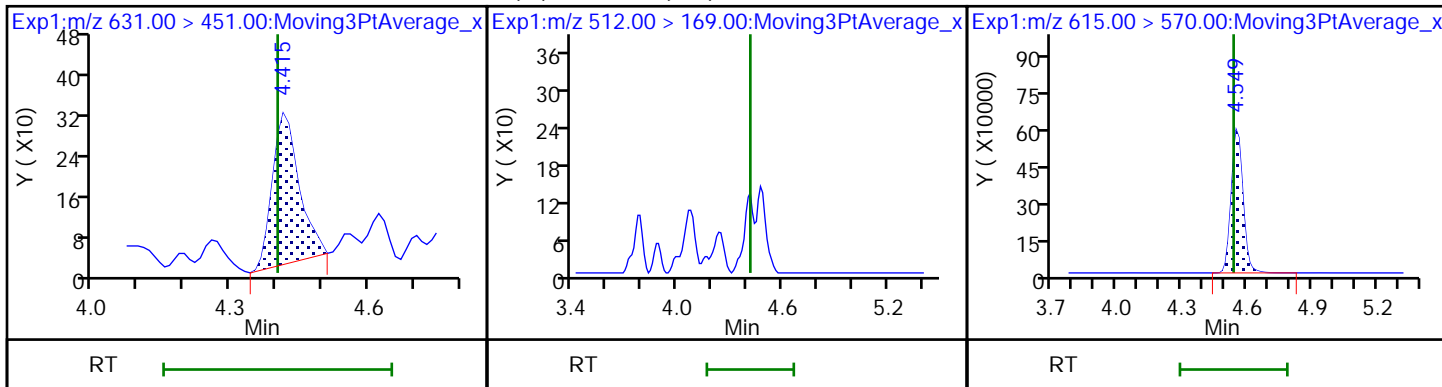
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamidoa (ND)



66 11-Chloroeicosafuoro-3-oxaundecan (M) MeFOSA (ND)

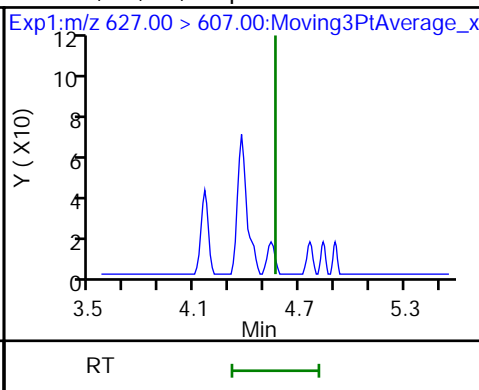
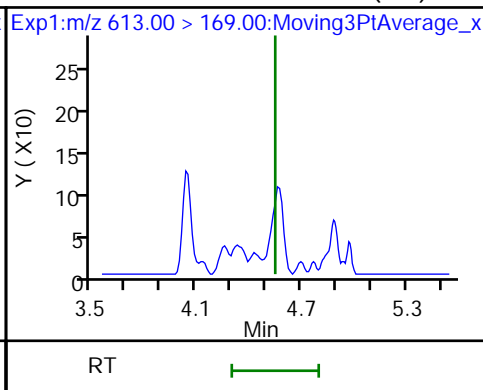
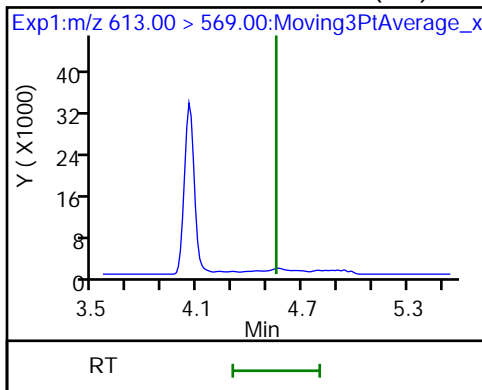
D 36 13C2 PFDoA



37 Perfluorododecanoic acid (ND)

37 Perfluorododecanoic acid (ND)

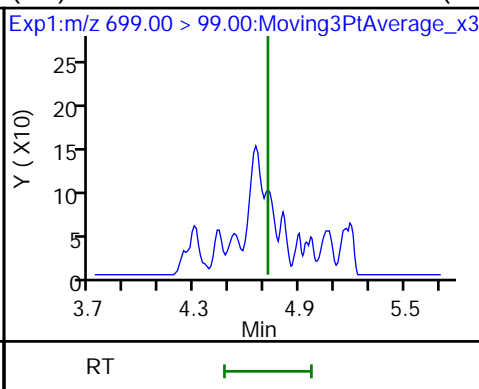
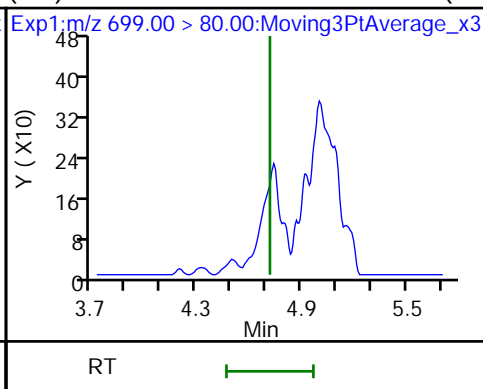
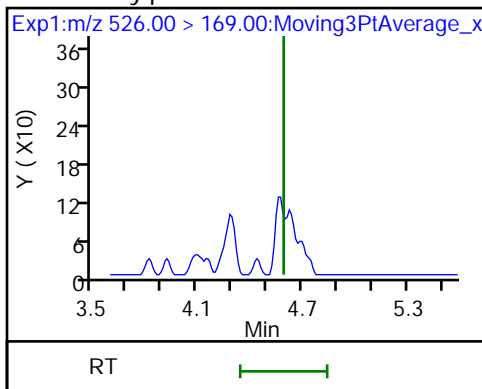
74 1H,1H,2H,2H-perfluorododecanesulfo (ND)



39 N-ethylperfluoro-1-octanesulfonami (ND)

Perfluorododecanesulfonic acid (PF (ND)

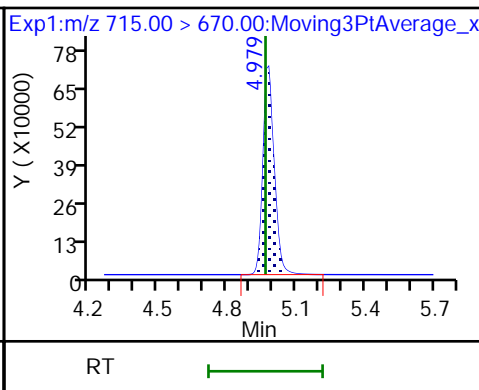
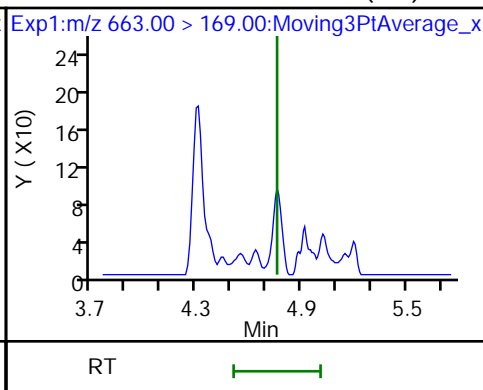
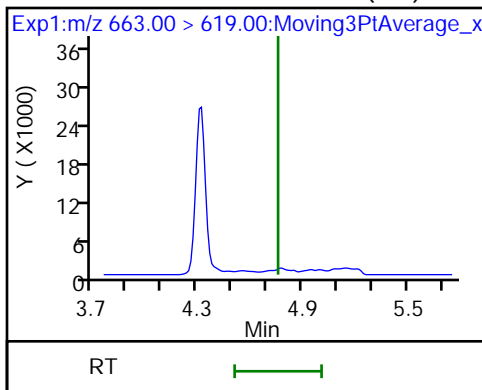
Perfluorododecanesulfonic acid (PF (ND)



41 Perfluorotridecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

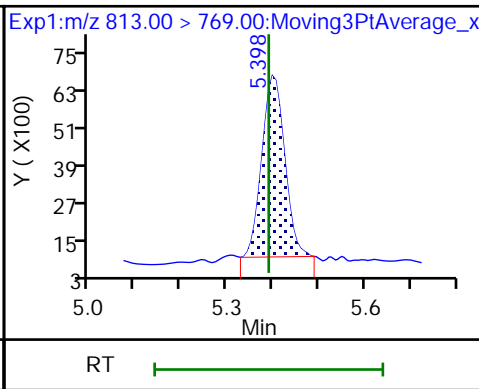
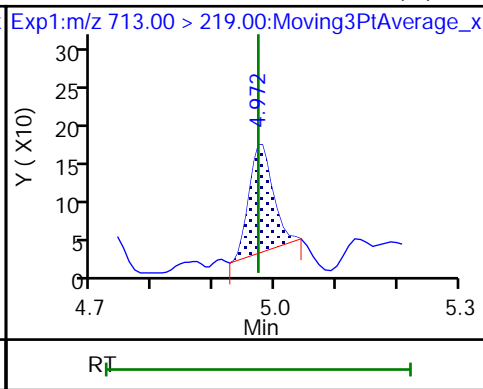
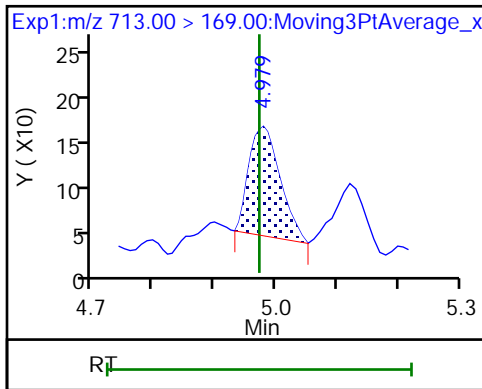
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)

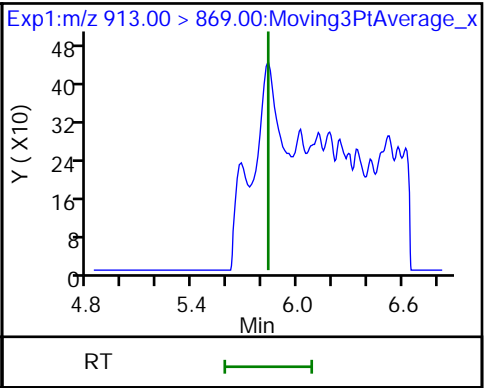
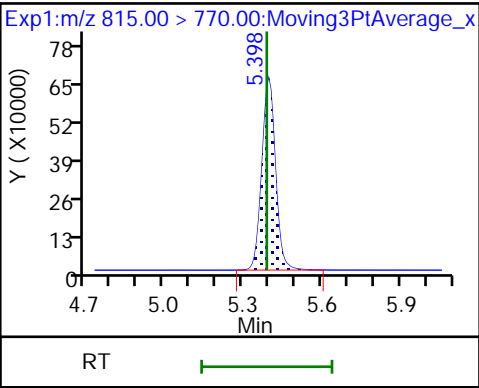
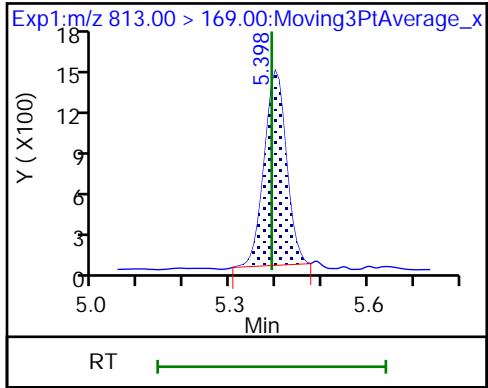
45 Perfluorohexadecanoic acid



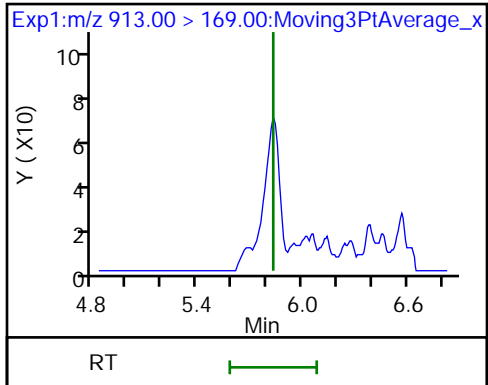
45 Perfluorohexadecanoic acid (M)

D 44 13C2 PFHxDA

46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



Euofins TestAmerica, Burlington

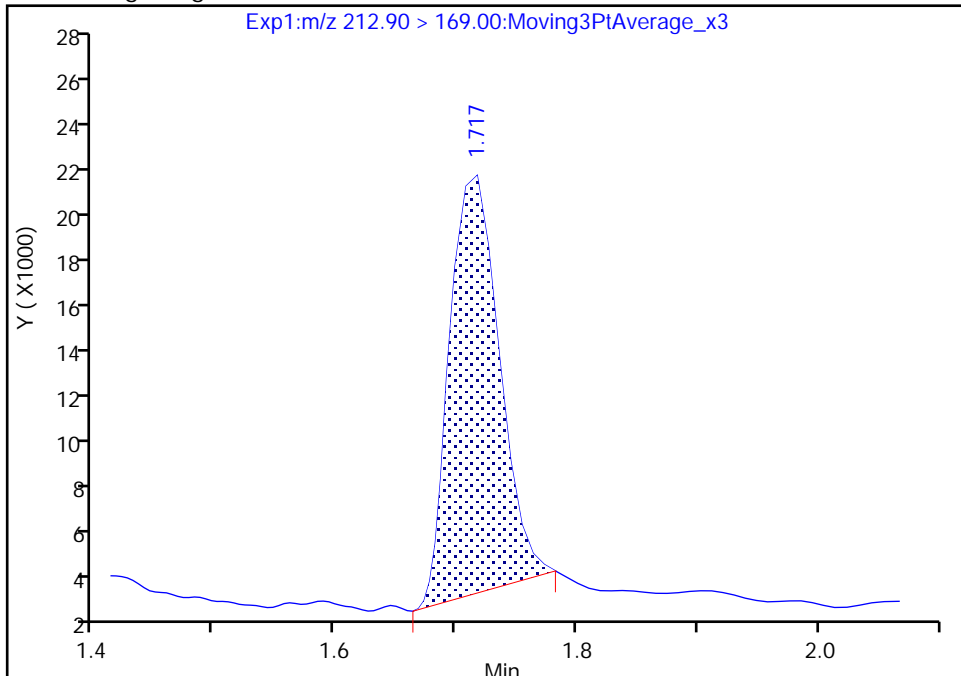
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Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

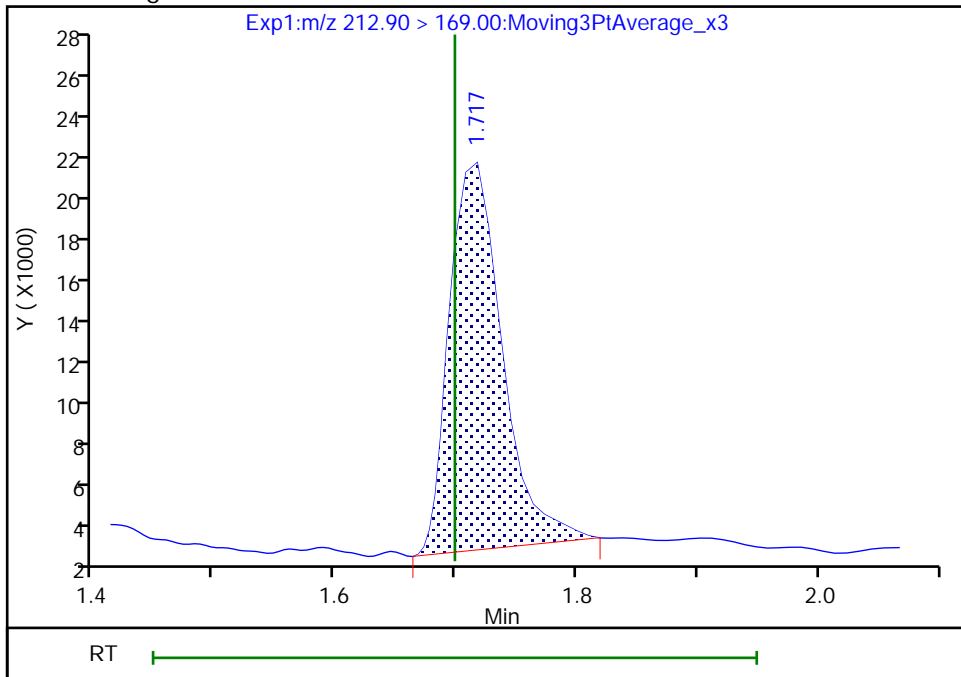
RT: 1.72  
Area: 51412  
Amount: 0.855929  
Amount Units: ng/ml

Processing Integration Results



RT: 1.72  
Area: 56049  
Amount: 0.933127  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:15:08  
Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Burlington

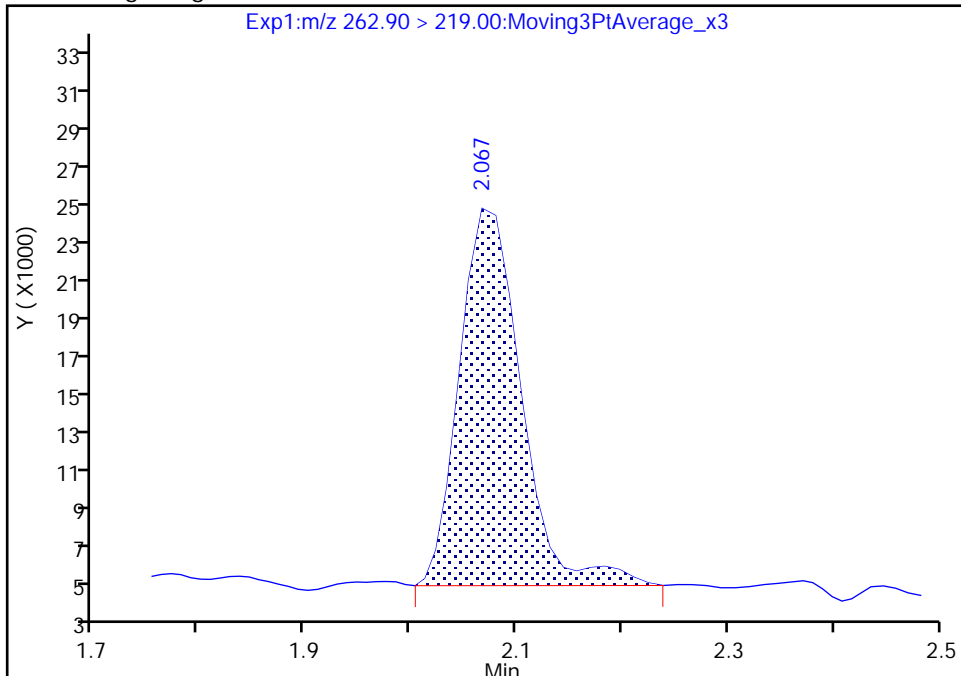
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Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

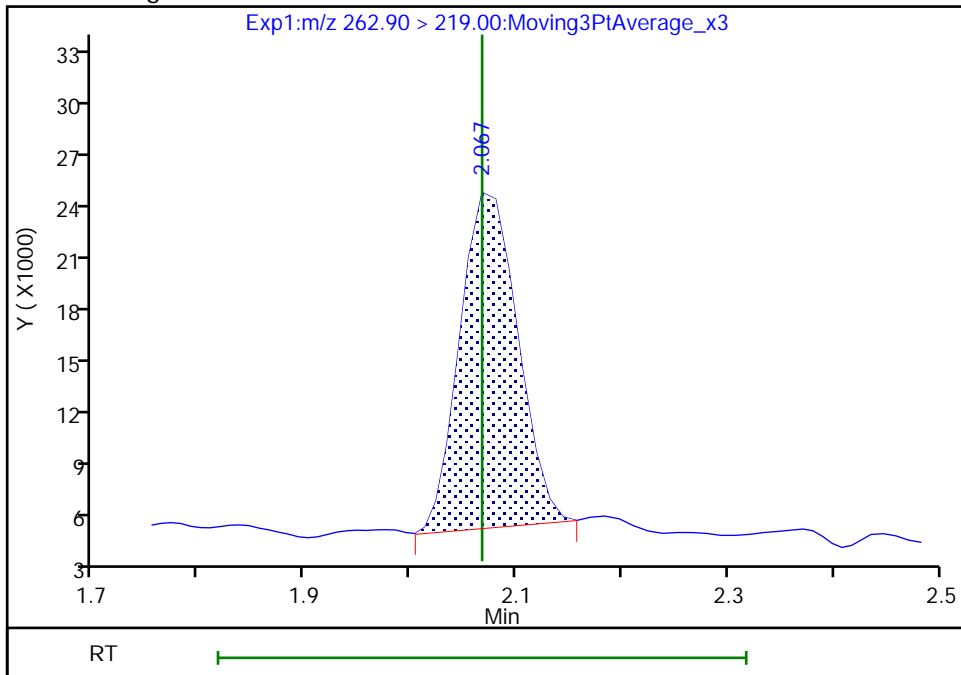
RT: 2.07  
Area: 79371  
Amount: 1.216448  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 73214  
Amount: 1.122085  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:15:13  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

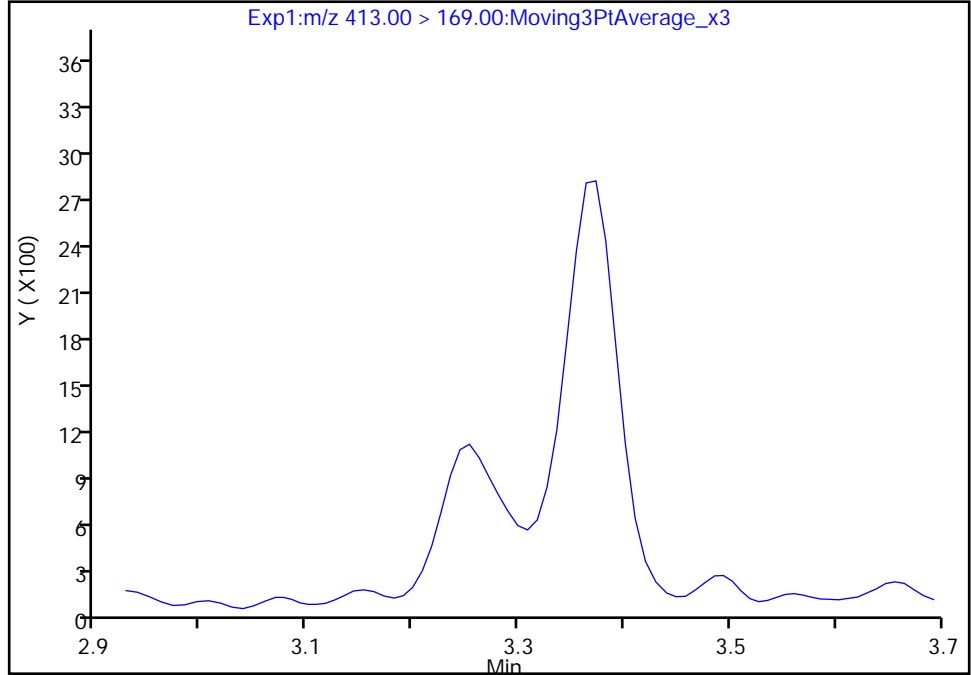
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Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

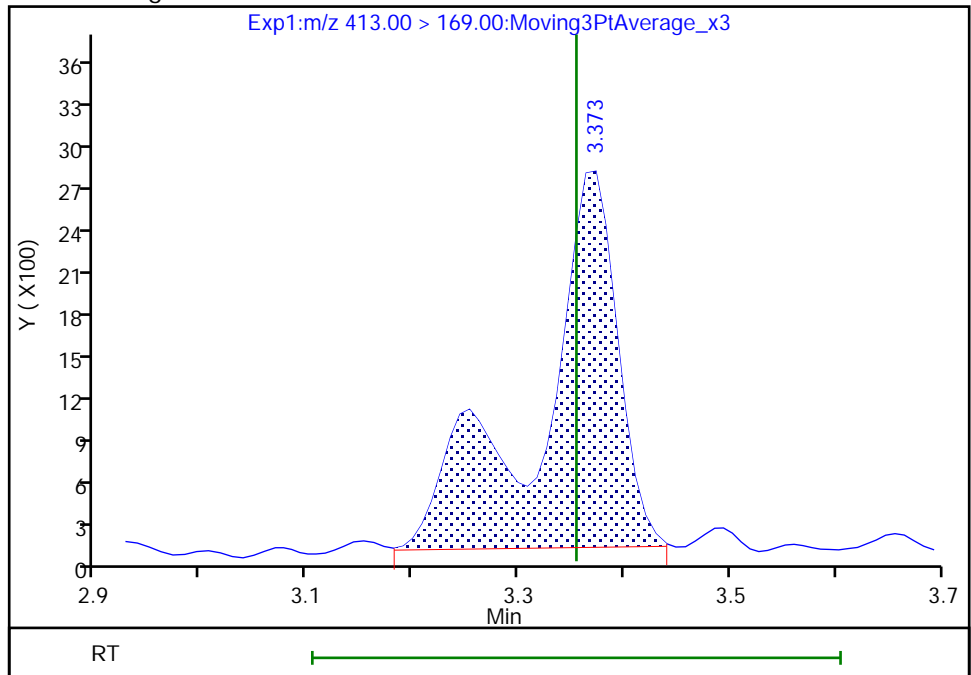
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.37  
Area: 13661  
Amount: 0.523619  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:16:09  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

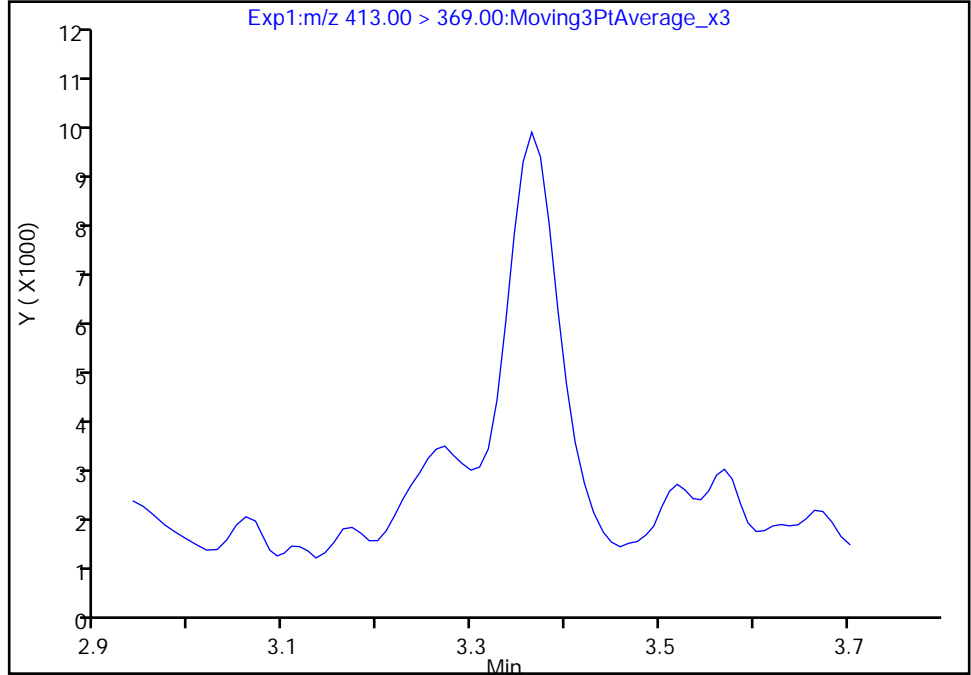
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

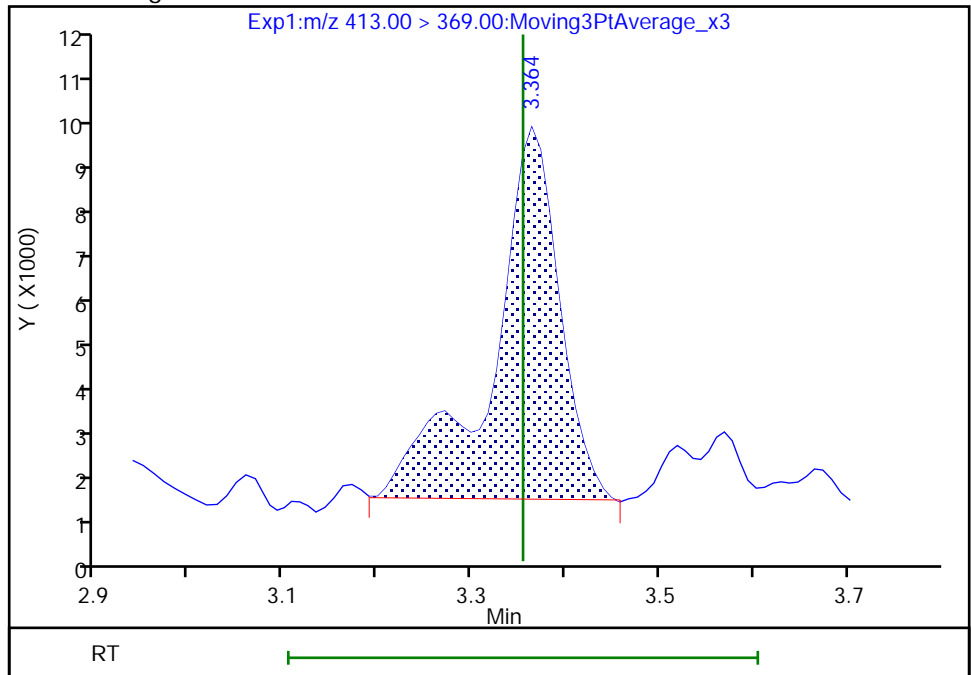
Not Detected  
Expected RT: 3.35

Processing Integration Results



RT: 3.36  
Area: 37603  
Amount: 0.523619  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:16:12

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

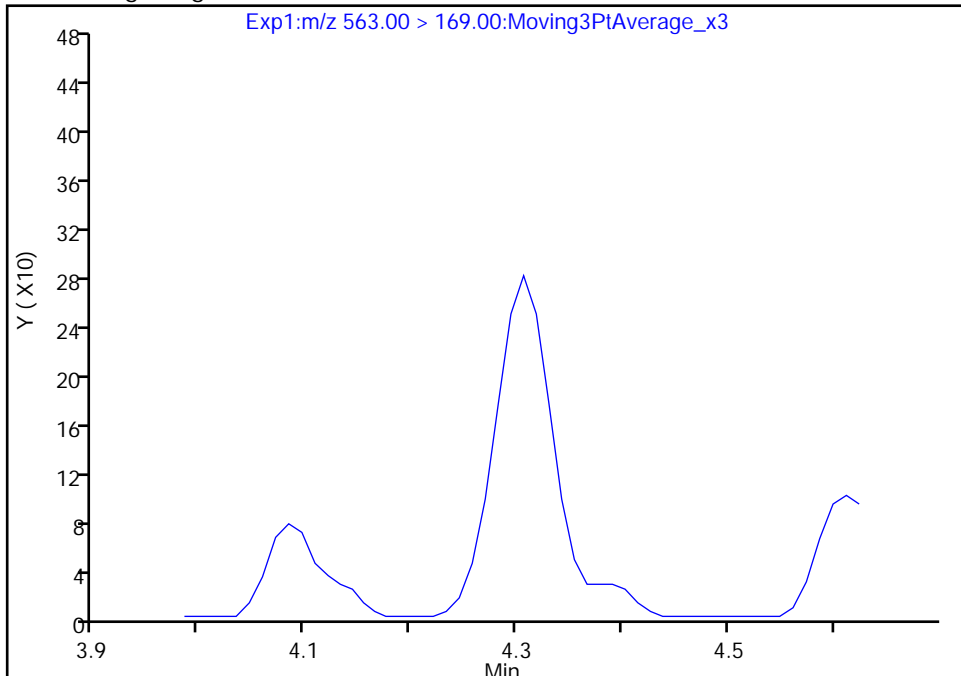
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

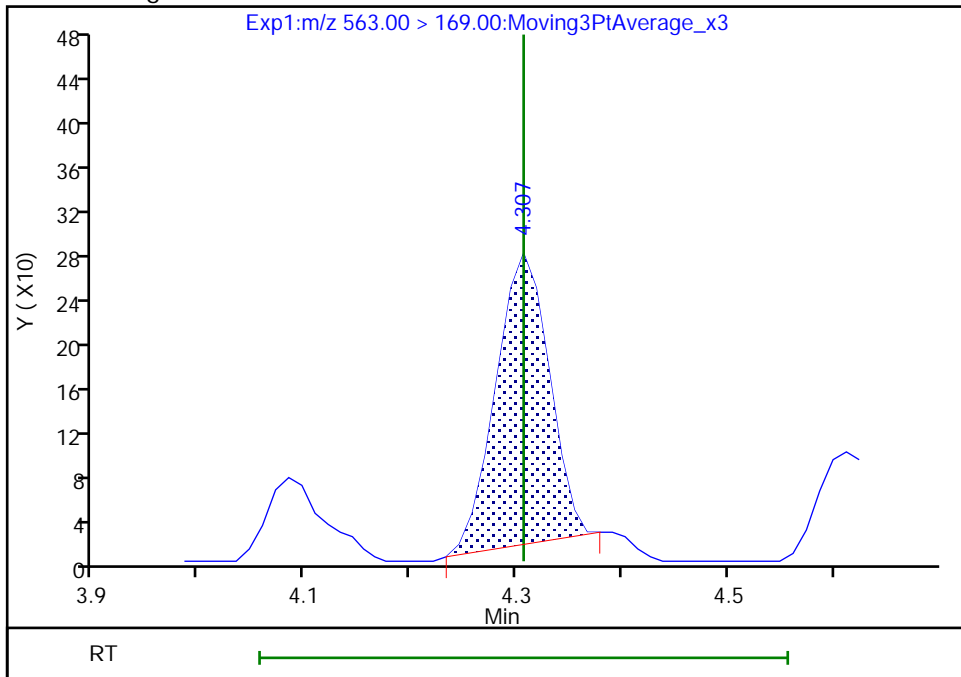
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 914  
Amount: 0.132884  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:17:57  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

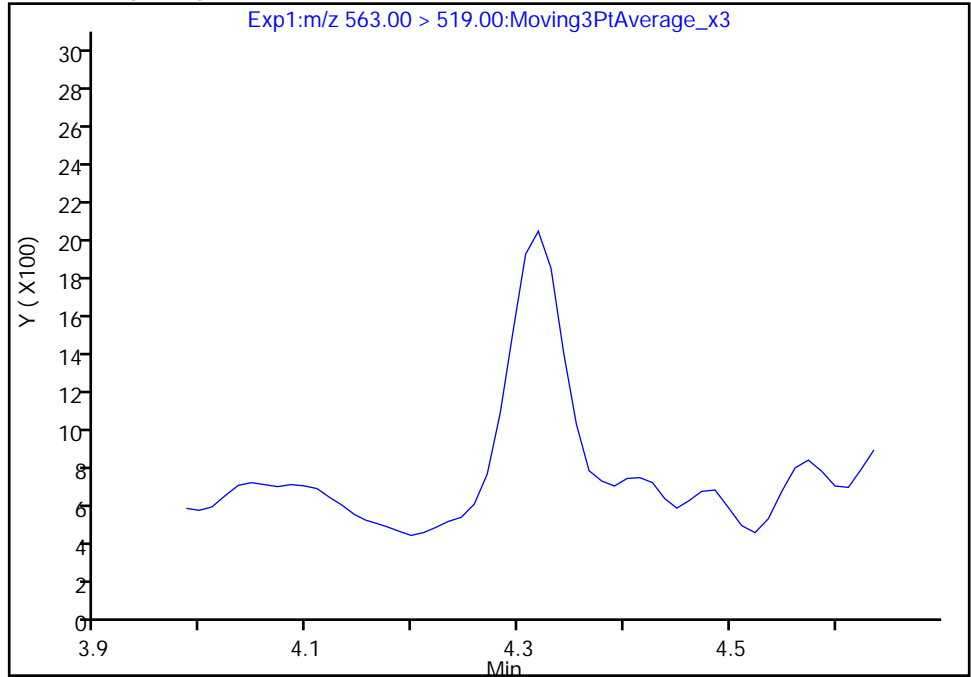
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

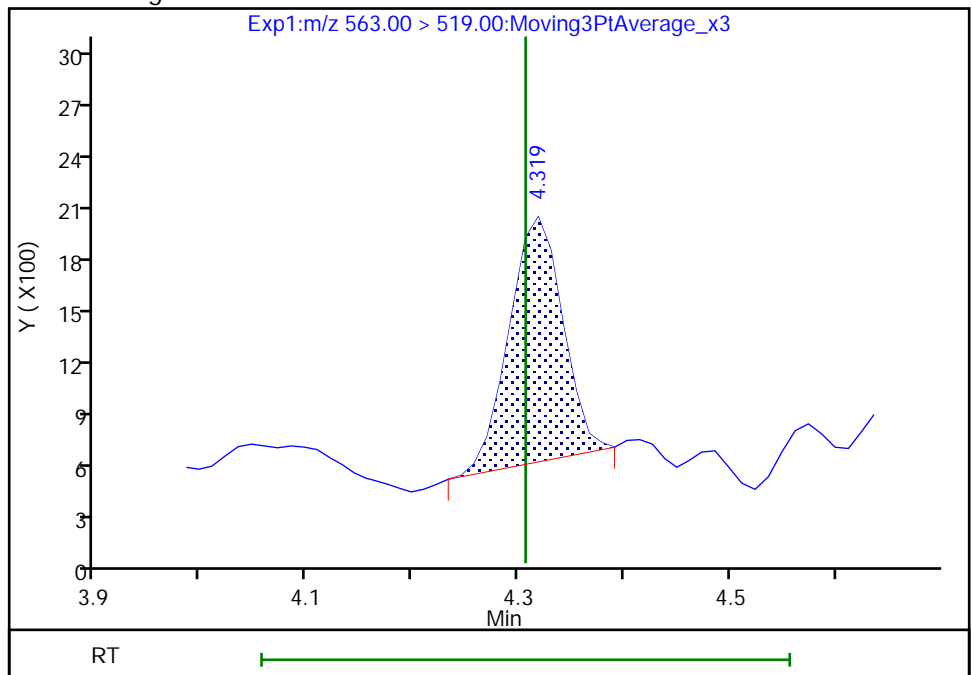
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 4787  
Amount: 0.132884  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:17:57

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

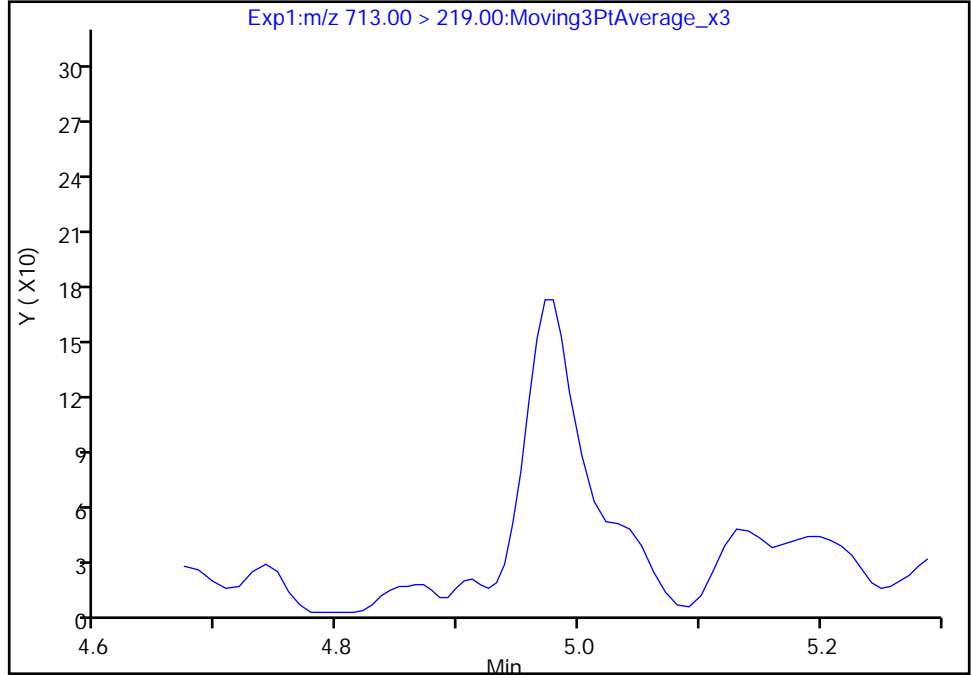
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

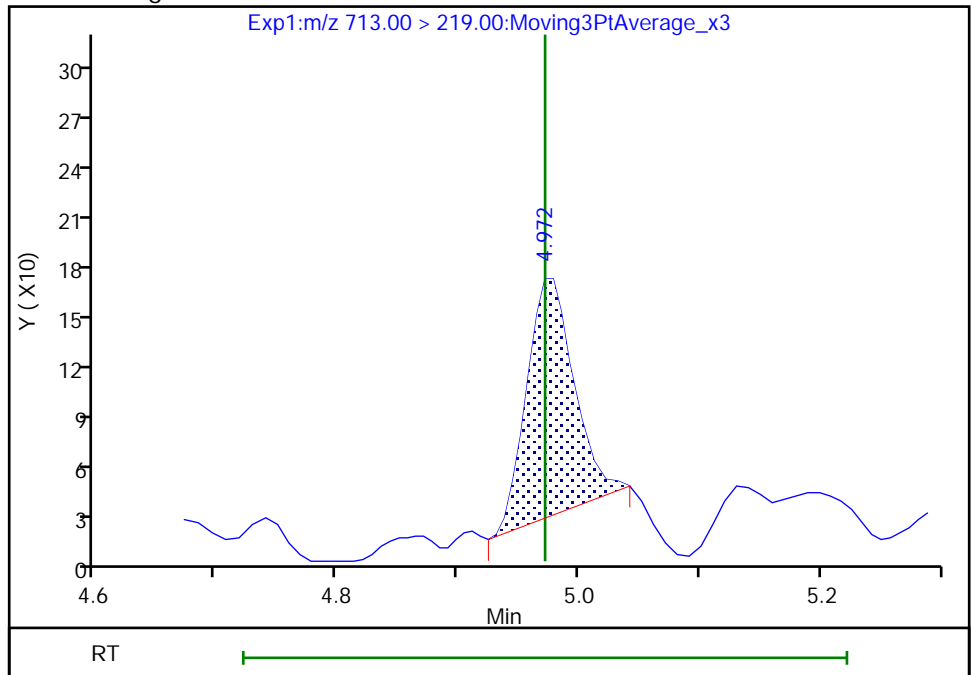
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 386  
Amount: 0.067486  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:18:46  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

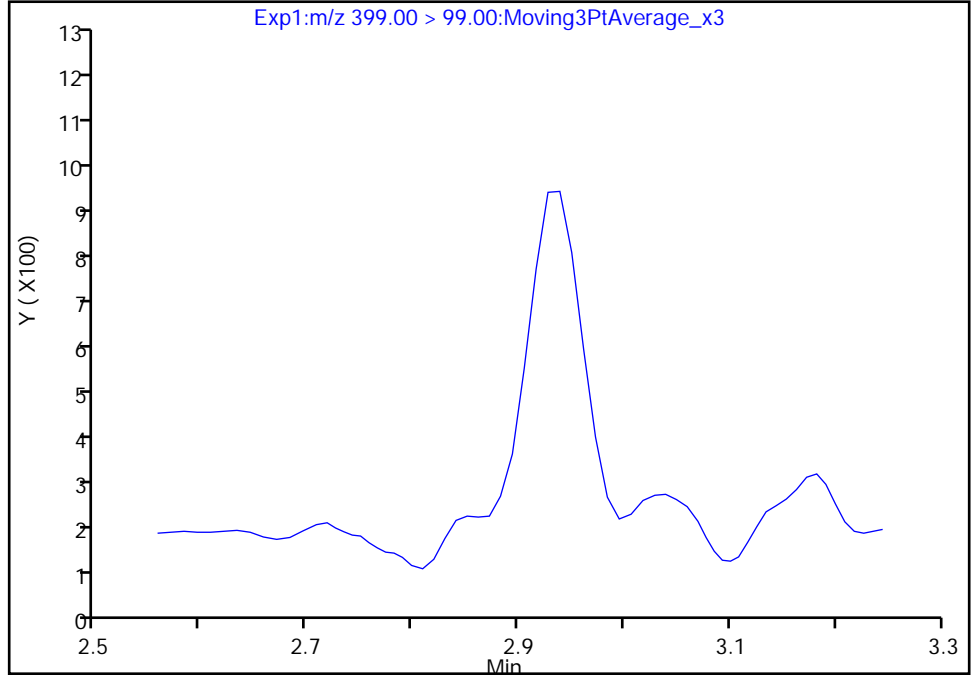
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

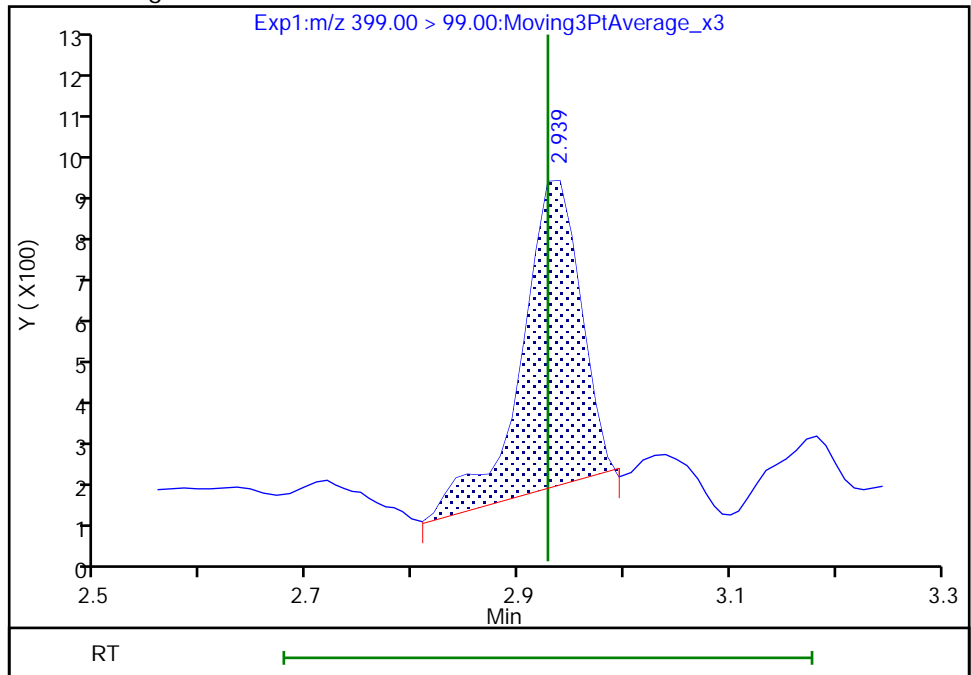
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 2784  
Amount: 0.153239  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:15:48  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

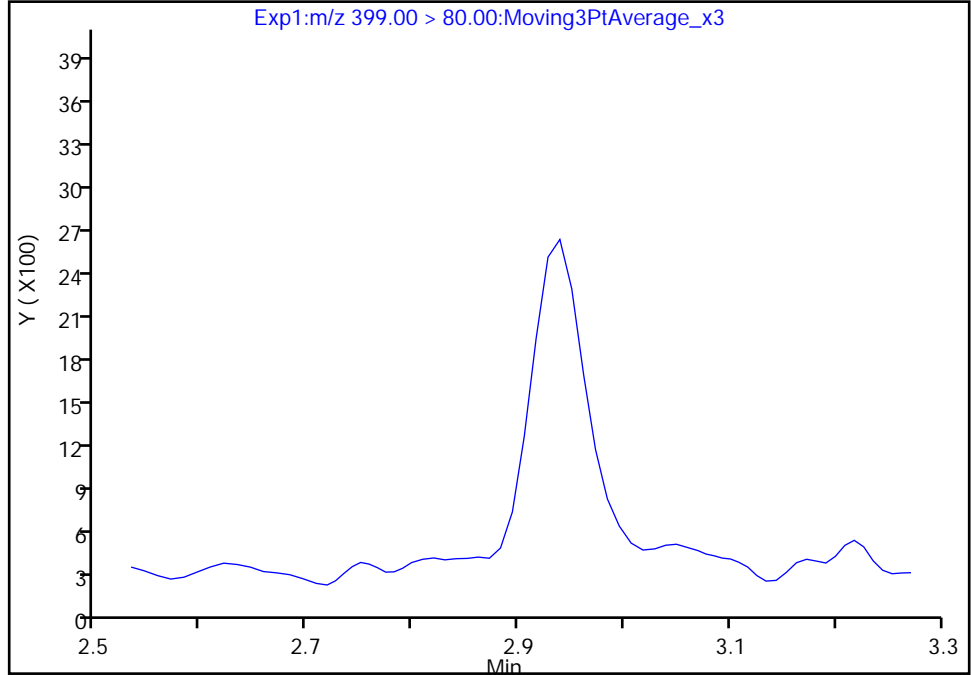
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

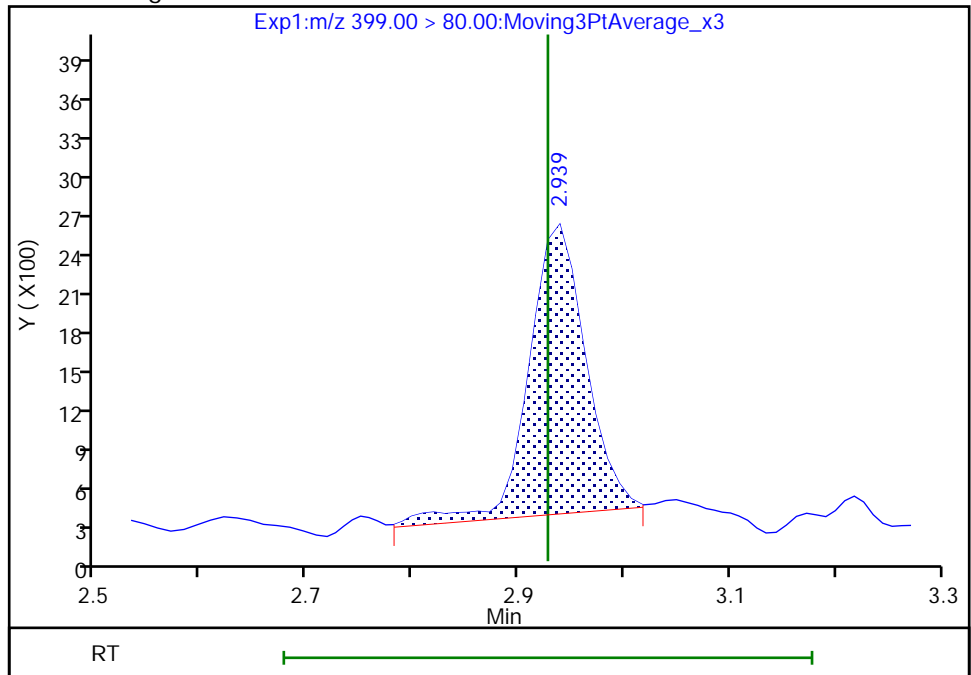
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 8337  
Amount: 0.153239  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:15:48

Audit Action: Manually Integrated

Audit Reason: Assign Peak



Euofins TestAmerica, Burlington

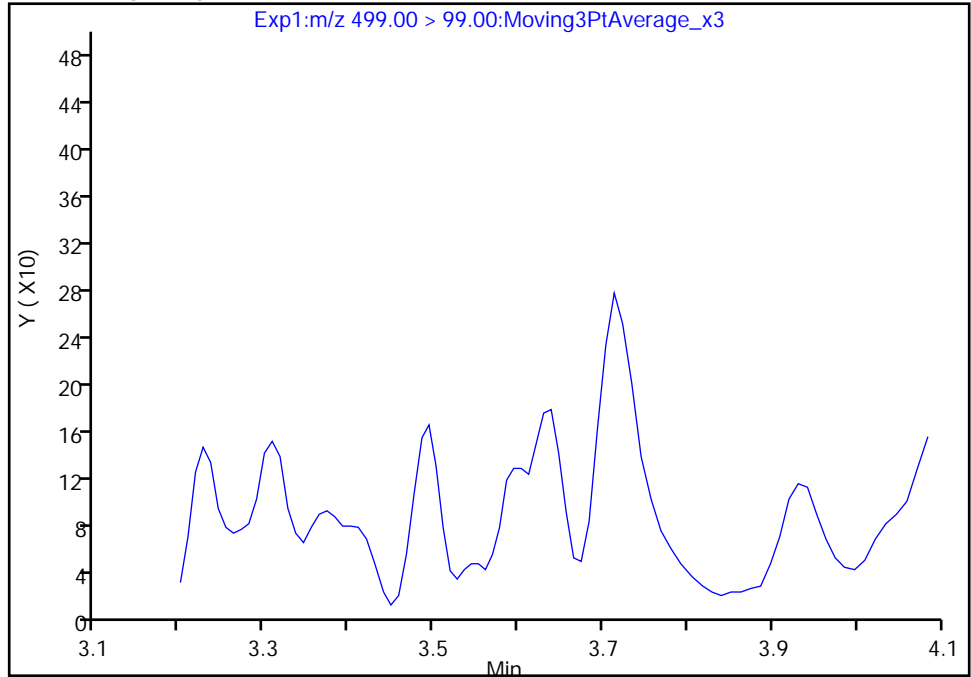
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

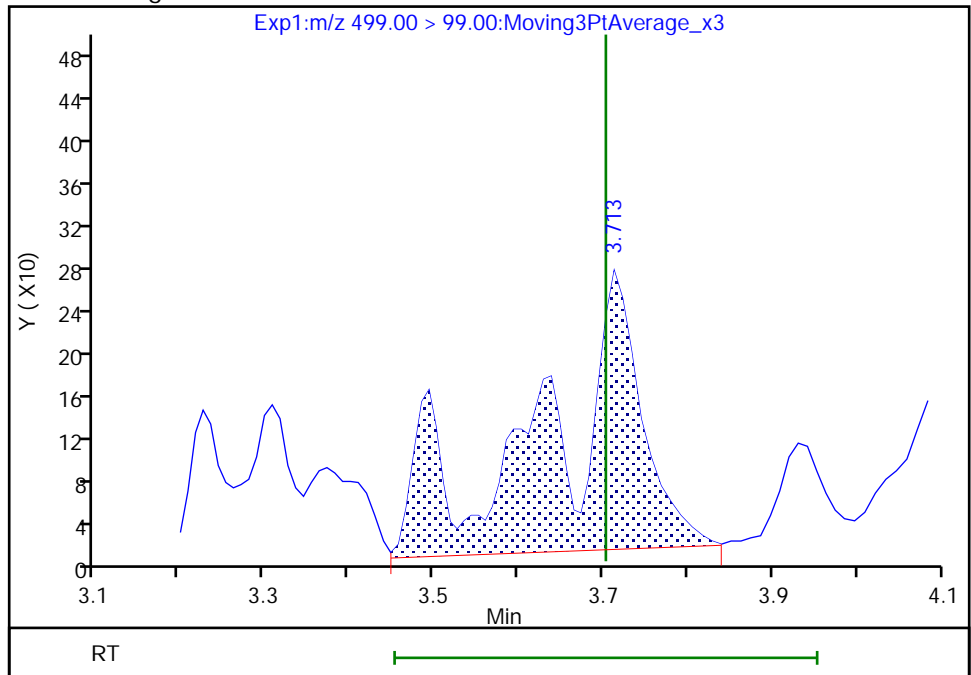
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.71  
Area: 2065  
Amount: 0.156072  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:16:23  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

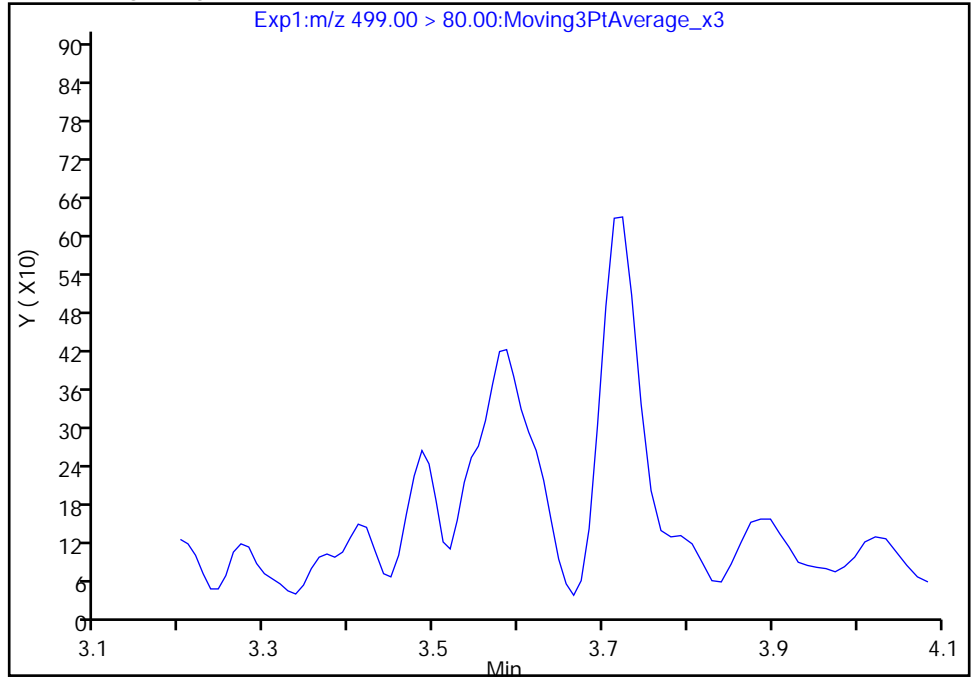
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

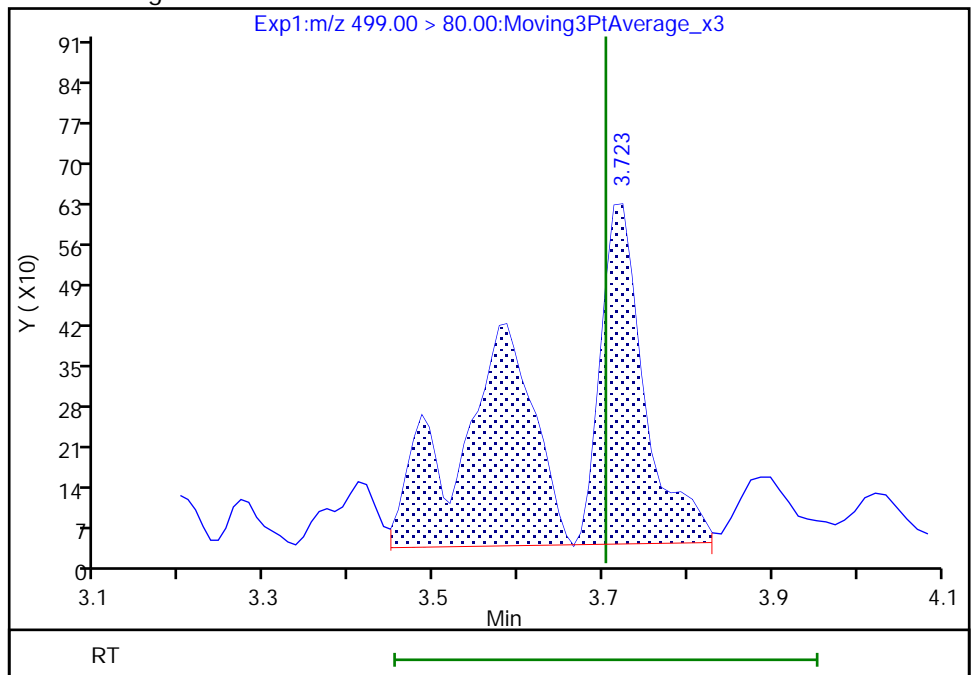
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.72  
Area: 4587  
Amount: 0.156072  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:16:56

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

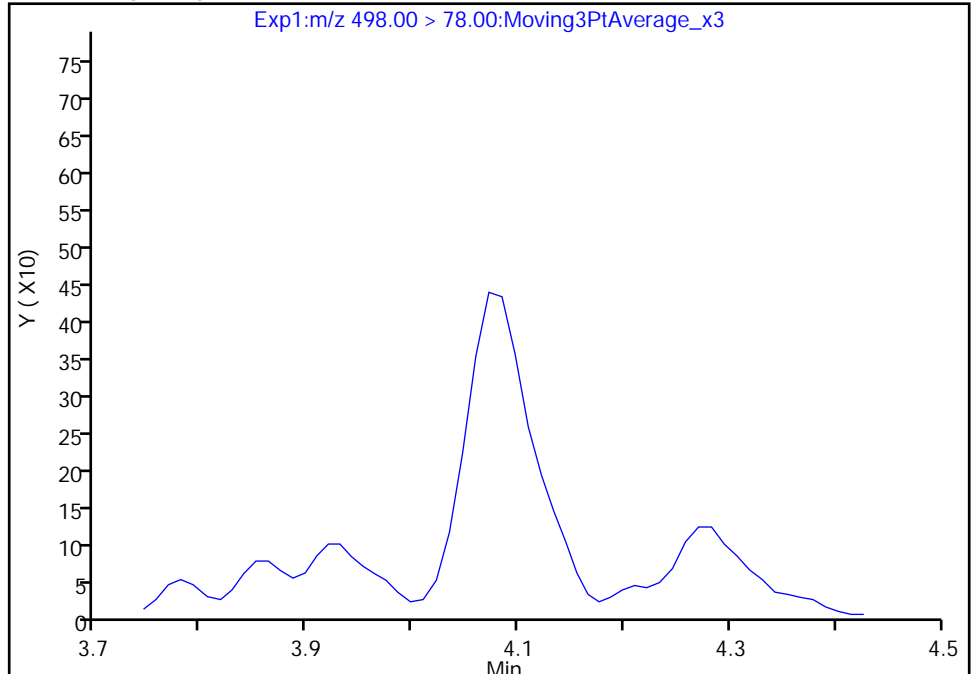
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

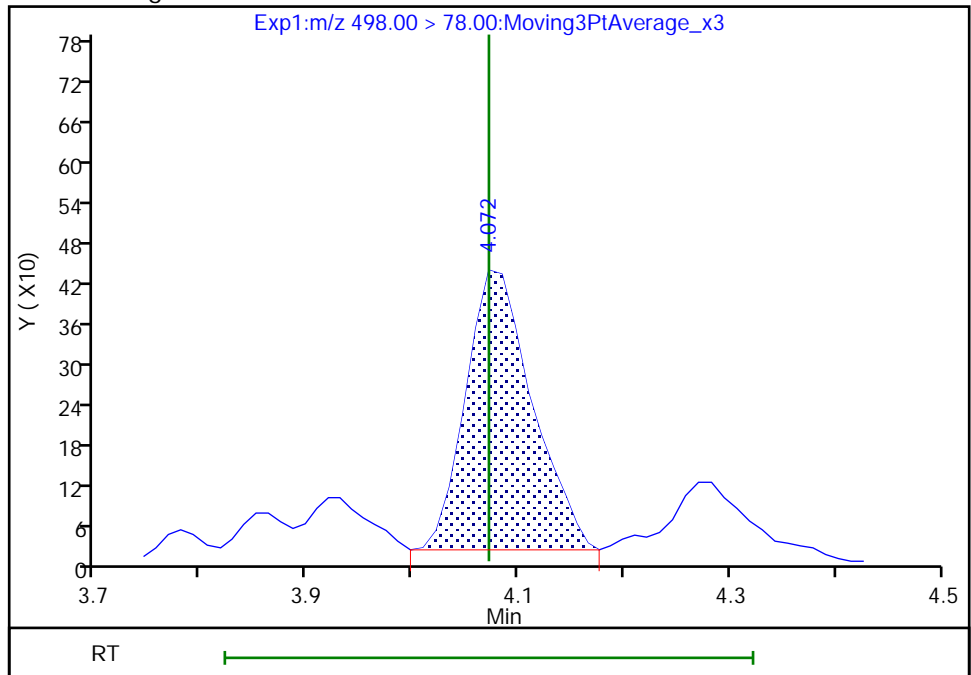
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.07  
Area: 1828  
Amount: 0.040291  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:17:35  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

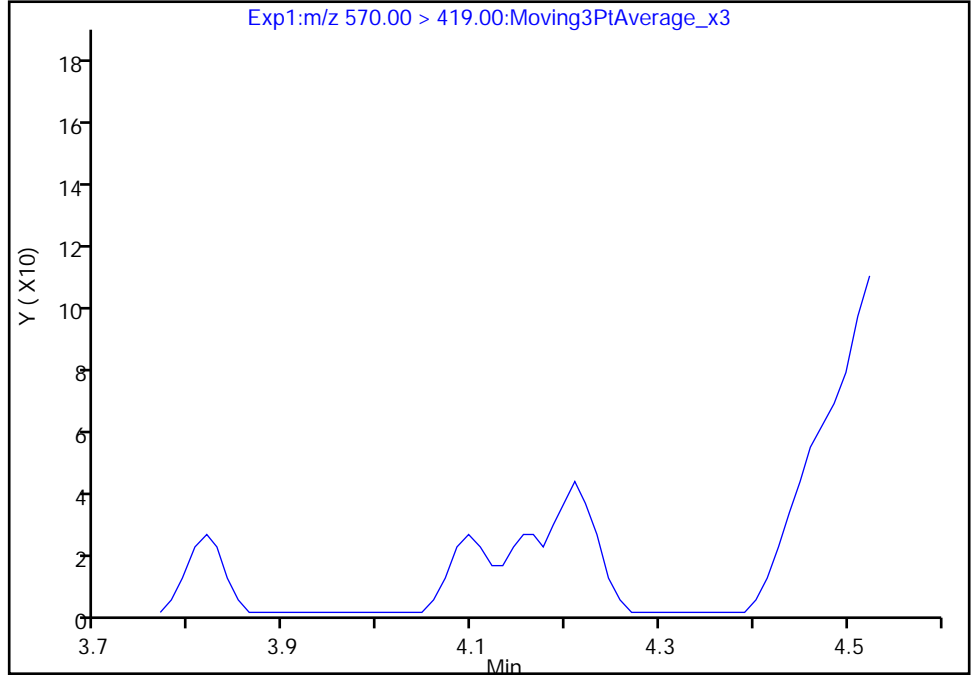
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

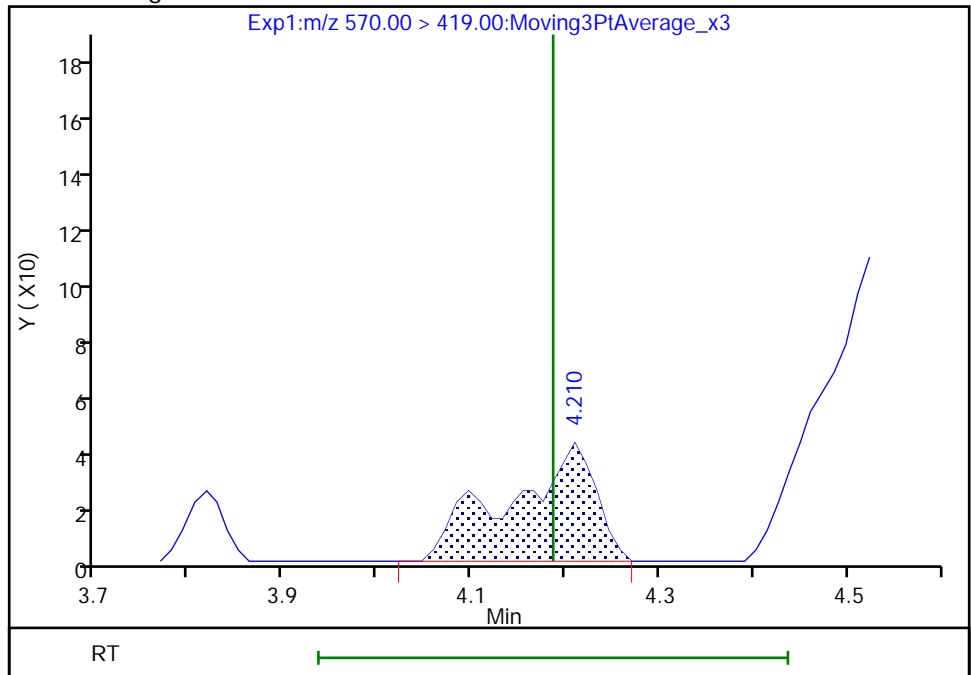
Not Detected  
Expected RT: 4.19

Processing Integration Results



Manual Integration Results

RT: 4.21  
Area: 266  
Amount: 0.076496  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:17:42  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

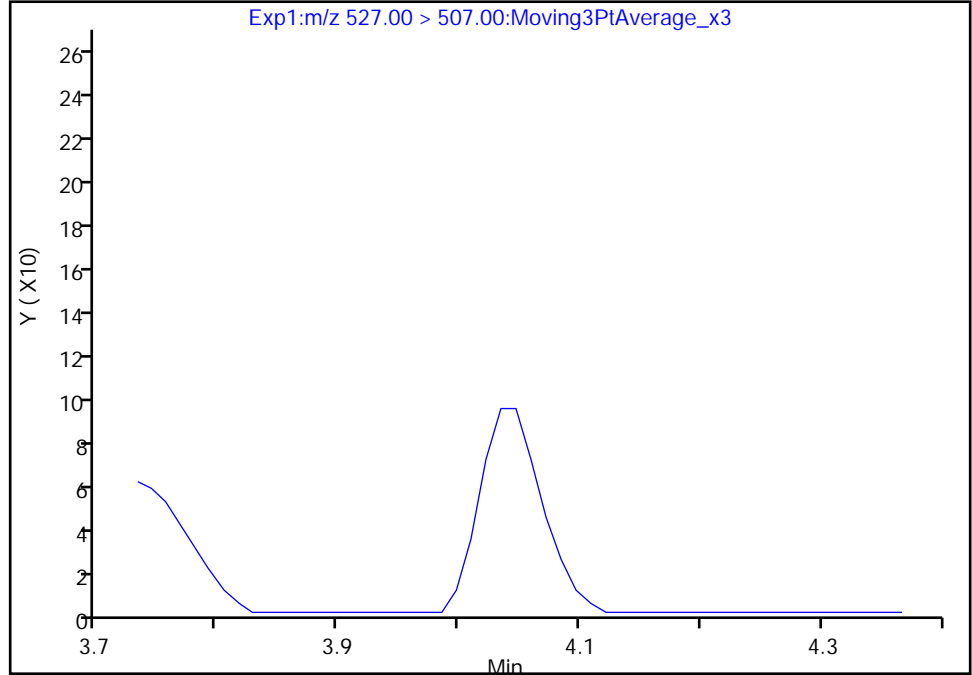
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E015.d  
Injection Date: 02-Aug-2019 05:41:52 Instrument ID: LC812  
Lims ID: 480-156213-F-14-A Lab Sample ID: 200-156213-14  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 15  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

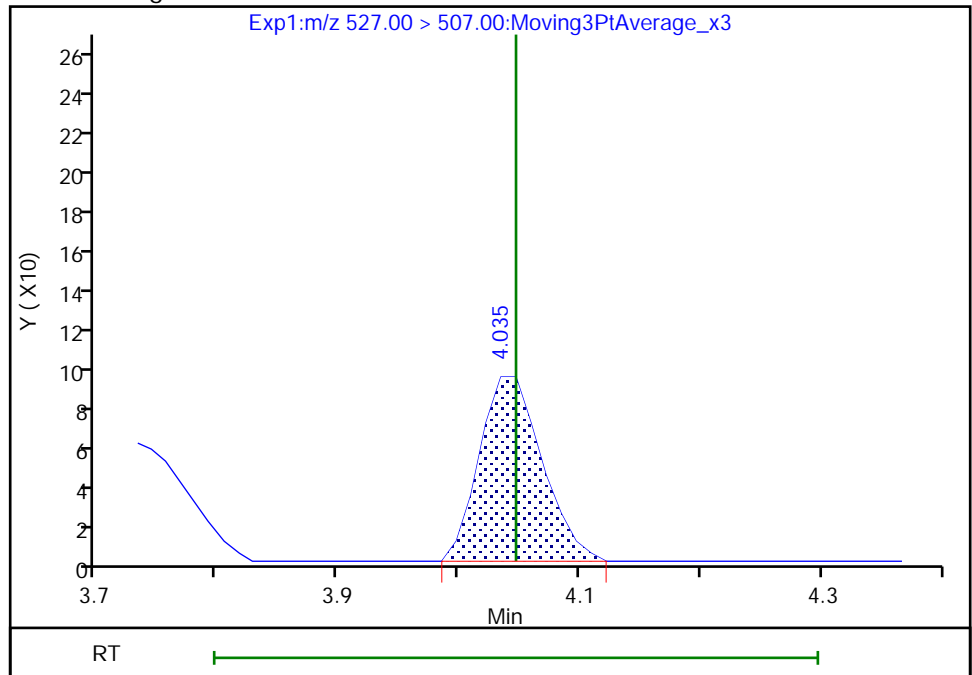
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.03  
Area: 332  
Amount: 0.029866  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:17:26  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW15B Lab Sample ID: 480-156213-15  
 Matrix: Water Lab File ID: SC080119E018.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 09:30  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 283.6(mL) Date Analyzed: 08/02/2019 06:06  
 Con. Extract Vol.: 0.5(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: C-18 ID: 4.6(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.4	J	1.8	0.88
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	0.56
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.67
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	0.89	J	1.8	0.56
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.68
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.47
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.52
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.53
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.81
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.72	J	1.8	0.43
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.71
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.84
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.79
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.54
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.8	8.8
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		18	1.5
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	18	1.3
27619-97-2	6:2 FTS	ND		18	4.1
39108-34-4	8:2 FTS	ND		18	2.6

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW15B Lab Sample ID: 480-156213-15  
 Matrix: Water Lab File ID: SC080119E018.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 09:30  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 283.6(mL) Date Analyzed: 08/02/2019 06:06  
 Con. Extract Vol.: 0.5(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: C-18 ID: 4.6(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	69		25-150
STL00992	13C4 PFBA	81		25-150
STL01893	13C5 PFPeA	87		25-150
STL00993	13C2 PFHxA	88		50-150
STL01892	13C4 PFHpA	96		50-150
STL00990	13C4 PFOA	91		50-150
STL00995	13C5 PFNA	86		50-150
STL00996	13C2 PFDA	90		50-150
STL00997	13C2 PFUnA	85		50-150
STL00998	13C2 PFDoA	82		50-150
STL02116	13C2 PFTeDA	64		50-150
STL02337	13C3 PFBS	92		50-150
STL00994	18O2 PFHxS	94		50-150
STL00991	13C4 PFOS	86		50-150
STL02118	d3-NMeFOSAA	68		50-150
STL02117	d5-NEtFOSAA	68		50-150
STL02279	M2-6:2 FTS	105		25-150
STL02280	M2-8:2 FTS	101		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
 Lims ID: 480-156213-F-15-A  
 Client ID: 356023-MW15B  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 06:06:01 ALS Bottle#: 11 Worklist Smp#: 18  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-15-A  
 Misc. Info.: 200-0037095-018 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:27:55  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.507	3151356	40.7	81.4	10739	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.717	1.699	0.018	1.005	47247	0.8134		8.2		M
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.613	3148183	43.3	86.5	7677	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	18063	0.2965		1.0	
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.621	3067845	42.9	92.3	601656	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	27394	0.4084	Target=1.90	31.0	
298.90 > 99.00	2.093	2.093	0.0	1.000	14610		1.88(0.95-2.85)	16.8		
D 7 13C2 PFHxA	315.00 > 270.00	2.471	2.459	0.012	0.733	3195109	44.2	88.4	7681	
6 Perfluorohexanoic acid	313.00 > 269.00	2.471	2.459	0.012	1.000	18333	0.2786	Target=13.23	5.2	
313.00 > 119.00	2.471	2.459	0.012	1.000	2261		8.11(6.61-19.84)	3.2		
D 11 18O2 PFHxS	403.00 > 84.00	2.939	2.916	0.023	0.872	1859296	44.4	93.9	8245	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.872	3413821	48.2	96.5	7627	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.939	2.928	0.011	1.000	12933	0.2497	Target=3.37	14.4	M
399.00 > 99.00	2.939	2.928	0.011	1.000	3047		4.24(1.69-5.06)	4.2		M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.939	2.928	0.011	1.000	9974	0.1560	Target=3.76	2.9	
363.00 > 169.00	2.939	2.928	0.011	1.000	2522		3.95(1.88-5.65)	12.8		



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.354	3.335	0.019	0.995	434367	49.9		105	1077	
13 1H,1H,2H,2H-perfluorooctanesulfonyl										M
427.00 > 407.00	3.354	3.336	0.018	1.000	7749	0.4941		24.8		M
D 14 13C4 PFOA										
417.00 > 372.00	3.372	3.344	0.028	1.000	3384993	45.3		90.6	8864	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.354	3.345	0.009	0.900	2479	0.0683	Target=4.80	11.3		M
449.00 > 99.00	3.354	3.345	0.009	0.900	844		2.94(2.40-7.20)	4.0		M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.372	3.355	0.017	1.000	37136	0.5041	Target=2.84	3.6		M
413.00 > 169.00	3.363	3.355	0.008	0.997	14465		2.57(1.42-4.25)	43.1		M
* 62 13C2 PFOA										
415.00 > 370.00	3.372	3.355	0.017		4110045	50.0			13221	
D 18 13C4 PFOS										
503.00 > 80.00	3.725	3.695	0.030	1.104	1439356	41.3		86.4	5858	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.725	3.703	0.022	1.000	6780	0.2379	Target=4.33	15.3		M
499.00 > 99.00	3.715	3.703	0.012	0.997	1522		4.45(2.16-6.49)	2.7		M
D 19 13C5 PFNA										
468.00 > 423.00	3.747	3.715	0.032	1.111	2947686	43.2		86.5	20590	
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.747	3.723	0.024	1.000	2901	0.0543	Target=8.15	1.4		RM
463.00 > 169.00	3.735	3.723	0.012	0.997	1072		2.71(4.08-12.23)	12.0		M
D 23 13C2 PFDA										
515.00 > 470.00	4.061	4.036	0.025	1.204	2465013	45.2		90.4	11401	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.061	4.036	0.025	1.204	389907	48.5		101	892	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.074	4.047	0.027	1.003	5407	0.1133	Target=9.58	2.6		
513.00 > 169.00	4.049	4.047	0.002	0.997	406		13.32(4.79-14.37)	4.2		M
25 1H,1H,2H,2H-perfluorodecanesulfonyl										M
527.00 > 507.00	4.061	4.047	0.014	1.000	1034	0.0950		11.3		M
D 21 13C8 FOSA										
506.00 > 78.00	4.086	4.061	0.025	1.212	2146776	34.3		68.5	4827	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.086	4.072	0.014	1.000	3552	0.0906		19.3		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.200	4.178	0.022	1.246	237936	34.2		68.3	2665	
28 N-methylperfluorooctanesulfonamide										M
570.00 > 419.00	4.212	4.187	0.025	1.003	704	0.1955		3.9		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.320	4.296	0.024	1.281	2122880	42.7		85.4	8862	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.320	4.307	0.013	1.000	5834	0.1601	Target=7.95	2.7		RM
563.00 > 169.00	4.332	4.307	0.025	1.003	1576		3.70(3.98-11.93)	10.5		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.332	4.308	0.024	1.285	264230	34.0		68.1	1295	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.344	4.319	0.025	1.003	553	0.1635		3.5		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.562	4.537	0.025	1.353	2193149	41.0		82.0	8461	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.778	4.760	0.018	1.047	4702	0.1168	Target=5.71	0.6		M
663.00 > 169.00	4.769	4.760	0.009	1.045	1042		4.51(2.85-8.56)	11.6		
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.965	0.014	1.476	2364494	32.1		64.2	7662	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.986	4.972	0.014	1.001	1117	0.1774	Target=1.02	12.6		
713.00 > 219.00	4.979	4.972	0.007	1.000	915		1.22(0.51-1.54)	16.1		M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d

Injection Date: 02-Aug-2019 06:06:01

Instrument ID: LC812

Lims ID: 480-156213-F-15-A

Lab Sample ID: 200-156213-15

Client ID: 356023-MW15B

Operator ID: lc812tech

ALS Bottle#: 11

Worklist Smp#: 18

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

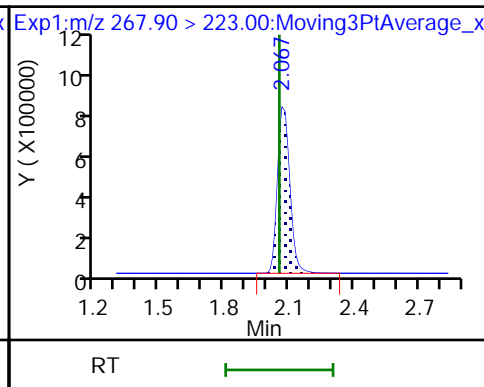
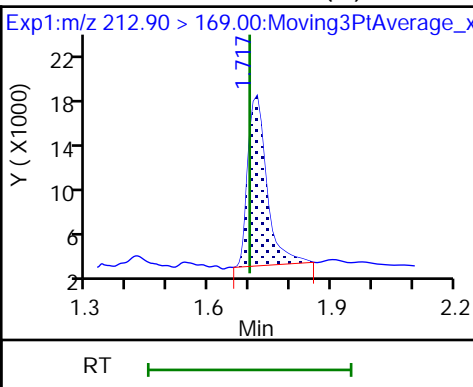
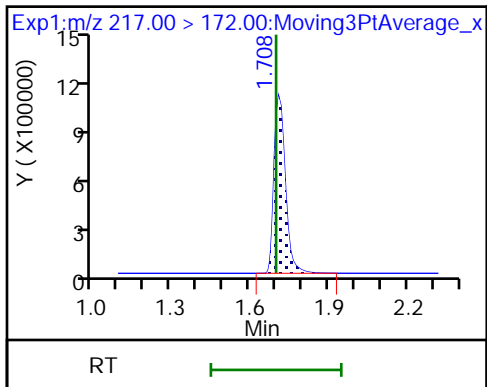
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

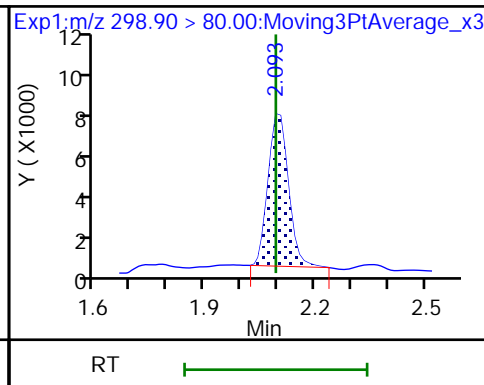
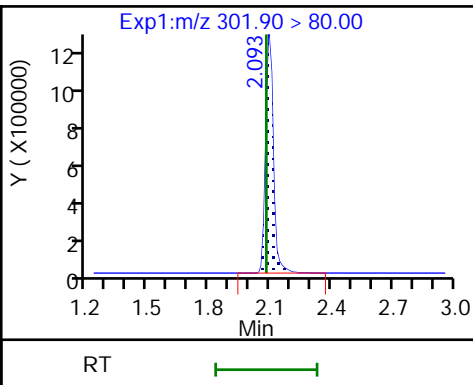
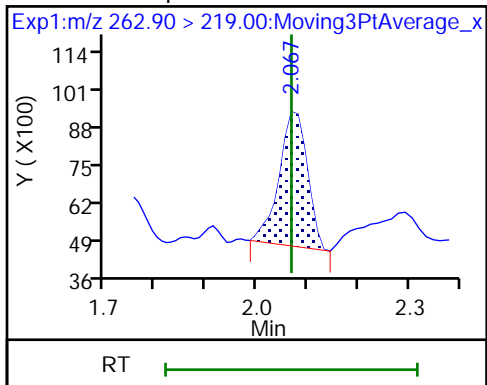
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

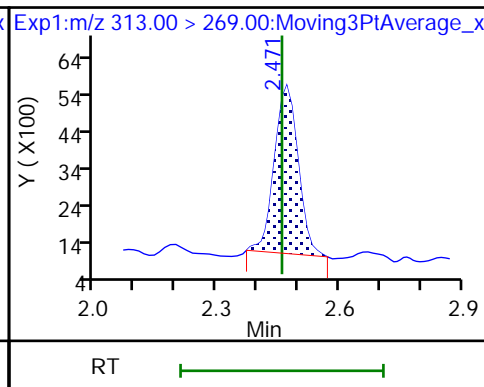
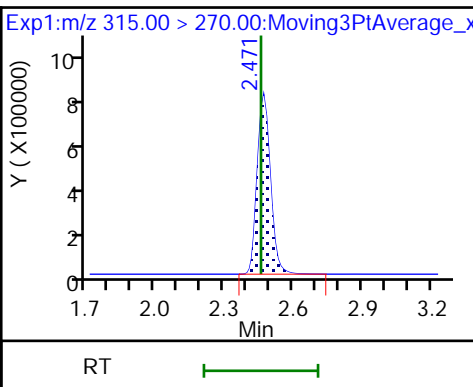
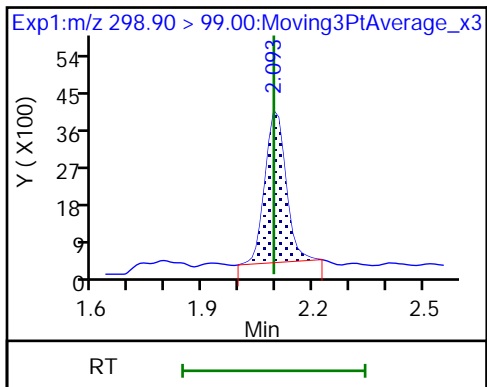
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

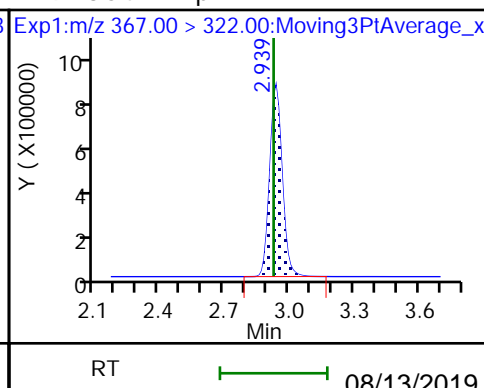
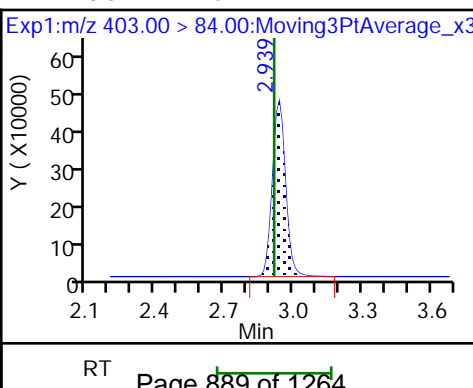
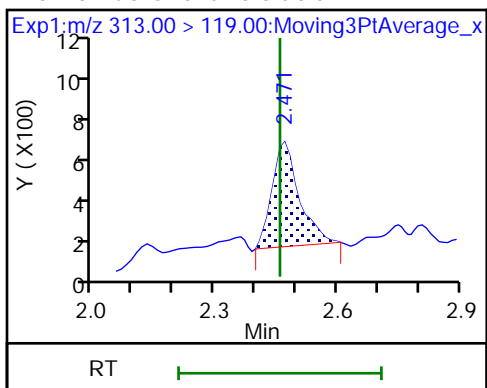
6 Perfluorohexanoic acid

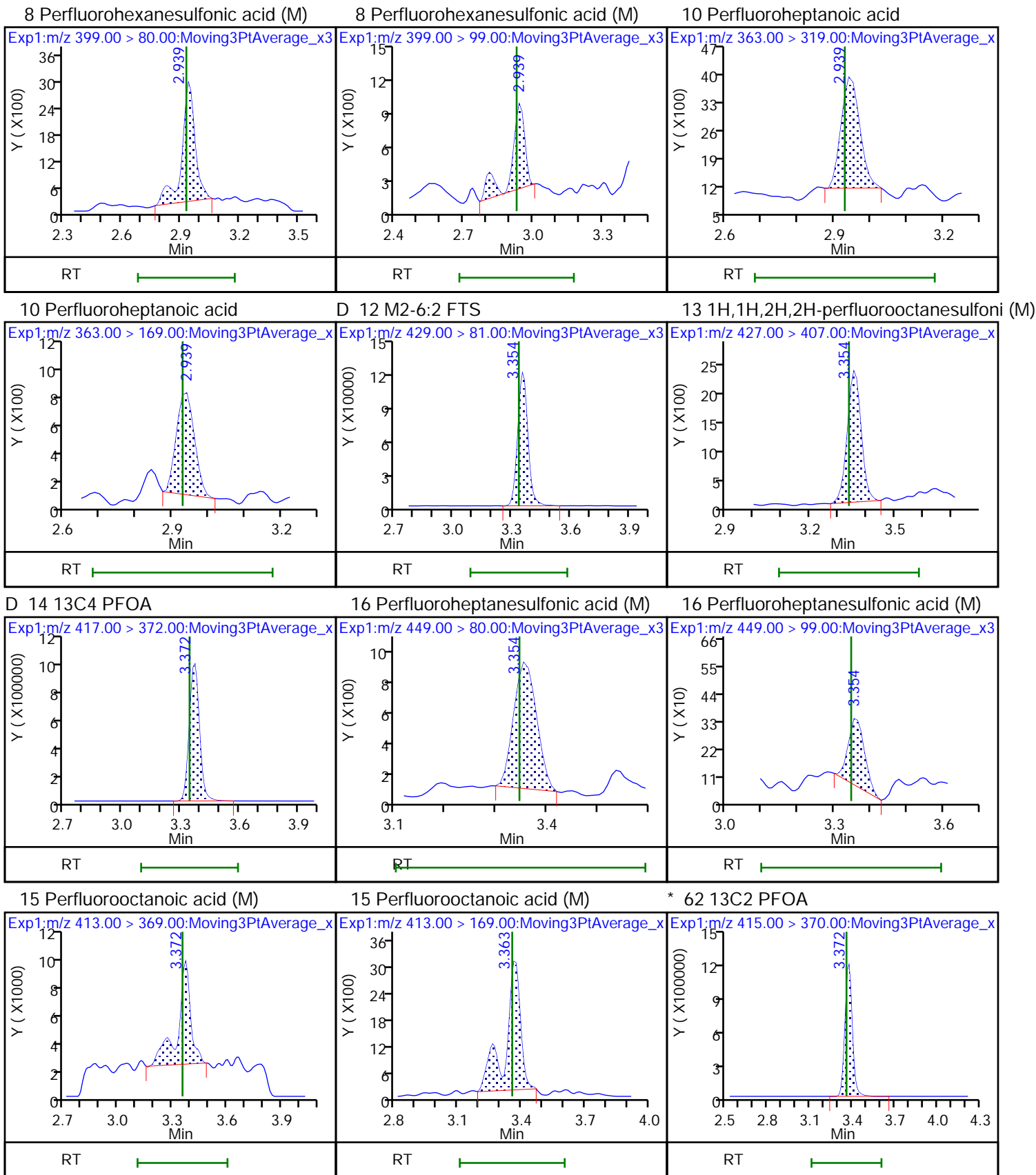


6 Perfluorohexanoic acid

D 11 18O2 PFHxS

D 9 13C4 PFHpA

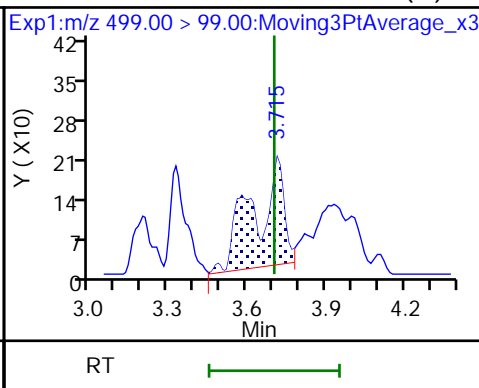
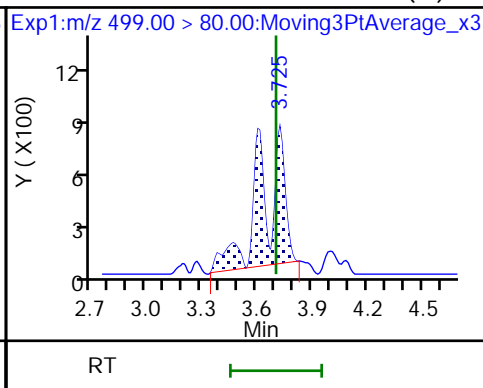
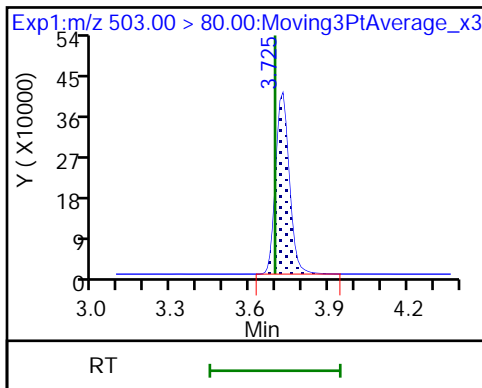




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

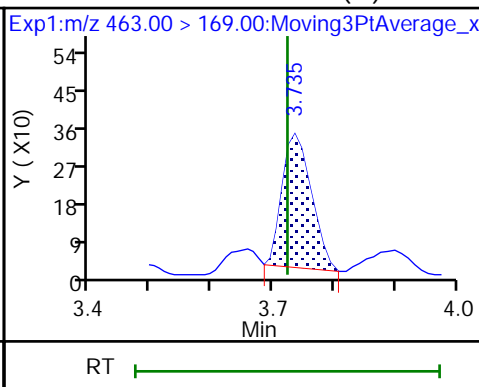
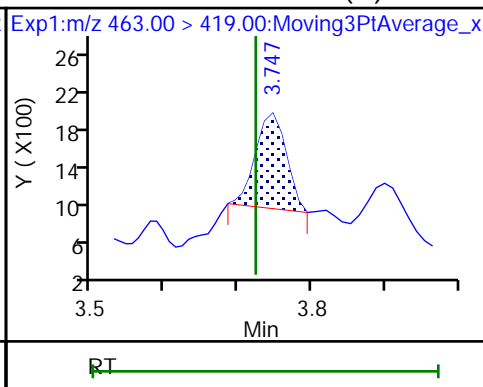
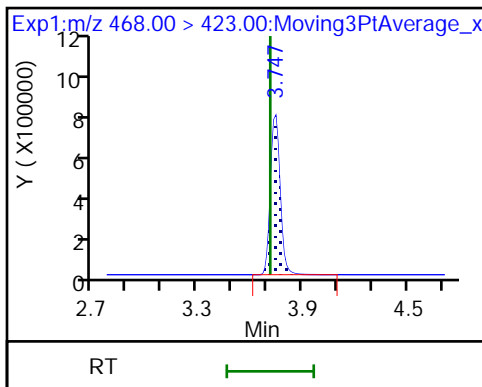
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

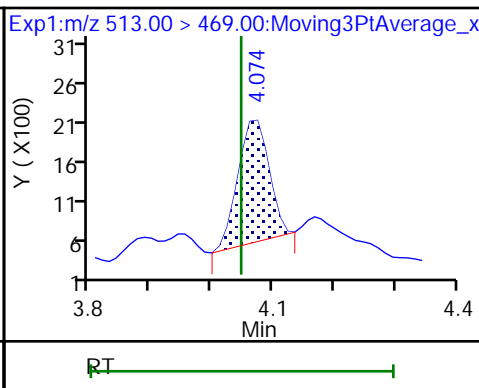
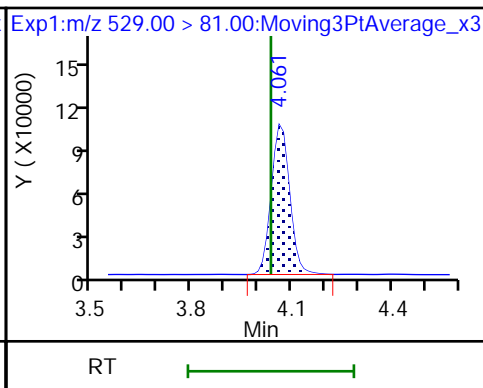
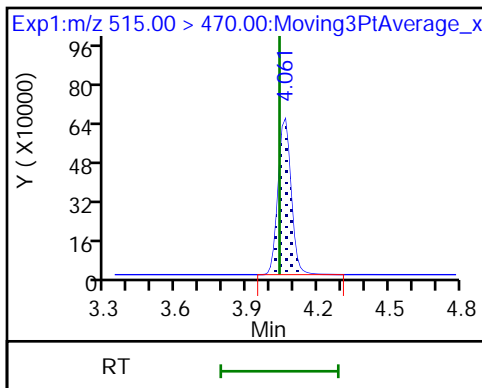
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

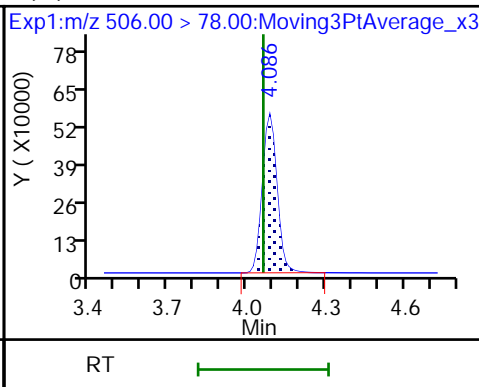
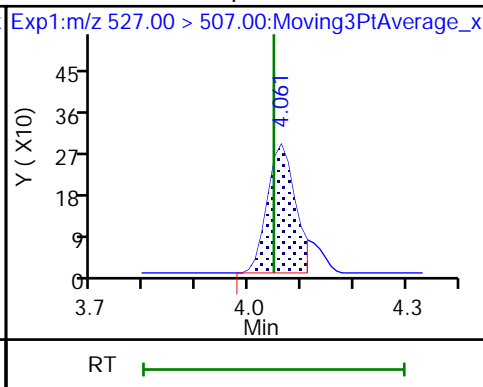
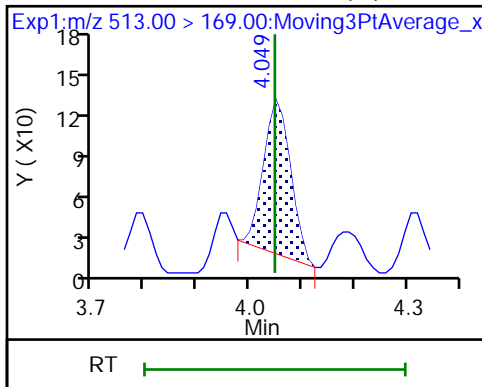
24 Perfluorodecanoic acid



24 Perfluorodecanoic acid (M)

25 1H,1H,2H,2H-perfluorodecanesulfonate (M)

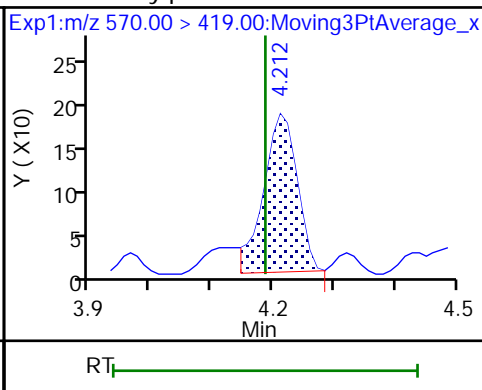
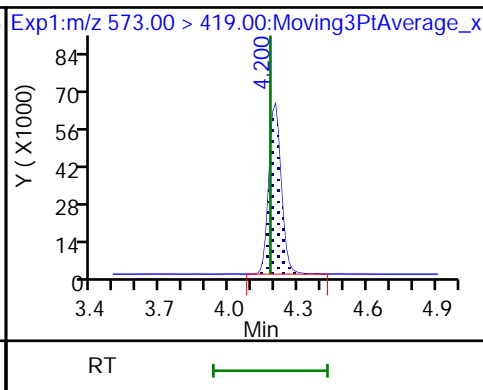
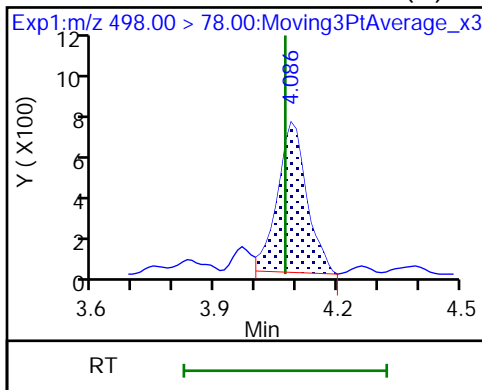
D 27 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

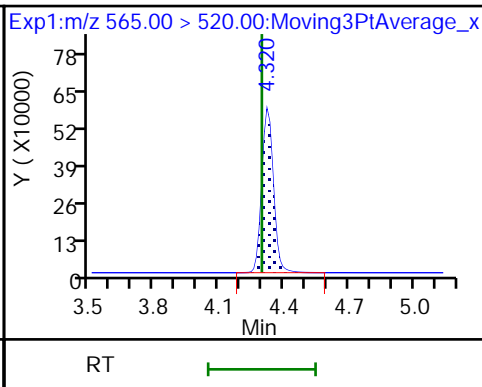
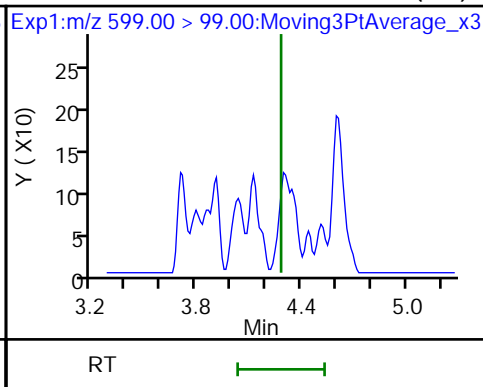
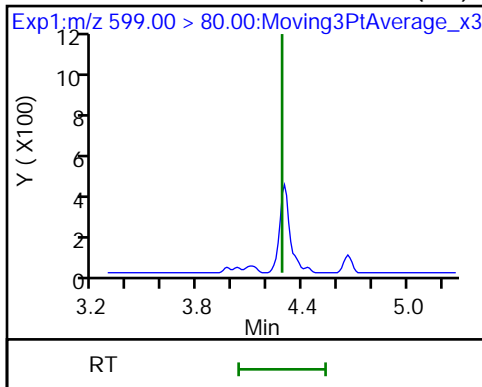
28 N-methylperfluorooctanesulfonamido (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

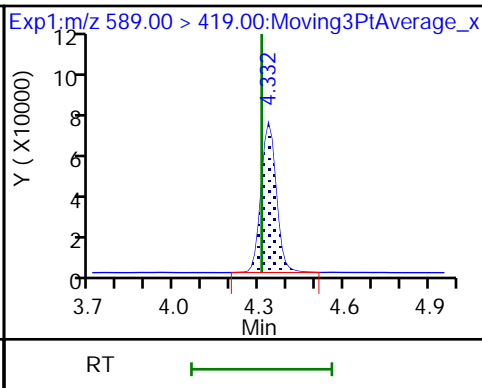
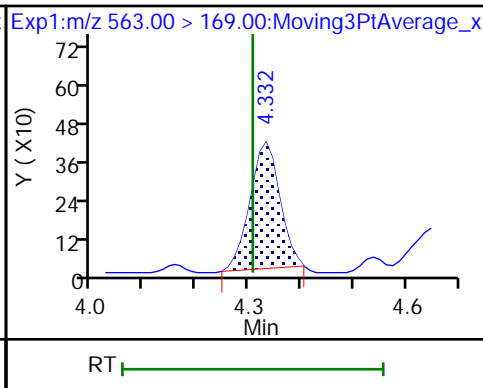
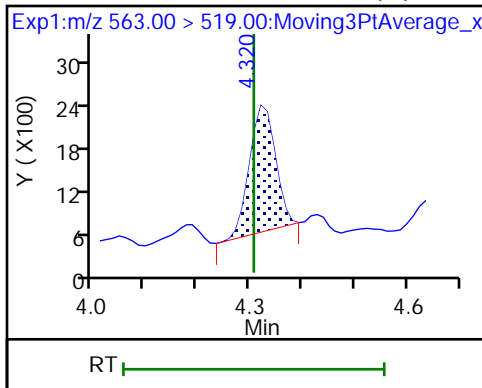
D 30 13C2 PFUa



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid

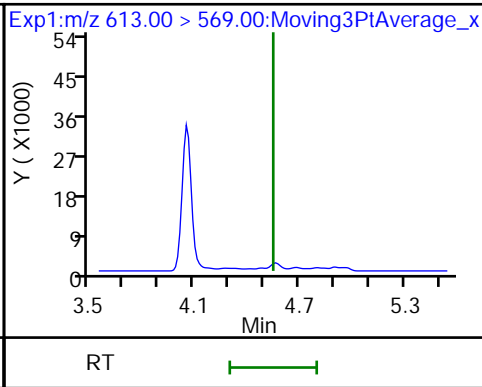
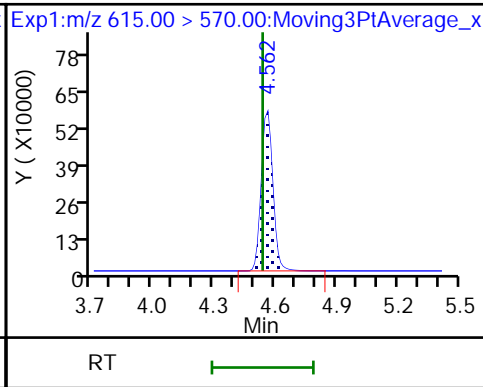
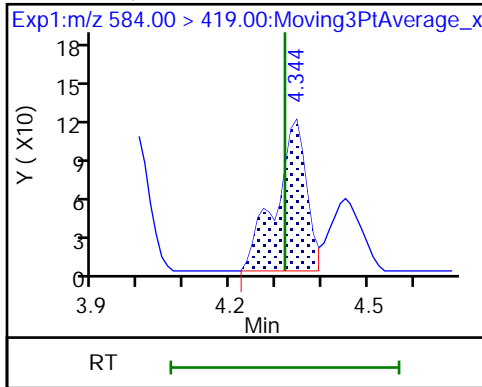
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (M)

D 36 13C2 PFDoA

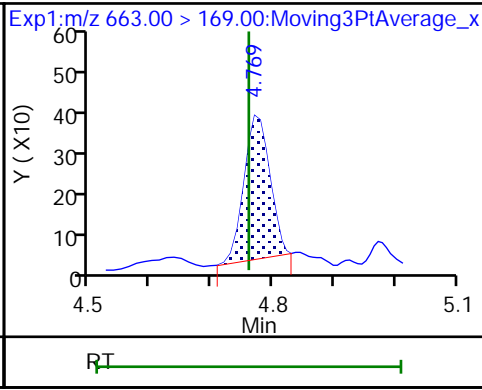
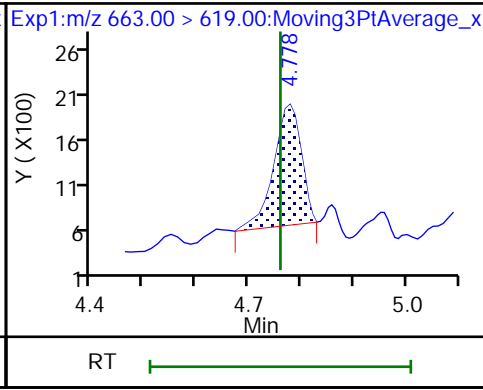
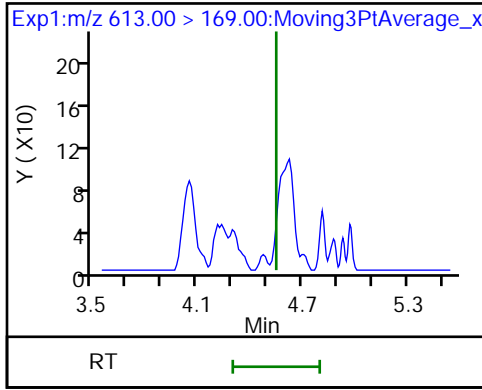
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (M)

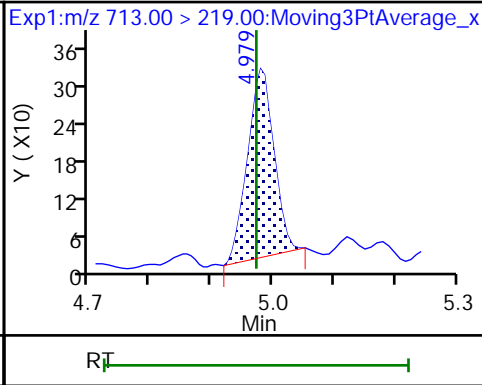
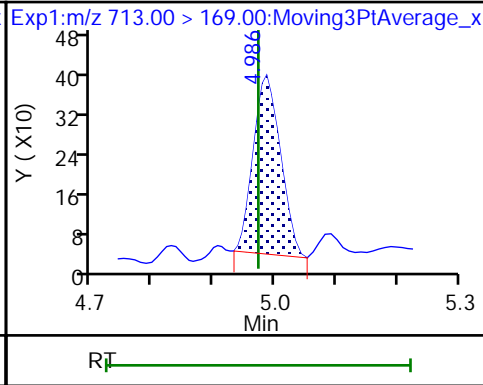
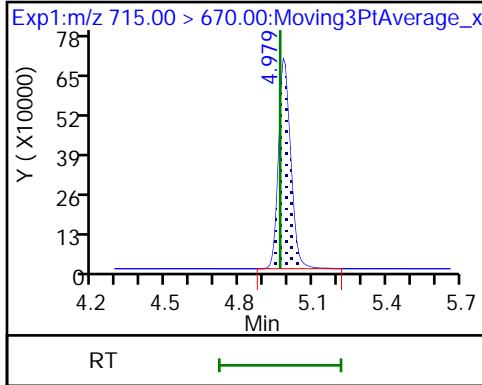
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

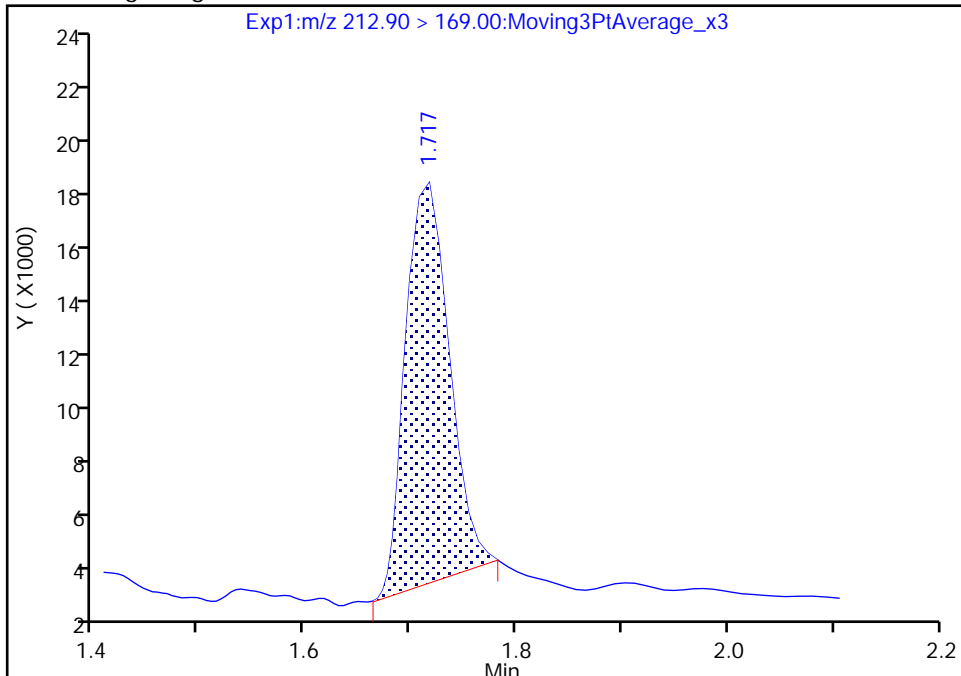
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Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

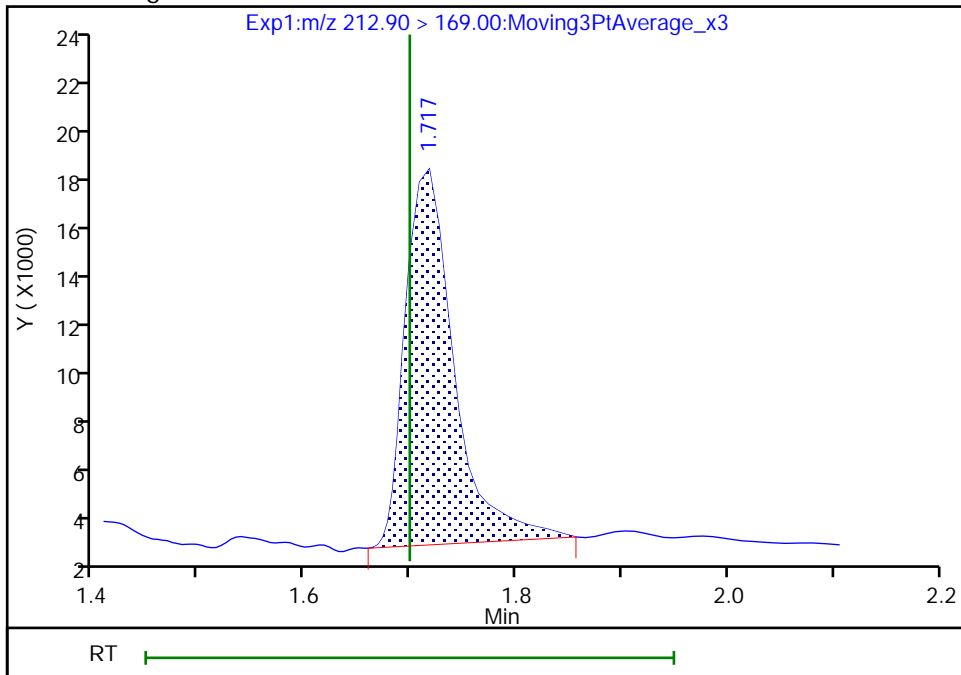
RT: 1.72  
Area: 40717  
Amount: 0.700941  
Amount Units: ng/ml

Processing Integration Results



RT: 1.72  
Area: 47247  
Amount: 0.813354  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:22:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

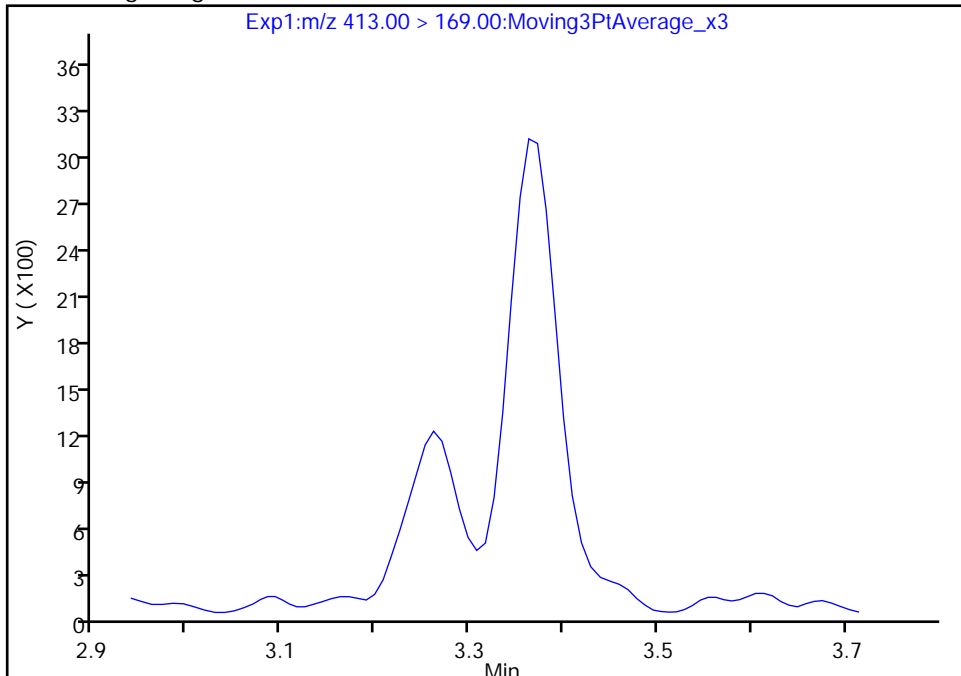
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

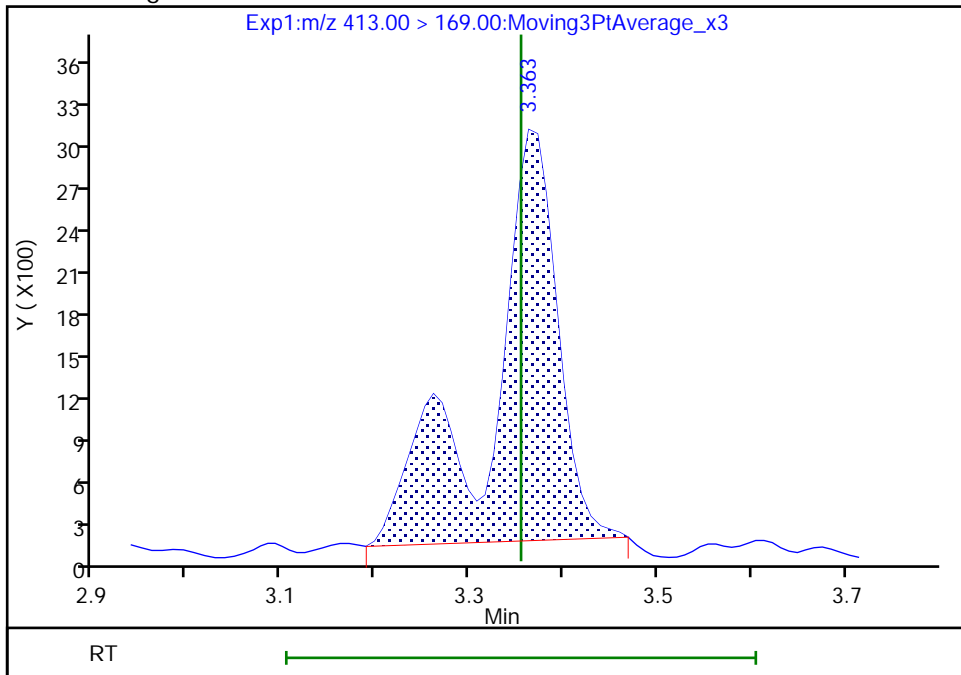
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.36  
Area: 14465  
Amount: 0.504113  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:23:53  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

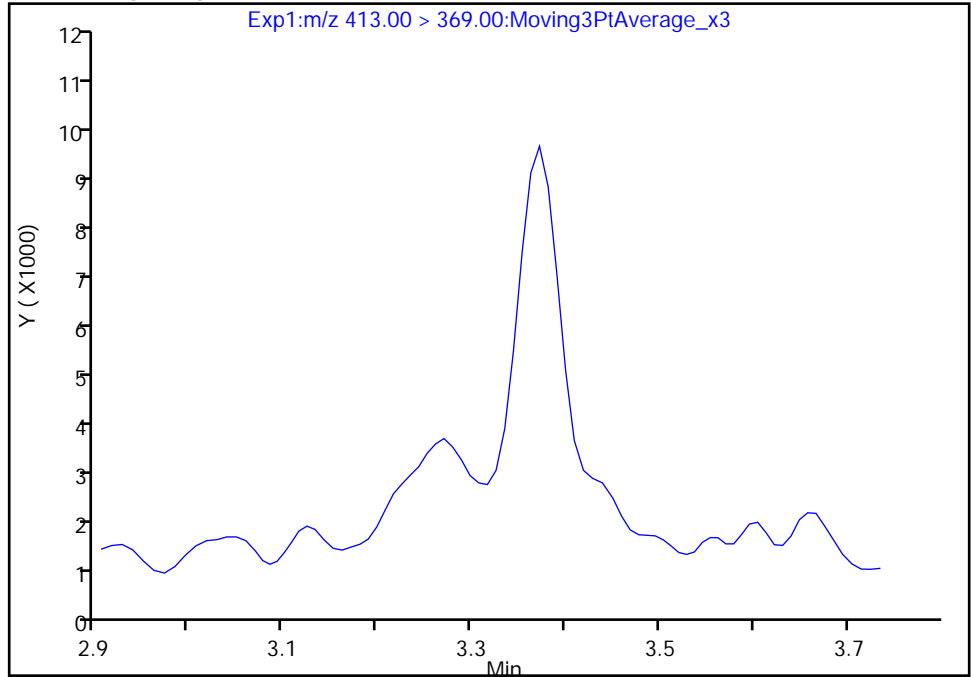
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

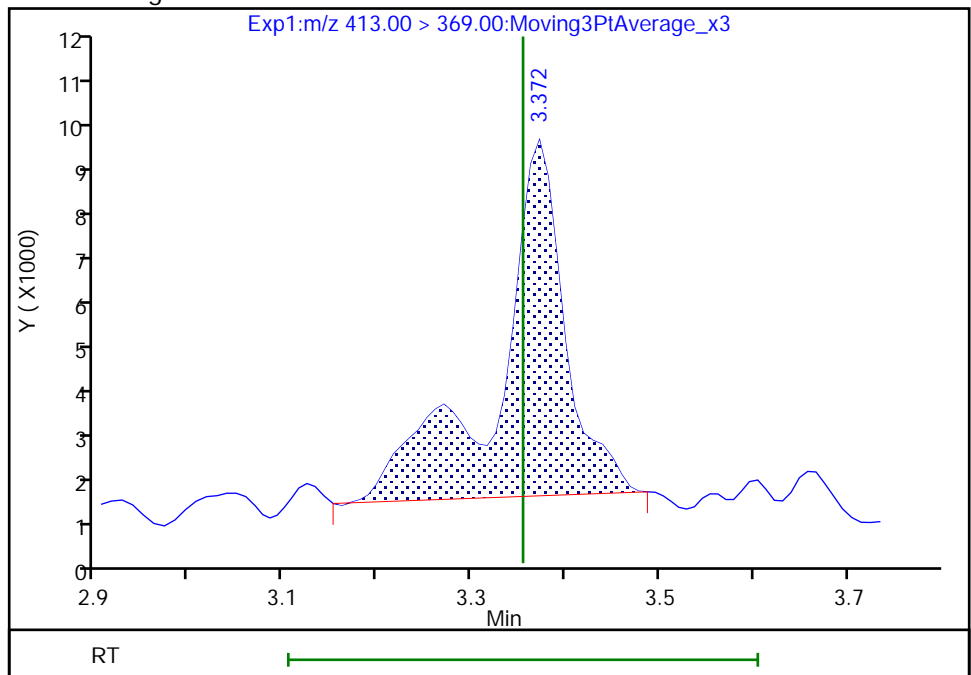
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.37  
Area: 37136  
Amount: 0.504113  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

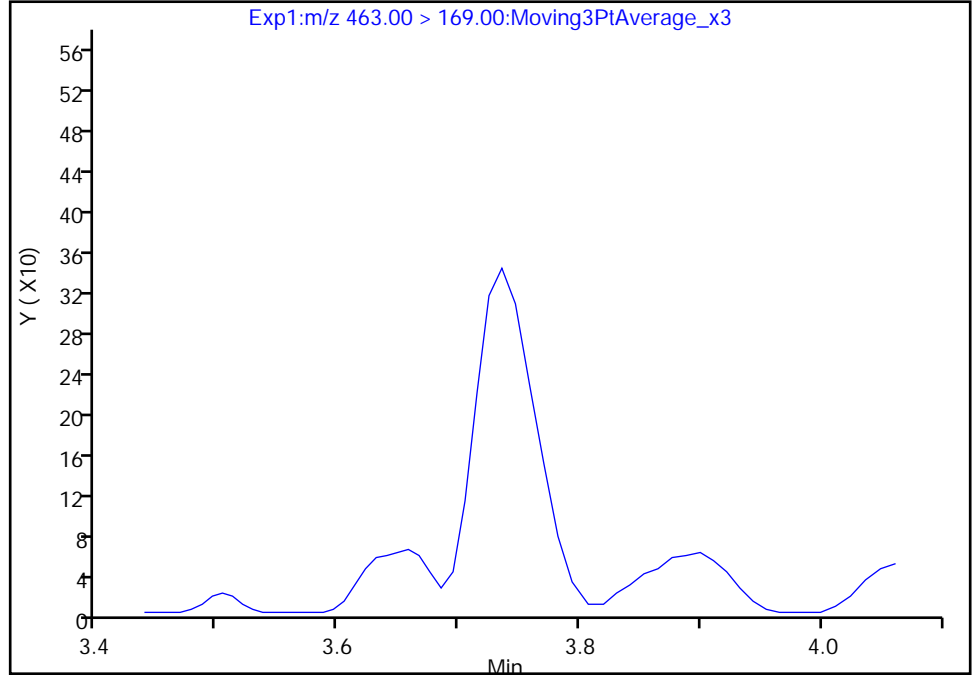
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

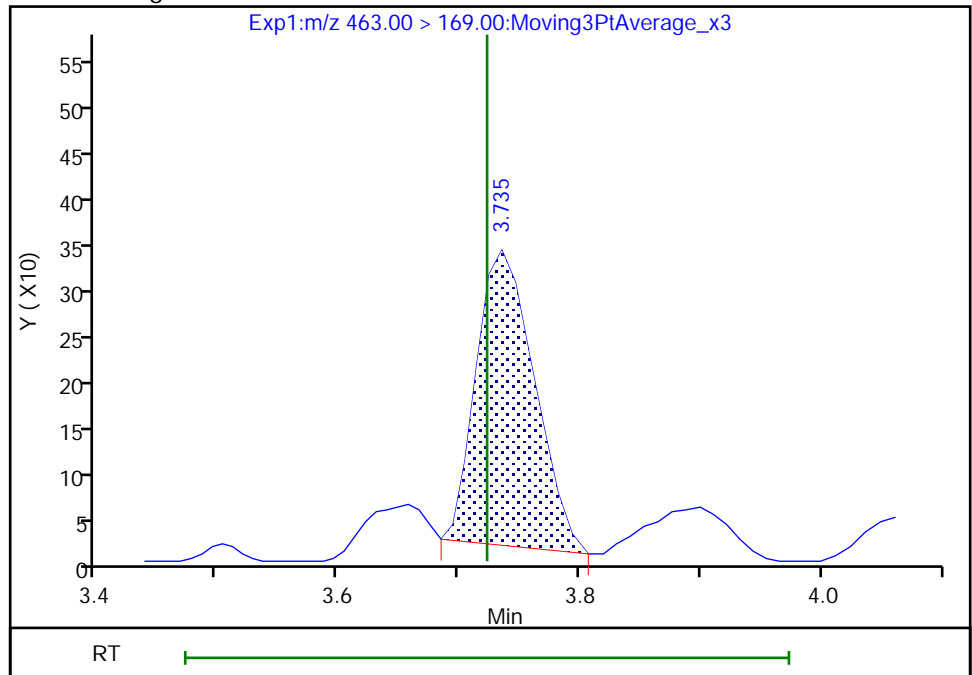
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.74  
Area: 1072  
Amount: 0.054320  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:25:03

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

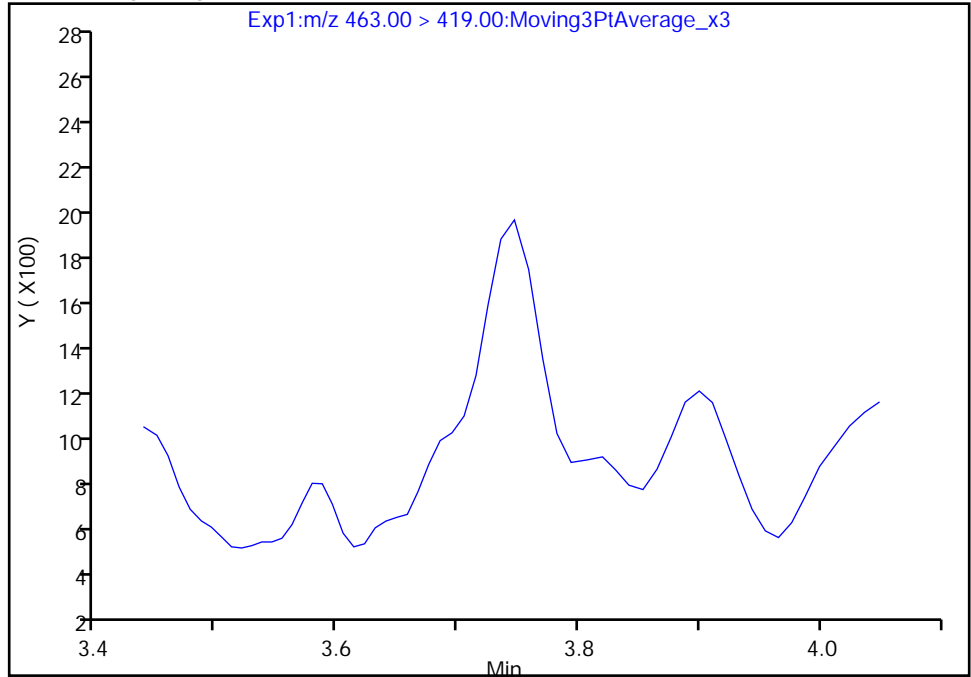
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

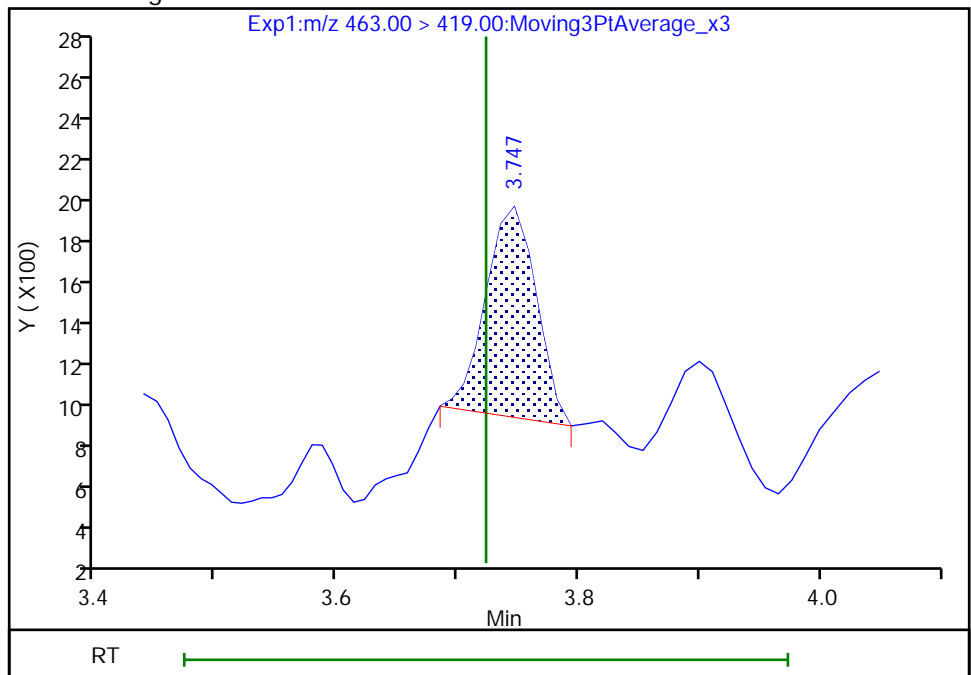
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.75  
Area: 2901  
Amount: 0.054320  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

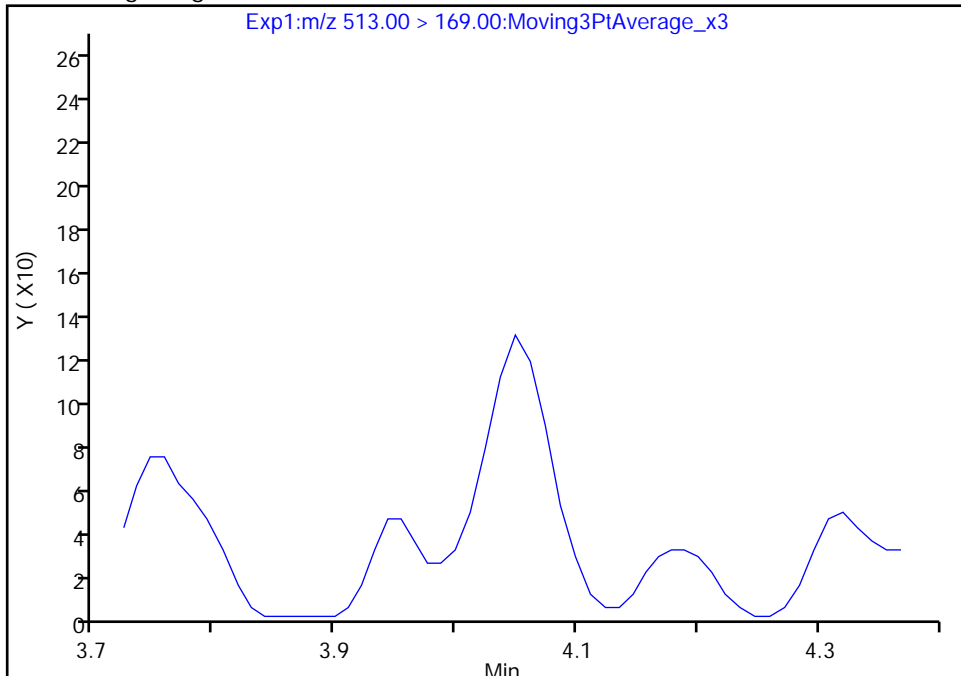
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

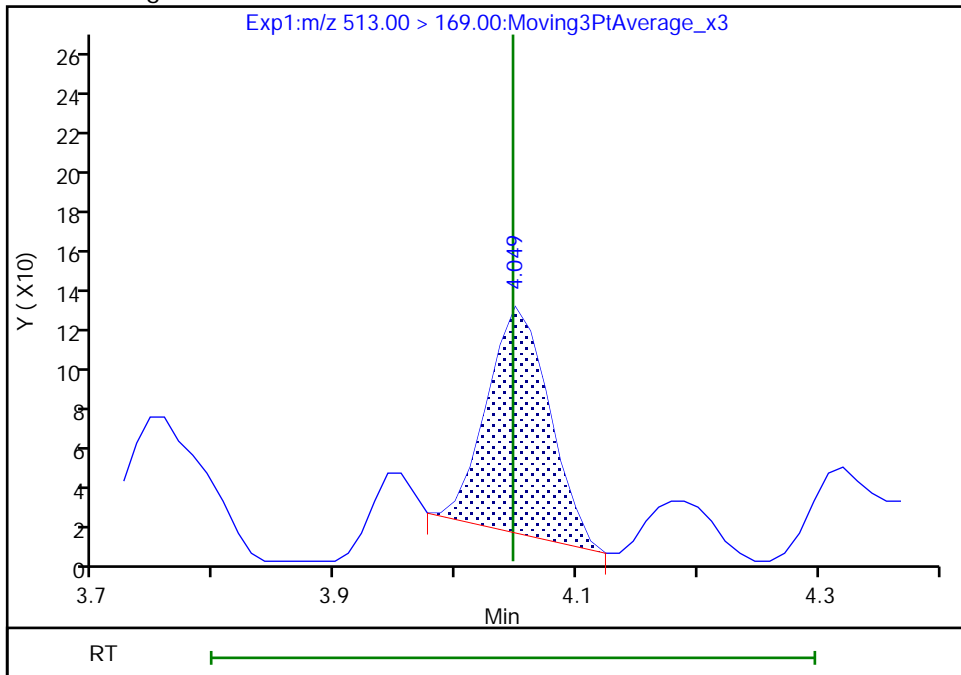
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.05  
Area: 406  
Amount: 0.113278  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:25:14  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

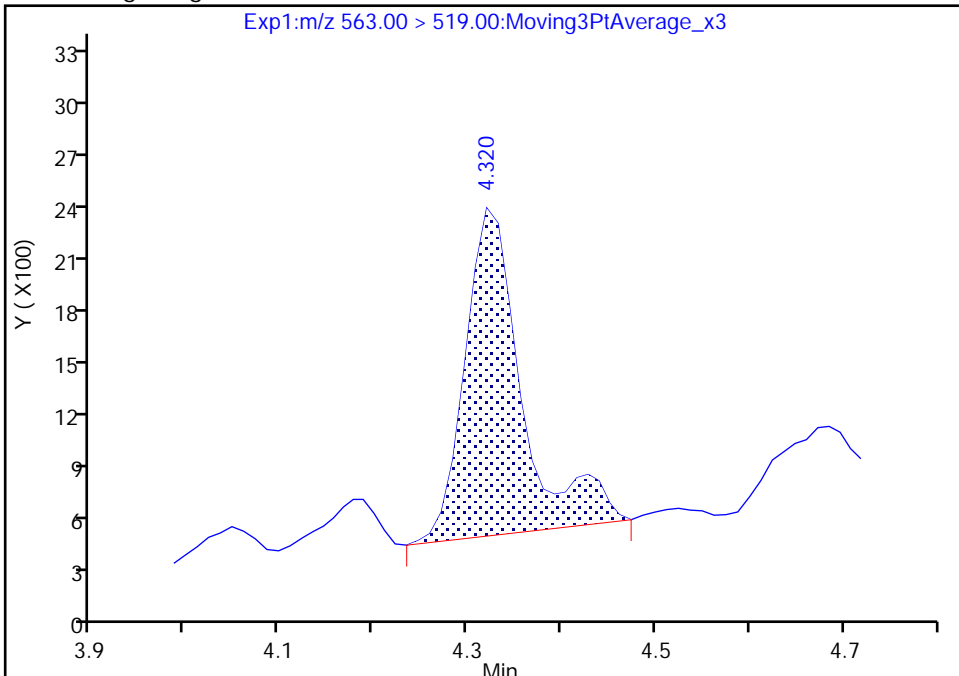
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

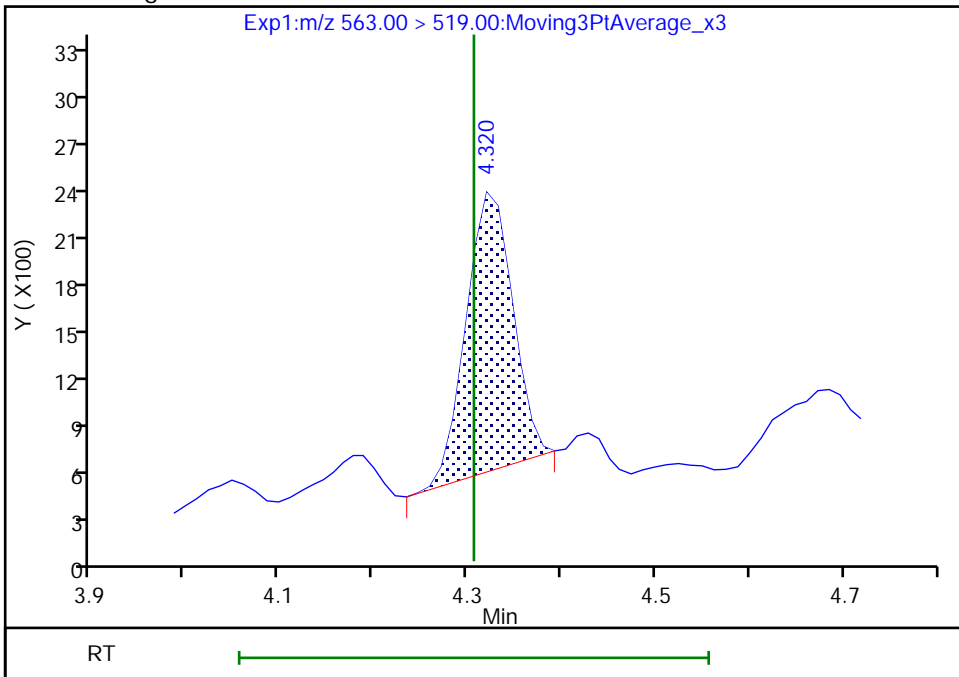
RT: 4.32  
Area: 7565  
Amount: 0.207654  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 5834  
Amount: 0.160139  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:26:43  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 900 of 1264

Eurofins TestAmerica, Burlington

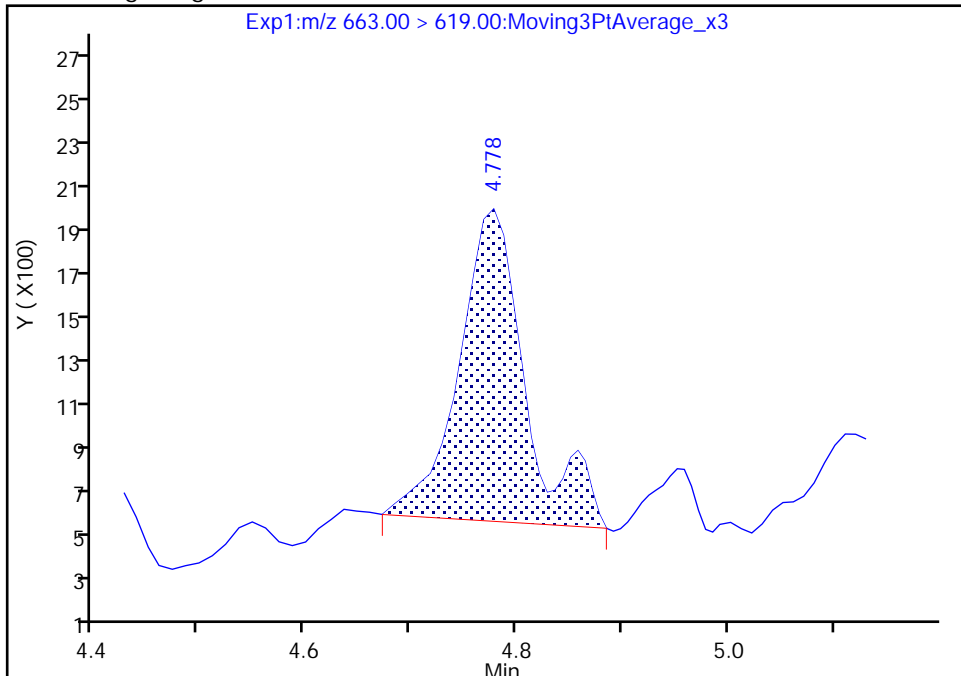
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

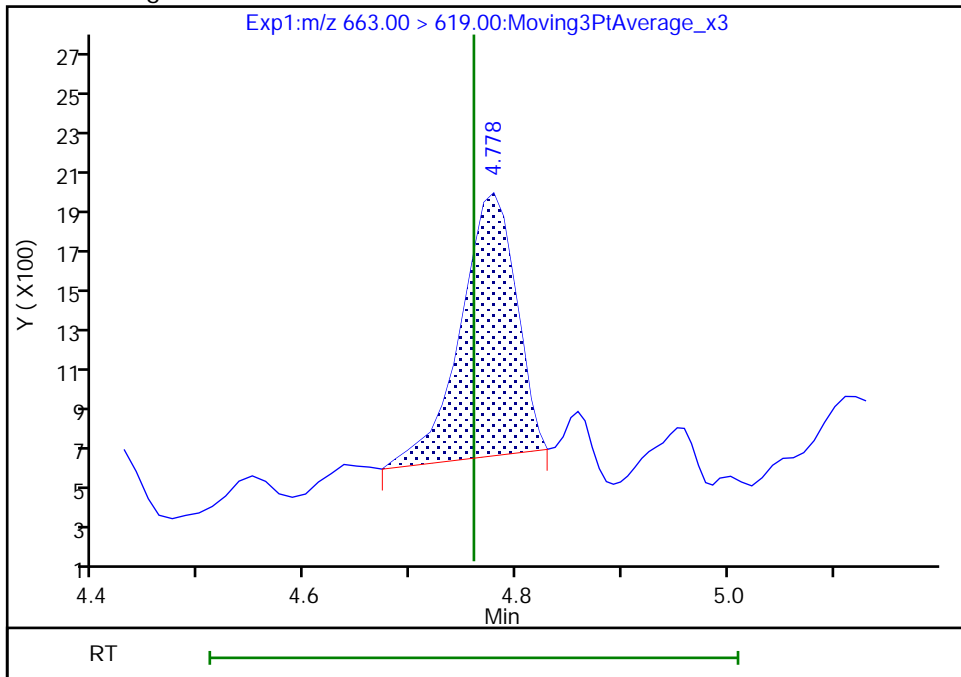
RT: 4.78  
Area: 6034  
Amount: 0.149917  
Amount Units: ng/ml

Processing Integration Results



RT: 4.78  
Area: 4702  
Amount: 0.116823  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:27:22  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

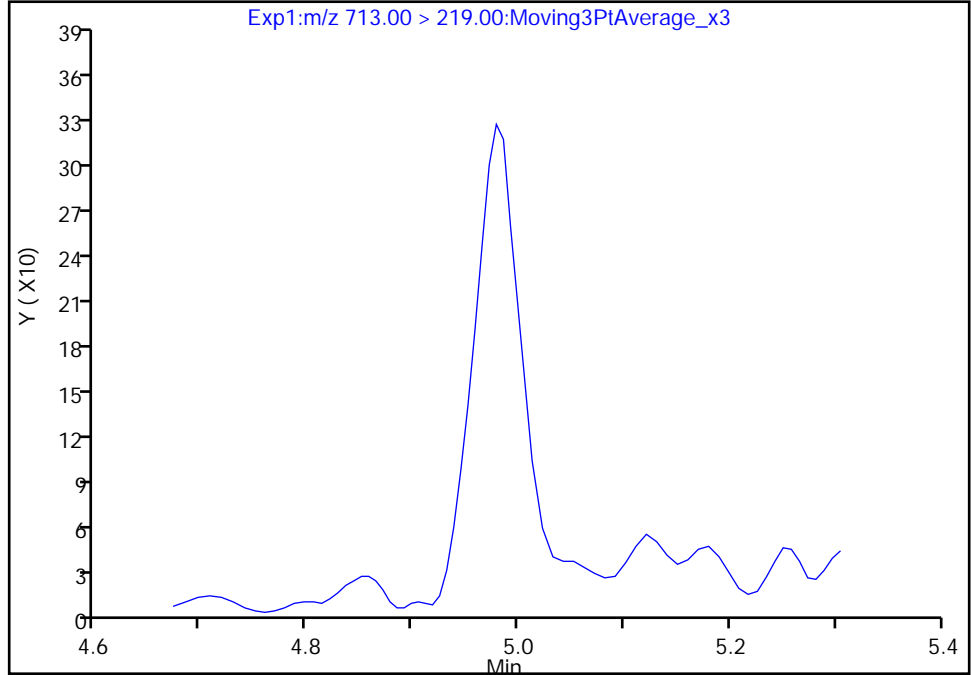
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

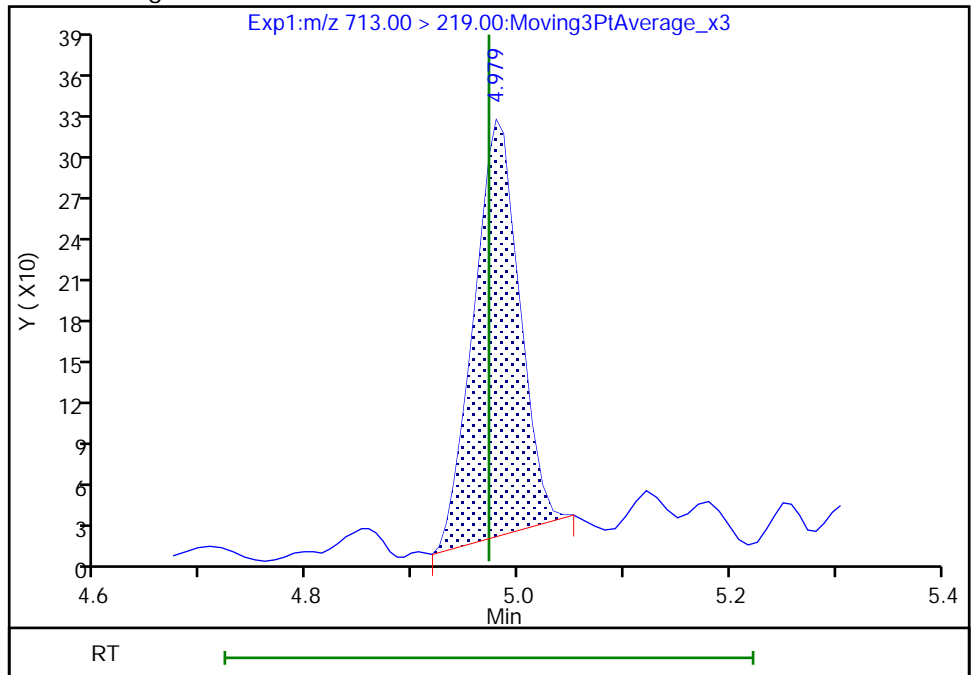
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 915  
Amount: 0.177433  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:27:38  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

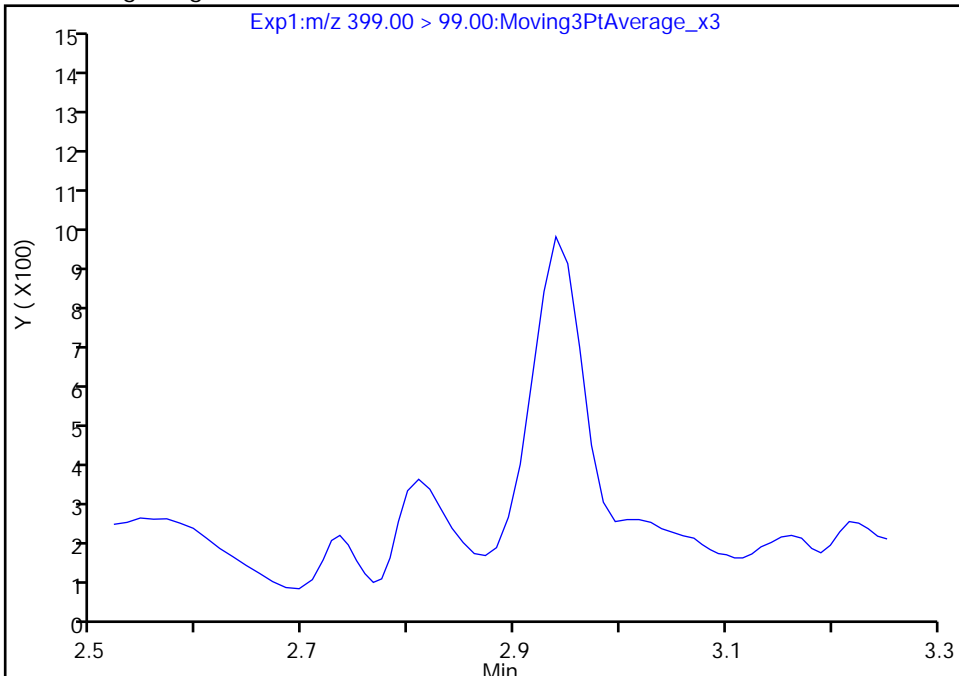
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

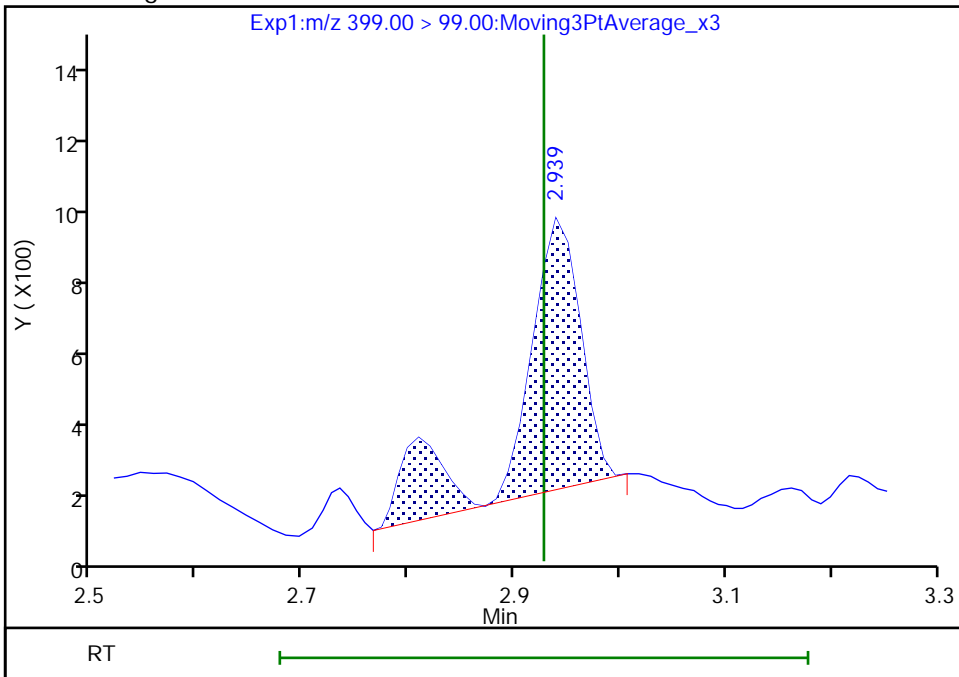
Not Detected  
Expected RT: 2.93

Processing Integration Results



RT: 2.94  
Area: 3047  
Amount: 0.249669  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:23:01  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

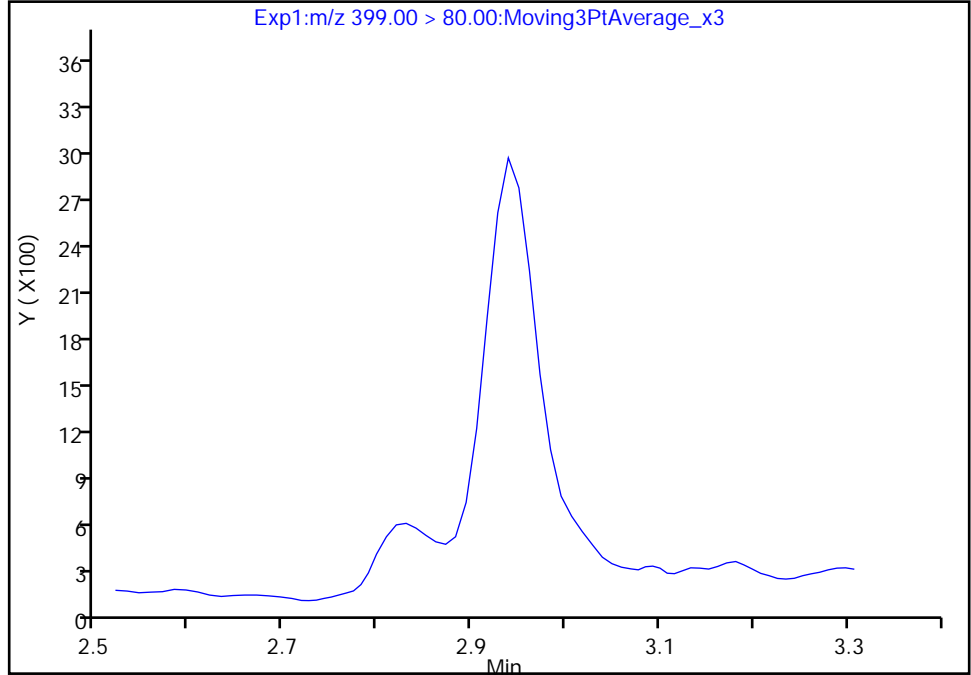
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

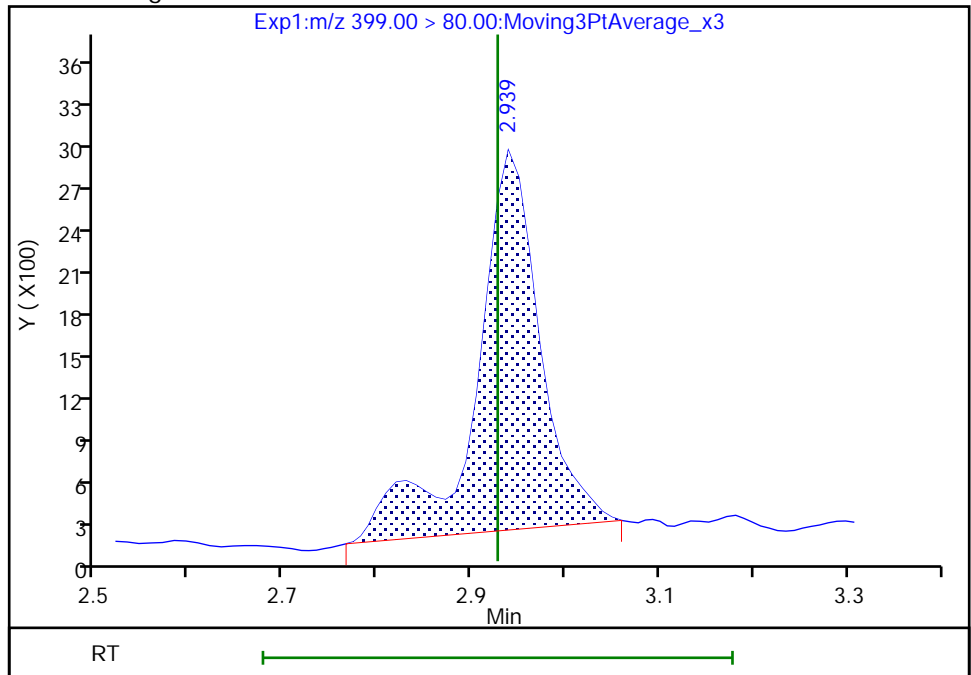
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 12933  
Amount: 0.249669  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:23:04

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

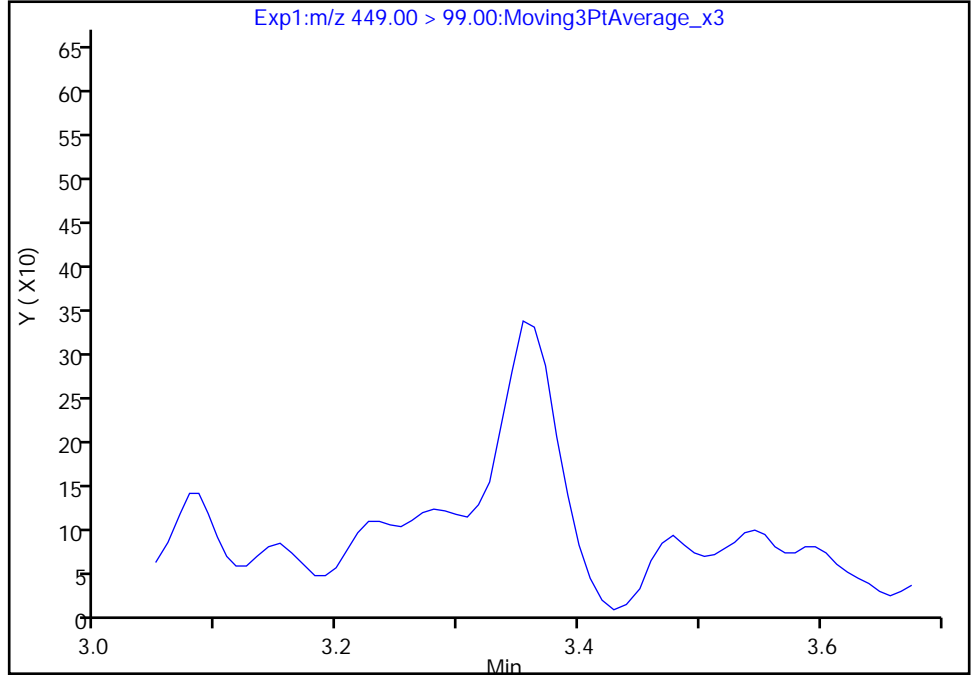
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

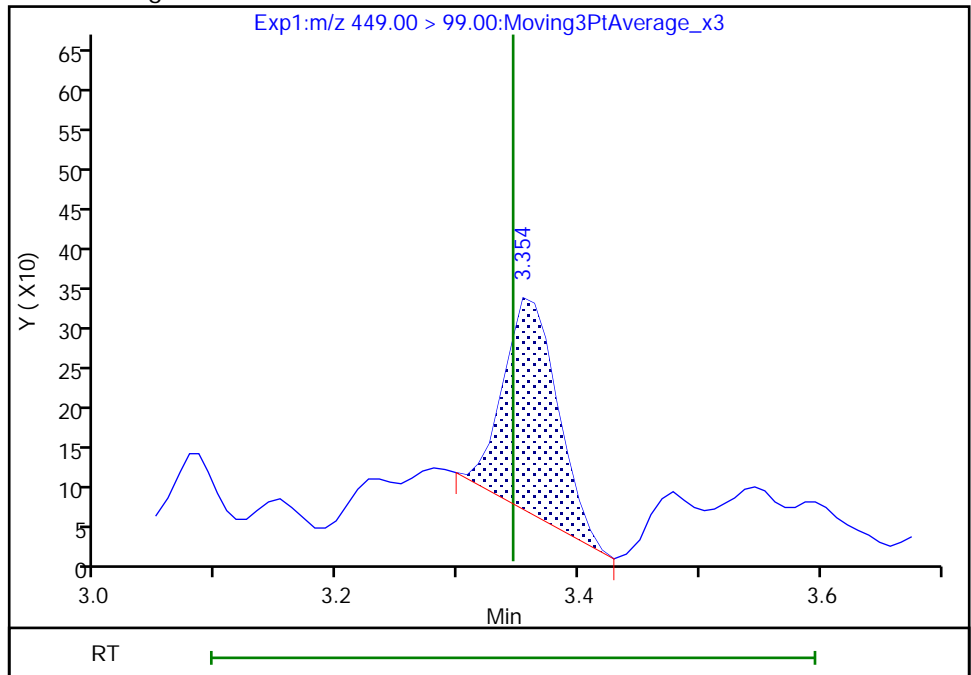
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35  
Area: 844  
Amount: 0.068345  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:23:41  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

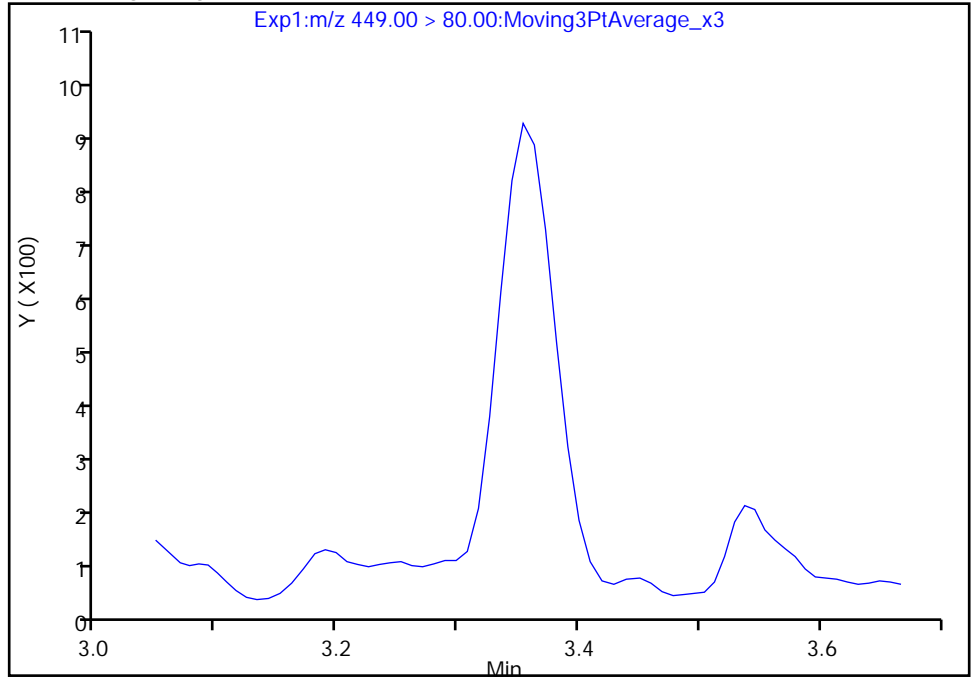
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

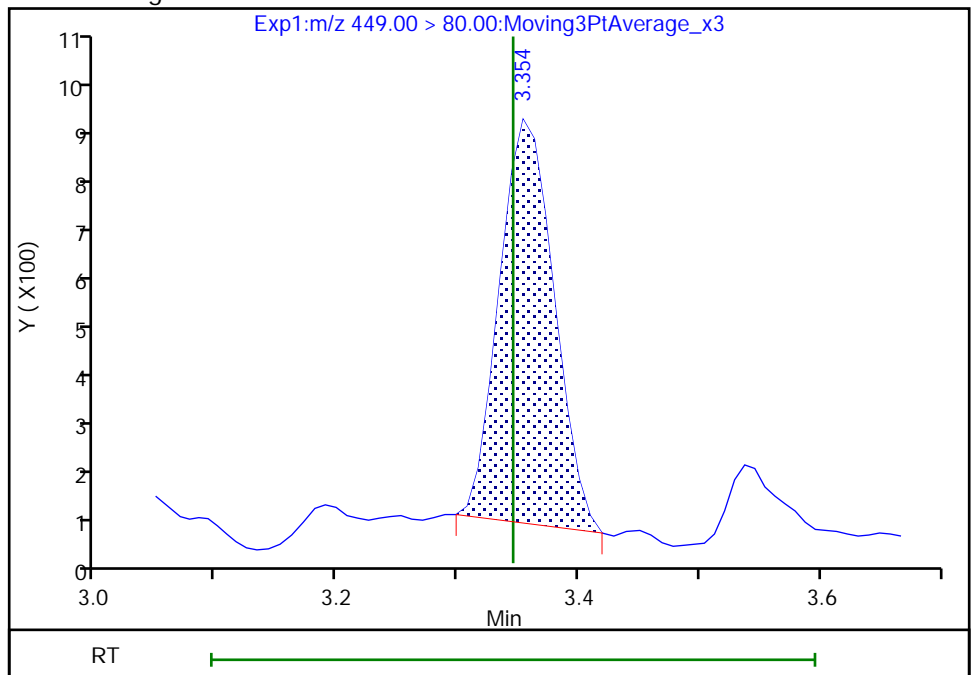
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.35  
Area: 2479  
Amount: 0.068345  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

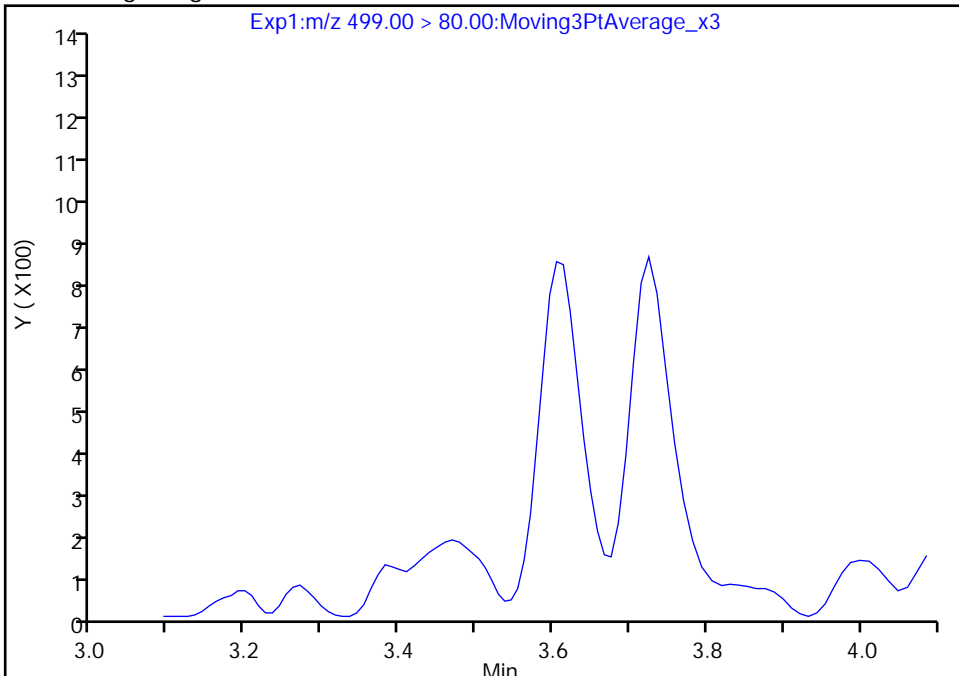
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

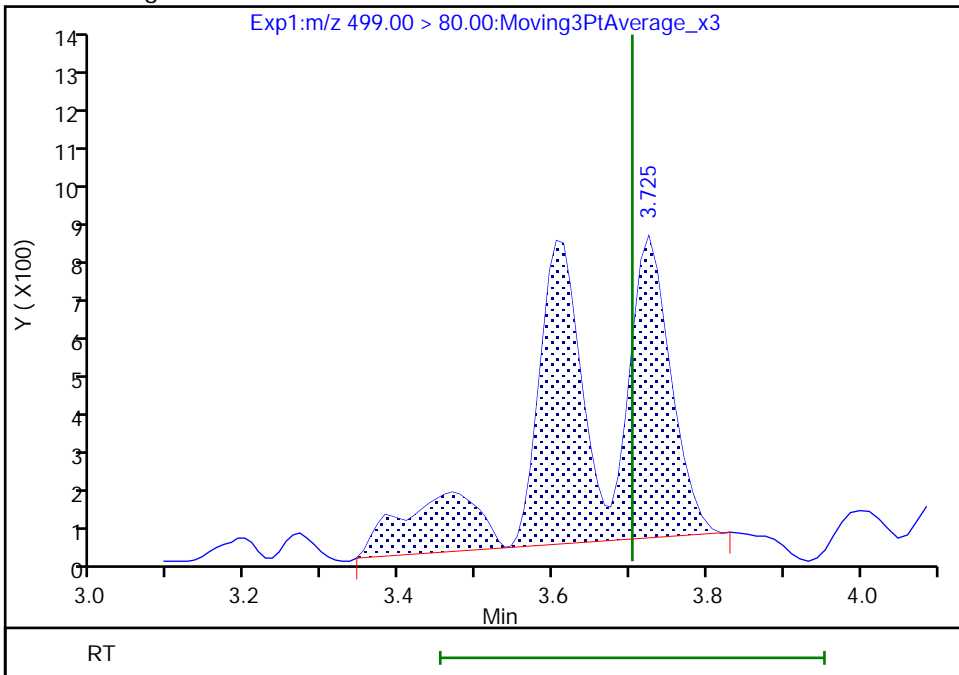
Not Detected  
Expected RT: 3.70

Processing Integration Results



RT: 3.72  
Area: 6780  
Amount: 0.237882  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:24:17  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

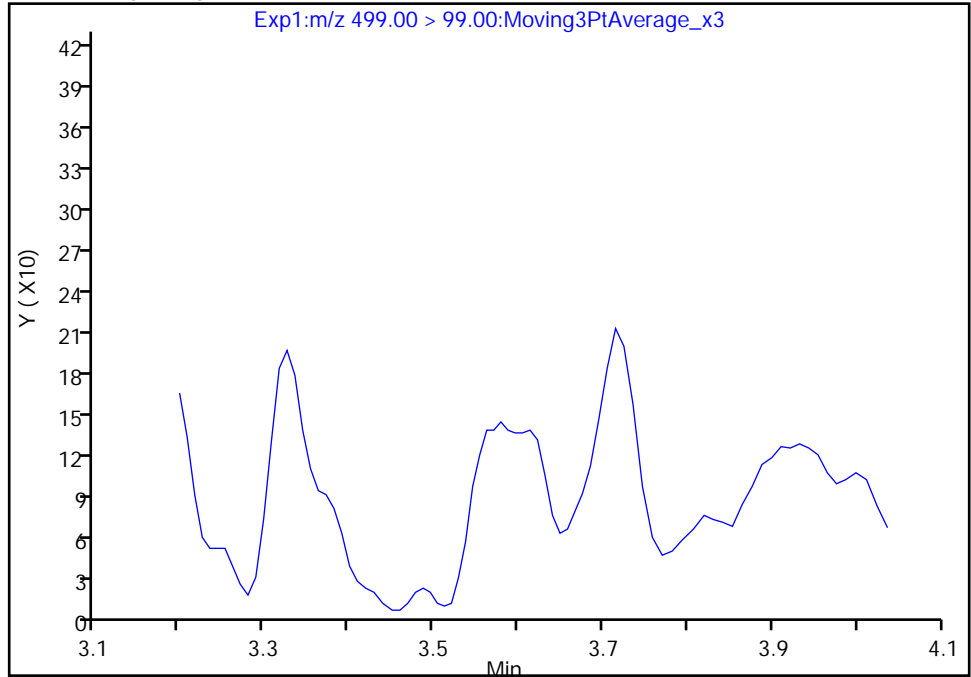
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

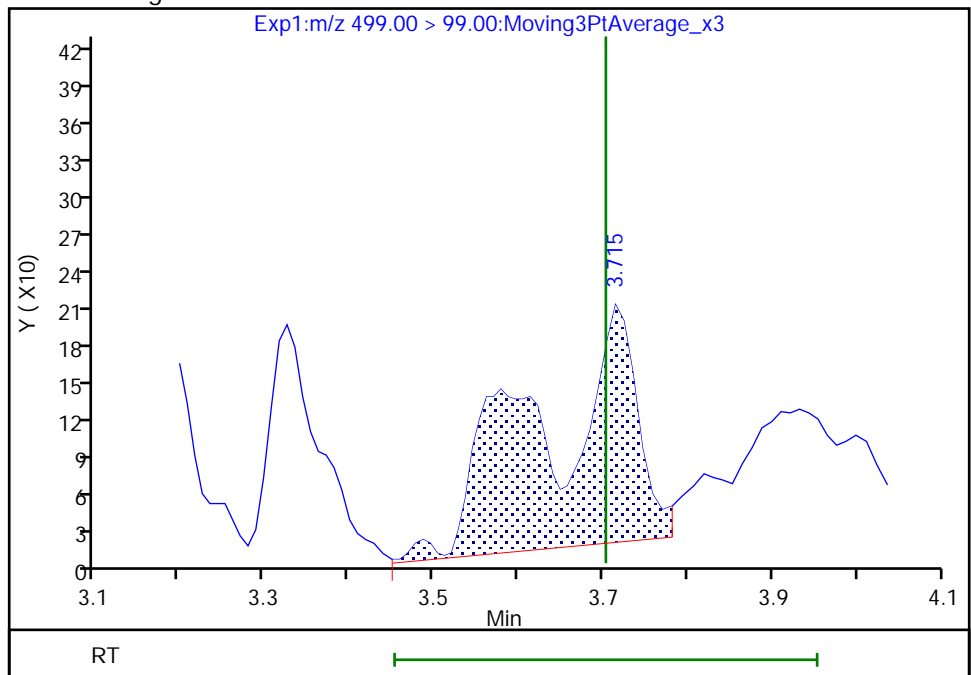
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.71  
Area: 1522  
Amount: 0.237882  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:24:45

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

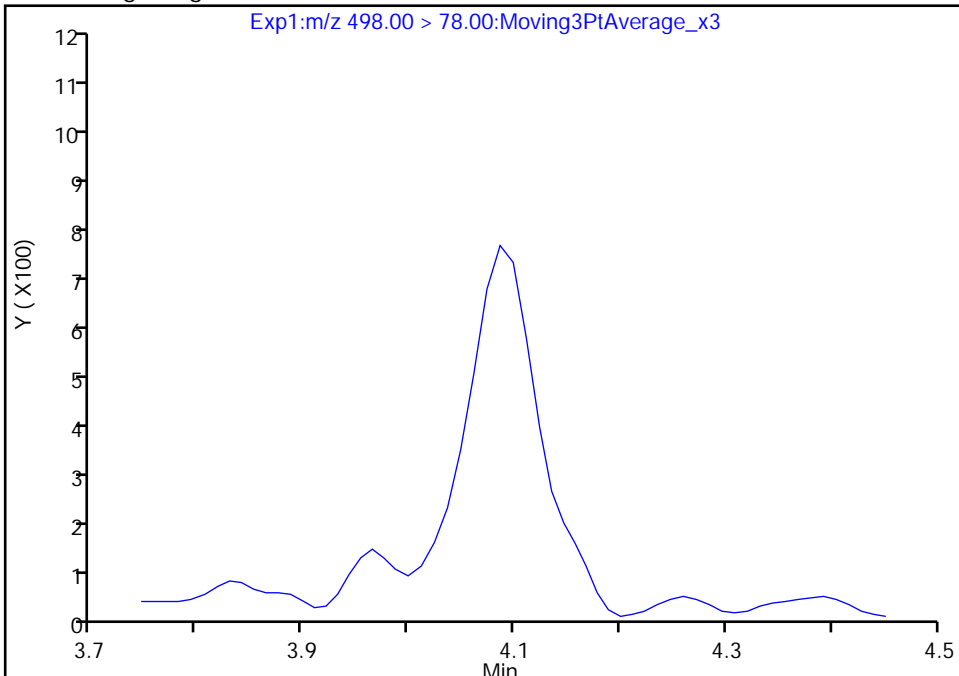
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

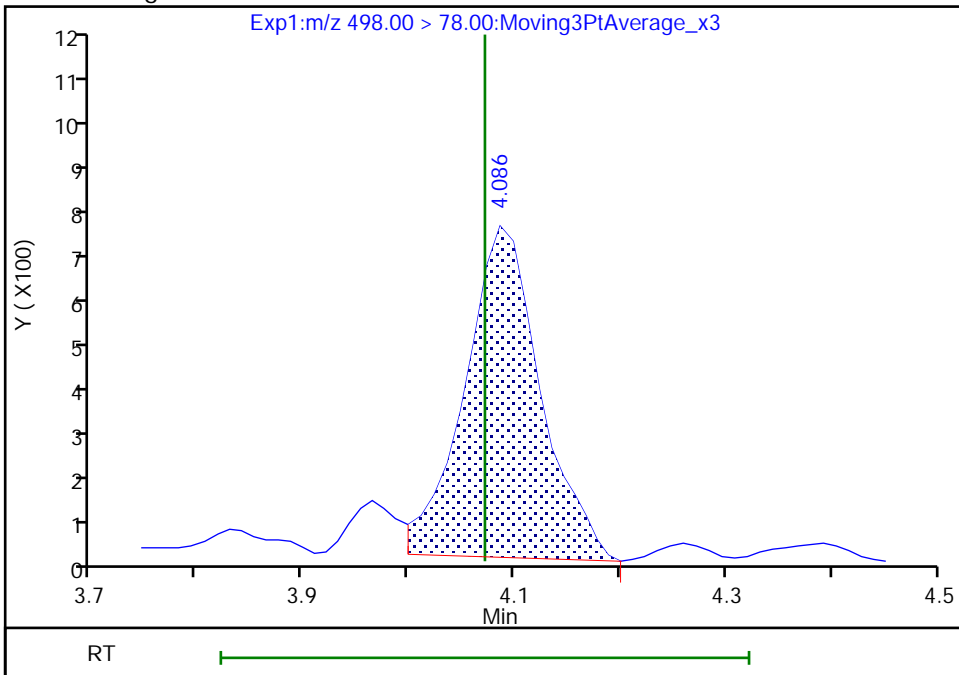
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.09  
Area: 3552  
Amount: 0.090619  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:25:55  
Audit Action: Manually Integrated

Audit Reason: Split Peak

Euofins TestAmerica, Burlington

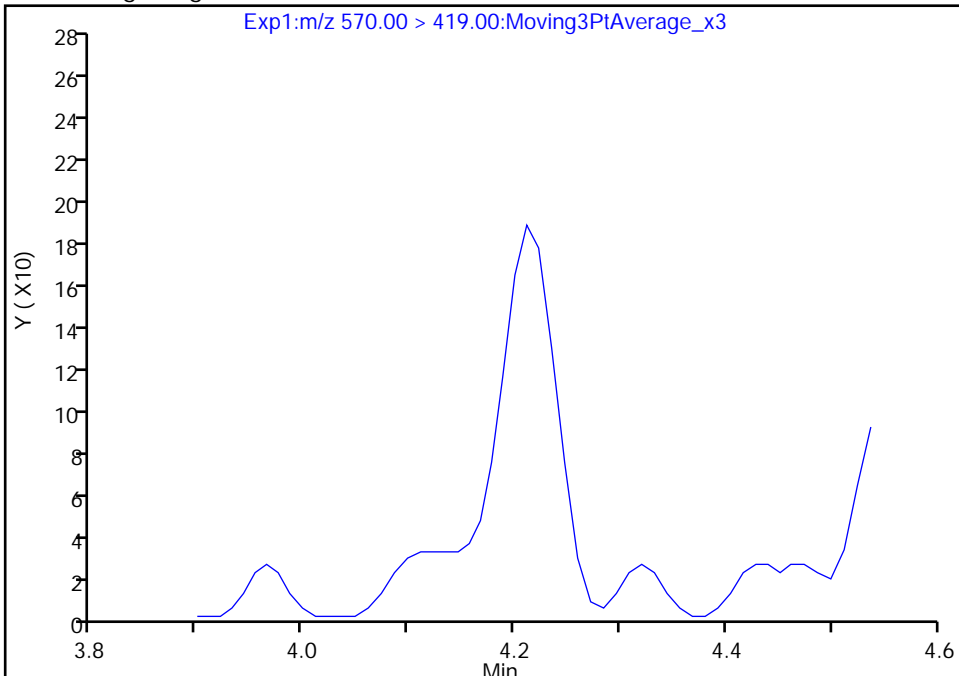
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

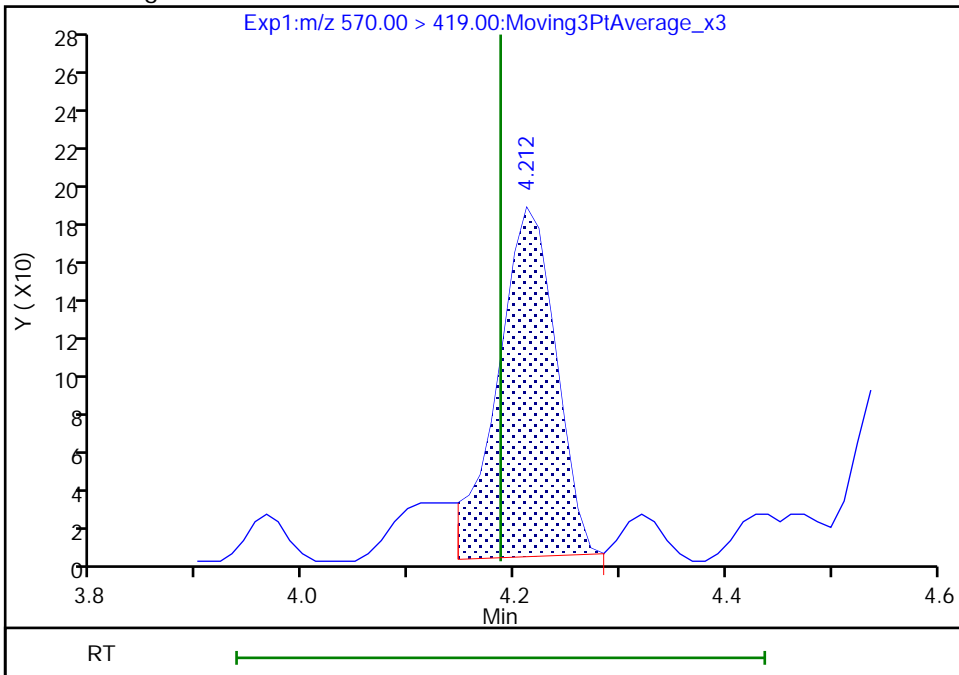
Not Detected  
Expected RT: 4.19

Processing Integration Results



Manual Integration Results

RT: 4.21  
Area: 704  
Amount: 0.195507  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:26:25  
Audit Action: Manually Integrated

Audit Reason: Split Peak



Eurofins TestAmerica, Burlington

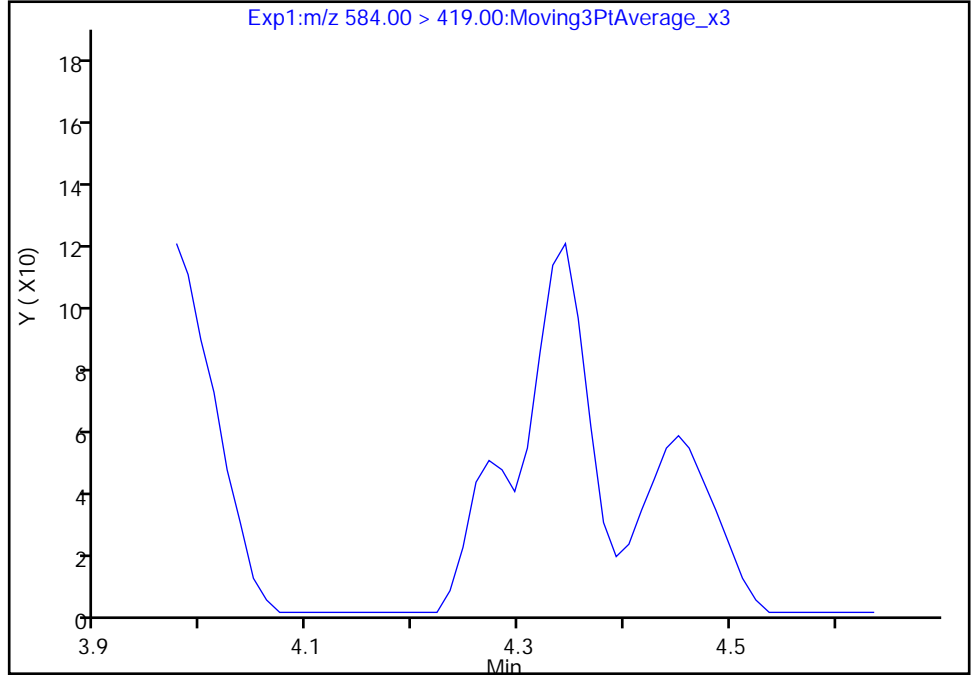
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6

Signal: 1

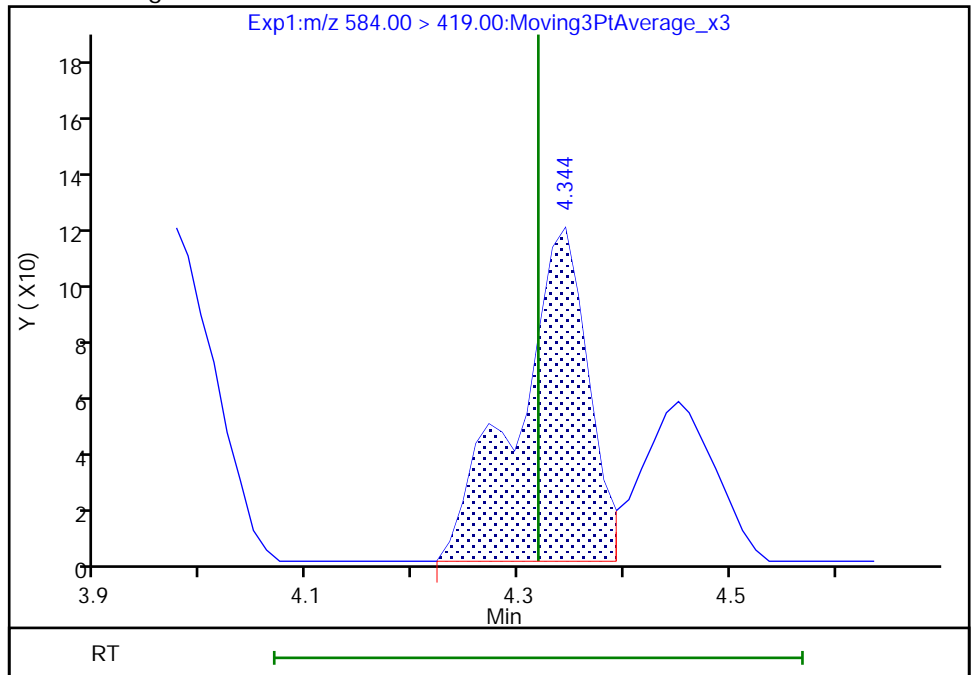
Not Detected  
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 553  
Amount: 0.163514  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:26:58  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

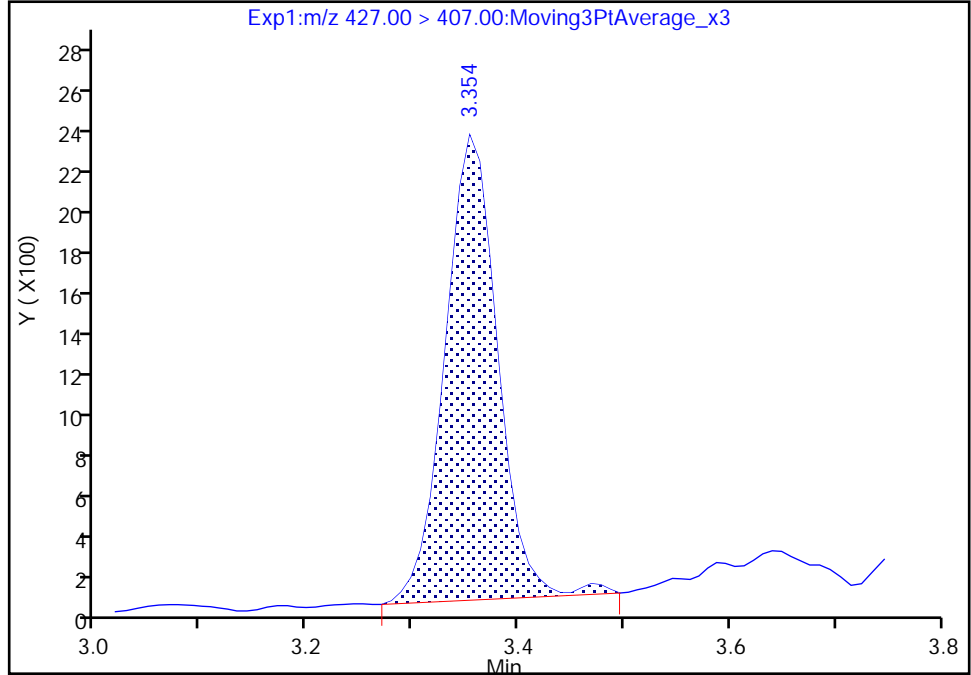
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:, CAS: 27619-97-2

Signal: 1

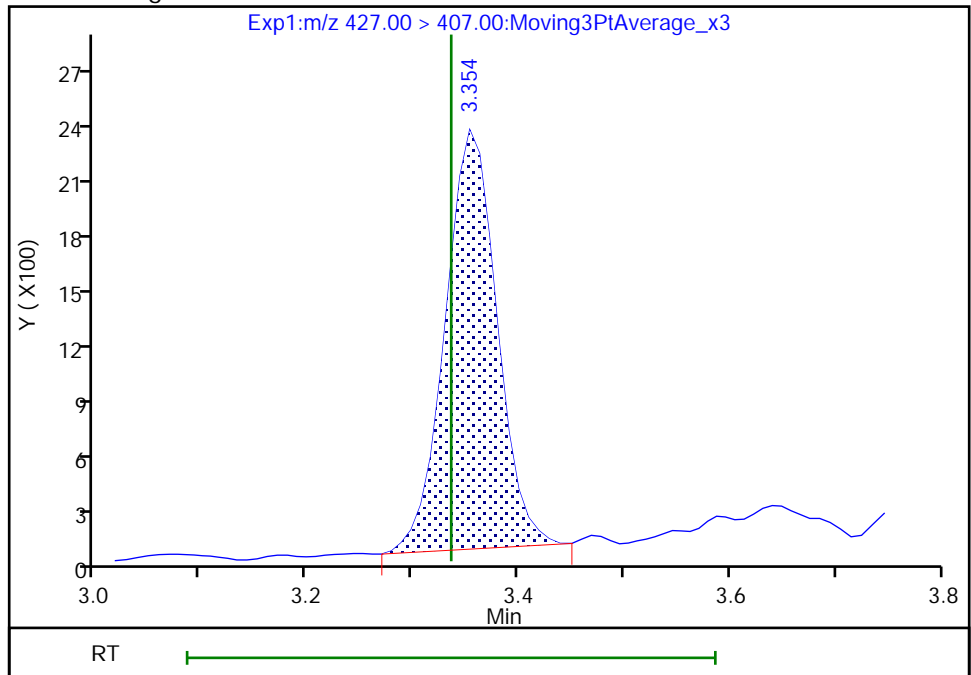
RT: 3.35  
Area: 7906  
Amount: 0.504098  
Amount Units: ng/ml

Processing Integration Results



RT: 3.35  
Area: 7749  
Amount: 0.494088  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:23:25  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

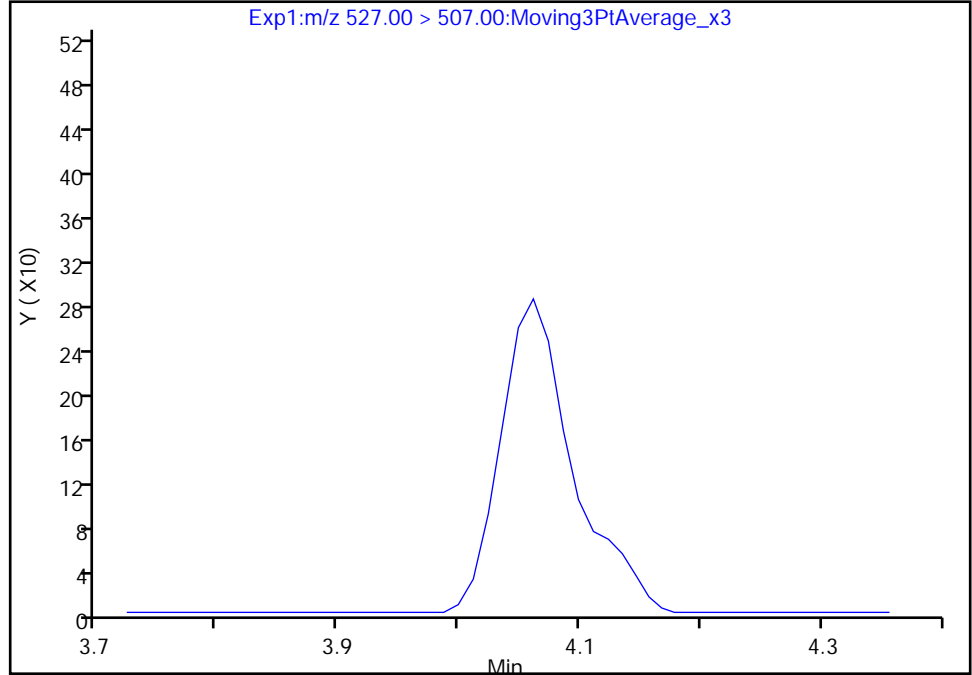
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E018.d  
Injection Date: 02-Aug-2019 06:06:01 Instrument ID: LC812  
Lims ID: 480-156213-F-15-A Lab Sample ID: 200-156213-15  
Client ID: 356023-MW15B  
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 18  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

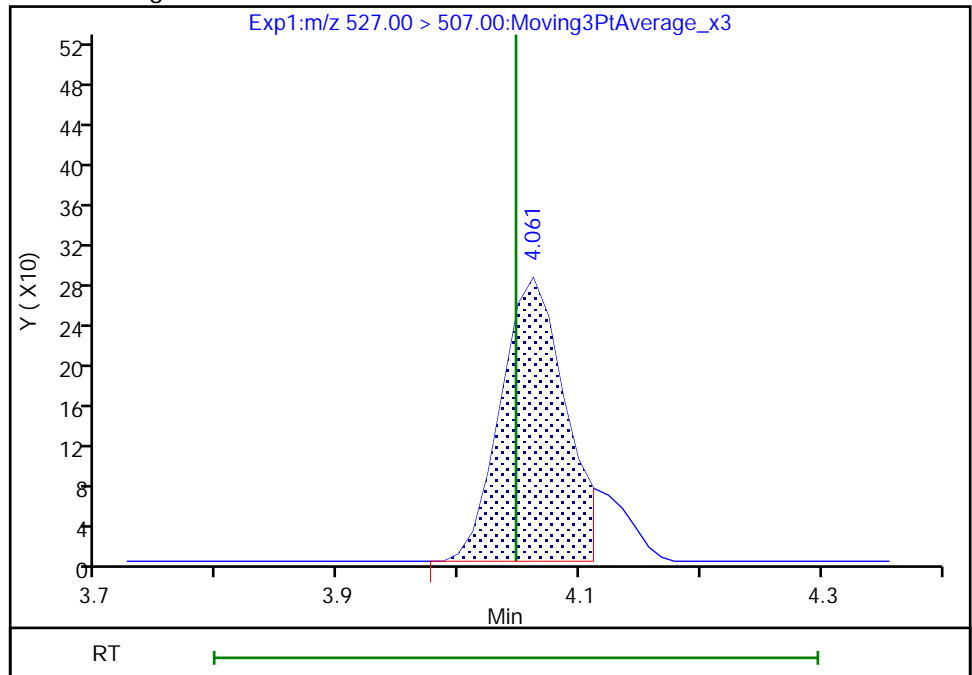
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.06  
Area: 1034  
Amount: 0.095026  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:25:26  
Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-EB1 Lab Sample ID: 480-156213-16  
 Matrix: Water Lab File ID: SC080119E019.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 09:45  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 304.8 (mL) Date Analyzed: 08/02/2019 06:14  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		1.6	0.82
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.6	0.52
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.62
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.75
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.6	0.52
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.63
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.75
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.40
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.66
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.78
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.74
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.50
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.2	8.2
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.8
39108-34-4	8:2 FTS	ND		16	2.4

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-EB1 Lab Sample ID: 480-156213-16  
 Matrix: Water Lab File ID: SC080119E019.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 09:45  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 304.8 (mL) Date Analyzed: 08/02/2019 06:14  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	67		25-150
STL00992	13C4 PFBA	97		25-150
STL01893	13C5 PFPeA	94		25-150
STL00993	13C2 PFHxA	94		50-150
STL01892	13C4 PFHpA	95		50-150
STL00990	13C4 PFOA	90		50-150
STL00995	13C5 PFNA	94		50-150
STL00996	13C2 PFDA	101		50-150
STL00997	13C2 PFUnA	91		50-150
STL00998	13C2 PFDoA	76		50-150
STL02116	13C2 PFTeDA	61		50-150
STL02337	13C3 PFBS	89		50-150
STL00994	18O2 PFHxS	89		50-150
STL00991	13C4 PFOS	90		50-150
STL02118	d3-NMeFOSAA	72		50-150
STL02117	d5-NEtFOSAA	68		50-150
STL02279	M2-6:2 FTS	99		25-150
STL02280	M2-8:2 FTS	109		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E019.d  
 Lims ID: 480-156213-F-16-A  
 Client ID: 356023-EB1  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 06:14:04 ALS Bottle#: 12 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-16-A  
 Misc. Info.: 200-0037095-019 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:32:00  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.707	1.699	0.008	0.507	3711217	48.4	96.8	11897	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.707	1.699	0.008	1.000	11986	0.1752		2.0		M
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.613	3377567	46.9	93.8	7771	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	6820	0.1043		0.3	
D 47 13C3 PFBS	301.90 > 80.00	2.092	2.080	0.012	0.621	2911361	41.2	88.5	1136597	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.092	2.093	-0.001	1.000	8215	0.1291	Target=1.90	32.5	
298.90 > 99.00	2.092	2.093	-0.001	1.000	3561		2.31(0.95-2.85)	4.6		
D 7 13C2 PFHxA	315.00 > 270.00	2.470	2.459	0.011	0.733	3374060	47.2	94.4	6455	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.000	5334	0.0768	Target=13.23	1.7	RM
313.00 > 119.00	2.482	2.459	0.023	1.005	871		6.12(6.61-19.84)	1.2		M
D 11 18O2 PFHxS	403.00 > 84.00	2.936	2.916	0.020	0.871	1749314	42.2	89.3	8905	
D 9 13C4 PFHpA	367.00 > 322.00	2.936	2.928	0.008	0.871	3320785	47.4	94.8	6889	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.936	2.928	0.008	1.000	9321	0.1913	Target=3.37	14.5	M
399.00 > 99.00	2.936	2.928	0.008	1.000	2416		3.86(1.69-5.06)	2.8		M
D 12 M2-6:2 FTS	429.00 > 81.00	3.352	3.335	0.017	0.995	406930	47.2	99.4	1045	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfoni	427.00 > 407.00	3.352	3.336	0.016	1.000	5259	0.3579		13.9	
D 14 13C4 PFOA	417.00 > 372.00	3.361	3.344	0.017	0.997	3329534	45.0	90.0	12494	
15 Perfluorooctanoic acid	413.00 > 369.00	3.370	3.355	0.015	1.003	15526	0.2143	Target=2.84	1.8	M
	413.00 > 169.00	3.361	3.355	0.006	1.000	6170		2.52(1.42-4.25)	23.4	M
* 62 13C2 PFOA	415.00 > 370.00	3.370	3.355	0.015		4067662	50.0		12903	
D 18 13C4 PFOS	503.00 > 80.00	3.720	3.695	0.025	1.104	1488898	43.1	90.3	8077	
17 Perfluorooctanesulfonic acid	499.00 > 80.00	3.731	3.703	0.028	1.003	3045	0.1033	Target=4.33	11.8	M
	499.00 > 99.00	3.574	3.703	-0.129	0.961	977		3.12(2.16-6.49)	2.0	M
D 19 13C5 PFNA	468.00 > 423.00	3.742	3.715	0.027	1.110	3186929	47.2	94.4	12962	
D 23 13C2 PFDA	515.00 > 470.00	4.056	4.036	0.020	1.203	2724166	50.5	101	13657	
D 26 M2-8:2 FTS	529.00 > 81.00	4.056	4.036	0.020	1.203	414638	52.1	109	1392	
25 1H,1H,2H,2H-perfluorodecanesulfoni	527.00 > 507.00	4.056	4.047	0.009	1.000	397	0.0343		9.5	M
D 21 13C8 FOSA	506.00 > 78.00	4.081	4.061	0.020	1.211	2064783	33.3	66.6	6311	
22 Perfluorooctanesulfonamide	498.00 > 78.00	4.081	4.072	0.009	1.000	5952	0.1579		48.8	
D 27 d3-NMeFOSAA	573.00 > 419.00	4.196	4.178	0.018	1.245	248801	36.1	72.2	3209	
28 N-methylperfluorooctanesulfonamido	570.00 > 419.00	4.196	4.187	0.009	1.000	262	0.0696		0.8	M
D 30 13C2 PFUnA	565.00 > 520.00	4.316	4.296	0.020	1.281	2244675	45.6	91.3	9750	
31 Perfluoroundecanoic acid	563.00 > 519.00	4.316	4.307	0.009	1.000	4671	0.1213	Target=7.95	2.4	M
	563.00 > 169.00	4.316	4.307	0.009	1.000	745		6.27(3.98-11.93)	11.9	M
D 32 d5-NEtFOSAA	589.00 > 419.00	4.328	4.308	0.020	1.284	260463	33.9	67.8	1085	
D 36 13C2 PFDoA	615.00 > 570.00	4.557	4.537	0.020	1.352	2008322	37.9	75.9	5198	
D 43 13C2 PFTeDA	715.00 > 670.00	4.976	4.965	0.011	1.476	2211140	30.3	60.7	8367	

### QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E019.d

Injection Date: 02-Aug-2019 06:14:04

Instrument ID: LC812

Lims ID: 480-156213-F-16-A

Lab Sample ID: 200-156213-16

Client ID: 356023-EB1

Operator ID: lc812tech

ALS Bottle#: 12

Worklist Smp#: 19

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

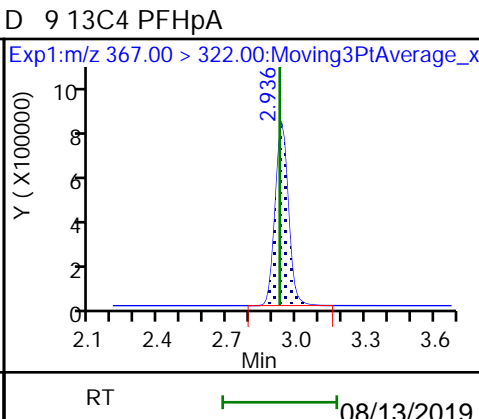
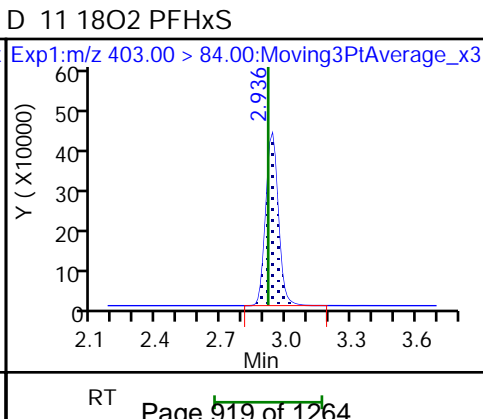
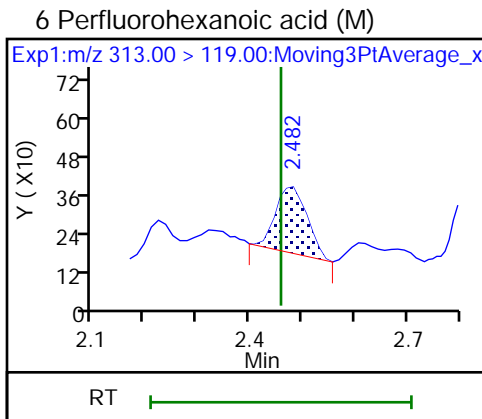
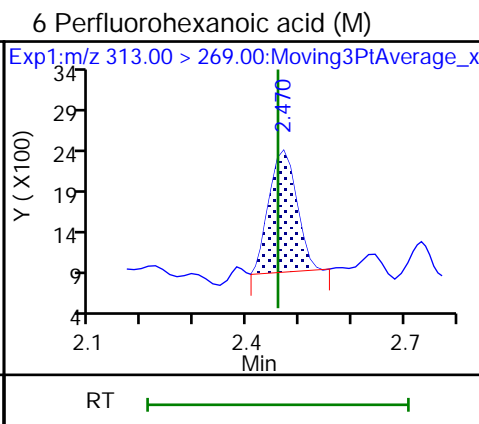
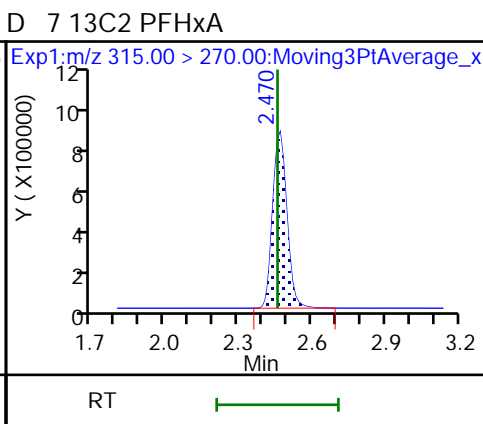
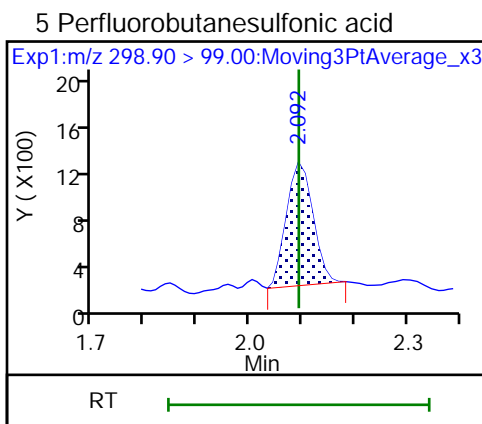
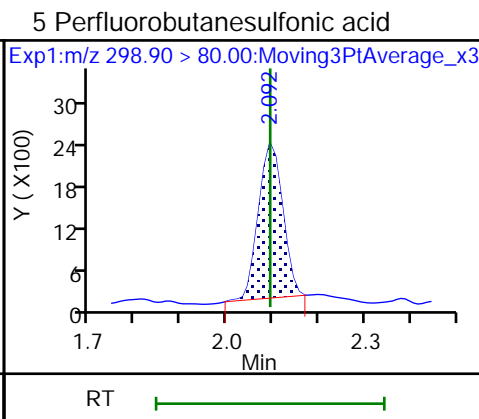
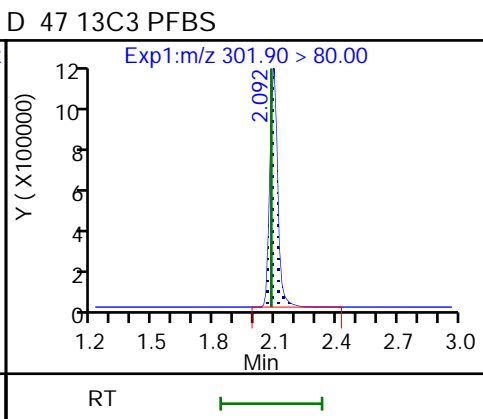
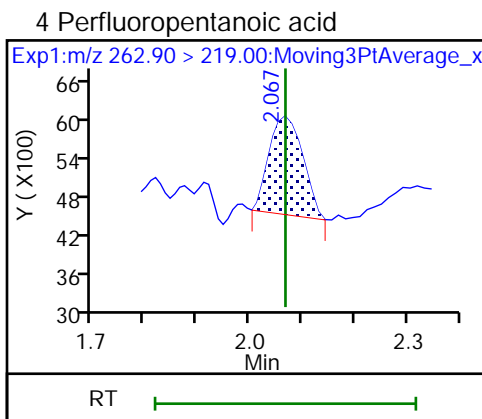
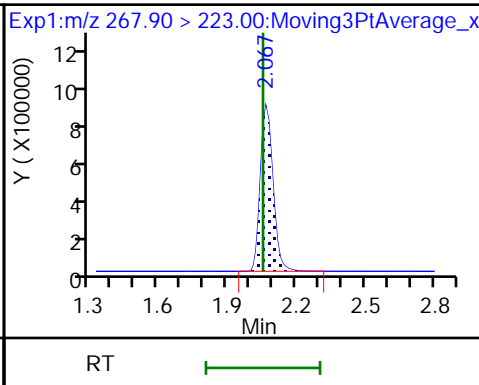
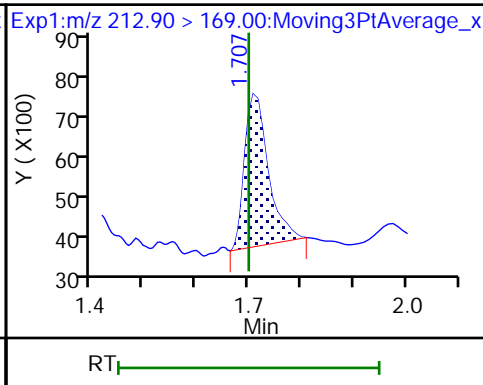
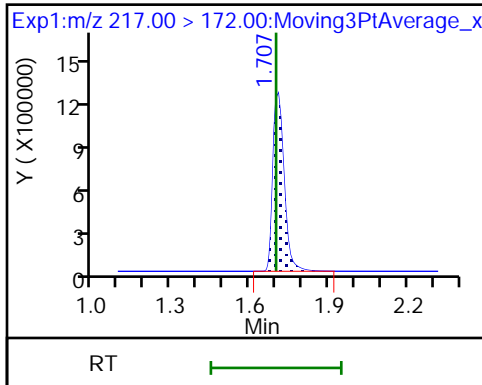
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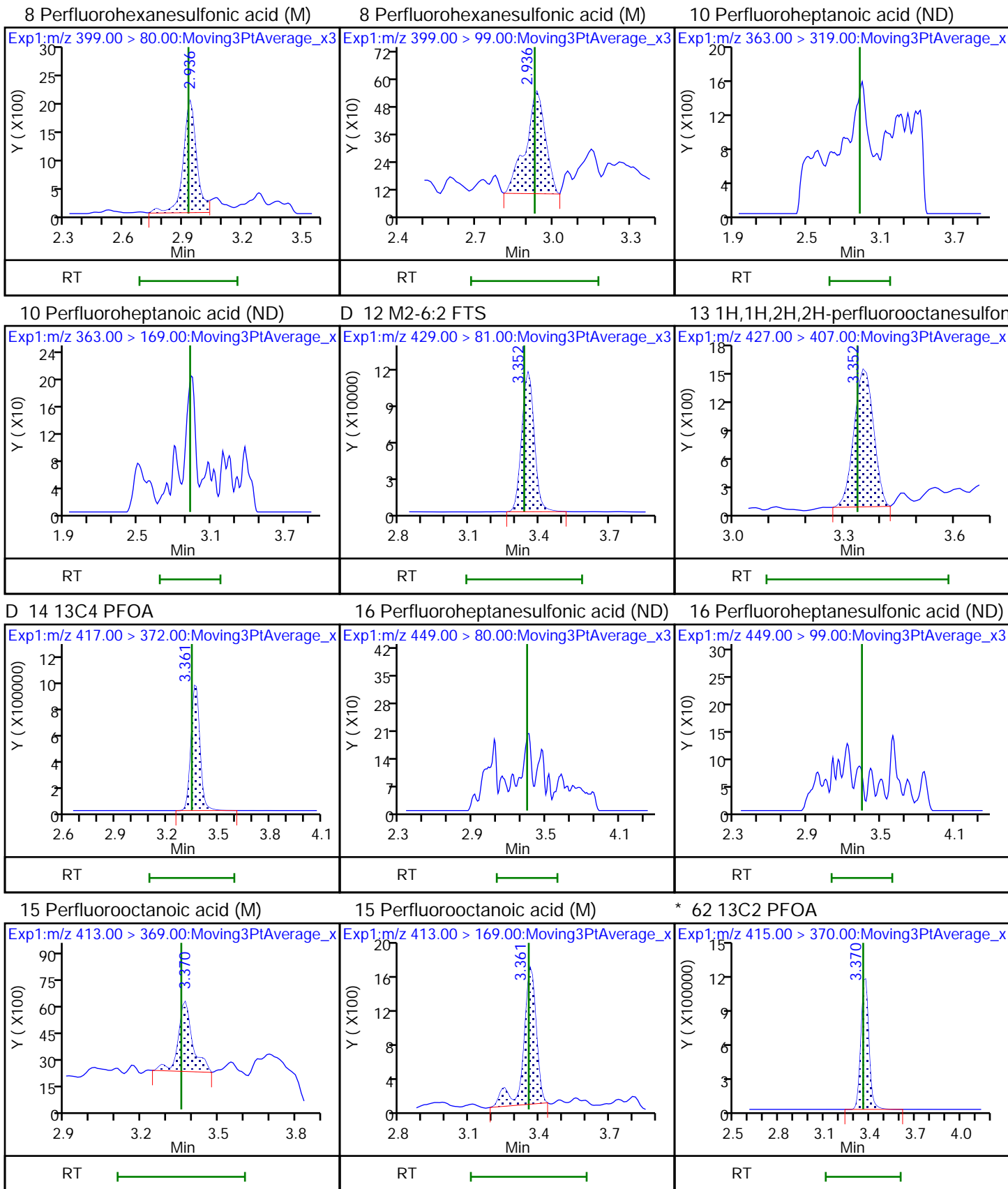
Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

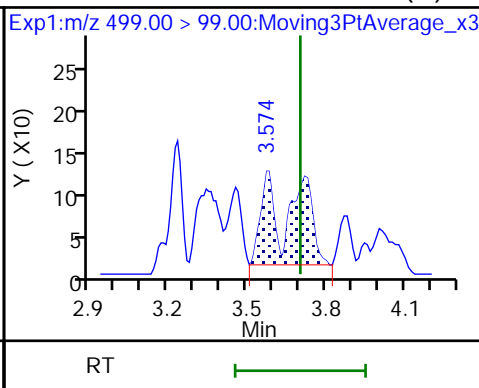
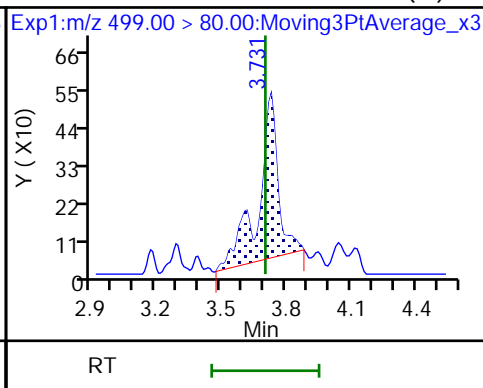
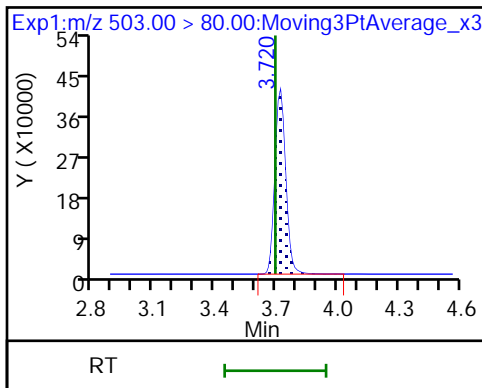




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

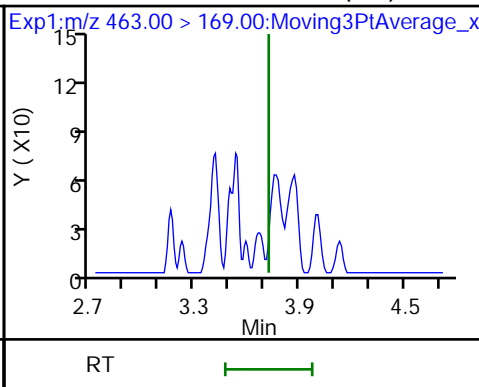
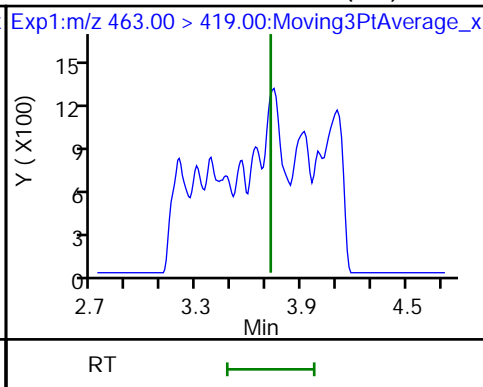
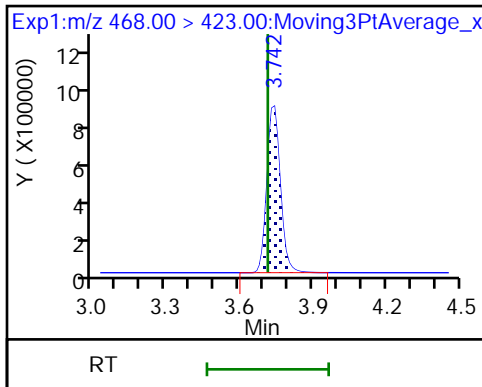
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (ND)

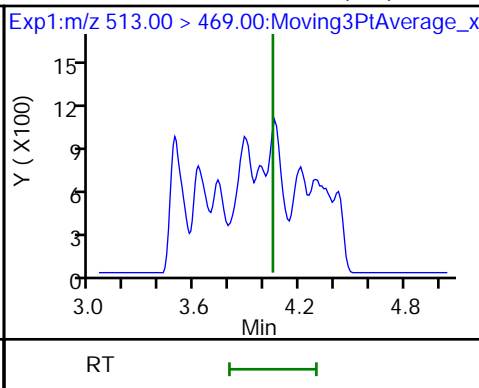
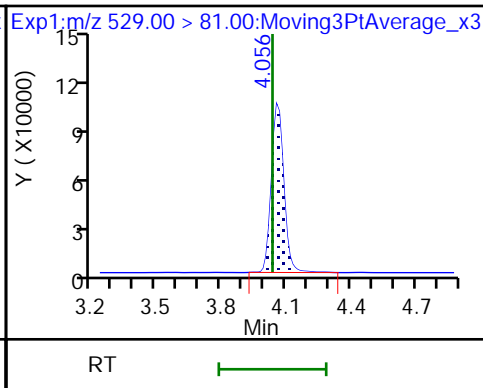
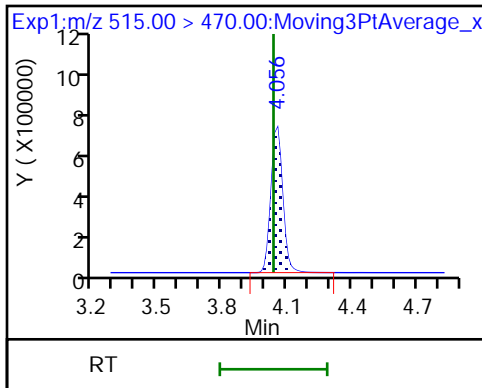
20 Perfluorononanoic acid (ND)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

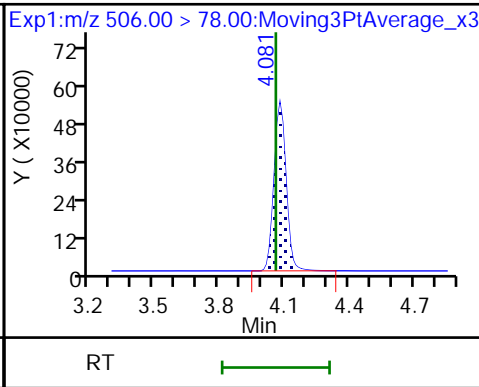
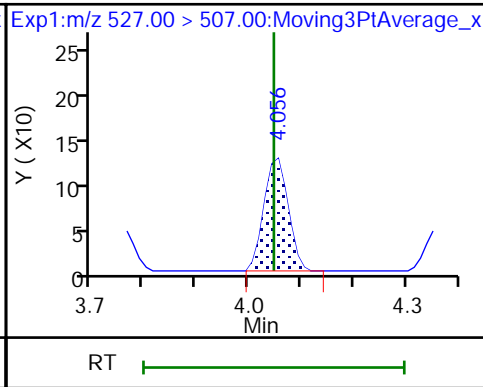
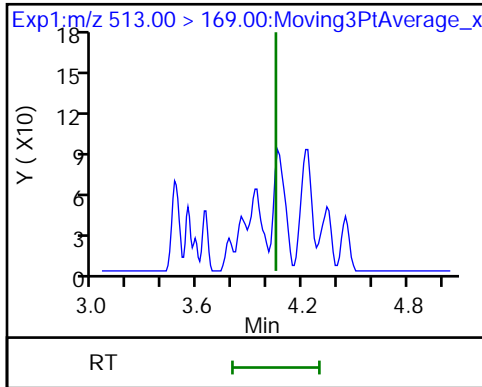
24 Perfluorodecanoic acid (ND)

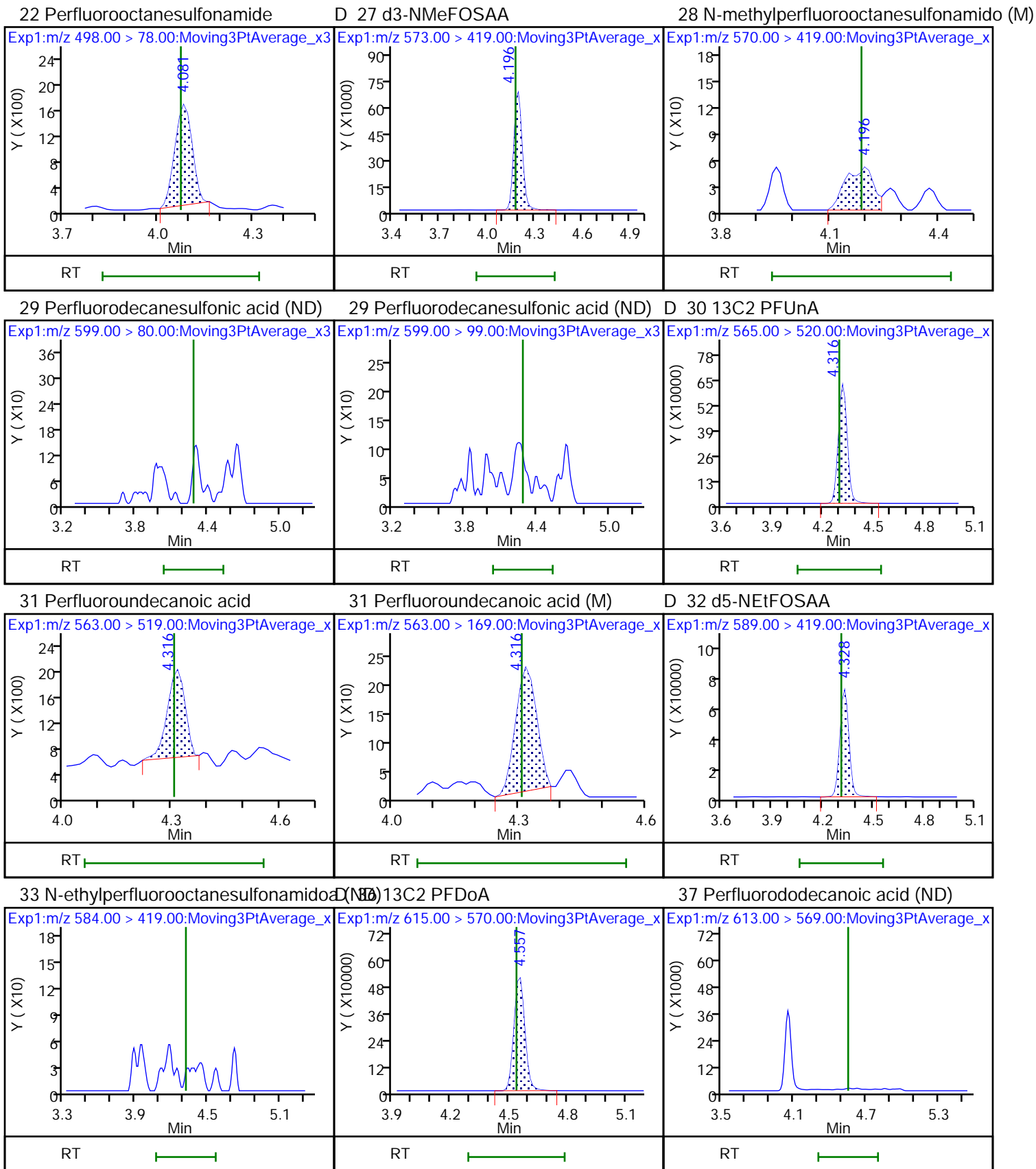


24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

D 27 13C8 FOSA

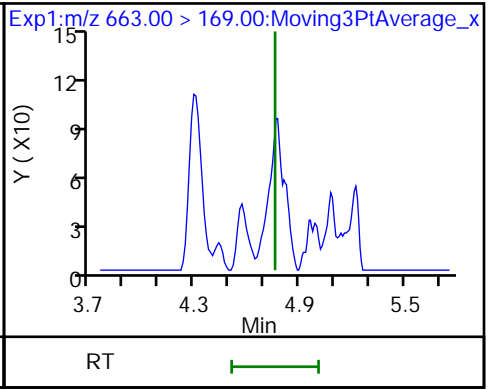
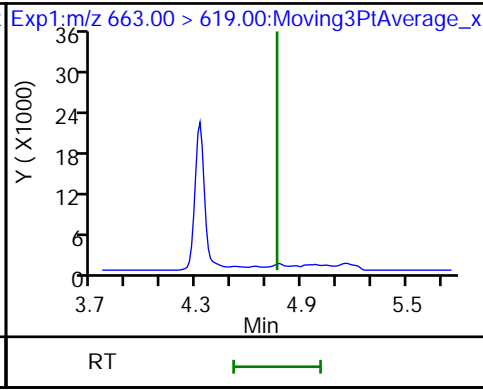
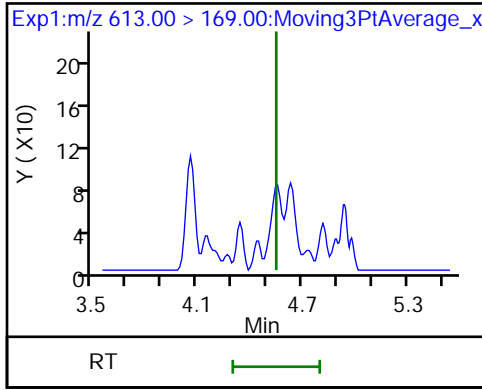




37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

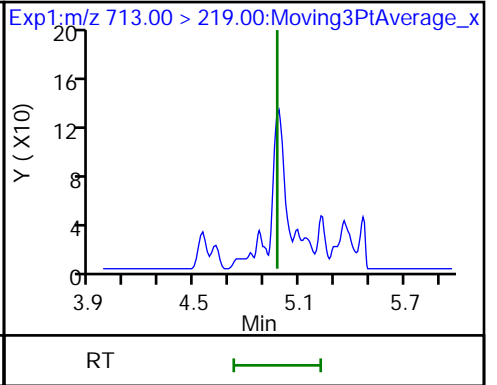
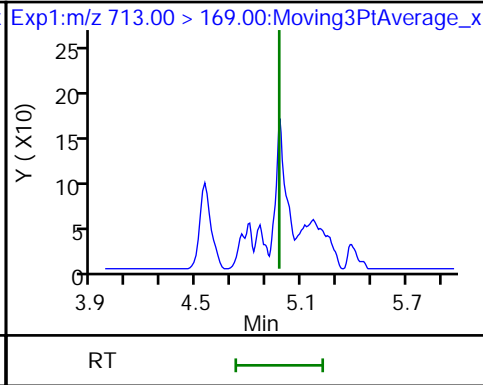
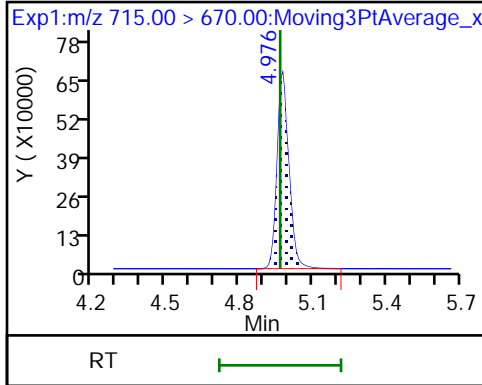
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)



Eurofins TestAmerica, Burlington

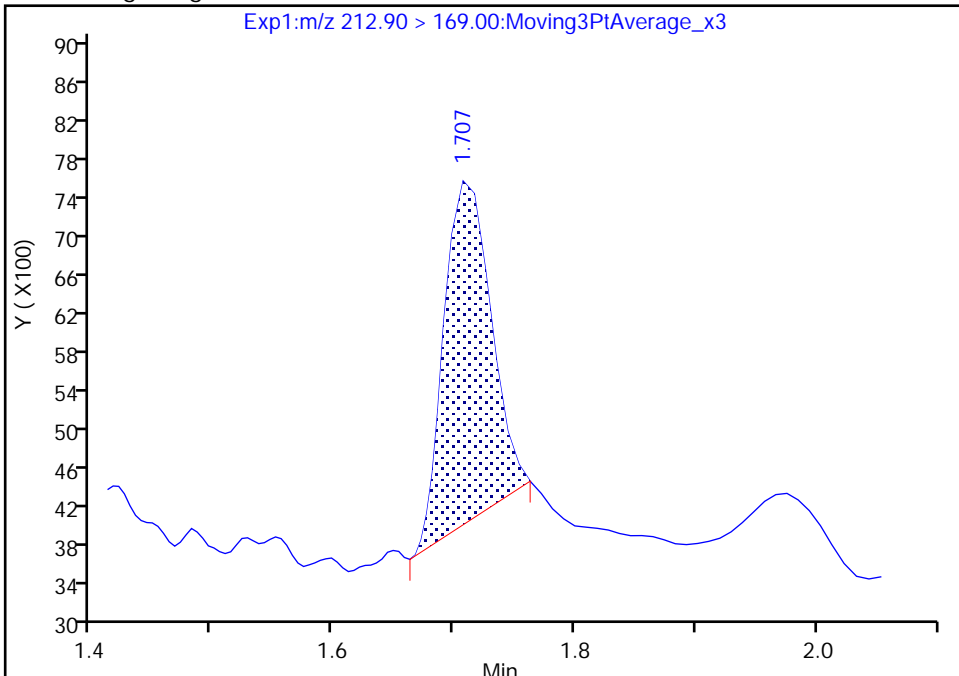
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Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

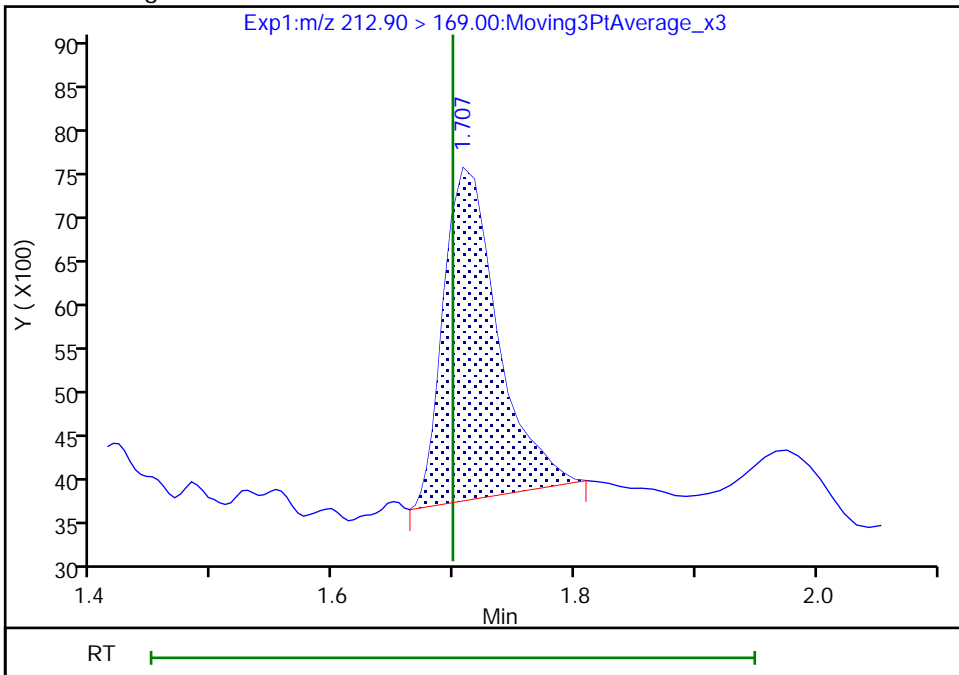
RT: 1.71  
Area: 9600  
Amount: 0.140332  
Amount Units: ng/ml

Processing Integration Results



RT: 1.71  
Area: 11986  
Amount: 0.175211  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:28:22  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

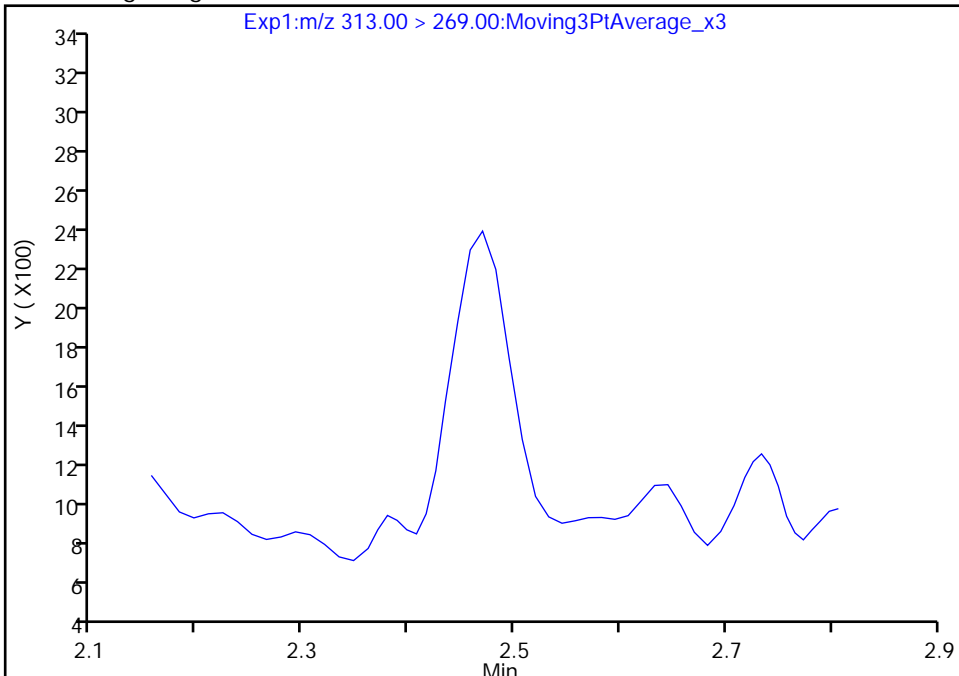
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Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

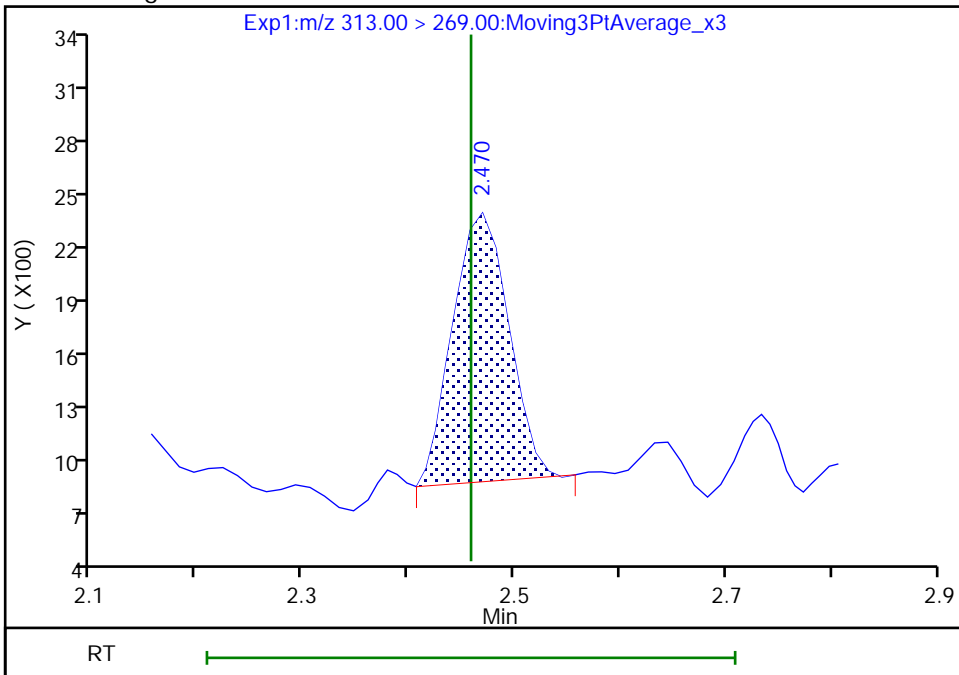
Not Detected  
Expected RT: 2.46

Processing Integration Results



Manual Integration Results

RT: 2.47  
Area: 5334  
Amount: 0.076758  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:28:37  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

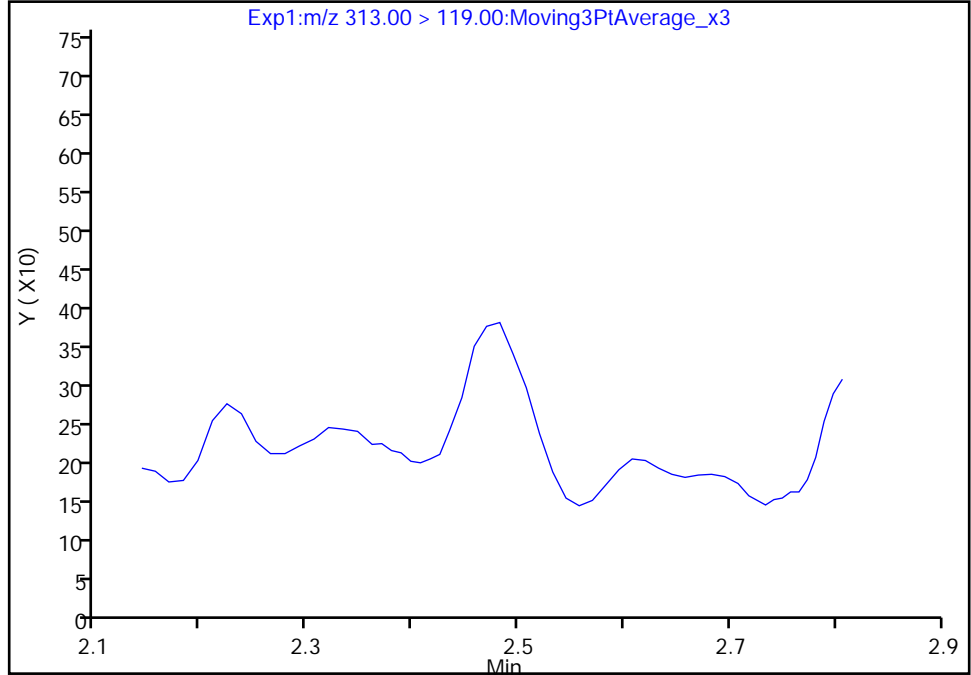
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Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

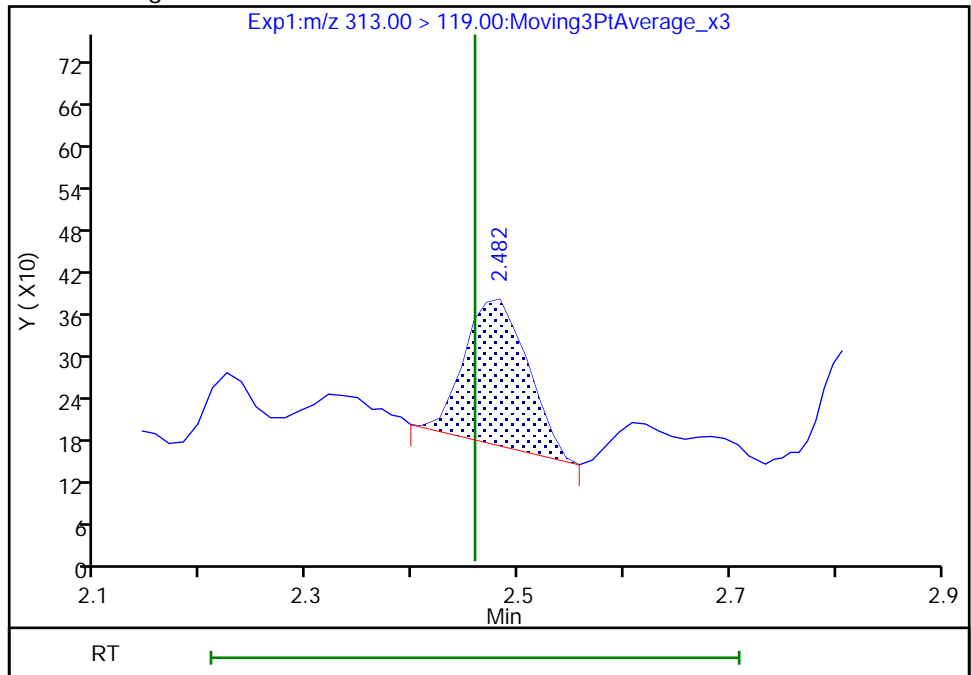
Not Detected  
Expected RT: 2.46

Processing Integration Results



RT: 2.48  
Area: 871  
Amount: 0.076758  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

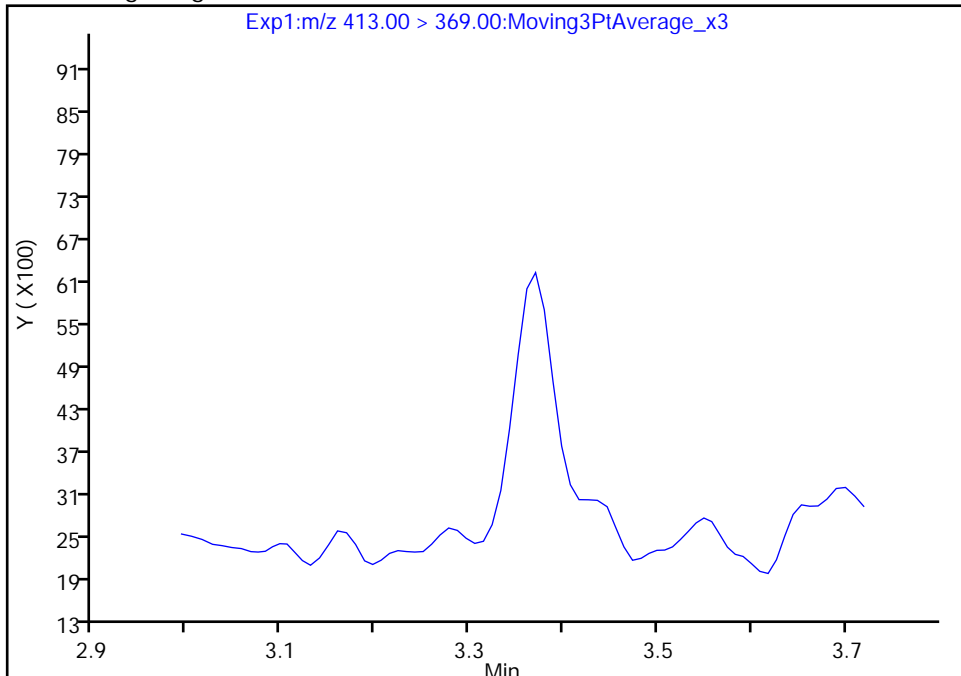
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Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

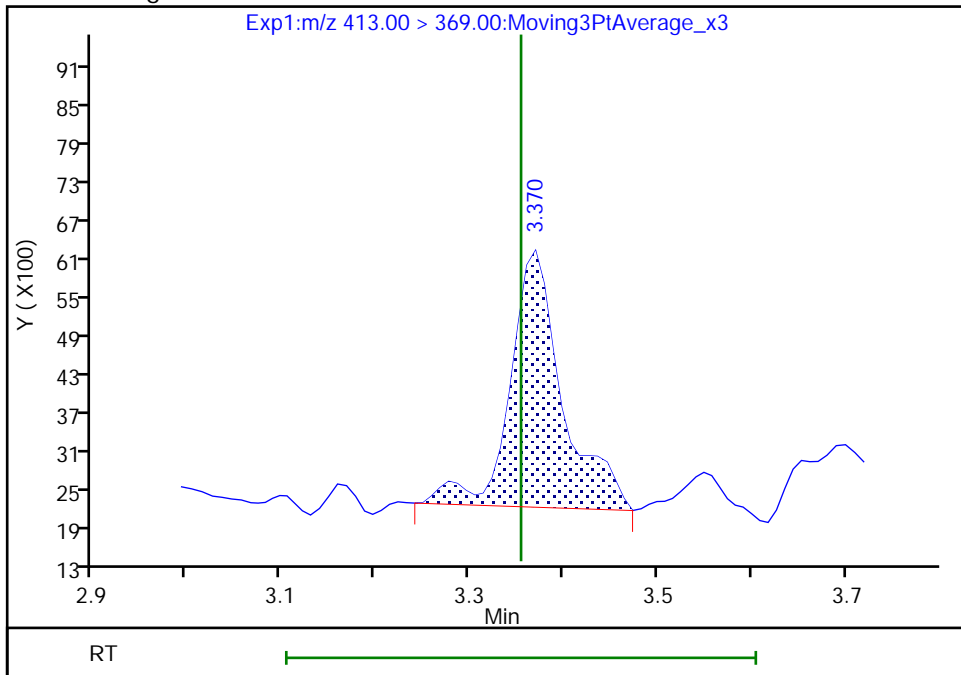
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.37  
Area: 15526  
Amount: 0.214273  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:29:59  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

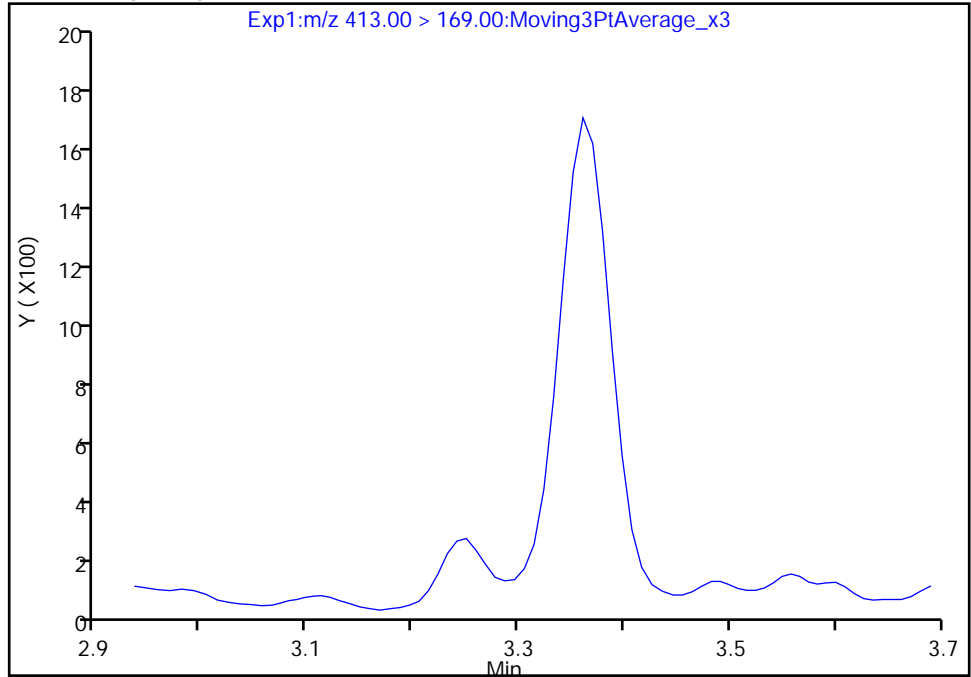
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Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

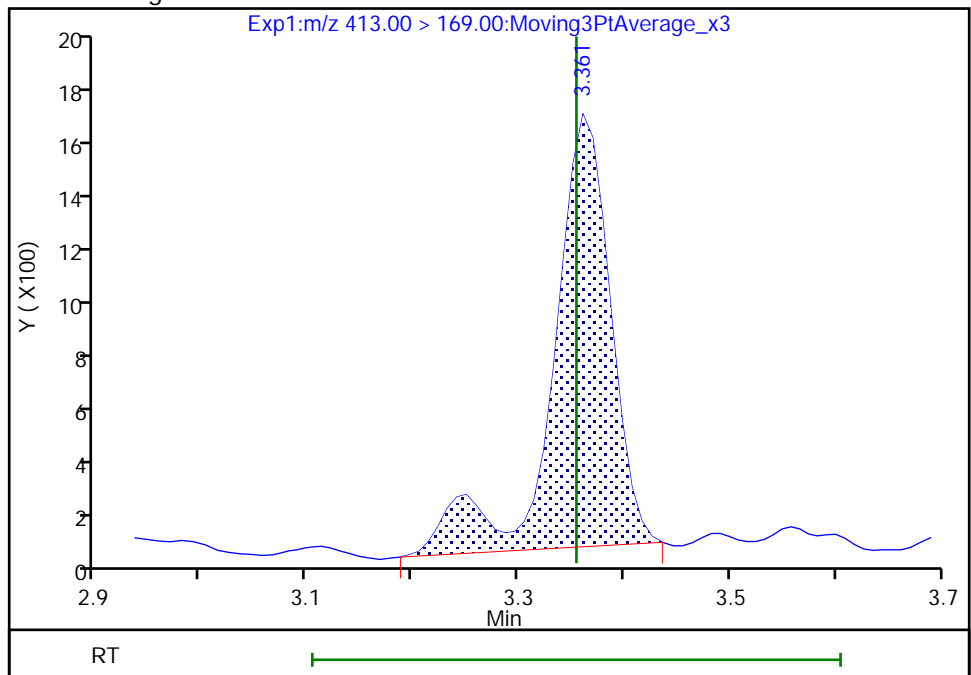
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.36  
Area: 6170  
Amount: 0.214273  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

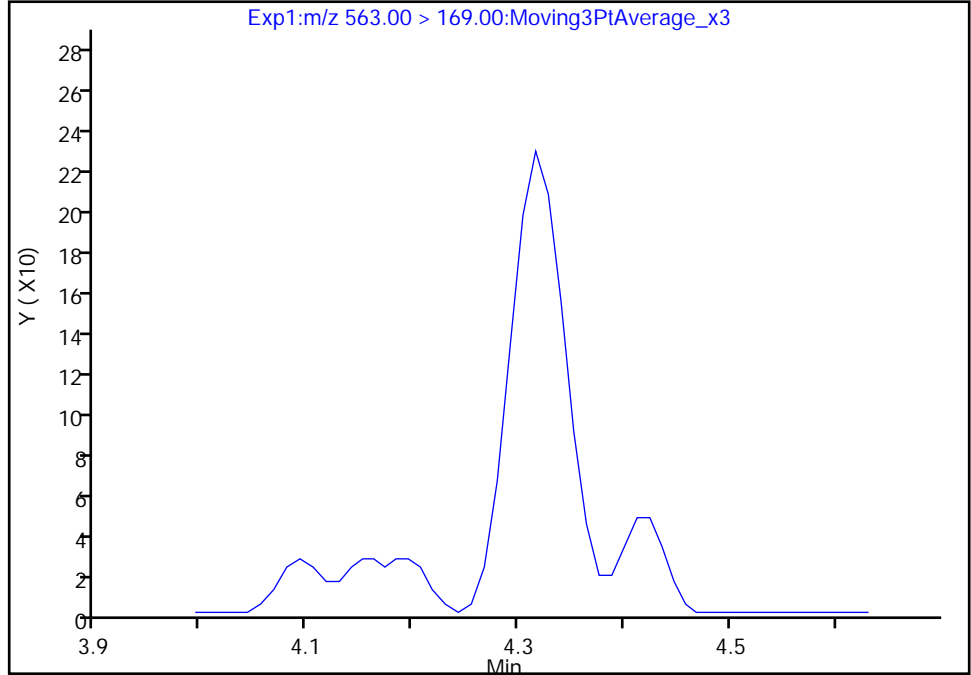
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Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

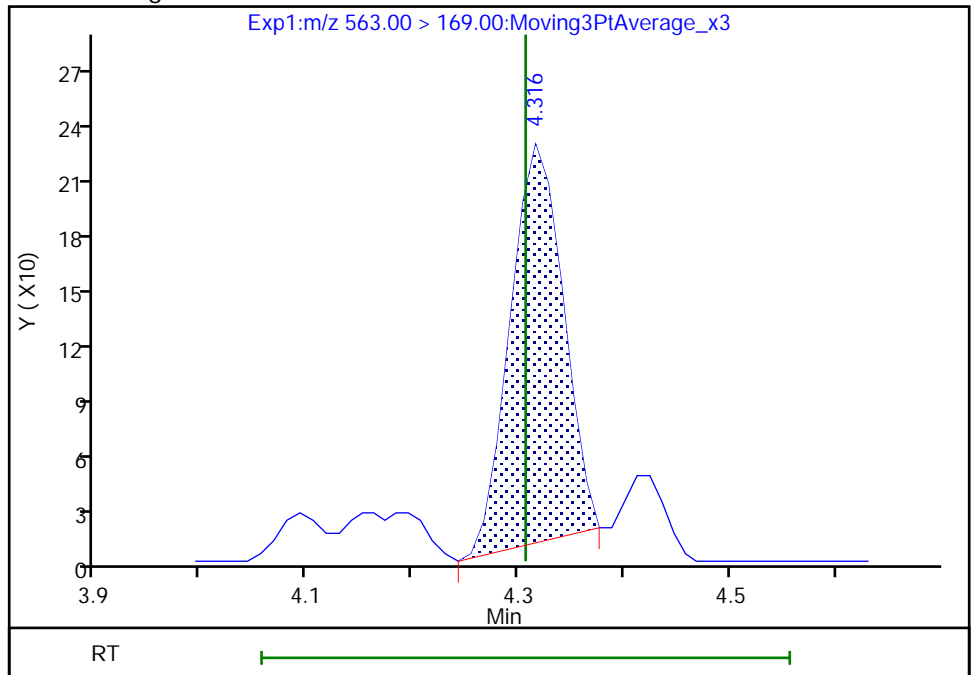
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 745  
Amount: 0.121259  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:31:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

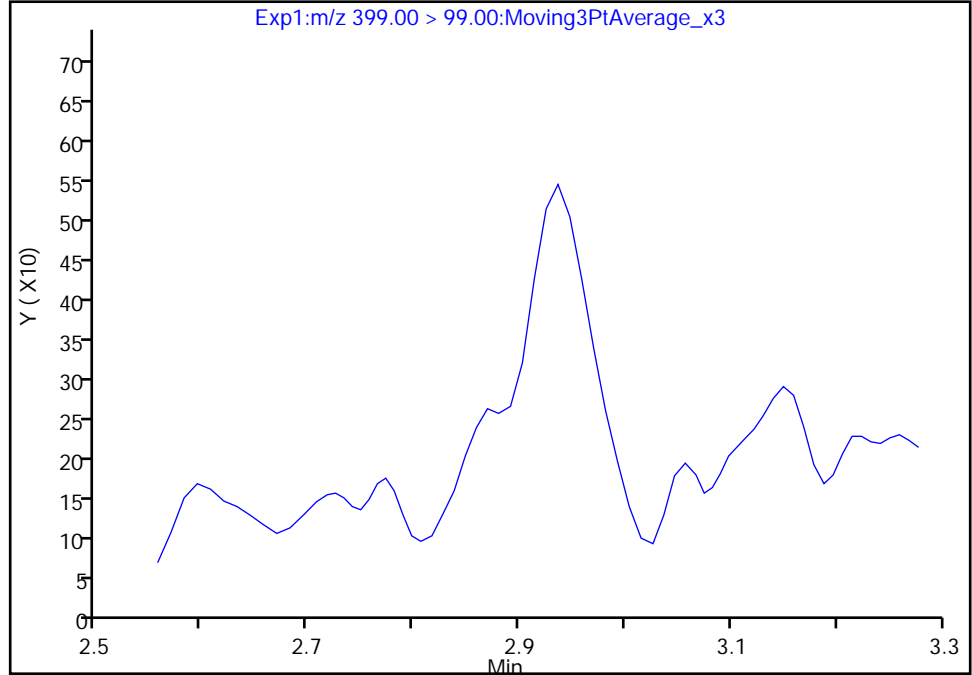
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Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

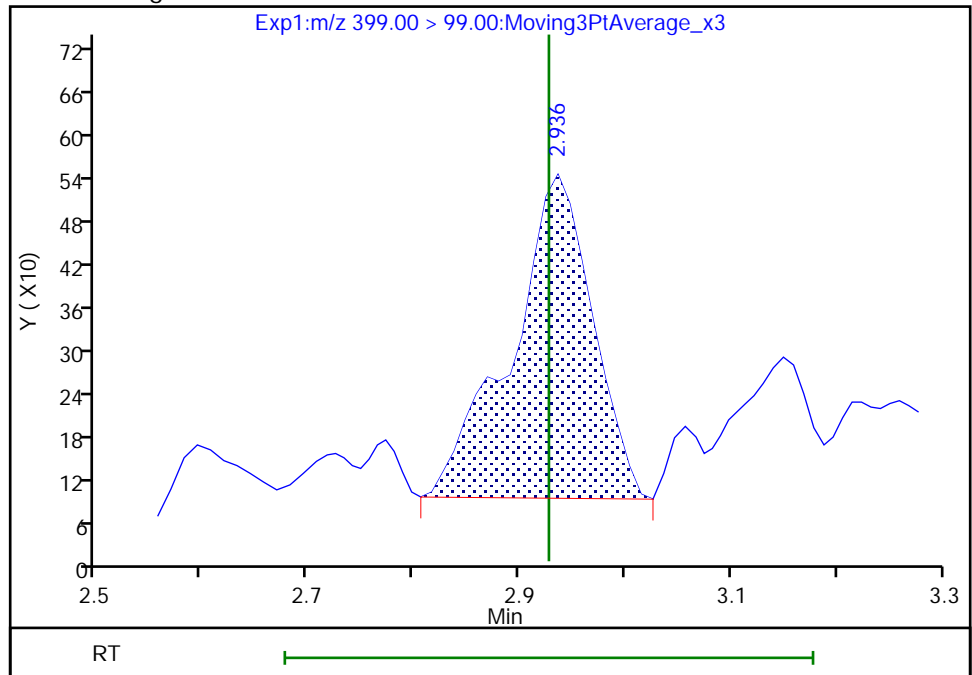
Not Detected  
Expected RT: 2.93

Processing Integration Results



RT: 2.94  
Area: 2416  
Amount: 0.191253  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:29:10  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

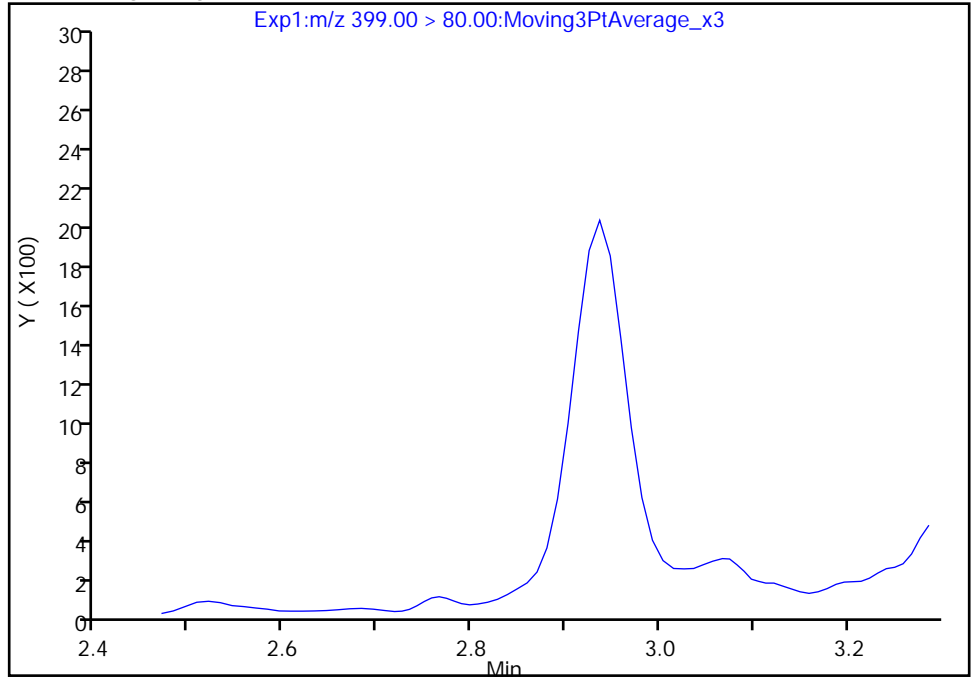
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E019.d  
Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

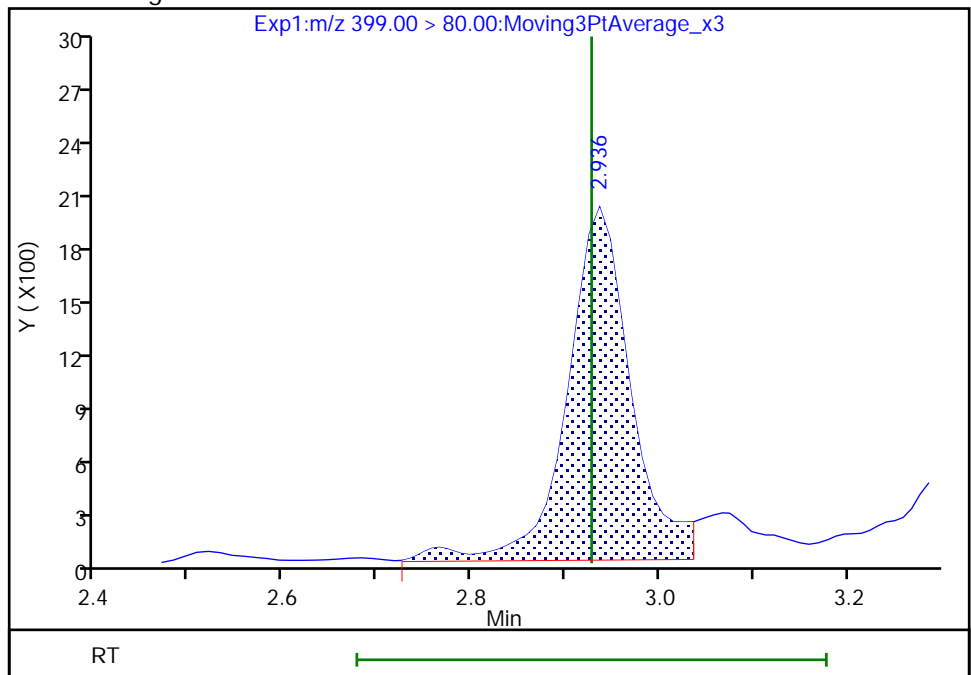
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 9321  
Amount: 0.191253  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

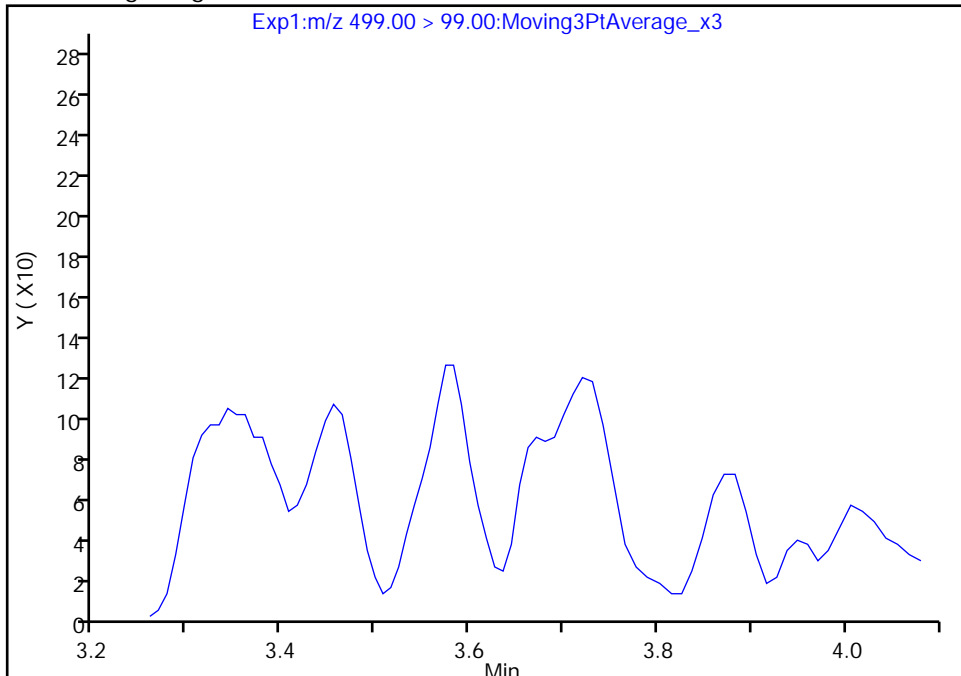
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Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

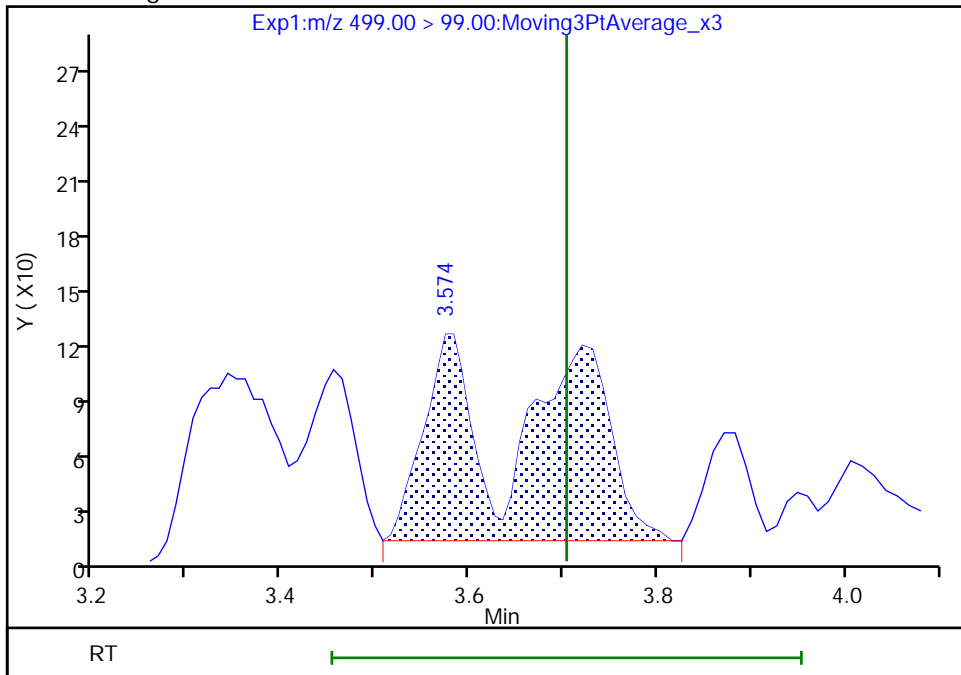
Not Detected  
Expected RT: 3.70

Processing Integration Results



RT: 3.57  
Area: 977  
Amount: 0.103281  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:30:27  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

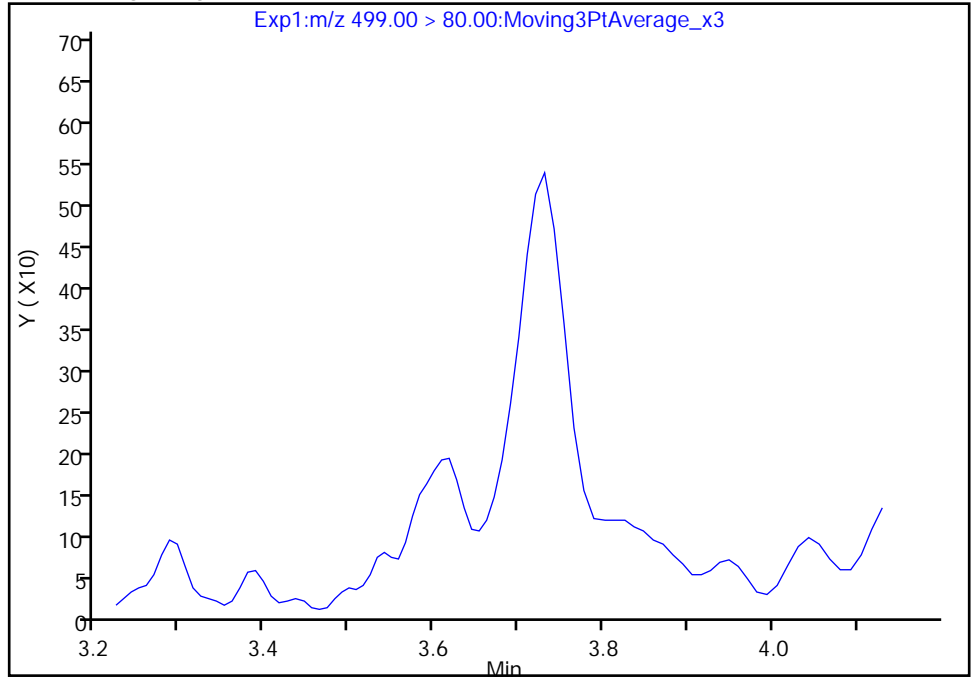
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Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

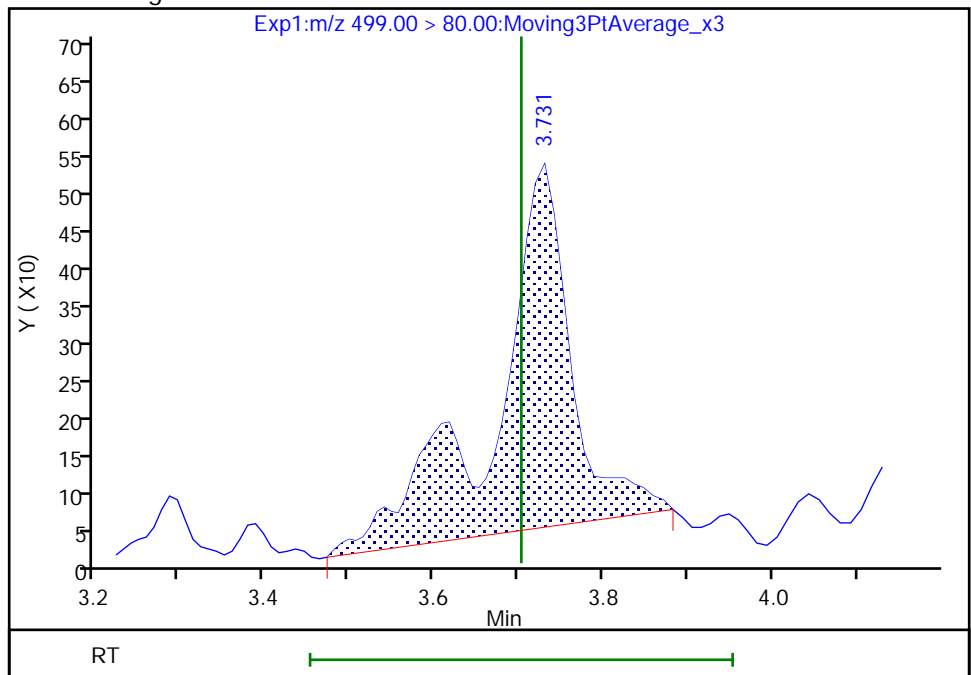
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.73  
Area: 3045  
Amount: 0.103281  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:30:27

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

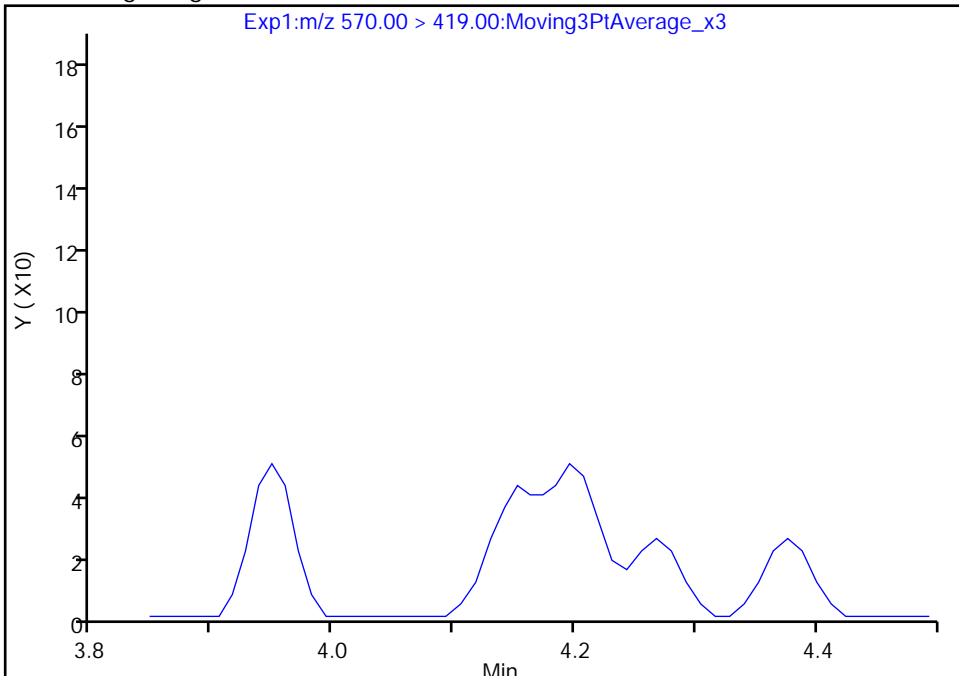
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E019.d  
Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

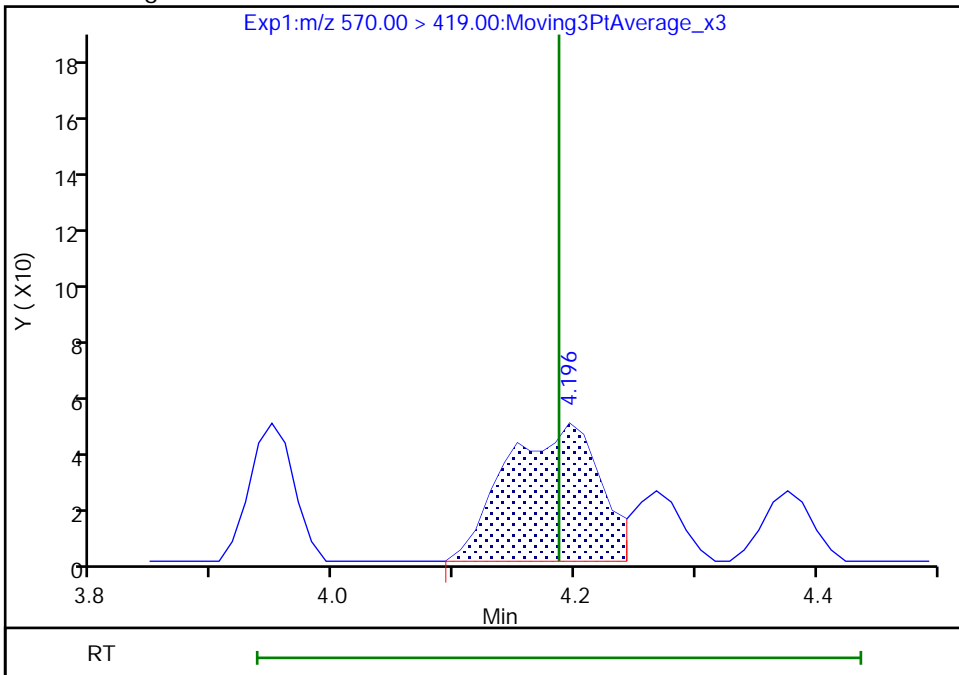
Not Detected  
Expected RT: 4.19

Processing Integration Results



Manual Integration Results

RT: 4.20  
Area: 262  
Amount: 0.069582  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:31:18  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

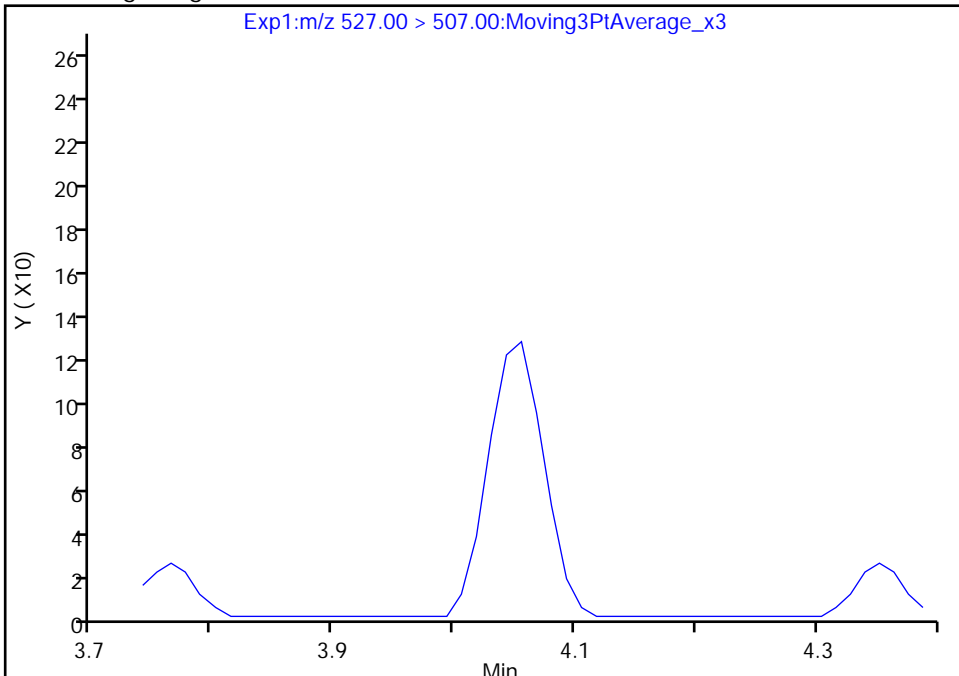
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E019.d  
Injection Date: 02-Aug-2019 06:14:04 Instrument ID: LC812  
Lims ID: 480-156213-F-16-A Lab Sample ID: 200-156213-16  
Client ID: 356023-EB1  
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 19  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

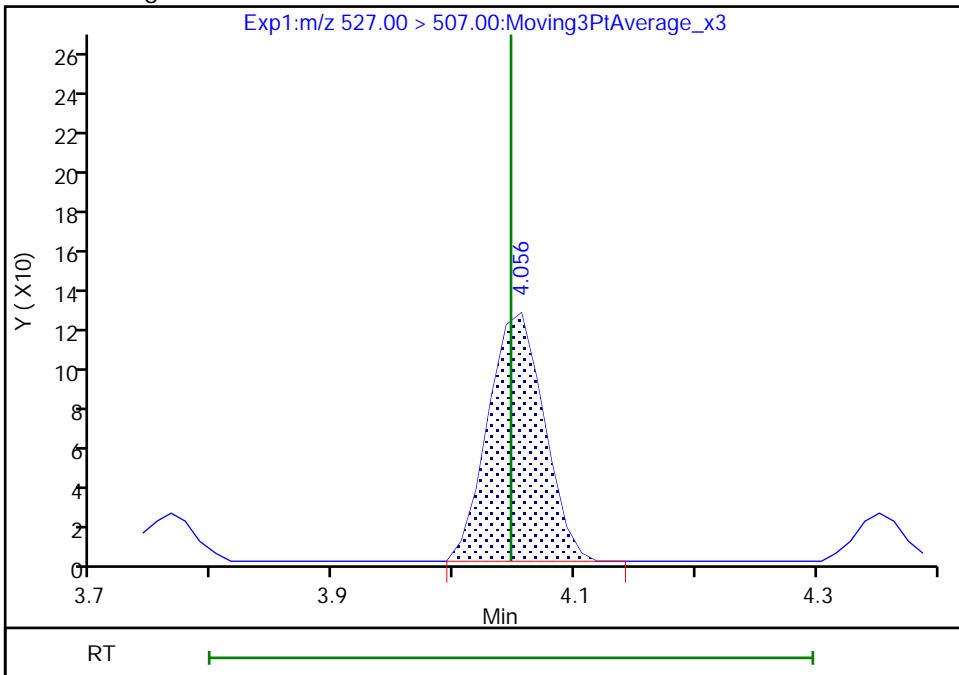
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.06  
Area: 397  
Amount: 0.034309  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:30:42  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1B Lab Sample ID: 480-156213-17  
 Matrix: Water Lab File ID: SC080119E020.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 11:15  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 313.2 (mL) Date Analyzed: 08/02/2019 06:22  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	3.1		1.6	0.80
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.0	J	1.6	0.50
307-24-4	Perfluorohexanoic acid (PFHxA)	0.76	J	1.6	0.61
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.73
335-67-1	Perfluorooctanoic acid (PFOA)	2.0		1.6	0.50
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.61
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.42
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.47
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.48
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.73
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.67	J	1.6	0.39
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.64
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.76
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.72
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.60	J	1.6	0.49
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.0	8.0
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.7
39108-34-4	8:2 FTS	ND		16	2.3

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW1B Lab Sample ID: 480-156213-17  
 Matrix: Water Lab File ID: SC080119E020.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 11:15  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 313.2 (mL) Date Analyzed: 08/02/2019 06:22  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	77		25-150
STL00992	13C4 PFBA	58		25-150
STL01893	13C5 PFPeA	81		25-150
STL00993	13C2 PFHxA	85		50-150
STL01892	13C4 PFHpA	92		50-150
STL00990	13C4 PFOA	87		50-150
STL00995	13C5 PFNA	85		50-150
STL00996	13C2 PFDA	92		50-150
STL00997	13C2 PFUnA	87		50-150
STL00998	13C2 PFDoA	79		50-150
STL02116	13C2 PFTeDA	64		50-150
STL02337	13C3 PFBS	86		50-150
STL00994	18O2 PFHxS	85		50-150
STL00991	13C4 PFOS	81		50-150
STL02118	d3-NMeFOSAA	69		50-150
STL02117	d5-NEtFOSAA	69		50-150
STL02279	M2-6:2 FTS	107		25-150
STL02280	M2-8:2 FTS	109		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
 Lims ID: 480-156213-F-17-A  
 Client ID: 356023-MW1B  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 06:22:07 ALS Bottle#: 13 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-17-A  
 Misc. Info.: 200-0037095-020 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:35:38  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.506	2208047	29.1	58.3	7338	
2 Perfluorobutanoic acid	212.90 > 169.00	1.717	1.699	0.018	1.005	79932	1.96		12.3	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.613	2874235	40.4	80.8	4593	
4 Perfluoropentanoic acid	262.90 > 219.00	2.080	2.067	0.013	1.006	35412	0.6366		1.1	M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.620	2808042	40.2	86.4	182691	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.106	2.093	0.013	1.006	25782	0.4200	Target=1.90	4.9	M
	298.90 > 99.00	2.093	2.093	0.0	1.000	11499		2.24(0.95-2.85)	3.2	
D 7 13C2 PFHxA	315.00 > 270.00	2.470	2.459	0.011	0.732	2988515	42.3	84.6	6524	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.000	29183	0.4741	Target=13.23	2.9	M
	313.00 > 119.00	2.470	2.459	0.011	1.000	2075		14.06(6.61-19.84)	2.6	
D 11 18O2 PFHxS	403.00 > 84.00	2.939	2.916	0.023	0.871	1654519	40.4	85.4	5688	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.871	3174792	45.9	91.7	9239	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.950	2.928	0.022	1.004	10206	0.2214	Target=3.37	3.9	M
	399.00 > 99.00	2.939	2.928	0.011	1.000	2966		3.44(1.69-5.06)	2.5	M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.939	2.928	0.011	1.000	15759	0.2650	Target=3.76	1.9	
	363.00 > 169.00	2.939	2.928	0.011	1.000	4445		3.55(1.88-5.65)	11.4	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.355	3.335	0.020	0.995	433903	50.9		107	398	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.364	3.336	0.028	1.003	9555	0.6099		27.6		M
D 14 13C4 PFOA										
417.00 > 372.00	3.373	3.344	0.029	1.000	3182189	43.5		87.0	13228	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.373	3.355	0.018	1.000	87080	1.26	Target=2.84	7.4		M
413.00 > 169.00	3.373	3.355	0.018	1.000	39295		2.22(1.42-4.25)	76.8		M
* 62 13C2 PFOA										
415.00 > 370.00	3.373	3.355	0.018		4020529	50.0			9949	
D 18 13C4 PFOS										
503.00 > 80.00	3.723	3.695	0.028	1.104	1320752	38.7		81.0	1981	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.594	3.703	-0.109	0.965	9804	0.3749	Target=4.33	6.8		M
499.00 > 99.00	3.713	3.703	0.010	0.997	3045		3.22(2.16-6.49)	3.5		M
D 19 13C5 PFNA										
468.00 > 423.00	3.745	3.715	0.030	1.110	2839214	42.6		85.1	11335	
D 23 13C2 PFDA										
515.00 > 470.00	4.059	4.036	0.023	1.203	2443747	45.8		91.6	7652	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.072	4.036	0.036	1.207	410087	52.2		109	573	
D 21 13C8 FOSA										
506.00 > 78.00	4.084	4.061	0.023	1.211	2349749	38.4		76.7	8325	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.084	4.072	0.012	1.000	2594	0.0605		26.0		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.198	4.178	0.020	1.245	234277	34.4		68.7	2003	
28 N-methylperfluorooctanesulfonamido										M
570.00 > 419.00	4.122	4.187	-0.065	0.982	134	0.0378		0.3		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.280	2123485	43.7		87.4	8255	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.319	4.307	0.012	1.000	8779	0.2409	Target=7.95	3.4		
563.00 > 169.00	4.331	4.307	0.024	1.003	764		11.49(3.98-11.93)	7.1		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.331	4.308	0.023	1.284	260283	34.3		68.5	858	
D 36 13C2 PFDoA										
615.00 > 570.00	4.562	4.537	0.025	1.352	2055164	39.3		78.6	8629	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.778	4.760	0.018	1.047	3487	0.0925	Target=5.71	0.7		M
663.00 > 169.00	4.769	4.760	0.009	1.045	898		3.88(2.85-8.56)	8.9		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.965	0.014	1.476	2323246	32.2		64.5	7605	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.979	4.972	0.007	1.000	418	0.0676	Target=1.02	4.5		
713.00 > 219.00	4.965	4.972	-0.007	0.997	367		1.14(0.51-1.54)	5.9		M

## QC Flag Legend

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d

Injection Date: 02-Aug-2019 06:22:07

Instrument ID: LC812

Lims ID: 480-156213-F-17-A

Lab Sample ID: 200-156213-17

Client ID: 356023-MW1B

Operator ID: lc812tech

ALS Bottle#: 13

Worklist Smp#: 20

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

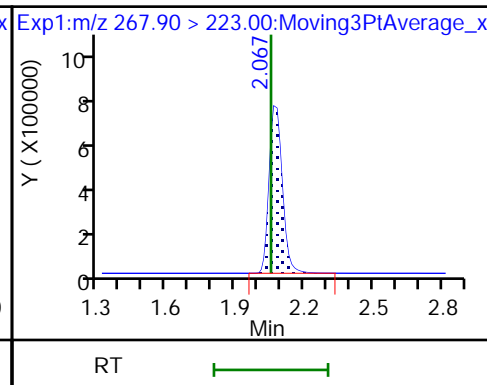
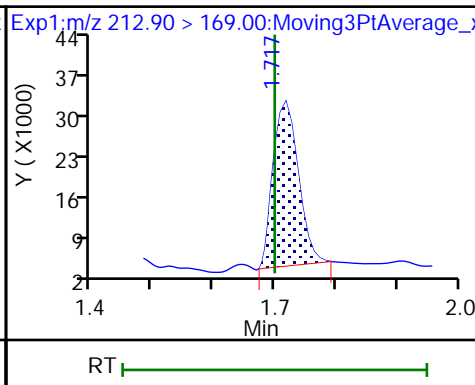
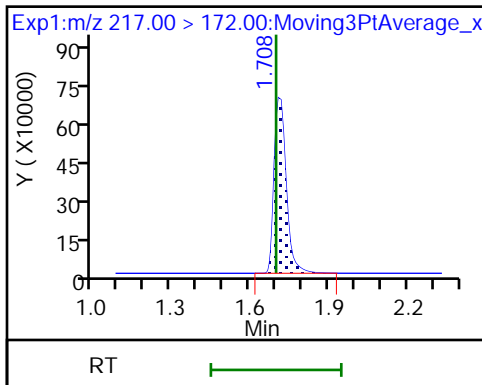
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

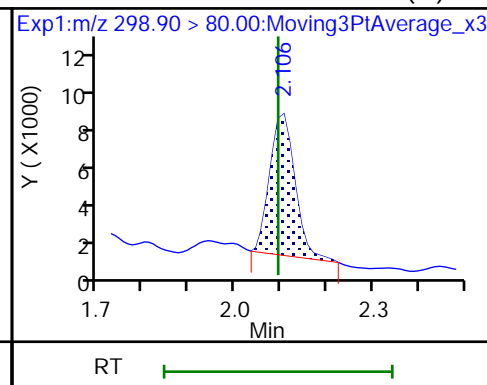
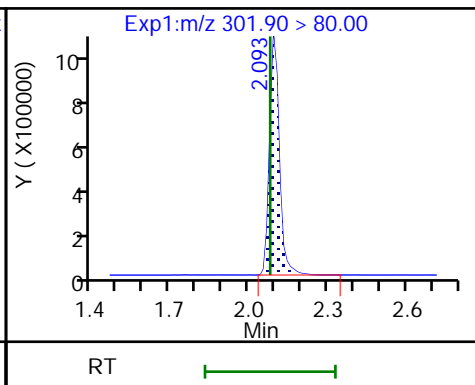
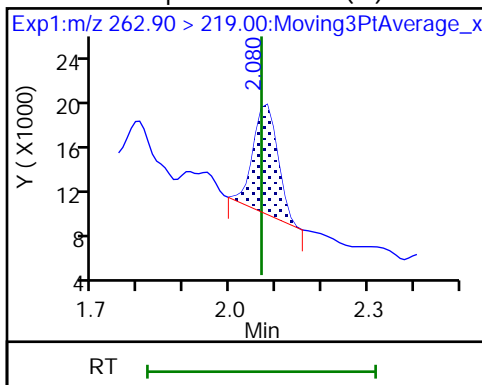
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

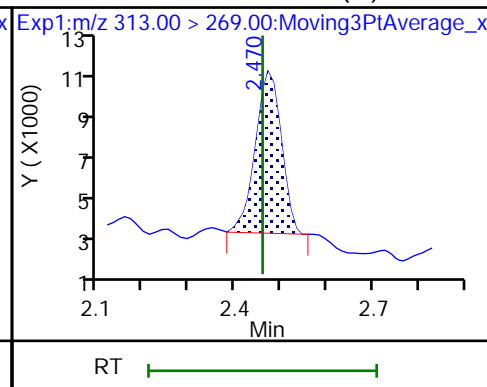
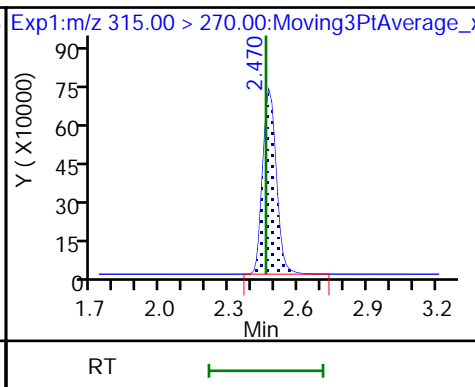
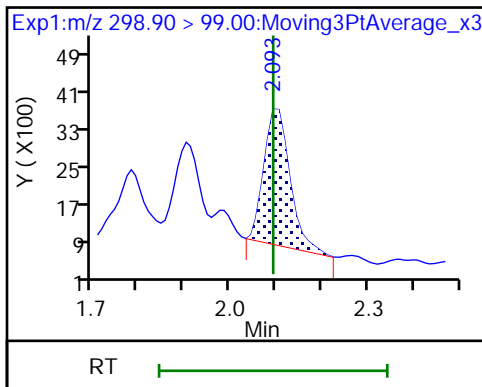
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

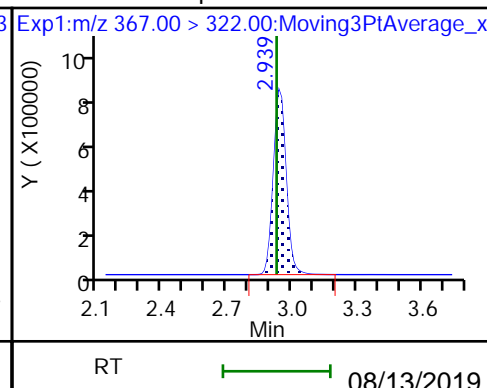
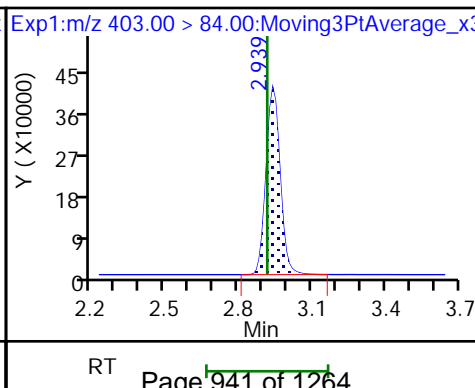
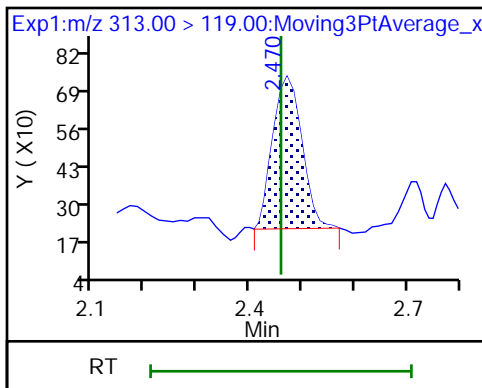
6 Perfluorohexanoic acid (M)

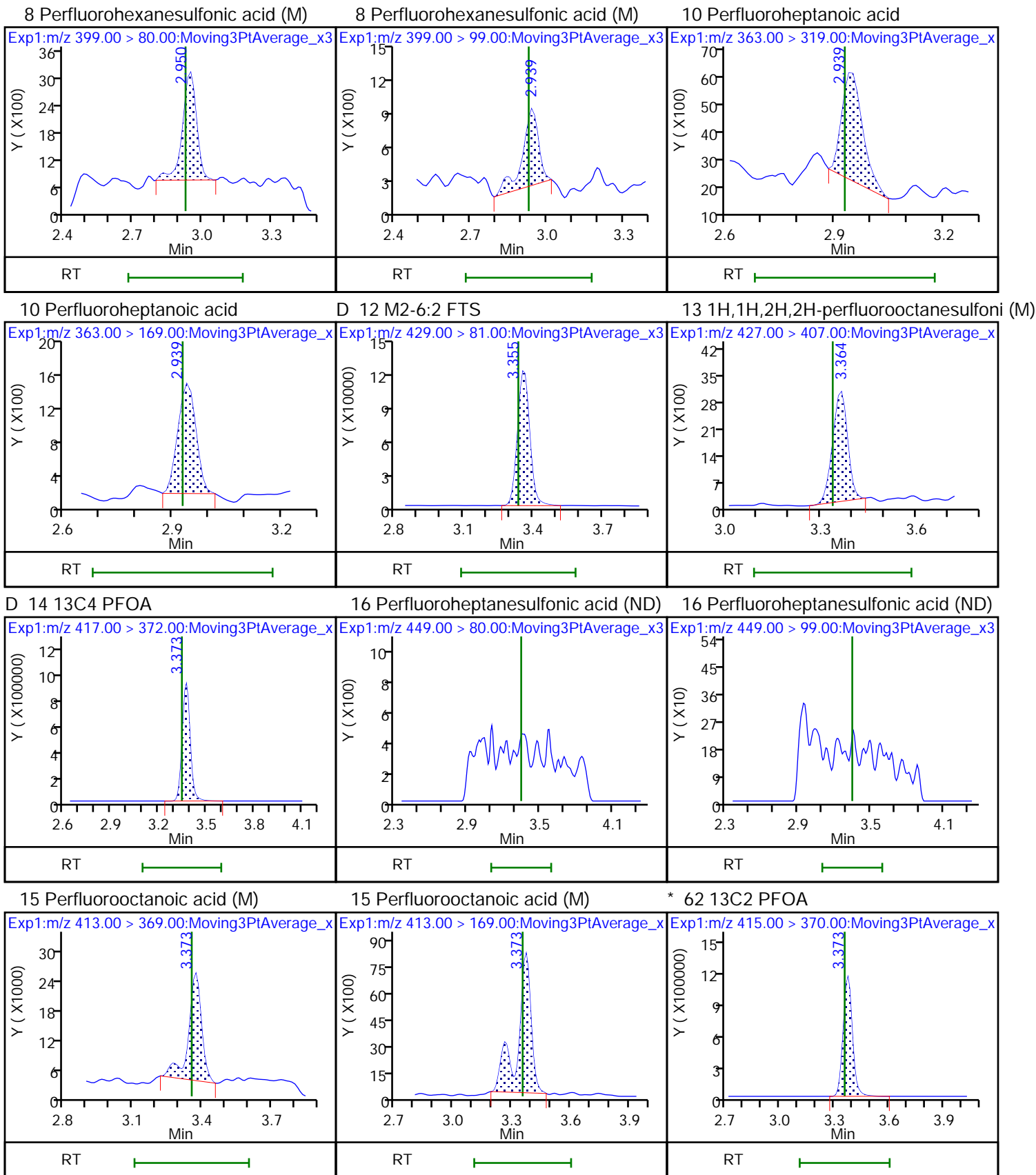


6 Perfluorohexanoic acid

D 11 18O2 PFHxS

D 9 13C4 PFHpA



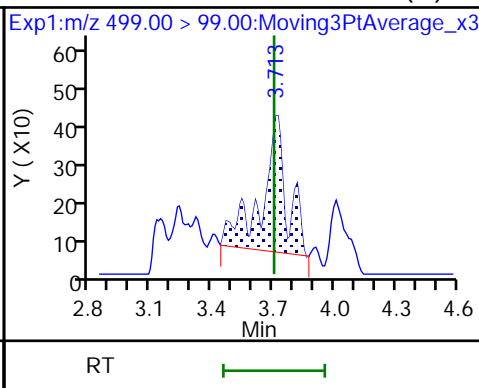
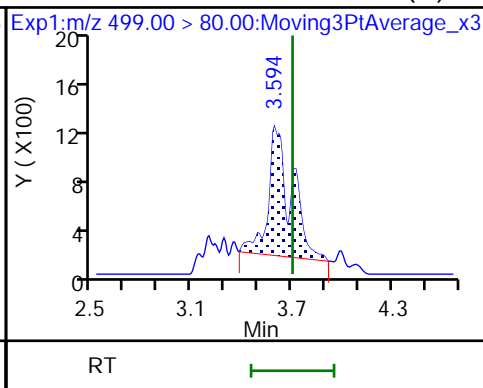
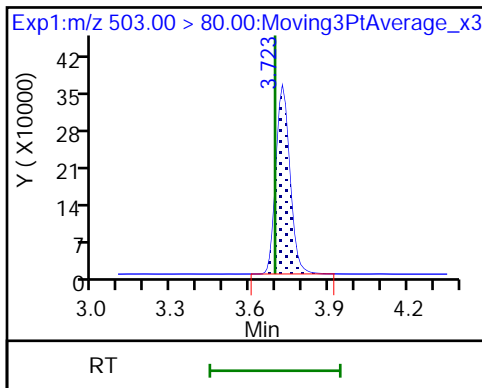




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

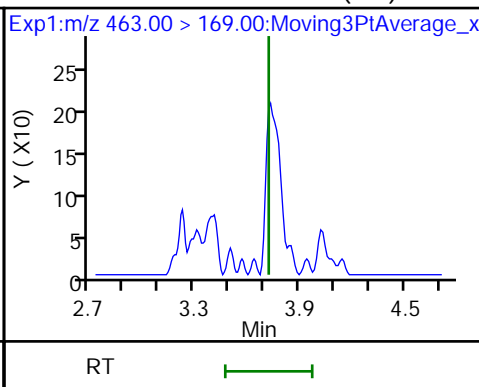
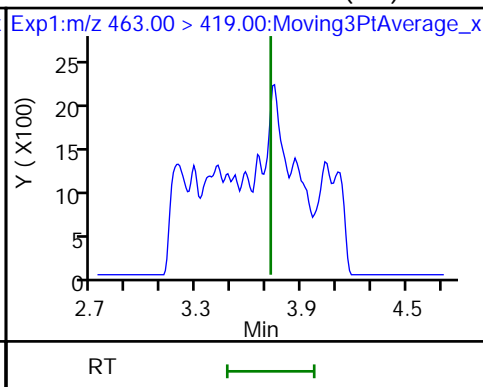
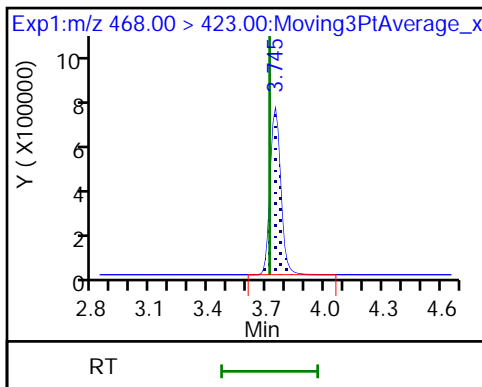
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (ND)

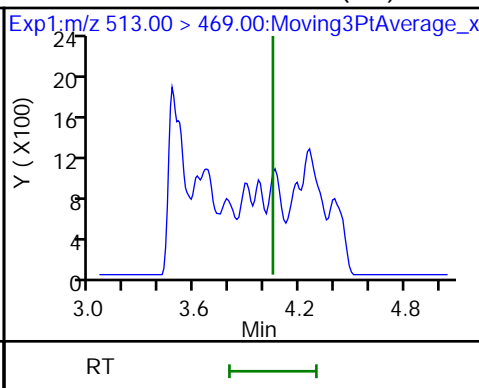
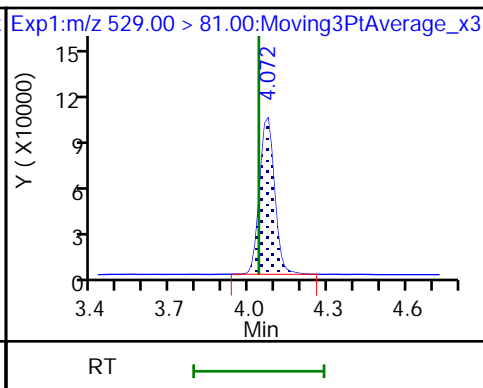
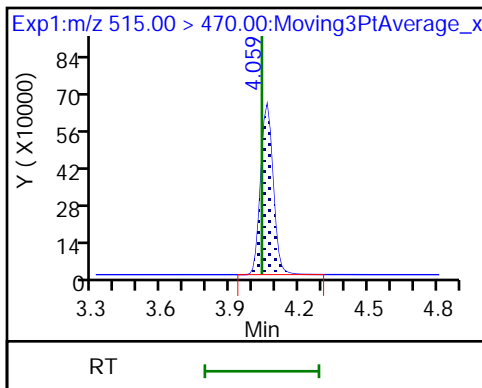
20 Perfluorononanoic acid (ND)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

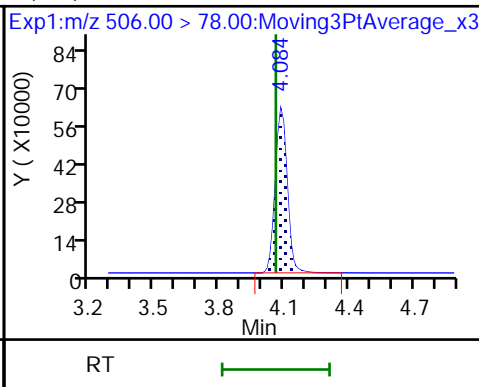
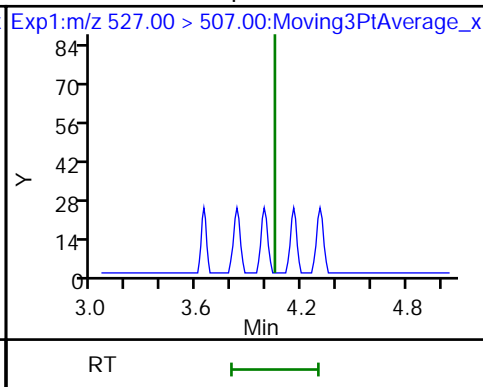
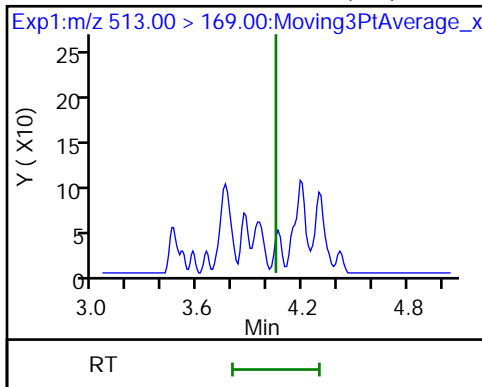
24 Perfluorodecanoic acid (ND)



24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (ND)

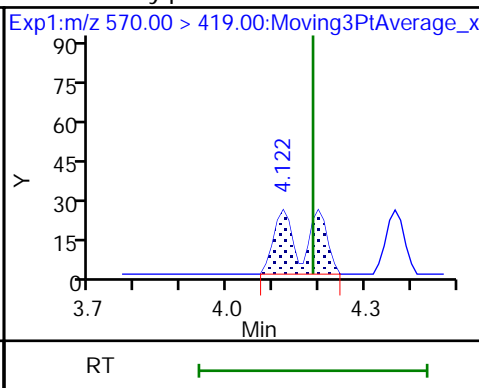
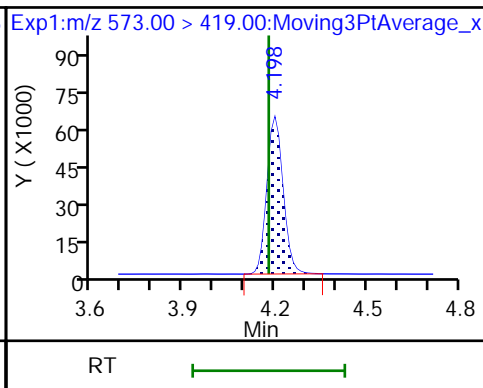
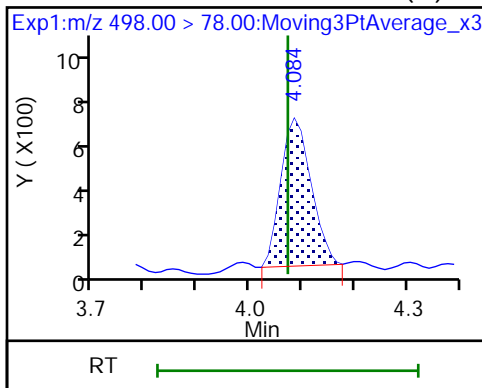
(ND) 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

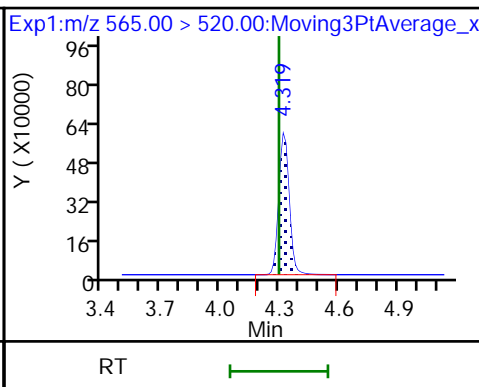
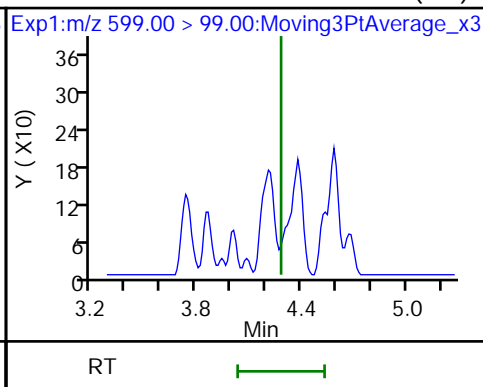
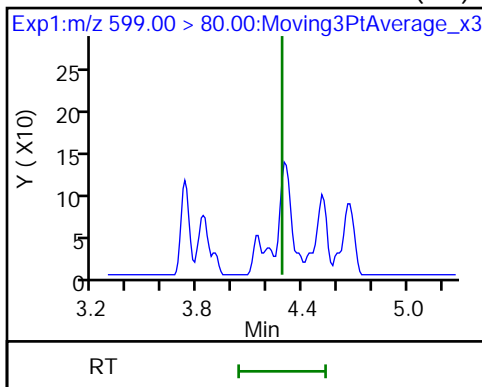
28 N-methylperfluorooctanesulfonamido (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

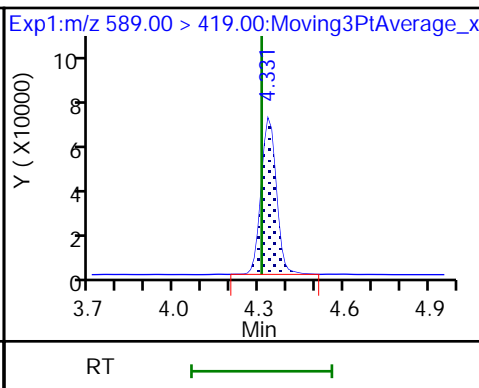
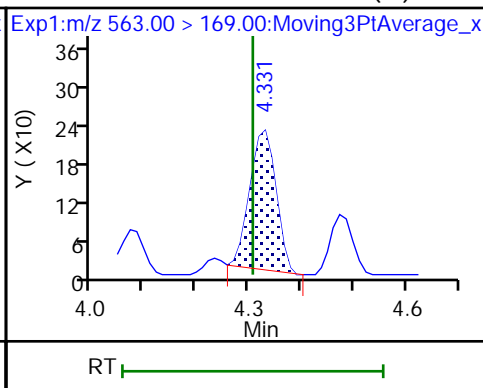
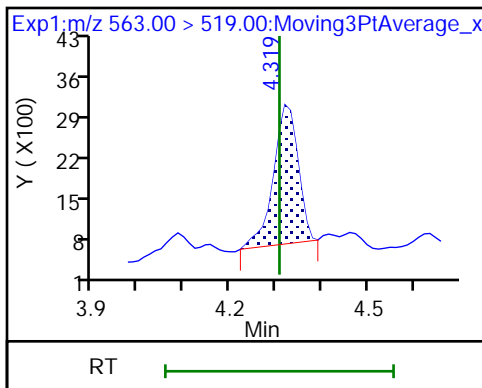
D 30 13C2 PFUa



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

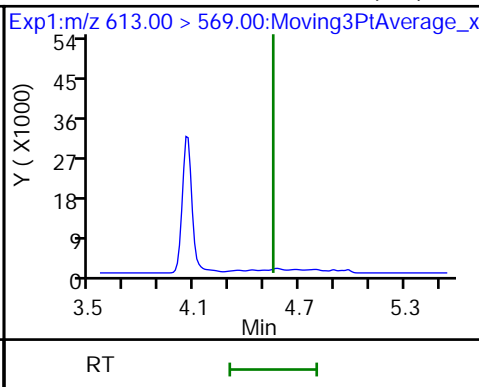
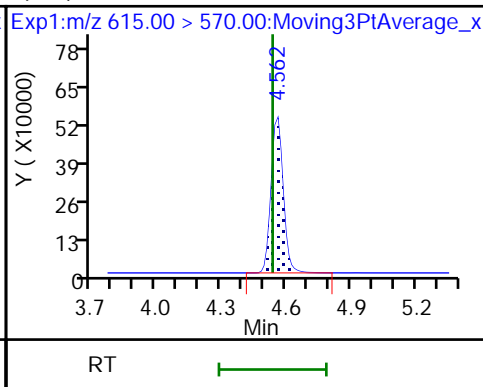
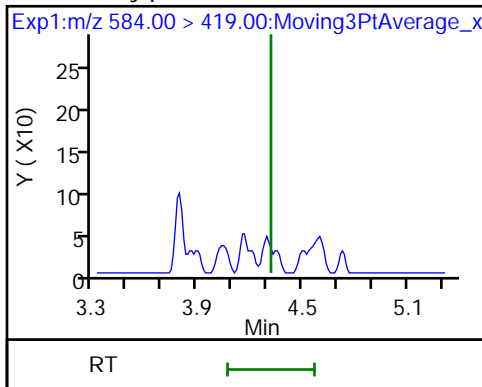
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (M)

D 33 13C2 PFDoA

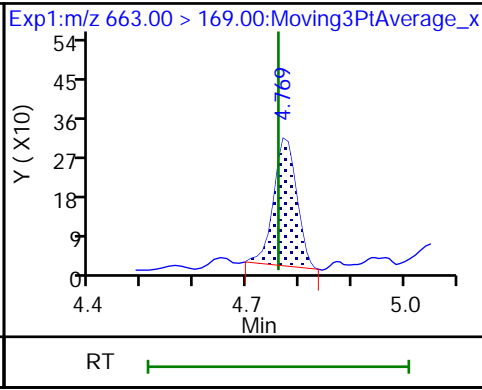
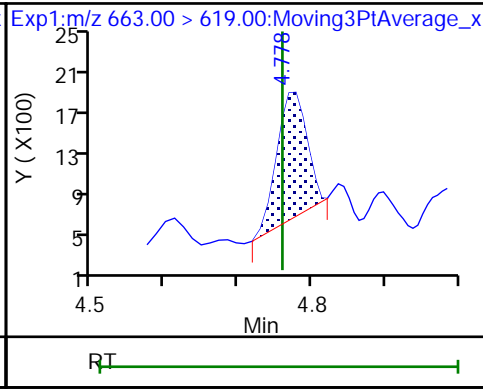
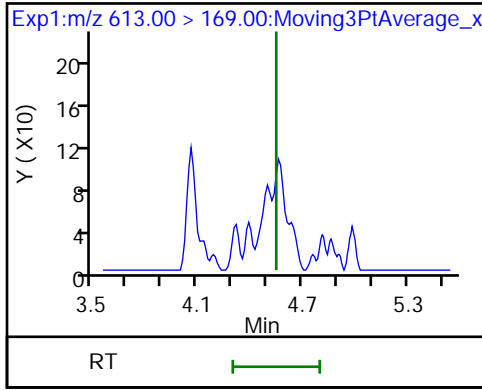
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (M)

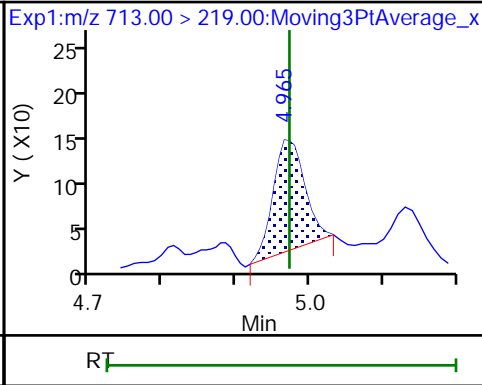
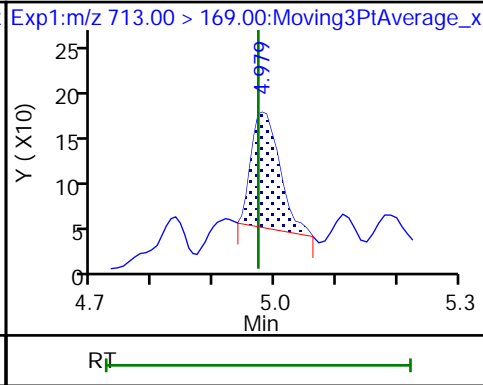
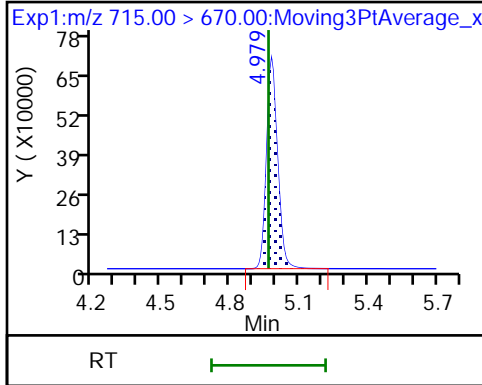
41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

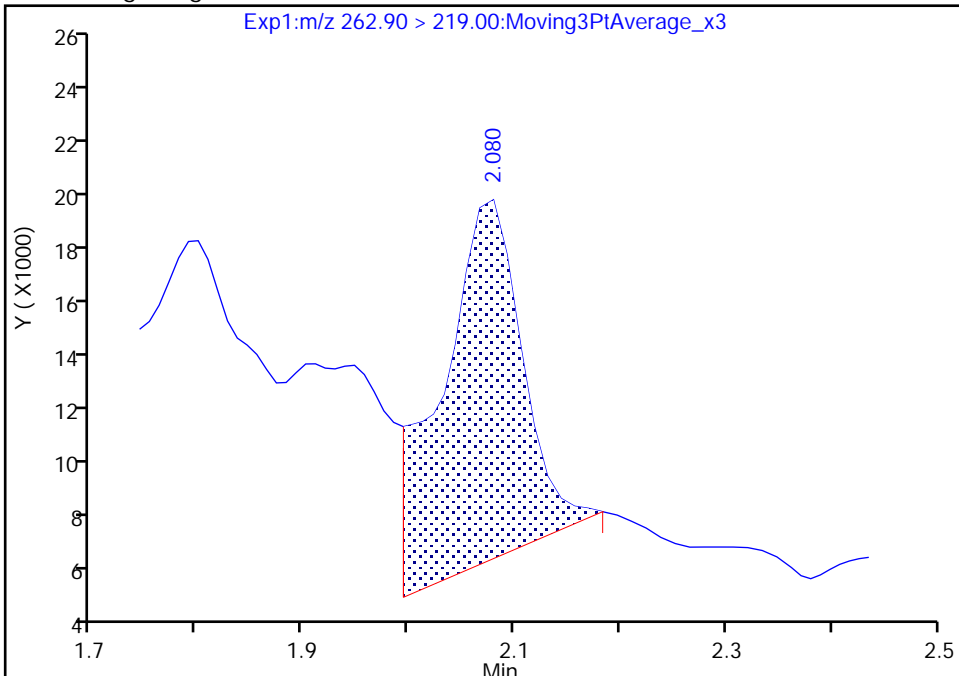
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Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

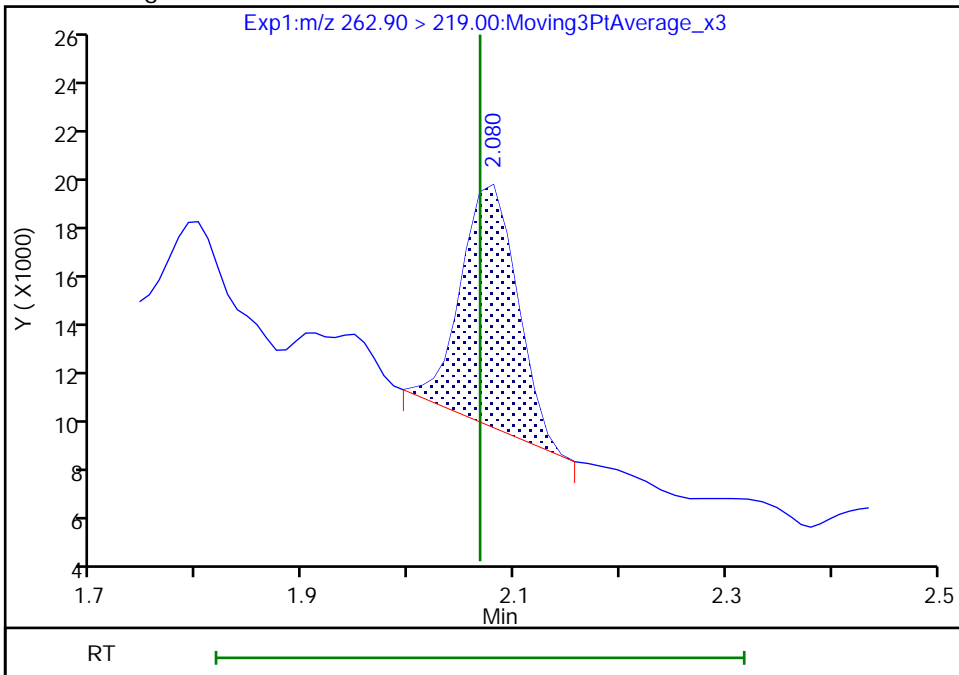
RT: 2.08  
Area: 68586  
Amount: 1.232986  
Amount Units: ng/ml

Processing Integration Results



RT: 2.08  
Area: 35412  
Amount: 0.636609  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:32:43  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

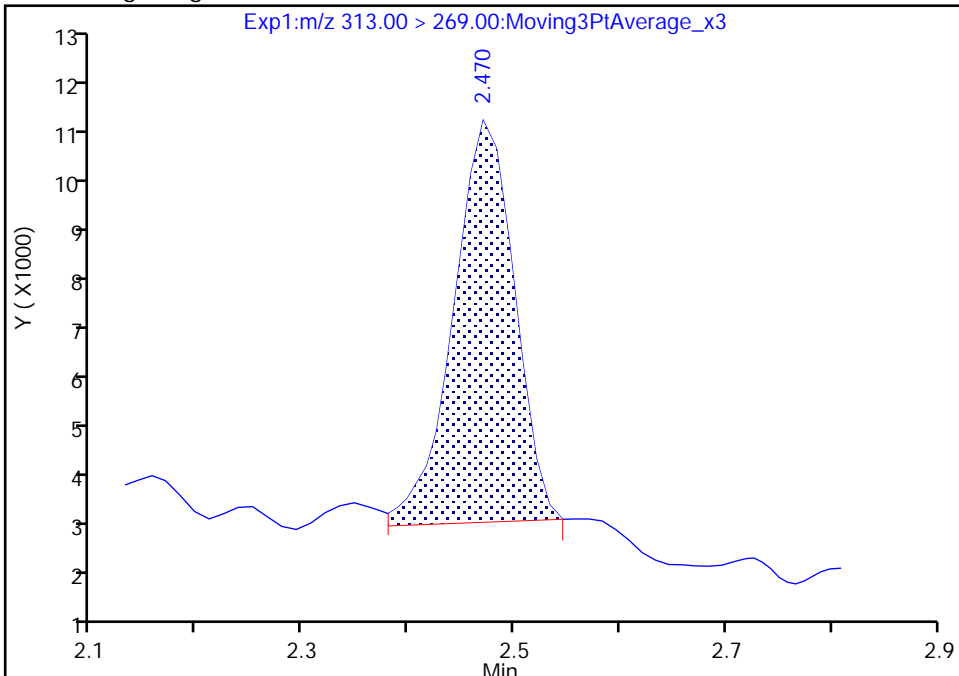
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Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

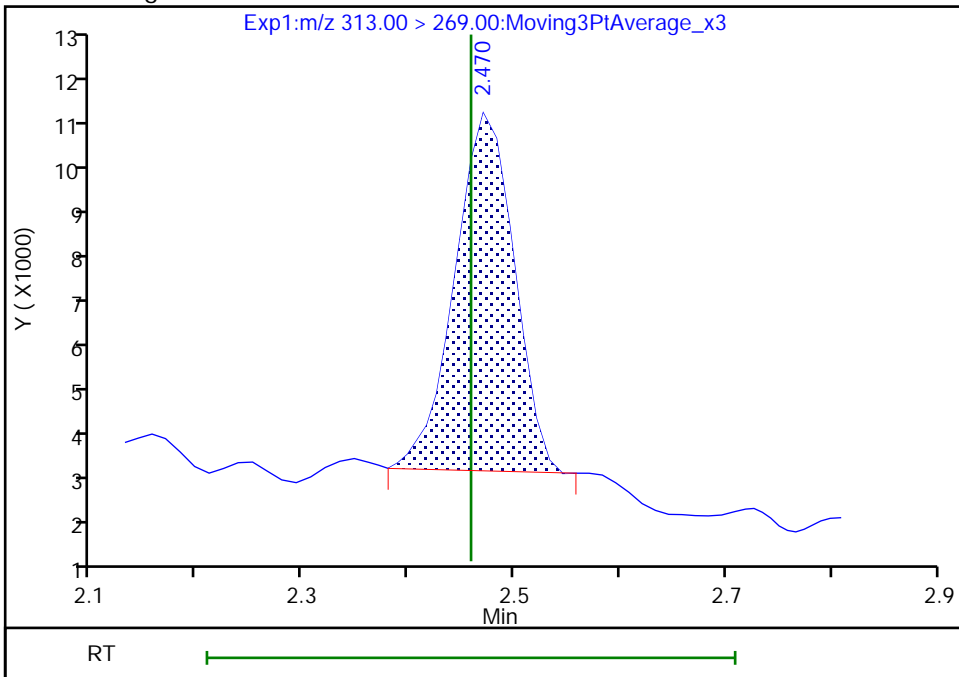
RT: 2.47  
Area: 30402  
Amount: 0.493938  
Amount Units: ng/ml

Processing Integration Results



RT: 2.47  
Area: 29183  
Amount: 0.474133  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:33:03  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

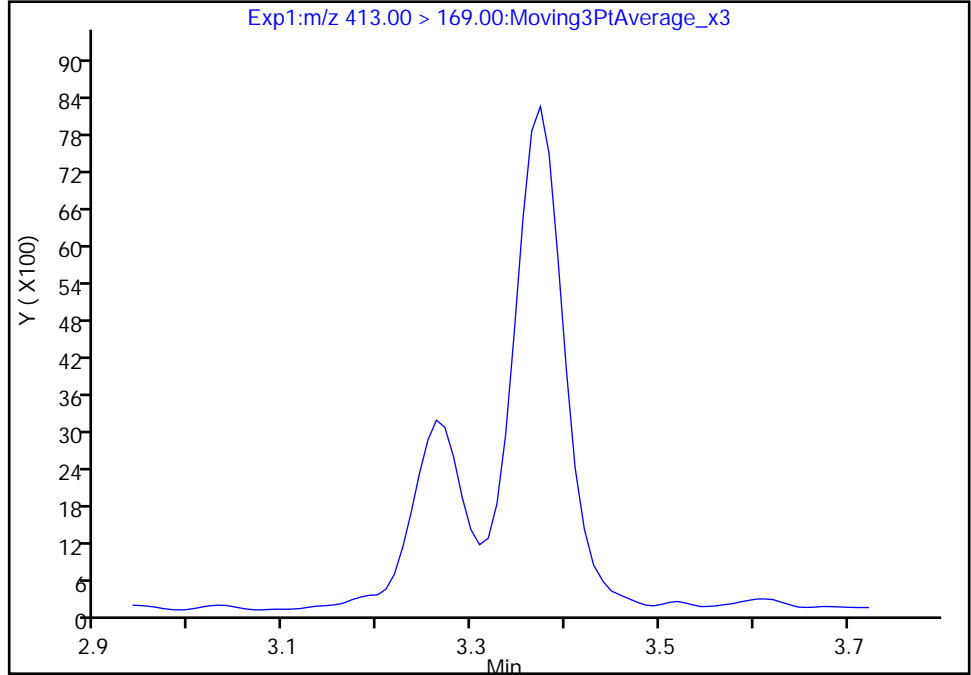
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

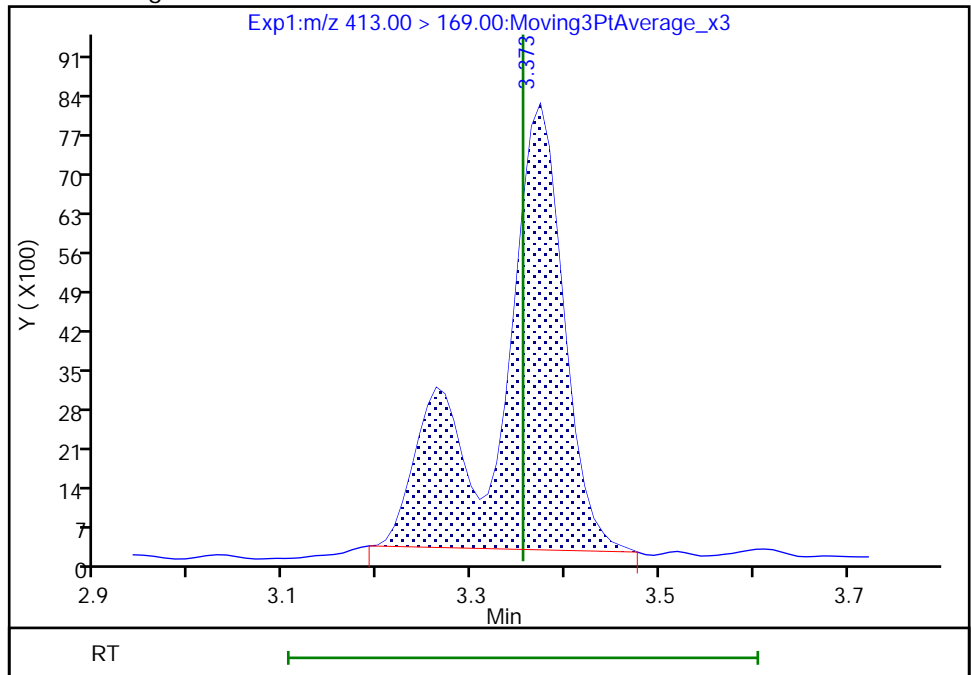
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.37  
Area: 39295  
Amount: 1.257427  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:33:53  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

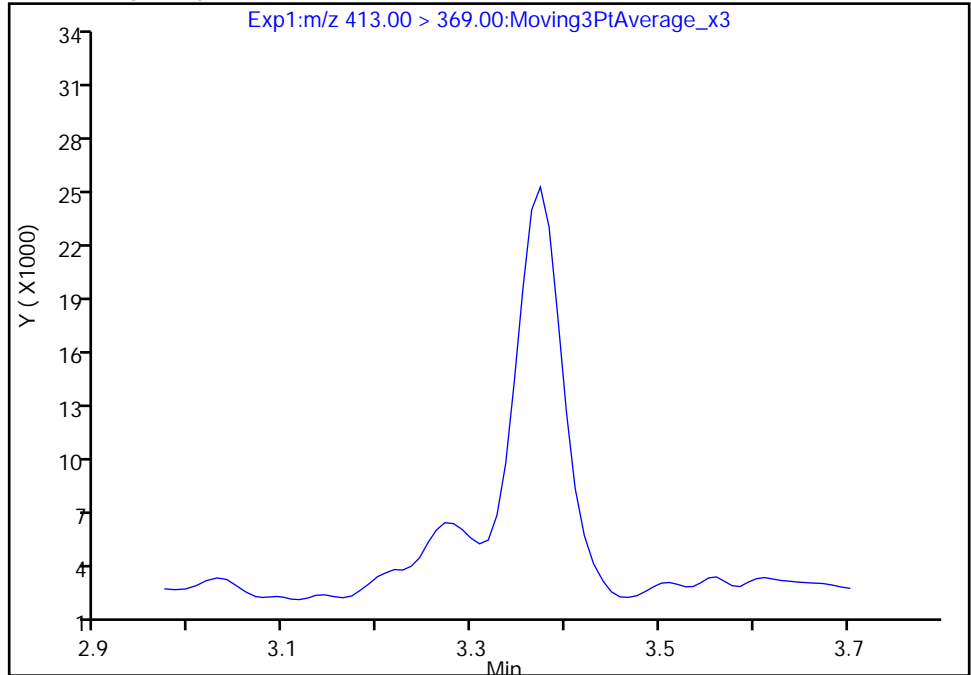
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

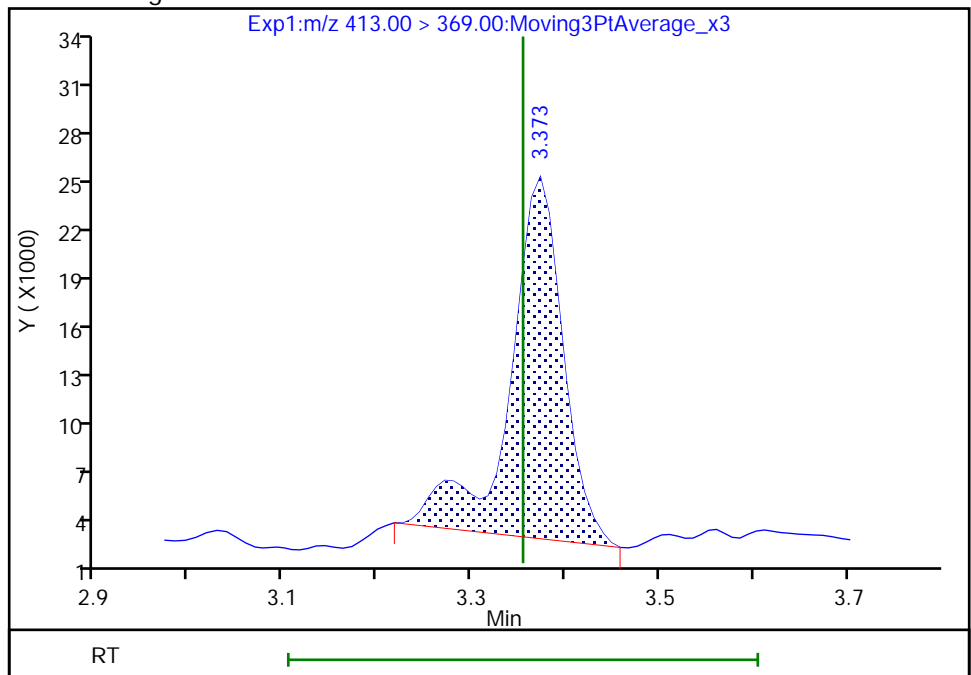
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.37  
Area: 87080  
Amount: 1.257427  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

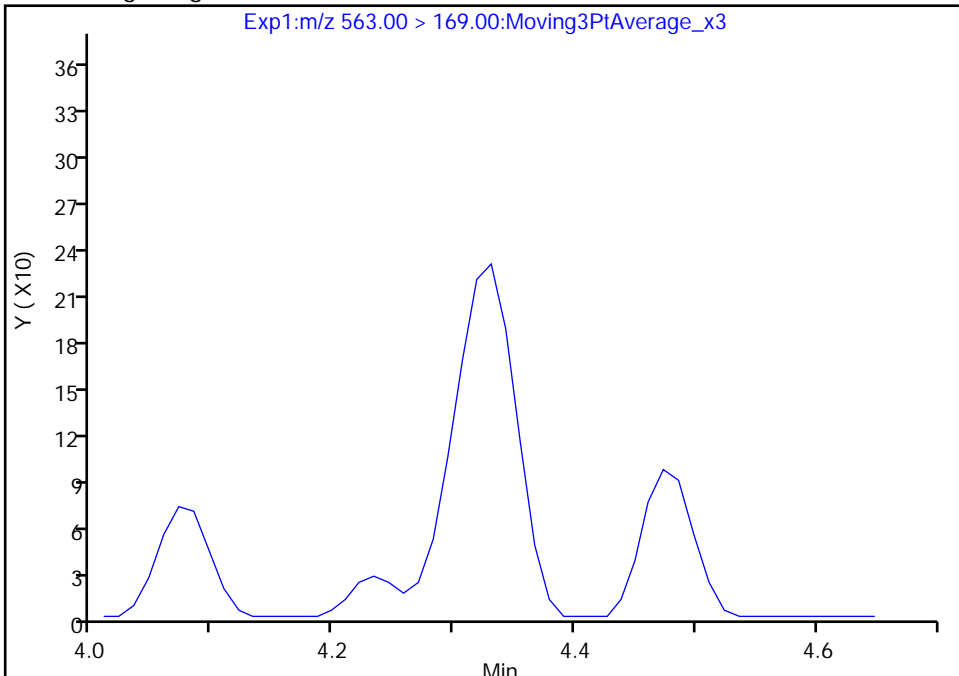
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

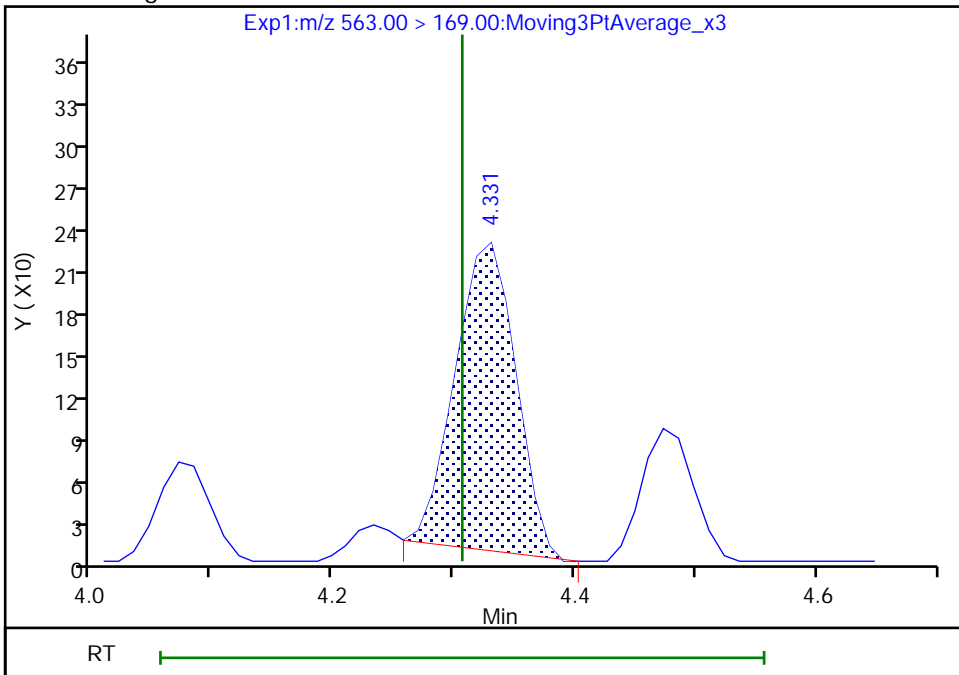
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.33  
Area: 764  
Amount: 0.240908  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:34:47  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 950 of 1264



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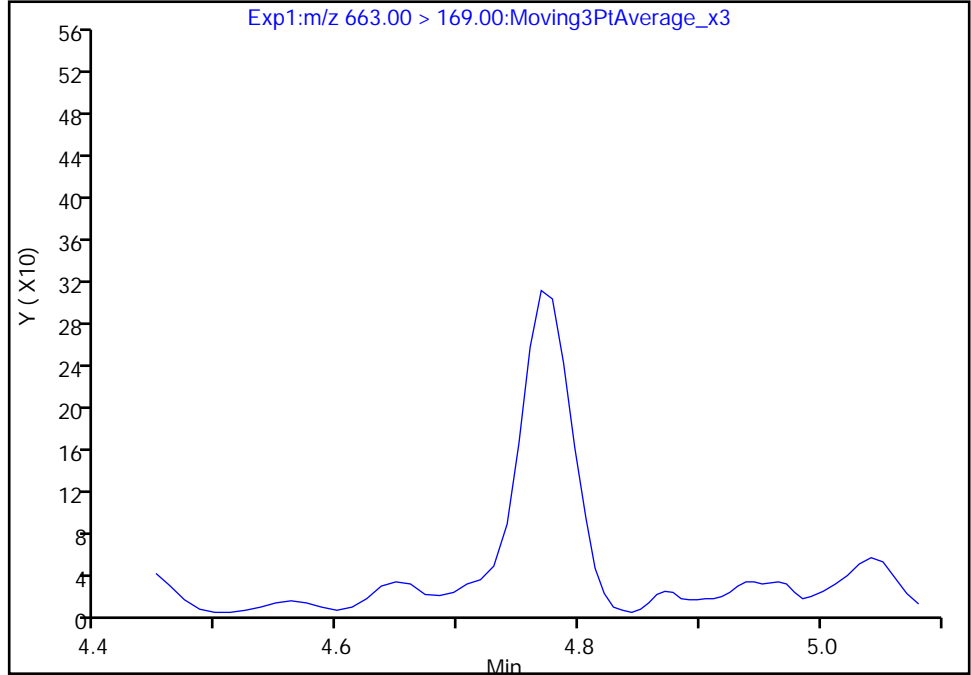
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

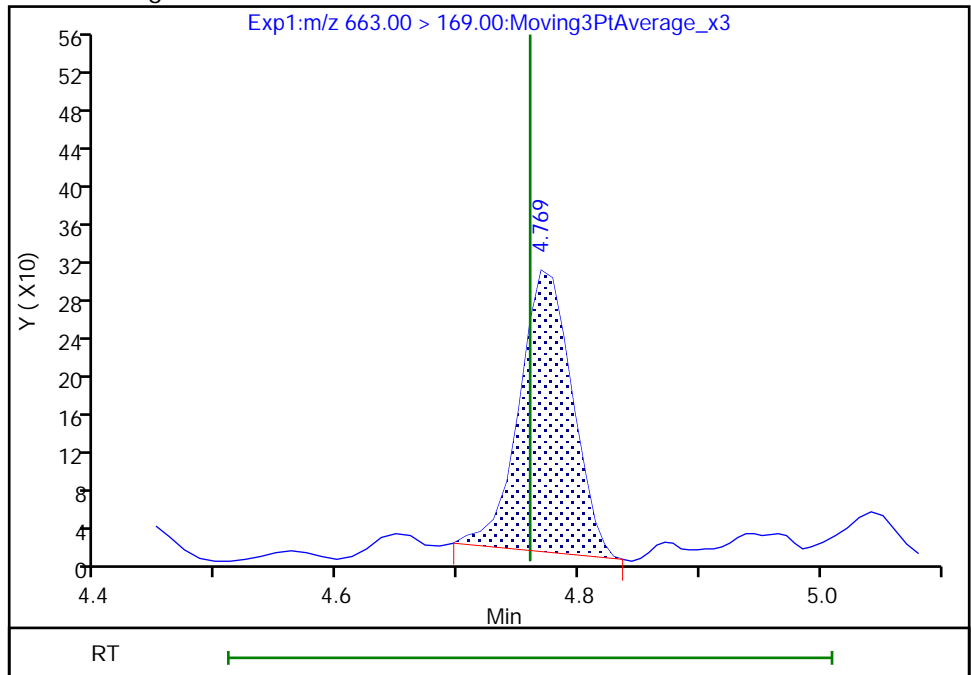
Not Detected  
Expected RT: 4.76

Processing Integration Results



Manual Integration Results

RT: 4.77  
Area: 898  
Amount: 0.092453  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:35:11  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

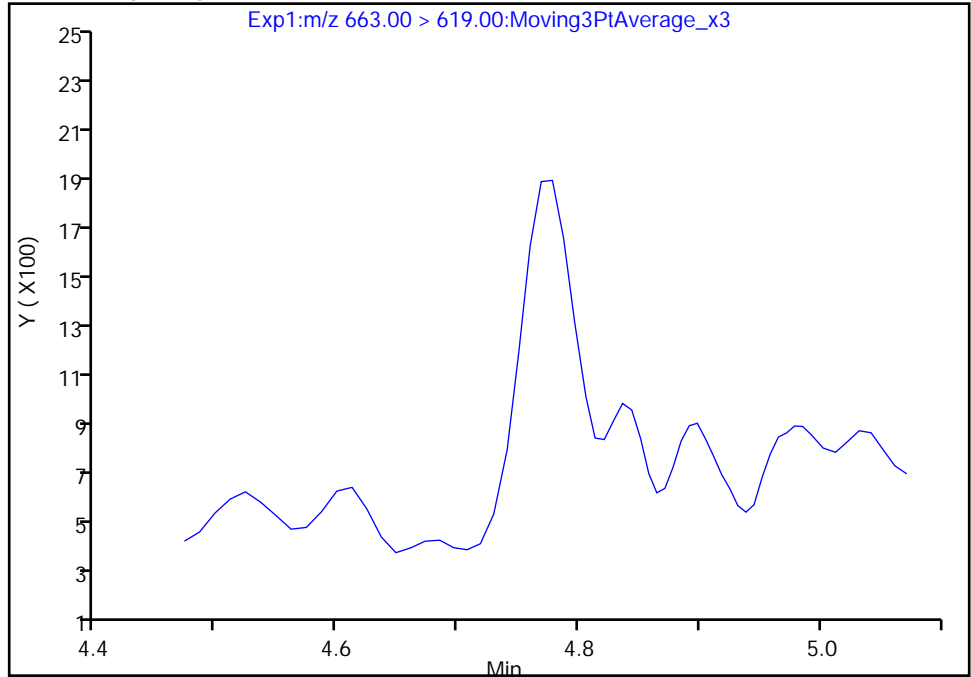
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

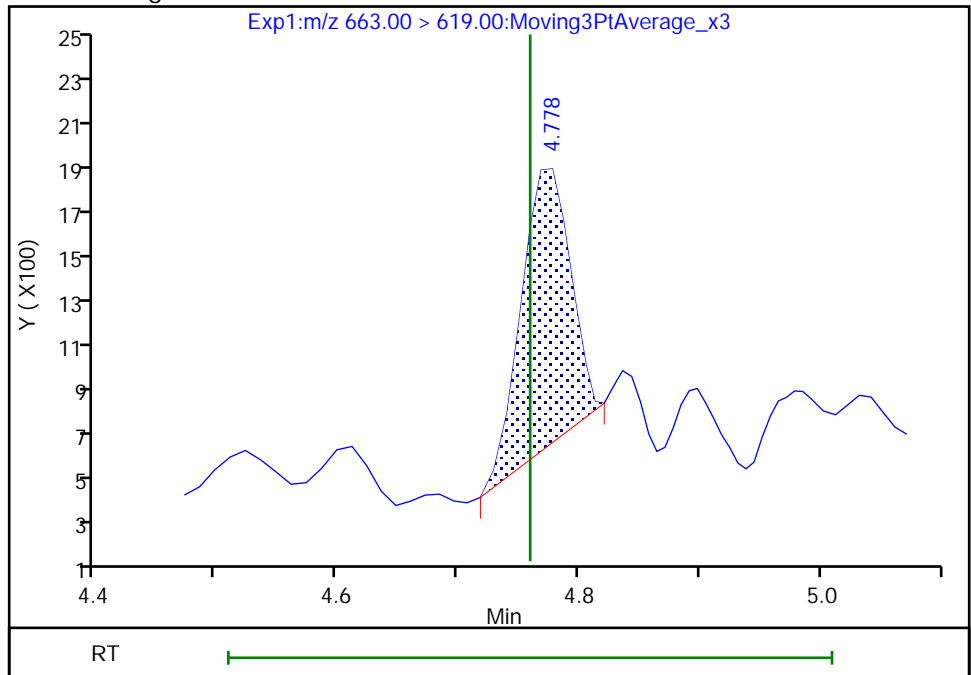
Not Detected  
Expected RT: 4.76

Processing Integration Results



RT: 4.78  
Area: 3487  
Amount: 0.092453  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

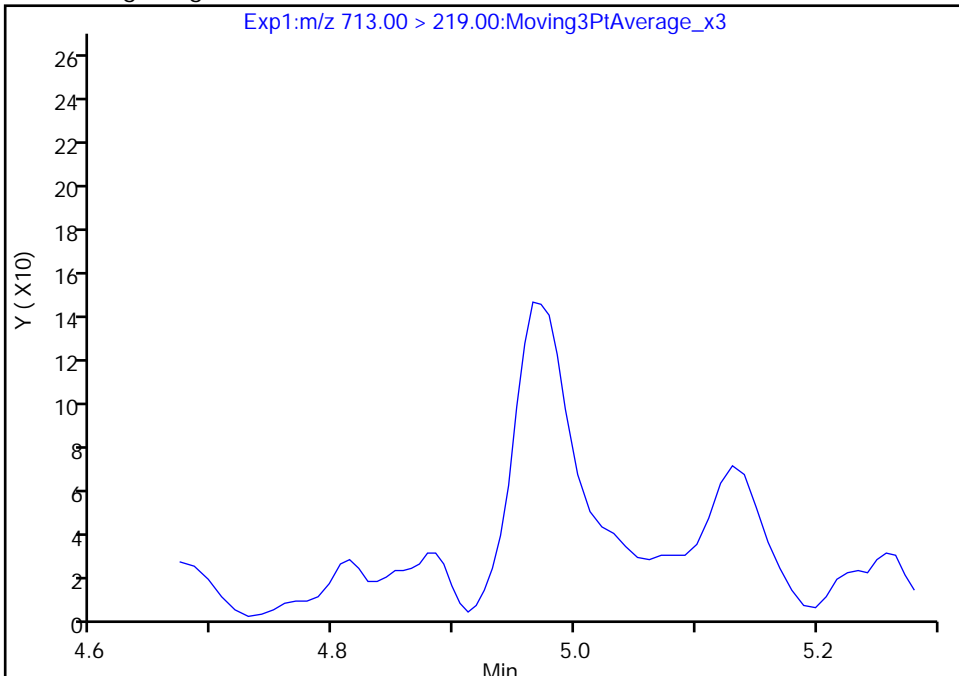
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

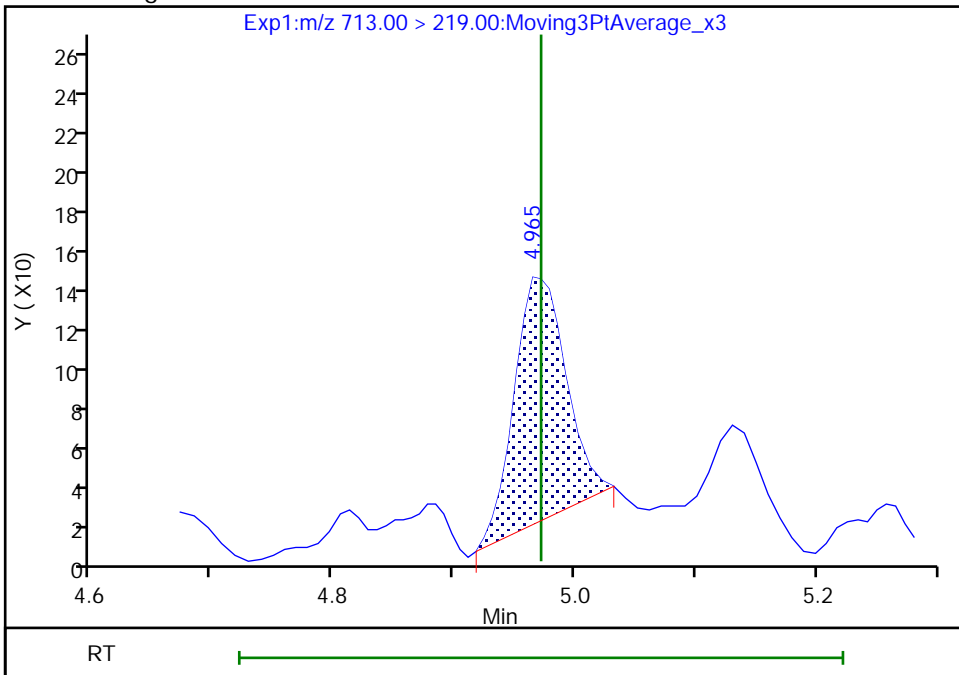
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 367  
Amount: 0.067577  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:35:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

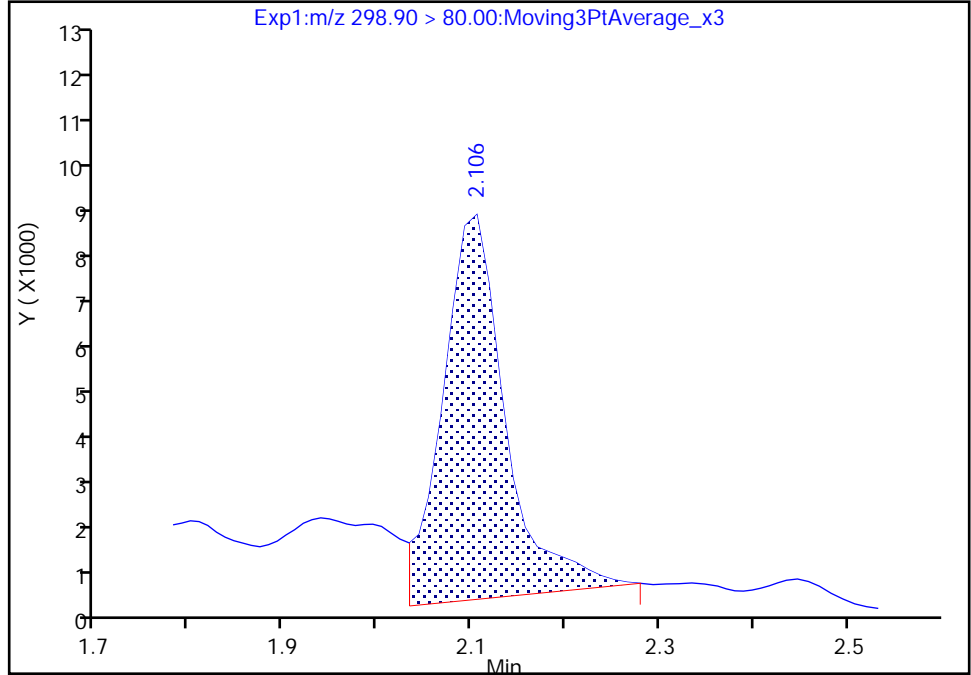
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

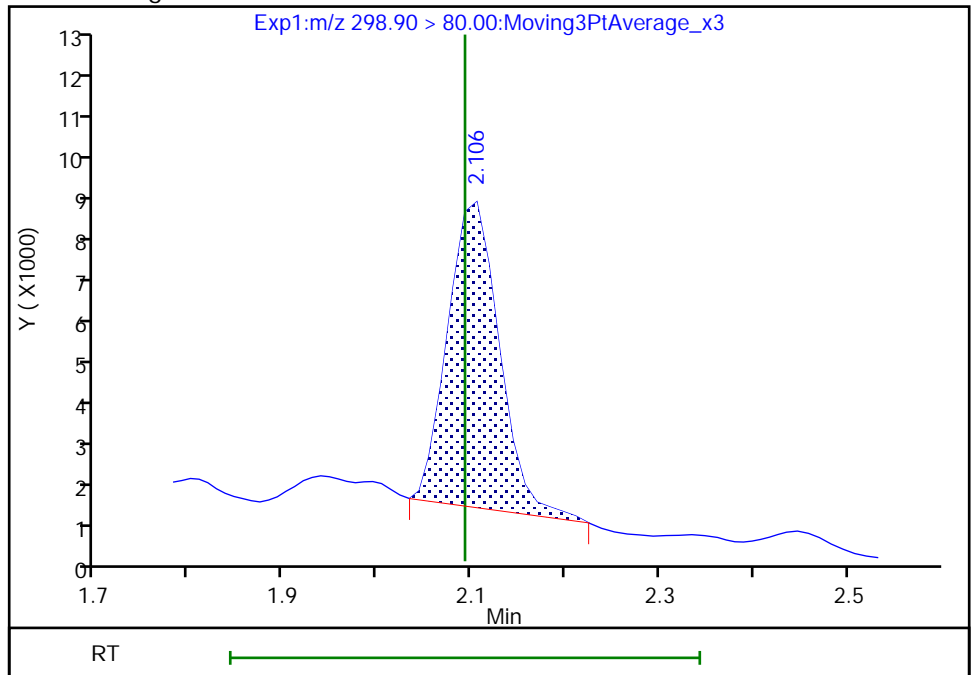
RT: 2.11  
Area: 35540  
Amount: 0.578929  
Amount Units: ng/ml

Processing Integration Results



RT: 2.11  
Area: 25782  
Amount: 0.419976  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:32:54  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

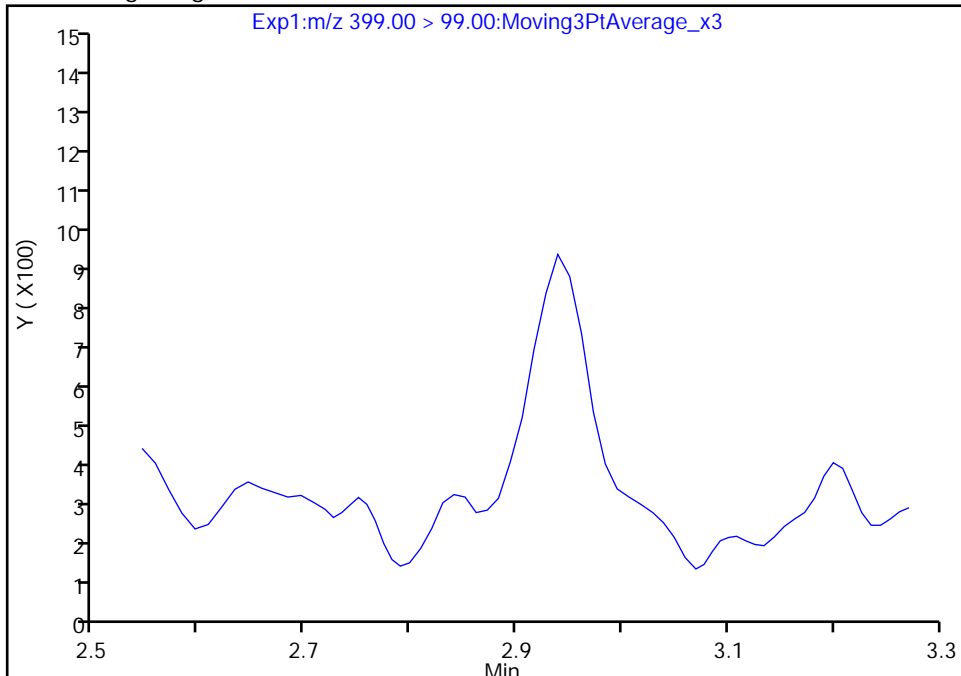
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E020.d  
Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

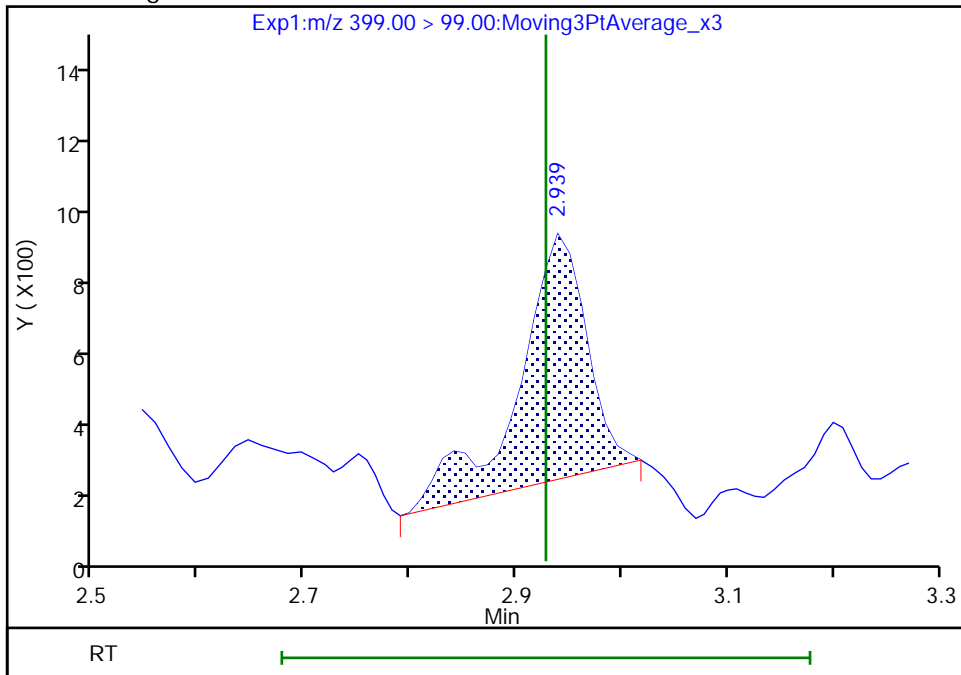
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 2966  
Amount: 0.221411  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:33:16  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

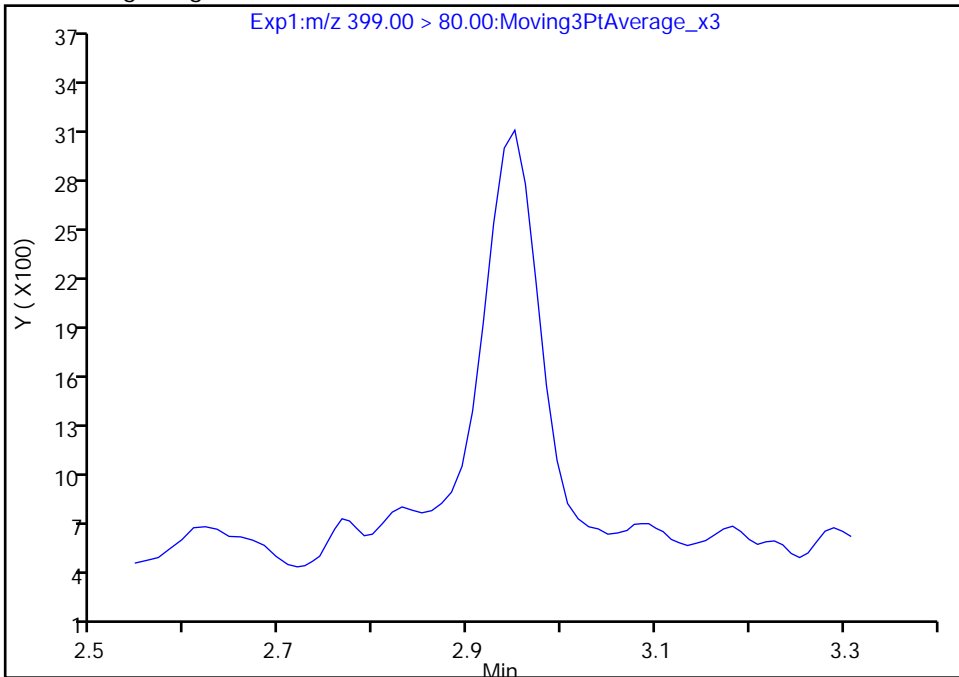
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Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

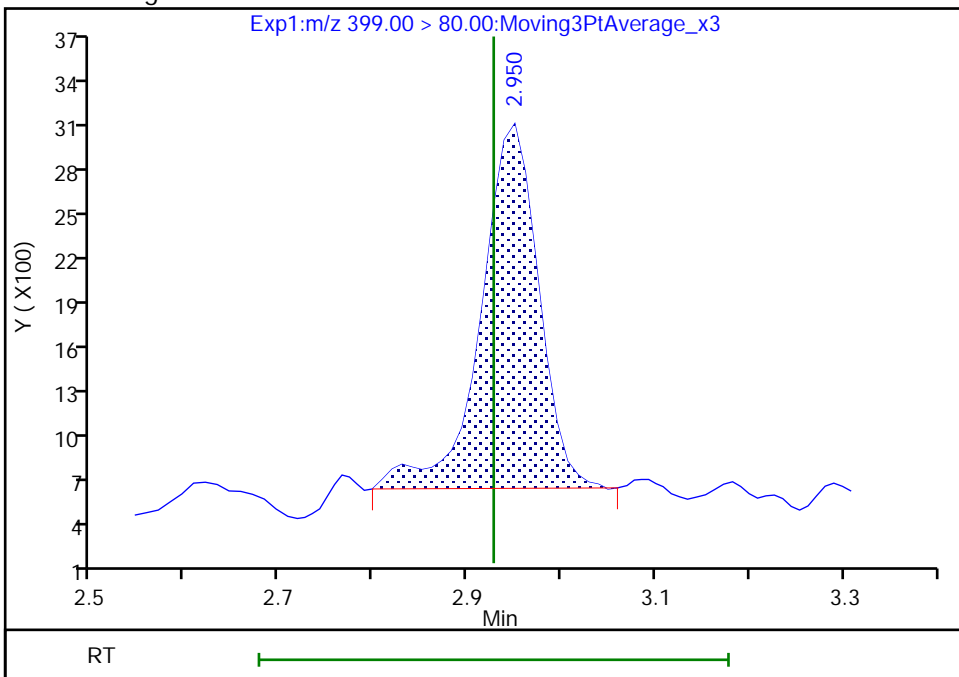
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.95  
Area: 10206  
Amount: 0.221411  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

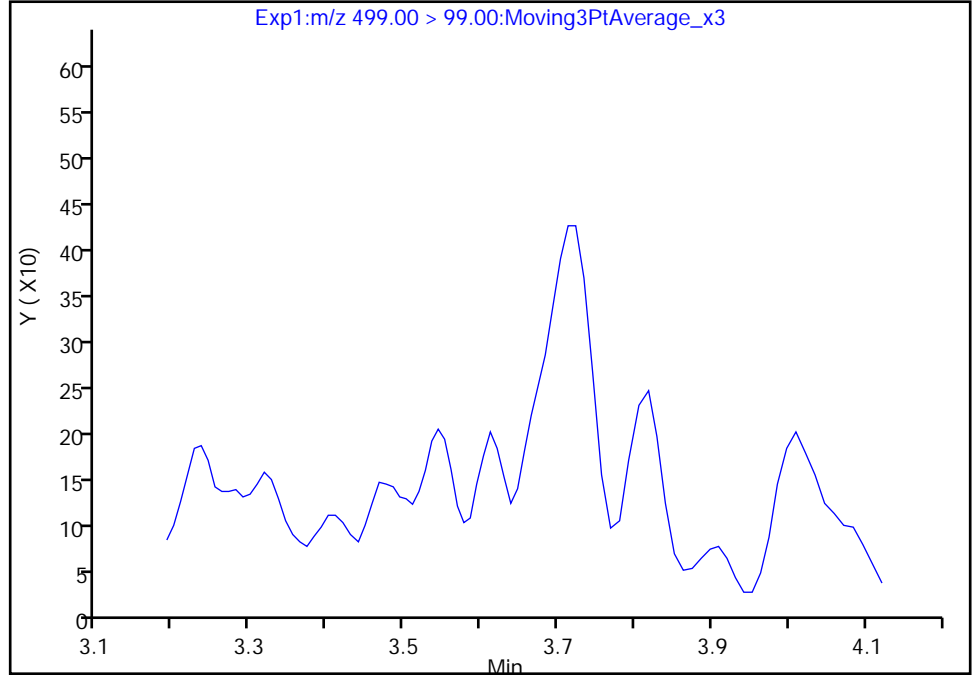
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Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

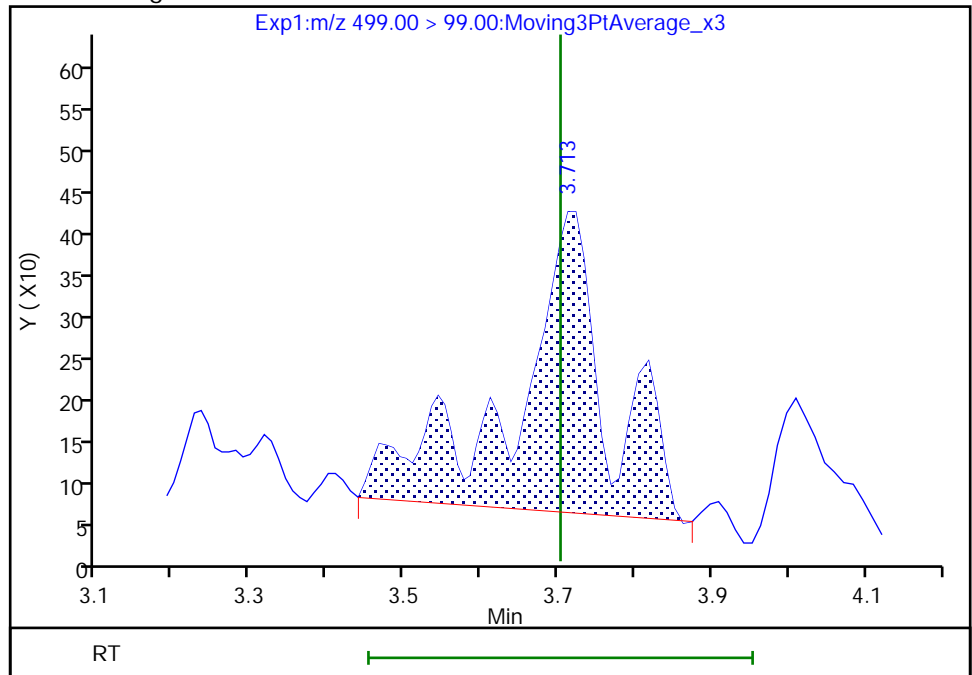
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.71  
Area: 3045  
Amount: 0.374871  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:34:09  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

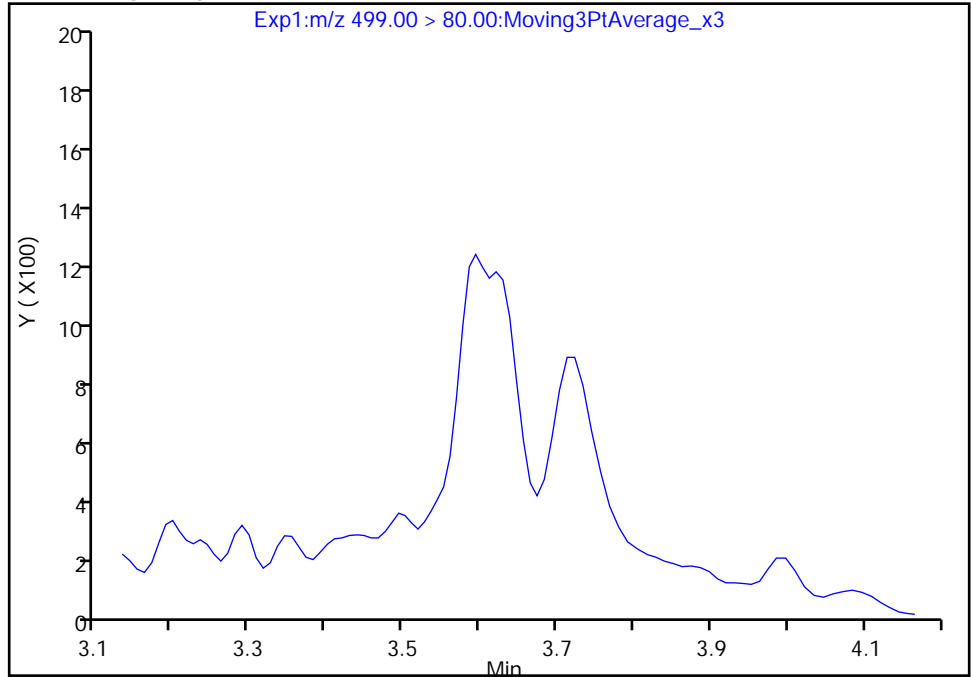
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Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

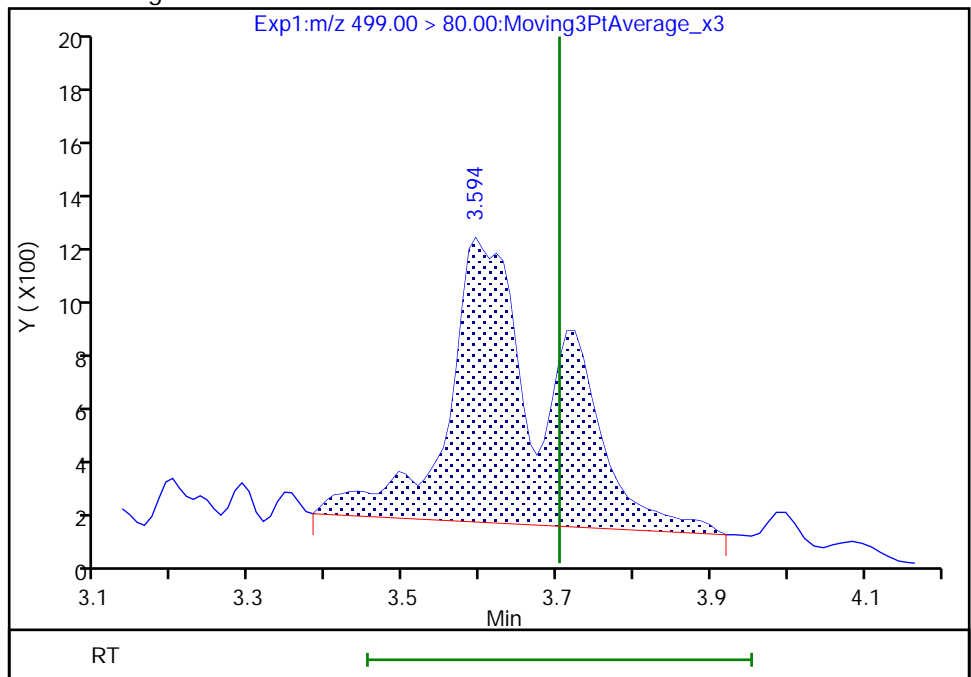
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.59  
Area: 9804  
Amount: 0.374871  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:34:12

Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

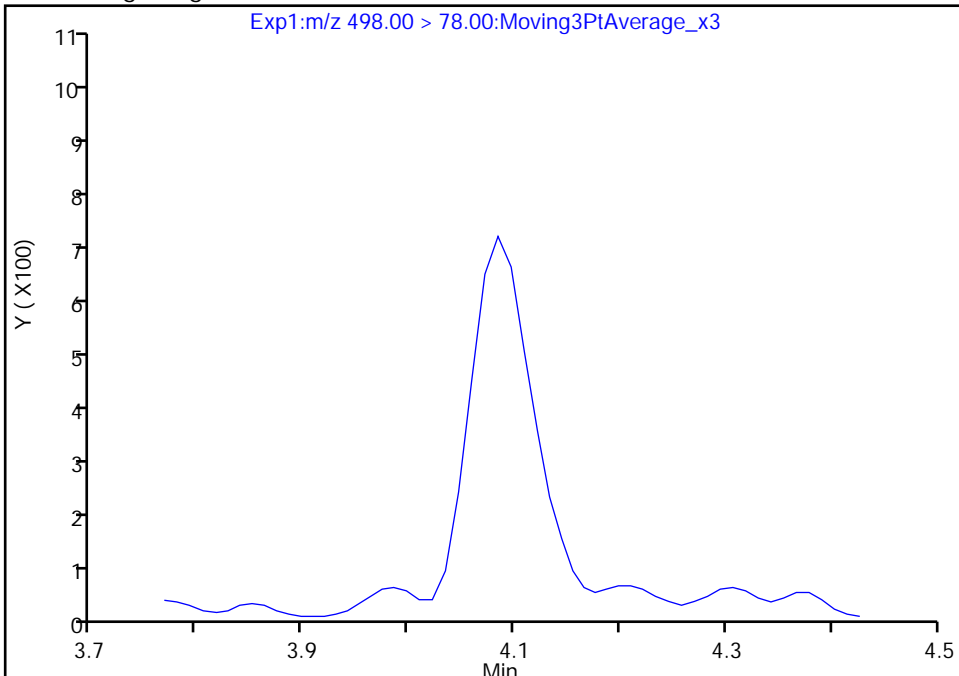
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Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

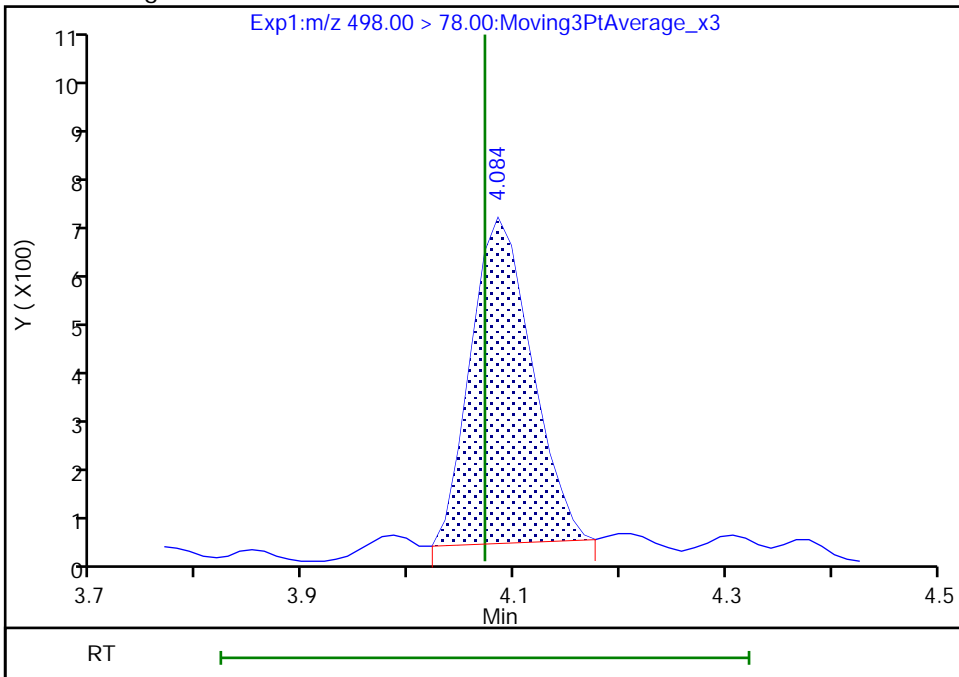
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 2594  
Amount: 0.060462  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

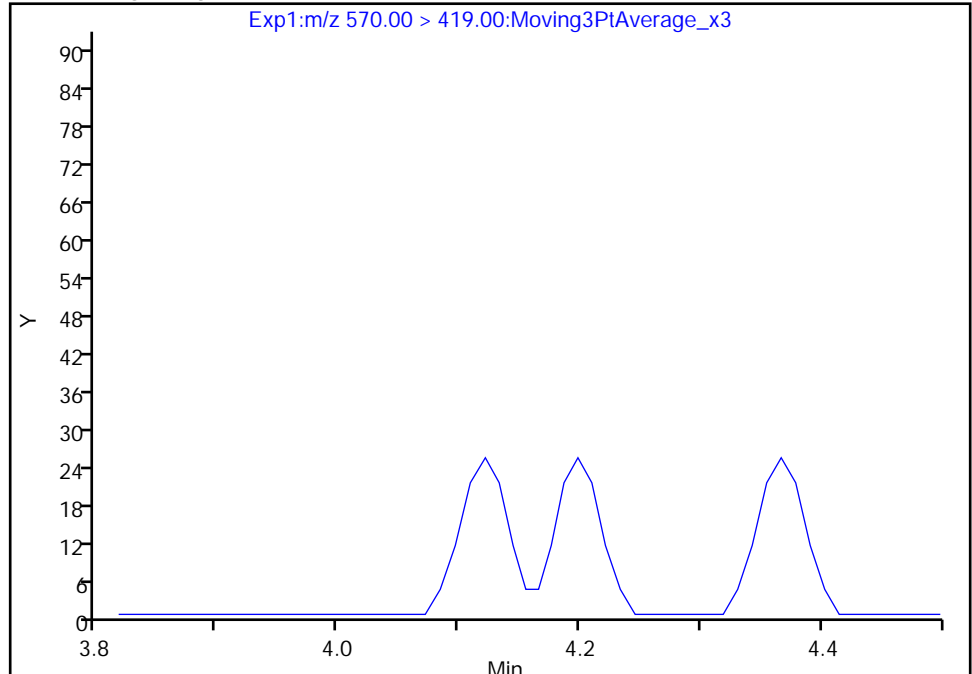
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Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

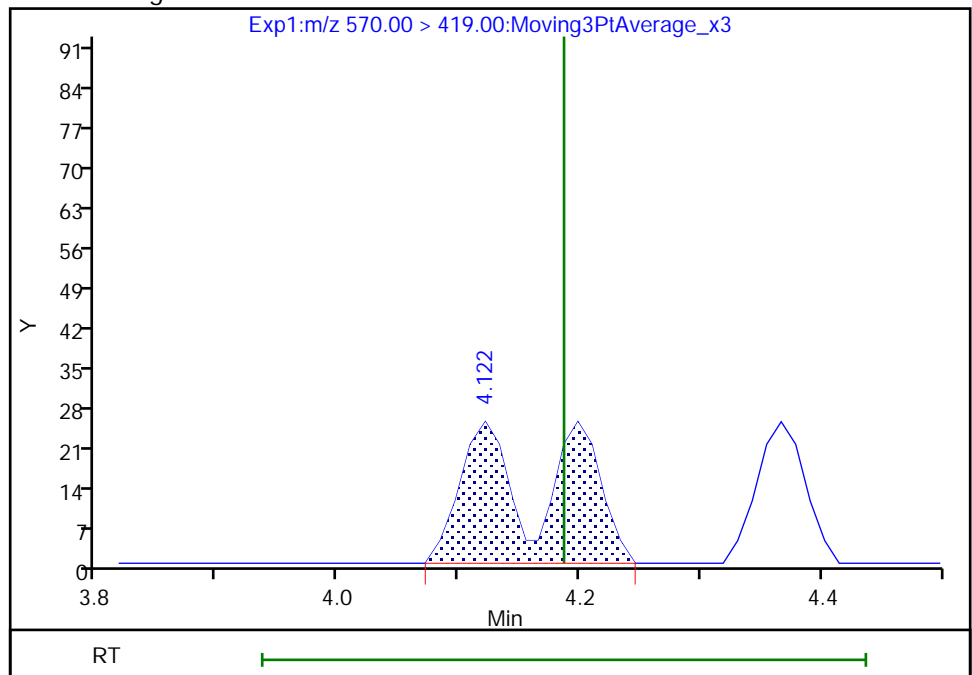
Not Detected  
Expected RT: 4.19

Processing Integration Results



RT: 4.12  
Area: 134  
Amount: 0.037794  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:34:35  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

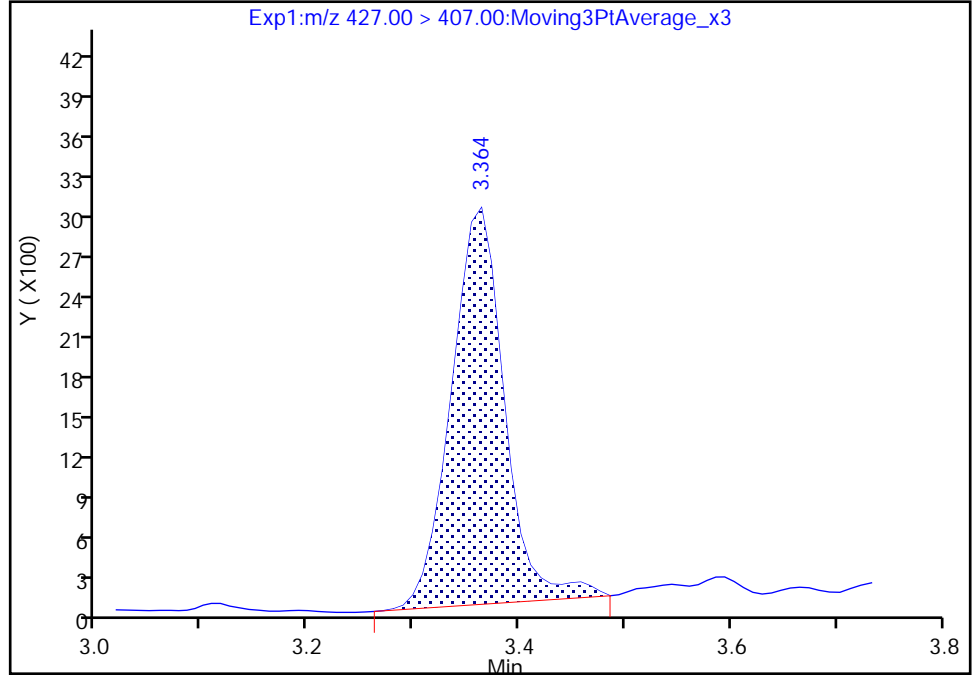
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Injection Date: 02-Aug-2019 06:22:07 Instrument ID: LC812  
Lims ID: 480-156213-F-17-A Lab Sample ID: 200-156213-17  
Client ID: 356023-MW1B  
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 20  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:, CAS: 27619-97-2

Signal: 1

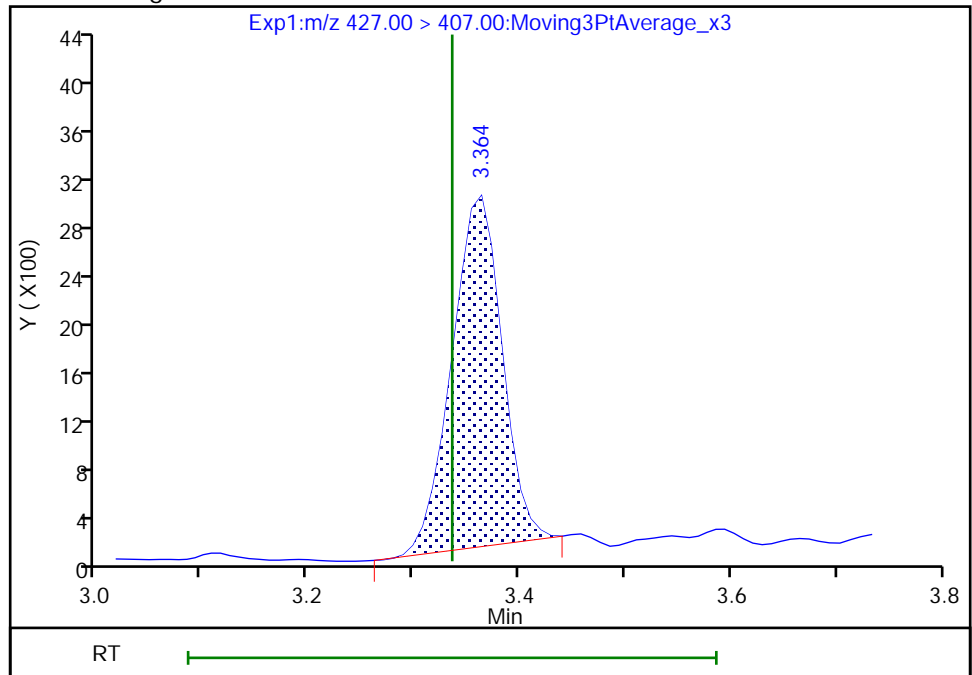
RT: 3.36  
Area: 10344  
Amount: 0.660254  
Amount Units: ng/ml

Processing Integration Results



RT: 3.36  
Area: 9555  
Amount: 0.609892  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:33:37

Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5R Lab Sample ID: 480-156213-18  
 Matrix: Water Lab File ID: SC080119E021.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 11:10  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 298.7 (mL) Date Analyzed: 08/02/2019 06:30  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.2	J	1.7	0.84
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.89	J	1.7	0.53
307-24-4	Perfluorohexanoic acid (PFHxA)	0.65	J	1.7	0.64
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.76
335-67-1	Perfluorooctanoic acid (PFOA)	1.2	J	1.7	0.53
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.64
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.44
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.49
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.50
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.77
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.42	J	1.7	0.41
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.80
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.74	J	1.7	0.51
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.4	8.4
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		17	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	17	1.3
27619-97-2	6:2 FTS	ND		17	3.9
39108-34-4	8:2 FTS	ND		17	2.4

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW5R Lab Sample ID: 480-156213-18  
 Matrix: Water Lab File ID: SC080119E021.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 11:10  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 298.7 (mL) Date Analyzed: 08/02/2019 06:30  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	60		25-150
STL00992	13C4 PFBA	84		25-150
STL01893	13C5 PFPeA	85		25-150
STL00993	13C2 PFHxA	82		50-150
STL01892	13C4 PFHpA	90		50-150
STL00990	13C4 PFOA	80		50-150
STL00995	13C5 PFNA	82		50-150
STL00996	13C2 PFDA	85		50-150
STL00997	13C2 PFUnA	77		50-150
STL00998	13C2 PFDoA	72		50-150
STL02116	13C2 PFTeDA	61		50-150
STL02337	13C3 PFBS	89		50-150
STL00994	18O2 PFHxS	87		50-150
STL00991	13C4 PFOS	82		50-150
STL02118	d3-NMeFOSAA	60		50-150
STL02117	d5-NEtFOSAA	64		50-150
STL02279	M2-6:2 FTS	101		25-150
STL02280	M2-8:2 FTS	91		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
 Lims ID: 480-156213-F-18-A  
 Client ID: 356023-MW5R  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 06:30:11 ALS Bottle#: 14 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-18-A  
 Misc. Info.: 200-0037095-021 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:38:27  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.505	3054710	42.1	84.3	10702	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.005	41675	0.7401		7.9	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	2909825	42.7	85.5	6979	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	30107	0.5346		1.4	
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	2766776	41.4	89.0	228517	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	15116	0.2499	Target=1.90	6.6	
	298.90 > 99.00	2.093	2.093	0.0	1.000	8328		1.82(0.95-2.85)	7.8	
D 7 13C2 PFHxA	315.00 > 270.00	2.470	2.459	0.011	0.734	2783308	41.2	82.3	6599	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.000	22134	0.3861	Target=13.23	4.3	
	313.00 > 119.00	2.459	2.459	0.0	0.995	1853		11.94(6.61-19.84)	2.6	
D 11 18O2 PFHxS	403.00 > 84.00	2.939	2.916	0.023	0.874	1605837	41.0	86.7	4101	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.874	2967739	44.8	89.6	8241	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.939	2.928	0.011	1.000	12670	0.2832	Target=3.37	9.2	M
	399.00 > 99.00	2.939	2.928	0.011	1.000	3031		4.18(1.69-5.06)	3.5	M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.939	2.928	0.011	1.000	8474	0.1524	Target=3.76	1.8	M
	363.00 > 169.00	2.939	2.928	0.011	1.000	2529		3.35(1.88-5.65)	12.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.355	3.335	0.020	0.997	389801	47.8		101	663	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.355	3.336	0.019	1.000	7773	0.5523			23.0	
D 14 13C4 PFOA										
417.00 > 372.00	3.364	3.344	0.020	1.000	2805285	40.1		80.2	6678	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.373	3.355	0.018	1.003	41956	0.6872	Target=2.84		4.0	M
413.00 > 169.00	3.364	3.355	0.009	1.000	17884		2.35(1.42-4.25)		36.8	M
* 62 13C2 PFOA										
415.00 > 370.00	3.364	3.355	0.009		3846735	50.0			10356	
D 18 13C4 PFOS										
503.00 > 80.00	3.723	3.695	0.028	1.107	1281469	39.3		82.1	3833	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.612	3.703	-0.091	0.970	11161	0.4398	Target=4.33		15.2	RM
499.00 > 99.00	3.723	3.703	0.020	1.000	1743		6.40(2.16-6.49)		4.2	M
D 19 13C5 PFNA										
468.00 > 423.00	3.745	3.715	0.030	1.113	2617733	41.0		82.0	9786	
20 Perfluorononanoic acid										
463.00 > 419.00	3.745	3.723	0.022	1.000	2784	0.0587	Target=8.15		1.0	M
463.00 > 169.00	3.734	3.723	0.011	0.997	501		5.56(4.08-12.23)		6.3	M
D 23 13C2 PFDA										
515.00 > 470.00	4.059	4.036	0.023	1.207	2164881	42.4		84.8	11409	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.059	4.036	0.023	1.207	327802	43.6		91.0	641	
D 21 13C8 FOSA										
506.00 > 78.00	4.084	4.061	0.023	1.214	1747829	29.8		59.6	4287	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.084	4.072	0.012	1.000	2056	0.0644			16.2	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.198	4.178	0.020	1.248	195419	30.0		59.9	1632	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.284	1783461	38.3		76.7	8386	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.307	0.012	1.000	4124	0.1347	Target=7.95		2.0	M
563.00 > 169.00	4.319	4.307	0.012	1.000	1012		4.08(3.98-11.93)		12.3	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.331	4.308	0.023	1.287	233521	32.1		64.3	946	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.343	4.319	0.024	1.003	413	0.1382			4.6	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.537	0.012	1.352	1797756	35.9		71.8	6542	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.478	2086683	30.3		60.5	8958	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.979	4.972	0.007	1.001	458	0.0824	Target=1.02		3.7	M
713.00 > 219.00	4.972	4.972	0.0	1.000	507		0.90(0.51-1.54)		12.2	M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d

Injection Date: 02-Aug-2019 06:30:11

Instrument ID: LC812

Lims ID: 480-156213-F-18-A

Lab Sample ID: 200-156213-18

Client ID: 356023-MW5R

Operator ID: lc812tech

ALS Bottle#: 14

Worklist Smp#: 21

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

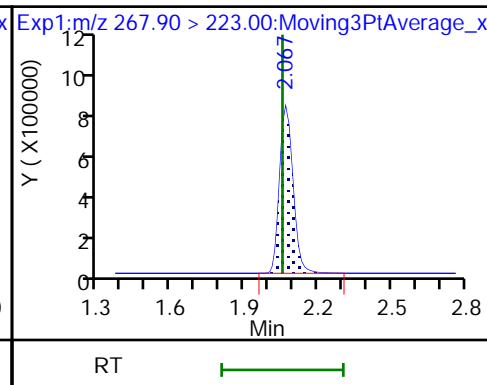
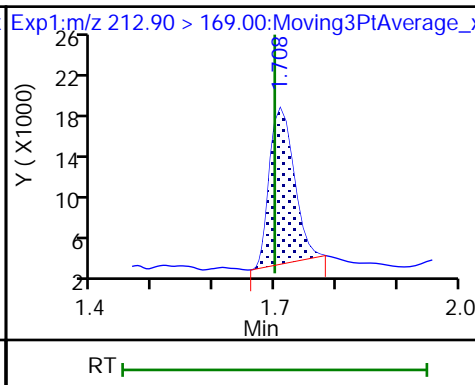
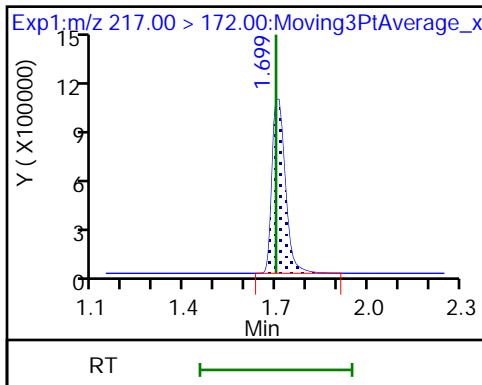
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

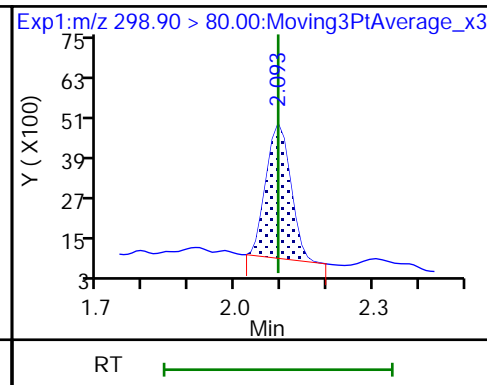
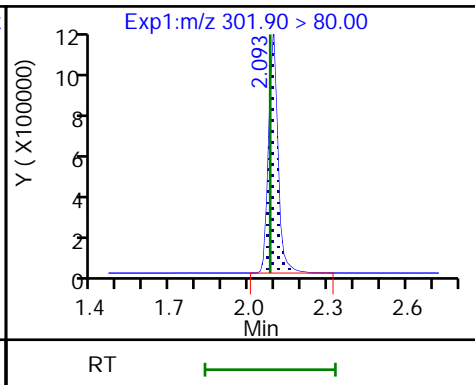
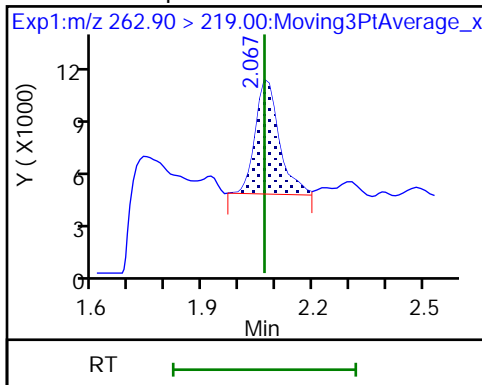
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

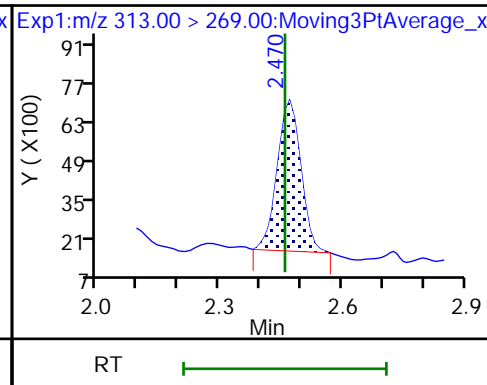
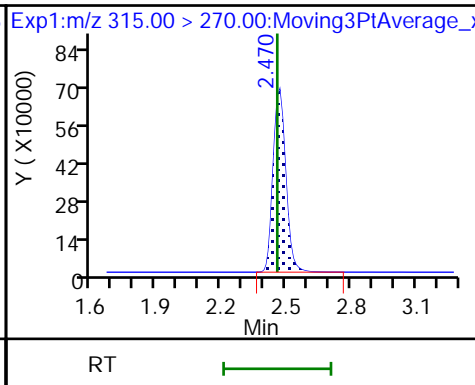
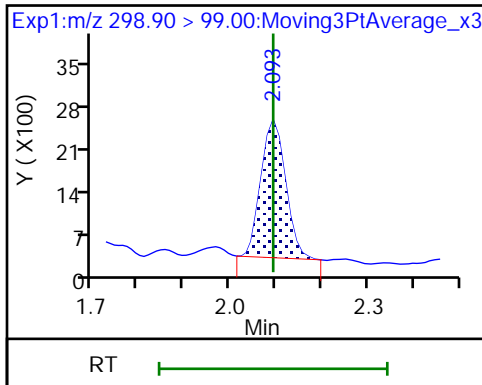
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

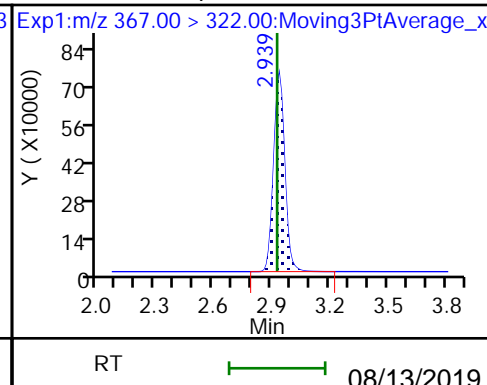
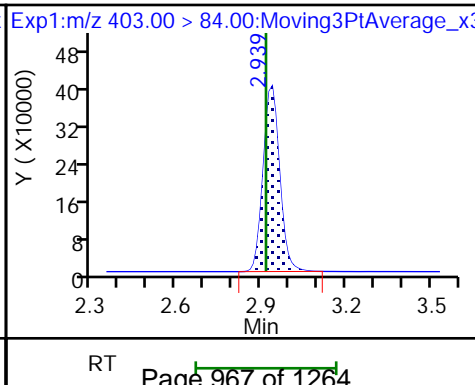
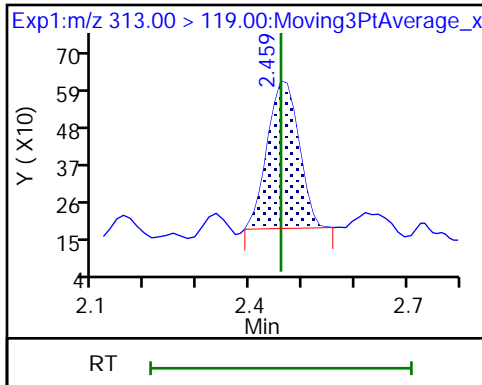
6 Perfluorohexanoic acid

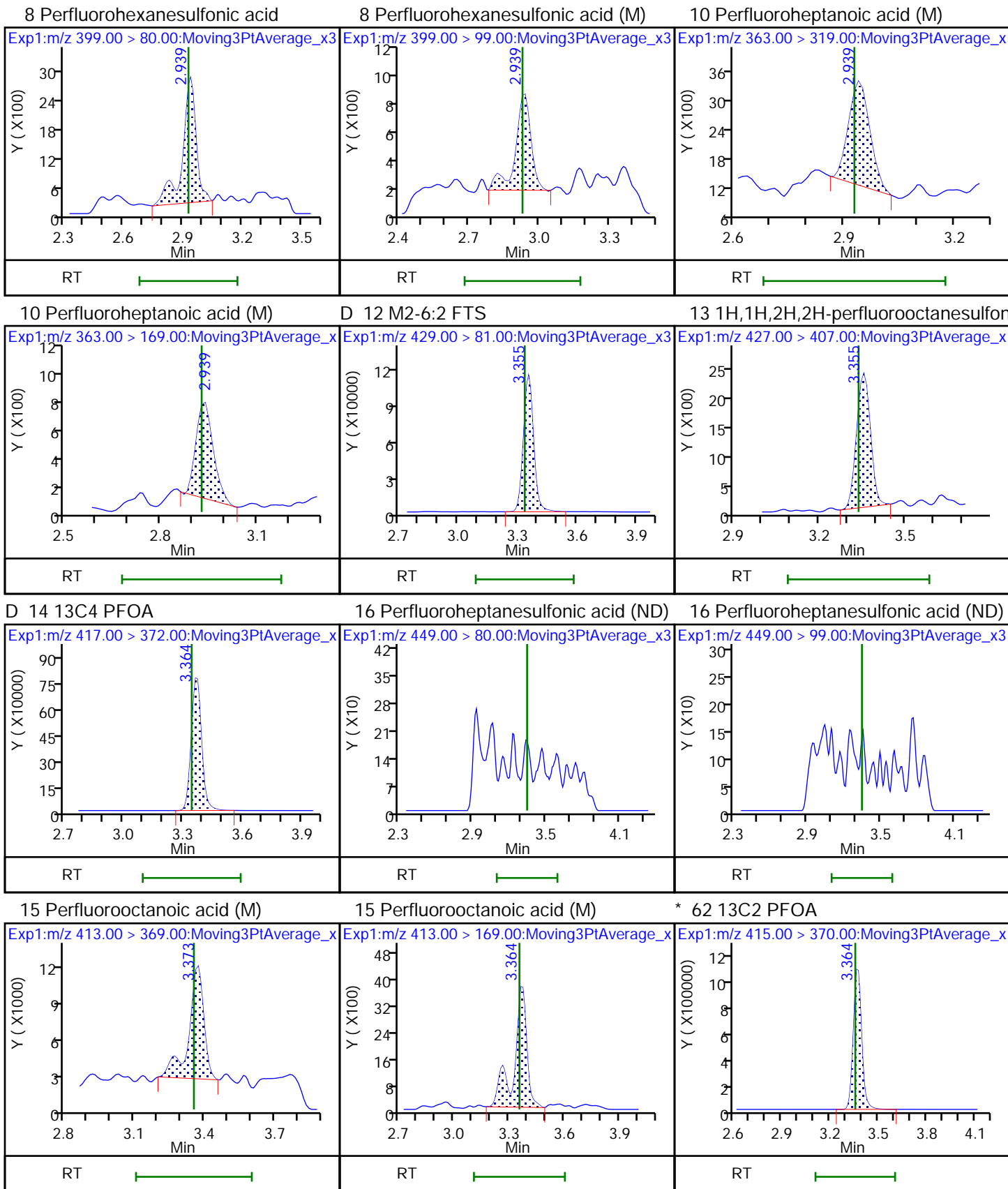


6 Perfluorohexanoic acid

D 11 18O2 PFHxS

D 9 13C4 PFHpA

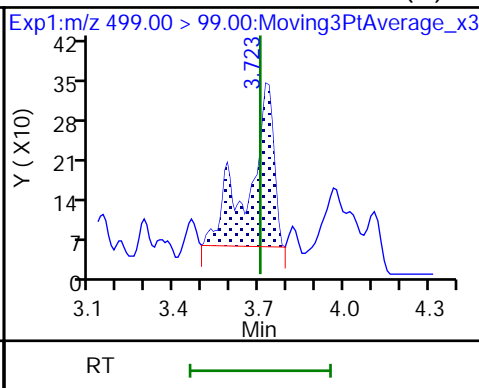
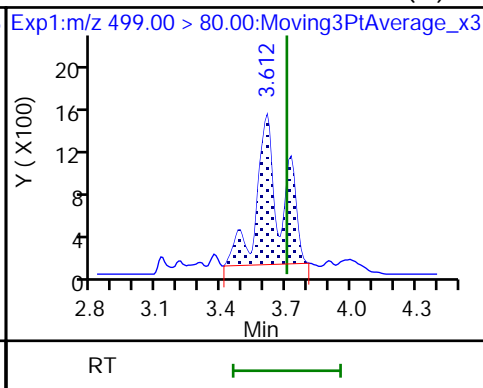
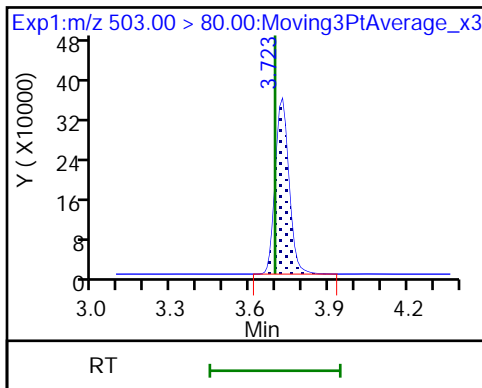




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

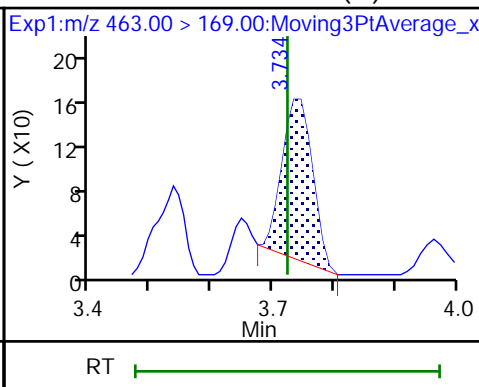
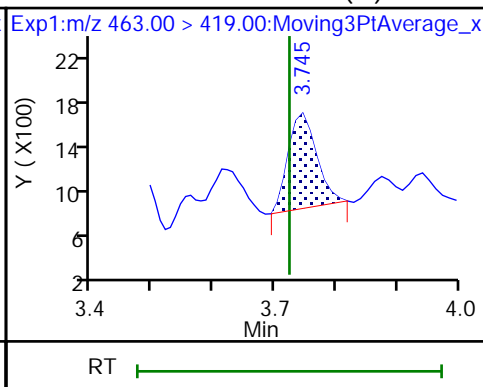
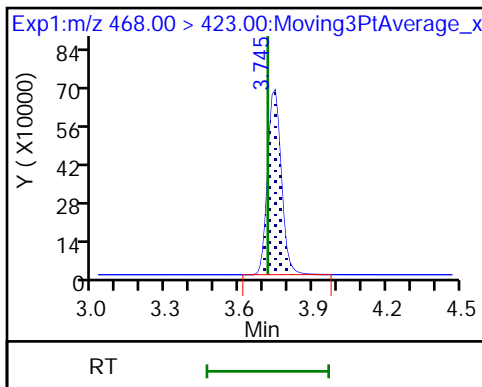
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

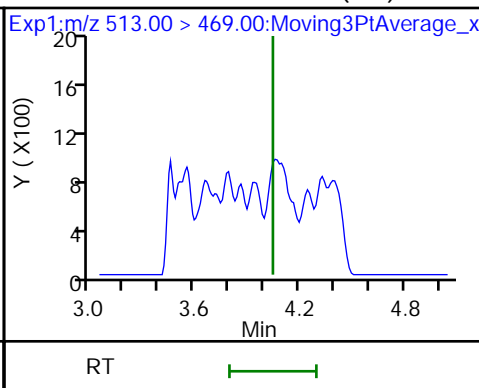
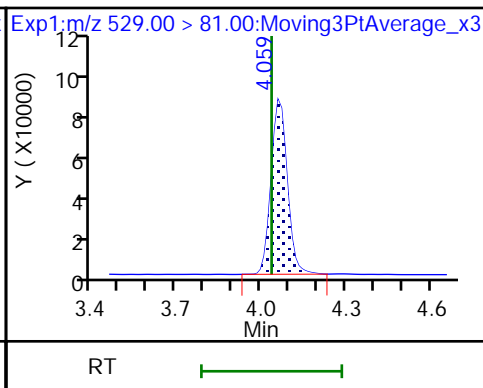
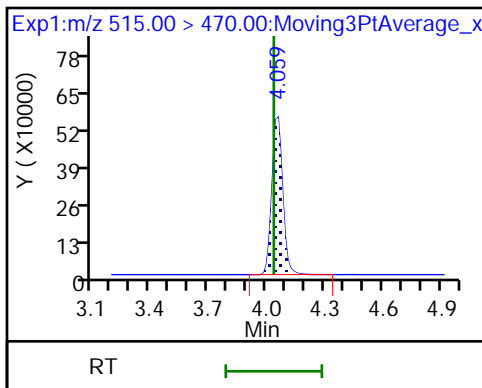
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

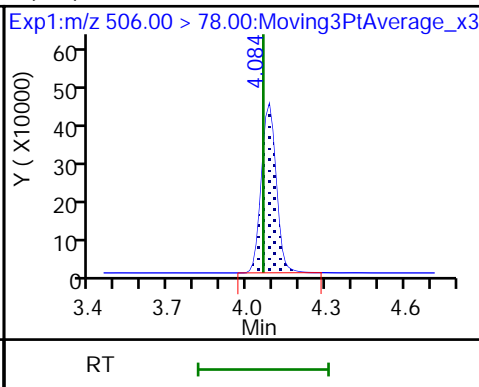
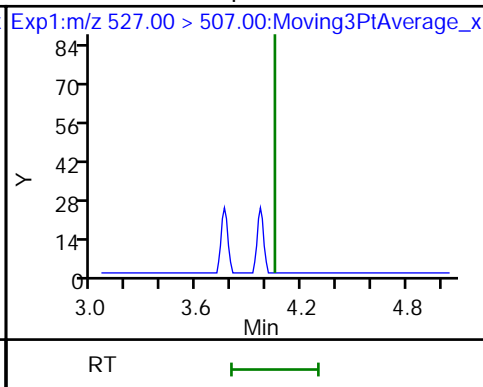
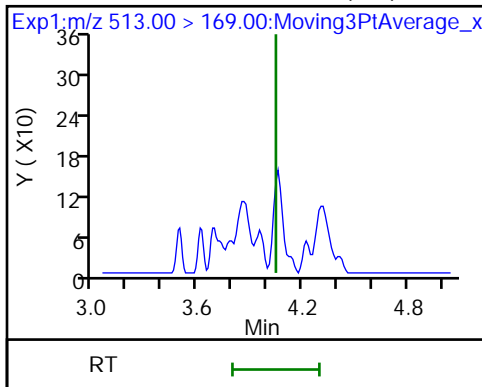
24 Perfluorodecanoic acid (ND)



24 Perfluorodecanoic acid (ND)

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (ND)

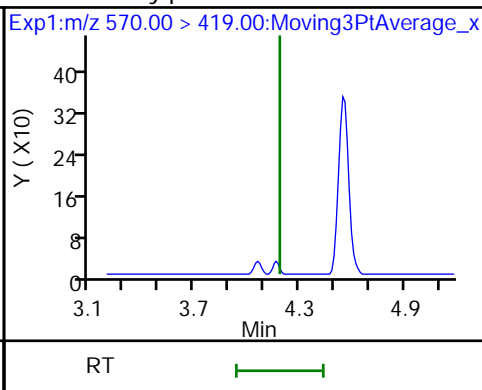
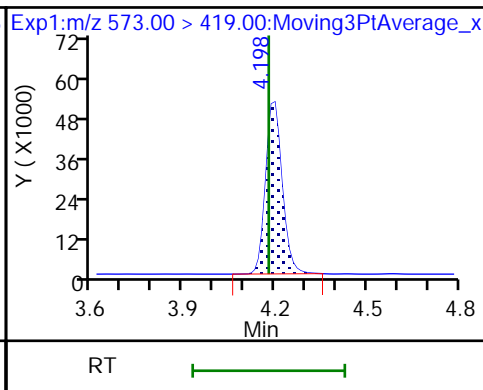
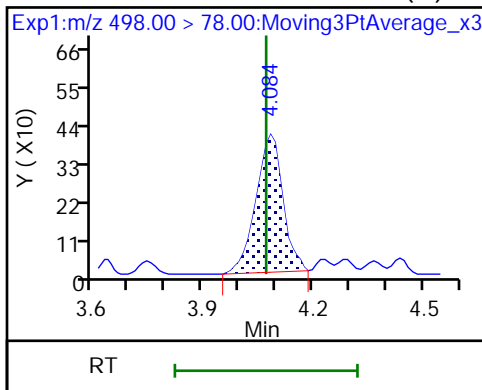
(ND) 3C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

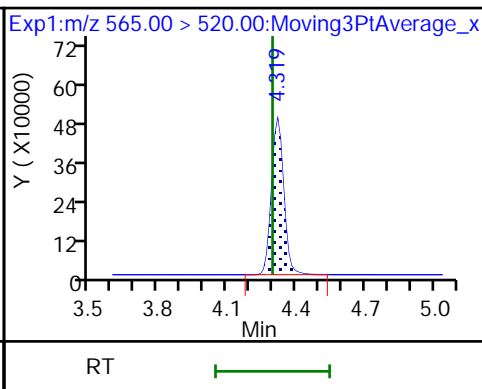
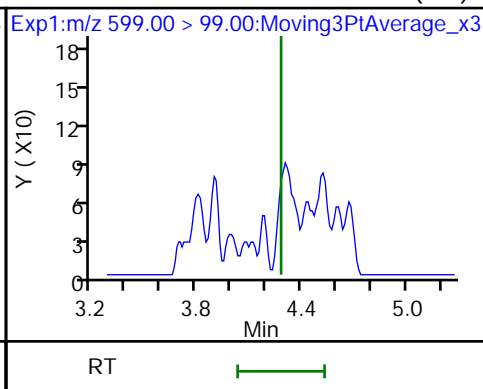
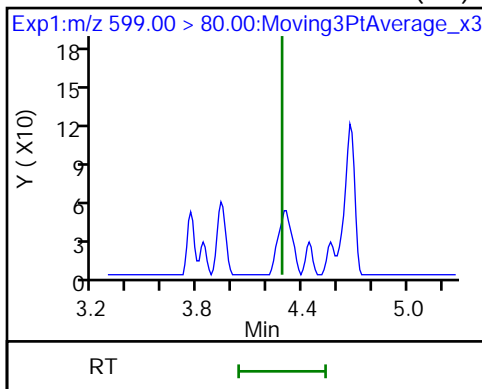
28 N-methylperfluorooctanesulfonamido (ND)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

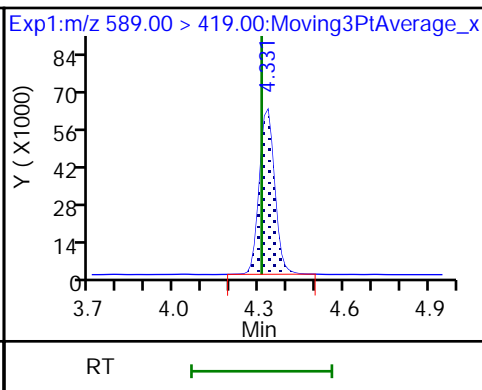
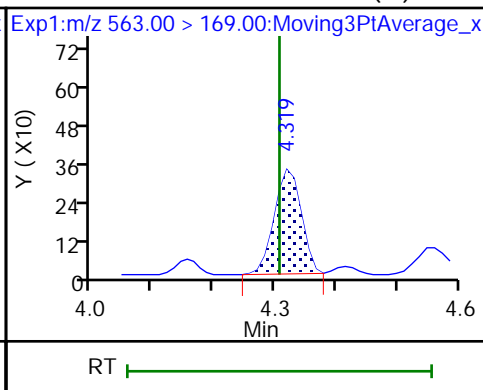
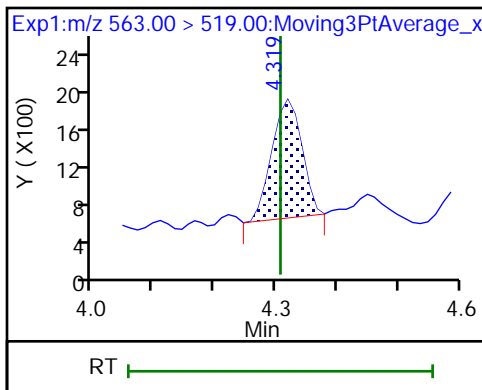
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

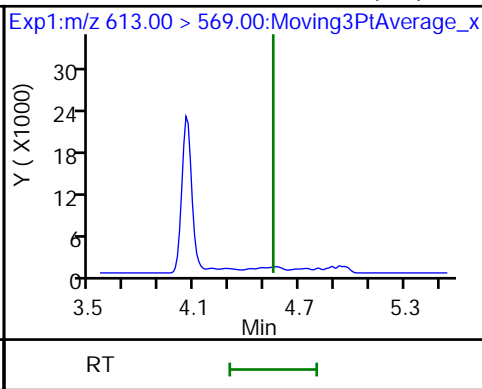
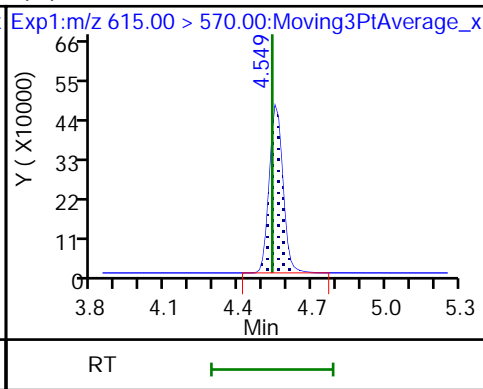
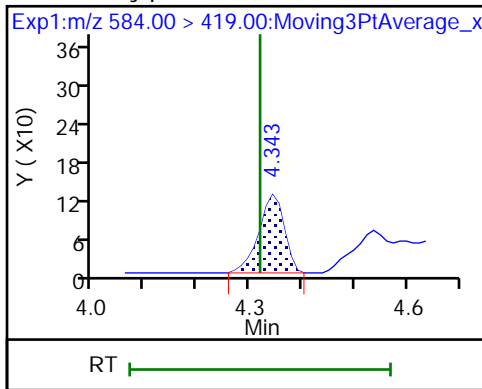
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamide (M)

D 36 13C2 PFDoA

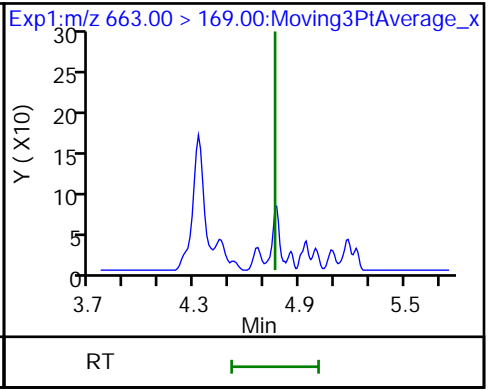
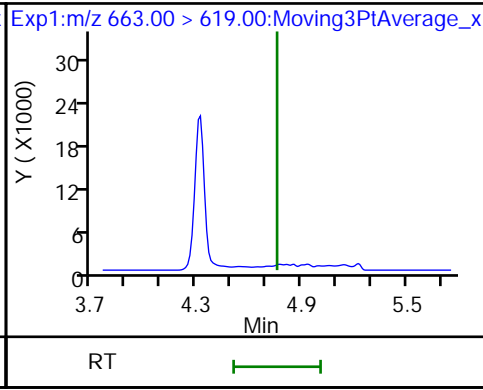
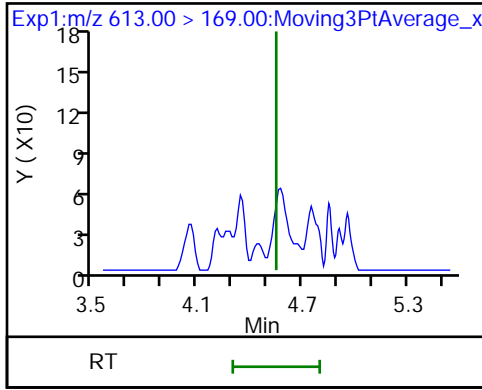
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

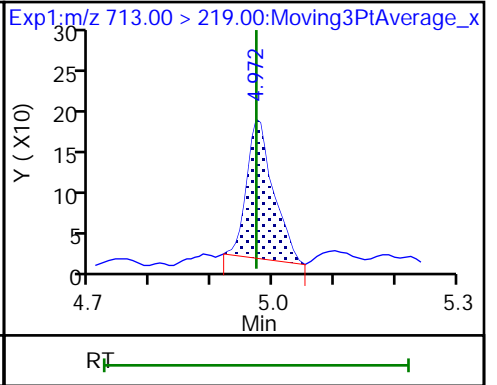
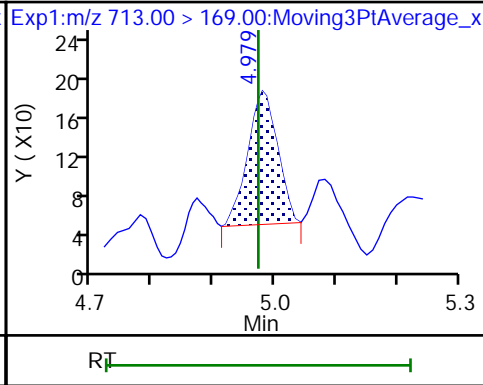
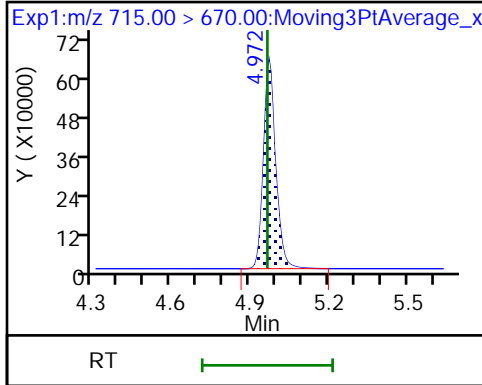
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)



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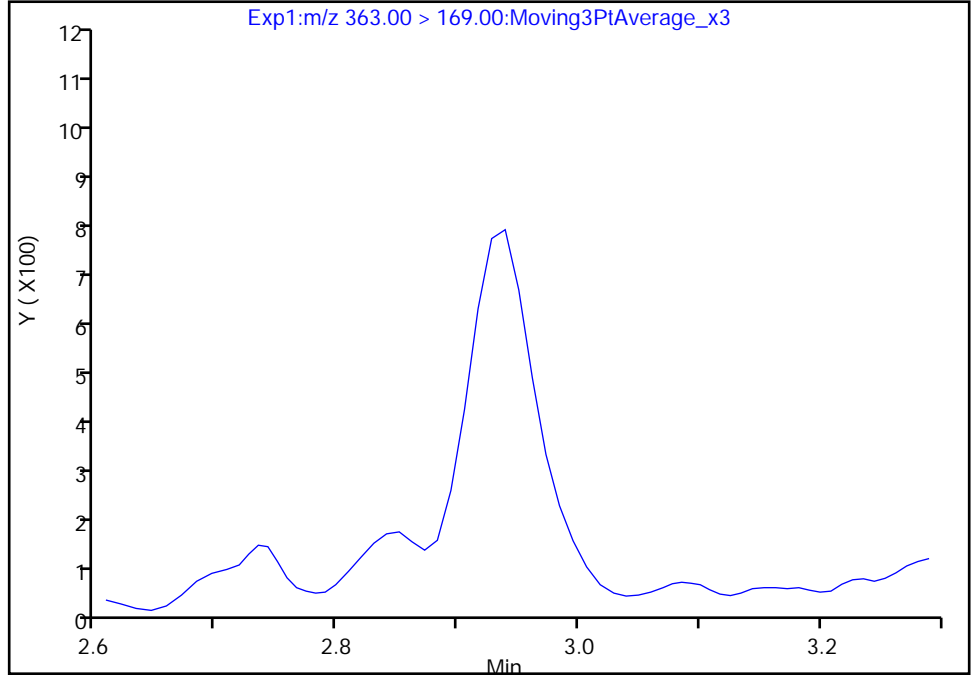
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Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

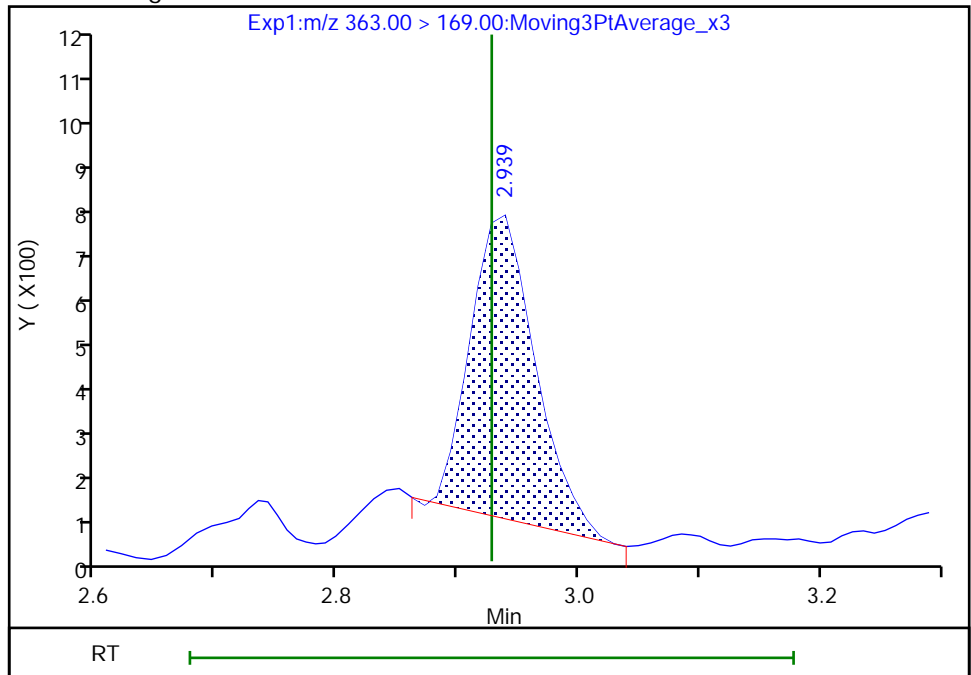
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 2529  
Amount: 0.152424  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:36:25  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

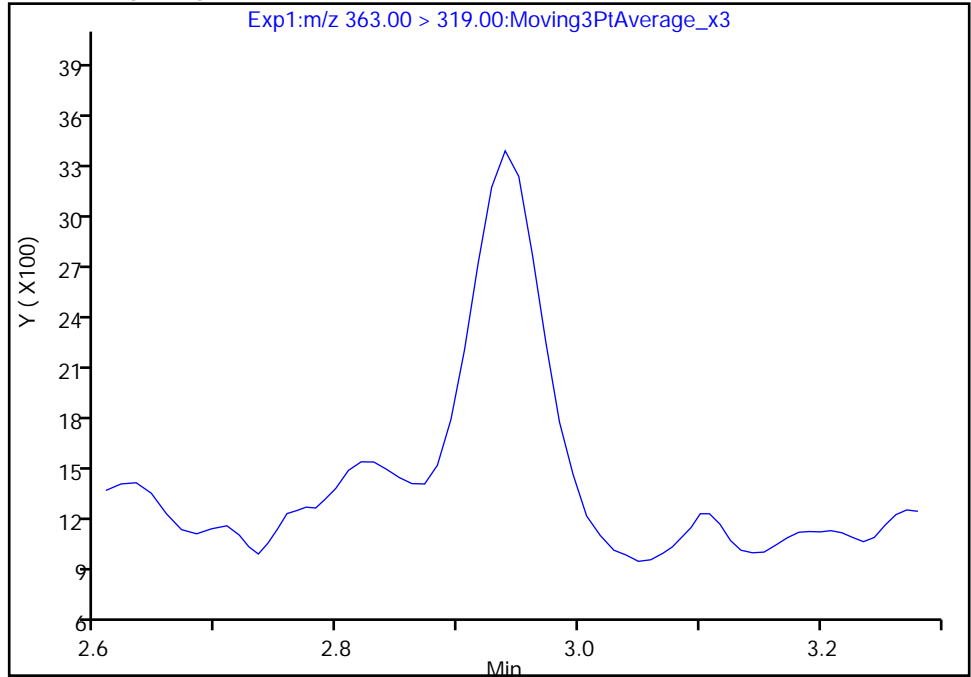
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Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

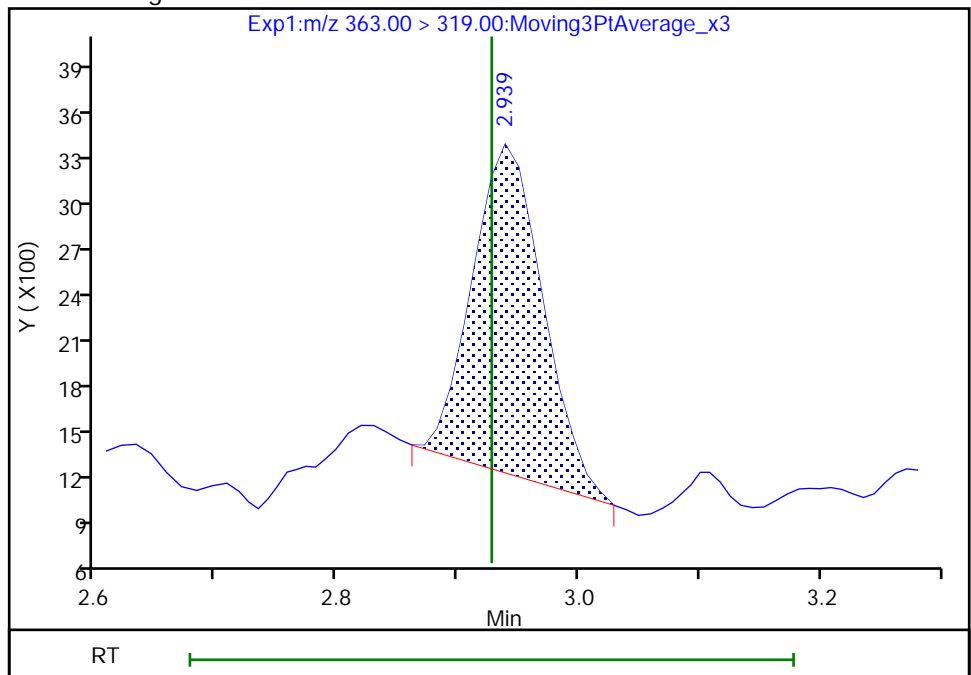
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 8474  
Amount: 0.152424  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

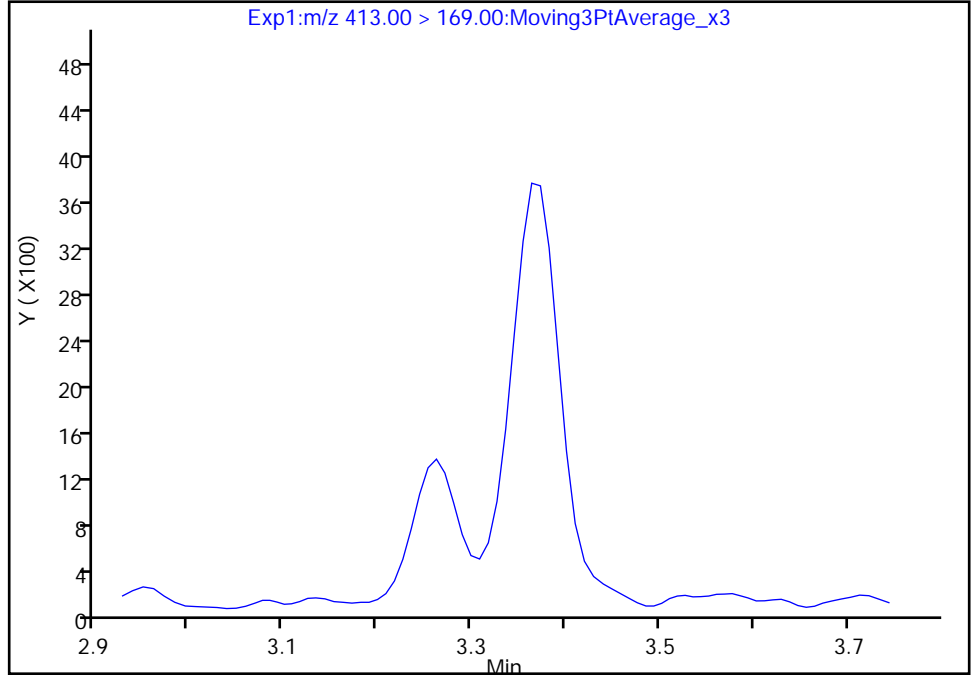
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Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

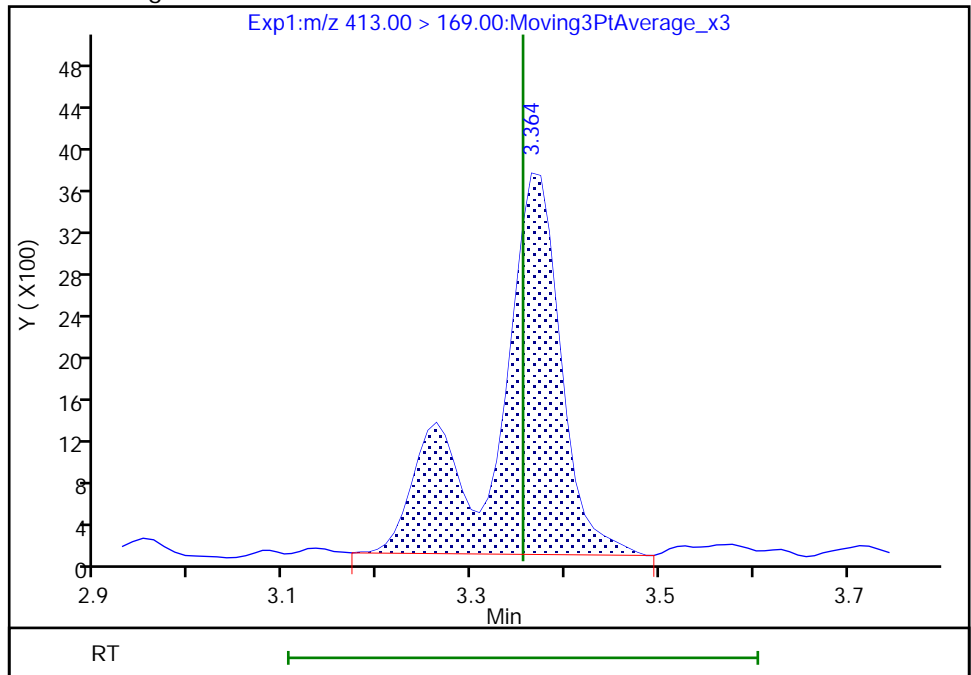
Not Detected  
Expected RT: 3.35

Processing Integration Results



RT: 3.36  
Area: 17884  
Amount: 0.687239  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:36:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

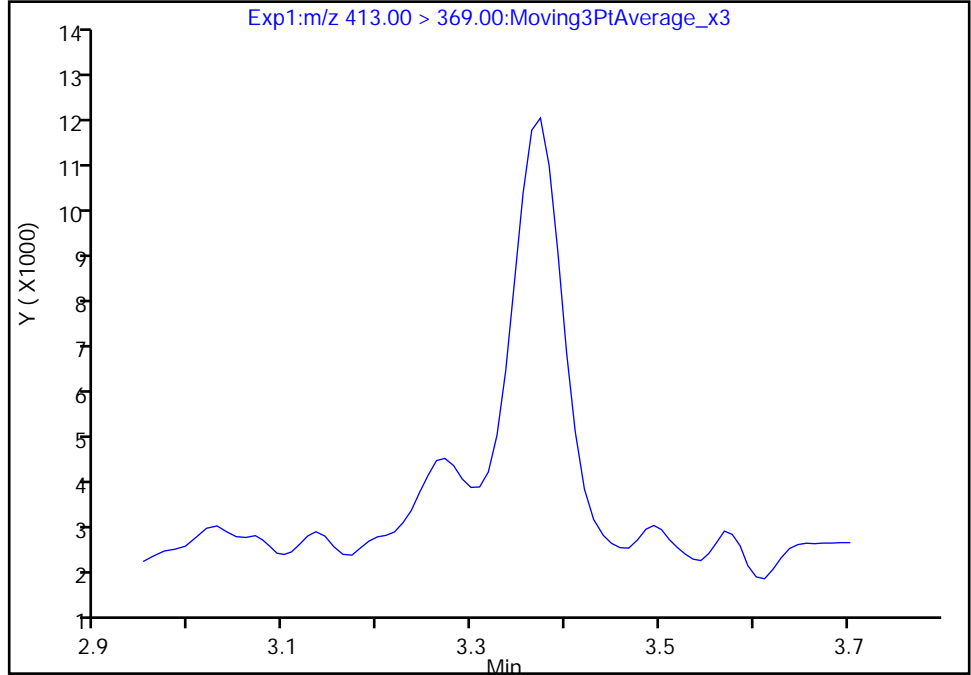
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

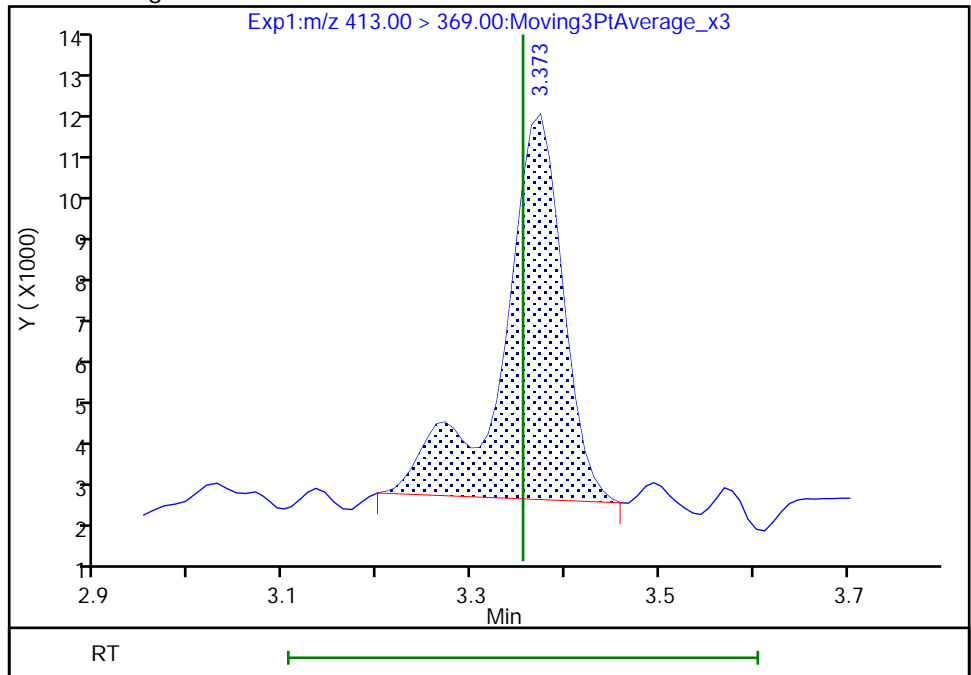
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.37  
Area: 41956  
Amount: 0.687239  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

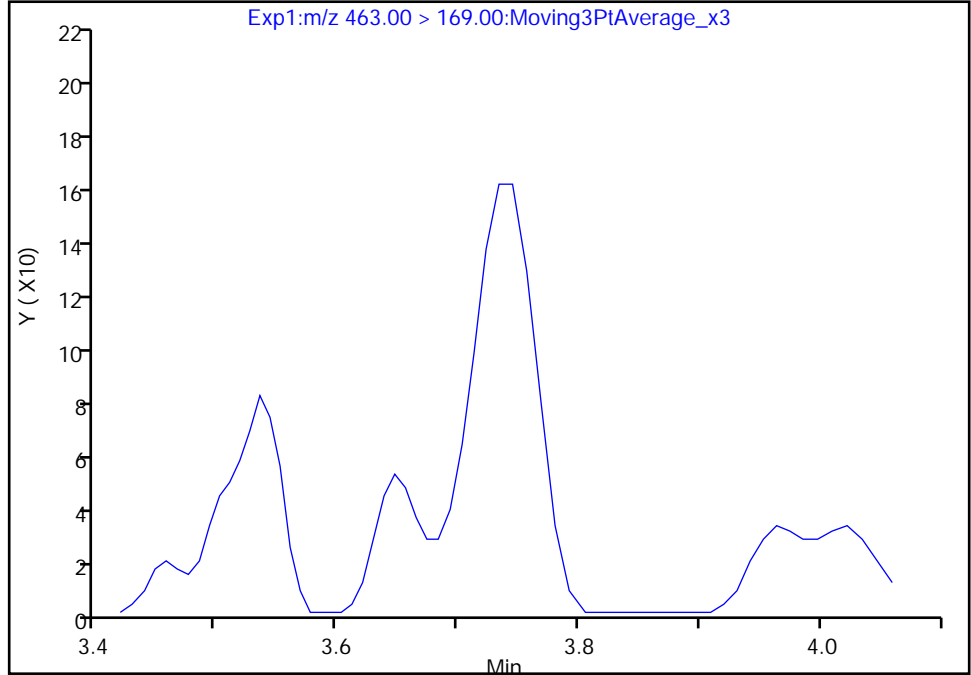
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

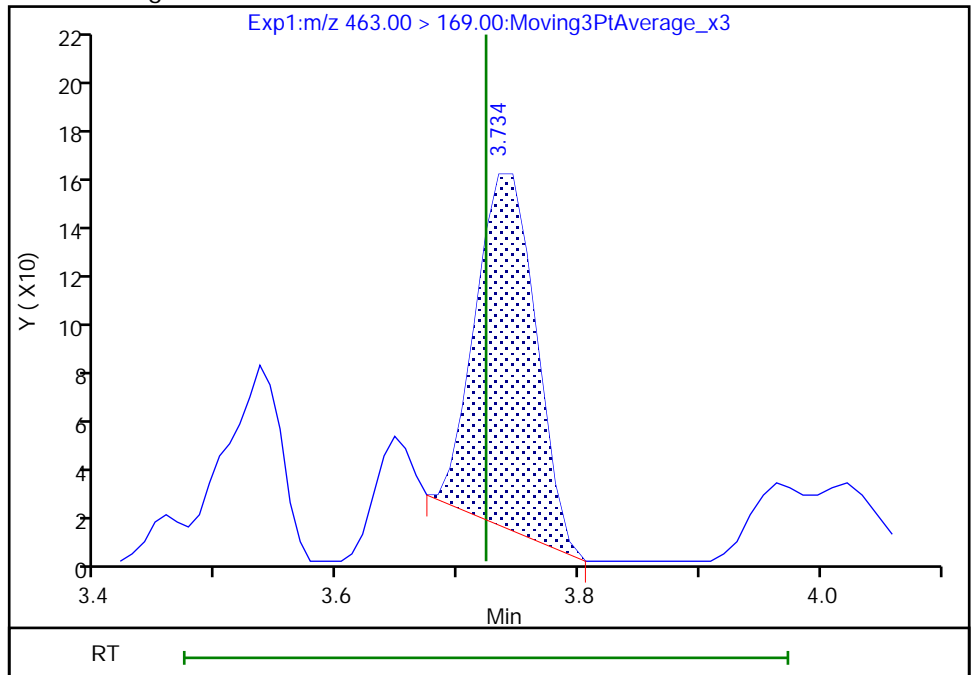
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.73  
Area: 501  
Amount: 0.058699  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:37:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

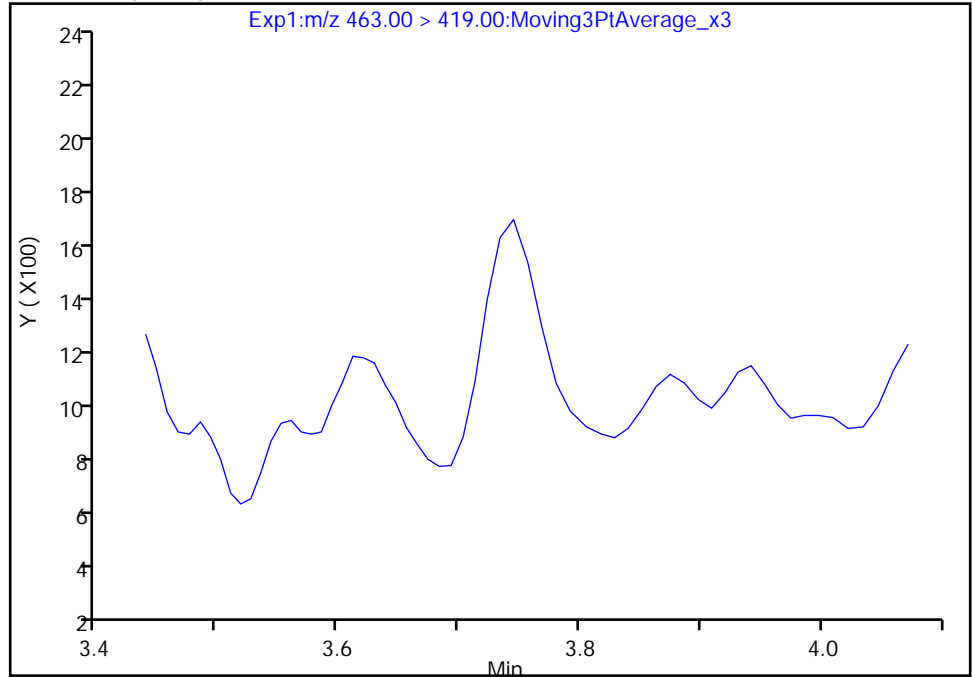
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

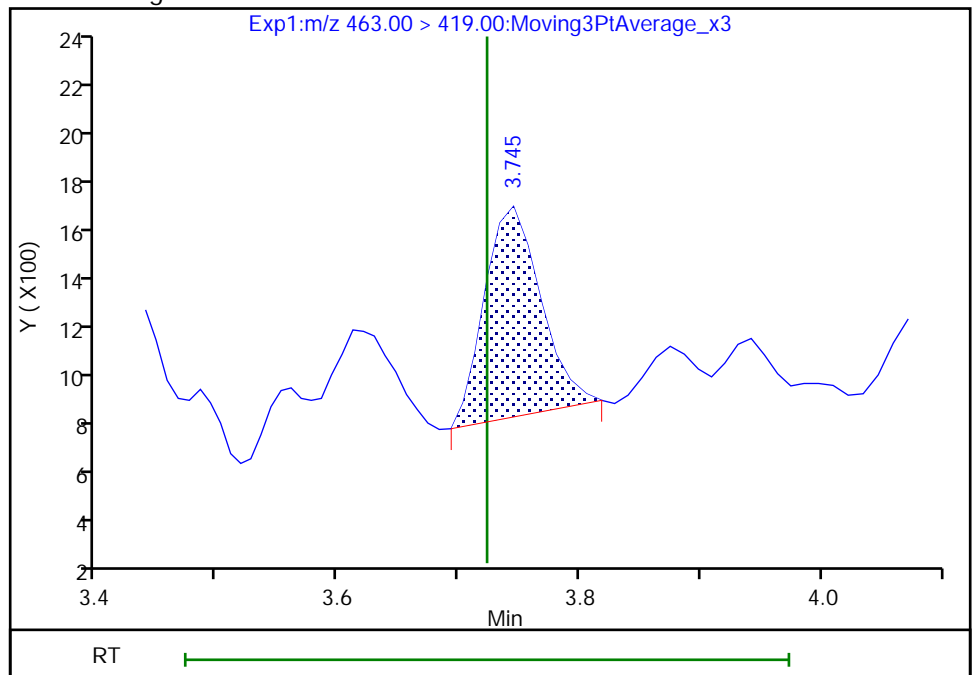
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.74  
Area: 2784  
Amount: 0.058699  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

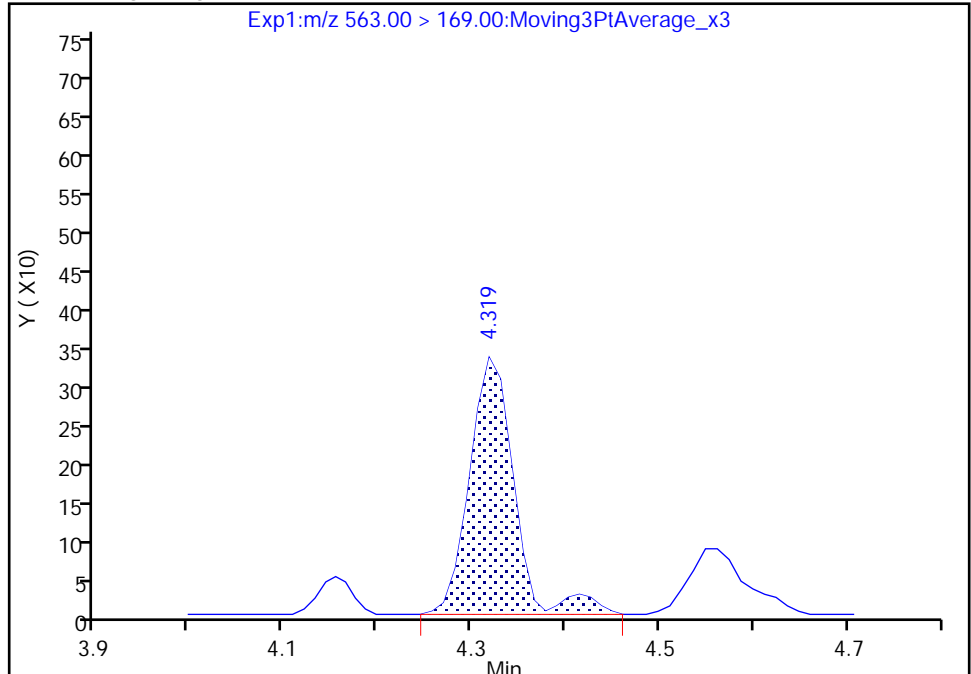
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

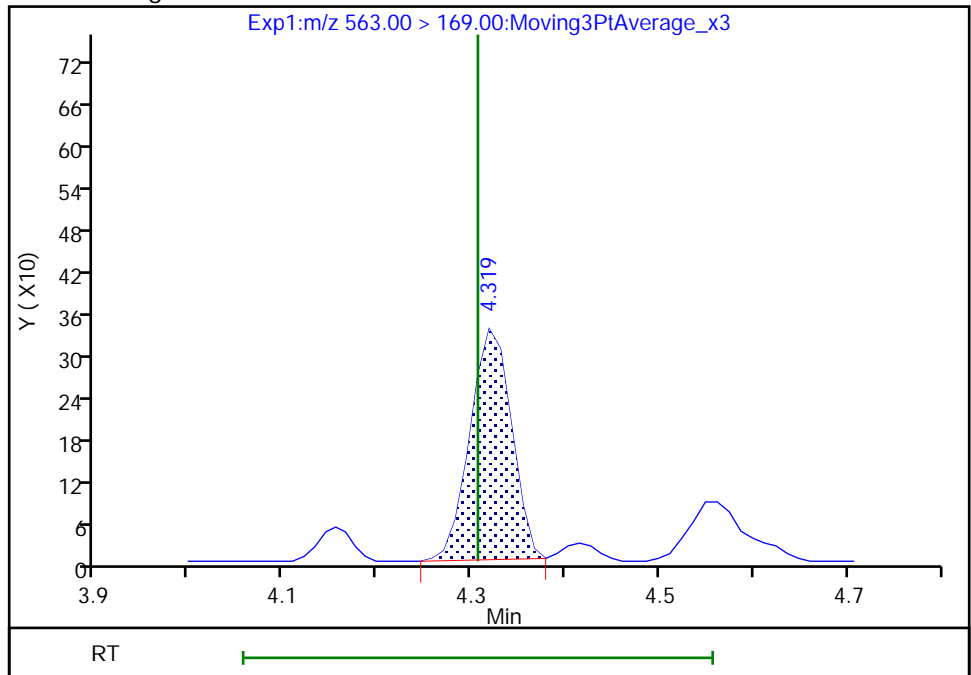
RT: 4.32  
Area: 1098  
Amount: 0.134744  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 1012  
Amount: 0.134744  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:37:51  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

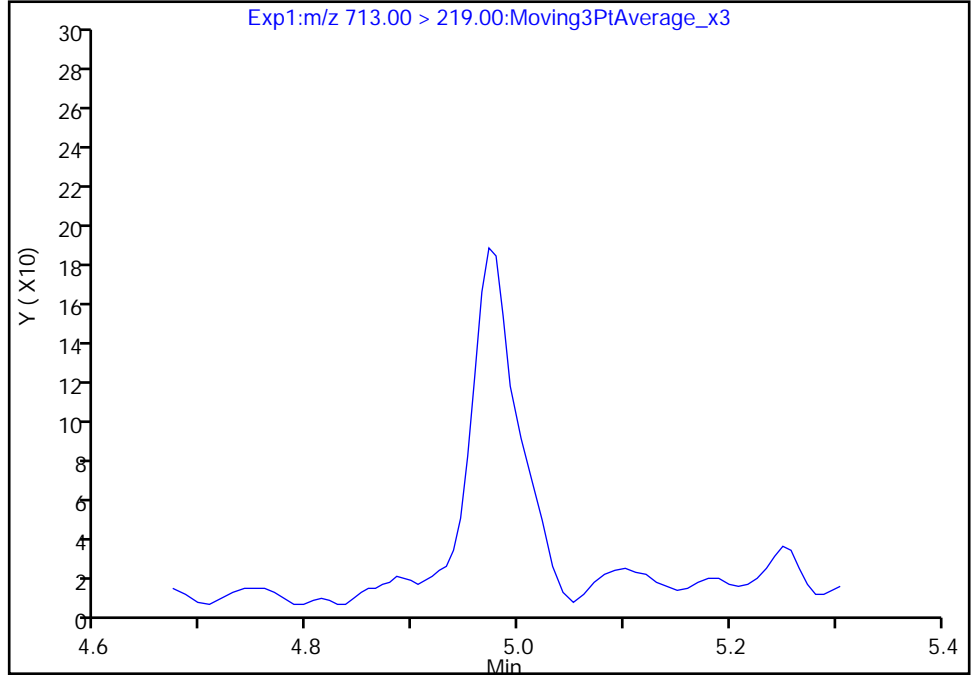
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

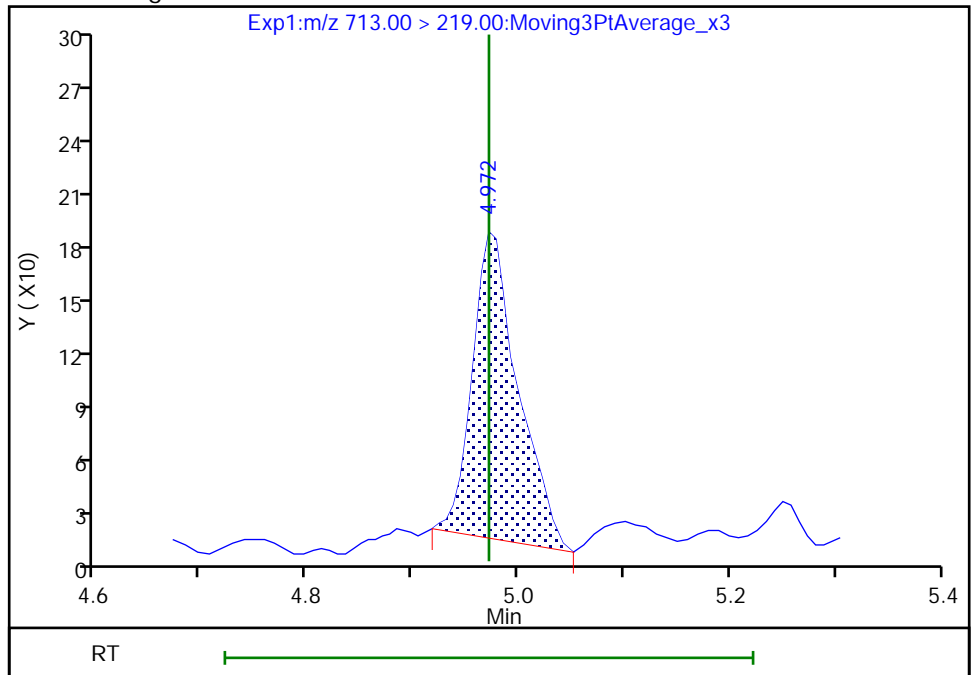
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 507  
Amount: 0.082438  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

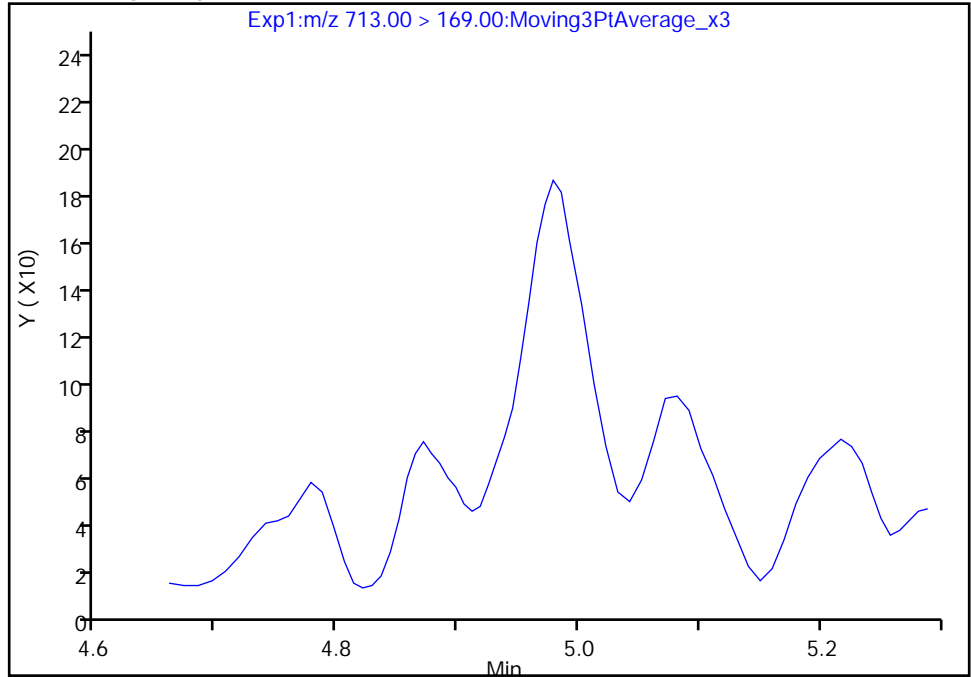
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

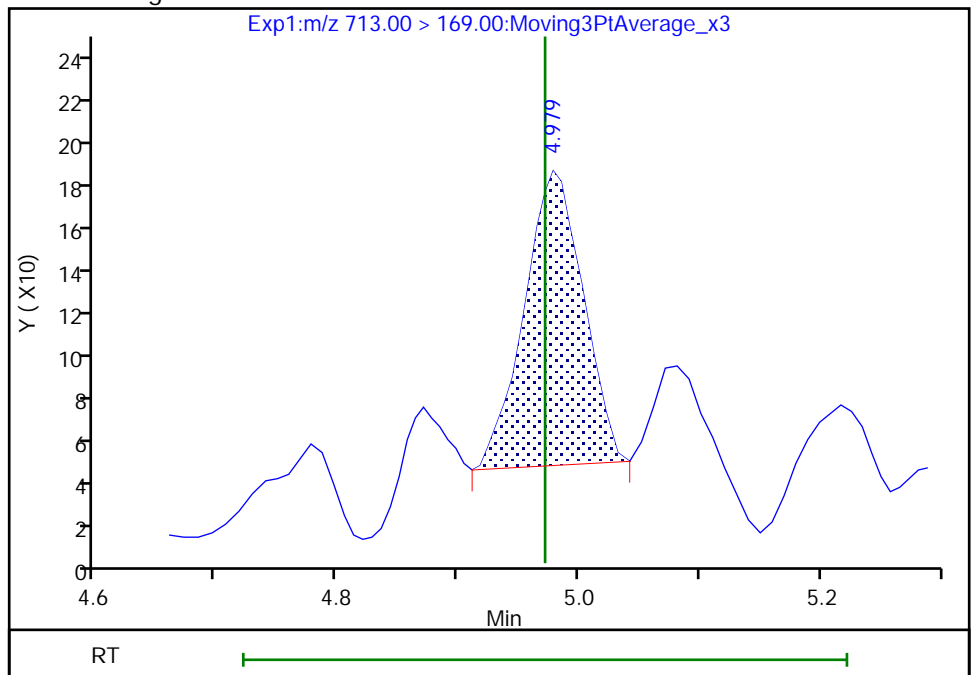
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 458  
Amount: 0.082438  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

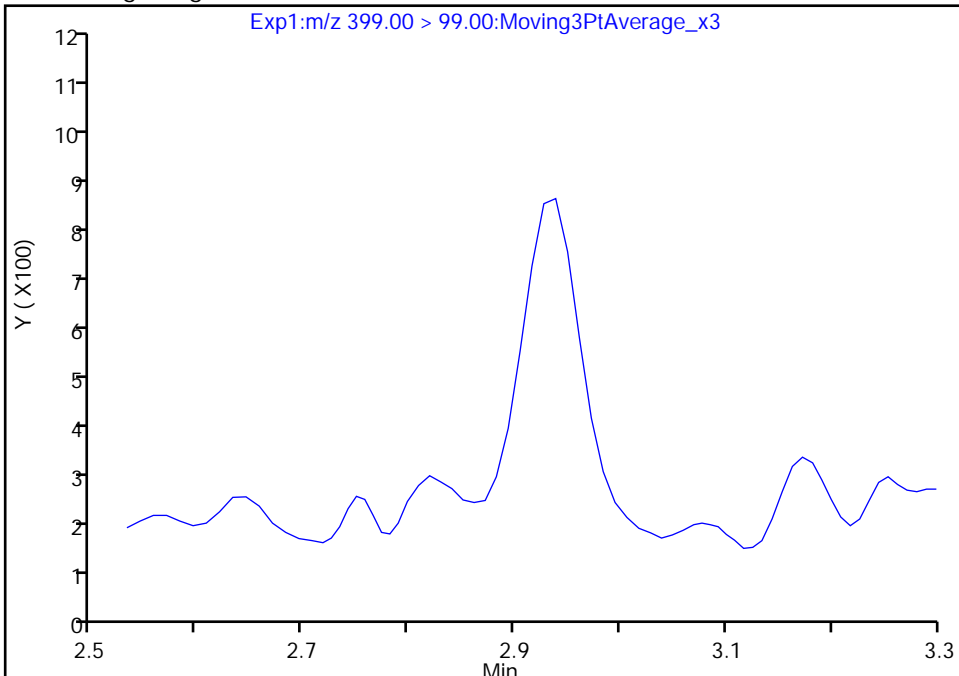
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

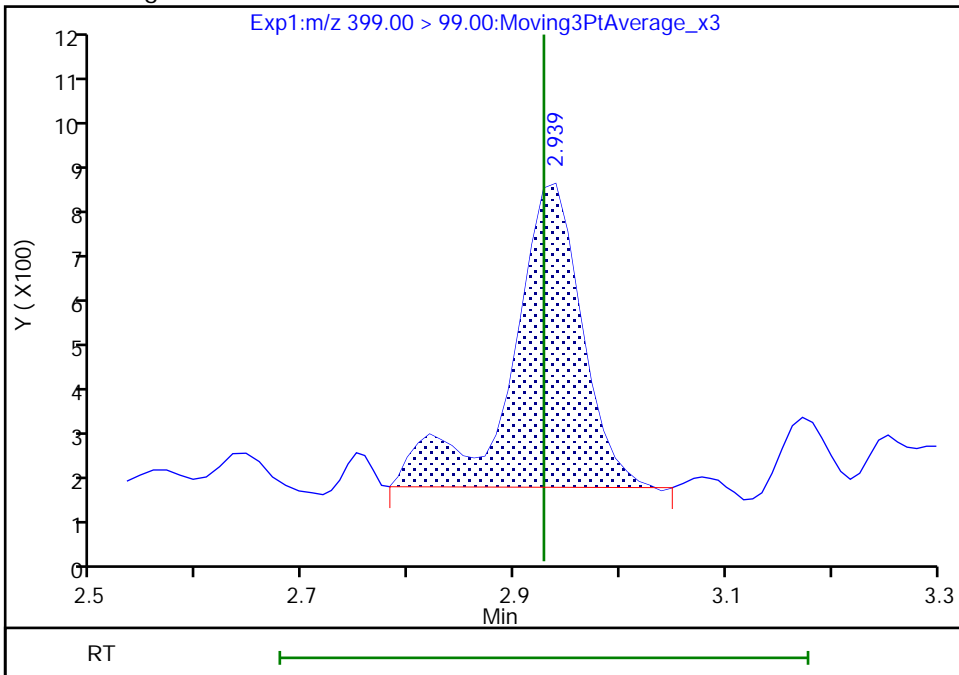
Not Detected  
Expected RT: 2.93

Processing Integration Results



RT: 2.94  
Area: 3031  
Amount: 0.283198  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:36:17  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

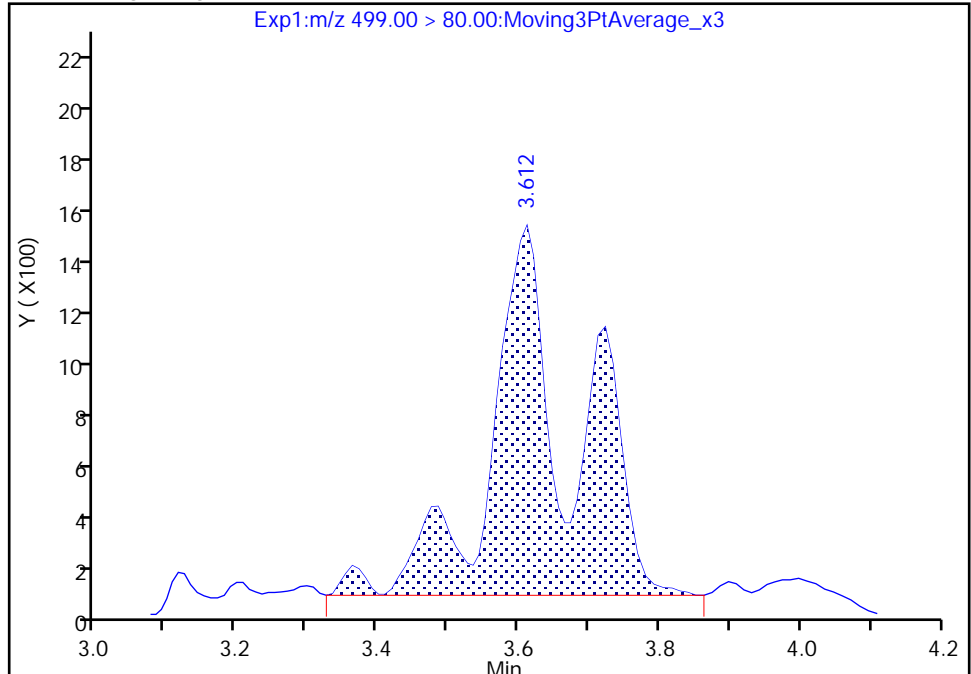
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

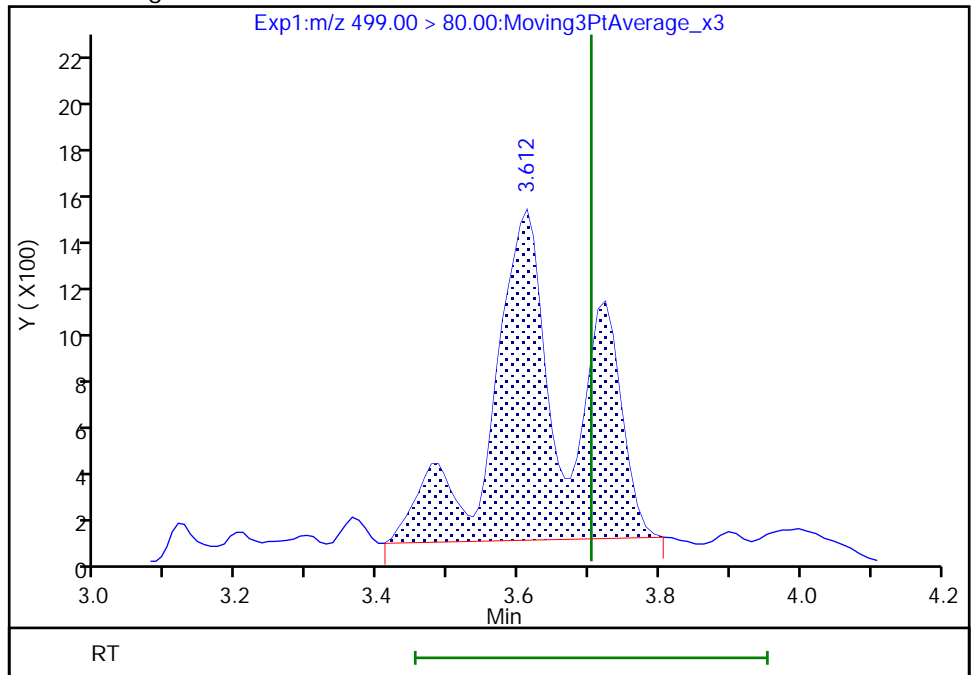
RT: 3.61  
Area: 11838  
Amount: 0.466520  
Amount Units: ng/ml

Processing Integration Results



RT: 3.61  
Area: 11161  
Amount: 0.439840  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:37:03  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

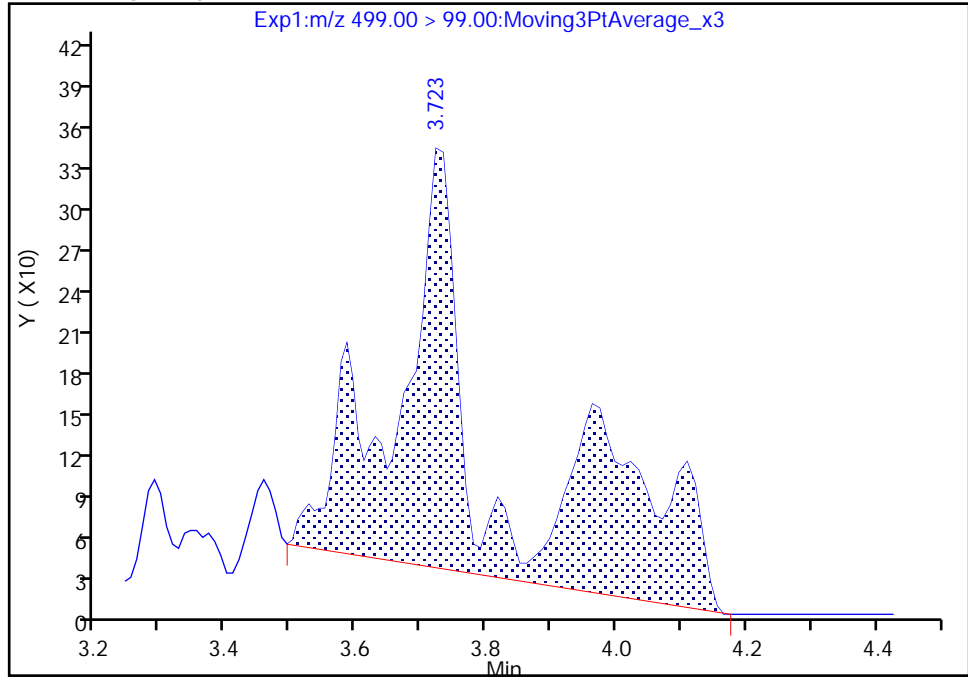
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

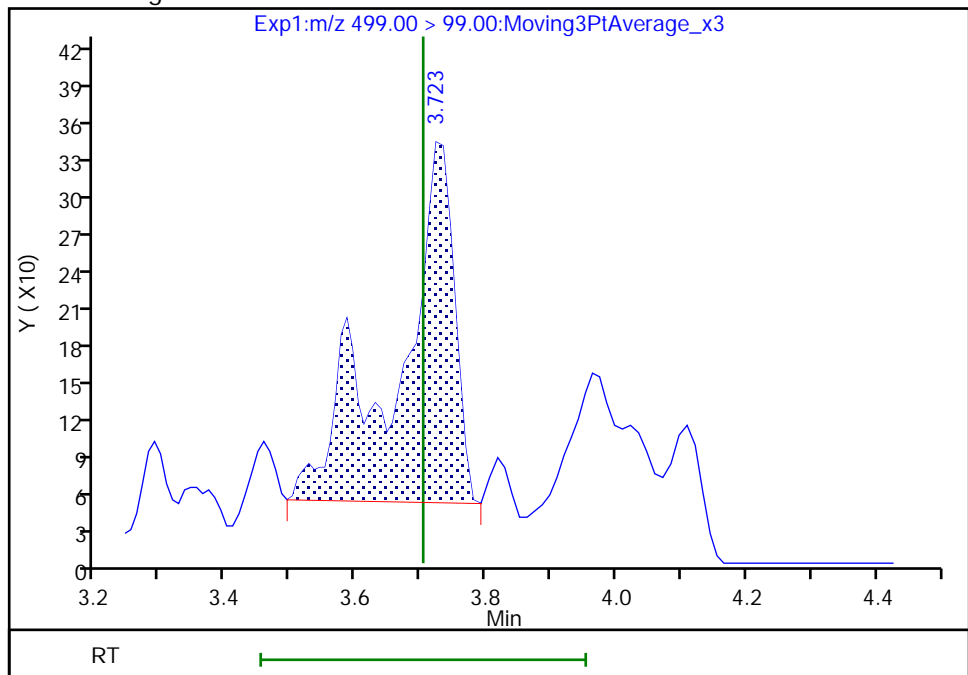
RT: 3.72  
Area: 3420  
Amount: 0.466520  
Amount Units: ng/ml

Processing Integration Results



RT: 3.72  
Area: 1743  
Amount: 0.439840  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:37:10

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

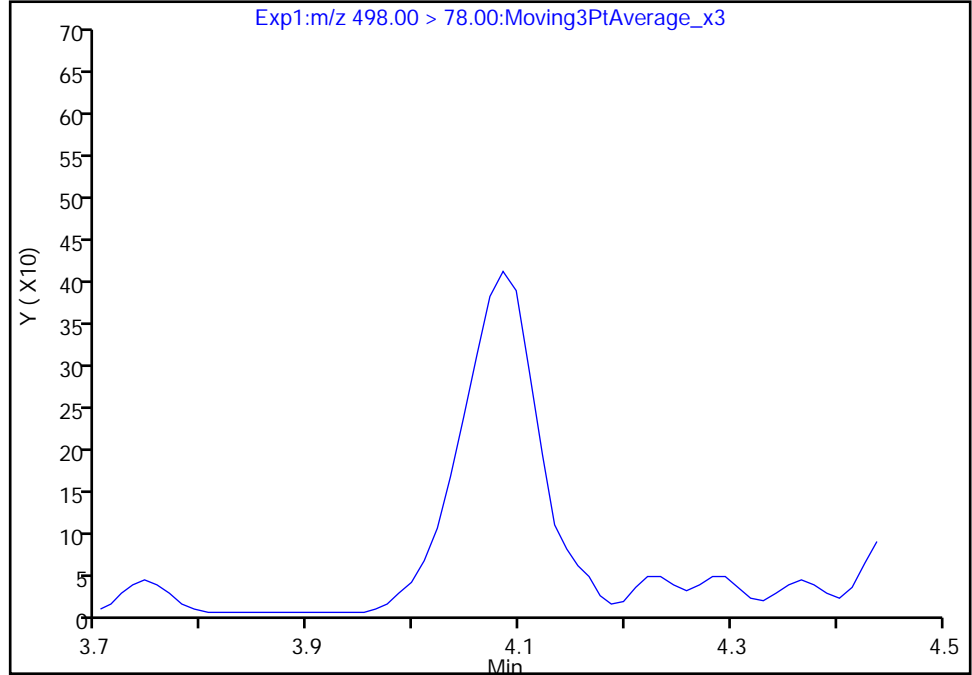
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E021.d  
Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

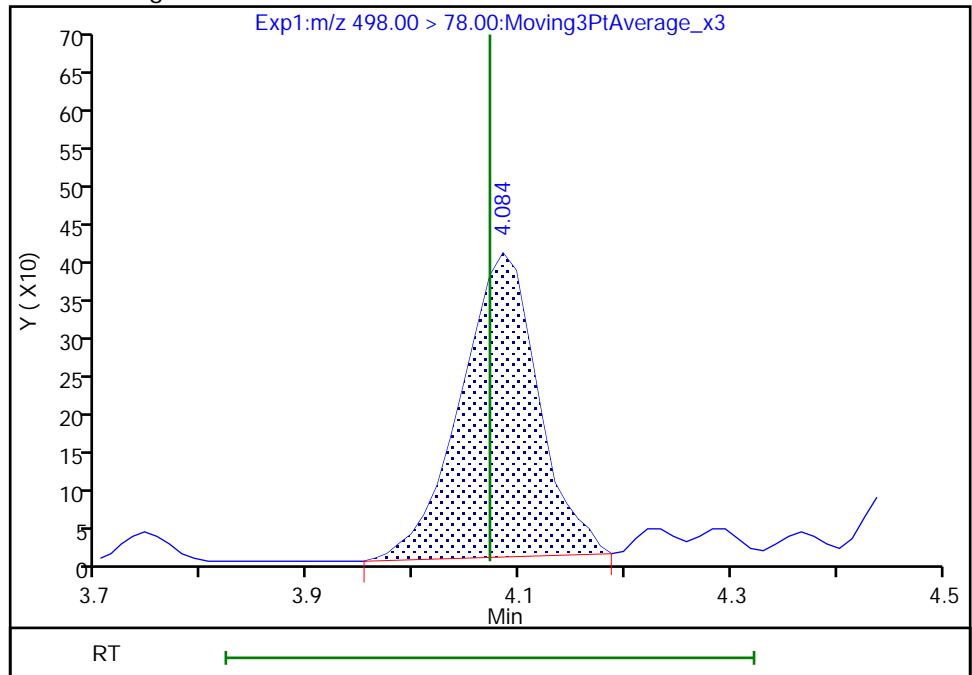
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 2056  
Amount: 0.064426  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:37:35  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

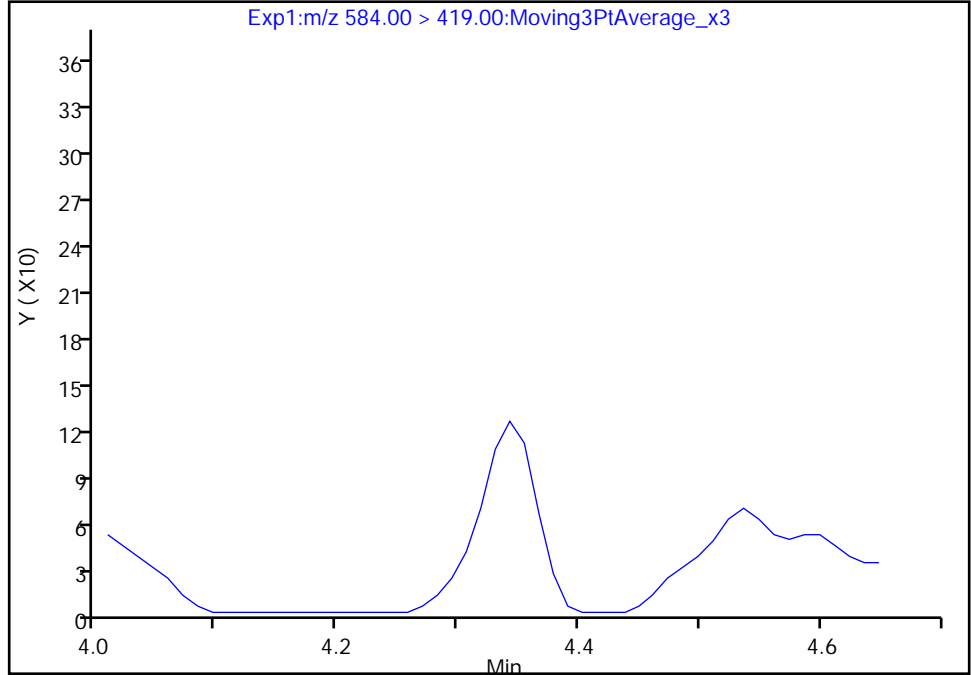
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Injection Date: 02-Aug-2019 06:30:11 Instrument ID: LC812  
Lims ID: 480-156213-F-18-A Lab Sample ID: 200-156213-18  
Client ID: 356023-MW5R  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 21  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6

Signal: 1

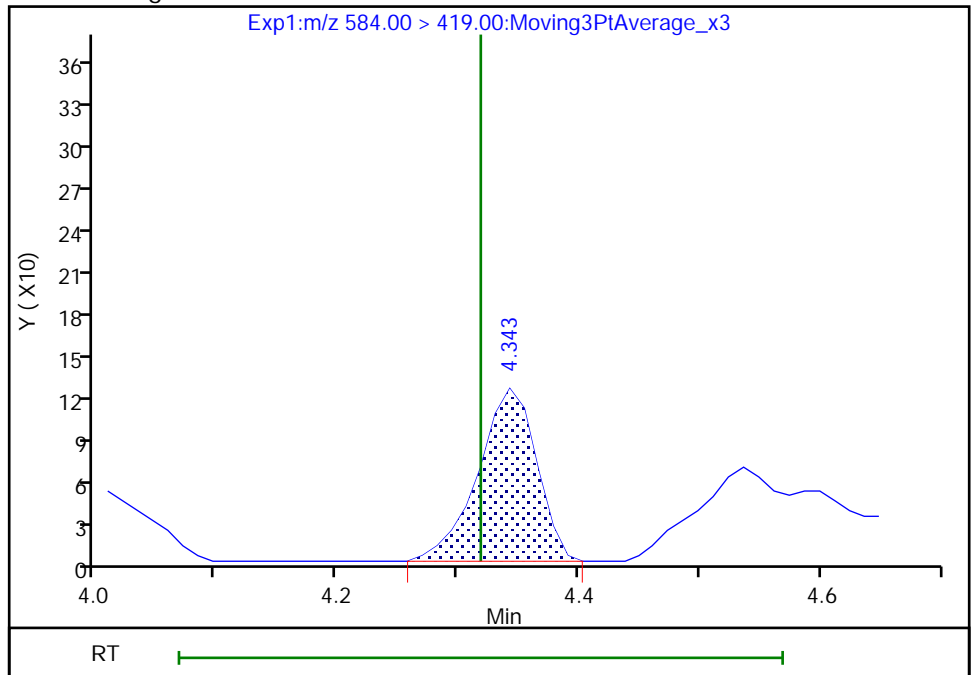
Not Detected  
Expected RT: 4.32

Processing Integration Results



RT: 4.34  
Area: 413  
Amount: 0.138177  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:37:57  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW7R Lab Sample ID: 480-156213-19  
 Matrix: Water Lab File ID: SC080119E022.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 11:30  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 306.9(mL) Date Analyzed: 08/02/2019 06:38  
 Con. Extract Vol.: 0.5(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: C-18 ID: 4.6(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.4	J	1.6	0.81
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.77	J	1.6	0.51
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.62
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.74
335-67-1	Perfluorooctanoic acid (PFOA)	1.5	J	1.6	0.51
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.63
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.43
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.48
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.49
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.75
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.72	J	1.6	0.40
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.65
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.77
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.73
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.97	J	1.6	0.50
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		8.1	8.1
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		16	1.4
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	*	16	1.2
27619-97-2	6:2 FTS	ND		16	3.7
39108-34-4	8:2 FTS	ND		16	2.4

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW7R Lab Sample ID: 480-156213-19  
 Matrix: Water Lab File ID: SC080119E022.d  
 Analysis Method: 537 (modified) Date Collected: 07/12/2019 11:30  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 306.9(mL) Date Analyzed: 08/02/2019 06:38  
 Con. Extract Vol.: 0.5(mL) Dilution Factor: 1  
 Injection Volume: 2(uL) GC Column: C-18 ID: 4.6(mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	55		25-150
STL00992	13C4 PFBA	77		25-150
STL01893	13C5 PFPeA	76		25-150
STL00993	13C2 PFHxA	77		50-150
STL01892	13C4 PFHpA	82		50-150
STL00990	13C4 PFOA	79		50-150
STL00995	13C5 PFNA	78		50-150
STL00996	13C2 PFDA	76		50-150
STL00997	13C2 PFUnA	76		50-150
STL00998	13C2 PFDoA	71		50-150
STL02116	13C2 PFTeDA	59		50-150
STL02337	13C3 PFBS	86		50-150
STL00994	18O2 PFHxS	87		50-150
STL00991	13C4 PFOS	80		50-150
STL02118	d3-NMeFOSAA	57		50-150
STL02117	d5-NEtFOSAA	59		50-150
STL02279	M2-6:2 FTS	95		25-150
STL02280	M2-8:2 FTS	103		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
 Lims ID: 480-156213-F-19-A  
 Client ID: 356023-MW7R  
 Sample Type: Client  
 Inject. Date: 02-Aug-2019 06:38:15 ALS Bottle#: 15 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-19-A  
 Misc. Info.: 200-0037095-022 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:43:32  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.506	2952798	38.3	76.6	10783	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.000	46956	0.8627		8.8	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.613	2736869	37.8	75.6	5815	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	24988	0.4718		1.2	M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.620	2852240	40.1	86.2	373427	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	27523	0.4414	Target=1.90	13.6	
	298.90 > 99.00	2.093	2.093	0.0	1.000	14224		1.93(0.95-2.85)	12.9	
D 7 13C2 PFHxA	315.00 > 270.00	2.471	2.459	0.012	0.732	2753945	38.3	76.6	6889	
6 Perfluorohexanoic acid	313.00 > 269.00	2.471	2.459	0.012	1.000	17746	0.3129	Target=13.23	3.4	M
	313.00 > 119.00	2.471	2.459	0.012	1.000	2073		8.56(6.61-19.84)	3.0	M
D 11 18O2 PFHxS	403.00 > 84.00	2.939	2.916	0.023	0.871	1705062	40.9	86.5	7149	
D 9 13C4 PFHpA	367.00 > 322.00	2.939	2.928	0.011	0.871	2880341	40.9	81.8	6519	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	2.939	2.928	0.011	1.000	12673	0.2668	Target=3.37	10.9	M
	399.00 > 99.00	2.950	2.928	0.022	1.004	3395		3.73(1.69-5.06)	4.0	M
10 Perfluoroheptanoic acid	363.00 > 319.00	2.939	2.928	0.011	1.000	11134	0.2063	Target=3.76	2.6	M
	363.00 > 169.00	2.939	2.928	0.011	1.000	3031		3.67(1.88-5.65)	13.1	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.355	3.335	0.020	0.995	390257	45.0		94.7	638	
13 1H,1H,2H,2H-perfluorooctanesuloni										
427.00 > 407.00	3.364	3.336	0.028	1.003	7016	0.4979			22.2	
D 14 13C4 PFOA										
417.00 > 372.00	3.373	3.344	0.029	1.000	2947423	39.6		79.2	10933	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.373	3.355	0.018	1.000	57981	0.9039	Target=2.84		5.9	M
413.00 > 169.00	3.373	3.355	0.018	1.000	24621		2.35(1.42-4.25)		63.3	M
* 62 13C2 PFOA										
415.00 > 370.00	3.373	3.355	0.018		4091619	50.0			13828	
D 18 13C4 PFOS										
503.00 > 80.00	3.723	3.695	0.028	1.104	1326273	38.2		79.9	4512	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.612	3.703	-0.091	0.970	15573	0.5930	Target=4.33		25.2	RM
499.00 > 99.00	3.703	3.703	0.0	0.995	2231		6.98(2.16-6.49)		3.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.745	3.715	0.030	1.110	2661592	39.2		78.4	12825	
20 Perfluorononanoic acid										
463.00 > 419.00	3.745	3.723	0.022	1.000	4312	0.0894	Target=8.15		1.6	M
463.00 > 169.00	3.734	3.723	0.011	0.997	562		7.67(4.08-12.23)		6.6	M
D 23 13C2 PFDA										
515.00 > 470.00	4.060	4.036	0.024	1.203	2071830	38.1		76.3	15876	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.060	4.036	0.024	1.203	395238	49.4		103	781	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.060	4.047	0.013	1.000	3167	0.0789	Target=9.58		1.3	M
513.00 > 169.00	4.060	4.047	0.013	1.000	622		5.09(4.79-14.37)		4.8	M
D 21 13C8 FOSA										
506.00 > 78.00	4.084	4.061	0.023	1.211	1722721	27.6		55.3	5129	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.084	4.072	0.012	1.000	2097	0.0667			13.3	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.198	4.178	0.020	1.245	198093	28.6		57.1	1692	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.280	1868389	37.8		75.5	17203	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.307	0.012	1.000	5650	0.1762	Target=7.95		2.7	M
563.00 > 169.00	4.319	4.307	0.012	1.000	1164		4.85(3.98-11.93)		12.0	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.331	4.308	0.023	1.284	227381	29.4		58.8	867	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.307	4.319	-0.012	0.994	279	0.0959			2.2	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.537	0.012	1.349	1889725	35.5		71.0	4963	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.474	2178303	29.7		59.4	9681	

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d

Injection Date: 02-Aug-2019 06:38:15

Instrument ID: LC812

Lims ID: 480-156213-F-19-A

Lab Sample ID: 200-156213-19

Client ID: 356023-MW7R

Operator ID: lc812tech

ALS Bottle#: 15

Worklist Smp#: 22

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

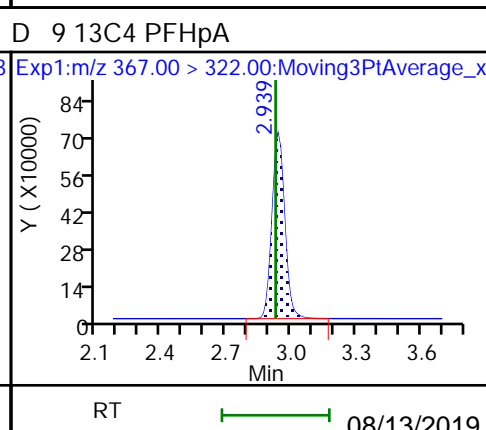
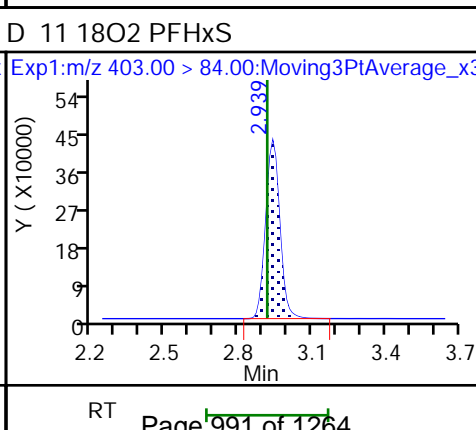
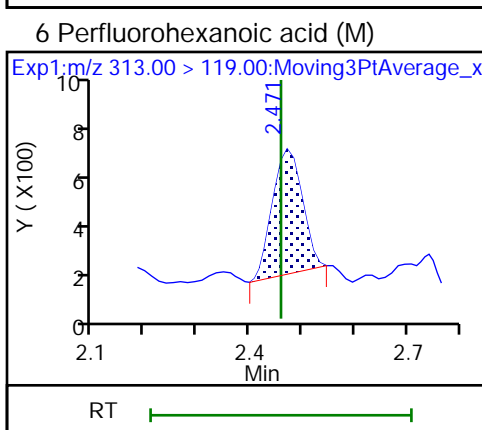
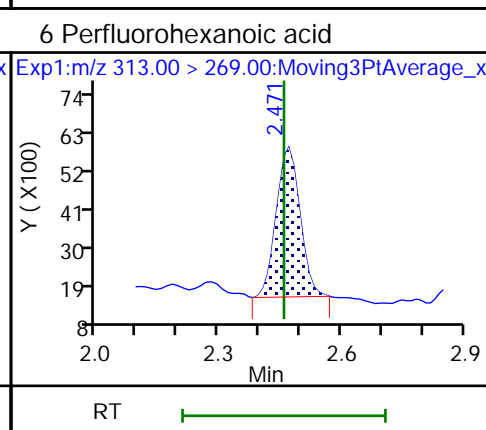
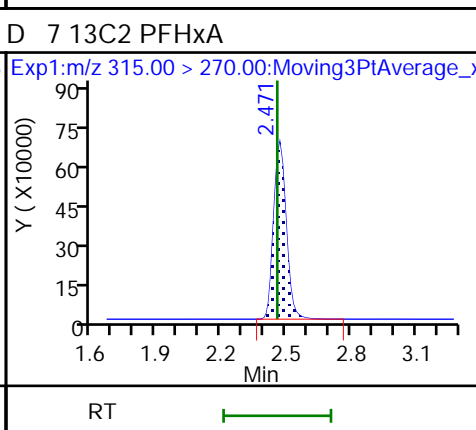
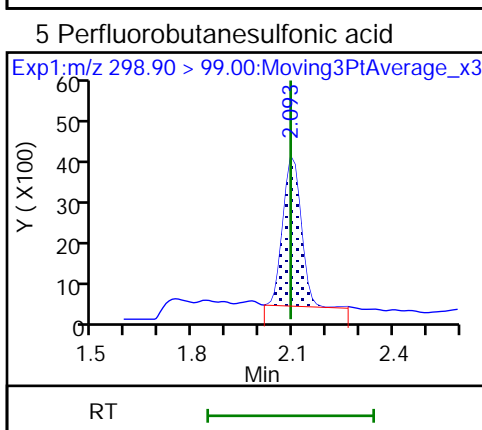
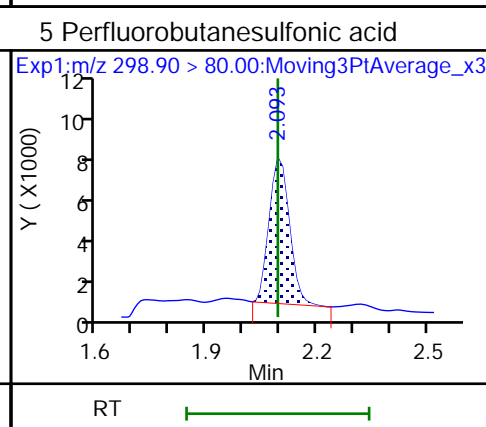
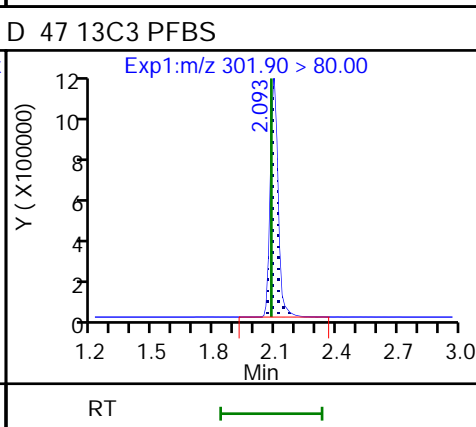
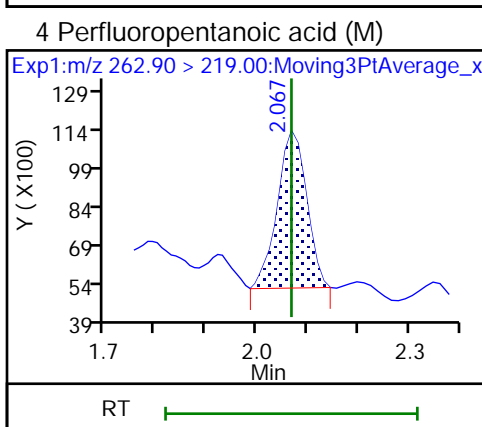
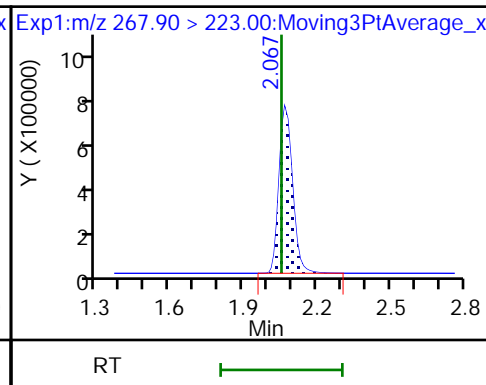
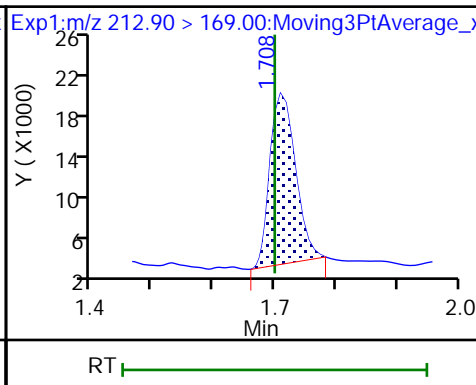
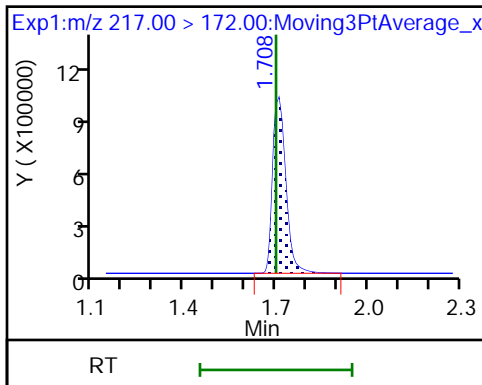
Method: PFC\_LC812

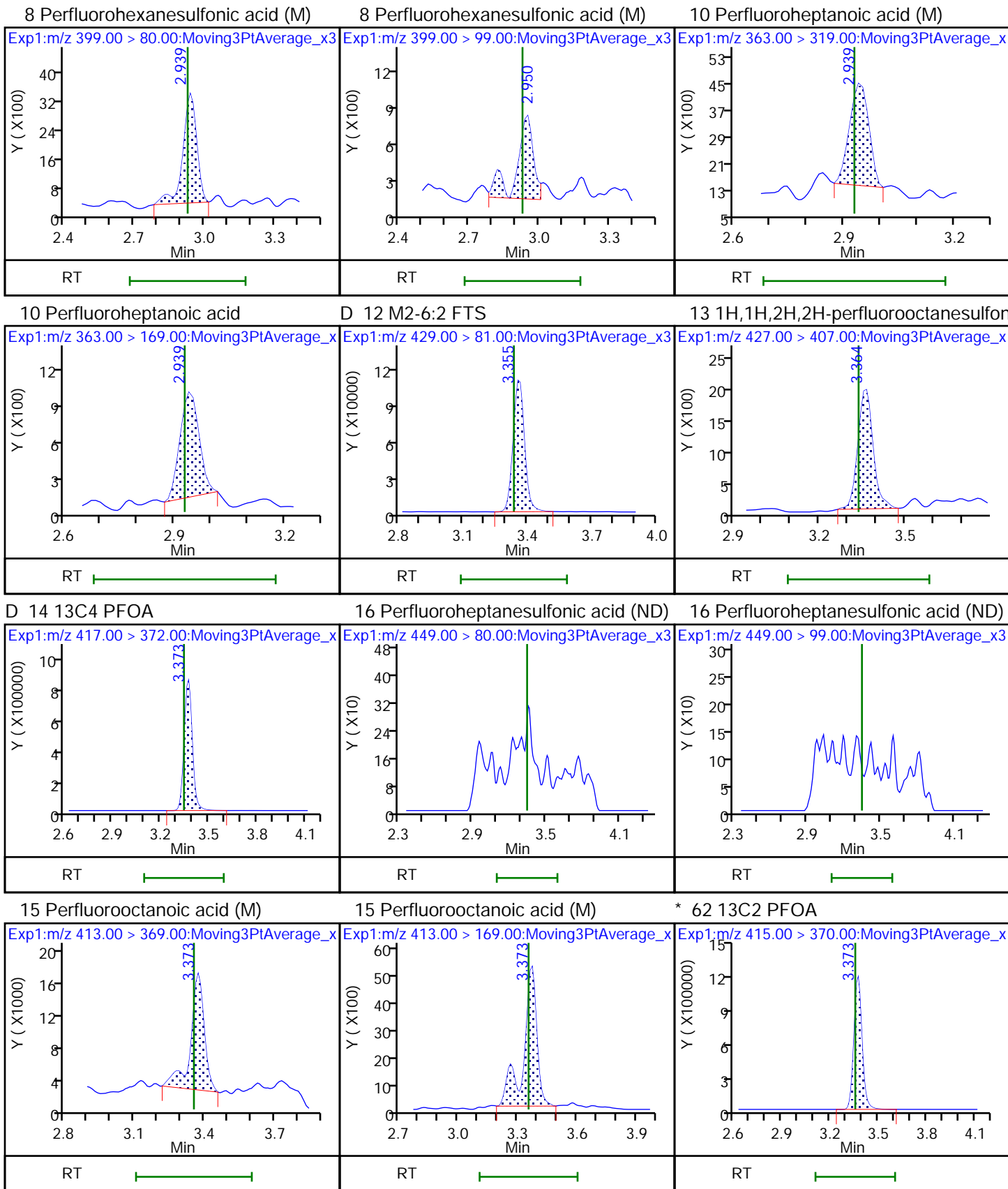
Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

D 3 13C5 PFPeA

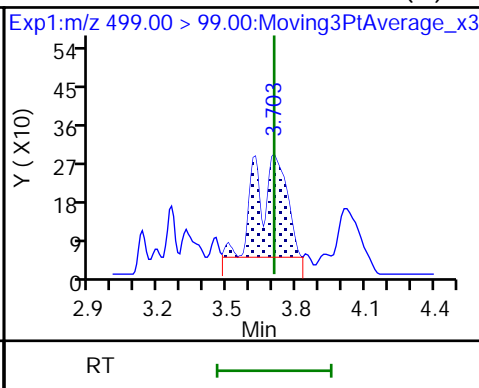
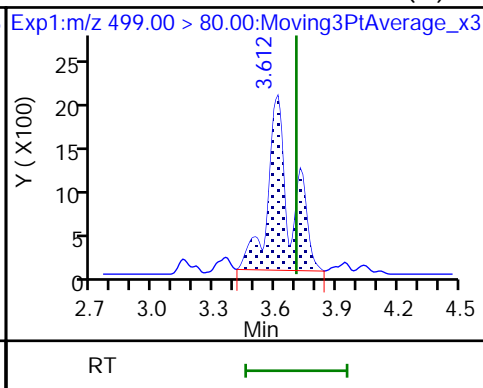
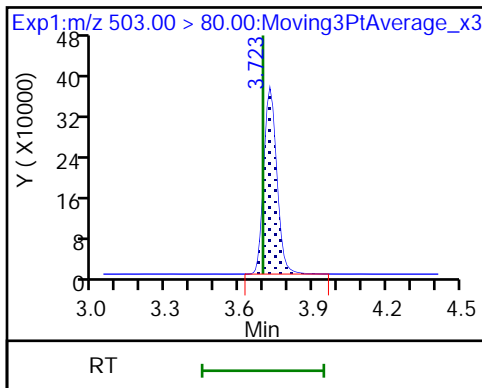




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

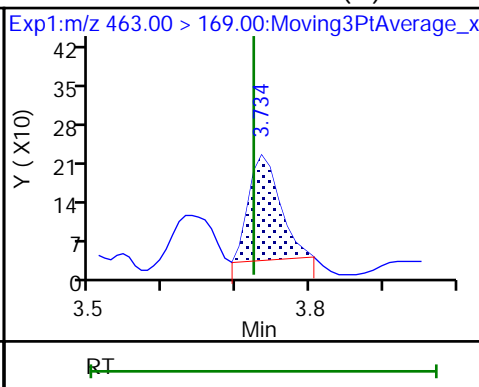
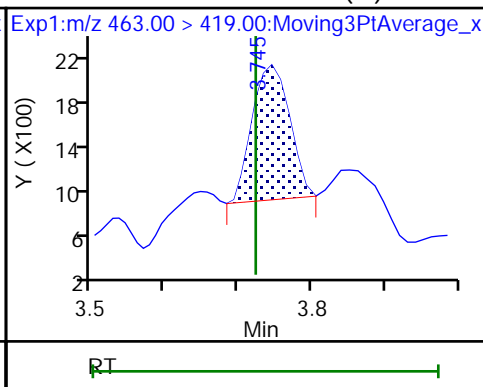
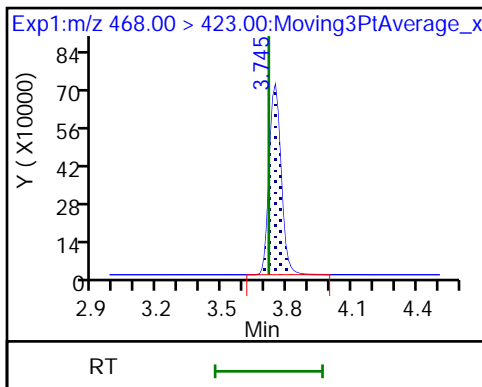
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

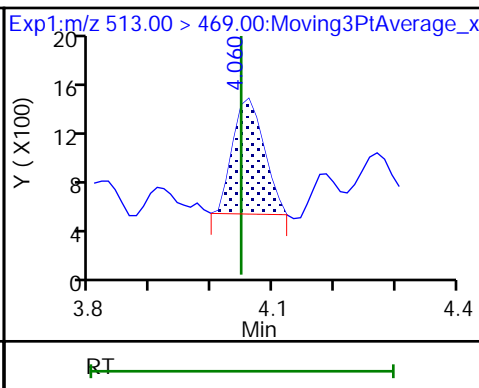
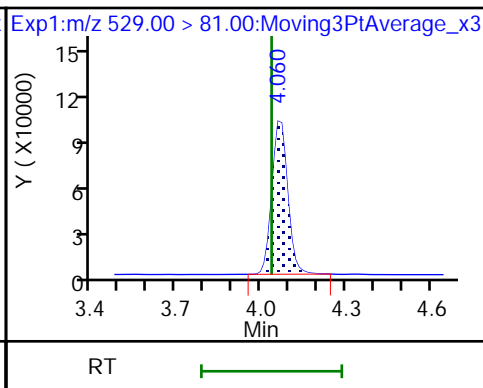
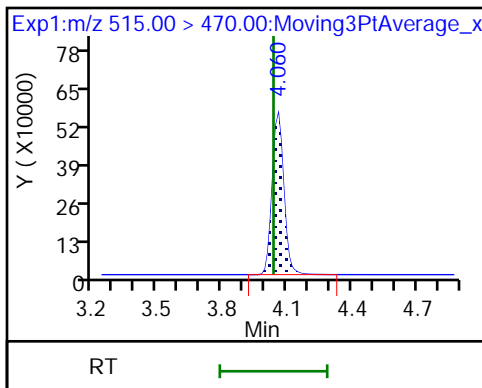
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

D 26 M2-8:2 FTS

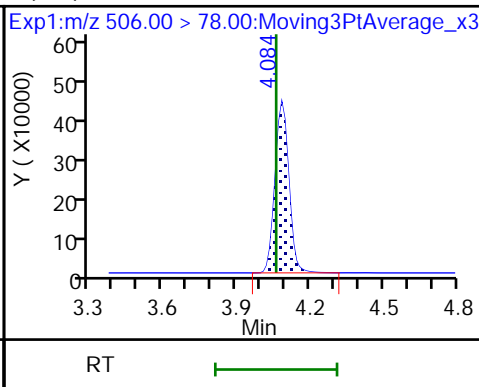
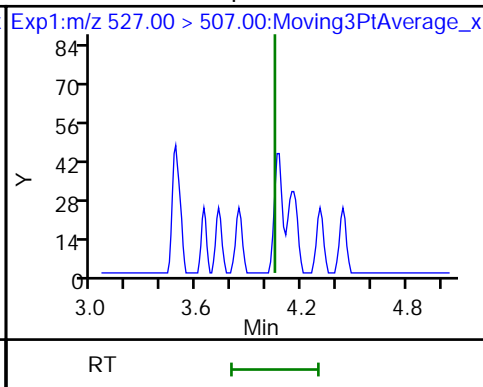
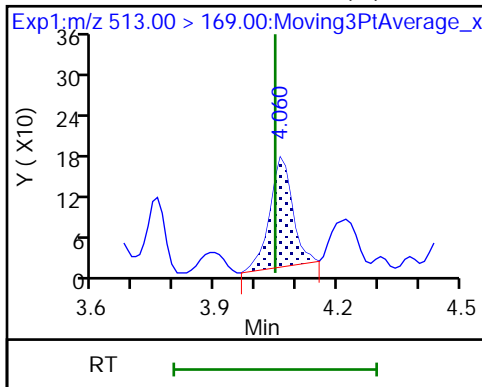
24 Perfluorodecanoic acid



24 Perfluorodecanoic acid (M)

25 1H,1H,2H,2H-perfluorodecanesulfonate (M)

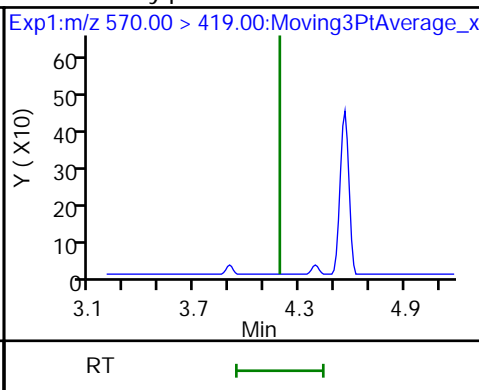
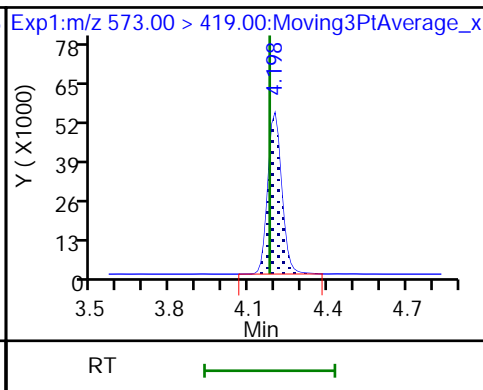
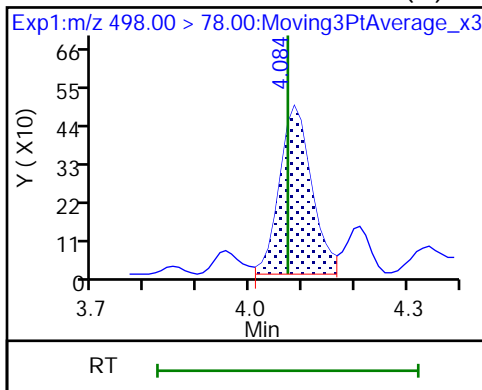
(M) 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

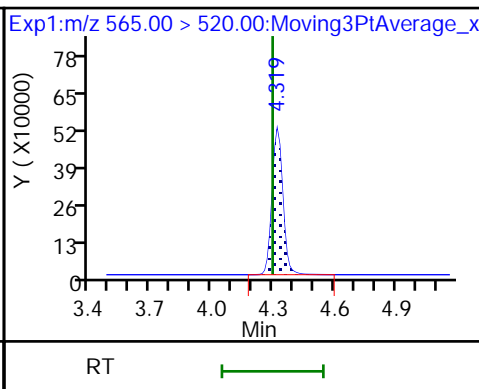
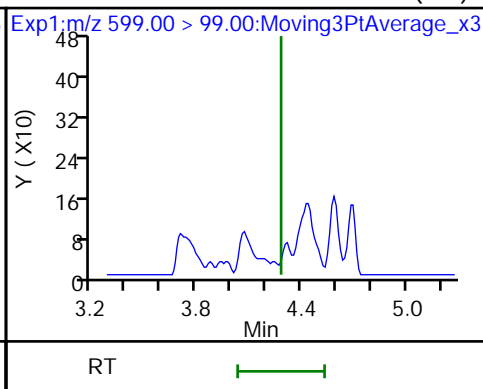
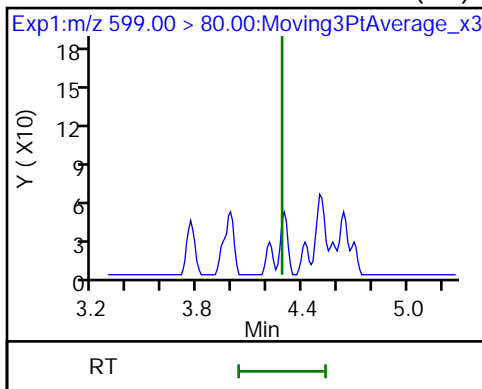
28 N-methylperfluorooctanesulfonamido (ND)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

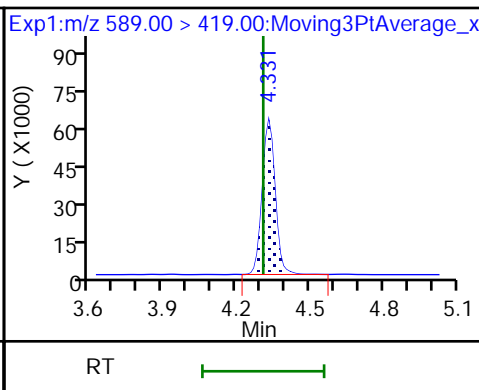
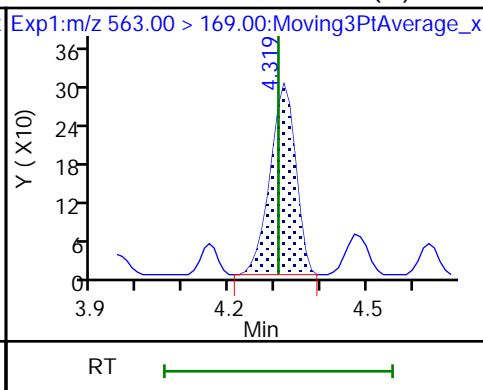
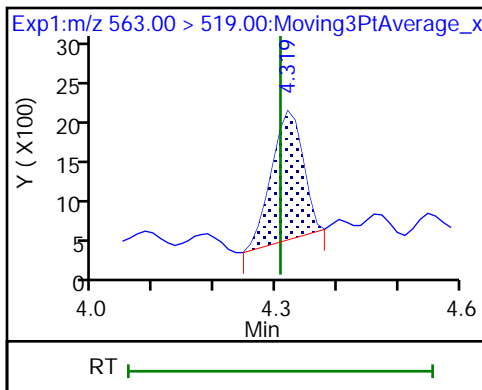
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid (M)

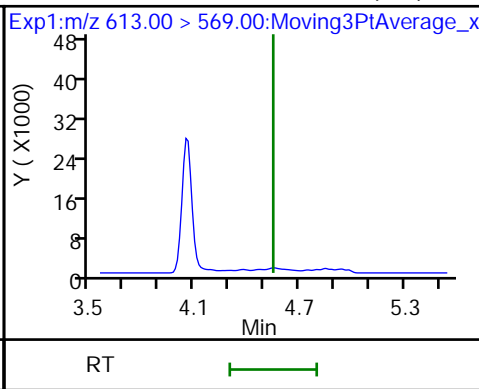
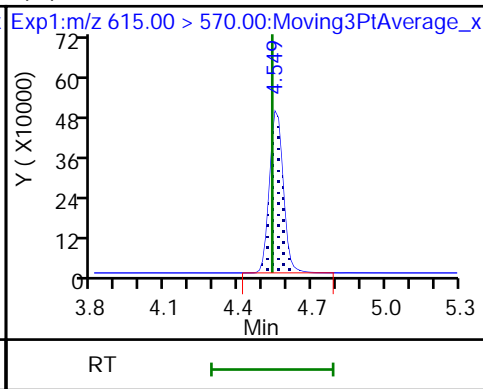
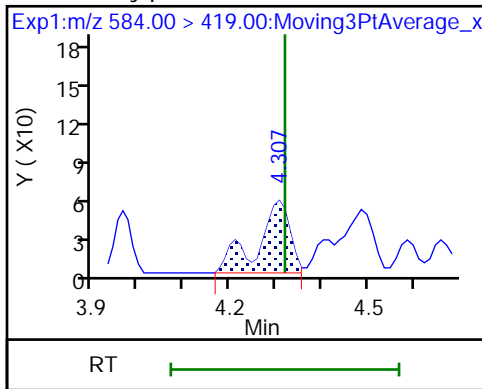
D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamido (M)

D 36 13C2 PFDoA

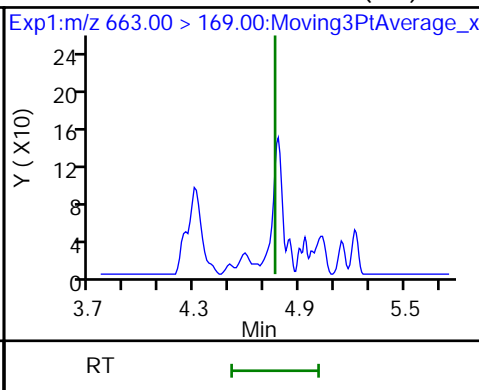
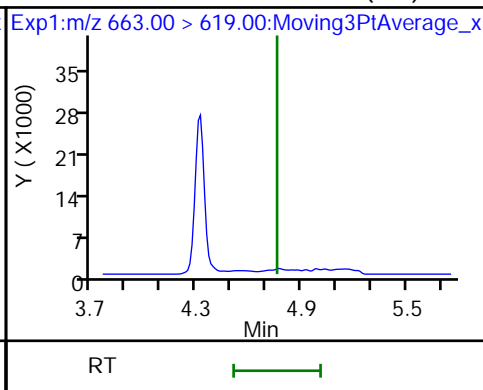
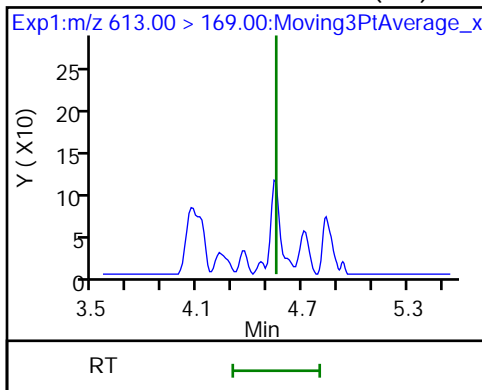
37 Perfluorododecanoic acid (ND)



37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (ND)

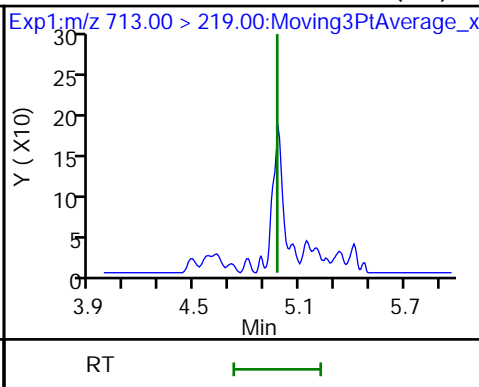
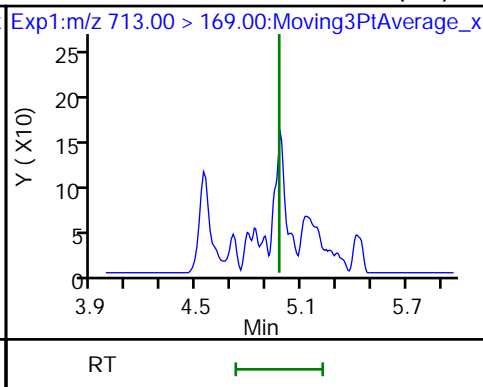
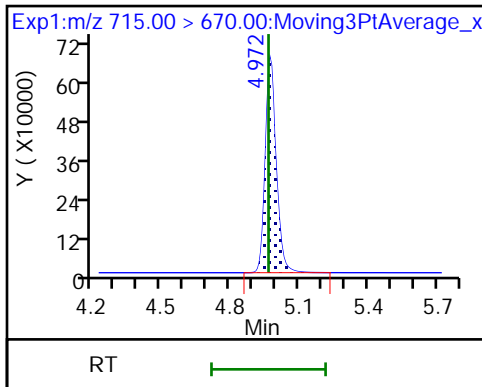
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (ND)

42 Perfluorotetradecanoic acid (ND)



Eurofins TestAmerica, Burlington

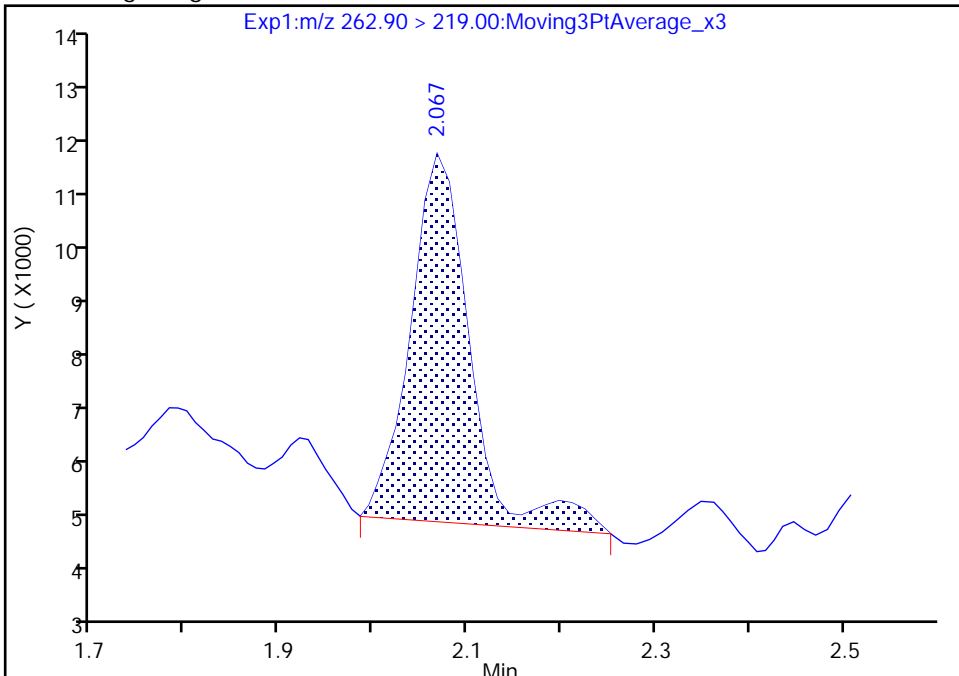
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

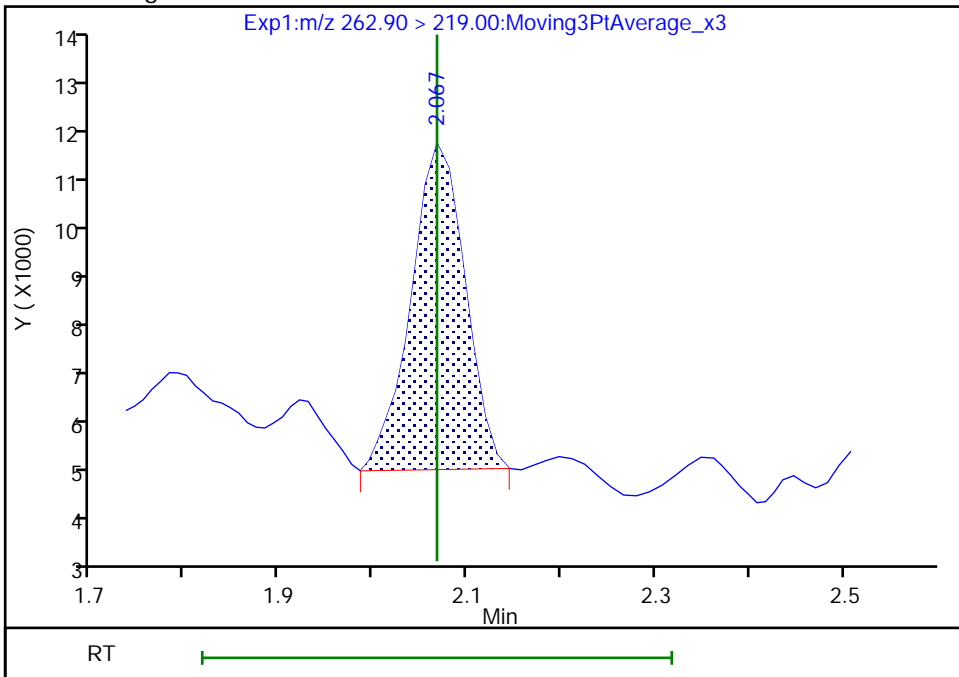
RT: 2.07  
Area: 28219  
Amount: 0.532761  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 24988  
Amount: 0.471761  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:38:56  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

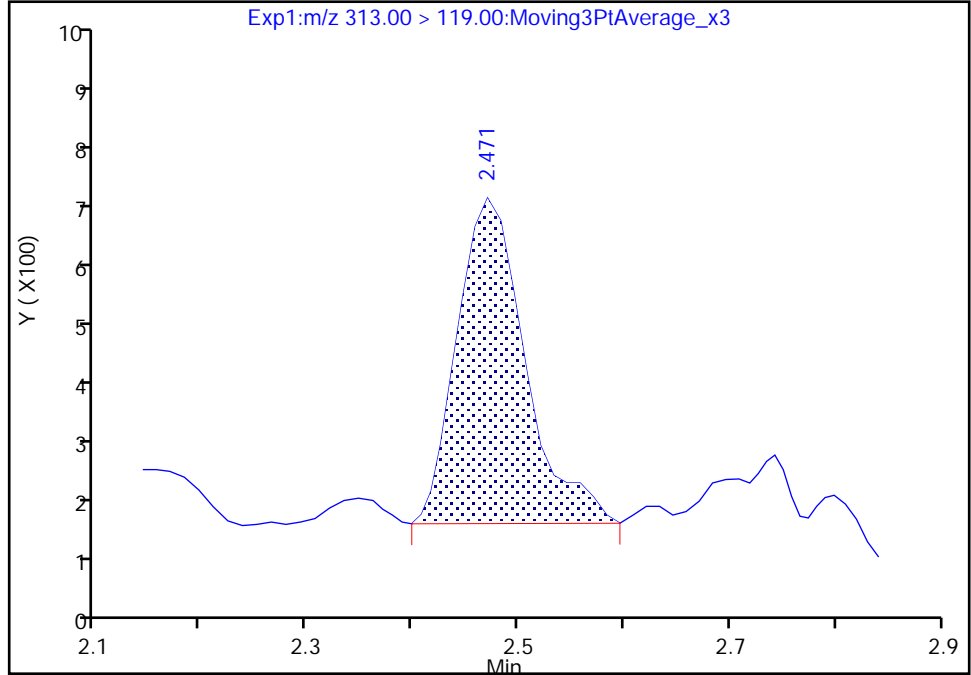
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

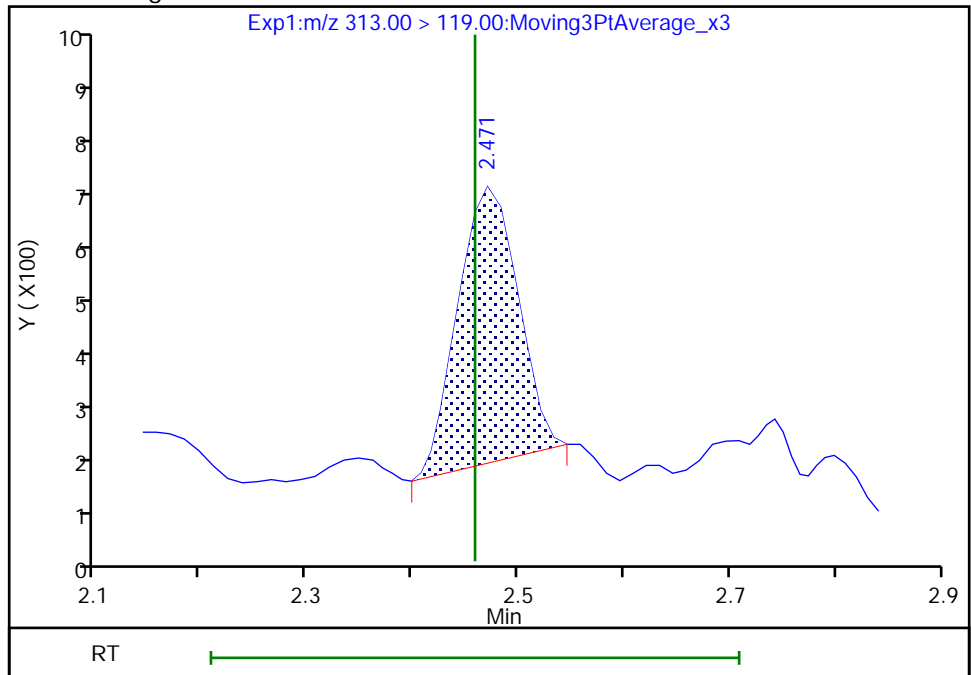
RT: 2.47  
Area: 2500  
Amount: 0.312875  
Amount Units: ng/ml

Processing Integration Results



RT: 2.47  
Area: 2073  
Amount: 0.312875  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:39:05  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

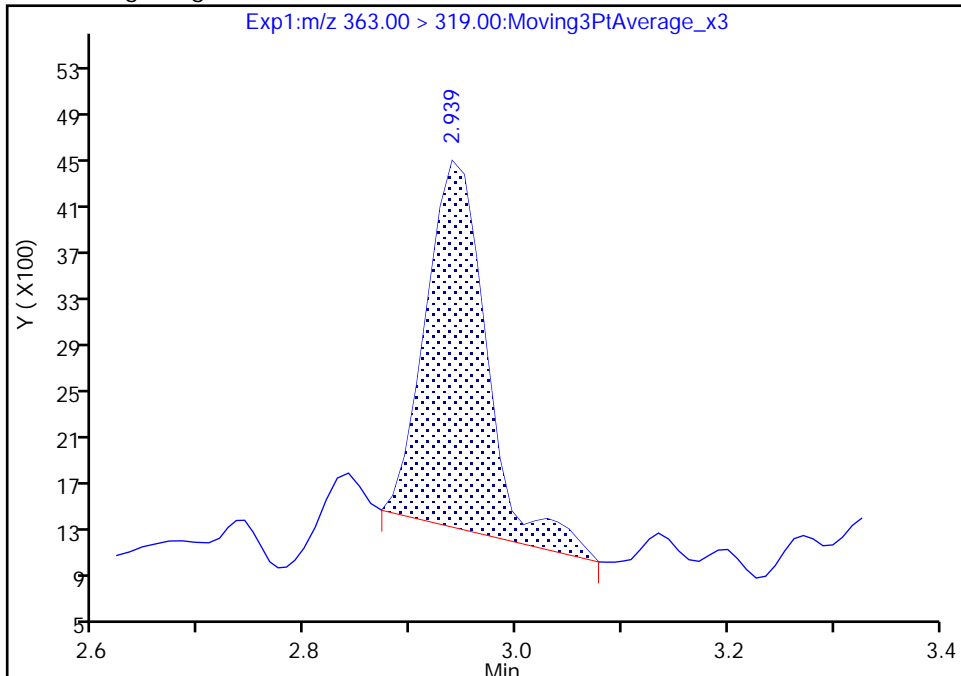
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

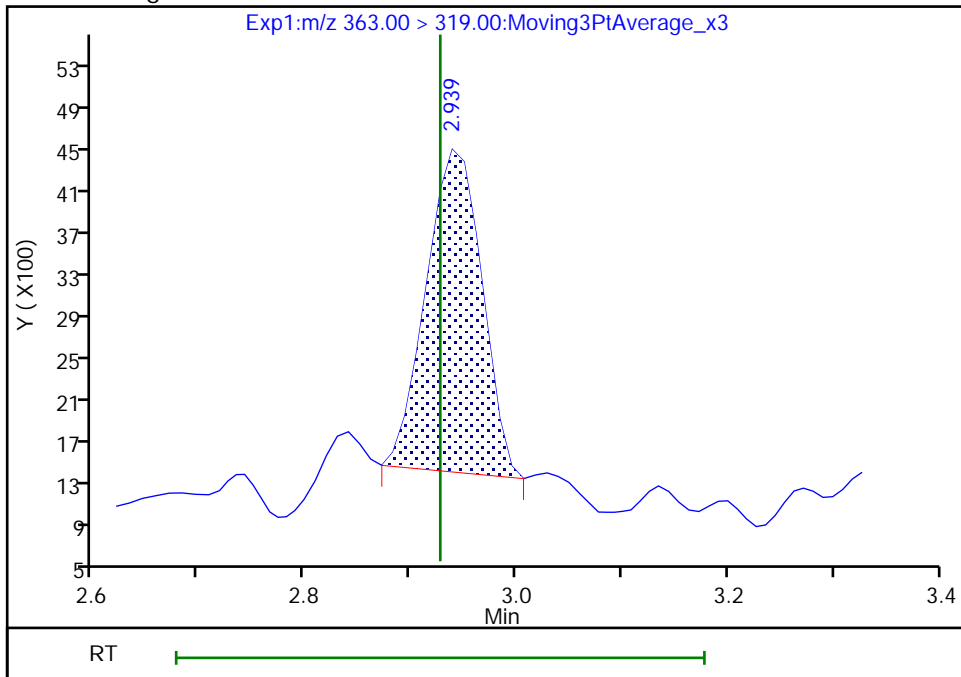
RT: 2.94  
Area: 12568  
Amount: 0.232924  
Amount Units: ng/ml

Processing Integration Results



RT: 2.94  
Area: 11134  
Amount: 0.206347  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:40:30  
Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Burlington

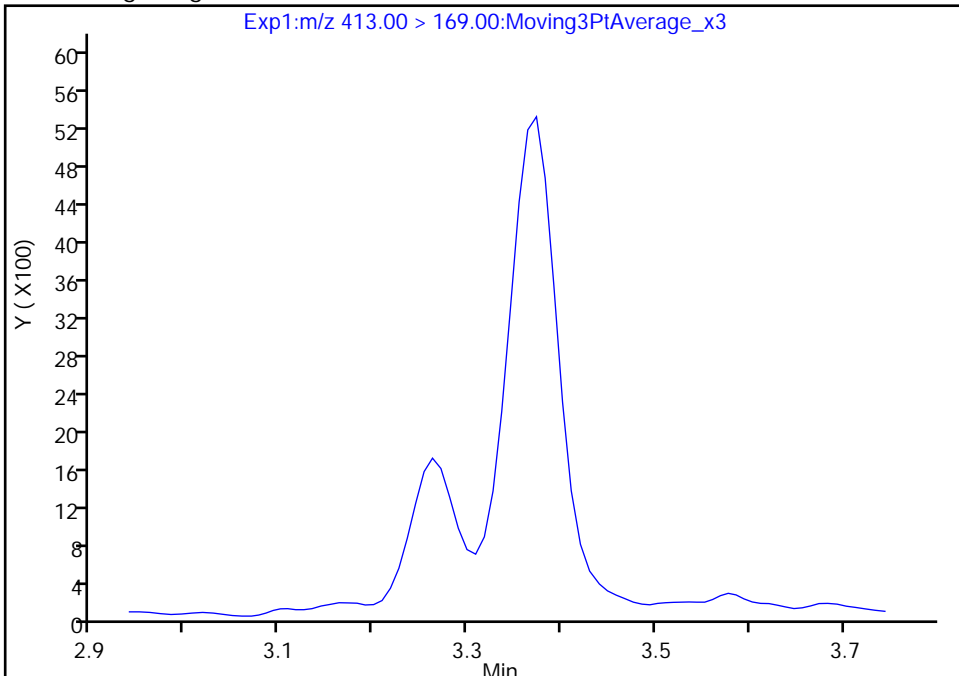
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

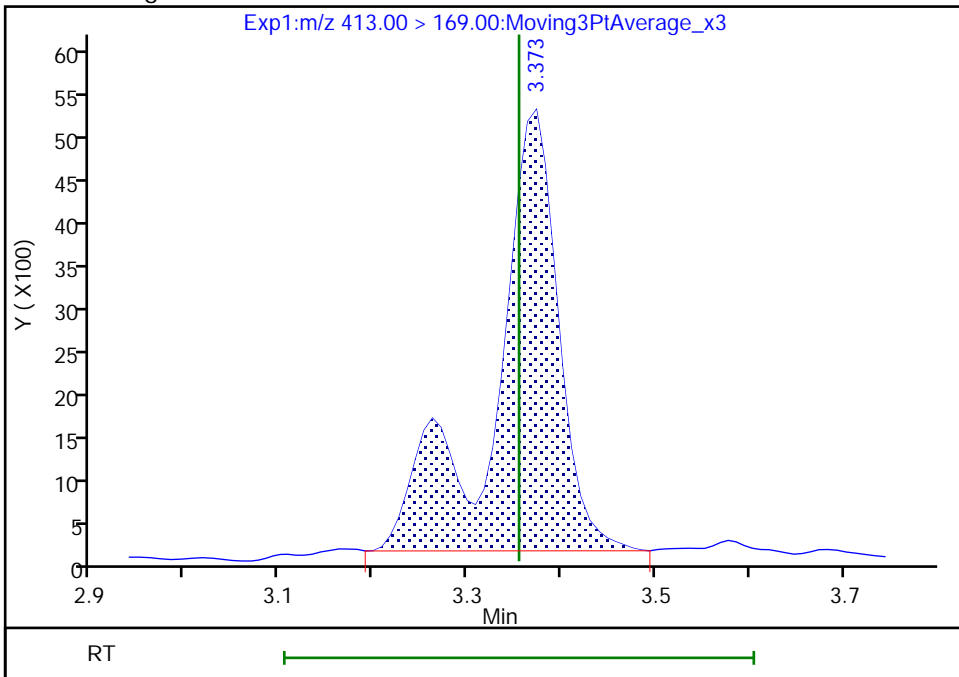
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.37  
Area: 24621  
Amount: 0.903928  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:40:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

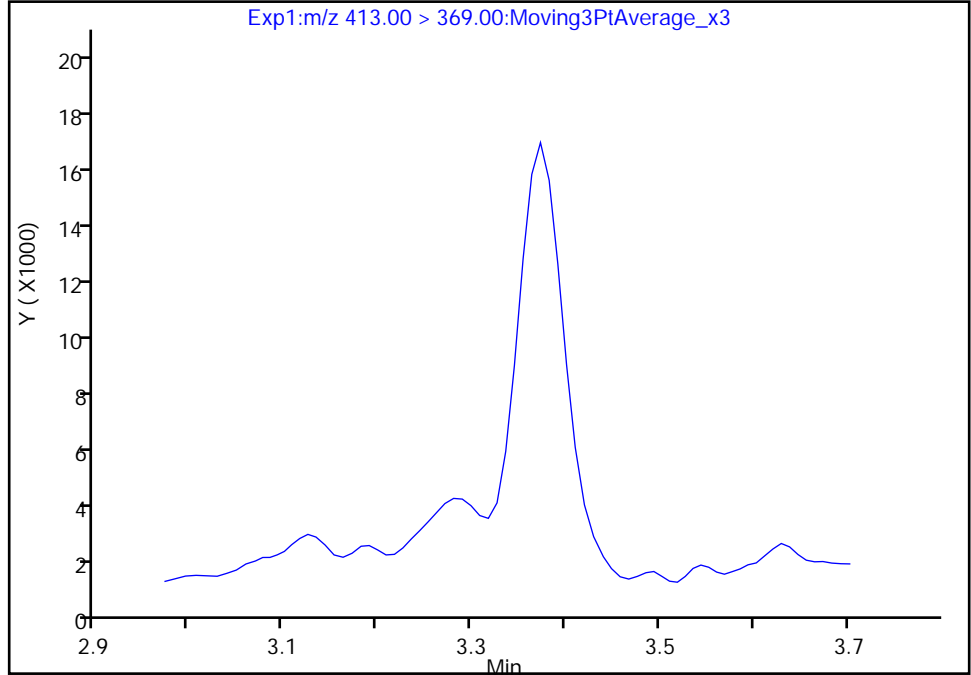
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

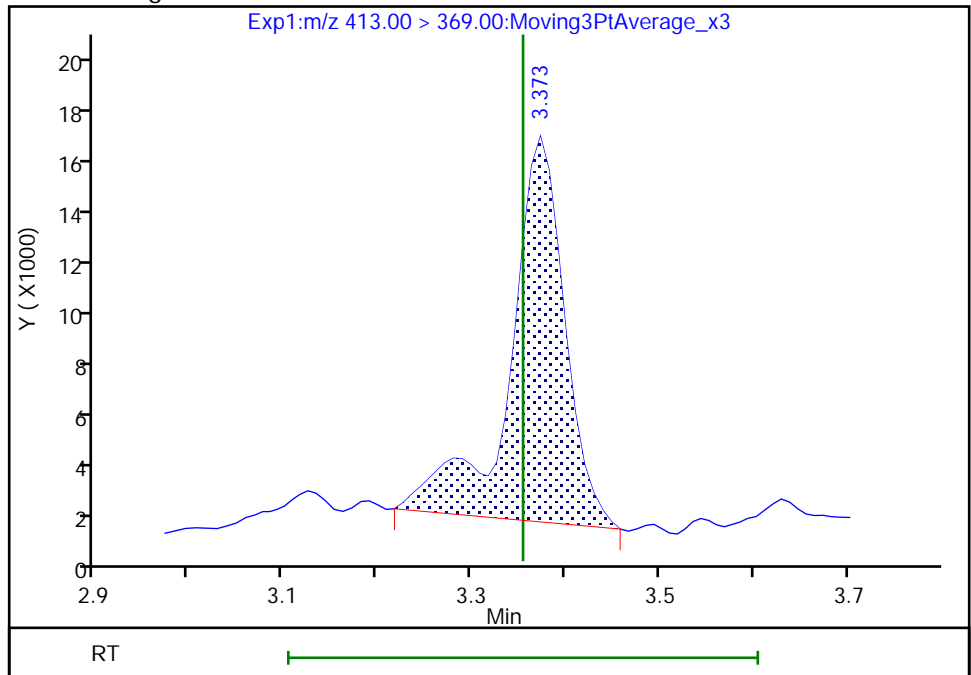
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.37  
Area: 57981  
Amount: 0.903928  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:40:49

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

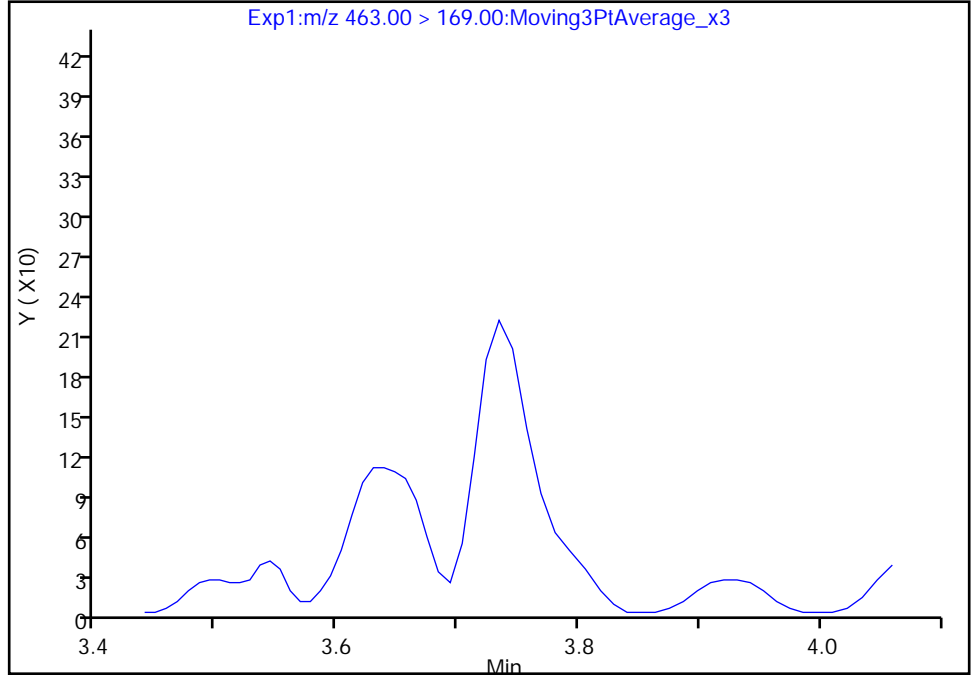
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Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

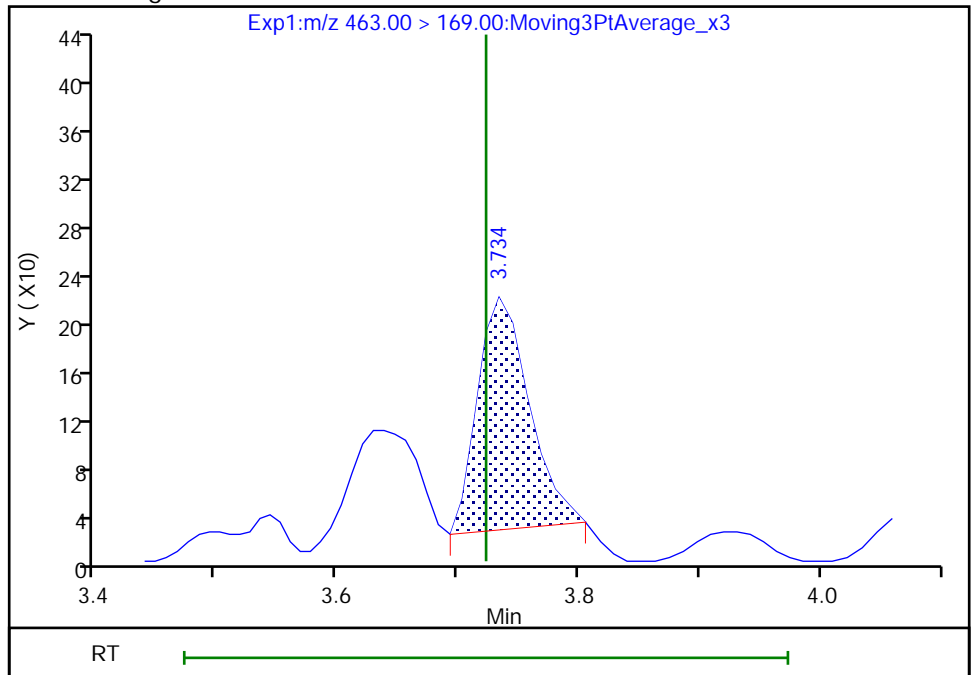
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.73  
Area: 562  
Amount: 0.089419  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:41:37

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

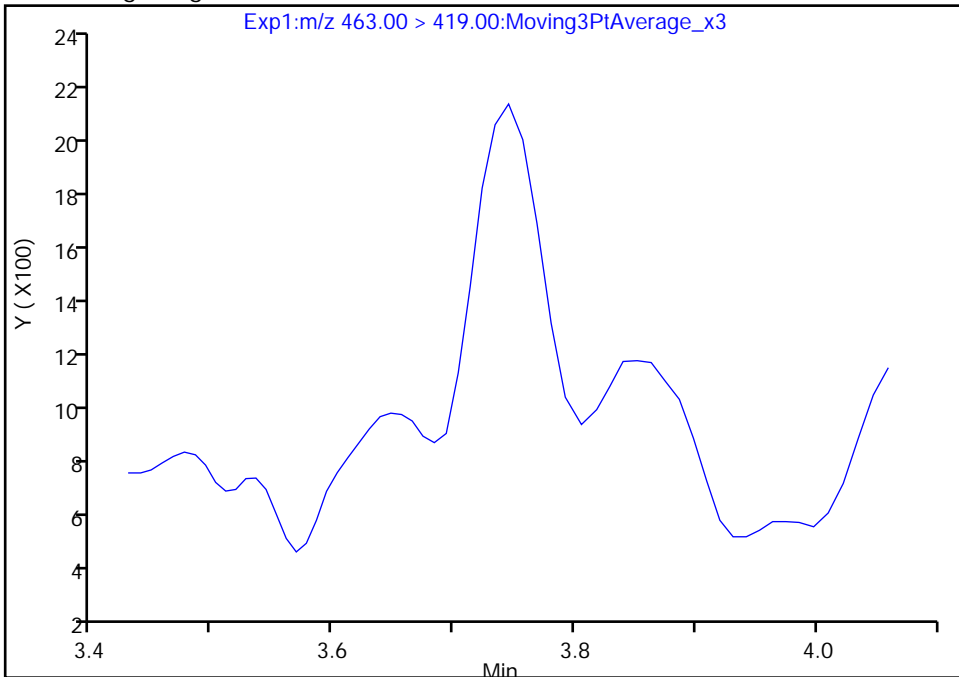
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

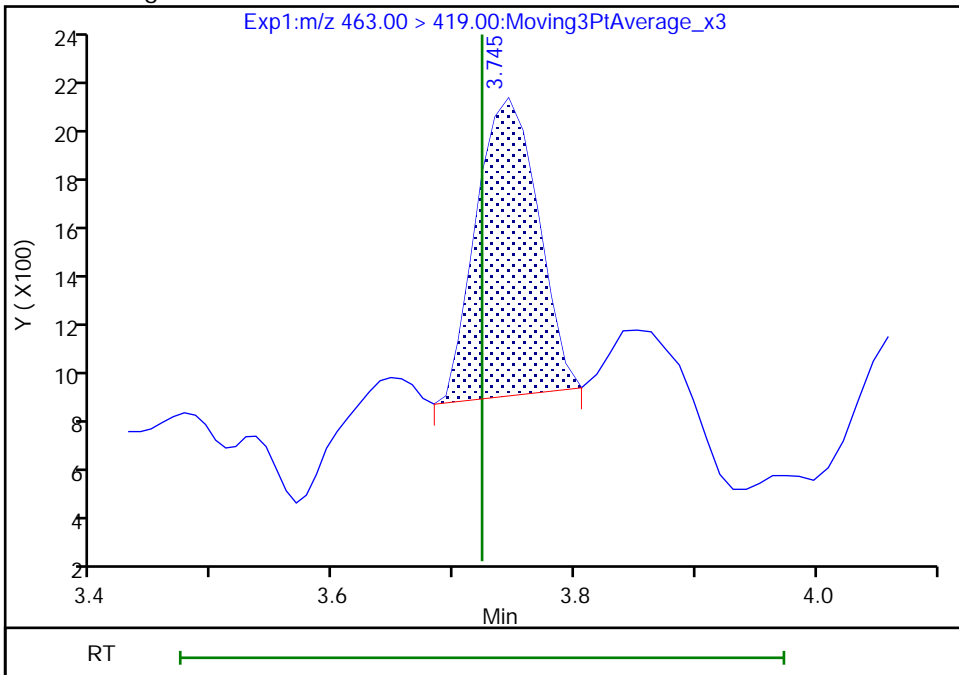
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.75  
Area: 4312  
Amount: 0.089419  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

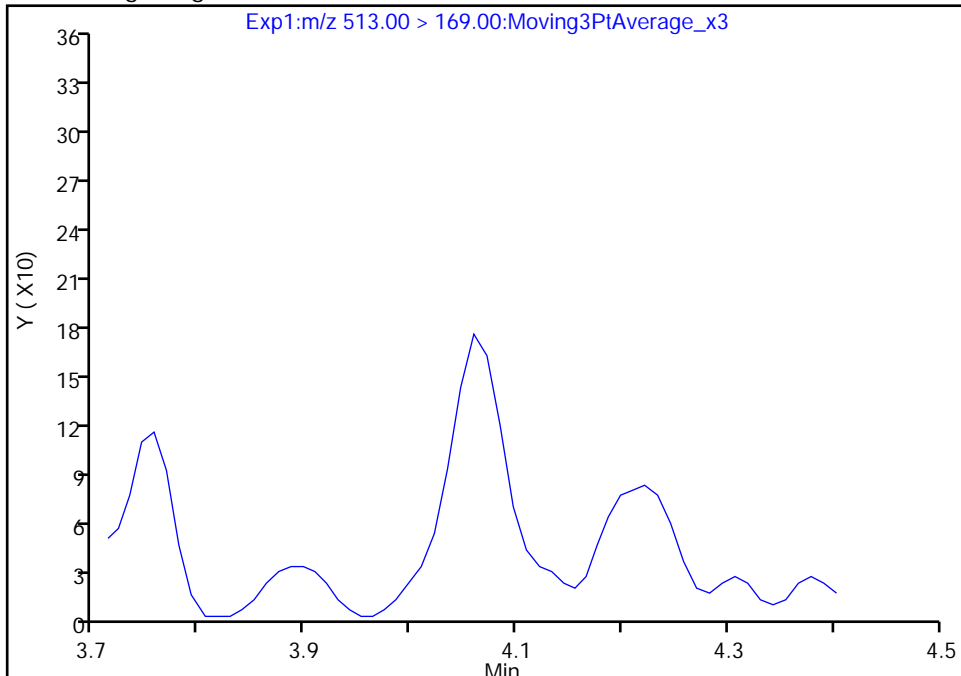
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Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

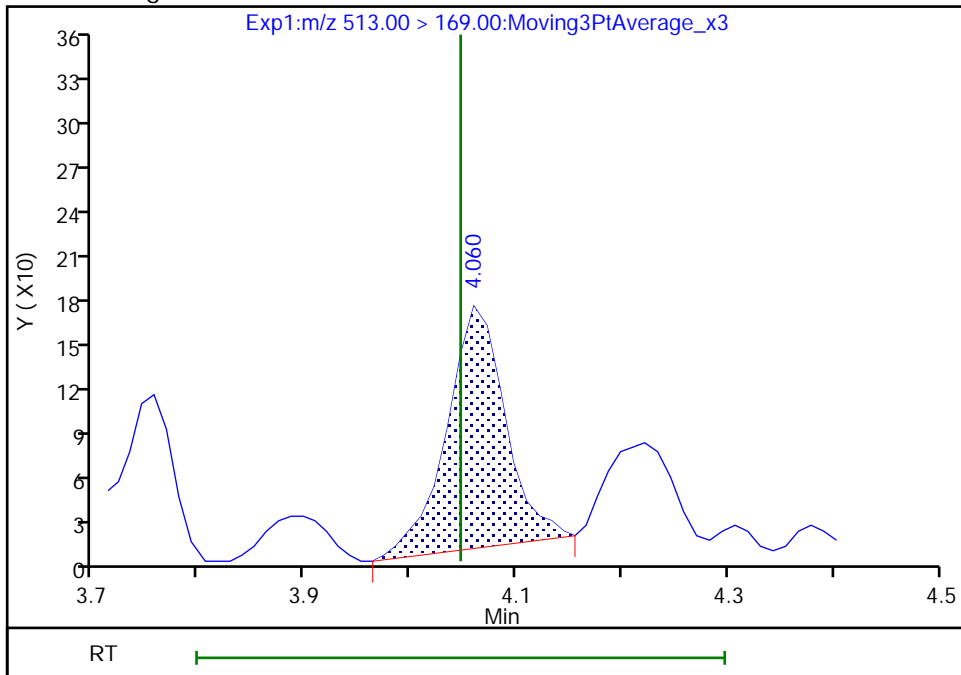
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.06  
Area: 622  
Amount: 0.078941  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:41:45  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

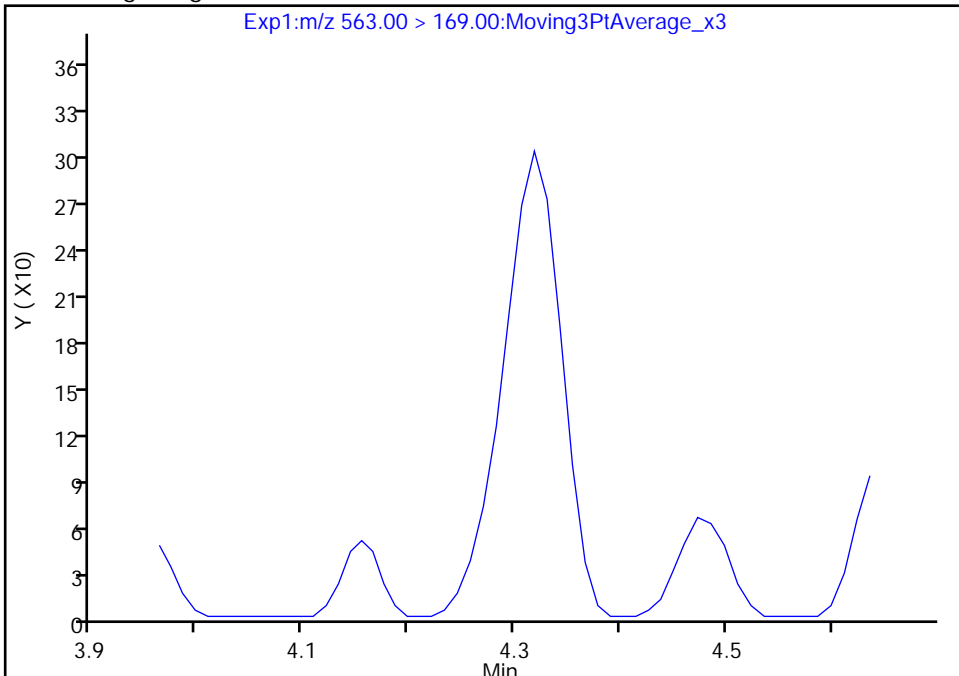
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Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

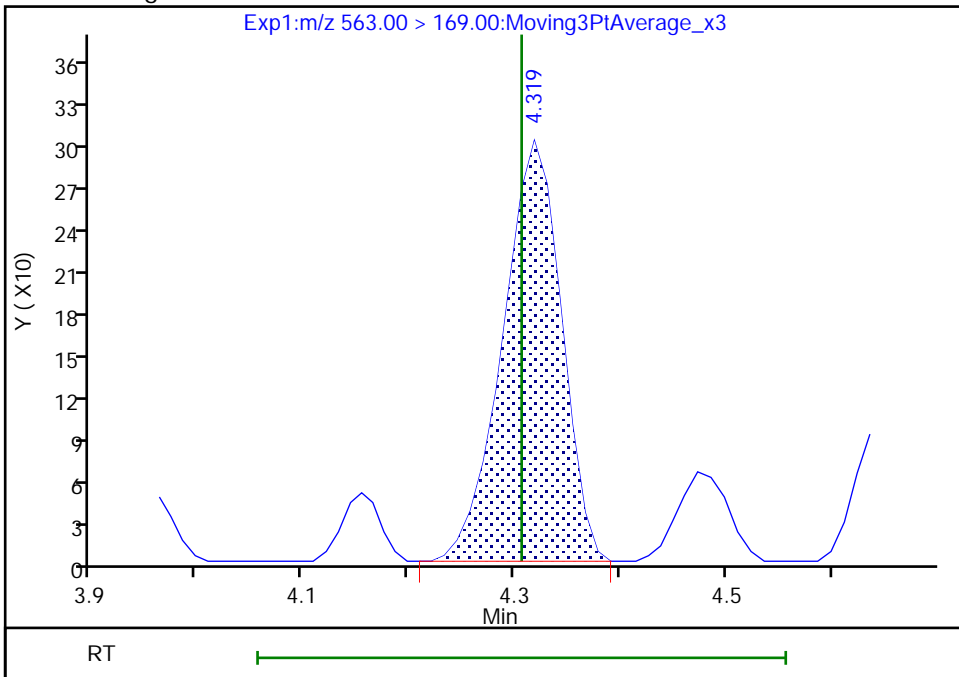
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 1164  
Amount: 0.176213  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:42:49  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

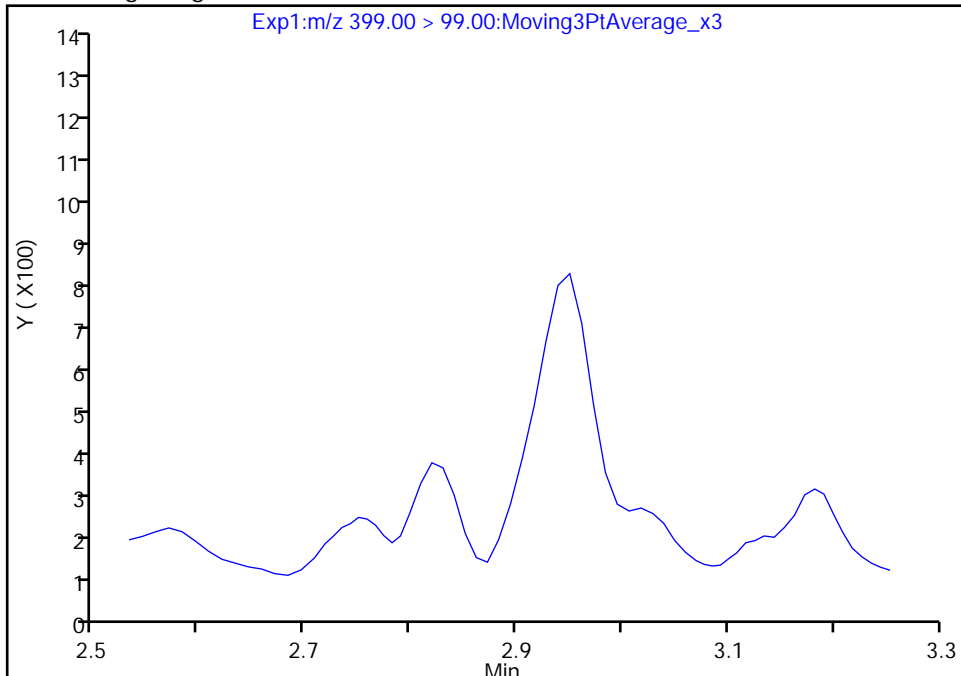
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

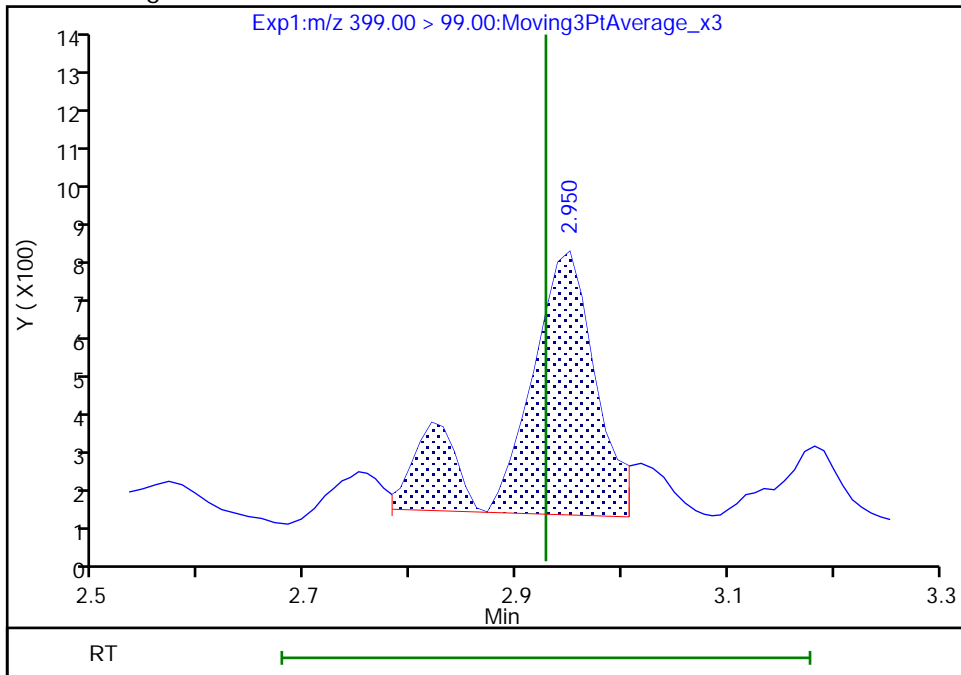
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.95  
Area: 3395  
Amount: 0.266780  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:40:22  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

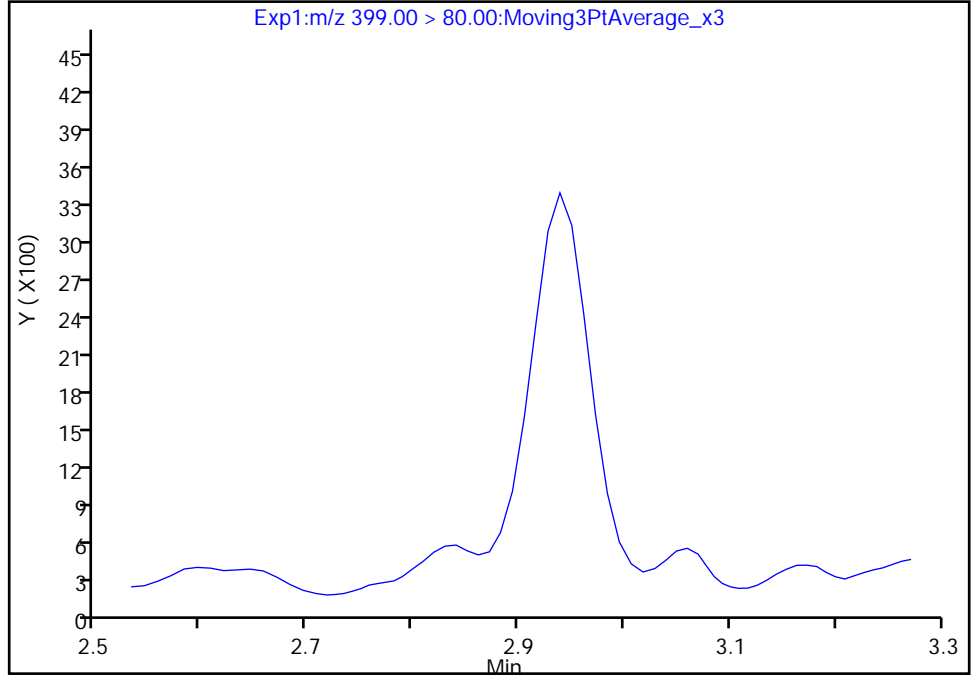
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

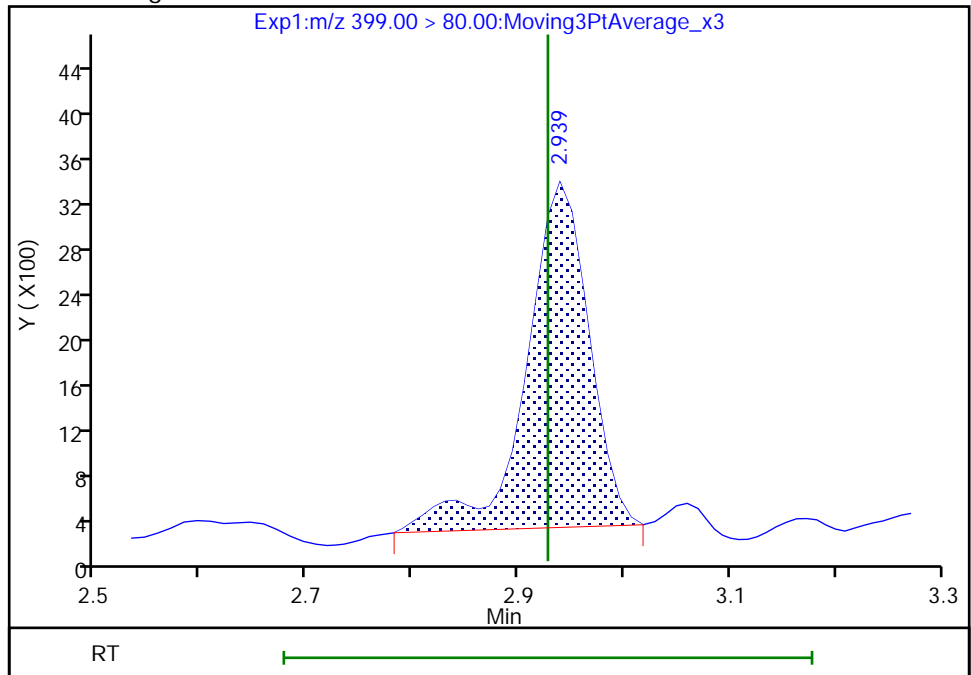
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 12673  
Amount: 0.266780  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:40:22

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Burlington

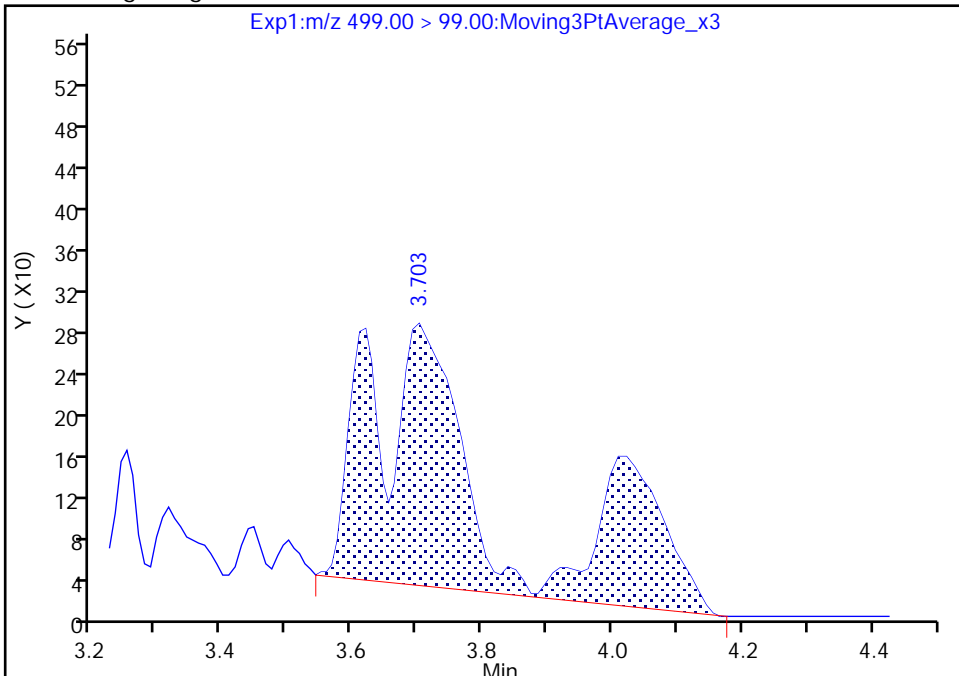
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

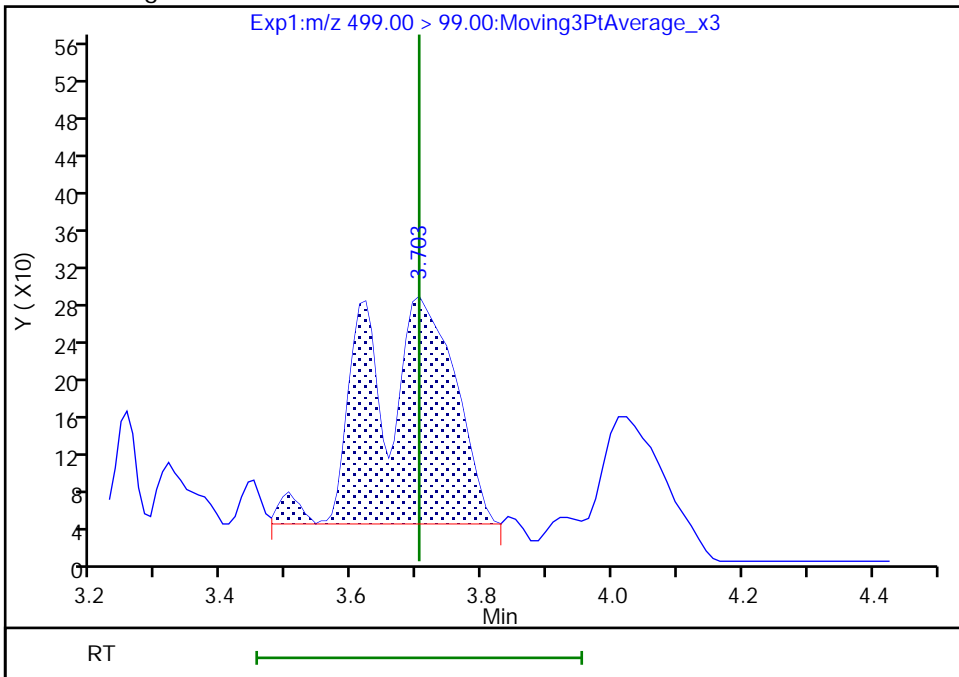
RT: 3.70  
Area: 3433  
Amount: 0.640195  
Amount Units: ng/ml

Processing Integration Results



RT: 3.70  
Area: 2231  
Amount: 0.592979  
Amount Units: ng/ml

Manual Integration Results



Reviewer: murrayjw, 12-Aug-2019 09:33:10  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

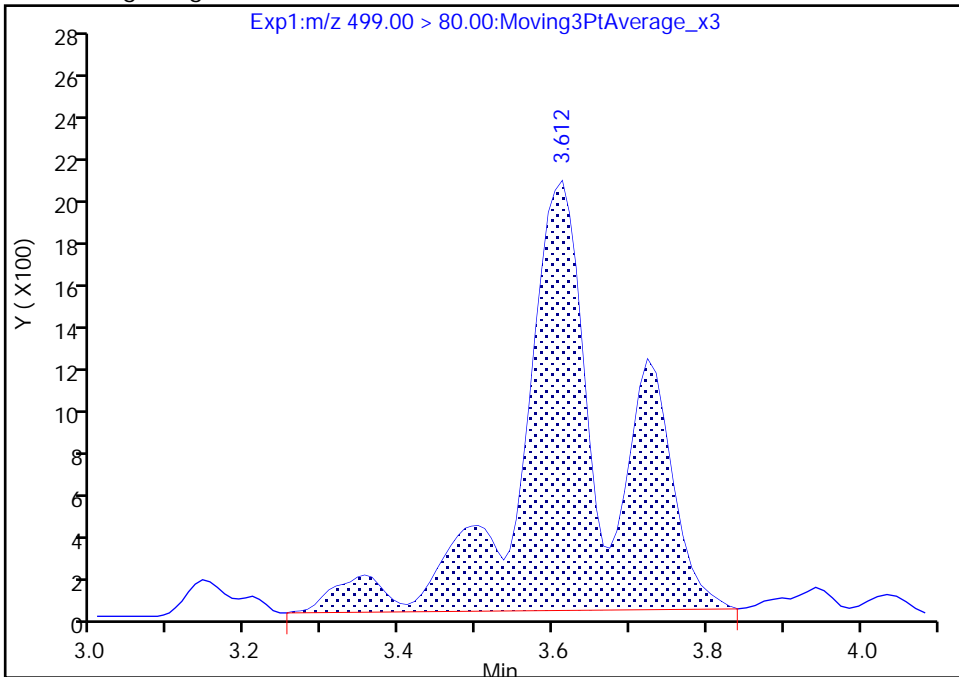
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

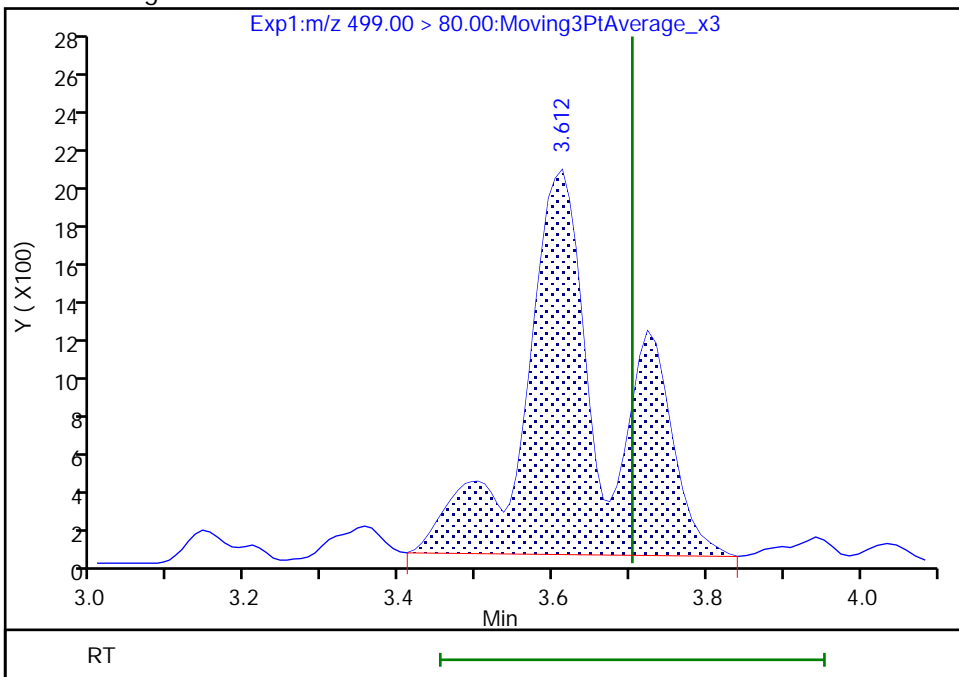
RT: 3.61  
Area: 16813  
Amount: 0.640195  
Amount Units: ng/ml

Processing Integration Results



RT: 3.61  
Area: 15573  
Amount: 0.592979  
Amount Units: ng/ml

Manual Integration Results



Reviewer: murrayjw, 12-Aug-2019 09:33:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

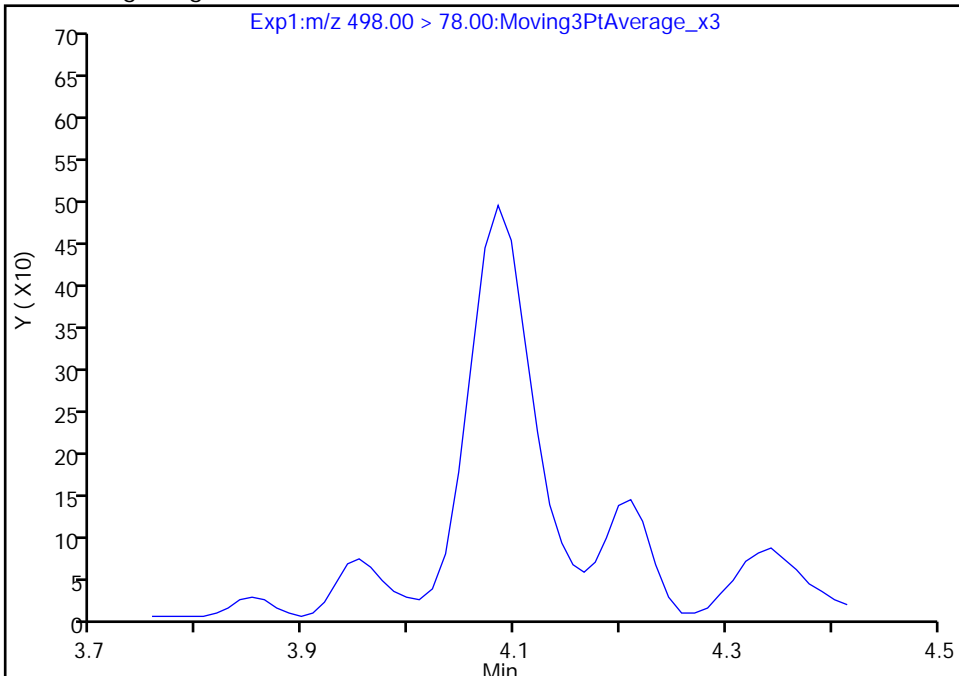
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

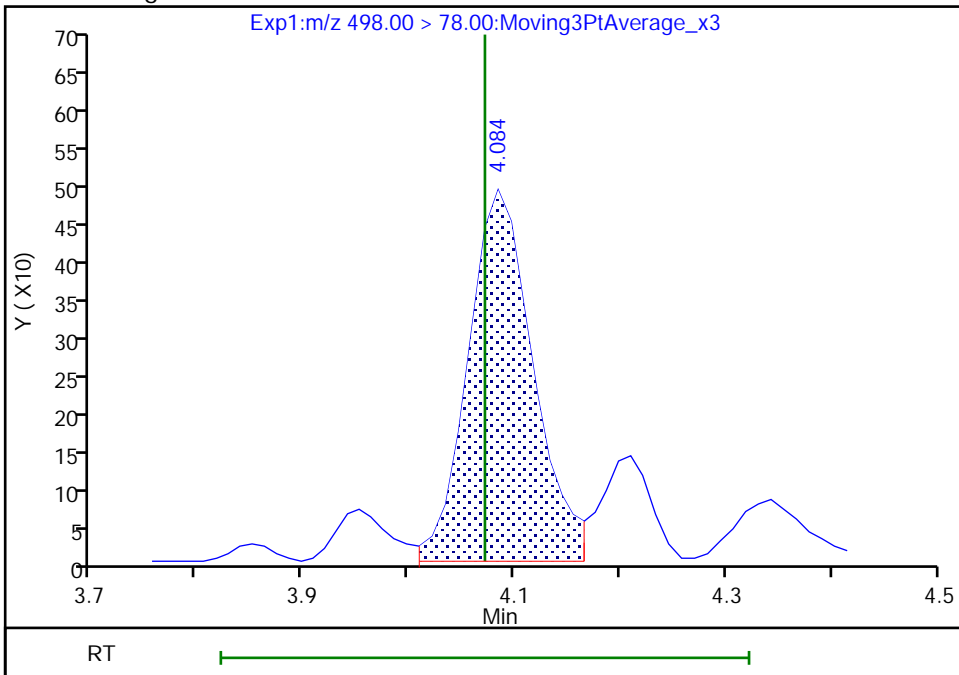
Not Detected  
Expected RT: 4.07

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 2097  
Amount: 0.066668  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:42:08  
Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Burlington

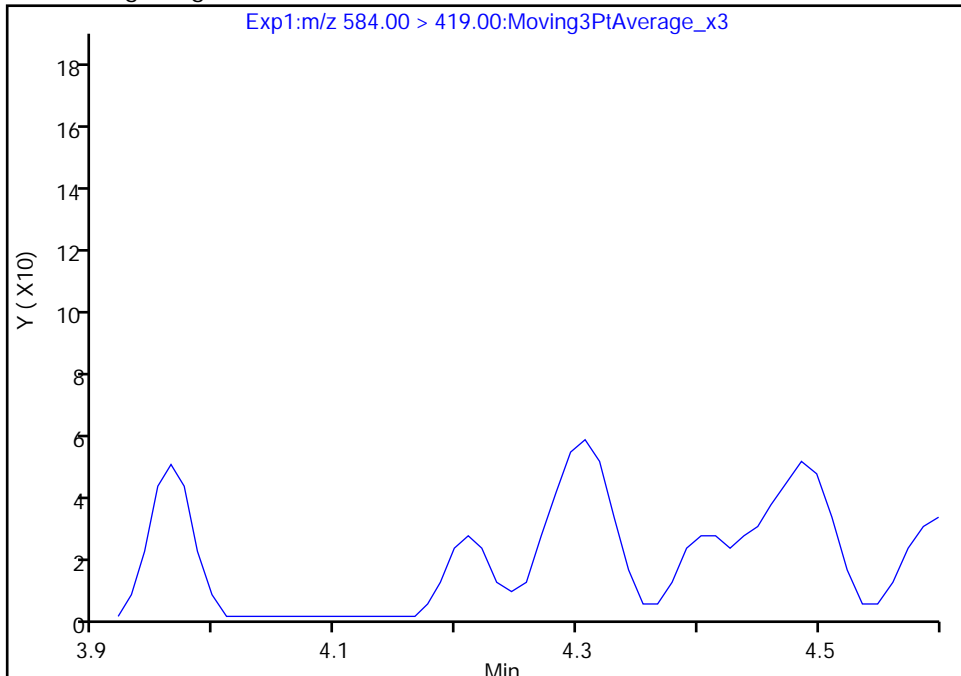
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E022.d  
Injection Date: 02-Aug-2019 06:38:15 Instrument ID: LC812  
Lims ID: 480-156213-F-19-A Lab Sample ID: 200-156213-19  
Client ID: 356023-MW7R  
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 22  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6

Signal: 1

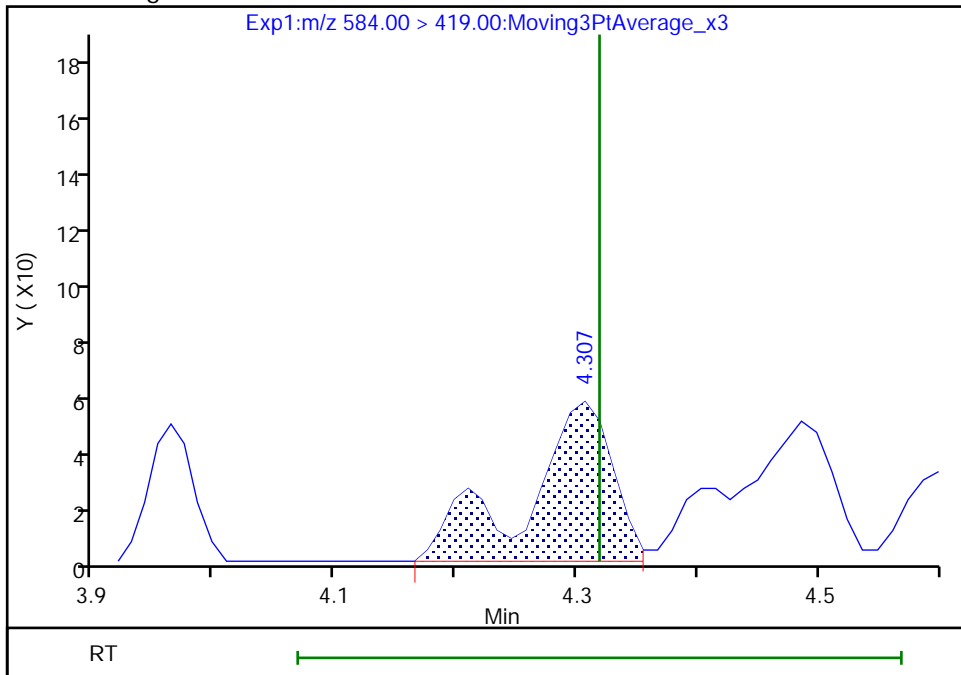
Not Detected  
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 279  
Amount: 0.095866  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 17:43:08  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1 Analy Batch No.: 145525

SDG No.: \_\_\_\_\_

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2019 10:54 Calibration End Date: 07/26/2019 11:34 Calibration ID: 42108

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-145525/17	SC072619A017.d
Level 2	IC 200-145525/18	SC072619A018.d
Level 3	IC 200-145525/19	SC072619A019.d
Level 4	ICIS 200-145525/20	SC072619A020.d
Level 5	IC 200-145525/21	SC072619A021.d
Level 6	IC 200-145525/22	SC072619A022.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	0.9094 0.9138	0.9459	0.8978	0.9272	0.9358	AveID		0.9217			1.9		35.0				
Perfluoropentanoic acid (PFPeA)	1.0173 0.9364	0.9766	0.9293	0.9801	0.9663	AveID		0.9677			3.3		35.0				
Perfluorobutanesulfonic acid (PFBS)	0.9648 0.9688	1.1109	0.9849	1.0446	1.0255	AveID		1.0166			5.5		35.0				
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	2.9530 2.1879	2.3604	2.1985	2.3690	2.2655	AveID		2.3891			12.0		50.0				
Perfluorohexanoic acid (PFHxA)	1.0845 0.9903	1.0695	0.9856	1.0315	1.0172	AveID		1.0298			3.9		35.0				
Perfluoropentanesulfonic acid	0.8896 0.8658	0.9130	0.8846	0.8805	0.9329	AveID		0.8944			2.7		50.0				
HFPO-DA	2.8147 2.5133	2.4508	2.5858	2.5574	2.3266	AveID		2.5414			6.4		35.0				
Perfluoroheptanoic acid (PFHpA)	1.0200 0.8633	0.9357	0.9332	0.9486	0.9191	AveID		0.9367			5.4		35.0				
Perfluorohexanesulfonic acid (PFHxS)	1.4427 1.2632	1.3893	1.2824	1.2794	1.2497	AveID		1.3178			6.0		35.0				
DONA	4.6355 4.4820	4.9631	4.7836	4.8404	4.8201	AveID		4.7541			3.6		50.0				
Perfluoroheptanesulfonic Acid (PFHpS)	1.1362 1.3098	1.1957	1.1689	1.1989	1.2180	AveID		1.2046			4.9		50.0				
6:2 FTS	1.6984 1.7033	1.8419	1.7021	1.7251	1.6195	AveID		1.7151			4.2		35.0				
Perfluorooctanoic acid (PFOA)	1.1316 1.0335	1.1790	1.0399	1.0630	1.0817	AveID		1.0881			5.2		35.0				
Perfluorooctanesulfonic acid (PFOS)	0.9611 0.9440	1.0104	0.9000	0.9323	0.9314	AveID		0.9465			3.9		35.0				
Perfluorononanoic acid (PFNA)	0.8913 0.9050	0.8998	0.9078	0.8736	0.9578	AveID		0.9059			3.1		35.0				

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

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1 Analy Batch No.: 145525

SDG No.: \_\_\_\_\_

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2019 10:54 Calibration End Date: 07/26/2019 11:34 Calibration ID: 42108

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.9478 2.1423	2.1955	2.2435	2.2261	2.2915	AveID		2.1744			5.6		50.0				
Perfluorononanesulfonic acid	0.8882 0.7995	0.8173	0.8740	0.8922	0.7959	AveID		0.8445			5.3		50.0				
Perfluorooctanesulfonamide (FOSA)	0.8811 0.9278	0.9436	0.8982	0.9123	0.9146	AveID		0.9129			2.4		35.0				
Perfluorodecanoic acid (PFDA)	1.0248 0.9493	1.1041	0.8447	0.9467	0.9394	AveID		0.9682			9.1		35.0				
8:2 FTS	1.3876 1.3021	1.5320	1.3277	1.3001	1.1710	AveID		1.3368			8.9		35.0				
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.7849 0.7554	0.7453	0.6999	0.7651	0.7896	AveID		0.7567			4.3		35.0				
Perfluorodecanesulfonic acid (PFDS)	0.6809 0.6645	0.6609	0.6235	0.6692	0.6773	AveID		0.6627			3.1		50.0				
Perfluoroundecanoic acid (PFUnA)	0.8941 0.7654	0.9029	1.0152	0.8006	0.7701	AveID		0.8581			11.4		35.0				
N-ethylperfluorooctanesulfonamidoacetic acid (NETFOSAA)	0.6574 0.6198	0.7043	0.6316	0.6250	0.6017	AveID		0.6400			5.7		35.0				
11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid	3.1928 3.1273	3.4518	3.4420	3.5202	3.1275	AveID		3.3103			5.4		50.0				
Perfluorododecanoic acid (PFDoA)	0.9754 1.0357	1.0297	1.0400	1.0211	1.0322	AveID		1.0224			2.3		35.0				
10:2 FTS	0.8041 0.9218	0.9163	0.8283	0.8189	0.7878	AveID		0.8462			6.9		50.0				
Perfluorododecanesulfonic acid (PFDoS)	0.3424 0.3209	0.3103	0.3021	0.3215	0.3083	AveID		0.3176			4.5		50.0				
Perfluorotridecanoic acid (PFTriA)	0.9090 0.8522	0.9700	0.9318	0.9743	0.8684	AveID		0.9176			5.5		50.0				
Perfluorotetradecanoic acid (PFTeA)	0.1457 0.1283	0.1355	0.1297	0.1273	0.1321	AveID		0.1331			5.1		35.0				
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.3139 0.9082	1.1320	1.0144	1.0126	0.9477	L2ID	0.3707	0.9451						0.9990		0.9900	
Perfluoro-n-octadecanoic acid (PFODA)	0.6914 0.7351	0.7389	0.7326	0.8282	0.7848	AveID		0.7518			6.4		50.0				
13C4 PFBA	0.8956 1.0143	0.8628	0.8670	0.8846	1.1296	Ave		0.9423			11.4		30.0				
13C5 PFPeA	0.8179 0.9438	0.8322	0.8064	0.8394	1.0709	Ave		0.8851			11.7		30.0				
13C3 PFBS	0.8149 0.9687	0.7958	0.7983	0.8128	1.0257	Ave		0.8694			11.6		30.0				

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

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1 Analy Batch No.: 145525

SDG No.: \_\_\_\_\_

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2019 10:54 Calibration End Date: 07/26/2019 11:34 Calibration ID: 42108

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
M2-4:2 FTS	0.0687 0.0984	0.0724	0.0797	0.0771	0.1084	Ave		0.0841			18.7		30.0				
13C2 PFHxA	0.8298 0.9375	0.8057	0.8129	0.8175	1.0712	Ave		0.8791			12.1		30.0				
13C3 HFPO-DA	0.0519 0.0603	0.0573	0.0493	0.0457	0.0739	Ave		0.0564			17.8		30.0				
13C4 PFHpA	0.7953 0.9340	0.8175	0.7708	0.8152	1.0337	Ave		0.8611			11.8		30.0				
18O2 PFHxS	0.4705 0.5535	0.4739	0.4686	0.4770	0.6115	Ave		0.5092			11.7		30.0				
M2-6:2 FTS	0.1010 0.1073	0.0951	0.1010	0.0990	0.1325	Ave		0.1060			12.8		30.0				
13C4 PFOA	0.8375 0.9510	0.8566	0.8485	0.8588	1.1043	Ave		0.9094			11.4		30.0				
13C4 PFOS	0.4127 0.4422	0.3958	0.3812	0.3874	0.5259	Ave		0.4242			12.8		30.0				
13C5 PFNA	0.7941 0.8785	0.7818	0.7551	0.7842	0.9837	Ave		0.8296			10.4		30.0				
13C8 FOSA	0.7045 0.7753	0.7317	0.7040	0.7170	0.9395	Ave		0.7620			11.9		30.0				
13C2 PFDA	0.6040 0.6502	0.5695	0.6619	0.6540	0.8427	Ave		0.6637			14.3		30.0				
M2-8:2 FTS	0.0910 0.0992	0.0881	0.0870	0.0942	0.1273	Ave		0.0978			15.4		30.0				
d3-NMeFOSAA	0.0821 0.0971	0.0778	0.0753	0.0774	0.0988	Ave		0.0848			12.4		30.0				
13C2 PFUnA	0.5899 0.6347	0.5656	0.5170	0.5749	0.7449	Ave		0.6045			13.0		30.0				
d5-NEtFOSAA	0.0874 0.0997	0.0898	0.0819	0.0896	0.1185	Ave		0.0945			13.9		30.0				
13C2 PFDoA	0.6337 0.6831	0.6099	0.5726	0.6033	0.8017	Ave		0.6507			12.7		30.0				
13C2 PFTeDA	0.8122 0.9809	0.8056	0.8040	0.8567	1.1165	Ave		0.8960			14.2		30.0				
13C2 PFHxDA	0.7789 0.8703	0.7664	0.7288	0.6889	0.9497	Ave		0.7972			12.1		30.0				

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

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1 Analy Batch No.: 145525

SDG No.: \_\_\_\_\_

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2019 10:54 Calibration End Date: 07/26/2019 11:34 Calibration ID: 42108

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-145525/17	SC072619A017.d
Level 2	IC 200-145525/18	SC072619A018.d
Level 3	IC 200-145525/19	SC072619A019.d
Level 4	ICIS 200-145525/20	SC072619A020.d
Level 5	IC 200-145525/21	SC072619A021.d
Level 6	IC 200-145525/22	SC072619A022.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	87772 16042972	181265	425099	1729812	4228614	1.00 200	2.00	5.00	20.0	50.0
Perfluoropentanoic acid (PFPeA)		AveID	89658 15297007	180493	409244	1735050	4139546	1.00 200	2.00	5.00	20.0	50.0
Perfluorobutanesulfonic acid (PFBS)		AveID	74900 14359485	173561	379584	1582927	3719539	0.884 177	1.77	4.42	17.7	44.2
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)		AveID	20409 3480073	35464	89347	359555	917729	0.934 187	1.87	4.67	18.7	46.7
Perfluorohexanoic acid (PFHxA)		AveID	96971 16070080	191379	437532	1778549	4359274	1.00 200	2.00	5.00	20.0	50.0
Perfluoropentanesulfonic acid		AveID	73276 13617110	151358	361774	1415812	3590630	0.938 188	1.88	4.69	18.8	46.9
HFPO-DA		AveID	15738 2624870	31195	69647	246656	687657	1.00 200	2.00	5.00	20.0	50.0
Perfluoroheptanoic acid (PFHpA)		AveID	87416 13958091	169875	392838	1631009	3800723	1.00 200	2.00	5.00	20.0	50.0
Perfluorohexanesulfonic acid (PFHxS)		AveID	66563 11013497	133064	298686	1171156	2781849	0.910 182	1.82	4.55	18.2	45.5
DONA		AveID	194212 32315396	410989	938009	3725551	9553035	0.942 188	1.88	4.71	18.8	47.1
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	48108 9543674	100067	231634	932564	2439583	0.952 190	1.90	4.76	19.0	47.6
6:2 FTS		AveID	17526 2997907	36889	88994	341591	813484	0.948 190	1.90	4.74	19.0	47.4
Perfluorooctanoic acid (PFOA)		AveID	102133 17012607	224294	481891	1925196	4778704	1.00 200	2.00	5.00	20.0	50.0
Perfluorooctanesulfonic acid (PFOS)		AveID	39667 6705110	82423	173858	706916	1818452	0.928 186	1.86	4.64	18.6	46.4
Perfluorononanoic acid (PFNA)		AveID	76274 13762455	156241	374348	1444962	3769472	1.00 200	2.00	5.00	20.0	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid		AveID	80739 15281982	179878	435253	1695158	4493418	0.932 186	1.86	4.66	18.6	46.6



FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1 Analy Batch No.: 145525

SDG No.: \_\_\_\_\_

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2019 10:54 Calibration End Date: 07/26/2019 11:34 Calibration ID: 42108

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorononanesulfonic acid		AveID	37925 5874380	68974	174659	699858	1607516	0.960 192	1.92	4.80	19.2	48.0
Perfluorooctanesulfonamide (FOSA)		AveID	66890 12449793	153333	345321	1379443	3437601	1.00 200	2.00	5.00	20.0	50.0
Perfluorodecanoic acid (PFDA)		AveID	66704 10684329	139639	305367	1305700	3167025	1.00 200	2.00	5.00	20.0	50.0
8:2 FTS		AveID	13032 2141277	28727	60411	247475	571112	0.958 192	1.92	4.79	19.2	47.9
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	6948 1269712	12870	28789	124854	312259	1.00 200	2.00	5.00	20.0	50.0
Perfluorodecanesulfonic acid (PFDS)		AveID	29194 4902732	56004	125116	527069	1373624	0.964 193	1.93	4.82	19.3	48.2
Perfluoroundecanoic acid (PFUnA)		AveID	56839 8408507	113426	286638	970744	2294835	1.00 200	2.00	5.00	20.0	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	6191 1069354	14049	28242	118045	285259	1.00 200	2.00	5.00	20.0	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid		AveID	133770 22547771	285835	674951	2709425	6198405	0.942 188	1.88	4.71	18.8	47.1
Perfluorododecanoic acid (PFDoA)		AveID	66612 12245212	139487	325214	1299068	3310627	1.00 200	2.00	5.00	20.0	50.0
10:2 FTS		AveID	7599 1525462	17290	37924	156858	386623	0.964 193	1.93	4.82	19.3	48.2
Perfluorododecanesulfonic acid (PFDoS)		AveID	14743 2377415	26406	60868	254267	627811	0.968 194	1.94	4.84	19.4	48.4
Perfluorotridecanoic acid (PFTriA)		AveID	62078 10075759	131396	291354	1239569	2785171	1.00 200	2.00	5.00	20.0	50.0
Perfluorotetradecanoic acid (PFTeA)		AveID	12755 2178886	24247	56948	230029	590253	1.00 200	2.00	5.00	20.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	110287 13681373	192689	403751	1471103	3600245	1.00 200	2.00	5.00	20.0	50.0
Perfluoro-n-octadecanoic acid (PFODA)		AveID	58033 11072789	125768	291577	1203266	2981594	1.00 200	2.00	5.00	20.0	50.0
13C4 PFBA	13PF OA	Ave	4825626 4388965	4790602	4735112	4664130	4518898	50.0 50.0	50.0	50.0	50.0	50.0
13C5 PFPeA	13PF OA	Ave	4406691 4083939	4620281	4403817	4425810	4283995	50.0 50.0	50.0	50.0	50.0	50.0
13C3 PFBS	13PF OA	Ave	4083540 3898309	4109072	4054587	3985512	3815956	46.5 46.5	46.5	46.5	46.5	46.5
M2-4:2 FTS	13PF OA	Ave	345569 397647	375615	406391	379441	405087	46.7 46.7	46.7	46.7	46.7	46.7
13C2 PFHxA	13PF OA	Ave	4470781 4056783	4473437	4439363	4310528	4285397	50.0 50.0	50.0	50.0	50.0	50.0

FORM VI  
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1 Analy Batch No.: 145525

SDG No.: \_\_\_\_\_

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/26/2019 10:54 Calibration End Date: 07/26/2019 11:34 Calibration ID: 42108

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
13C3 HFPO-DA	13PF OA	Ave	279571 261102	318213	269344	241116	295558	50.0 50.0	50.0	50.0	50.0	50.0
13C4 PFHpA	13PF OA	Ave	4285194 4041886	4538861	4209662	4298357	4135183	50.0 50.0	50.0	50.0	50.0	50.0
18O2 PFHxS	13PF OA	Ave	2398226 2265919	2489096	2421176	2378974	2314098	47.3 47.3	47.3	47.3	47.3	47.3
M2-6:2 FTS	13PF OA	Ave	517038 440938	501736	523962	496068	503377	47.5 47.5	47.5	47.5	47.5	47.5
13C4 PFOA	13PF OA	Ave	4512614 4115123	4756035	4634073	4527918	4417613	50.0 50.0	50.0	50.0	50.0	50.0
13C4 PFOS	13PF OA	Ave	2125983 1829286	2100981	1990042	1952787	2011380	47.8 47.8	47.8	47.8	47.8	47.8
13C5 PFNA	13PF OA	Ave	4278714 3801723	4340953	4123753	4134912	3935423	50.0 50.0	50.0	50.0	50.0	50.0
13C8 FOSA	13PF OA	Ave	3795798 3354736	4062610	3844495	3780239	3758489	50.0 50.0	50.0	50.0	50.0	50.0
13C2 PFDA	13PF OA	Ave	3254332 2813650	3161787	3614917	3448085	3371154	50.0 50.0	50.0	50.0	50.0	50.0
M2-8:2 FTS	13PF OA	Ave	469572 411129	468782	454990	475878	487711	47.9 47.9	47.9	47.9	47.9	47.9
d3-NMeFOSAA	13PF OA	Ave	442613 420217	431715	411329	407992	395443	50.0 50.0	50.0	50.0	50.0	50.0
13C2 PFUnA	13PF OA	Ave	3178652 2746310	3140582	2823529	3031155	2979973	50.0 50.0	50.0	50.0	50.0	50.0
d5-NEtFOSAA	13PF OA	Ave	470844 431348	498703	447183	472168	474055	50.0 50.0	50.0	50.0	50.0	50.0
13C2 PFDoA	13PF OA	Ave	3414650 2955795	3386559	3126922	3180715	3207210	50.0 50.0	50.0	50.0	50.0	50.0
13C2 PFTeDA	13PF OA	Ave	4376430 4244420	4473081	4390949	4516809	4466722	50.0 50.0	50.0	50.0	50.0	50.0
13C2 PFHxDA	13PF OA	Ave	4196934 3765979	4255458	3980161	3632044	3799121	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A017.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 26-Jul-2019 10:54:13 ALS Bottle#: 3 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC1  
 Misc. Info.: 200-0036970-017 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3

Method: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 29-Jul-2019 17:48:40 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d

Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0306

First Level Reviewer: chirgwinb Date: 26-Jul-2019 13:24:51

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.754	1.754	0.0	1.000	87772	0.9867		98.7	7.6	
D 1 13C4 PFBA										
217.00 > 172.00	1.754	1.754	0.0	0.510	4825626	47.5		95.0	10610	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.183	2.183	0.0	1.000	89658	1.05		105	4.2	
D 3 13C5 PFPeA										
267.90 > 223.00	2.183	2.183	0.0	0.635	4406691	46.2		92.4	6801	
D 47 13C3 PFBS										
301.90 > 80.00	2.211	2.211	0.0	0.643	4083540	43.6		93.7	802550	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.225	2.211	0.014	1.006	74900	0.8390	Target=1.98	94.9	202	
298.90 > 99.00	2.211	2.211	0.0	1.000	36635		2.04(0.99-2.97)	94.9	28.7	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.583	2.583	0.0	1.000	20409	1.15		124	174	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.583	2.583	0.0	0.751	345569	38.1		81.6	296	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.633	2.633	0.0	1.000	96971	1.05	Target=12.51	105	25.6	
313.00 > 119.00	2.633	2.633	0.0	1.000	8530		11.37(6.25-18.76)	105	13.4	
D 7 13C2 PFHxA										
315.00 > 270.00	2.633	2.633	0.0	0.765	4470781	47.2		94.4	9971	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.646	2.646	0.0	1.197	73276	0.9329	Target=2.77	99.5	279	
349.00 > 99.00	2.646	2.646	0.0	1.197	27408		2.67(1.38-4.15)	99.5	44.5	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.774	2.766	0.008	1.000	15738	1.11		111	4.7	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.774	2.766	0.008	0.806	279571	46.0		92.0	1772	
D 11 18O2 PFHxS										
403.00 > 84.00	3.070	3.059	0.011	0.892	2398226	43.7		92.4	20582	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.070	3.059	0.011	1.000	66563	1.00	Target=3.37	109	123	
399.00 > 99.00	3.070	3.059	0.011	1.000	20664		3.22(1.68-5.05)	109	19.2	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.070	3.059	0.011	1.000	87416	1.09	Target=3.74	109	9.9	
363.00 > 169.00	3.070	3.059	0.011	1.000	23092		3.79(1.87-5.62)	109	88.2	
D 9 13C4 PFHpA										
367.00 > 322.00	3.070	3.059	0.011	0.892	4285194	46.2		92.4	15573	
77 DONA										
377.00 > 251.00	3.108	3.108	0.0	0.830	194212	0.9185	Target=2.75	97.5	309	
377.00 > 85.00	3.108	3.108	0.0	0.830	69114		2.81(1.37-4.12)	97.5	106	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.419	0.011	0.916	48108	0.8980	Target=4.99	94.3	195	
449.00 > 99.00	3.430	3.419	0.011	0.916	9015		5.34(2.50-7.49)	94.3	34.2	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.430	3.429	0.001	1.000	17526	0.9388		99.0	175	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.429	0.001	0.997	517038	45.3		95.3	1551	
* 62 13C2 PFOA										
415.00 > 370.00	3.440	3.439	0.001		5388080	50.0			17334	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.440	3.439	0.001	1.000	102133	1.04	Target=2.72	104	13.1	
413.00 > 169.00	3.440	3.439	0.001	1.000	38554		2.65(1.36-4.08)	104	100	
D 14 13C4 PFOA										
417.00 > 372.00	3.440	3.439	0.001	1.000	4512614	46.0		92.1	22159	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.745	3.735	0.010	1.000	39667	0.9423	Target=4.21	102	238	
499.00 > 99.00	3.745	3.735	0.010	1.000	10670		3.72(2.10-6.31)	102	29.0	
D 18 13C4 PFOS										
503.00 > 80.00	3.745	3.735	0.010	1.089	2125983	46.5		97.3	8122	
D 19 13C5 PFNA										
468.00 > 423.00	3.768	3.758	0.010	1.095	4278714	47.9		95.7	15251	
20 Perfluorononanoic acid										
463.00 > 419.00	3.768	3.758	0.010	1.000	76274	0.9839	Target=8.52	98.4	15.7	
463.00 > 169.00	3.768	3.758	0.010	1.000	8784		8.68(4.26-12.79)	98.4	99.0	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.898	3.899	-0.001	1.041	80739	0.8348		89.6	250	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.022	4.024	-0.002	1.074	37925	1.01	Target=2.52	105	447	
549.00 > 99.00	4.022	4.024	-0.002	1.074	11666		3.25(1.26-3.78)	105	18.8	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.047	4.049	-0.002	1.000	66890	0.9651		96.5	354	
D 21 13C8 FOSA										
506.00 > 78.00	4.047	4.049	-0.002	1.176	2795798	46.2		92.5	5204	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.059	4.049	0.010	1.000	66704	1.06	Target=9.67	106	4.8	
513.00 > 169.00	4.059	4.049	0.010	1.000	6841		9.75(4.83-14.50)	106	16.4	
D 23 13C2 PFDA										
515.00 > 470.00	4.059	4.049	0.010	1.180	3254332	45.5		91.0	8459	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.072	4.061	0.011	1.000	13032	0.99		104	153	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.072	4.061	0.011	1.184	469572	44.6		93.0	1504	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.187	4.189	-0.002	0.997	6948	1.04		104	12.9	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.198	4.189	0.009	1.220	442613	48.5		96.9	3126	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.283	4.284	-0.001	1.144	29194	0.99	Target=2.60	103	288	
599.00 > 99.00	4.283	4.284	-0.001	1.144	10824		2.70(1.30-3.90)	103	24.9	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.308	0.011	1.255	3178652	48.8		97.6	12412	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.308	0.011	1.000	56839	1.04	Target=8.30	104	14.9	
563.00 > 169.00	4.319	4.308	0.011	1.000	6657		8.54(4.15-12.45)	104	41.9	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.331	4.320	0.011	1.259	470844	46.3		92.5	1441	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.331	4.332	-0.001	1.000	6191	1.03		103	44.1	M
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.415	4.404	0.011	1.179	133770	0.9086		96.5	1363	
D 36 13C2 PFDaA										
615.00 > 570.00	4.549	4.550	-0.001	1.322	3414650	48.7		97.4	7432	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.561	4.550	0.011	1.003	66612	0.9541	Target=7.78	95.4	5.6	
613.00 > 169.00	4.561	4.550	0.011	1.003	8130		8.19(3.89-11.67)	95.4	66.1	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.574	4.575	-0.001	1.123	7599	0.9160		95.0	79.3	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.740	4.730	0.010	1.266	14743	1.04	Target=0.49	108	56.3	
699.00 > 99.00	4.740	4.730	0.010	1.266	27336		0.54(0.25-0.74)	108	195	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.778	4.778	0.0	1.050	62078	0.99	Target=5.37	99.1	4.8	
663.00 > 169.00	4.778	4.778	0.0	1.050	10897		5.70(2.68-8.05)	99.1	59.8	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.022	5.013	0.009	1.000	12755	1.09	Target=1.00	109	50.0	
713.00 > 219.00	5.012	5.013	-0.001	0.998	12254		1.04(0.50-1.50)	109	95.4	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.022	5.013	0.009	1.460	4376430	45.3		90.7	9837	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.587	5.583	0.004	1.624	4196934	48.9		97.7	13024	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.592	5.583	0.009	1.001	110287	1.00	Target=5.39	99.8	5.3	
813.00 > 169.00	5.597	5.583	0.013	1.002	19927		5.53(2.70-8.09)	99.8	142	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	6.221	6.207	0.014	1.114	58033	0.9196	Target=5.46	92.0	12.2	
913.00 > 169.00	6.221	6.207	0.014	1.114	10818		5.36(2.73-8.19)	92.0	119	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

LCPFAS32-L1\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A017.d

Injection Date: 26-Jul-2019 10:54:13

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 17

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

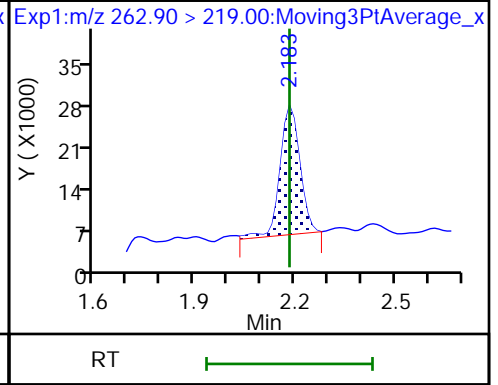
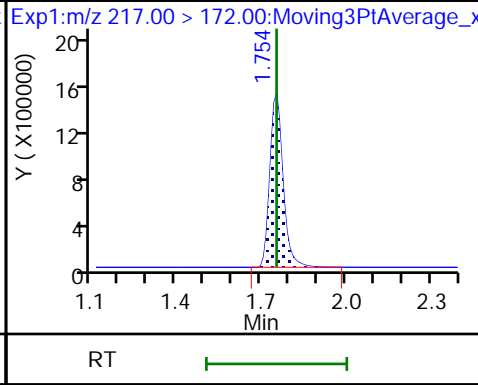
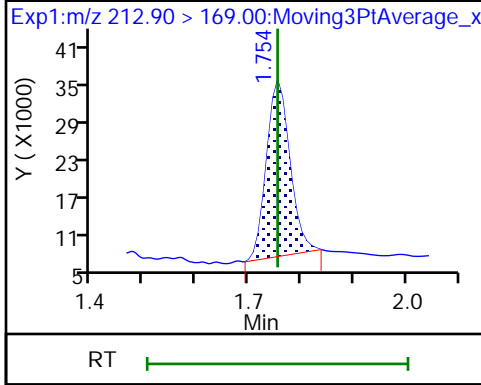
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

2 Perfluorobutanoic acid

D 1 13C4 PFBA

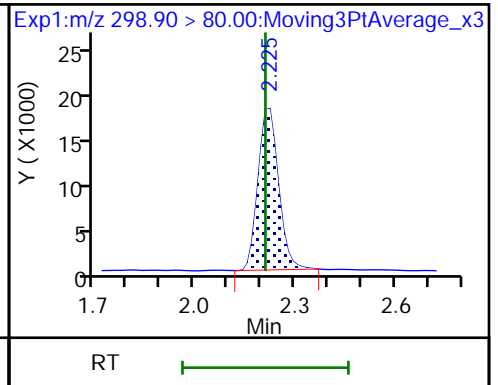
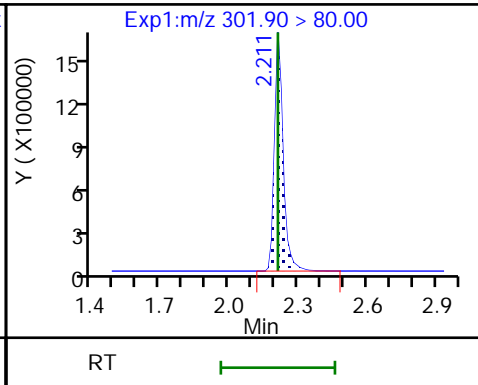
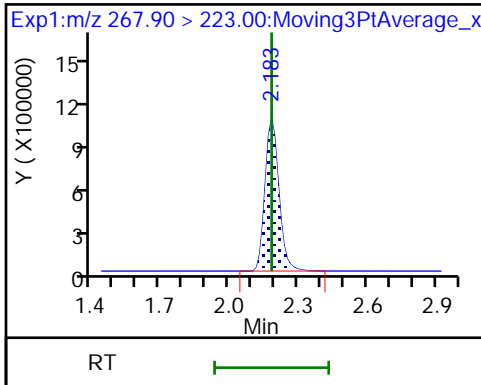
4 Perfluoropentanoic acid



D 3 13C5 PFPeA

D 47 13C3 PFBS

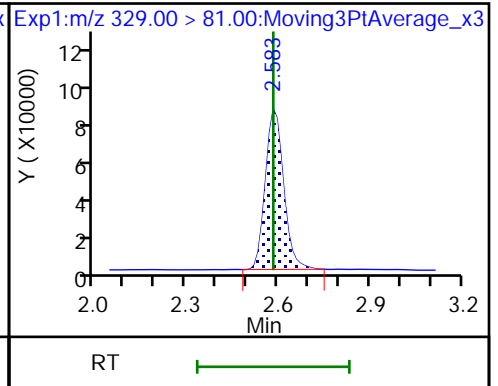
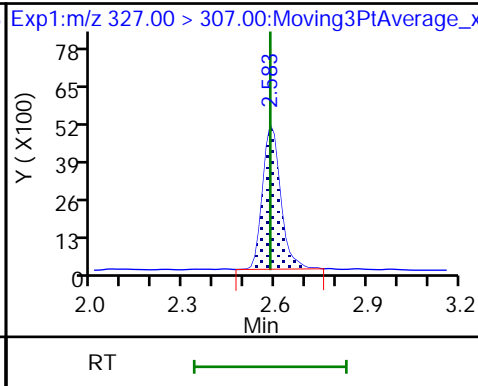
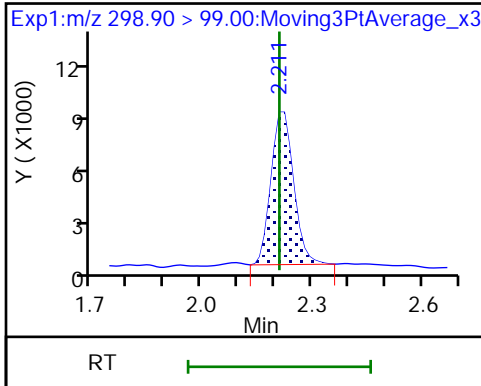
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfonate

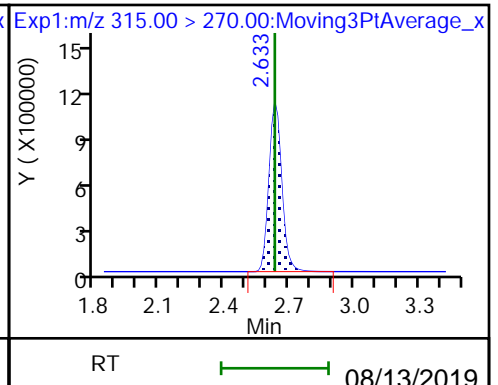
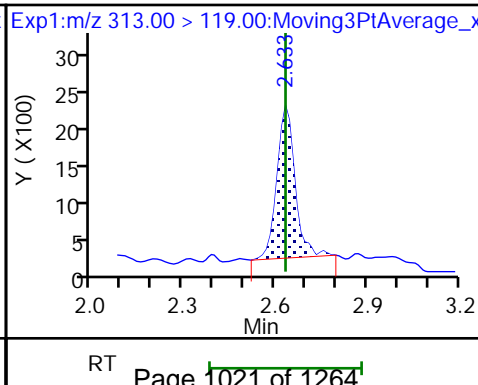
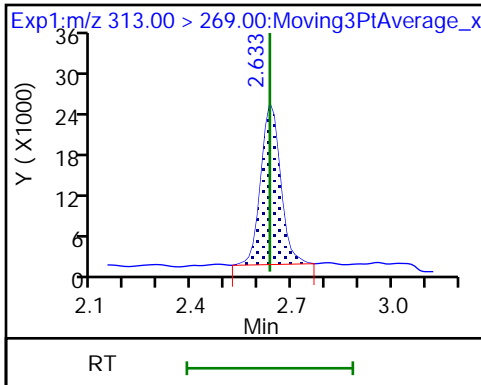
D 60 M2-4:2 FTS

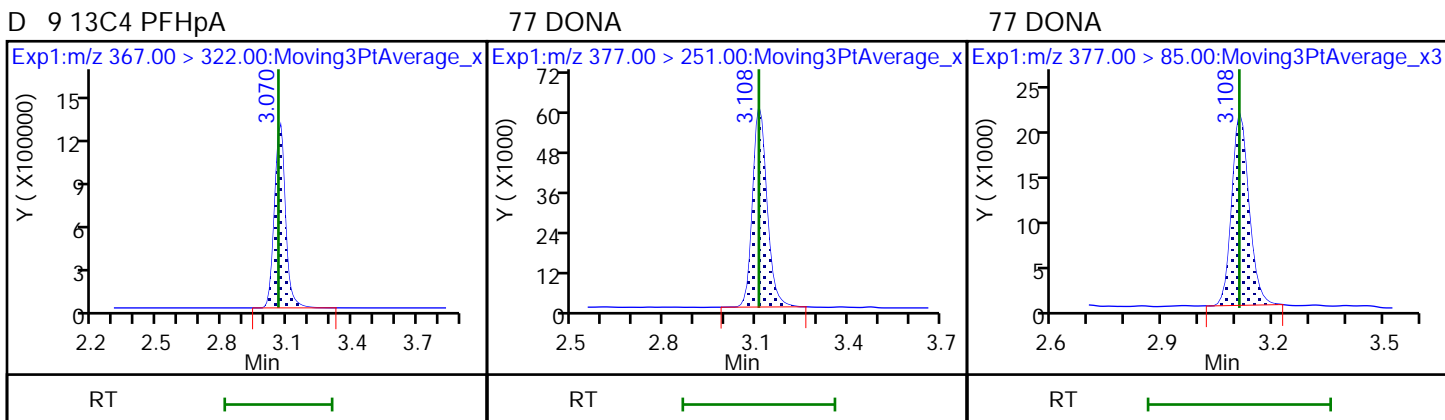
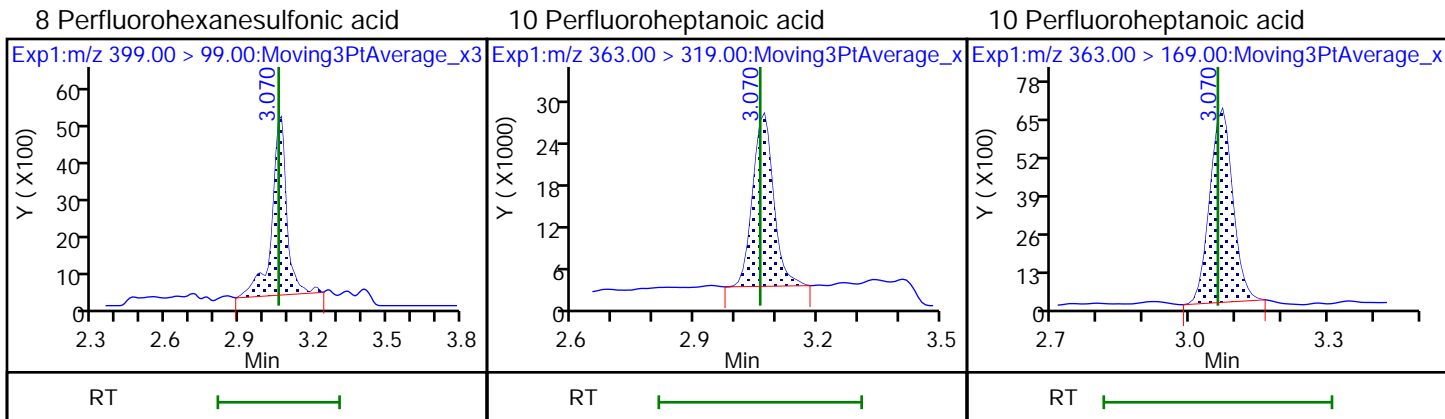
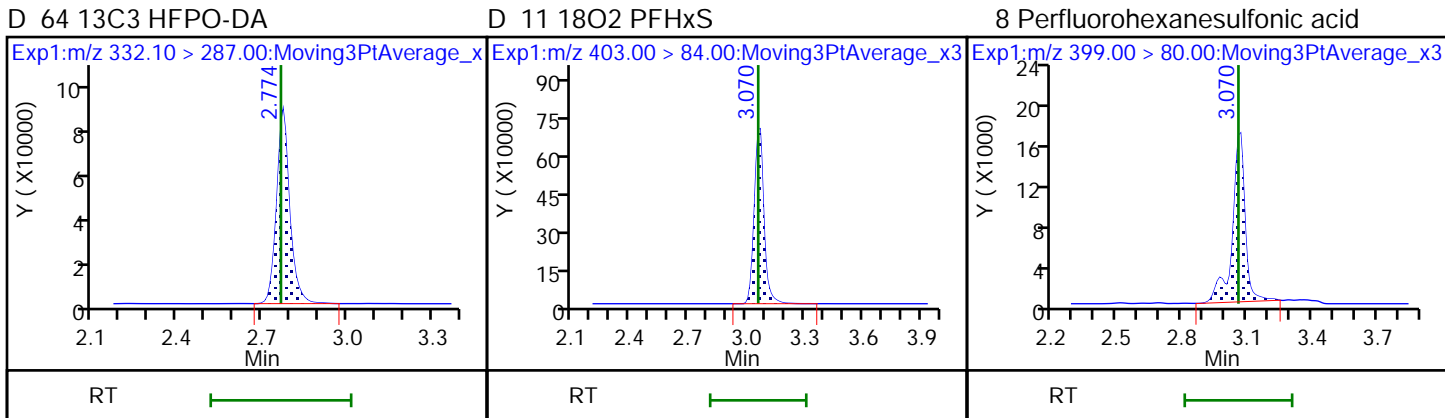
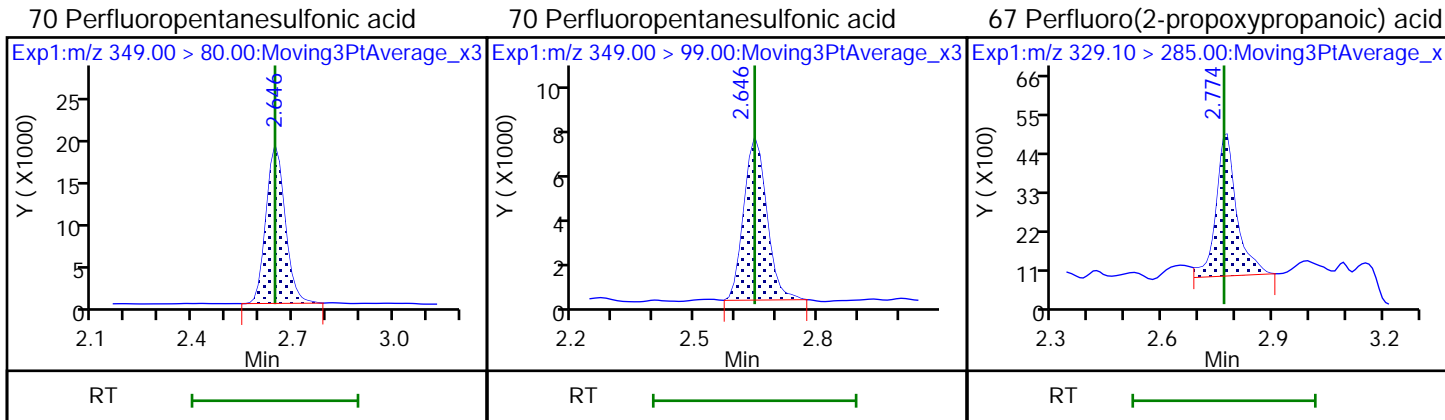


6 Perfluorohexanoic acid

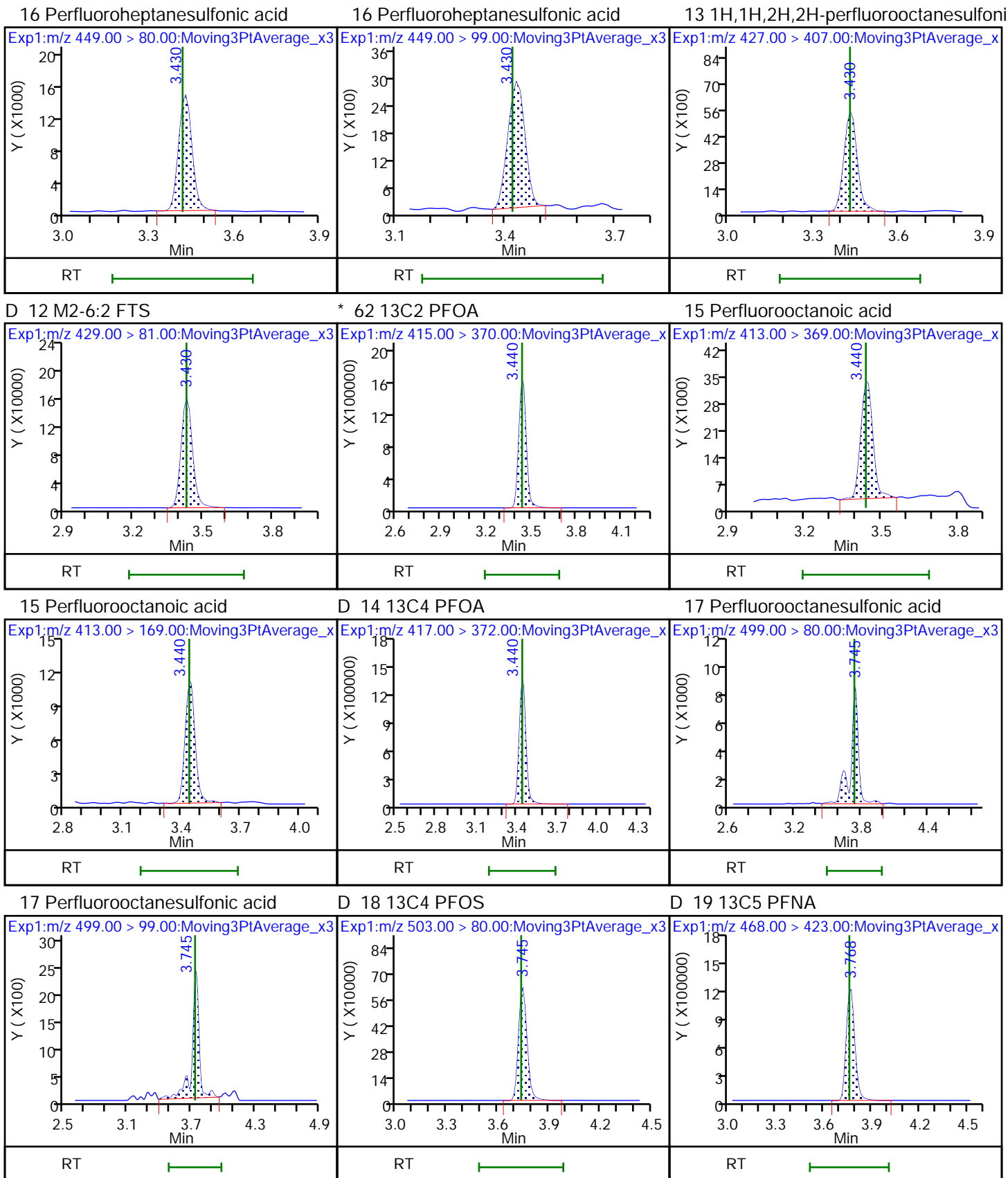
6 Perfluorohexanoic acid

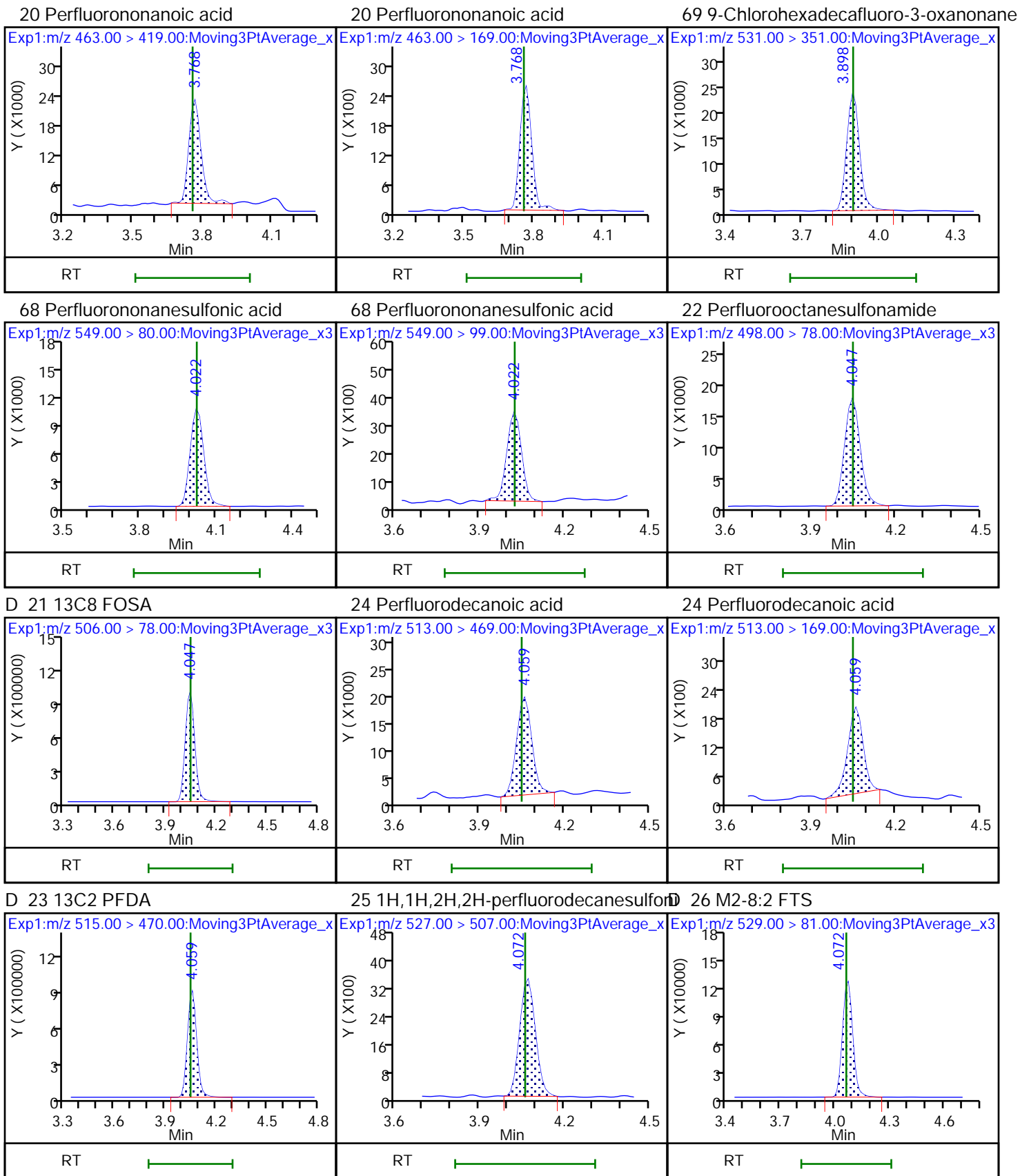
D 7 13C2 PFHxA





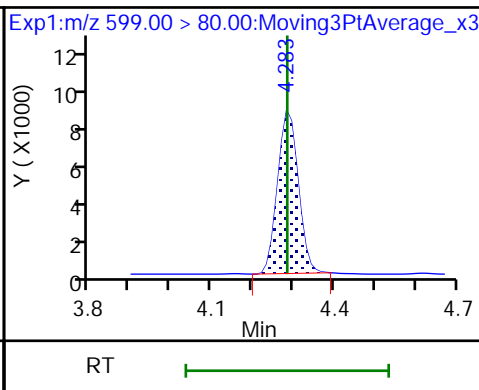
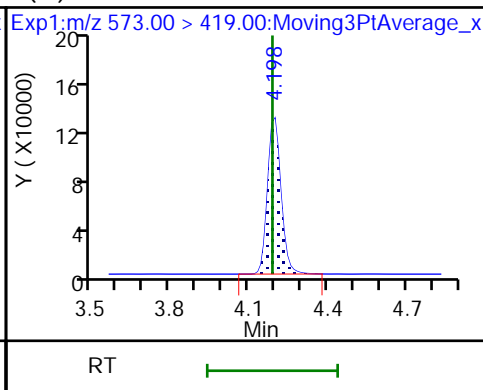
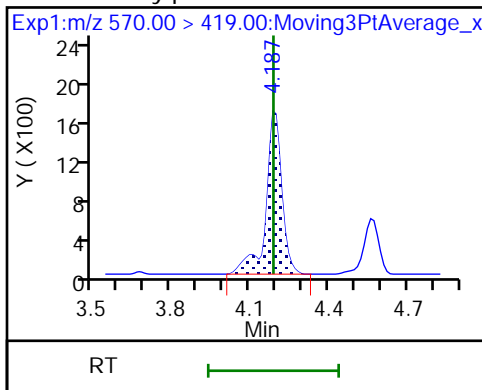






28 N-methylperfluorooctanesulfonamid (M) d3-NMeFOSAA

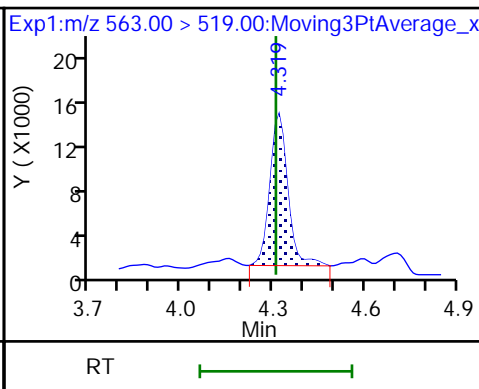
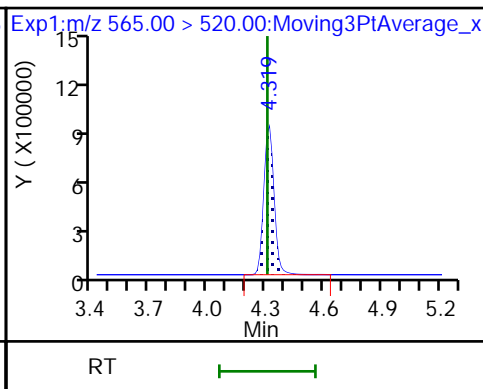
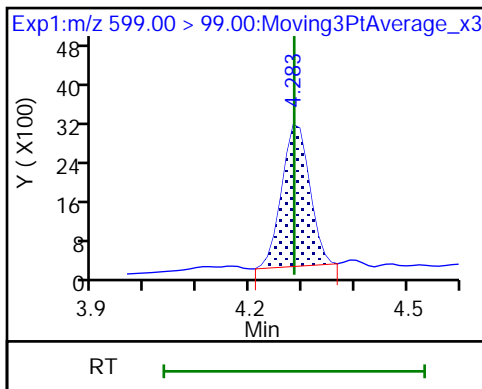
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

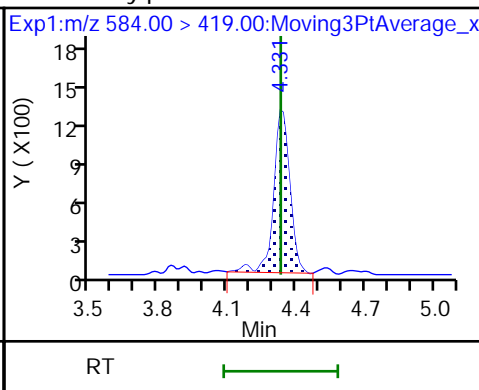
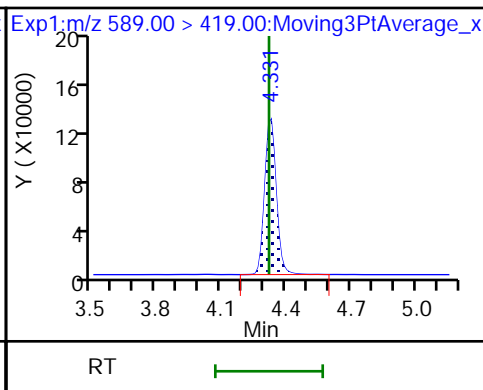
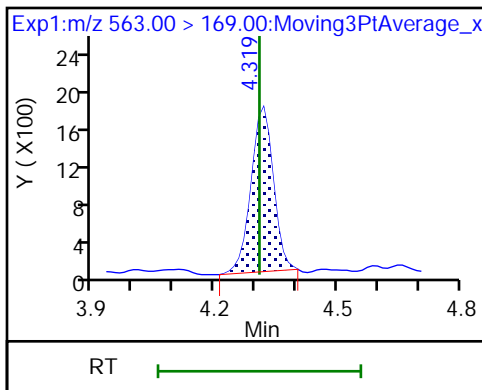
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

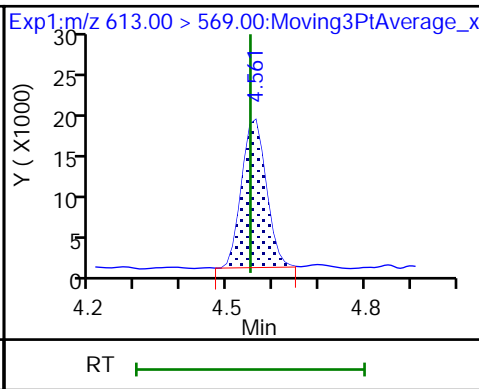
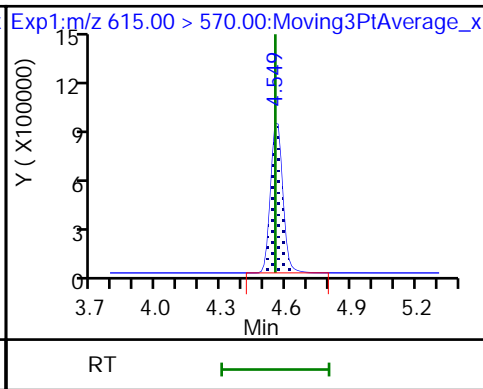
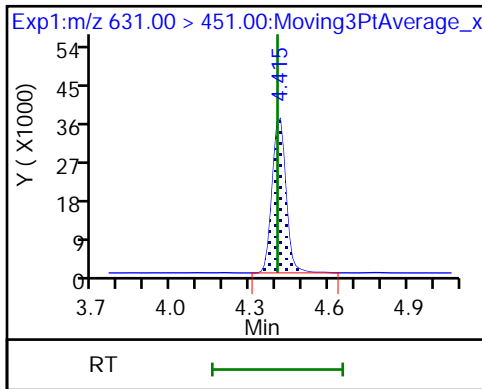
33 N-ethylperfluorooctanesulfonamidoa (M)



66 11-Chloroeicosafluoro-3-oxaundeca

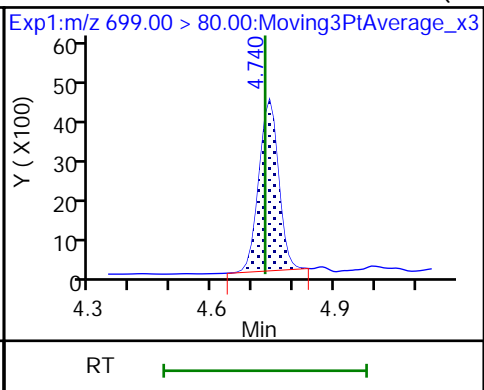
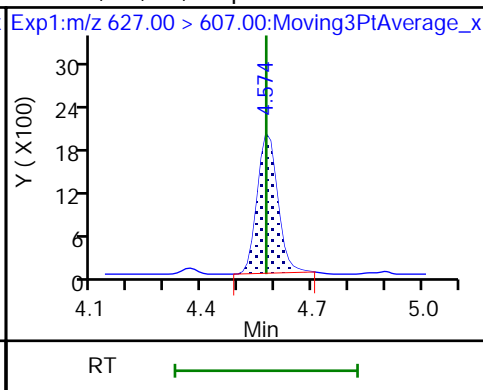
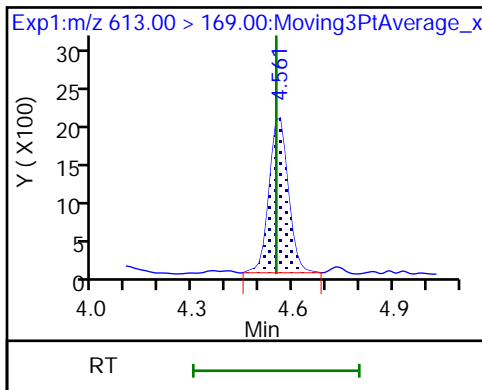
D 36 13C2 PFDoA

37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

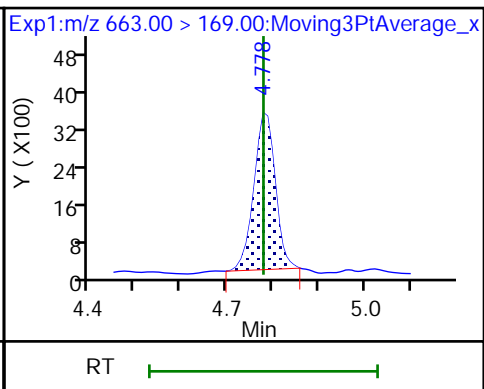
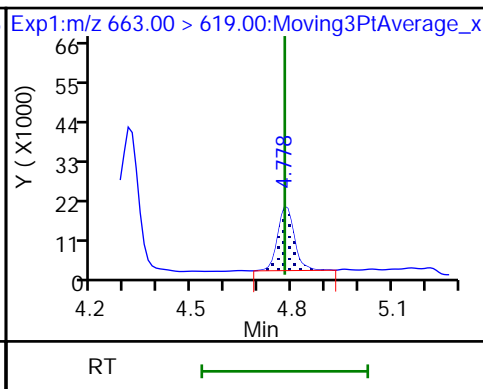
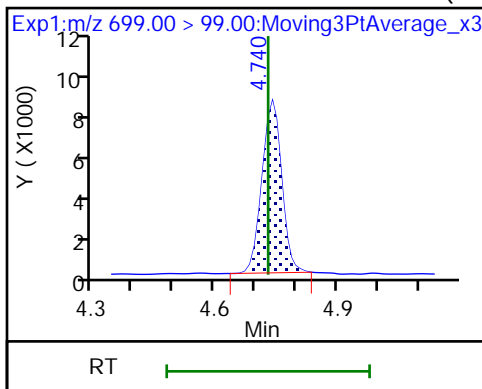
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

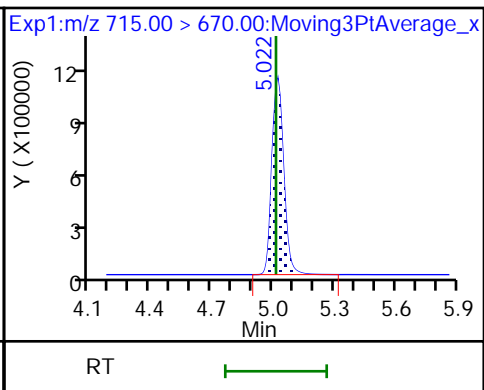
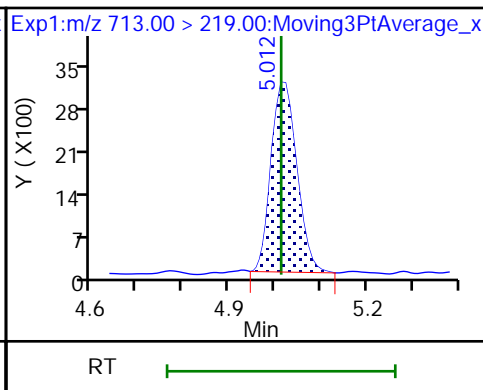
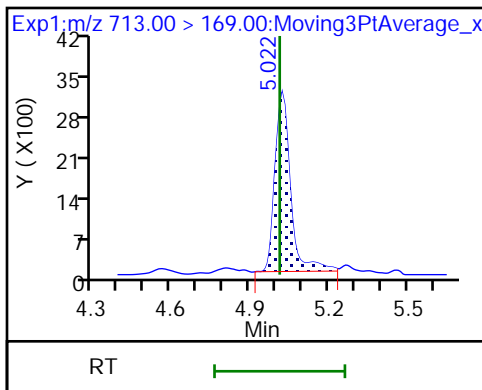
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

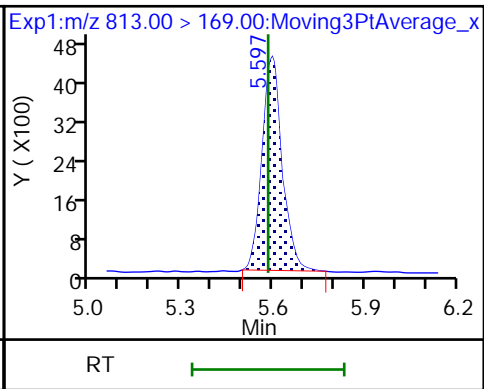
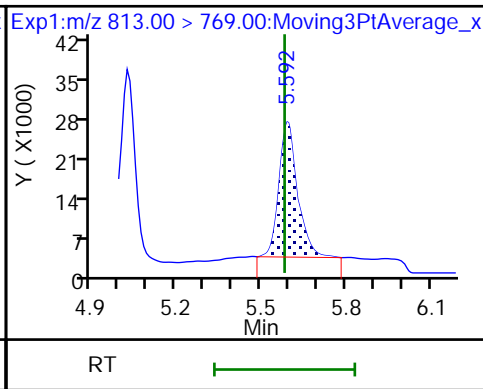
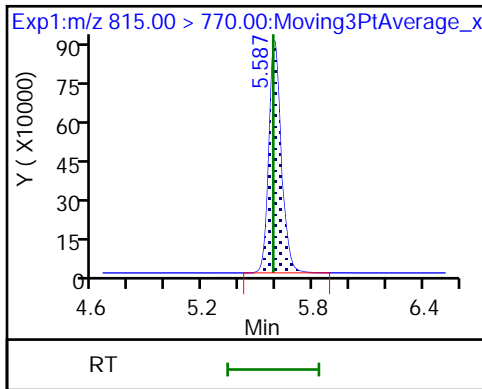
D 43 13C2 PFTeDA



D 44 13C2 PFHxDA

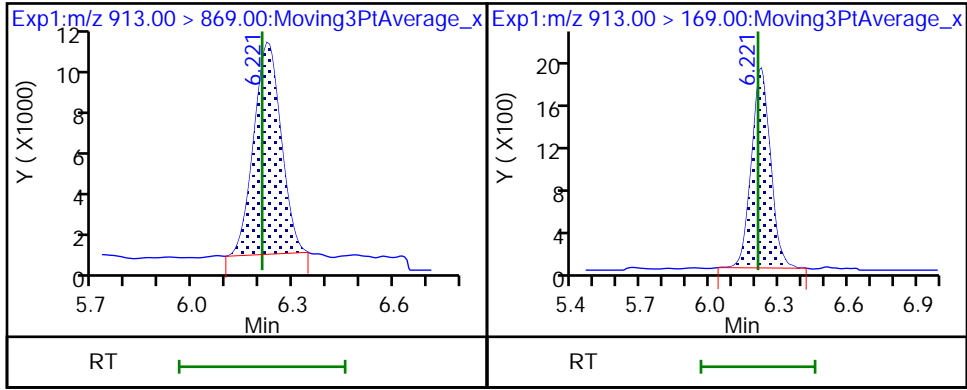
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

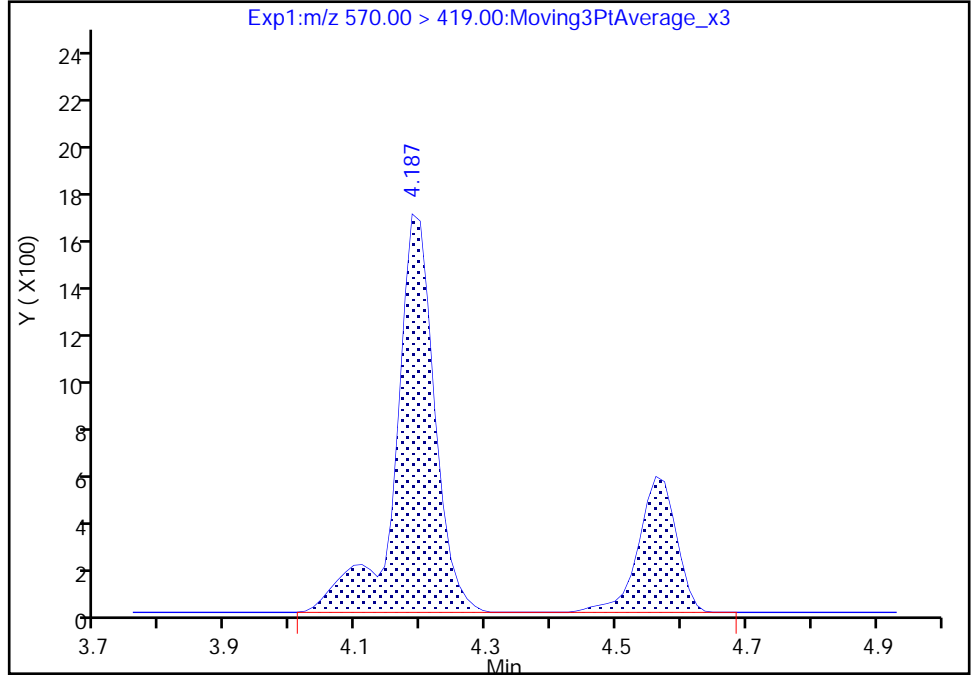
Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A017.d  
Injection Date: 26-Jul-2019 10:54:13 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 17  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

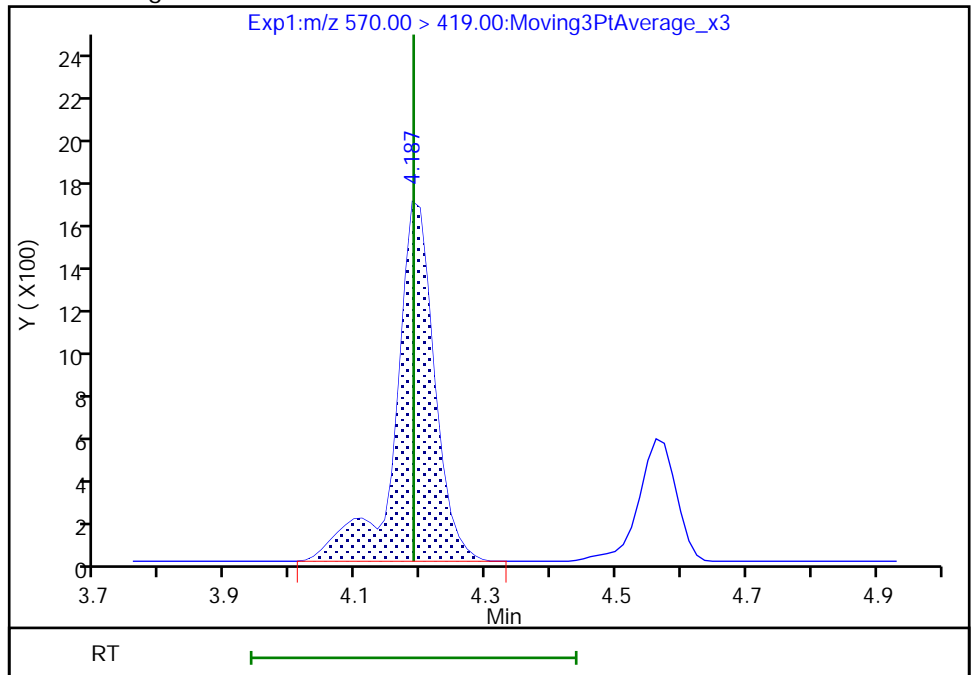
RT: 4.19  
Area: 9215  
Amount: 1.307953  
Amount Units: ng/ml

Processing Integration Results



RT: 4.19  
Area: 6948  
Amount: 1.037256  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 26-Jul-2019 13:39:18  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

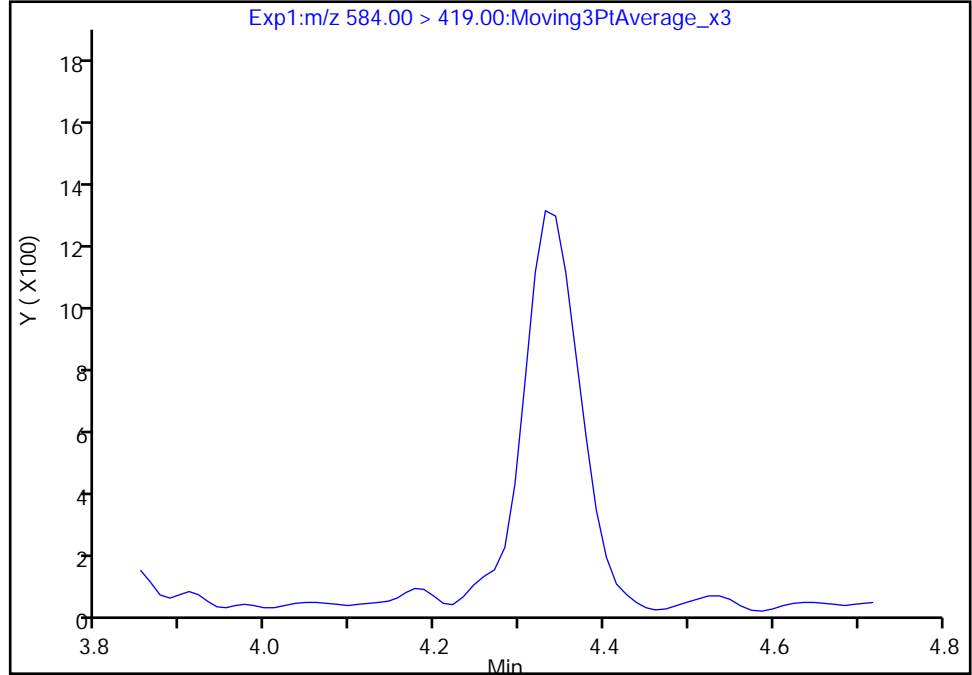
Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A017.d  
Injection Date: 26-Jul-2019 10:54:13 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 17  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6

Signal: 1

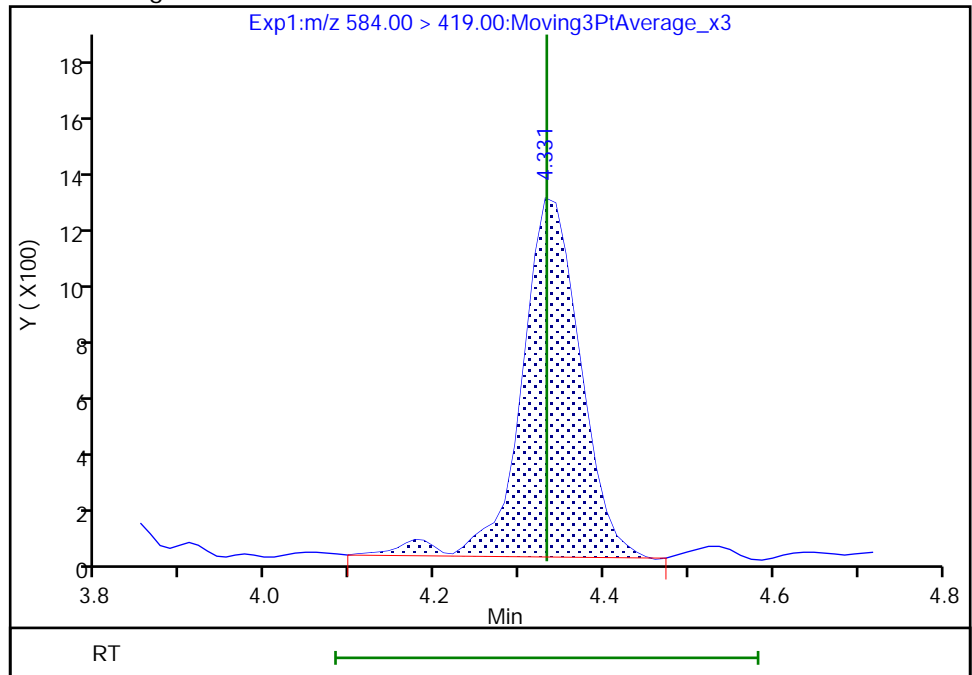
Not Detected  
Expected RT: 4.33

Processing Integration Results



RT: 4.33  
Area: 6191  
Amount: 1.027298  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 26-Jul-2019 13:39:31  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A018.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 26-Jul-2019 11:02:14 ALS Bottle#: 4 Worklist Smp#: 18  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC2  
 Misc. Info.: 200-0036970-018 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3

Method: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 29-Jul-2019 17:48:58 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d

Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0306

First Level Reviewer: chirgwinb Date: 26-Jul-2019 13:25:33

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.754	1.754	0.0	1.005	181265	2.05		103	15.0	
D 1 13C4 PFBA										
217.00 > 172.00	1.745	1.754	-0.009	0.507	4790602	45.8		91.6	10324	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.183	2.183	0.0	1.000	180493	2.02		101	8.4	
D 3 13C5 PFPeA										
267.90 > 223.00	2.183	2.183	0.0	0.635	4620281	47.0		94.0	6805	
D 47 13C3 PFBS										
301.90 > 80.00	2.211	2.211	0.0	0.643	4109072	42.6		91.5	749772	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.211	2.211	0.0	1.000	173561	1.93	Target=1.98	109	539	
298.90 > 99.00	2.211	2.211	0.0	1.000	84320		2.06(0.99-2.97)	109	64.3	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.583	2.583	0.0	1.000	35464	1.85		98.8	231	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.583	2.583	0.0	0.751	375615	40.2		86.1	362	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.633	2.633	0.0	1.000	191379	2.08	Target=12.51	104	48.4	
313.00 > 119.00	2.633	2.633	0.0	1.000	13868		13.80(6.25-18.76)	104	16.6	
D 7 13C2 PFHxA										
315.00 > 270.00	2.633	2.633	0.0	0.765	4473437	45.8		91.7	8558	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.646	2.646	0.0	1.197	151358	1.92	Target=2.77	102	443	
349.00 > 99.00	2.646	2.646	0.0	1.197	53456		2.83(1.38-4.15)	102	97.8	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.766	2.766	0.0	1.000	31195	1.93		96.4	9.6	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.766	2.766	0.0	0.804	318213	50.8		102	2013	
D 11 18O2 PFHxS										
403.00 > 84.00	3.060	3.059	0.001	0.889	2489096	44.0		93.1	25971	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.060	3.059	0.001	1.000	133064	1.92	Target=3.37	105	195	
399.00 > 99.00	3.060	3.059	0.001	1.000	37828		3.52(1.68-5.05)	105	35.9	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.060	3.059	0.001	1.000	169875	2.00	Target=3.74	99.9	19.2	
363.00 > 169.00	3.060	3.059	0.001	1.000	46856		3.63(1.87-5.62)	99.9	189	
D 9 13C4 PFHpA										
367.00 > 322.00	3.060	3.059	0.001	0.889	4538861	47.5		94.9	20569	
77 DONA										
377.00 > 251.00	3.108	3.108	0.0	0.832	410989	1.97	Target=2.75	104	677	
377.00 > 85.00	3.108	3.108	0.0	0.832	147122		2.79(1.37-4.12)	104	258	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.420	3.419	0.001	0.916	100067	1.89	Target=4.99	99.3	427	
449.00 > 99.00	3.420	3.419	0.001	0.916	21482		4.66(2.50-7.49)	99.3	86.2	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.430	3.429	0.001	1.000	36889	2.04		107	255	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.429	0.001	0.997	501736	42.6		89.8	1328	
* 62 13C2 PFOA										
415.00 > 370.00	3.440	3.439	0.001		5552205	50.0			22313	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.440	3.439	0.001	1.000	224294	2.17	Target=2.72	108	30.0	
413.00 > 169.00	3.440	3.439	0.001	1.000	77400		2.90(1.36-4.08)	108	275	
D 14 13C4 PFOA										
417.00 > 372.00	3.440	3.439	0.001	1.000	4756035	47.1		94.2	14497	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.734	3.735	-0.001	1.000	82423	1.98	Target=4.21	107	326	
499.00 > 99.00	3.734	3.735	-0.001	1.000	20256		4.07(2.10-6.31)	107	50.9	
D 18 13C4 PFOS										
503.00 > 80.00	3.734	3.735	-0.001	1.085	2100981	44.6		93.3	8195	
D 19 13C5 PFNA										
468.00 > 423.00	3.757	3.758	-0.001	1.092	4340953	47.1		94.2	18578	
20 Perfluorononanoic acid										
463.00 > 419.00	3.757	3.758	-0.001	1.000	156241	1.99	Target=8.52	99.3	31.6	
463.00 > 169.00	3.757	3.758	-0.001	1.000	17233		9.07(4.26-12.79)	99.3	166	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.898	3.899	-0.001	1.044	179878	1.88		101	532	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.022	4.024	-0.002	1.077	68974	1.86	Target=2.52	96.8	707	
549.00 > 99.00	4.022	4.024	-0.002	1.077	27715		2.49(1.26-3.78)	96.8	44.6	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.047	4.049	-0.002	1.000	153333	2.07		103	1110	
D 21 13C8 FOSA										
506.00 > 78.00	4.047	4.049	-0.002	1.176	4062039	248.0		96.0	61508	08/13/2019

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.047	4.049	-0.002	1.000	139639	2.28	Target=9.67	114	12.0	
513.00 > 169.00	4.047	4.049	-0.002	1.000	13333		10.47(4.83-14.50)	114	38.6	
D 23 13C2 PFDA										
515.00 > 470.00	4.047	4.049	-0.002	1.176	3161787	42.9		85.8	10711	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.059	4.061	-0.002	1.000	28727	2.20		115	342	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.059	4.061	-0.002	1.180	468782	43.2		90.1	1562	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.198	4.189	0.009	1.003	12870	1.97		98.5	22.0	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.189	-0.002	1.217	431715	45.9		91.7	3799	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.283	4.284	-0.001	1.147	56004	1.92	Target=2.60	99.7	636	
599.00 > 99.00	4.283	4.284	-0.001	1.147	20898		2.68(1.30-3.90)	99.7	58.4	
D 30 13C2 PFUnA										
565.00 > 520.00	4.307	4.308	-0.001	1.252	3140582	46.8		93.6	14185	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.308	0.011	1.003	113426	2.10	Target=8.30	105	31.1	
563.00 > 169.00	4.319	4.308	0.011	1.003	13176		8.61(4.15-12.45)	105	106	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.320	-0.001	1.255	498703	47.5		95.1	1567	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.331	4.332	-0.001	1.003	14049	2.20		110	101	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.403	4.404	-0.001	1.179	285835	1.96		104	2409	
D 36 13C2 PFDaA										
615.00 > 570.00	4.549	4.550	-0.001	1.322	3386559	46.9		93.7	7468	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.549	4.550	-0.001	1.000	139487	2.01	Target=7.78	101	11.8	
613.00 > 169.00	4.549	4.550	-0.001	1.000	18660		7.48(3.89-11.67)	101	118	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.574	4.575	-0.001	1.127	17290	2.09		108	390	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.729	4.730	-0.001	1.267	26406	1.89	Target=0.49	97.7	72.7	
699.00 > 99.00	4.729	4.730	-0.001	1.267	58892		0.45(0.25-0.74)	97.7	311	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.778	4.778	0.0	1.050	131396	2.11	Target=5.37	106	9.4	
663.00 > 169.00	4.778	4.778	0.0	1.050	24542		5.35(2.68-8.05)	106	130	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.022	5.013	0.009	1.002	24247	2.04	Target=1.00	102	82.5	
713.00 > 219.00	5.013	5.013	-0.001	1.000	24497		0.99(0.50-1.50)	102	215	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.013	5.013	-0.001	1.457	4473081	45.0		89.9	9695	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.587	5.583	0.004	1.624	4255458	48.1		96.1	10574	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.587	5.583	0.004	1.000	192689	2.00	Target=5.39	100	9.3	
813.00 > 169.00	5.592	5.583	0.009	1.001	35715		5.40(2.70-8.09)	100	259	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	6.214	6.207	0.007	1.112	125768	1.97	Target=5.46	98.3	27.1	
913.00 > 169.00	6.214	6.207	0.007	1.112	23228		5.41(2.73-8.19)	98.3	230	

Reagents:

LCPFAS32-L2\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A018.d

Injection Date: 26-Jul-2019 11:02:14

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 4

Worklist Smp#: 18

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

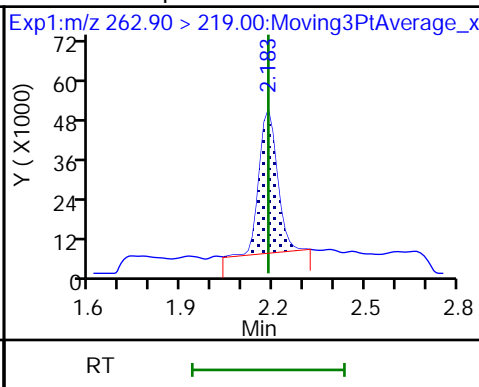
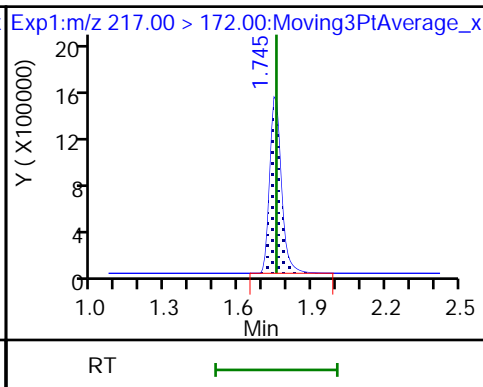
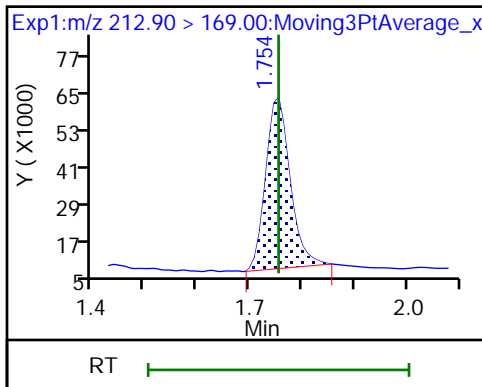
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

2 Perfluorobutanoic acid

D 1 13C4 PFBA

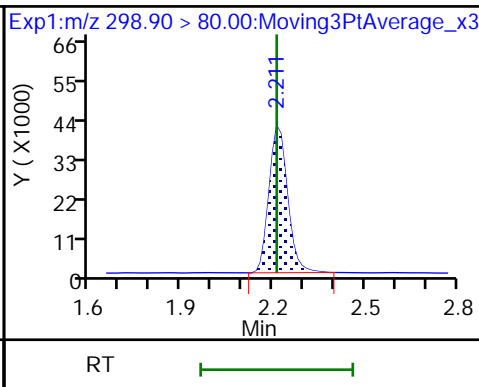
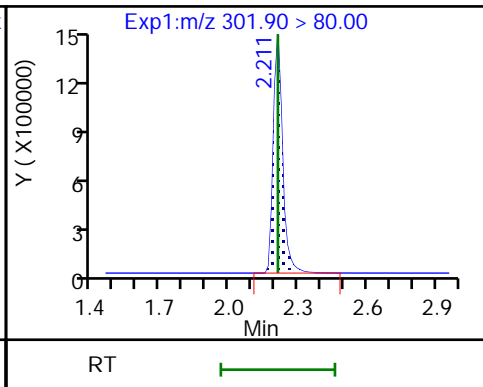
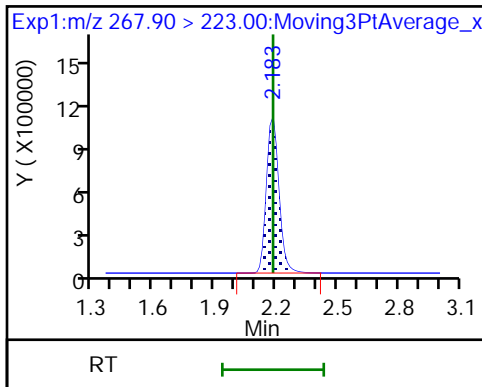
4 Perfluoropentanoic acid



D 3 13C5 PFPeA

D 47 13C3 PFBS

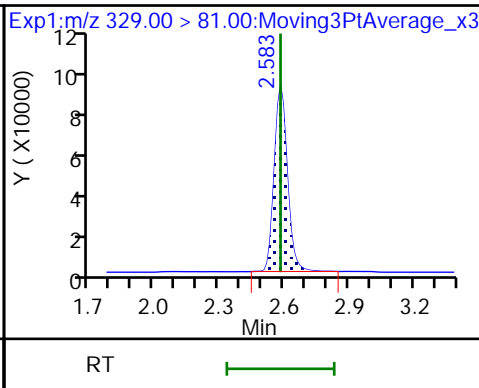
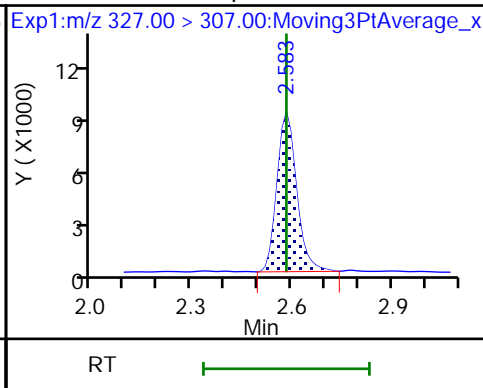
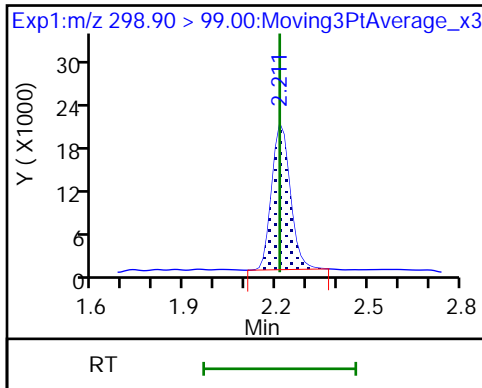
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfonate

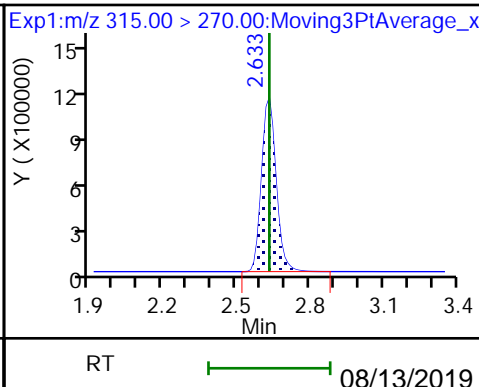
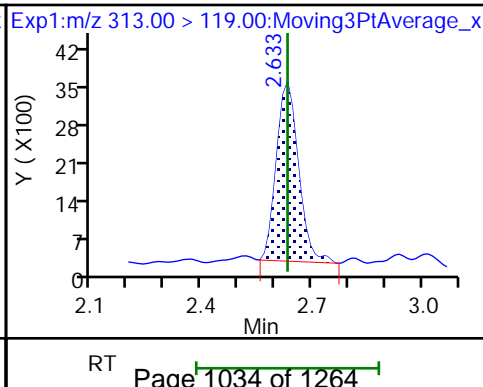
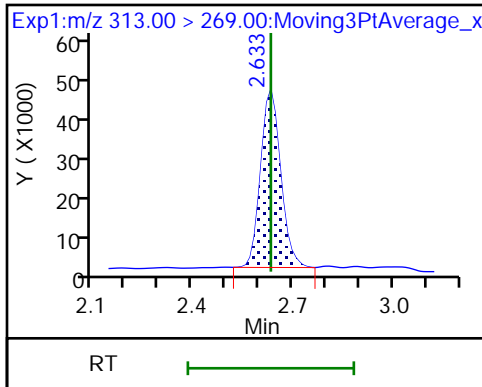
D 60 M2-4:2 FTS

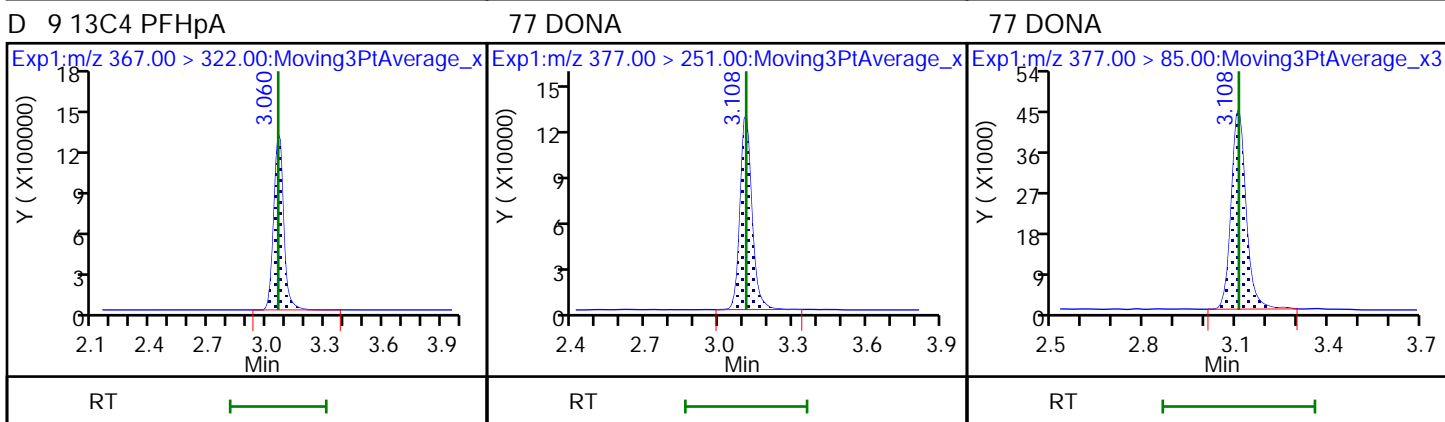
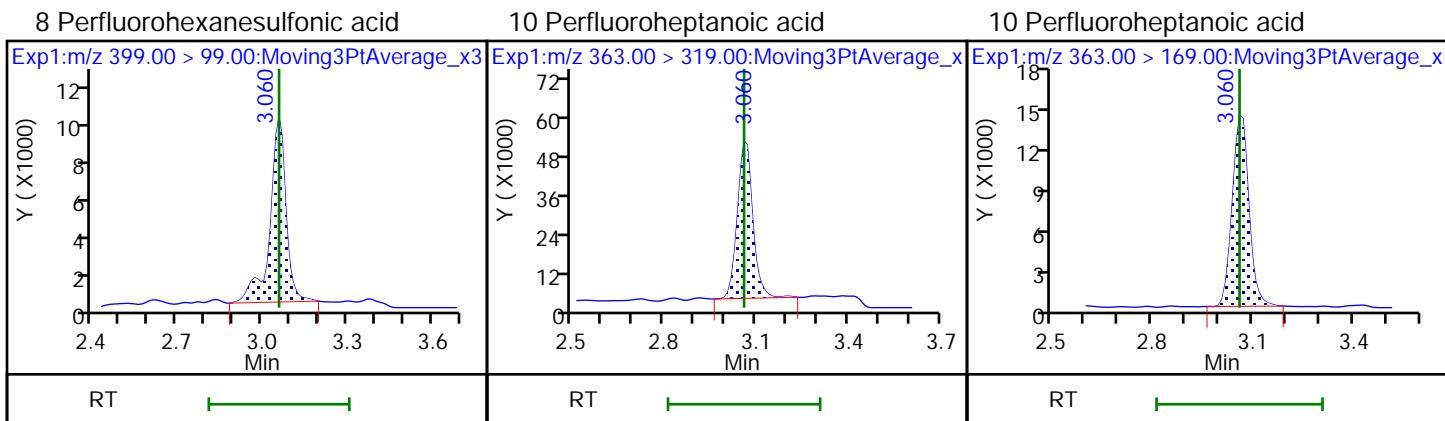
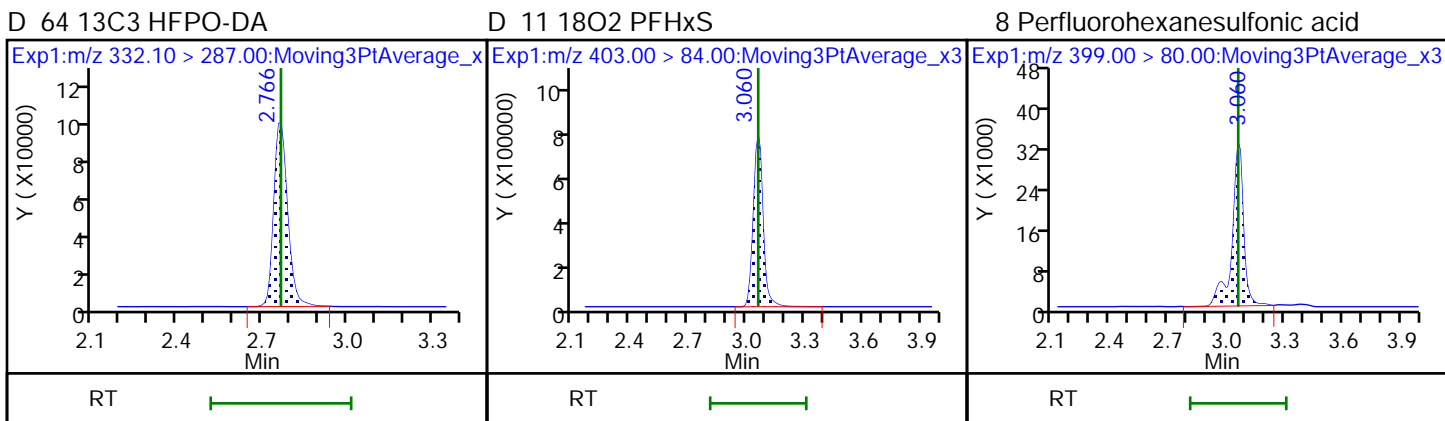
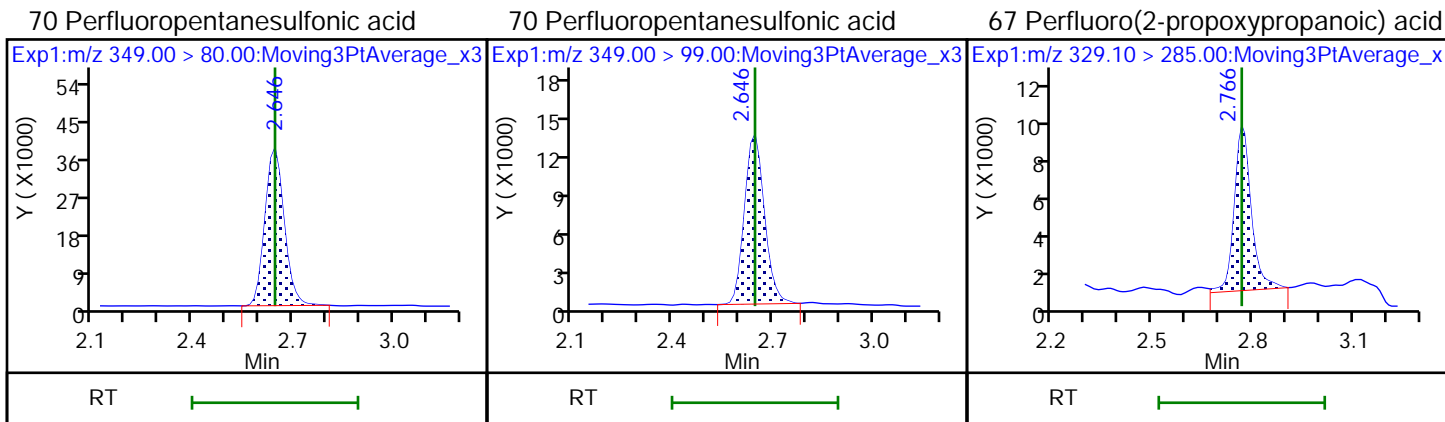


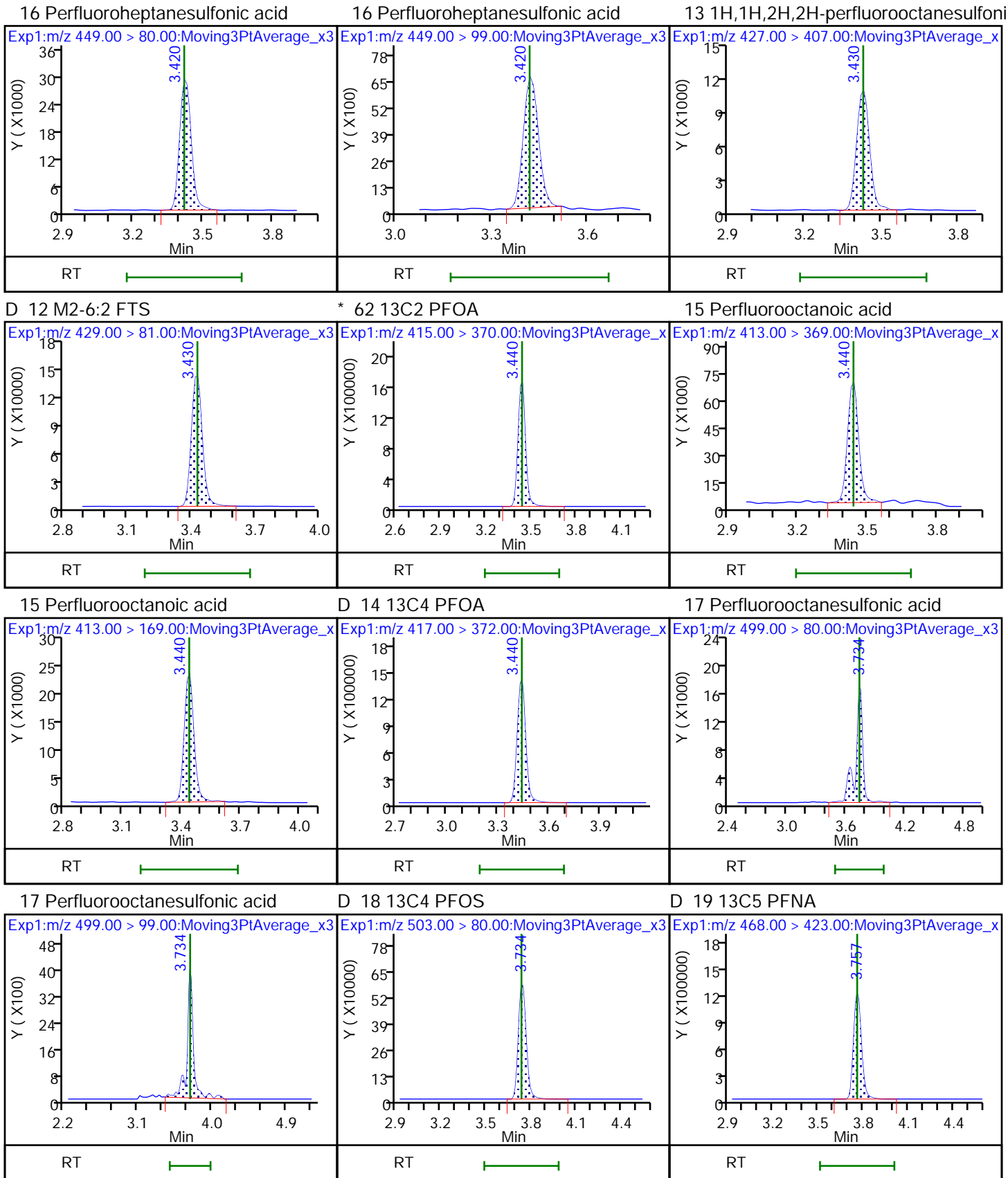
6 Perfluorohexanoic acid

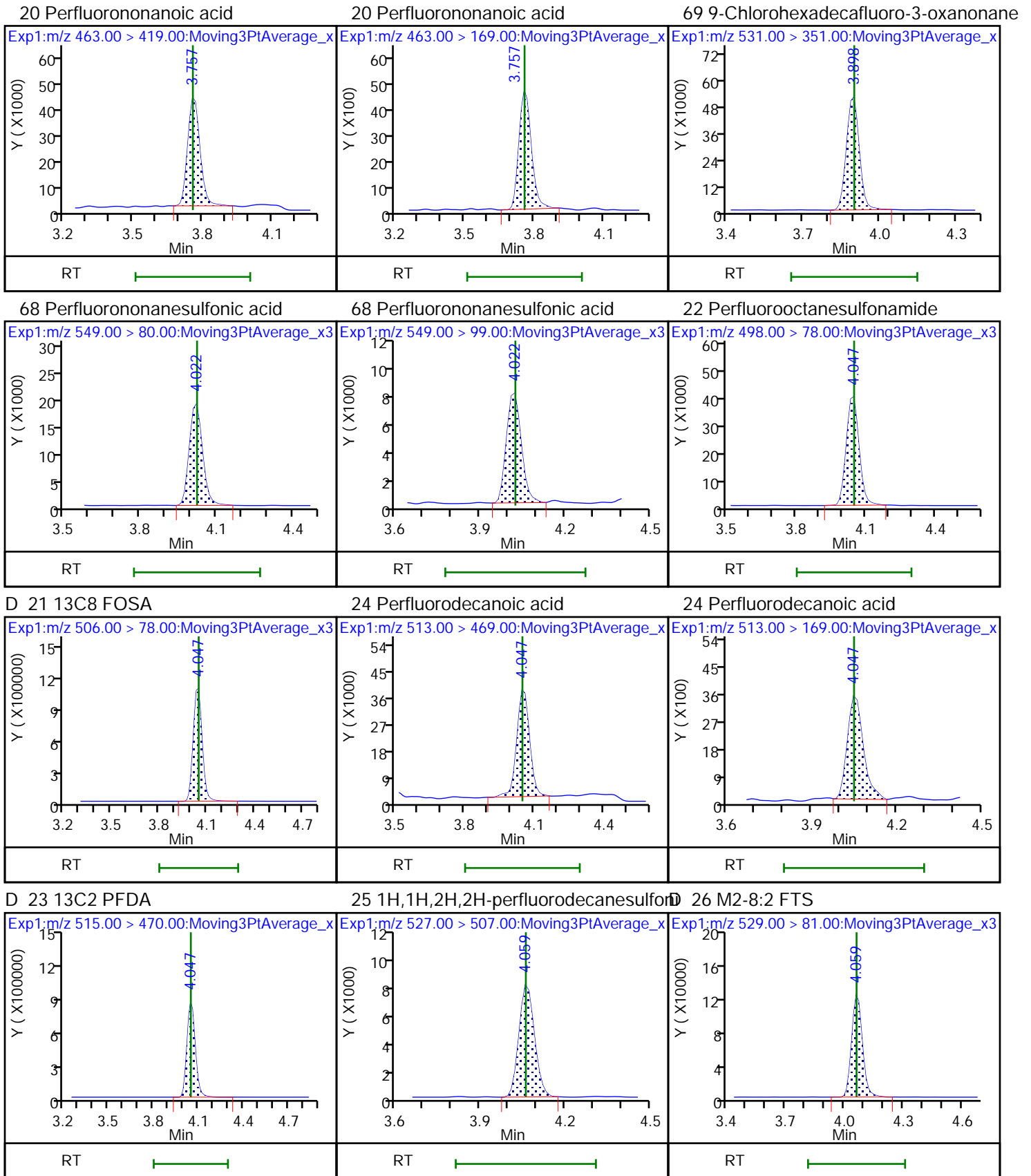
6 Perfluorohexanoic acid

D 7 13C2 PFHxA



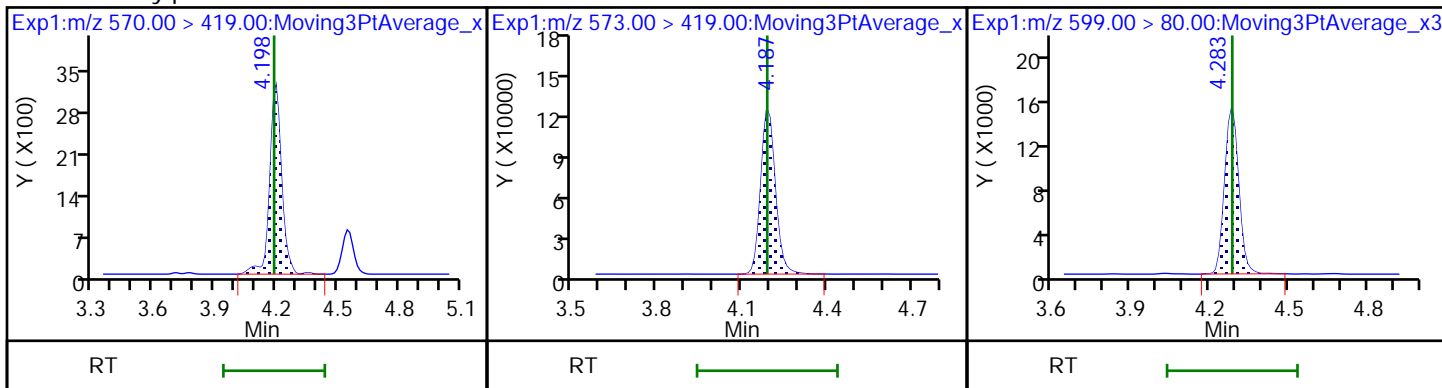






28 N-methylperfluorooctanesulfonamidD 27 d3-NMeFOSAA

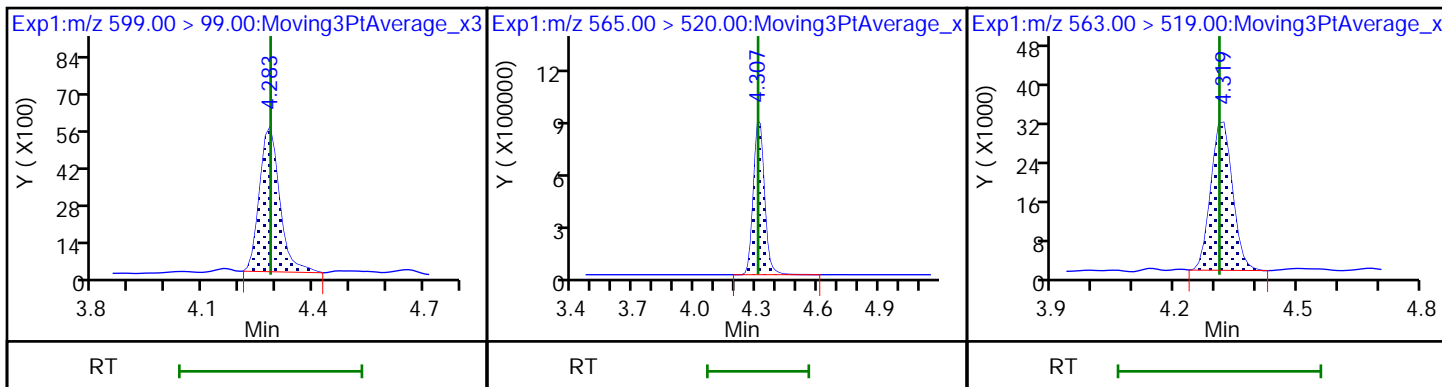
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

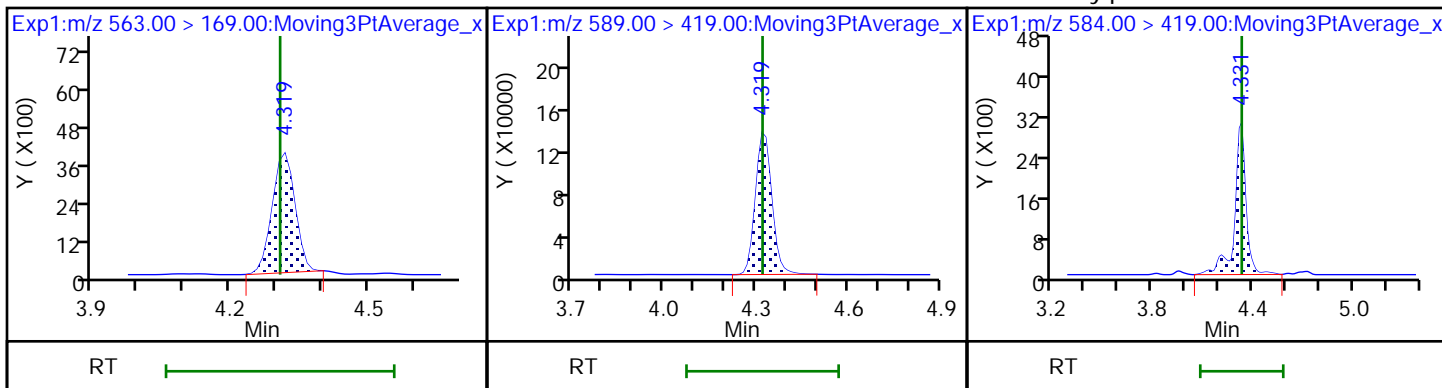
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

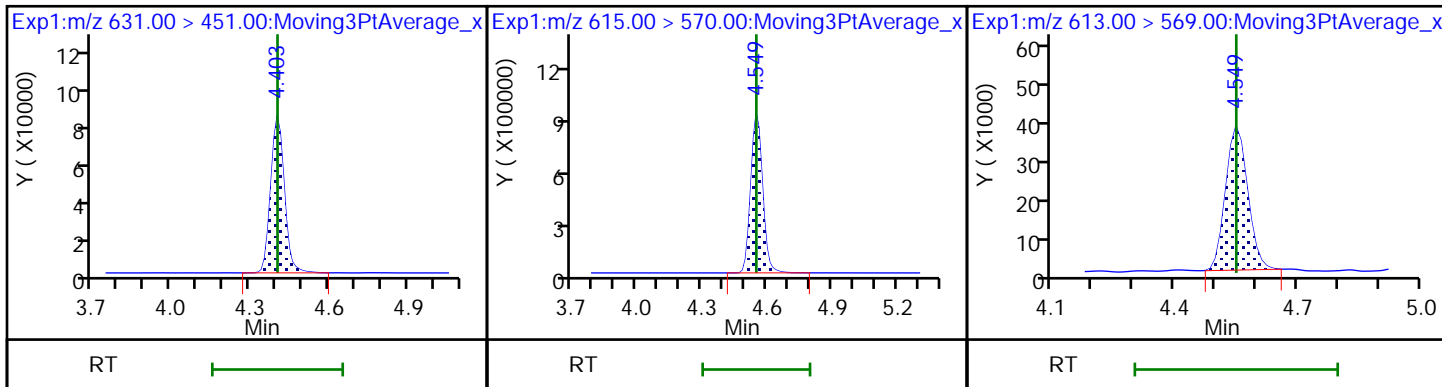
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamidoa



66 11-Chloroeicosafuoro-3-oxaundecaD 36 13C2 PFDoA

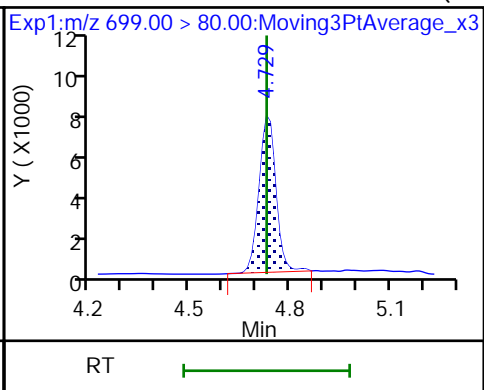
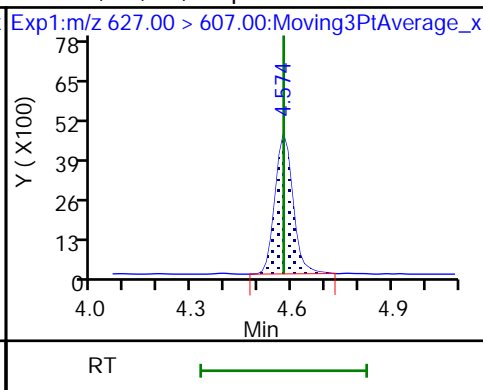
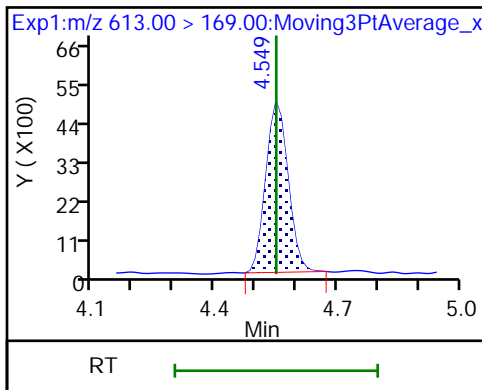
37 Perfluorododecanoic acid





37 Perfluorododecanoic acid

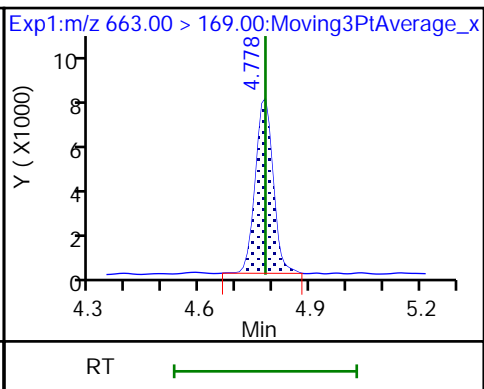
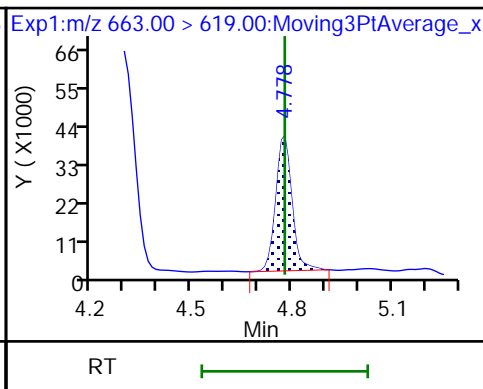
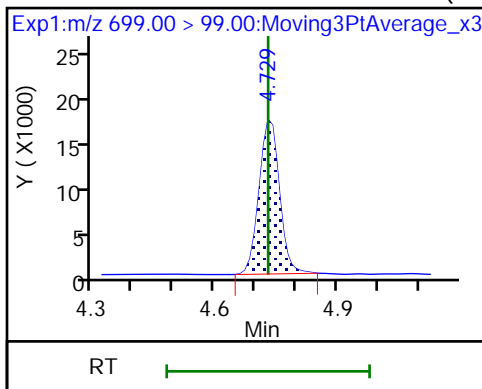
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

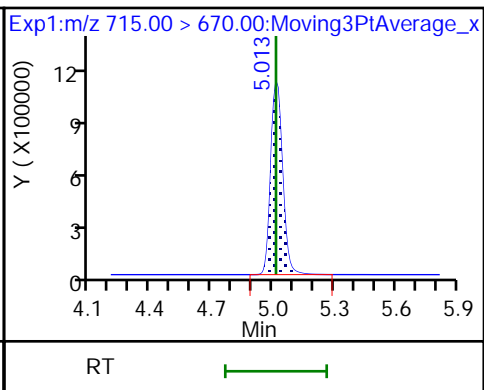
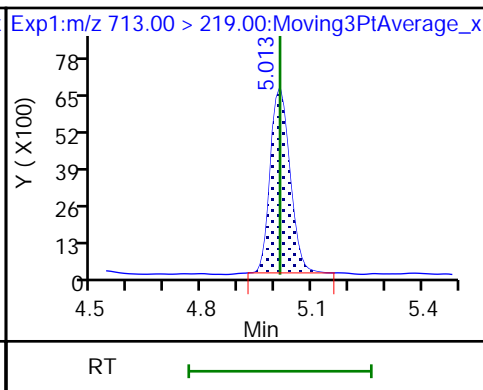
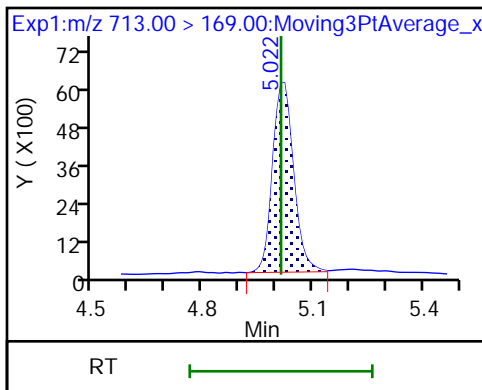
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

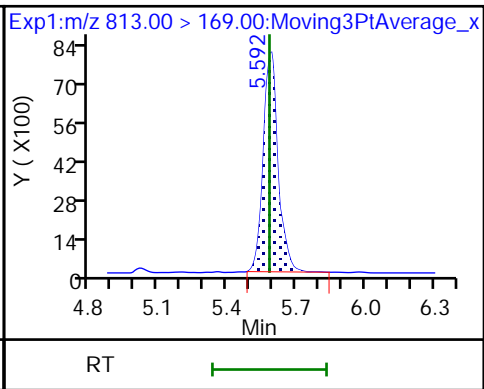
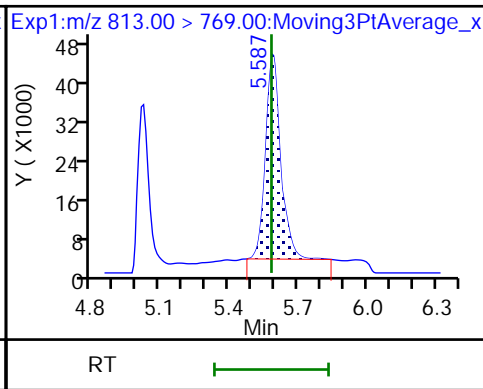
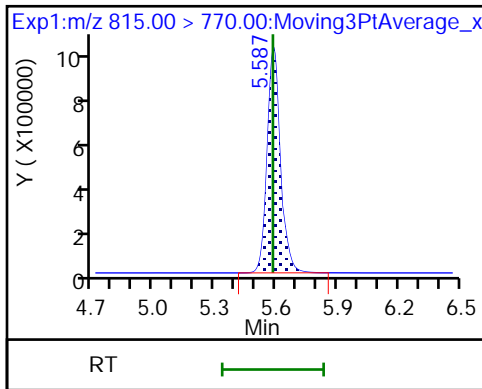
D 43 13C2 PFTeDA



D 44 13C2 PFHxDA

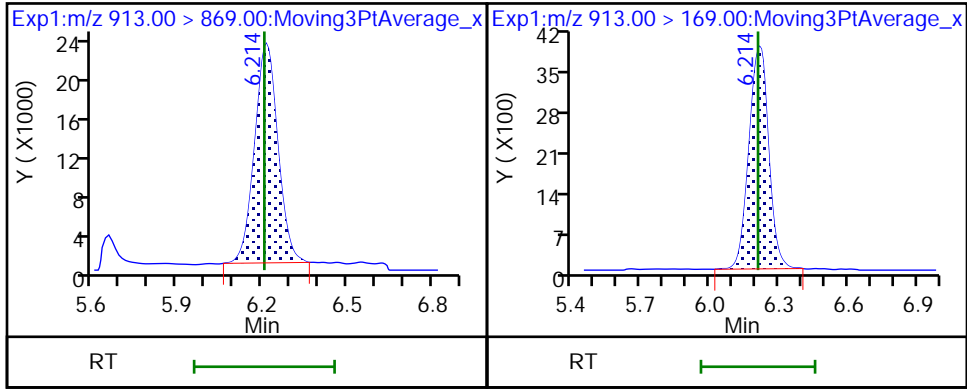
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A019.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 26-Jul-2019 11:10:16 ALS Bottle#: 5 Worklist Smp#: 19  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC3  
 Misc. Info.: 200-0036970-019 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3

Method: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 29-Jul-2019 17:49:16 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0306

First Level Reviewer: murrayjw Date: 29-Jul-2019 11:00:26

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.754	1.754	0.0	1.000	425099	4.87		97.4	36.3	
D 1 13C4 PFBA										
217.00 > 172.00	1.754	1.754	0.0	0.510	4735112	46.0		92.0	10174	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.183	2.183	0.0	1.000	409244	4.80		96.0	18.7	
D 3 13C5 PFPeA										
267.90 > 223.00	2.183	2.183	0.0	0.635	4403817	45.6		91.1	6733	
D 47 13C3 PFBS										
301.90 > 80.00	2.211	2.211	0.0	0.643	4054587	42.7		91.8	713581	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.225	2.211	0.014	1.006	379584	4.28	Target=1.98	96.9	989	
298.90 > 99.00	2.225	2.211	0.014	1.006	188887		2.01(0.99-2.97)	96.9	141	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.583	2.583	0.0	1.000	89347	4.30		92.0	712	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.583	2.583	0.0	0.751	406391	44.2		94.7	393	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.633	2.633	0.0	1.000	437532	4.79	Target=12.51	95.7	116	
313.00 > 119.00	2.633	2.633	0.0	1.000	37589		11.64(6.25-18.76)	95.7	53.9	
D 7 13C2 PFHxA										
315.00 > 270.00	2.633	2.633	0.0	0.765	4439363	46.2		92.5	8334	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.646	2.646	0.0	1.197	361774	4.64	Target=2.77	98.9	1313	
349.00 > 99.00	2.646	2.646	0.0	1.197	126655		2.86(1.38-4.15)	98.9	237	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.774	2.766	0.008	1.000	69647	5.09		102	22.6	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.774	2.766	0.008	0.806	269344	43.7		87.4	1503	
D 11 18O2 PFHxS										
403.00 > 84.00	3.070	3.059	0.011	0.892	2421176	43.5		92.0	11872	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.070	3.059	0.011	1.000	298686	4.43	Target=3.37	97.3	1330	
399.00 > 99.00	3.060	3.059	0.001	0.997	88283		3.38(1.68-5.05)	97.3	83.8	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.070	3.059	0.011	1.000	392838	4.98	Target=3.74	99.6	46.4	
363.00 > 169.00	3.070	3.059	0.011	1.000	100586		3.91(1.87-5.62)	99.6	372	
D 9 13C4 PFHpA										
367.00 > 322.00	3.070	3.059	0.011	0.892	4209662	44.8		89.5	11346	
77 DONA										
377.00 > 251.00	3.108	3.108	0.0	0.830	938009	4.74	Target=2.75	101	1690	
377.00 > 85.00	3.108	3.108	0.0	0.830	332299		2.82(1.37-4.12)	101	483	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.430	3.419	0.011	0.916	231634	4.62	Target=4.99	97.0	825	
449.00 > 99.00	3.430	3.419	0.011	0.916	46298		5.00(2.50-7.49)	97.0	185	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.430	3.429	0.001	1.000	88994	4.70		99.2	886	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.430	3.429	0.001	0.997	523962	45.3		95.3	1508	
* 62 13C2 PFOA										
415.00 > 370.00	3.440	3.439	0.001		5461309	50.0			18561	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.440	3.439	0.001	1.000	481891	4.78	Target=2.72	95.6	63.1	
413.00 > 169.00	3.440	3.439	0.001	1.000	188785		2.55(1.36-4.08)	95.6	496	
D 14 13C4 PFOA										
417.00 > 372.00	3.440	3.439	0.001	1.000	4634073	46.7		93.3	13322	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.745	3.735	0.010	1.000	173858	4.41	Target=4.21	95.1	1075	
499.00 > 99.00	3.745	3.735	0.010	1.000	40561		4.29(2.10-6.31)	95.1	161	
D 18 13C4 PFOS										
503.00 > 80.00	3.745	3.735	0.010	1.089	1990042	42.9		89.9	8508	
D 19 13C5 PFNA										
468.00 > 423.00	3.769	3.758	0.011	1.095	4123753	45.5		91.0	26044	
20 Perfluorononanoic acid										
463.00 > 419.00	3.769	3.758	0.011	1.000	374348	5.01	Target=8.52	100	79.2	
463.00 > 169.00	3.769	3.758	0.011	1.000	42831		8.74(4.26-12.79)	100	397	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.898	3.899	-0.001	1.041	435253	4.81		103	1361	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.022	4.024	-0.002	1.074	174659	4.97	Target=2.52	103	1601	
549.00 > 99.00	4.022	4.024	-0.002	1.074	74958		2.33(1.26-3.78)	103	127	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.047	4.049	-0.002	1.000	345321	4.92		98.4	1582	
D 21 13C8 FOSA										
506.00 > 78.00	4.047	4.049	-0.002	1.176	2844095	46.2		92.4	9957	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.060	4.049	0.011	1.000	305367	4.36	Target=9.67	87.2	21.8	
513.00 > 169.00	4.060	4.049	0.011	1.000	32299		9.45(4.83-14.50)	87.2	89.5	
D 23 13C2 PFDA										
515.00 > 470.00	4.060	4.049	0.011	1.180	3614917	49.9		99.7	18527	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.072	4.061	0.011	1.000	60411	4.76		99.3	823	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.072	4.061	0.011	1.184	454990	42.6		88.9	1577	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.198	4.189	0.009	1.000	28789	4.62		92.5	55.2	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.198	4.189	0.009	1.220	411329	44.4		88.9	2060	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.283	4.284	-0.001	1.144	125116	4.53	Target=2.60	94.1	1145	
599.00 > 99.00	4.283	4.284	-0.001	1.144	51323		2.44(1.30-3.90)	94.1	134	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.308	0.011	1.255	2823529	42.8		85.5	11351	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.308	0.011	1.000	286638	5.92	Target=8.30	118	81.1	
563.00 > 169.00	4.319	4.308	0.011	1.000	33722		8.50(4.15-12.45)	118	245	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.331	4.320	0.011	1.259	447183	43.3		86.7	1432	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.331	4.332	-0.001	1.000	28242	4.93		98.7	153	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.403	4.404	-0.001	1.176	674951	4.90		104	3876	
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.550	-0.001	1.322	3126922	44.0		88.0	6374	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.549	4.550	-0.001	1.000	325214	5.09	Target=7.78	102	27.3	
613.00 > 169.00	4.549	4.550	-0.001	1.000	39812		8.17(3.89-11.67)	102	325	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.574	4.575	-0.001	1.123	37924	4.72		97.9	643	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.741	4.730	0.011	1.266	60868	4.60	Target=0.49	95.1	147	
699.00 > 99.00	4.741	4.730	0.011	1.266	133607		0.46(0.25-0.74)	95.1	604	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.778	4.778	0.0	1.050	291354	5.08	Target=5.37	102	25.7	
663.00 > 169.00	4.778	4.778	0.0	1.050	57989		5.02(2.68-8.05)	102	304	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.022	5.013	0.009	1.000	56948	4.87	Target=1.00	97.4	219	
713.00 > 219.00	5.013	5.013	0.0	0.998	58973		0.97(0.50-1.50)	97.4	520	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.022	5.013	0.009	1.460	4390949	44.9		89.7	9046	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.587	5.583	0.004	1.624	3980161	45.7		91.4	9546	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.587	5.583	0.004	1.000	403751	4.97	Target=5.39	99.5	17.0	
813.00 > 169.00	5.587	5.583	0.004	1.000	72858		5.54(2.70-8.09)	99.5	542	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	6.214	6.207	0.007	1.112	291577	4.87	Target=5.46	97.4	63.0	
913.00 > 169.00	6.214	6.207	0.007	1.112	53887		5.41(2.73-8.19)	97.4	628	

Reagents:

LCPFAS32-L3\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A019.d

Injection Date: 26-Jul-2019 11:10:16

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 5

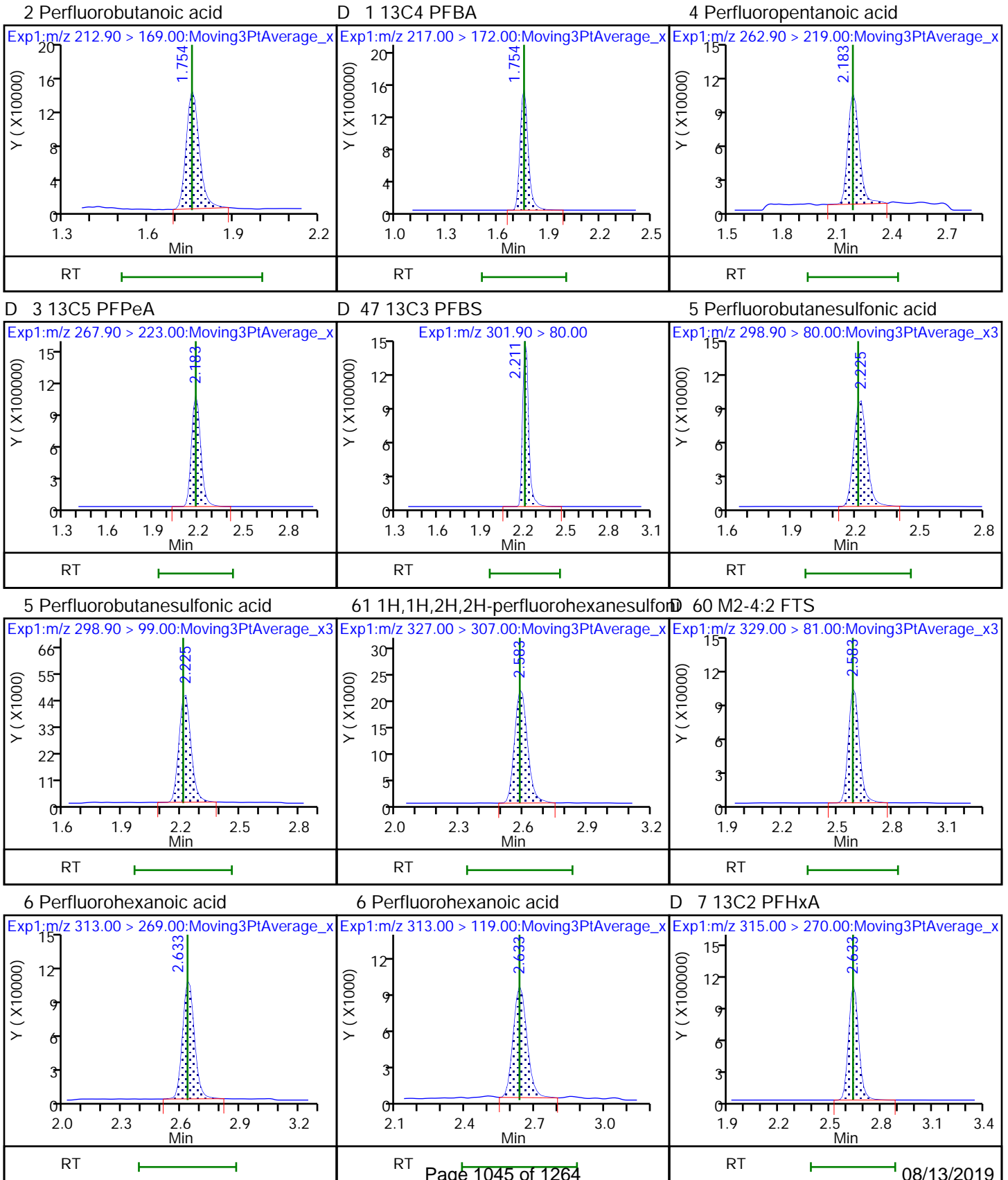
Worklist Smp#: 19

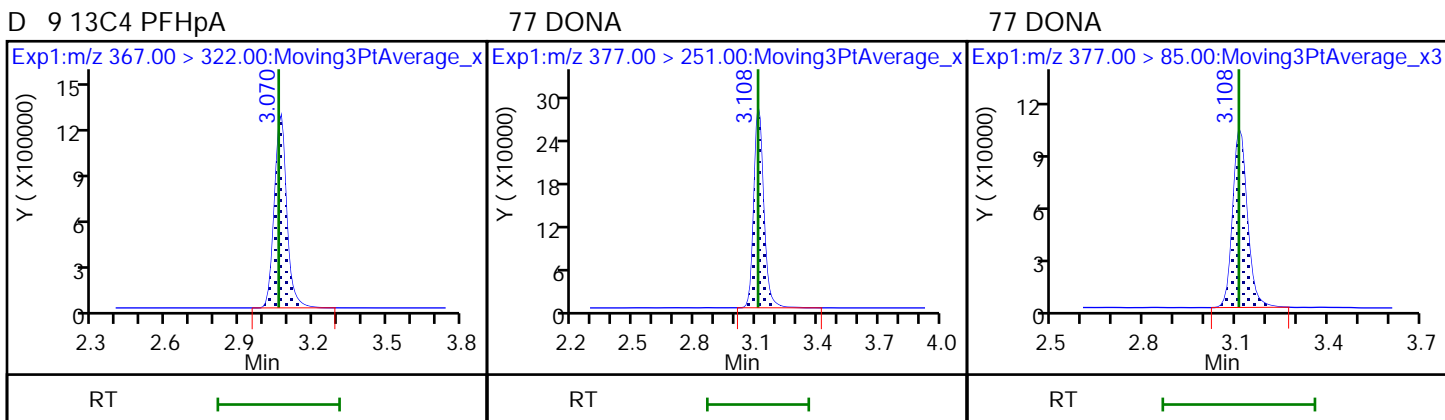
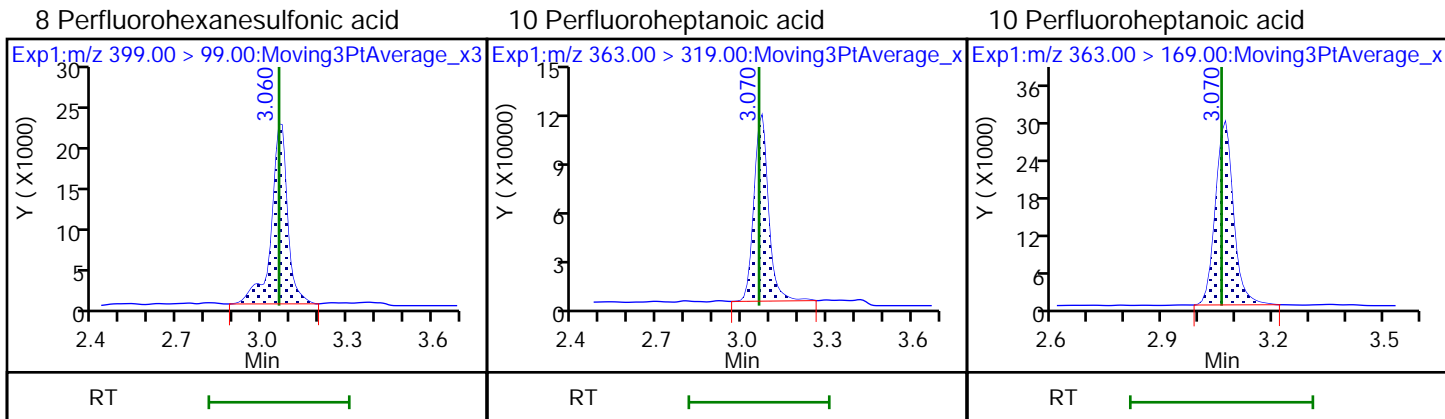
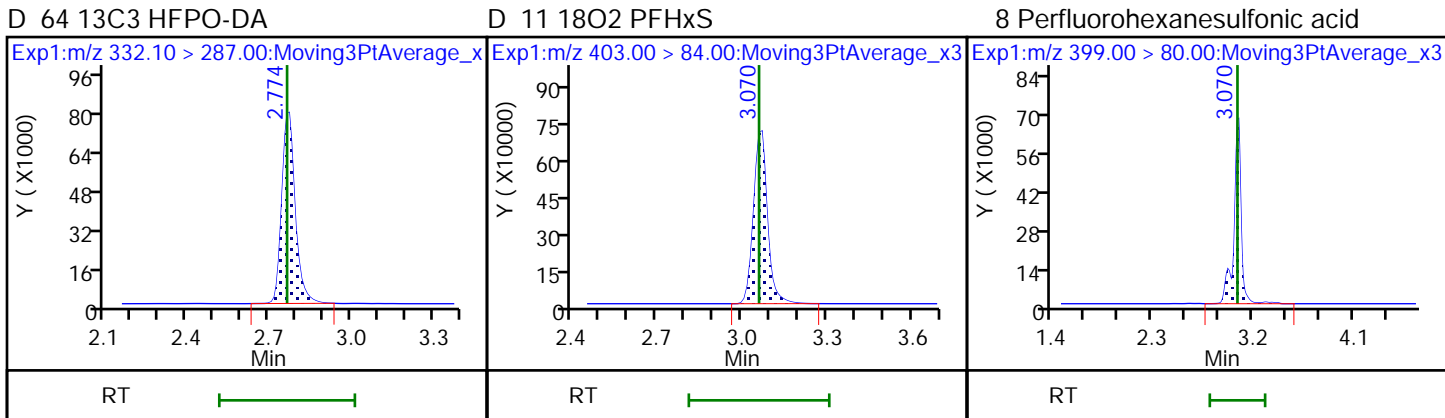
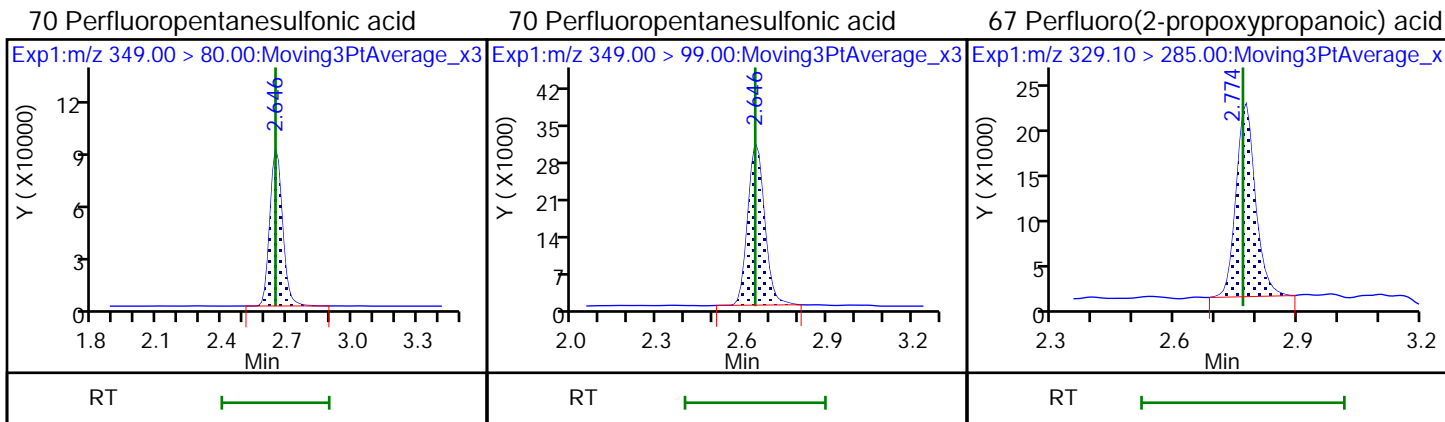
Injection Vol: 2.0 ul

Dil. Factor: 1.0000

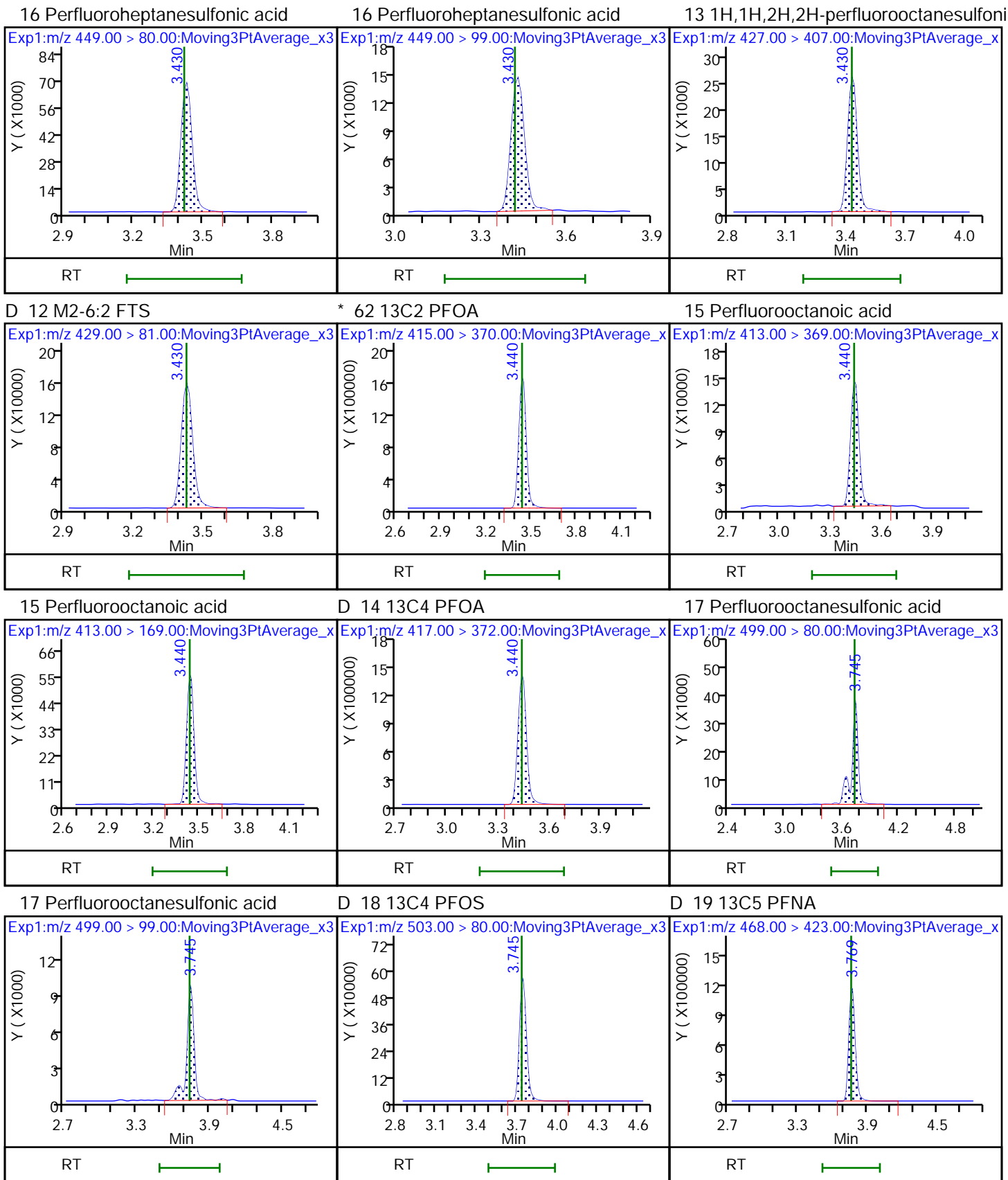
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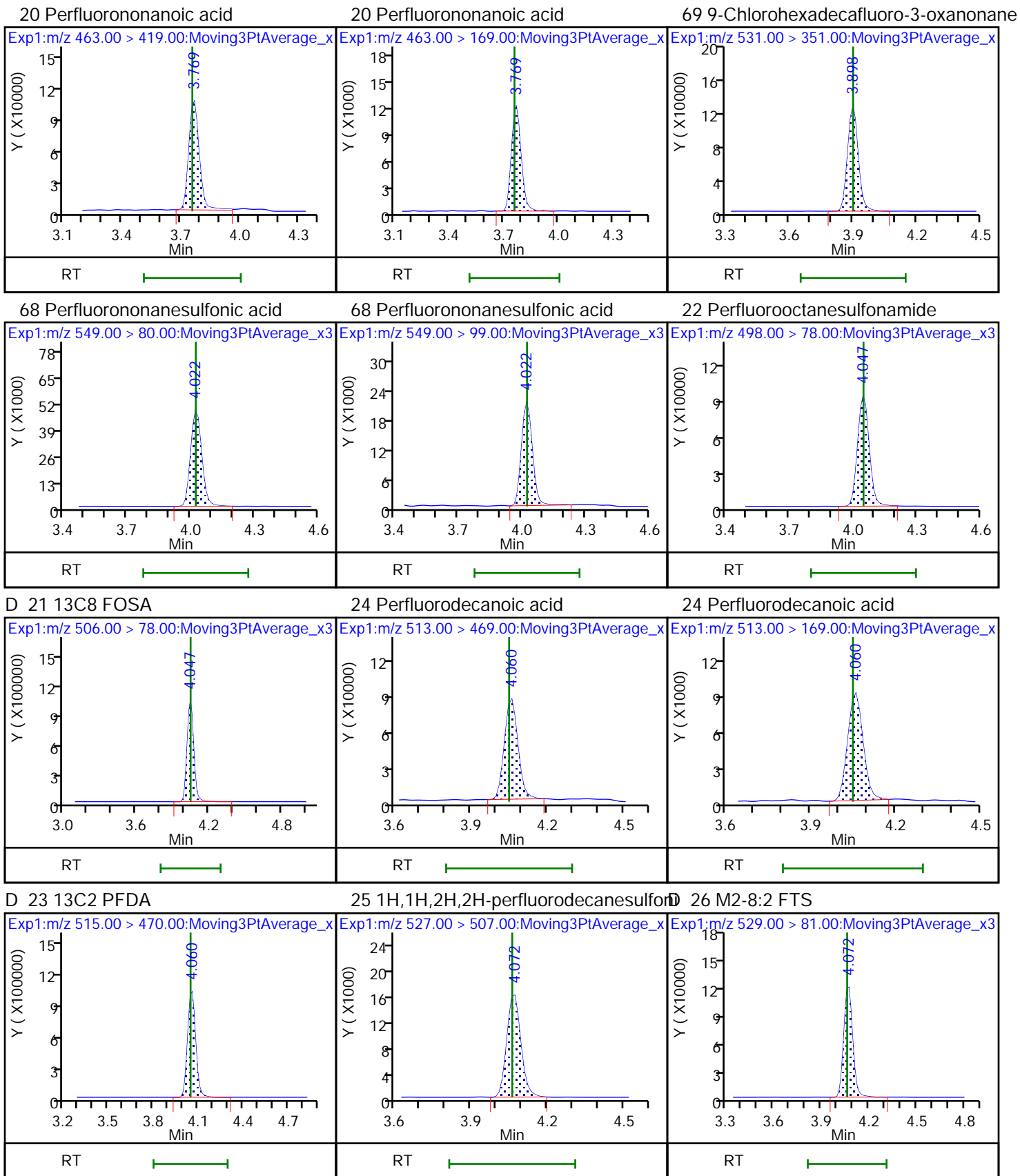
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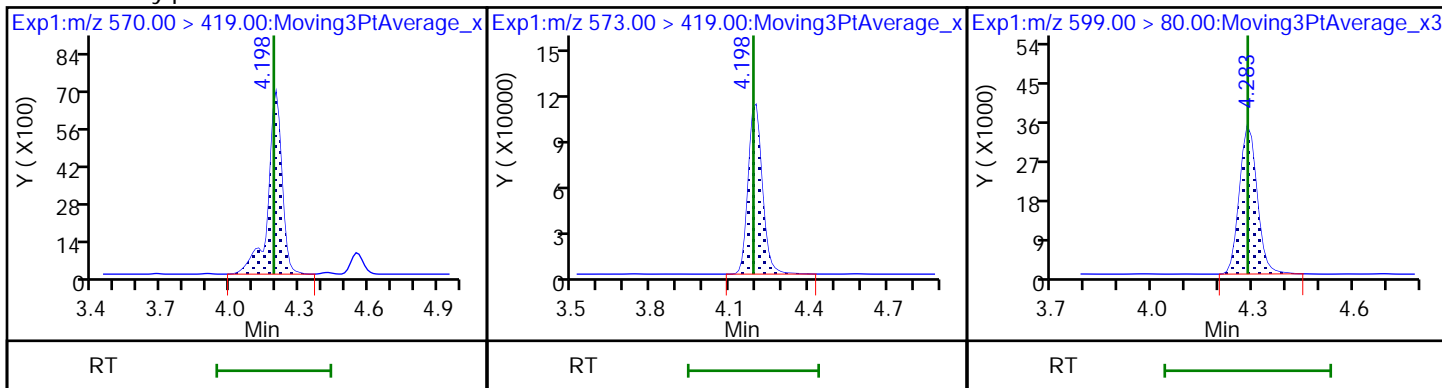






28 N-methylperfluorooctanesulfonamidD 27 d3-NMeFOSAA

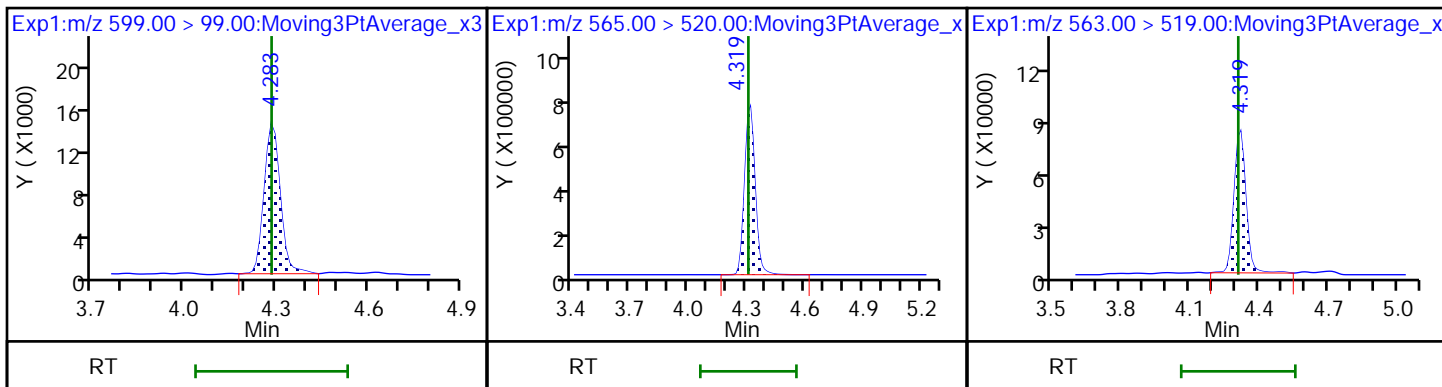
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

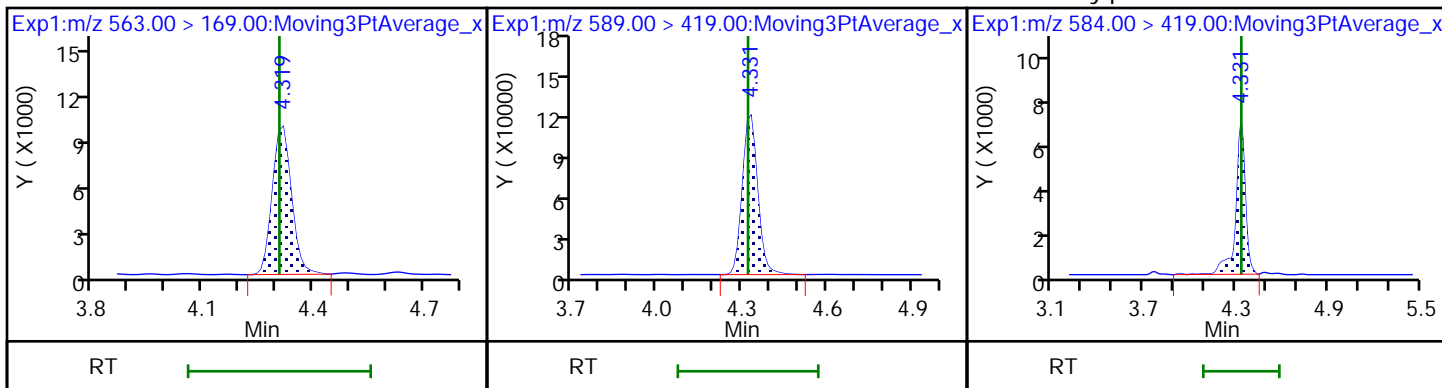
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

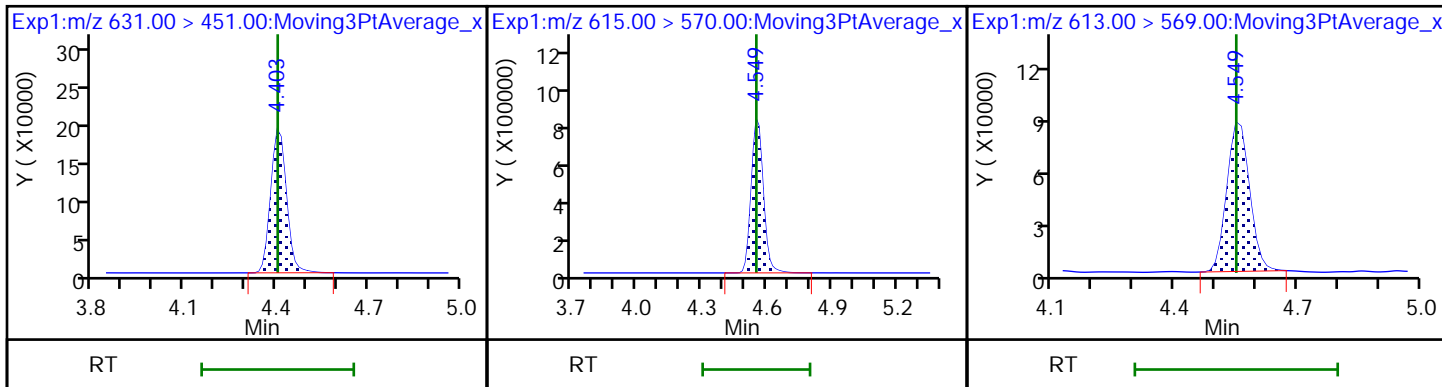
33 N-ethylperfluorooctanesulfonamidoa



66 11-Chloroeicosafluoro-3-oxaundecaD

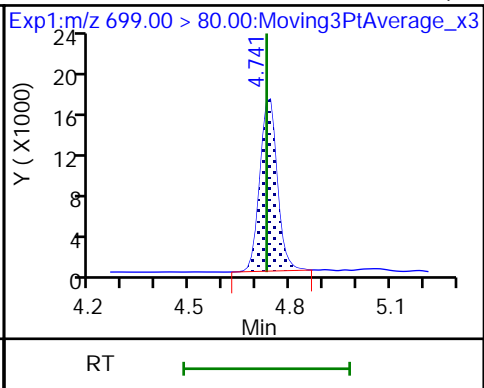
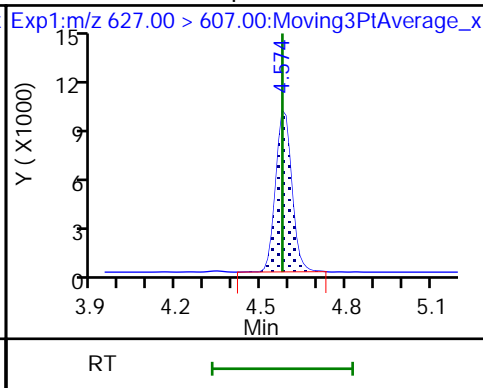
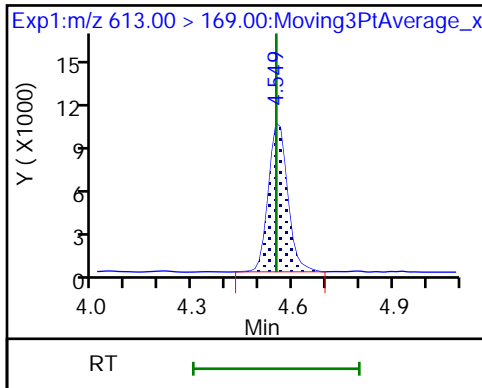
36 13C2 PFDoA

37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

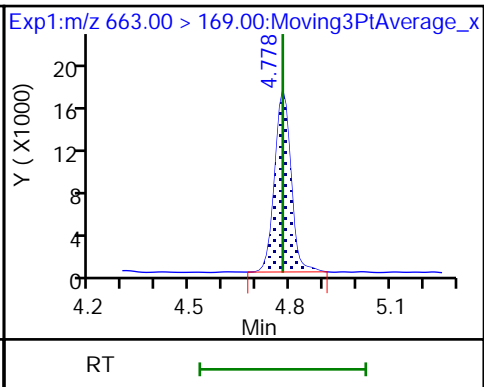
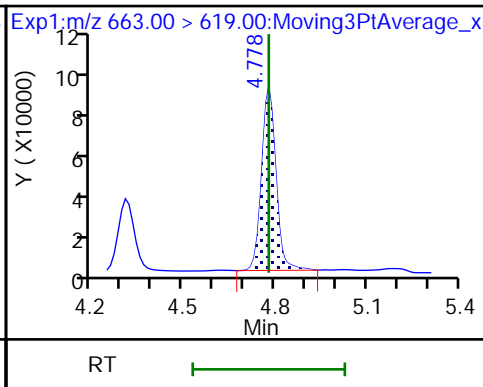
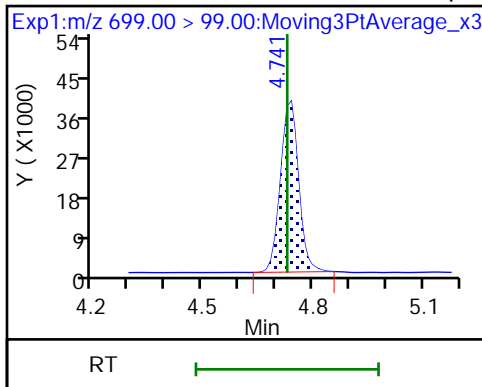
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

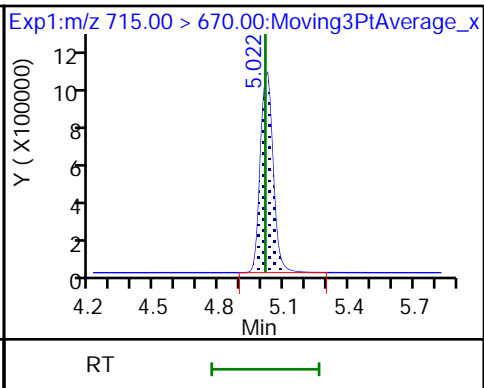
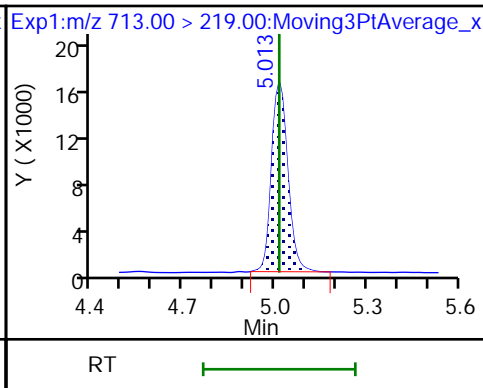
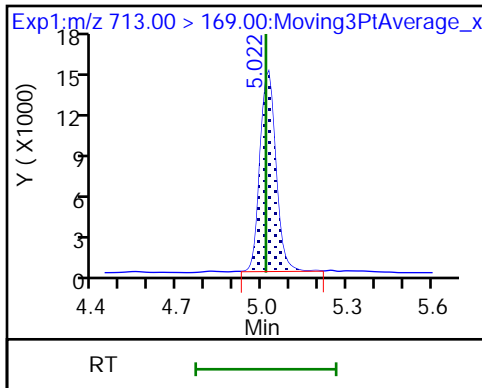
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

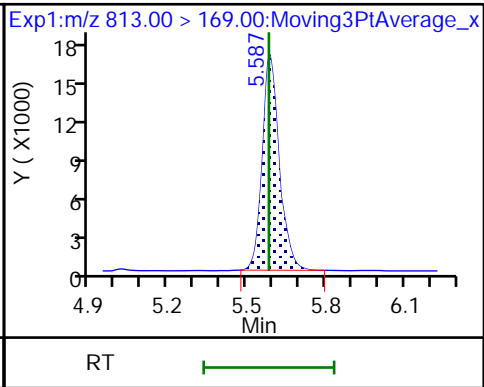
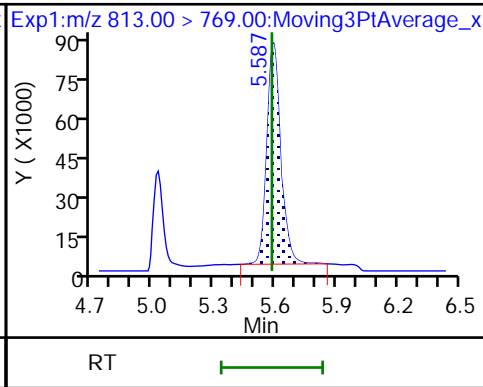
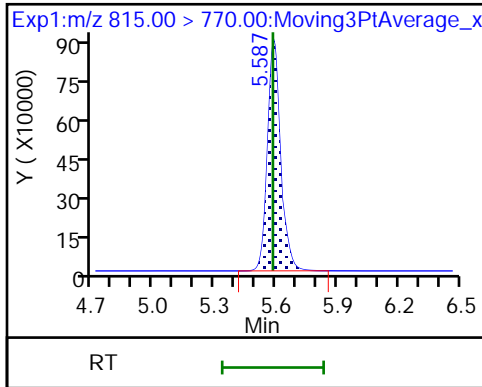
D 43 13C2 PFTeDA



D 44 13C2 PFHxDA

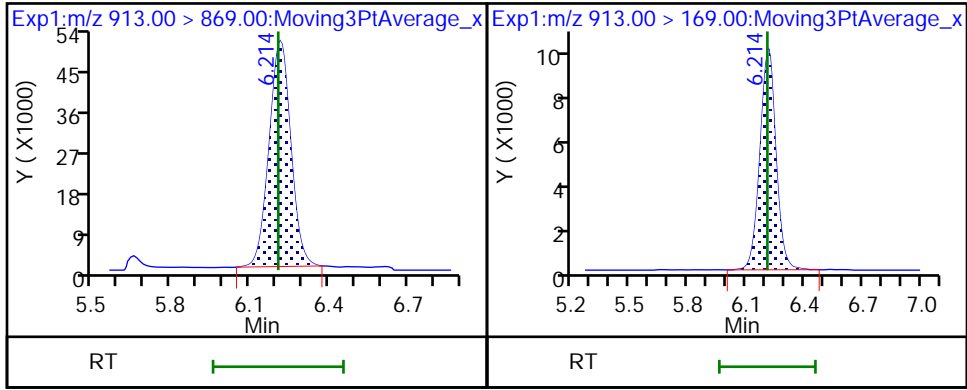
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A020.d  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 4  
 Inject. Date: 26-Jul-2019 11:18:18 ALS Bottle#: 6 Worklist Smp#: 20  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC4  
 Misc. Info.: 200-0036970-020 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 29-Jul-2019 17:49:33 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0306

First Level Reviewer: chirgwinb Date: 26-Jul-2019 13:40:26

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.754	1.754	0.0	1.000	1729812	20.1		101	143	
D 1 13C4 PFBA										
217.00 > 172.00	1.754	1.754	0.0	0.510	4664130	46.9		93.9	10272	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.183	2.183	0.0	1.000	1735050	20.3		101	83.4	
D 3 13C5 PFPeA										
267.90 > 223.00	2.183	2.183	0.0	0.635	4425810	47.4		94.8	6656	
D 47 13C3 PFBS										
301.90 > 80.00	2.211	2.211	0.0	0.643	3985512	43.5		93.5	767179	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.211	2.211	0.0	1.000	1582927	18.2	Target=1.98	103	3932	
298.90 > 99.00	2.211	2.211	0.0	1.000	833086		1.90(0.99-2.97)	103	651	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.583	2.583	0.0	1.000	359555	18.5		99.2	1607	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.583	2.583	0.0	0.751	379441	42.8		91.6	389	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.633	2.633	0.0	1.000	1778549	20.0	Target=12.51	100	501	
313.00 > 119.00	2.633	2.633	0.0	1.000	134447		13.23(6.25-18.76)	100	199	
D 7 13C2 PFHxA										
315.00 > 270.00	2.633	2.633	0.0	0.766	4310528	46.5		93.0	12113	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.646	2.646	0.0	1.197	1415812	18.5	Target=2.77	98.4	3535	
349.00 > 99.00	2.646	2.646	0.0	1.197	518332		2.73(1.38-4.15)	98.4	879	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.766	2.766	0.0	1.000	246656	20.1		101	83.0	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.766	2.766	0.0	0.804	241116	40.5		81.1	1727	
D 11 18O2 PFHxS										
403.00 > 84.00	3.059	3.059	0.0	0.890	2378974	44.3		93.7	15281	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.059	3.059	0.0	1.000	1171156	17.7	Target=3.37	97.1	2372	
399.00 > 99.00	3.059	3.059	0.0	1.000	347354		3.37(1.68-5.05)	97.1	369	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.059	3.059	0.0	1.000	1631009	20.3	Target=3.74	101	183	
363.00 > 169.00	3.070	3.059	0.011	1.003	433240		3.76(1.87-5.62)	101	1545	
D 9 13C4 PFHpA										
367.00 > 322.00	3.059	3.059	0.0	0.890	4298357	47.3		94.7	11881	
77 DONA										
377.00 > 251.00	3.108	3.108	0.0	0.832	3725551	19.2	Target=2.75	102	5885	
377.00 > 85.00	3.108	3.108	0.0	0.832	1371921		2.72(1.37-4.12)	102	2109	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.419	3.419	0.0	0.915	932564	19.0	Target=4.99	99.5	3242	
449.00 > 99.00	3.419	3.419	0.0	0.915	194351		4.80(2.50-7.49)	99.5	750	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.429	3.429	0.0	1.000	341591	19.1		101	2722	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.429	3.429	0.0	0.997	496068	44.4		93.5	1259	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.439	0.0		5272519	50.0			12876	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.439	3.439	0.0	1.000	1925196	19.5	Target=2.72	97.7	225	
413.00 > 169.00	3.439	3.439	0.0	1.000	678932		2.84(1.36-4.08)	97.7	2164	
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.439	0.0	1.000	4527918	47.2		94.4	13468	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.735	3.735	0.0	1.000	706916	18.3	Target=4.21	98.5	4028	
499.00 > 99.00	3.735	3.735	0.0	1.000	163364		4.33(2.10-6.31)	98.5	332	
D 18 13C4 PFOS										
503.00 > 80.00	3.735	3.735	0.0	1.086	1952787	43.7		91.3	7607	
D 19 13C5 PFNA										
468.00 > 423.00	3.758	3.758	0.0	1.093	4134912	47.3		94.5	17158	
20 Perfluorononanoic acid										
463.00 > 419.00	3.758	3.758	0.0	1.000	1444962	19.3	Target=8.52	96.4	290	
463.00 > 169.00	3.758	3.758	0.0	1.000	177197		8.15(4.26-12.79)	96.4	2505	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.899	3.899	0.0	1.044	1695158	19.1		102	4139	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.024	4.024	0.0	1.077	699858	20.3	Target=2.52	106	4608	
549.00 > 99.00	4.024	4.024	0.0	1.077	289193		2.42(1.26-3.78)	106	445	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.049	4.049	0.0	1.000	1379443	20.0		99.9	3759	
D 21 13C8 FOSA										
506.00 > 78.00	4.049	4.049	0.0	1.177	3780269	47.0		94.1	5950	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.049	4.049	0.0	1.000	1305700	19.6	Target=9.67	97.8	111	
513.00 > 169.00	4.049	4.049	0.0	1.000	136281		9.58(4.83-14.50)	97.8	364	
D 23 13C2 PFDA										
515.00 > 470.00	4.049	4.049	0.0	1.177	3448085	49.3		98.5	23139	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.061	4.061	0.0	1.000	247475	18.6		97.3	3885	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.061	4.061	0.0	1.181	475878	46.2		96.3	1830	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.189	4.189	0.0	1.000	124854	20.2		101	243	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.189	4.189	0.0	1.218	407992	45.6		91.3	1932	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.284	4.284	0.0	1.147	527069	19.5	Target=2.60	101	4976	
599.00 > 99.00	4.284	4.284	0.0	1.147	199655		2.64(1.30-3.90)	101	555	
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.308	0.0	1.253	3031155	47.6		95.1	9865	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.308	4.308	0.0	1.000	970744	18.7	Target=8.30	93.3	225	
563.00 > 169.00	4.308	4.308	0.0	1.000	122095		7.95(4.15-12.45)	93.3	986	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.320	0.0	1.256	472168	47.4		94.8	1507	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.332	4.332	0.0	1.003	118045	19.5		97.7	558	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.404	4.404	0.0	1.179	2709425	20.0		106	11829	
D 36 13C2 PFDoA										
615.00 > 570.00	4.550	4.550	0.0	1.323	3180715	46.4		92.7	5411	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.550	4.550	0.0	1.000	1299068	20.0	Target=7.78	99.9	89.9	
613.00 > 169.00	4.550	4.550	0.0	1.000	173432		7.49(3.89-11.67)	99.9	1434	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.575	4.575	0.0	1.126	156858	18.7		96.8	2473	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.730	4.730	0.0	1.266	254267	19.6	Target=0.49	101	740	
699.00 > 99.00	4.730	4.730	0.0	1.266	504255		0.50(0.25-0.74)	101	2342	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.778	4.778	0.0	1.050	1239569	21.2	Target=5.37	106	92.5	
663.00 > 169.00	4.769	4.778	-0.009	1.048	217268		5.71(2.68-8.05)	106	908	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.013	5.013	0.0	1.000	230029	19.1	Target=1.00	95.6	674	
713.00 > 219.00	5.013	5.013	0.0	1.000	224464		1.02(0.50-1.50)	95.6	1209	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.013	5.013	0.0	1.458	4516809	47.8		95.6	7183	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.583	5.583	0.0	1.623	3632044	43.2		86.4	10945	



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.583	5.583	0.0	1.000	1471103	21.0	Target=5.39	105	69.3	
813.00 > 169.00	5.583	5.583	0.0	1.000	281197		5.23(2.70-8.09)	105	2265	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	6.207	6.207	0.0	1.112	1203266	22.0	Target=5.46	110	265	
913.00 > 169.00	6.200	6.207	-0.007	1.111	214529		5.61(2.73-8.19)	110	1693	

Reagents:

LCPFAS32-L4\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A020.d

Injection Date: 26-Jul-2019 11:18:18

Instrument ID: LC812

Lims ID: ICIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 6

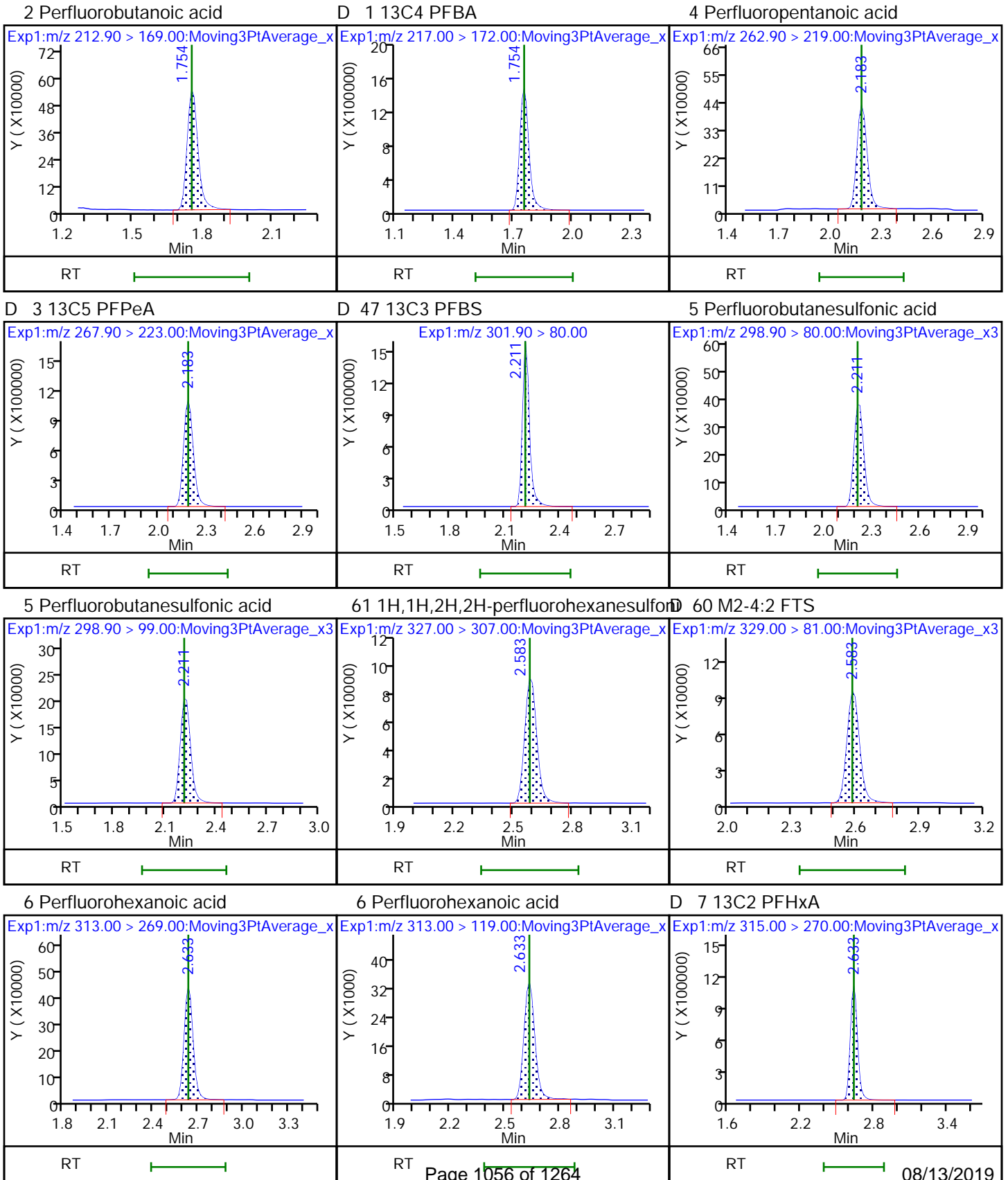
Worklist Smp#: 20

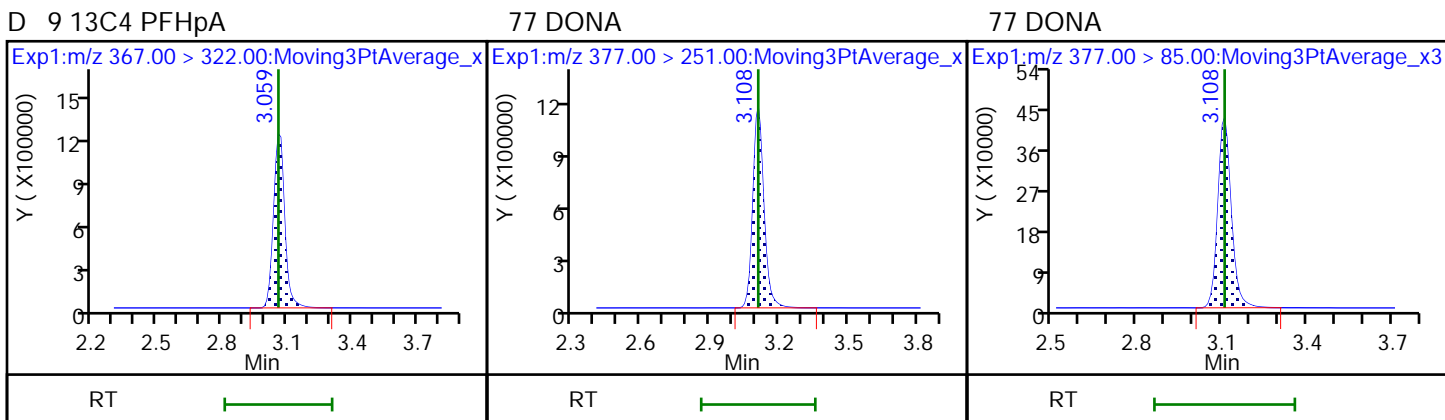
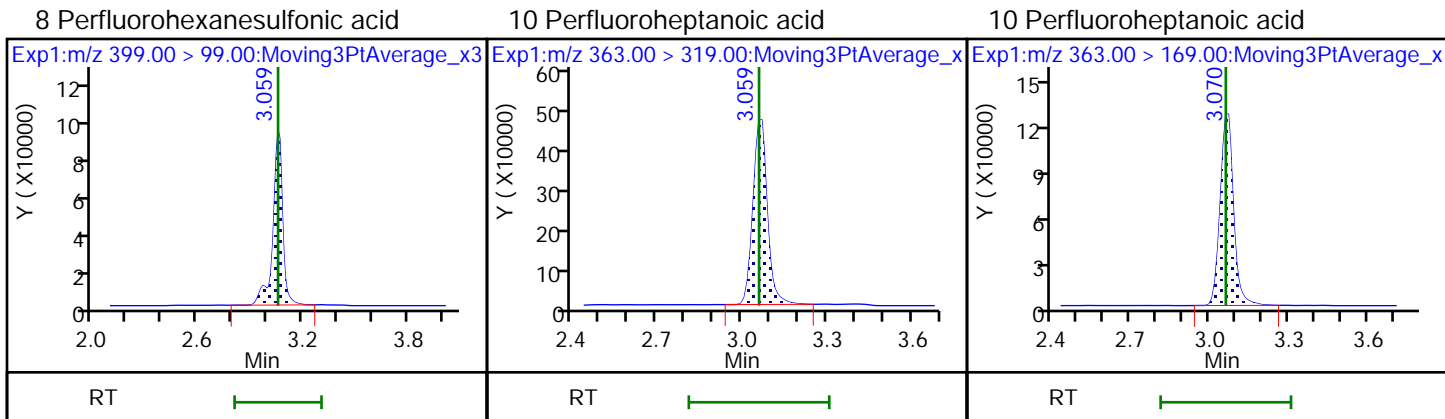
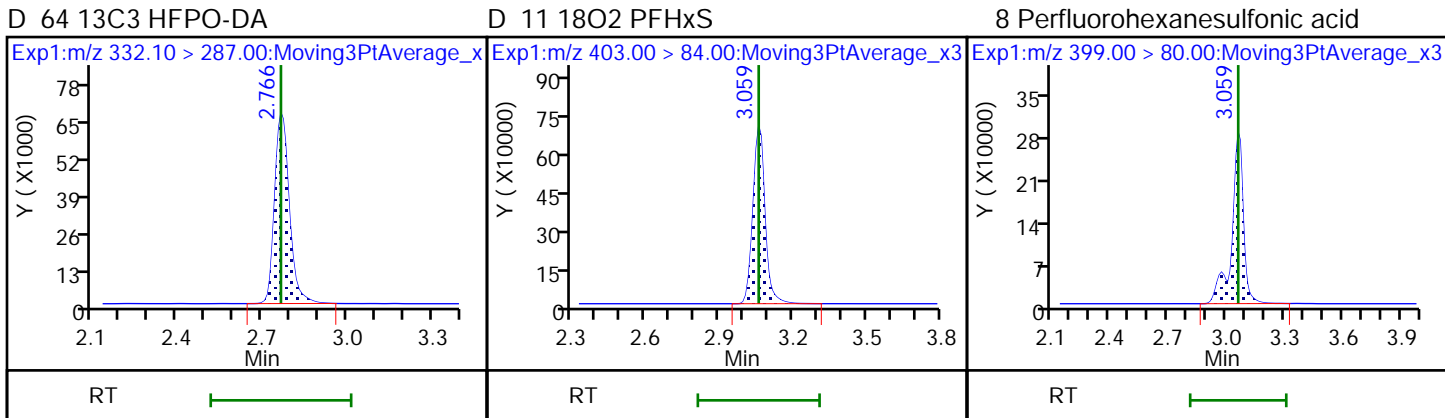
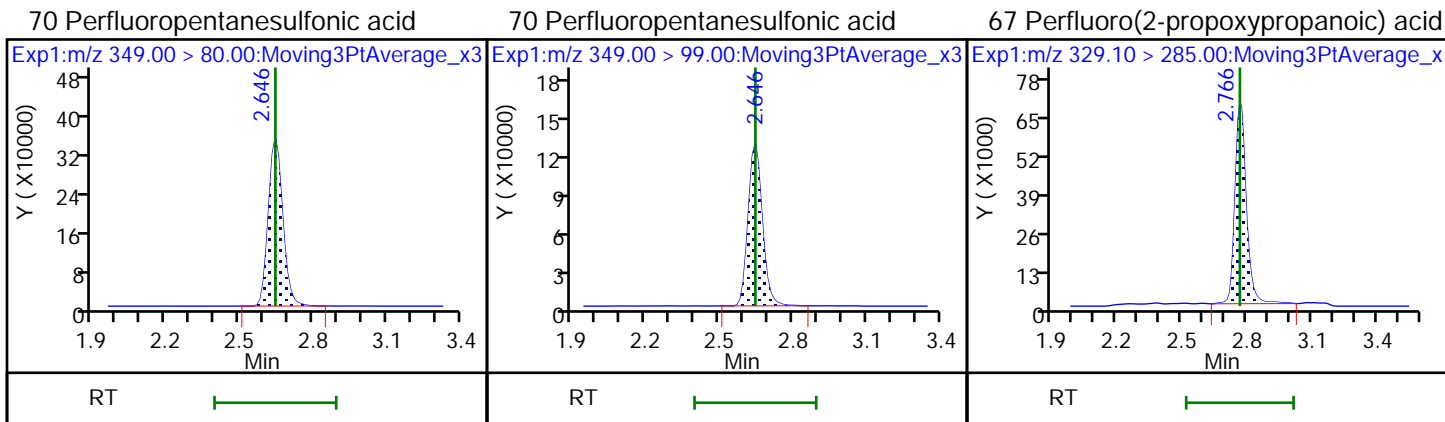
Injection Vol: 2.0 ul

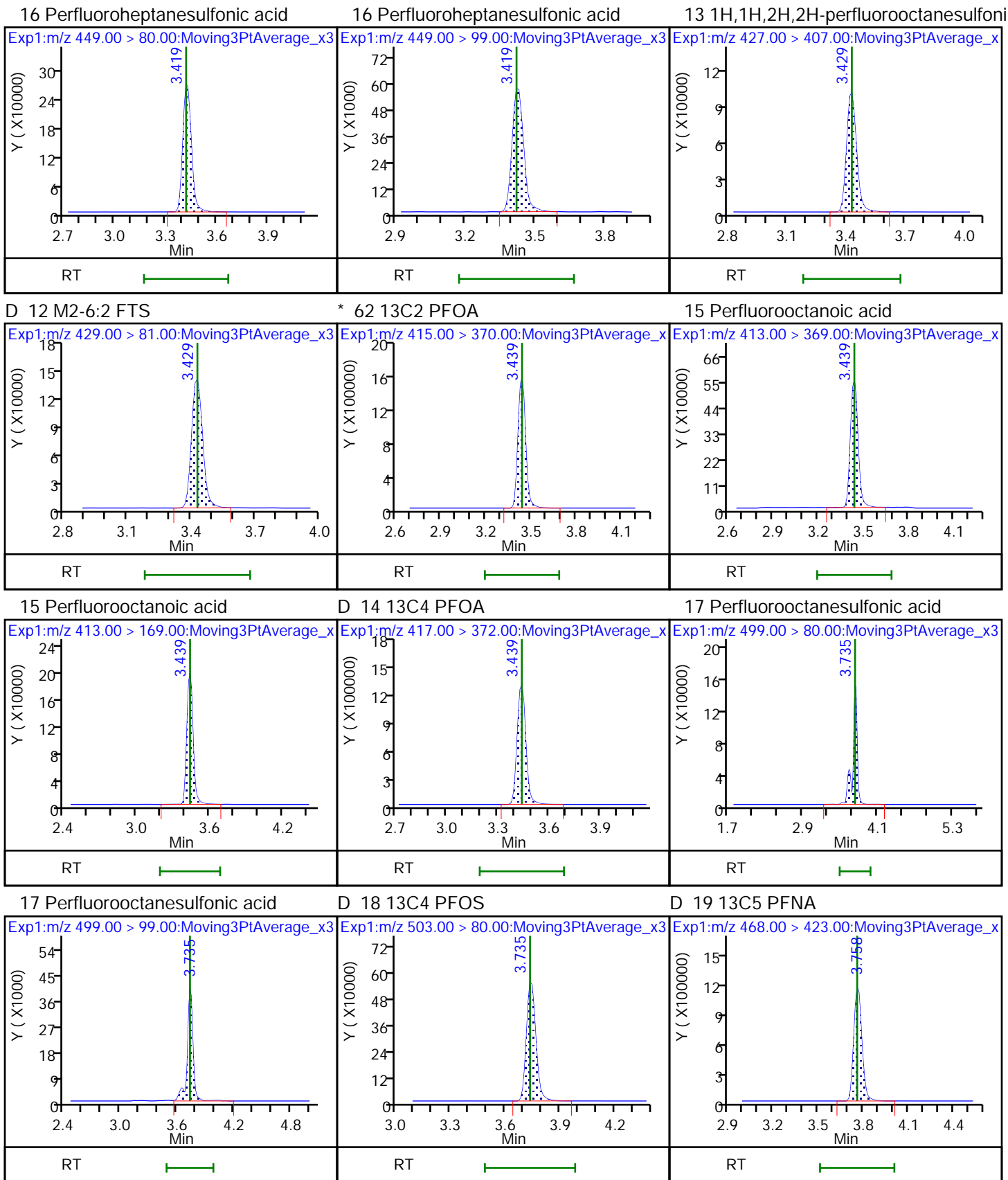
Dil. Factor: 1.0000

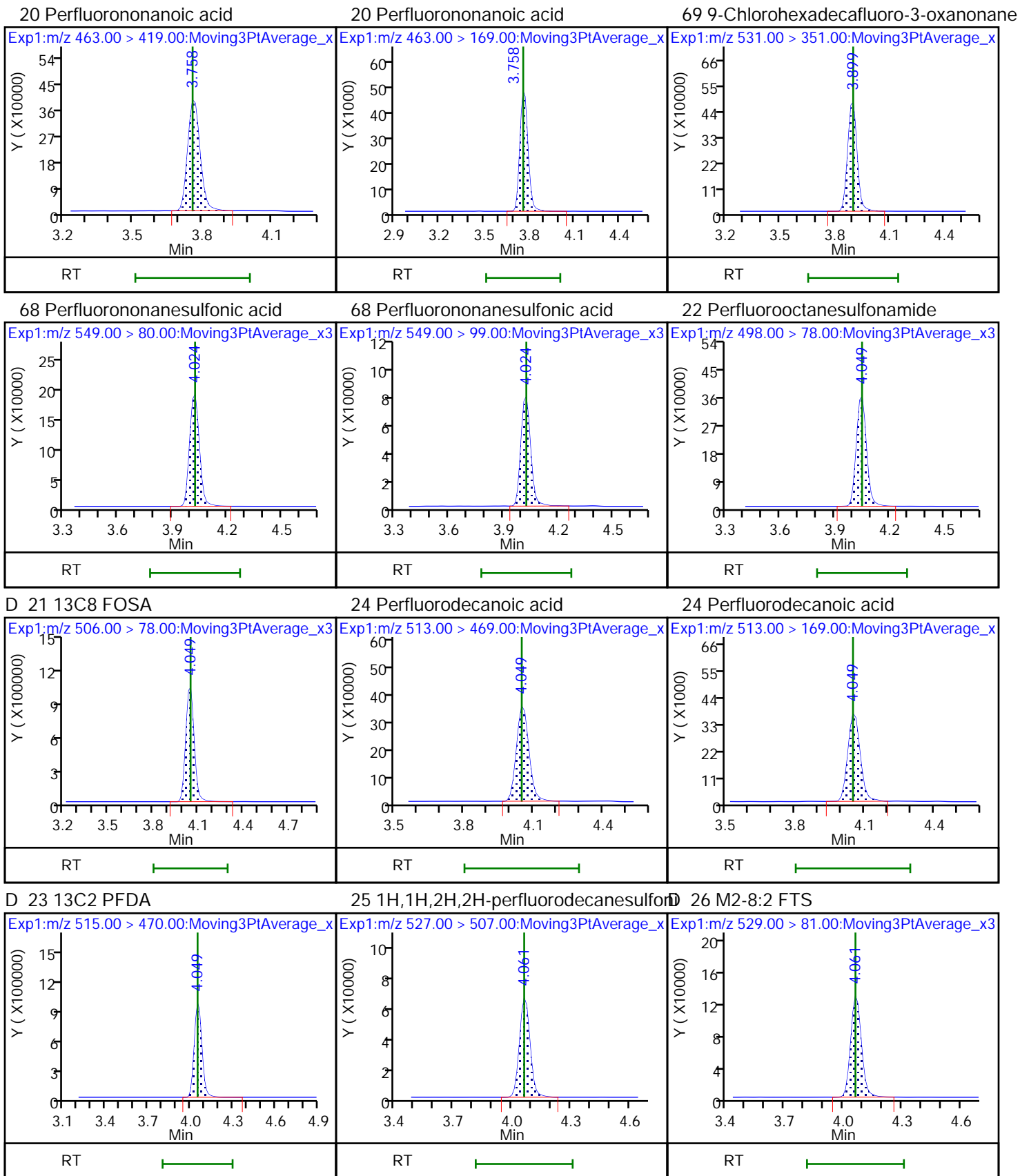
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL



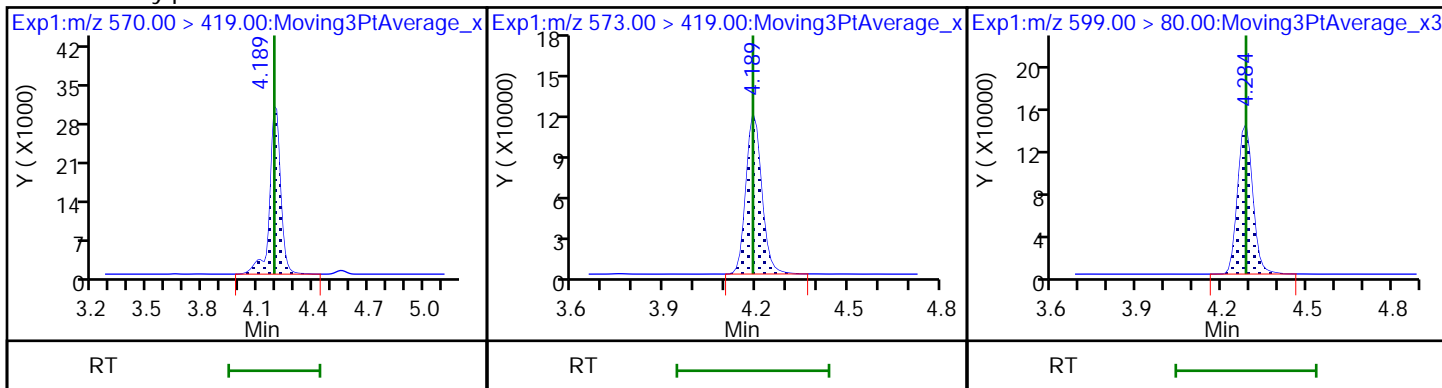






28 N-methylperfluorooctanesulfonamidD 27 d3-NMeFOSAA

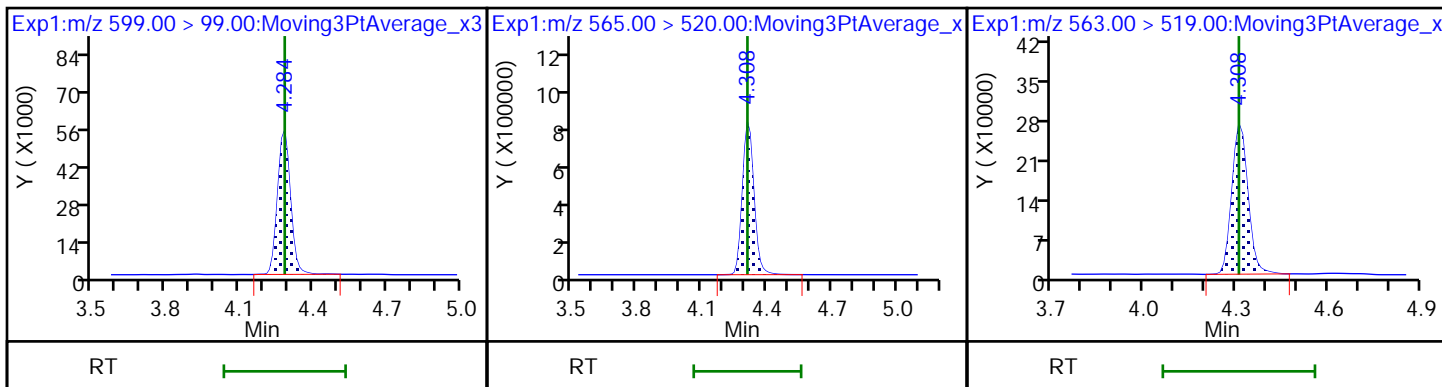
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

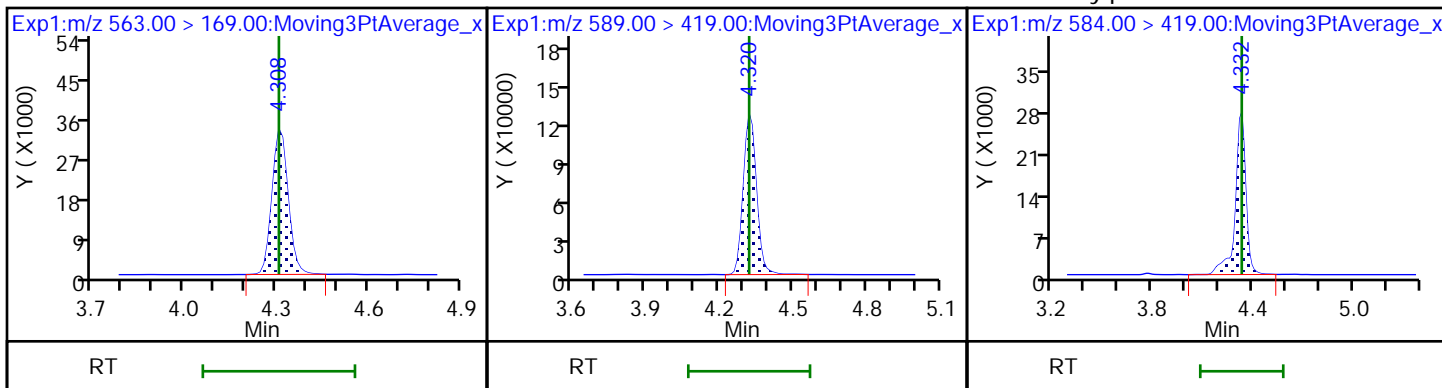
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

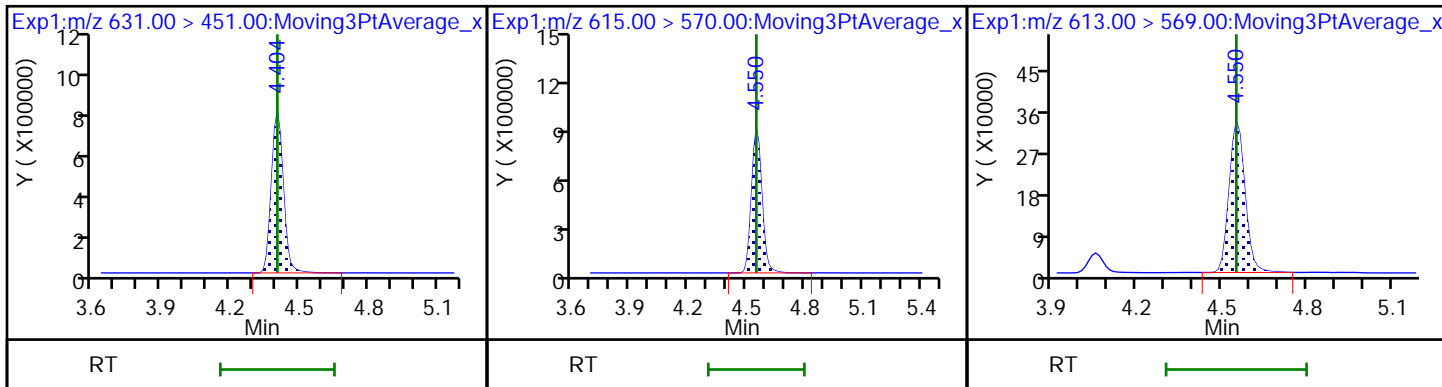
33 N-ethylperfluorooctanesulfonamidoa



66 11-Chloroeicosafluoro-3-oxaundecaD

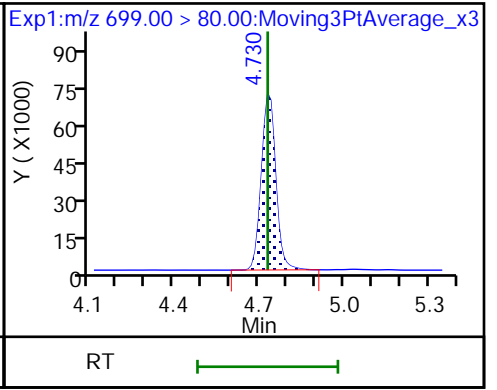
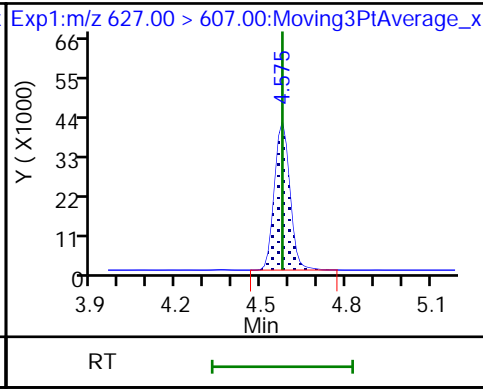
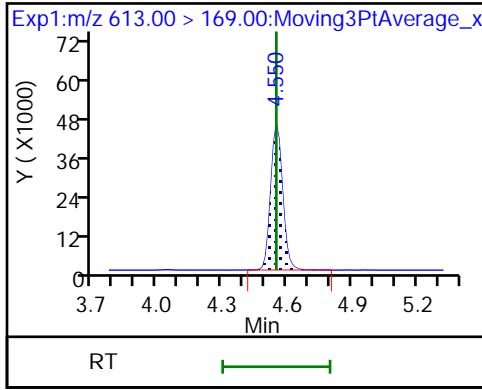
36 13C2 PFDoA

37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

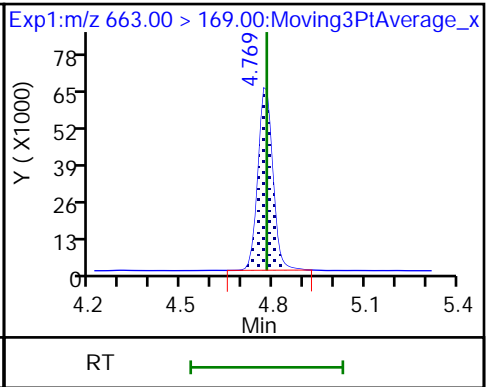
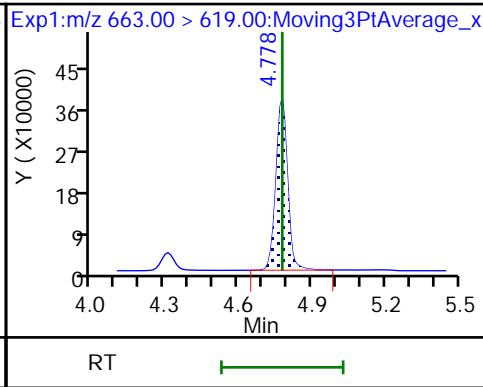
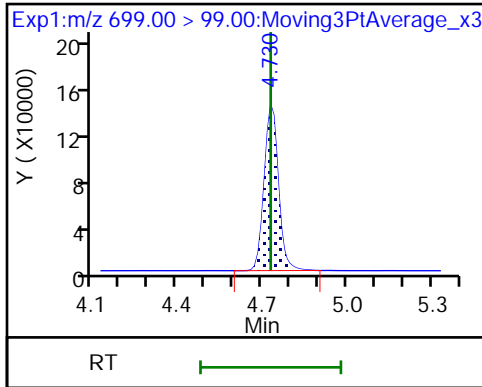
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

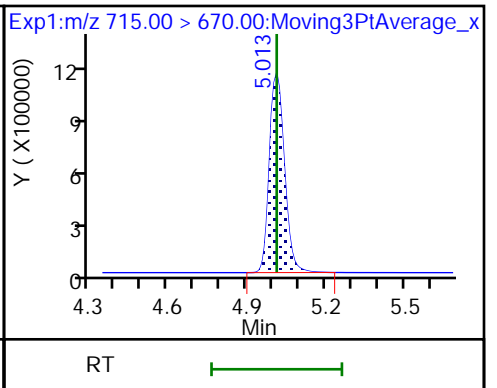
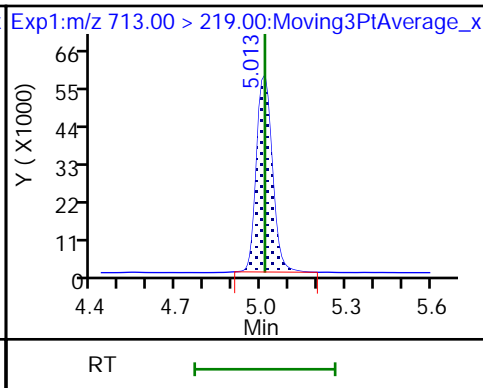
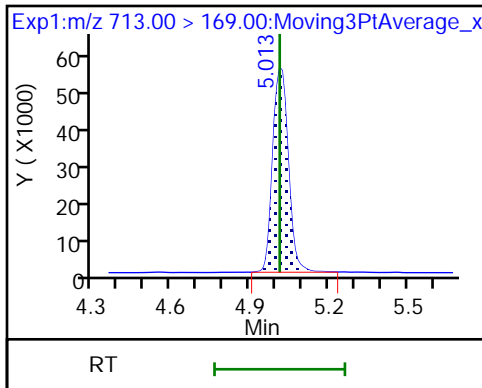
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

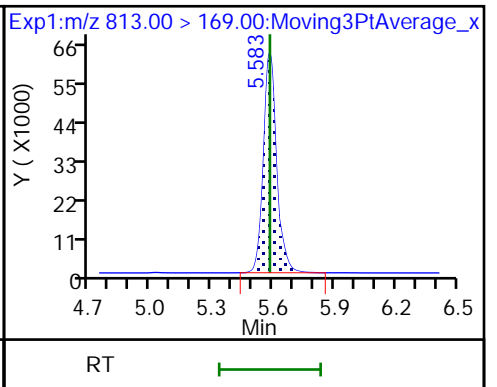
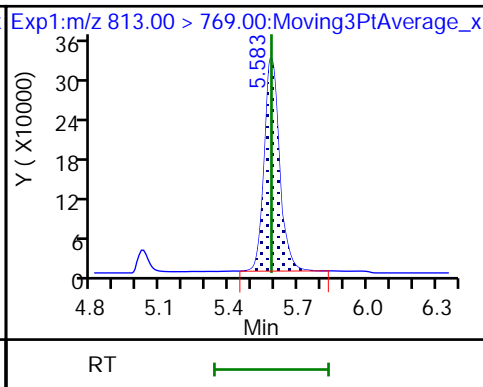
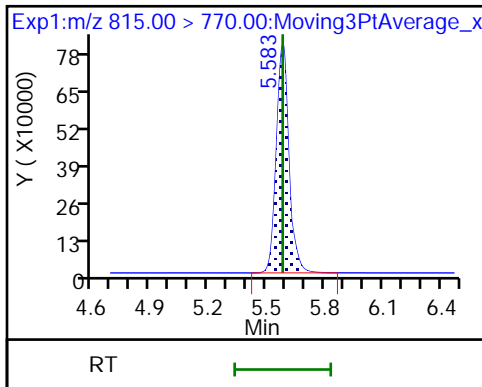
D 43 13C2 PFTeDA



D 44 13C2 PFHxDA

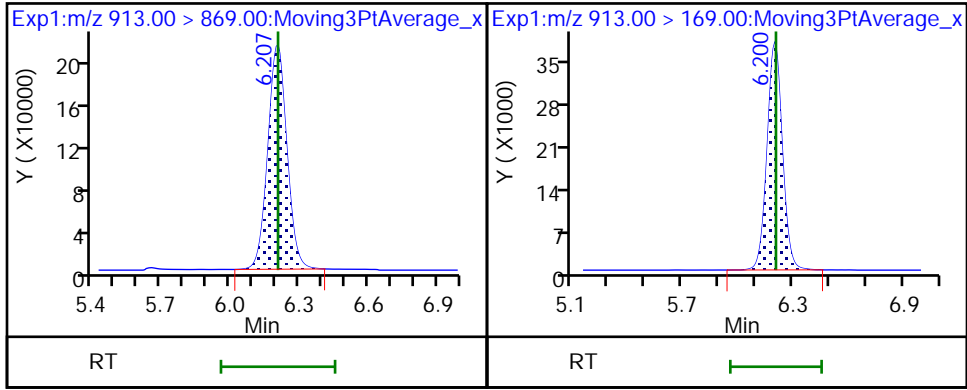
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid





Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A021.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 26-Jul-2019 11:26:20 ALS Bottle#: 7 Worklist Smp#: 21  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC5  
 Misc. Info.: 200-0036970-021 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 29-Jul-2019 17:49:46 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0306

First Level Reviewer: chirgwinb Date: 26-Jul-2019 13:41:17

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.754	1.754	0.0	1.000	4228614	50.8		102	349	
D 1 13C4 PFBA										
217.00 > 172.00	1.754	1.754	0.0	0.511	4518898	59.9		120	9977	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.183	2.183	0.0	1.000	4139546	49.9		99.9	204	
D 3 13C5 PFPeA										
267.90 > 223.00	2.183	2.183	0.0	0.637	4283995	60.5		121	6212	
D 47 13C3 PFBS										
301.90 > 80.00	2.211	2.211	0.0	0.645	3815956	54.9		118	788681	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.211	2.211	0.0	1.000	3719539	44.6	Target=1.98	101	6646	
298.90 > 99.00	2.211	2.211	0.0	1.000	1903371		1.95(0.99-2.97)	101	1517	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.583	2.583	0.0	1.000	917729	44.3		94.8	6548	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.583	2.583	0.0	0.753	405087	60.2		129	359	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.633	2.633	0.0	1.000	4359274	49.4	Target=12.51	98.8	1059	
313.00 > 119.00	2.633	2.633	0.0	1.000	353566		12.33(6.25-18.76)	98.8	515	
D 7 13C2 PFHxA										
315.00 > 270.00	2.633	2.633	0.0	0.768	4285397	60.9		122	8534	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.646	2.646	0.0	1.197	3590630	48.9	Target=2.77	104	13128	
349.00 > 99.00	2.646	2.646	0.0	1.197	1276199		2.81(1.38-4.15)	104	2078	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.766	2.766	0.0	1.003	687657	45.8		91.5	215	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.758	2.766	-0.008	0.804	295558	65.5		131	2196	
D 11 18O2 PFHxS										
403.00 > 84.00	3.059	3.059	0.0	0.892	2314098	56.8		120	9424	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.059	3.059	0.0	1.000	2781849	43.1	Target=3.37	94.8	4214	
399.00 > 99.00	3.059	3.059	0.0	1.000	820245		3.39(1.68-5.05)	94.8	794	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.059	3.059	0.0	1.000	3800723	49.1	Target=3.74	98.1	472	
363.00 > 169.00	3.059	3.059	0.0	1.000	1007011		3.77(1.87-5.62)	98.1	2346	
D 9 13C4 PFHpA										
367.00 > 322.00	3.059	3.059	0.0	0.892	4135183	60.0		120	13976	
77 DONA										
377.00 > 251.00	3.100	3.108	-0.008	0.830	9553035	47.8	Target=2.75	101	17384	
377.00 > 85.00	3.100	3.108	-0.008	0.830	3338184		2.86(1.37-4.12)	101	4424	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.420	3.419	0.001	0.916	2439583	48.1	Target=4.99	101	5490	
449.00 > 99.00	3.420	3.419	0.001	0.916	473300		5.15(2.50-7.49)	101	1823	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.420	3.429	-0.009	1.000	813484	44.8		94.4	6208	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.420	3.429	-0.009	0.997	503377	59.4		125	1266	
* 62 13C2 PFOA										
415.00 > 370.00	3.430	3.439	-0.009		4000524	50.0			13240	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.430	3.439	-0.009	1.000	4778704	49.7	Target=2.72	99.4	640	
413.00 > 169.00	3.430	3.439	-0.009	1.000	1708944		2.80(1.36-4.08)	99.4	4166	
D 14 13C4 PFOA										
417.00 > 372.00	3.430	3.439	-0.009	1.000	4417613	60.7		121	12493	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.734	3.735	-0.001	1.000	1818452	45.7	Target=4.21	98.4	12416	
499.00 > 99.00	3.734	3.735	-0.001	1.000	396428		4.59(2.10-6.31)	98.4	1515	
D 18 13C4 PFOS										
503.00 > 80.00	3.734	3.735	-0.001	1.089	2011380	59.3		124	5599	
D 19 13C5 PFNA										
468.00 > 423.00	3.757	3.758	-0.001	1.095	3935423	59.3		119	29671	
20 Perfluorononanoic acid										
463.00 > 419.00	3.757	3.758	-0.001	1.000	3769472	52.9	Target=8.52	106	775	
463.00 > 169.00	3.757	3.758	-0.001	1.000	444163		8.49(4.26-12.79)	106	3113	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.886	3.899	-0.013	1.041	4493418	49.1		105	10898	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.022	4.024	-0.002	1.077	1607516	45.2	Target=2.52	94.2	8657	
549.00 > 99.00	4.022	4.024	-0.002	1.077	692063		2.32(1.26-3.78)	94.2	1098	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.047	4.049	-0.002	1.000	3437601	50.1		100	5637	
D 21 13C8 FOSA										
506.00 > 78.00	4.047	4.049	-0.002	1.180	3758489	41.6		123	4466	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.047	4.049	-0.002	1.000	3167025	48.5	Target=9.67	97.0	333	
513.00 > 169.00	4.047	4.049	-0.002	1.000	327489		9.67(4.83-14.50)	97.0	876	
D 23 13C2 PFDA										
515.00 > 470.00	4.047	4.049	-0.002	1.180	3371154	63.5		127	16884	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.059	4.061	-0.002	1.000	571112	42.0		87.6	7981	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.059	4.061	-0.002	1.184	487711	62.3		130	1868	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.187	4.189	-0.002	1.000	312259	52.2		104	616	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.189	-0.002	1.221	395443	58.3		117	780	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.283	4.284	-0.001	1.147	1373624	49.3	Target=2.60	102	7224	
599.00 > 99.00	4.283	4.284	-0.001	1.147	518657		2.65(1.30-3.90)	102	1097	
D 30 13C2 PFUnA										
565.00 > 520.00	4.307	4.308	-0.001	1.256	2979973	61.6		123	16223	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.307	4.308	-0.001	1.000	2294835	44.9	Target=8.30	89.7	584	
563.00 > 169.00	4.307	4.308	-0.001	1.000	278910		8.23(4.15-12.45)	89.7	1845	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.320	-0.001	1.259	474055	62.7		125	1343	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.331	4.332	-0.001	1.003	285259	47.0		94.0	753	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.403	4.404	-0.001	1.179	6198405	44.5		94.5	12857	
D 36 13C2 PFDoA										
615.00 > 570.00	4.549	4.550	-0.001	1.326	3207210	61.6		123	6970	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.549	4.550	-0.001	1.000	3310627	50.5	Target=7.78	101	250	
613.00 > 169.00	4.549	4.550	-0.001	1.000	426567		7.76(3.89-11.67)	101	2608	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.574	4.575	-0.001	1.127	386623	44.9		93.1	3174	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.729	4.730	-0.001	1.267	627811	47.0	Target=0.49	97.1	1108	
699.00 > 99.00	4.729	4.730	-0.001	1.267	1216088		0.52(0.25-0.74)	97.1	3310	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.769	4.778	-0.009	1.048	2785171	47.3	Target=5.37	94.6	191	
663.00 > 169.00	4.769	4.778	-0.009	1.048	536192		5.19(2.68-8.05)	94.6	1462	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.012	5.013	-0.001	1.000	590253	49.6	Target=1.00	99.3	2032	
713.00 > 219.00	5.002	5.013	-0.011	0.998	617321		0.96(0.50-1.50)	99.3	3652	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.012	5.013	-0.001	1.461	4466722	62.3		125	8002	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.573	5.583	-0.010	1.625	3799121	59.6		119	11980	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.573	5.583	-0.010	1.000	3600245	49.7	Target=5.39	99.5	169	
813.00 > 169.00	5.573	5.583	-0.010	1.000	684135		5.26(2.70-8.09)	99.5	4515	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	6.192	6.207	-0.015	1.111	2981594	52.2	Target=5.46	104	642	
913.00 > 169.00	6.185	6.207	-0.022	1.110	545165		5.47(2.73-8.19)	104	2696	

Reagents:

LCPFAS32-L5\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A021.d

Injection Date: 26-Jul-2019 11:26:20

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 21

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

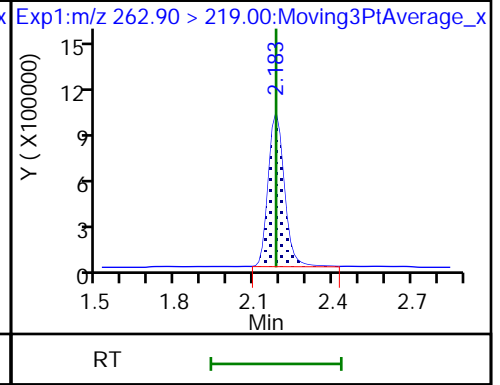
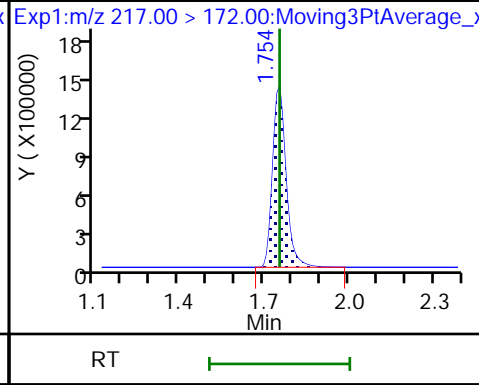
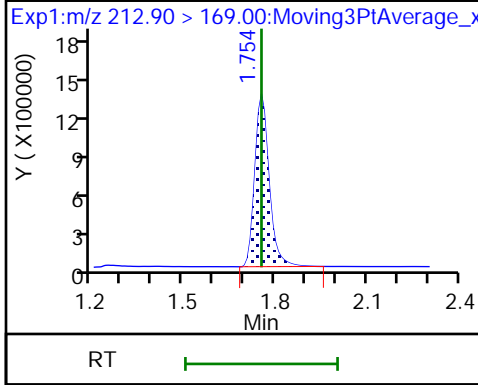
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

2 Perfluorobutanoic acid

D 1 13C4 PFBA

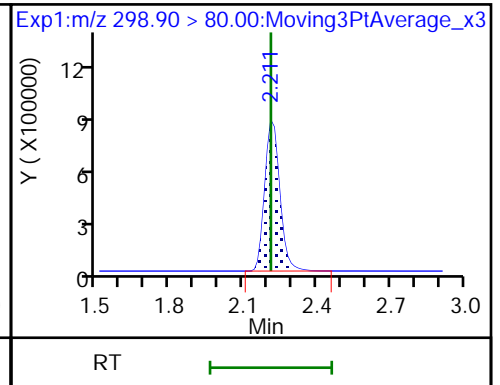
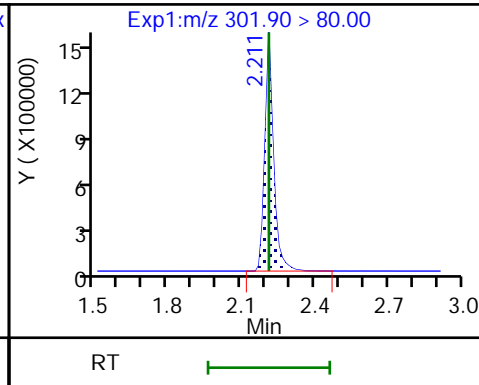
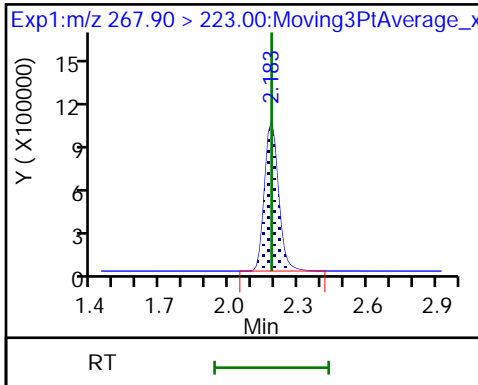
4 Perfluoropentanoic acid



D 3 13C5 PFPeA

D 47 13C3 PFBS

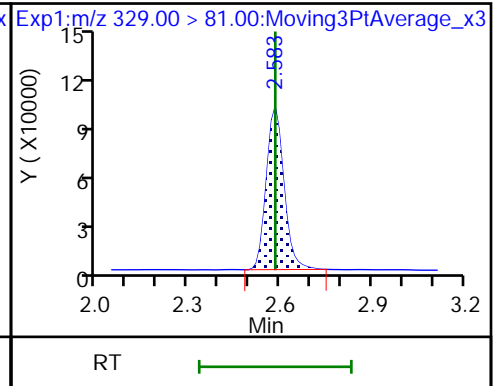
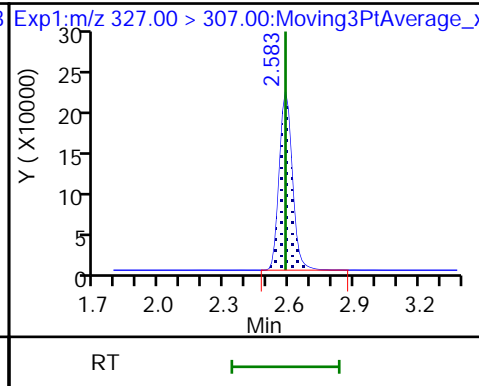
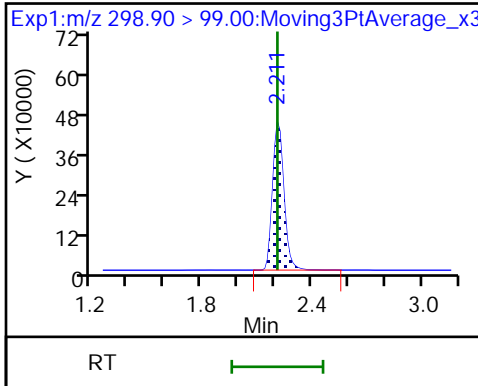
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfonate

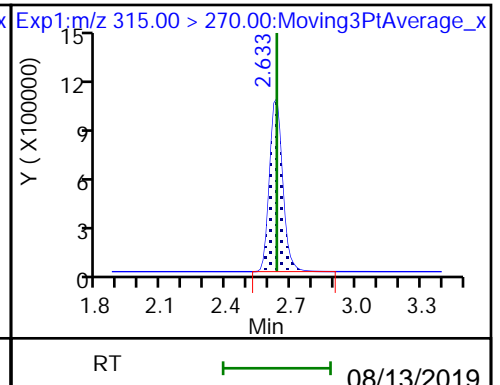
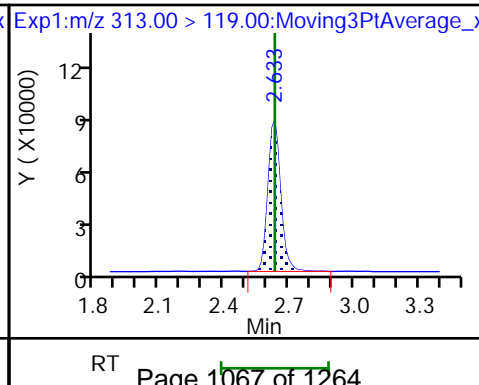
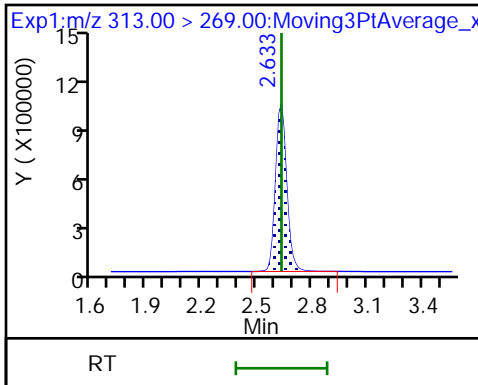
D 60 M2-4:2 FTS

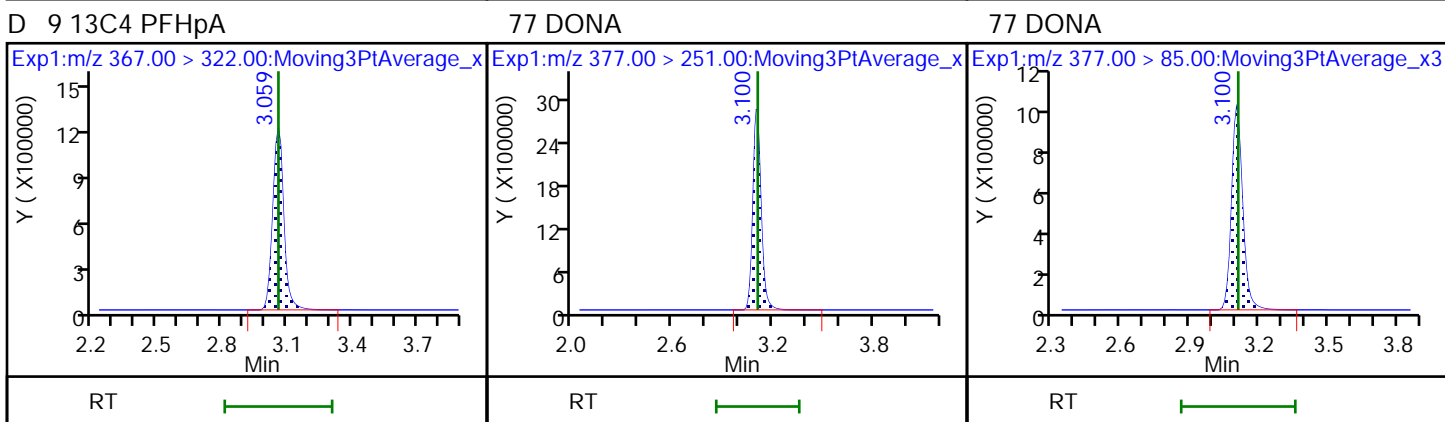
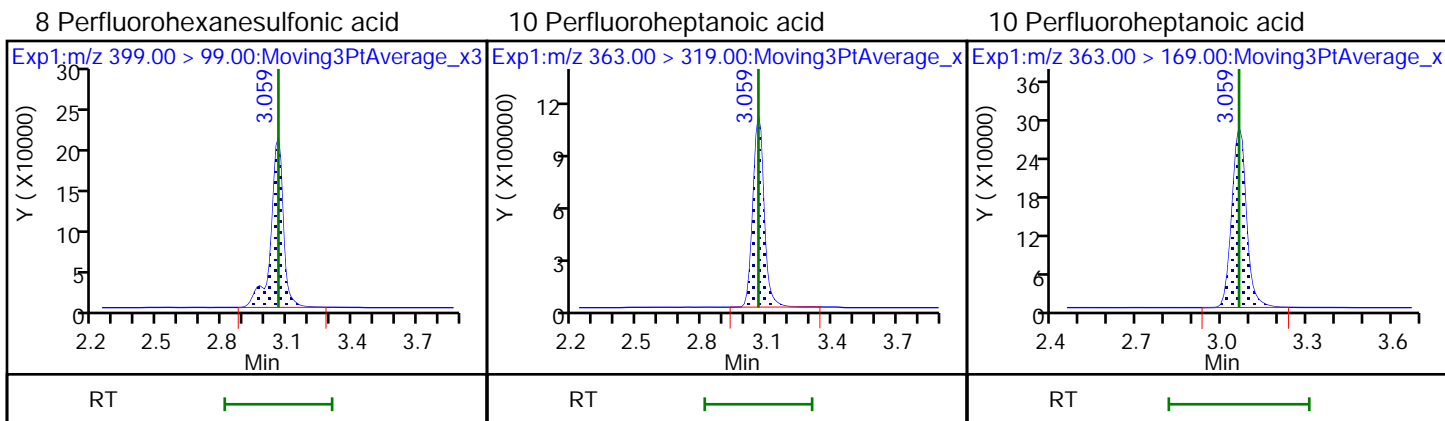
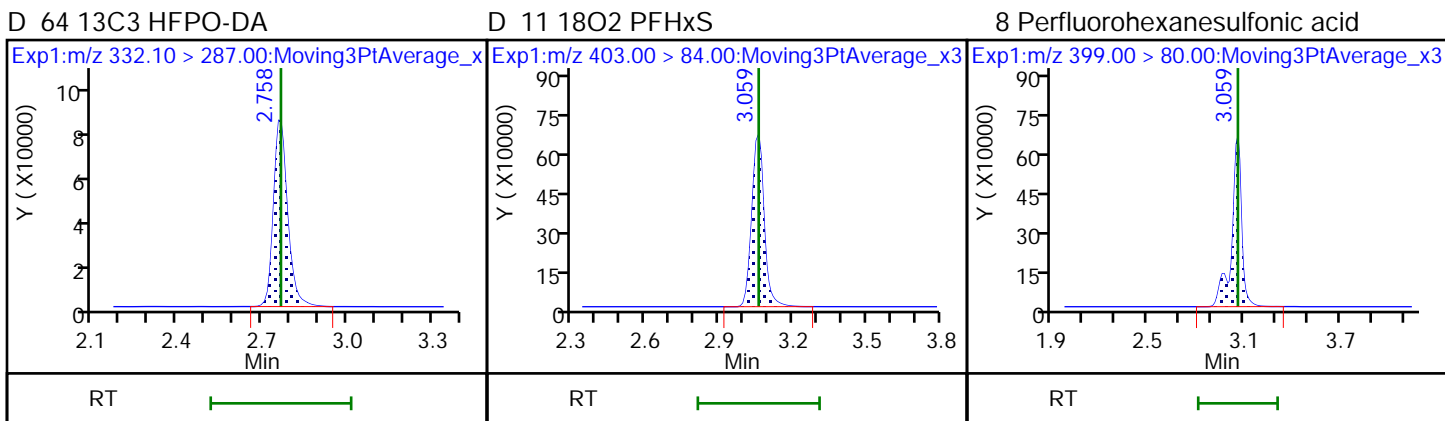
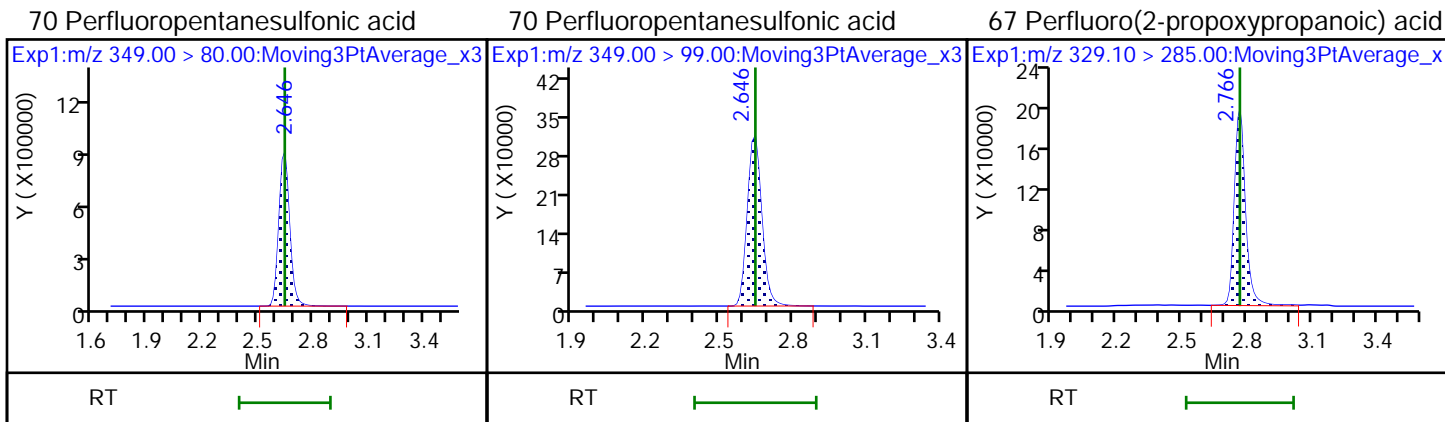


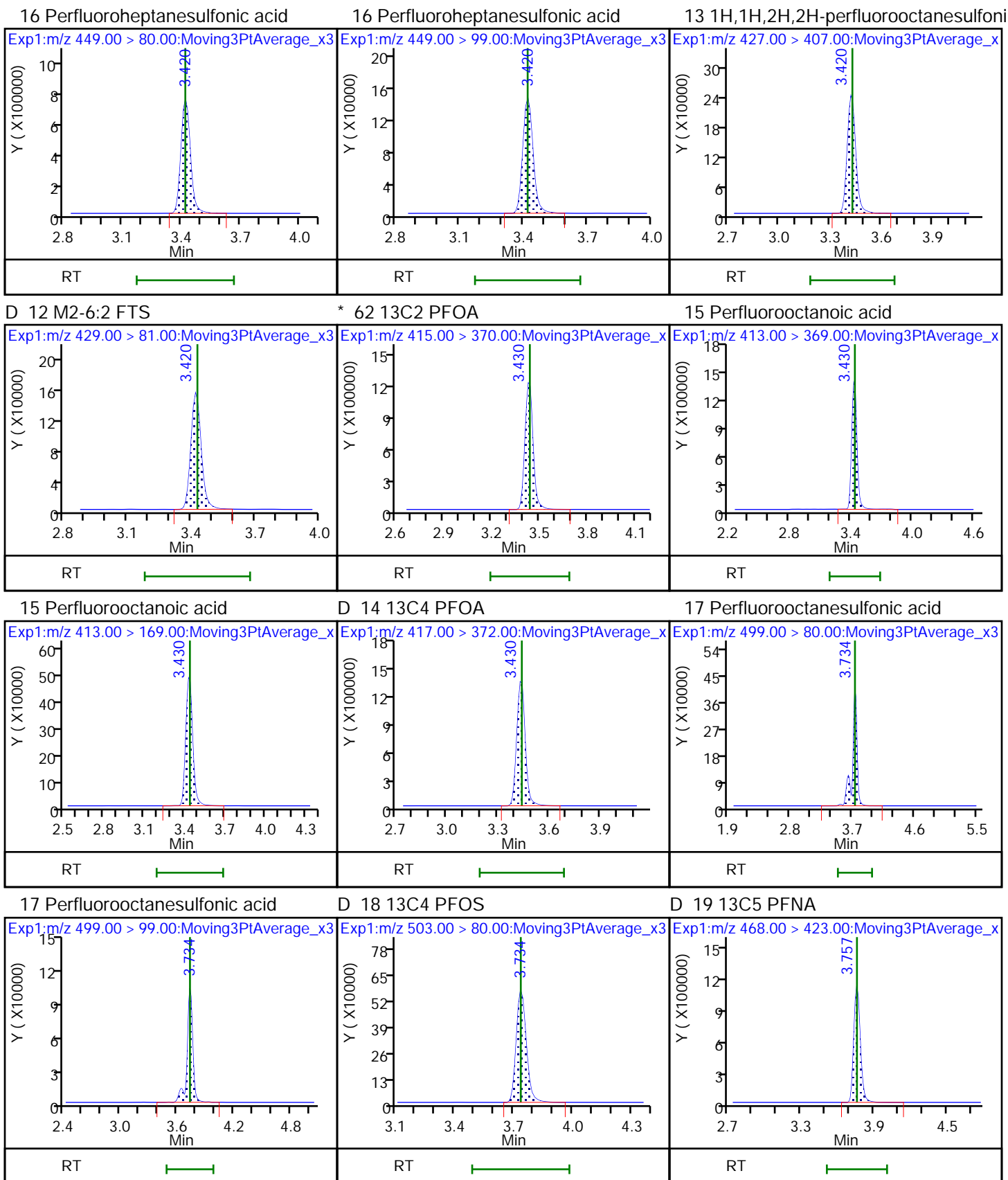
6 Perfluorohexanoic acid

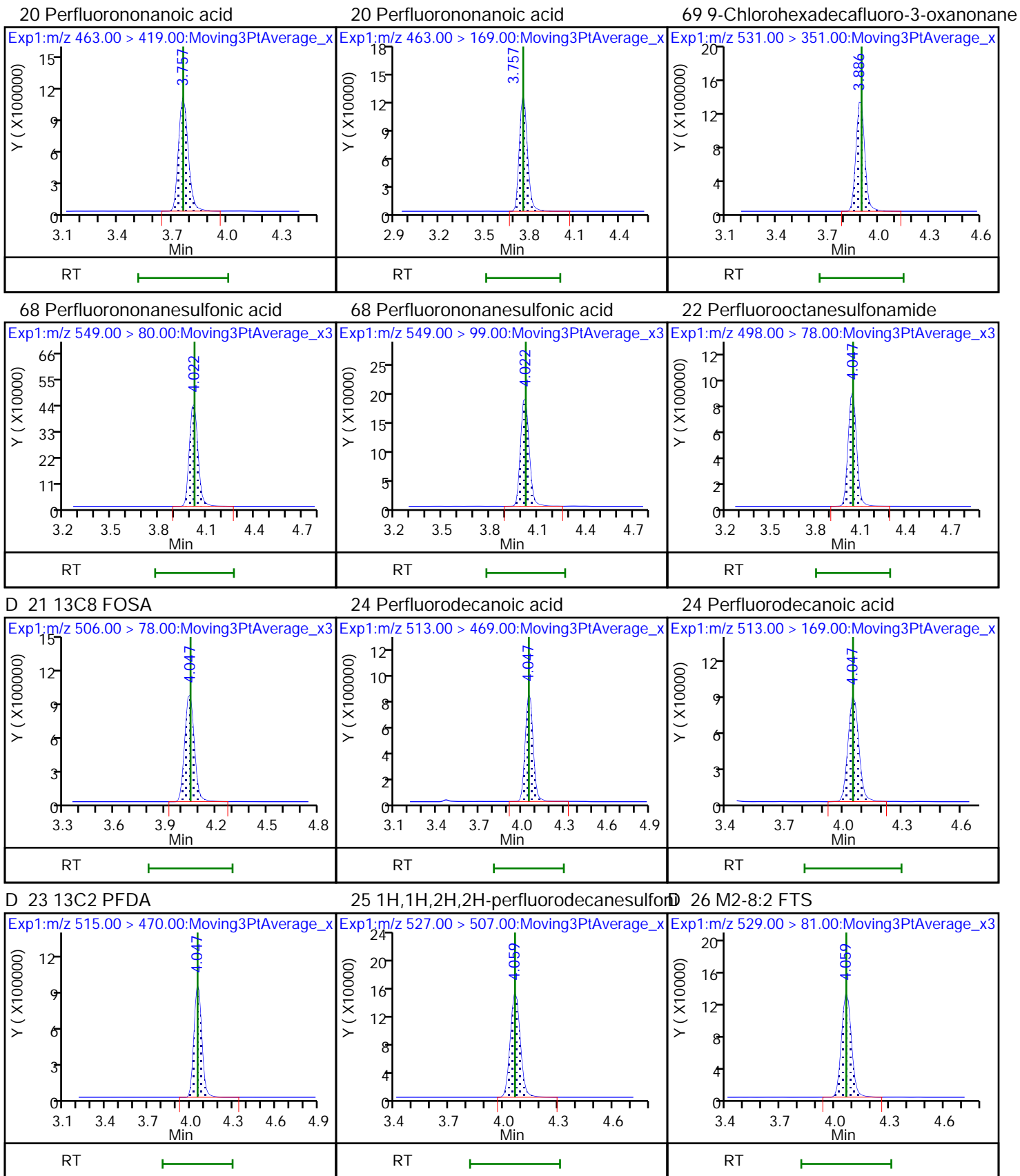
6 Perfluorohexanoic acid

D 7 13C2 PFHxA





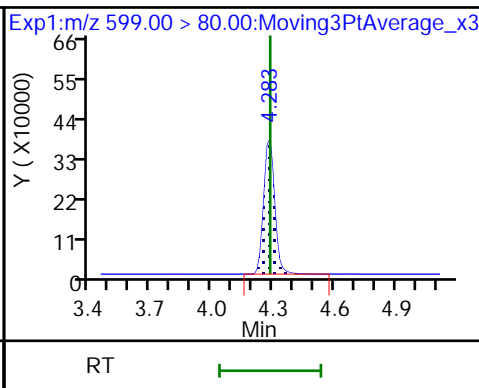
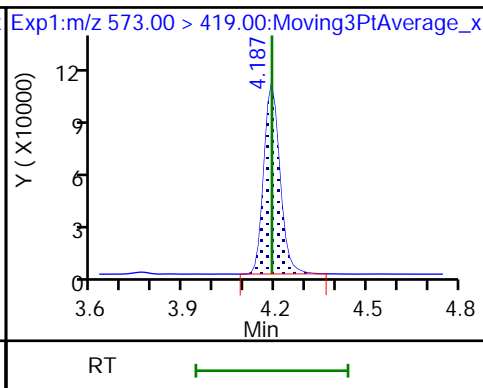
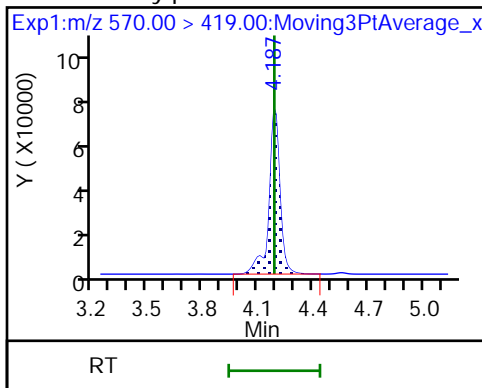






28 N-methylperfluorooctanesulfonamidD 27 d3-NMeFOSAA

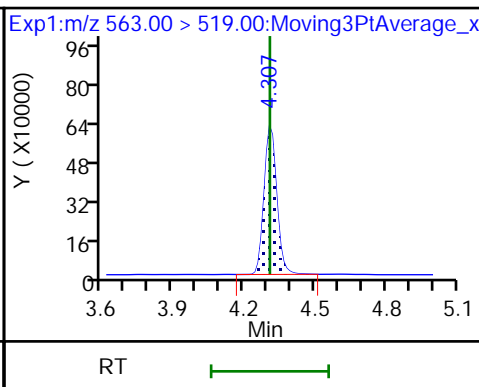
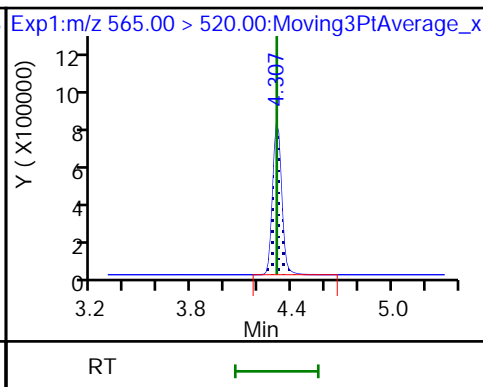
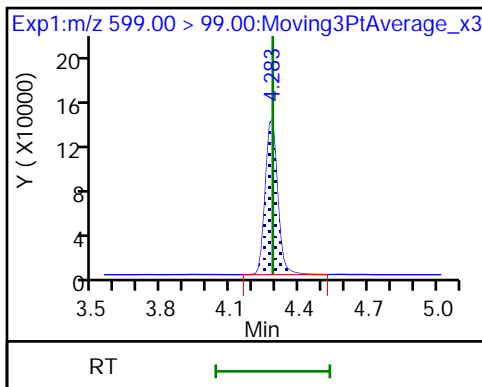
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

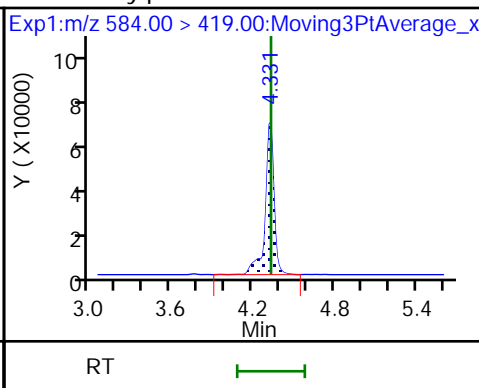
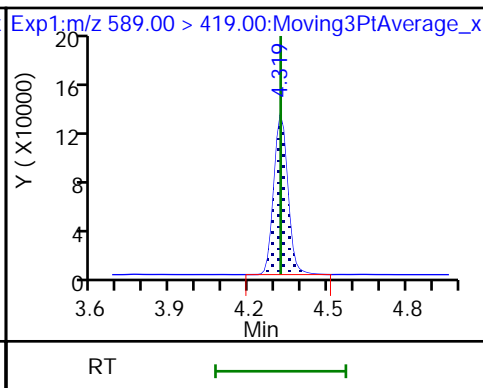
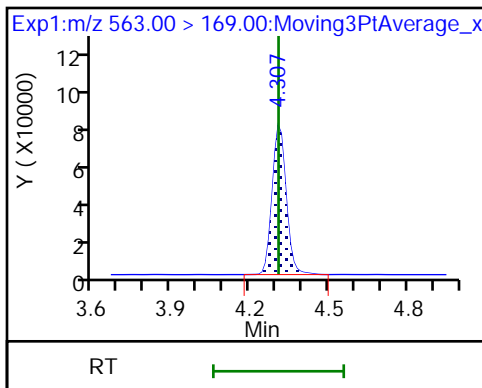
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

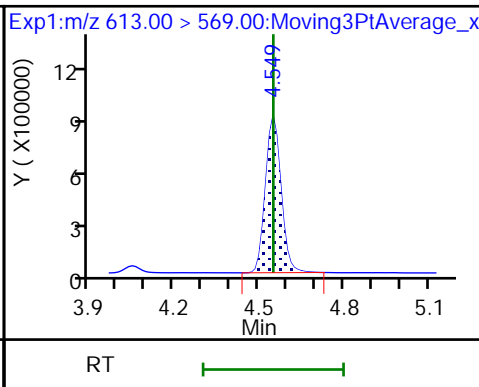
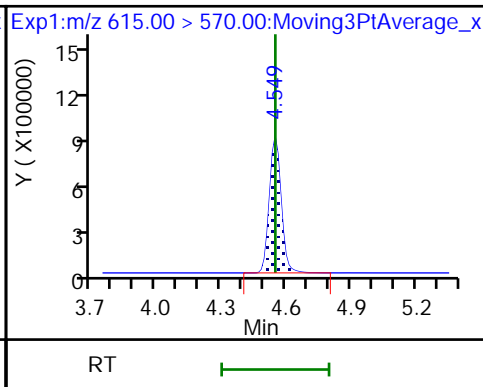
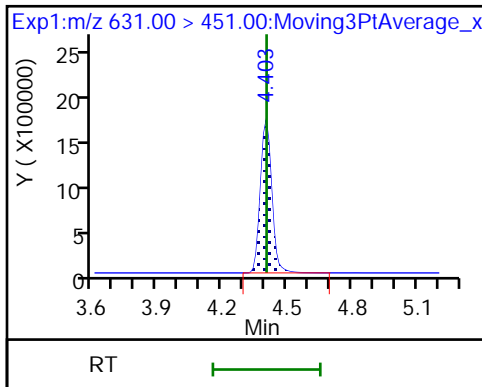
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamidoa



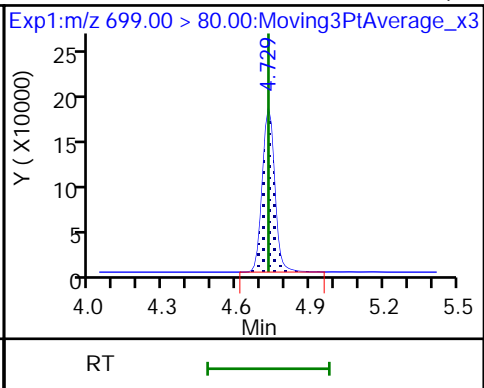
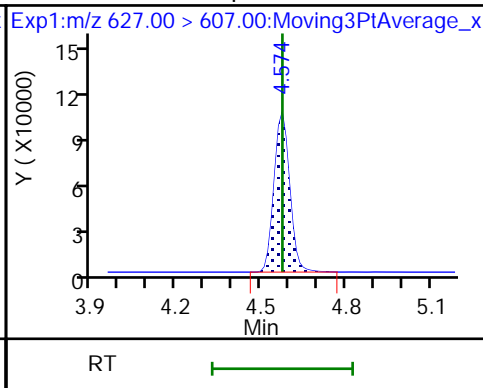
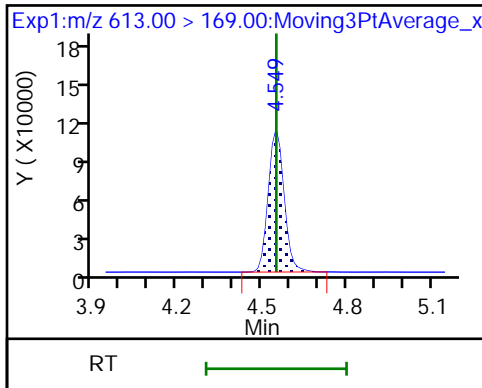
66 11-Chloroeicosafuoro-3-oxaundecaD 36 13C2 PFDoA

37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

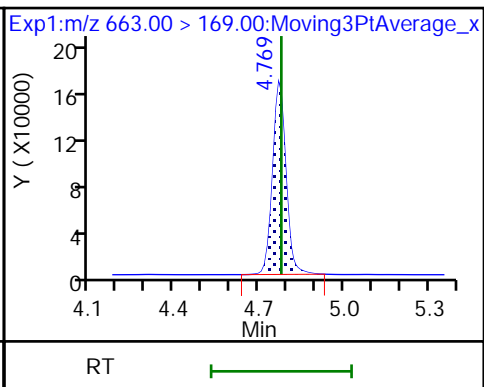
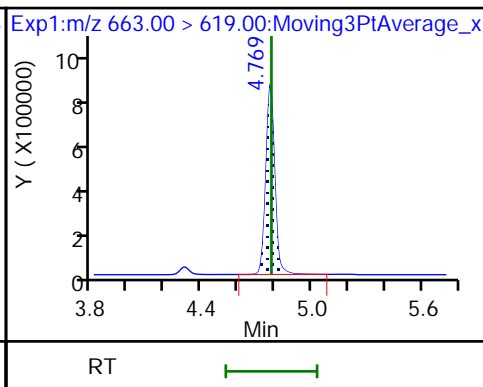
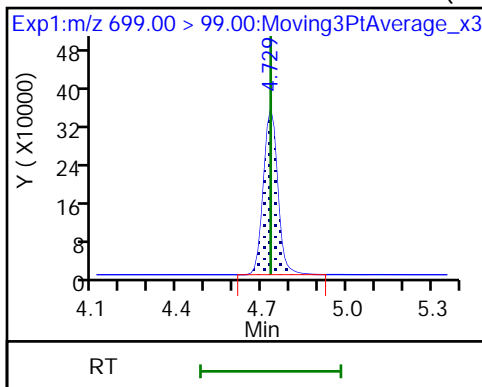
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

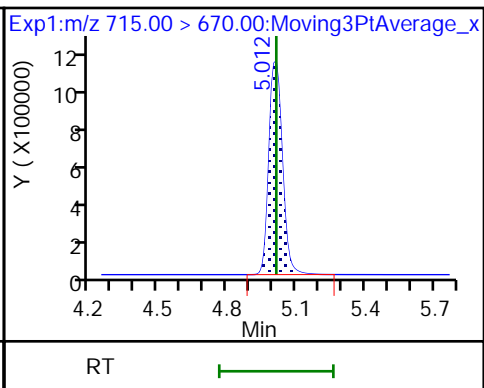
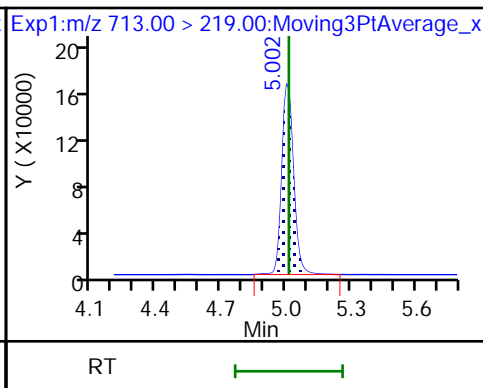
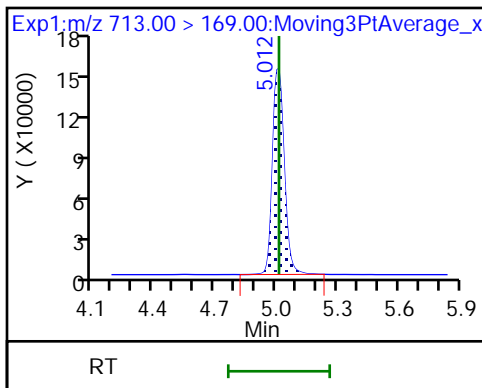
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

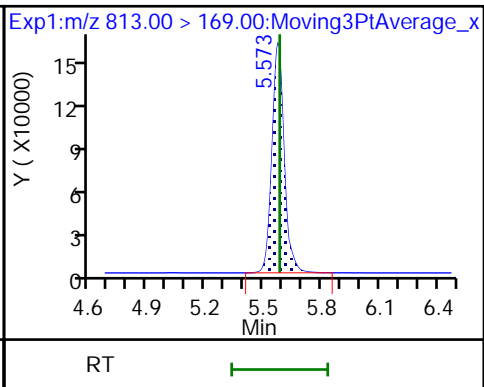
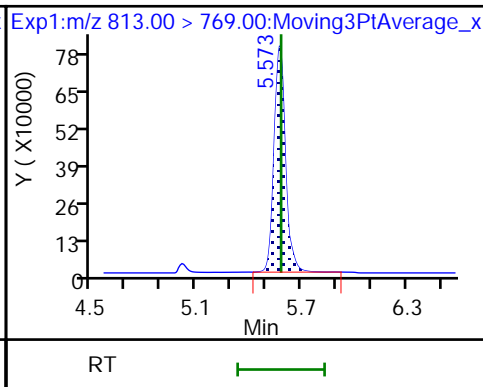
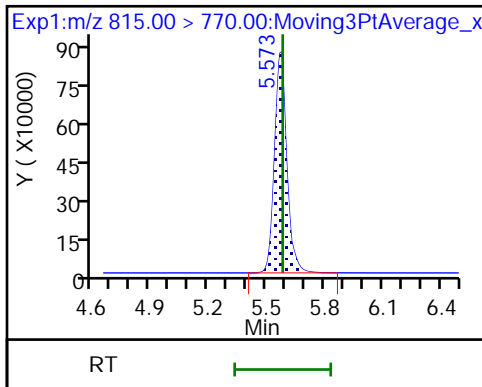
D 43 13C2 PFTeDA



D 44 13C2 PFHxDA

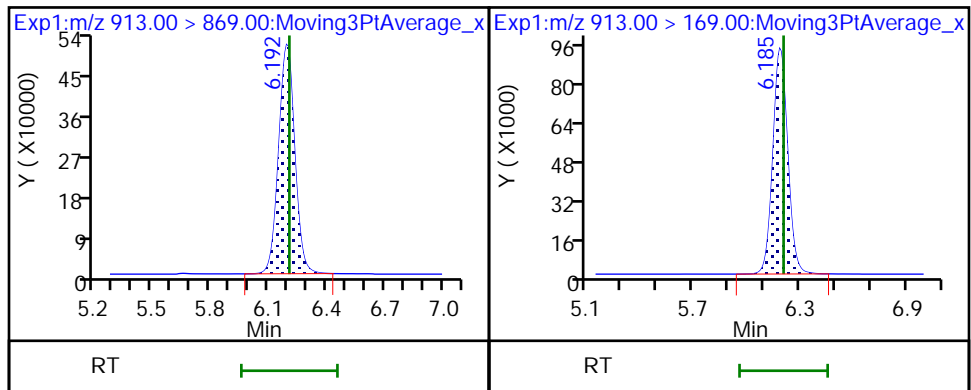
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 26-Jul-2019 11:34:21 ALS Bottle#: 8 Worklist Smp#: 22  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: IC6  
 Misc. Info.: 200-0036970-022 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3

Method: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 29-Jul-2019 17:49:59 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0306

First Level Reviewer: chirgwinb Date: 26-Jul-2019 13:41:50

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.754	1.754	0.0	1.000	16042972	198.3		99.2	1320	
D 1 13C4 PFBA										
217.00 > 172.00	1.754	1.754	0.0	0.510	4388965	53.8		108	9581	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.183	2.183	0.0	1.000	15297007	193.5		96.8	701	
D 3 13C5 PFPeA										
267.90 > 223.00	2.183	2.183	0.0	0.635	4083939	53.3		107	6111	
D 47 13C3 PFBS										
301.90 > 80.00	2.211	2.211	0.0	0.643	3898309	51.8		111	732056	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.211	2.211	0.0	1.000	14359485	168.5	Target=1.98	95.3	25778	
298.90 > 99.00	2.211	2.211	0.0	1.000	7494549		1.92(0.99-2.97)	95.3	5333	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.583	2.583	0.0	1.000	3480073	171.1		91.6	13500	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.583	2.583	0.0	0.751	397647	54.6		117	417	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.633	2.633	0.0	1.000	16070080	192.3	Target=12.51	96.2	3424	
313.00 > 119.00	2.633	2.633	0.0	1.000	1268592		12.67(6.25-18.76)	96.2	1258	
D 7 13C2 PFHxA										
315.00 > 270.00	2.633	2.633	0.0	0.766	4056783	53.3		107	7184	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.646	2.646	0.0	1.197	13617110	181.6	Target=2.77	96.8	23358	
349.00 > 99.00	2.646	2.646	0.0	1.197	5063281		2.69(1.38-4.15)	96.8	7263	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.766	2.766	0.0	1.000	2624870	197.8		98.9	845	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.766	2.766	0.0	0.804	261102	53.5		107	1677	
D 11 18O2 PFHxS										
403.00 > 84.00	3.059	3.059	0.0	0.890	2265919	51.4		109	5869	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.059	3.059	0.0	1.000	11013497	174.5	Target=3.37	95.9	15568	
399.00 > 99.00	3.059	3.059	0.0	1.000	3329427		3.31(1.68-5.05)	95.9	3096	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.059	3.059	0.0	1.000	13958091	184.3	Target=3.74	92.2	1723	
363.00 > 169.00	3.059	3.059	0.0	1.000	3865123		3.61(1.87-5.62)	92.2	9112	
D 9 13C4 PFHpA										
367.00 > 322.00	3.059	3.059	0.0	0.890	4041886	54.2		108	9965	
77 DONA										
377.00 > 251.00	3.108	3.108	0.0	0.832	32315396	177.6	Target=2.75	94.3	56294	
377.00 > 85.00	3.108	3.108	0.0	0.832	12956661		2.49(1.37-4.12)	94.3	23595	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.419	3.419	0.0	0.915	9543674	207.0	Target=4.99	109	8626	
449.00 > 99.00	3.419	3.419	0.0	0.915	1904250		5.01(2.50-7.49)	109	5139	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.429	3.429	0.0	1.000	2997907	188.3		99.3	30385	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.429	3.429	0.0	0.997	440938	48.1		101	1113	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.439	0.0		4327273	50.0			11151	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.439	3.439	0.0	1.000	17012607	190.0	Target=2.72	95.0	1817	
413.00 > 169.00	3.439	3.439	0.0	1.000	6557780		2.59(1.36-4.08)	95.0	10948	
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.439	0.0	1.000	4115123	52.3		105	11536	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.735	3.735	0.0	1.000	6705110	185.1	Target=4.21	99.7	34091	
499.00 > 99.00	3.735	3.735	0.0	1.000	1573475		4.26(2.10-6.31)	99.7	5327	
D 18 13C4 PFOS										
503.00 > 80.00	3.735	3.735	0.0	1.086	1829286	49.8		104	3222	
D 19 13C5 PFNA										
468.00 > 423.00	3.758	3.758	0.0	1.093	3801723	53.0		106	20047	
20 Perfluorononanoic acid										
463.00 > 419.00	3.758	3.758	0.0	1.000	13762455	199.8	Target=8.52	99.9	2986	
463.00 > 169.00	3.758	3.758	0.0	1.000	1717054		8.02(4.26-12.79)	99.9	19215	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.900	3.899	0.001	1.044	15281982	183.6		98.5	61203	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.024	4.024	0.0	1.077	5874380	181.8	Target=2.52	94.7	10167	
549.00 > 99.00	4.024	4.024	0.0	1.077	2535101		2.32(1.26-3.78)	94.7	4160	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.049	4.049	0.0	1.000	12449793	203.3		102	24617	
D 21 13C8 FOSA										
506.00 > 78.00	4.049	4.049	0.0	1.177	2354736	50.9		102	7290	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.049	4.049	0.0	1.000	10684329	196.1	Target=9.67	98.1	959	
513.00 > 169.00	4.049	4.049	0.0	1.000	1175510		9.09(4.83-14.50)	98.1	2277	
D 23 13C2 PFDA										
515.00 > 470.00	4.049	4.049	0.0	1.177	2813650	49.0		98.0	11554	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.061	4.061	0.0	1.000	2141277	186.6		97.4	16213	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.061	4.061	0.0	1.181	411129	48.6		101	1251	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.189	4.189	0.0	1.000	1269712	199.7		99.8	23694	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.189	4.189	0.0	1.218	420217	57.3		115	304	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.284	4.284	0.0	1.147	4902732	193.3	Target=2.60	100	8858	
599.00 > 99.00	4.284	4.284	0.0	1.147	1967520		2.49(1.30-3.90)	100	7349	
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.308	0.0	1.253	2746310	52.5		105	6540	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.308	4.308	0.0	1.000	8408507	178.4	Target=8.30	89.2	1976	
563.00 > 169.00	4.308	4.308	0.0	1.000	1057052		7.95(4.15-12.45)	89.2	5092	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.320	0.0	1.256	431348	52.8		106	1384	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.332	4.332	0.0	1.003	1069354	193.7		96.8	1699	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.404	4.404	0.0	1.179	22547771	178.0		94.5	20100	
D 36 13C2 PFDaA										
615.00 > 570.00	4.550	4.550	0.0	1.323	2955795	52.5		105	5094	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.550	4.550	0.0	1.000	12245212	202.6	Target=7.78	101	909	
613.00 > 169.00	4.550	4.550	0.0	1.000	1614917		7.58(3.89-11.67)	101	5788	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.575	4.575	0.0	1.126	1525462	210.0		109	7195	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.730	4.730	0.0	1.266	2377415	195.6	Target=0.49	101	6512	
699.00 > 99.00	4.730	4.730	0.0	1.266	4804145		0.49(0.25-0.74)	101	9679	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.778	4.778	0.0	1.050	10075759	185.7	Target=5.37	92.9	729	
663.00 > 169.00	4.778	4.778	0.0	1.050	1926998		5.23(2.68-8.05)	92.9	3656	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.013	5.013	0.0	1.000	2178886	192.8	Target=1.00	96.4	6370	
713.00 > 219.00	5.003	5.013	-0.011	0.998	2123215		1.03(0.50-1.50)	96.4	6388	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.013	5.013	0.0	1.458	4244420	54.7		109	10603	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.573	5.583	-0.010	1.621	3765979	54.6		109	10640	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.578	5.583	-0.005	1.001	13681373	191.8	Target=5.39	95.9	481	
813.00 > 169.00	5.573	5.583	-0.010	1.000	2543086		5.38(2.70-8.09)	95.9	11649	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	6.185	6.207	-0.022	1.110	11072789	195.5	Target=5.46	97.8	1795	
913.00 > 169.00	6.185	6.207	-0.022	1.110	2008842		5.51(2.73-8.19)	97.8	17817	

Reagents:

LCPFAS32-L6\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d

Injection Date: 26-Jul-2019 11:34:21

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 22

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

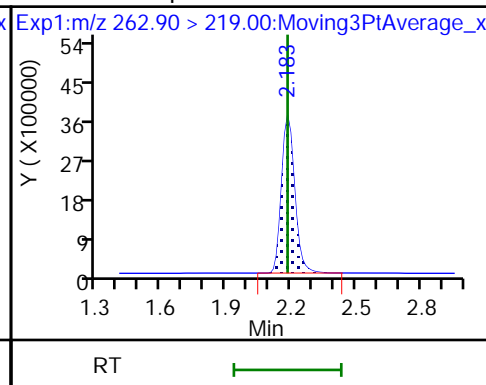
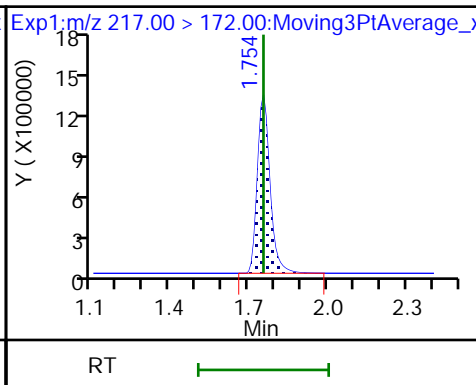
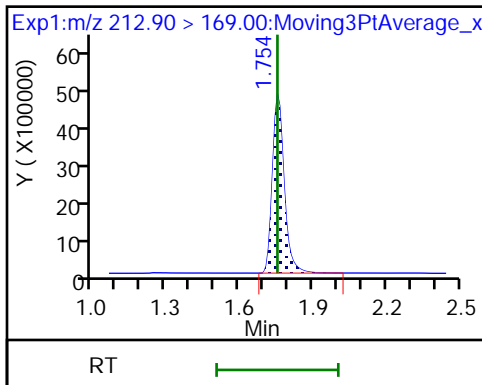
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

2 Perfluorobutanoic acid

D 1 13C4 PFBA

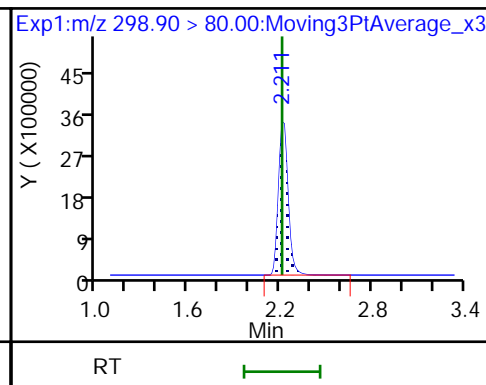
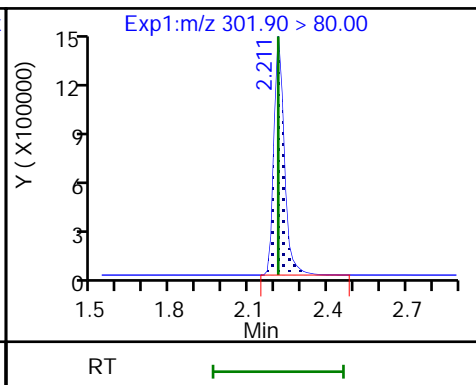
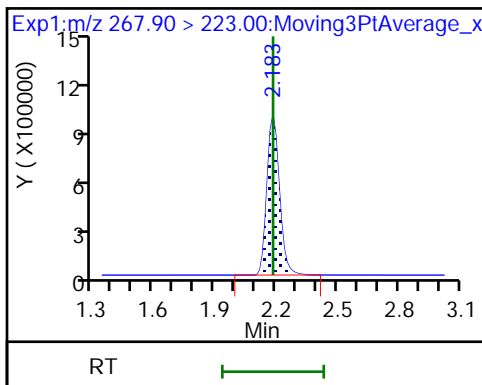
4 Perfluoropentanoic acid



D 3 13C5 PFPeA

D 47 13C3 PFBS

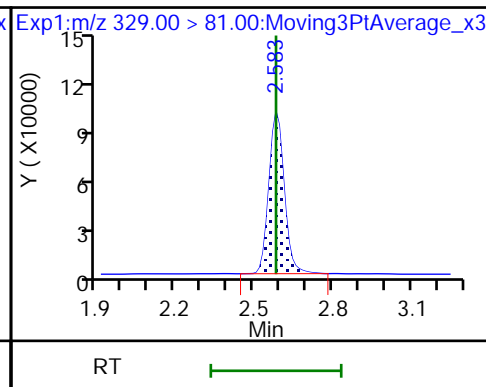
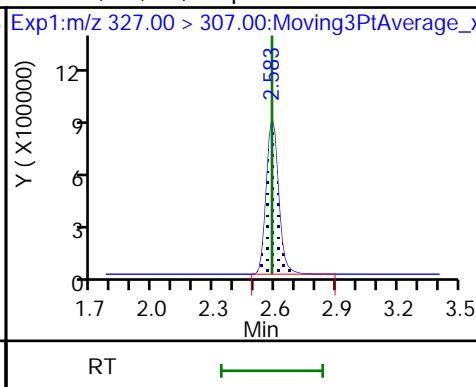
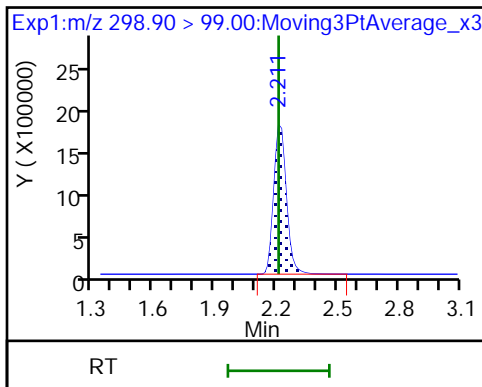
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfonate

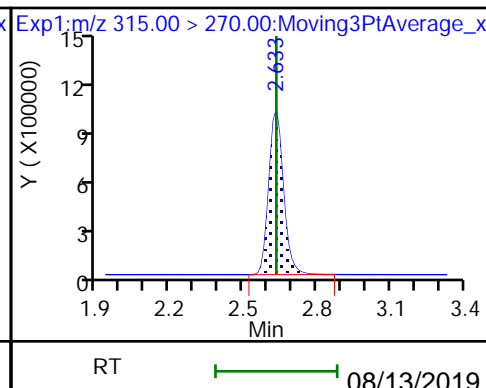
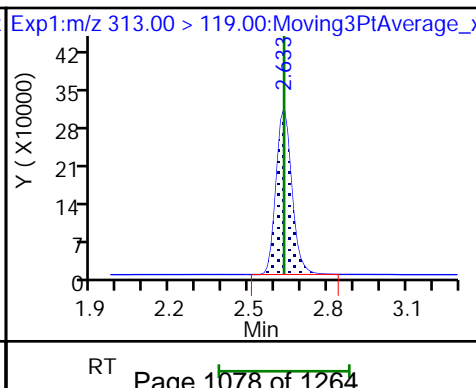
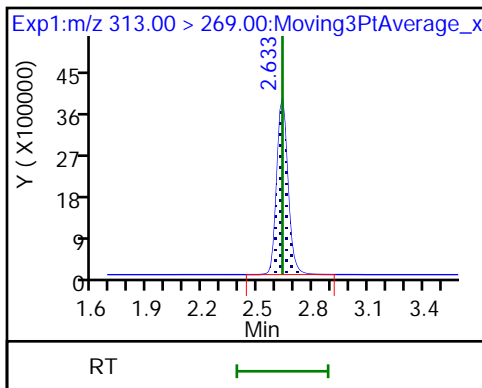
D 60 M2-4:2 FTS



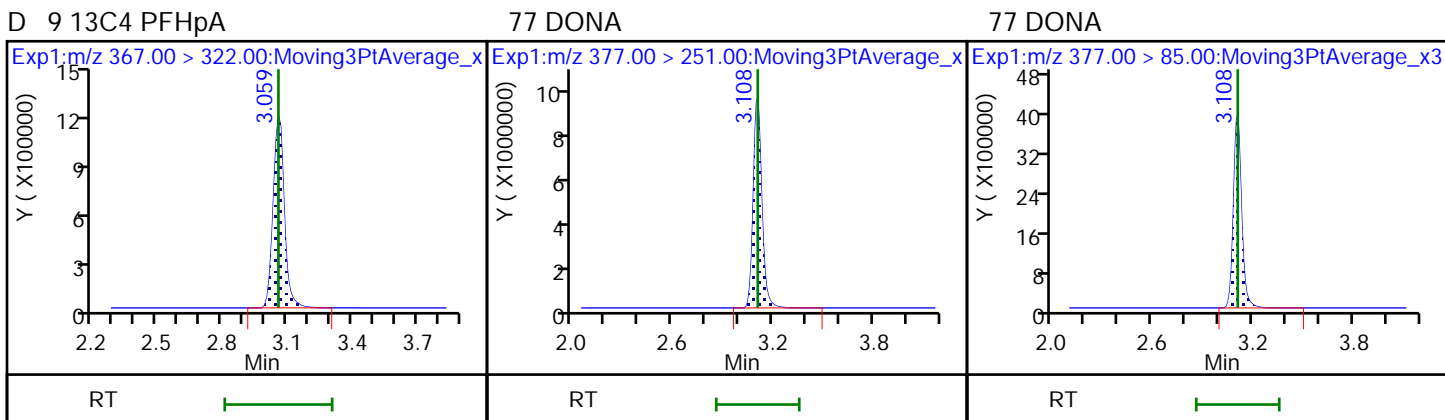
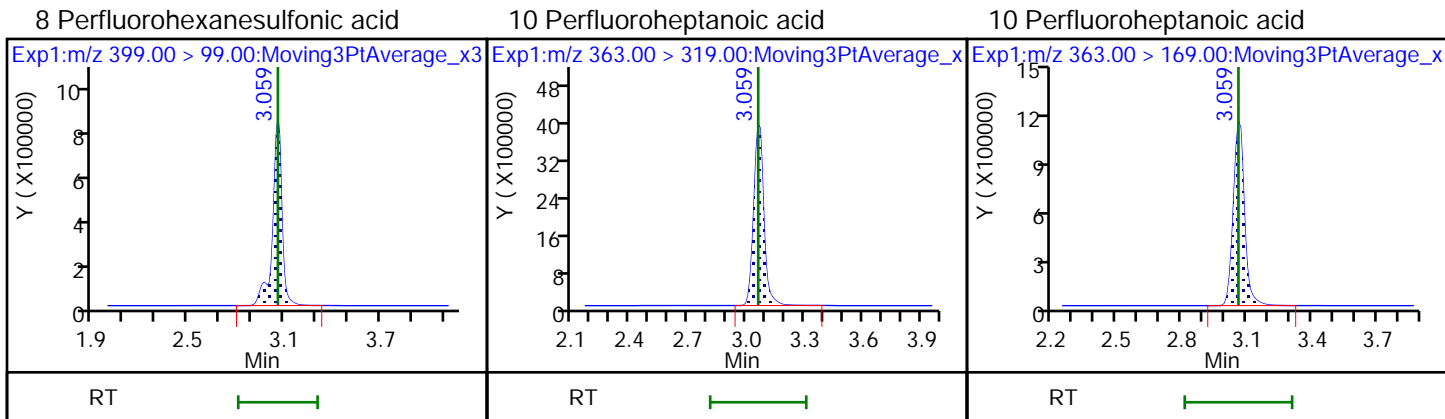
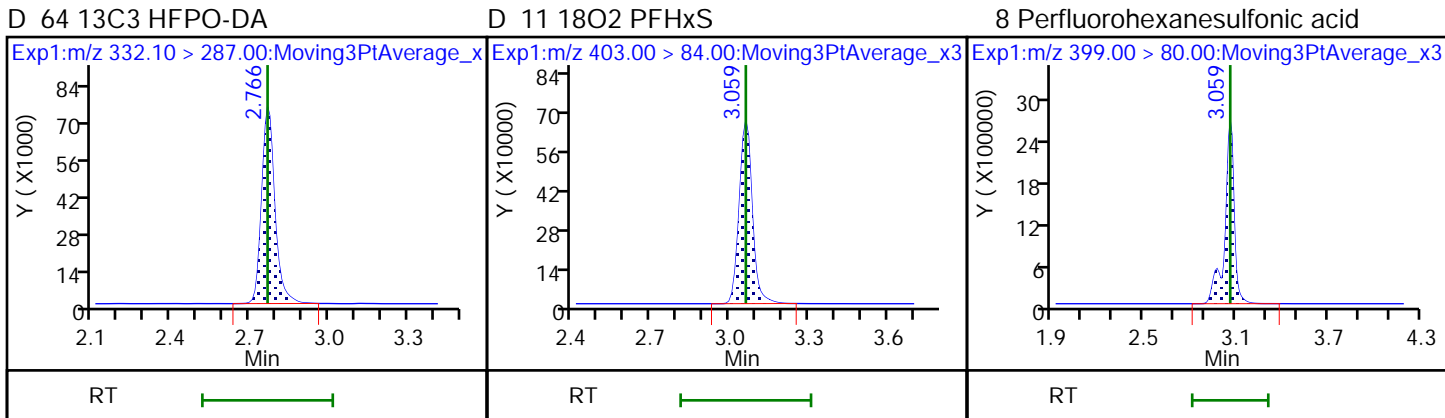
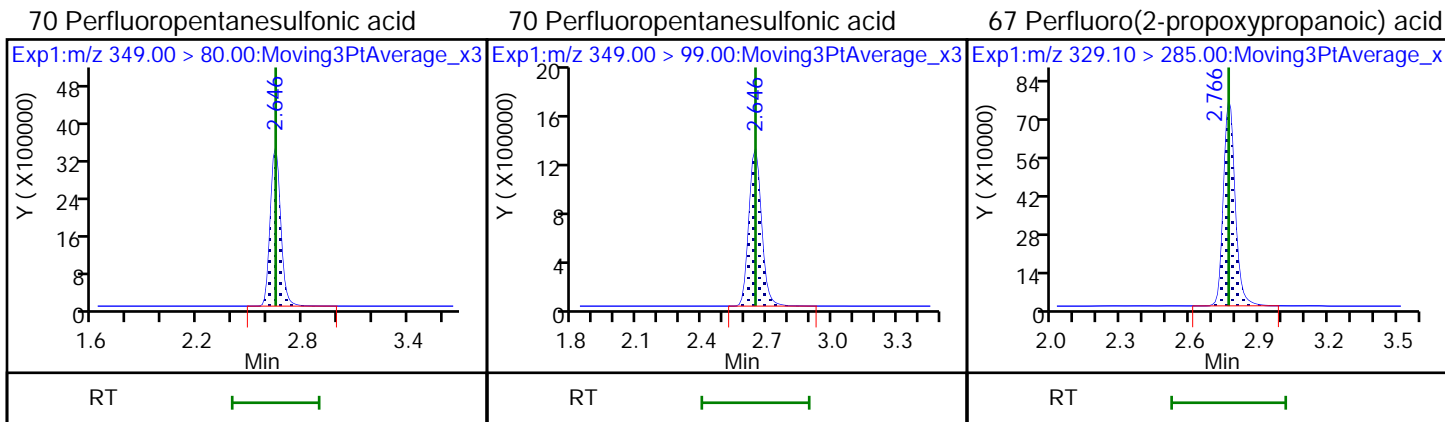
6 Perfluorohexanoic acid

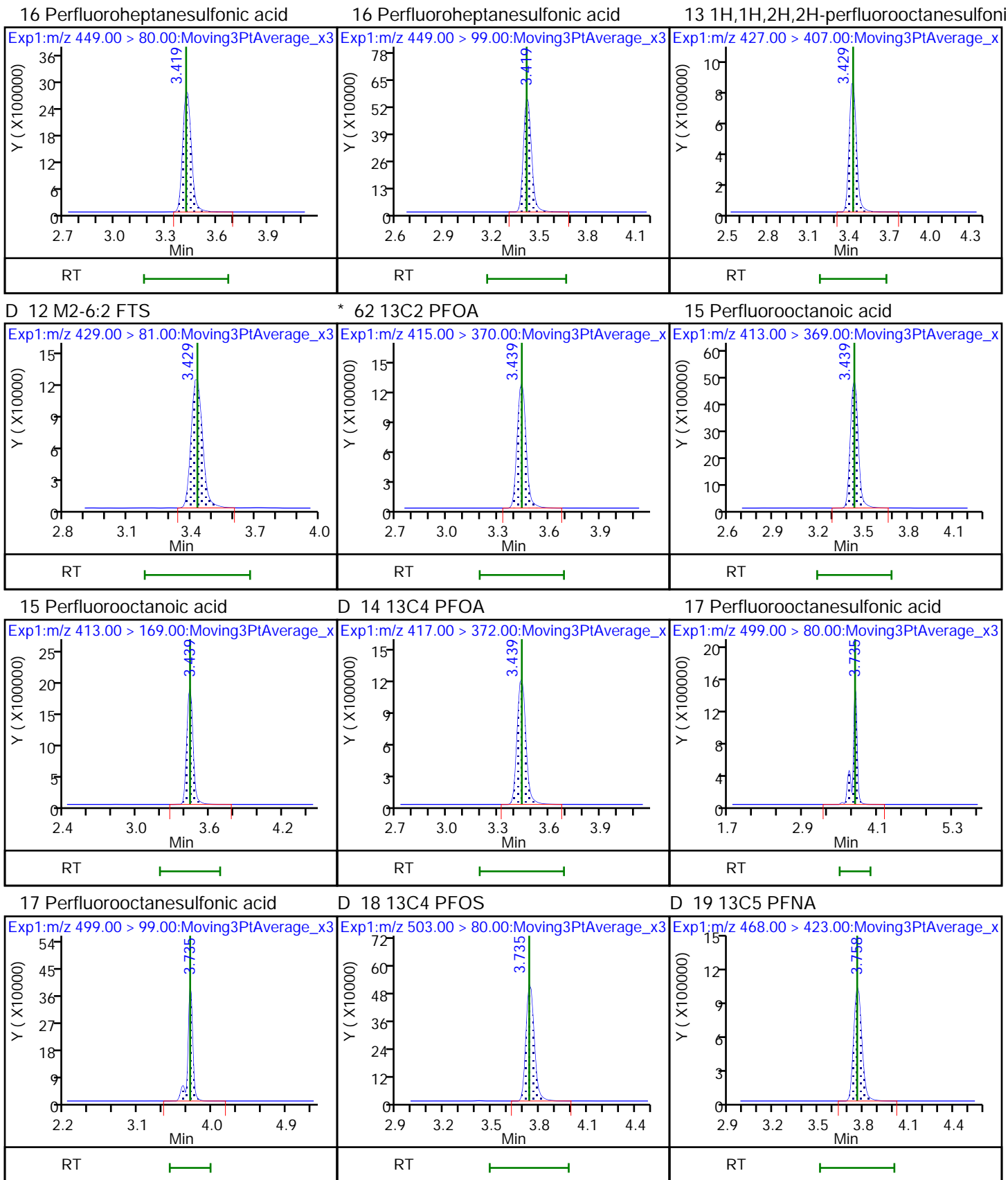
6 Perfluorohexanoic acid

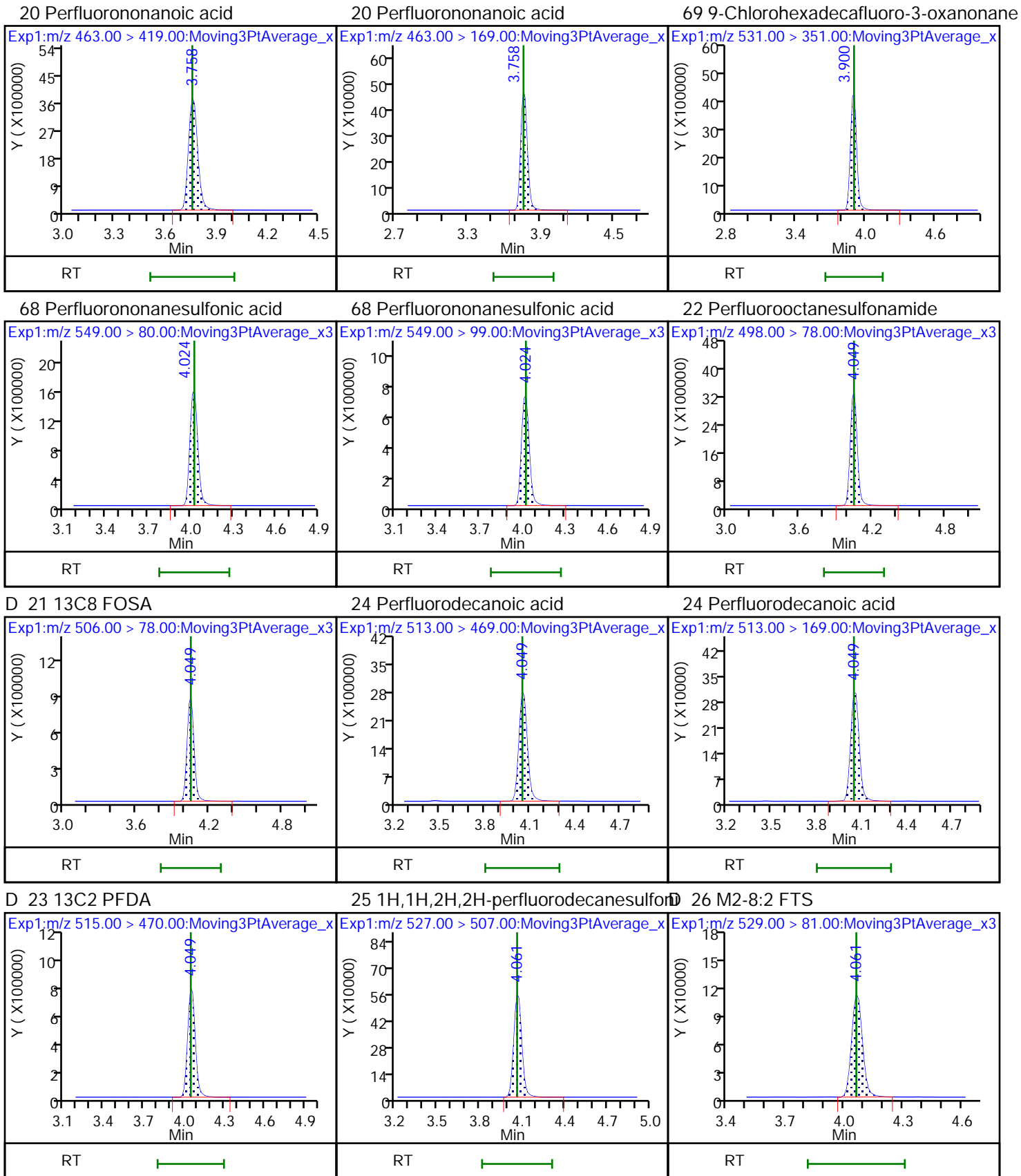
D 7 13C2 PFHxA





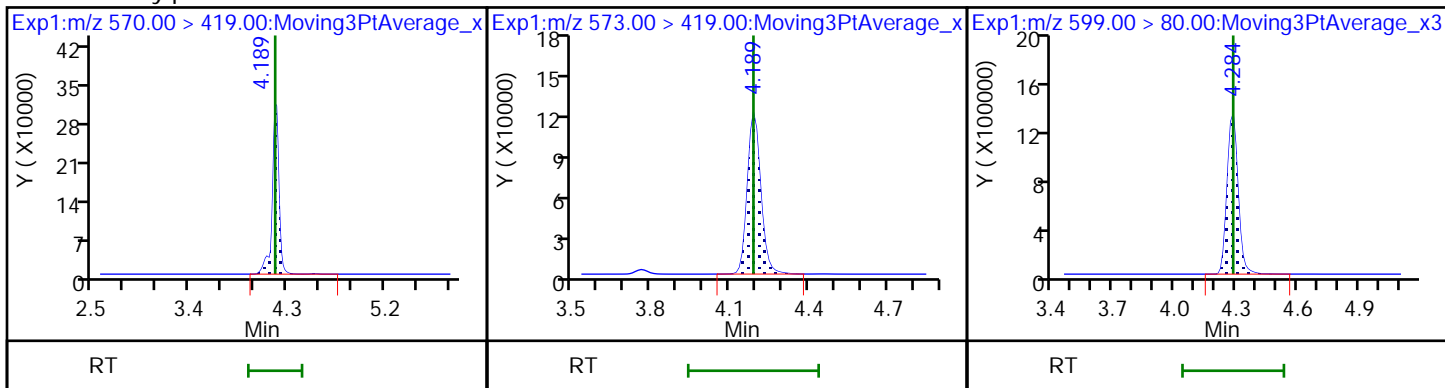






28 N-methylperfluorooctanesulfonamidD 27 d3-NMeFOSAA

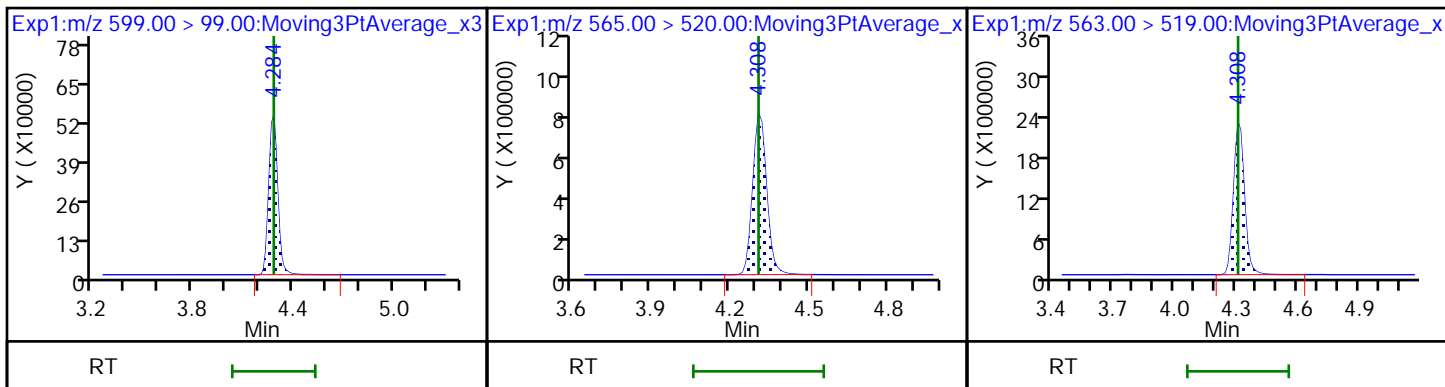
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

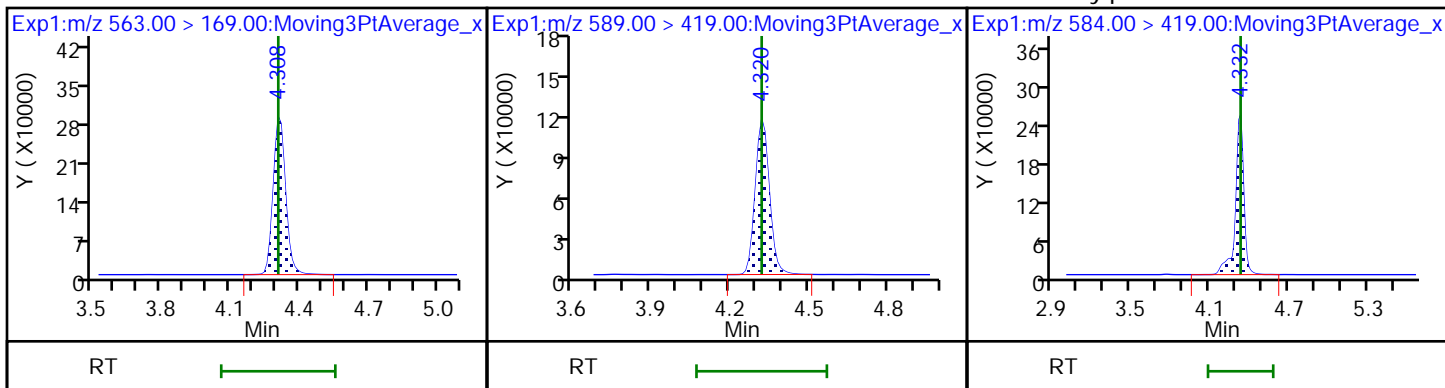
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

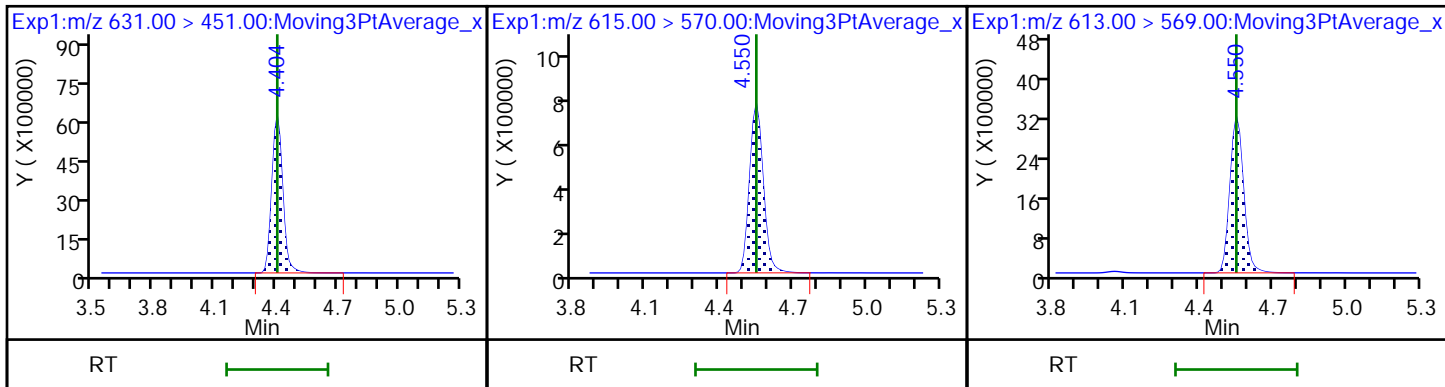
33 N-ethylperfluorooctanesulfonamidoa



66 11-Chloroeicosafuoro-3-oxaundecaD

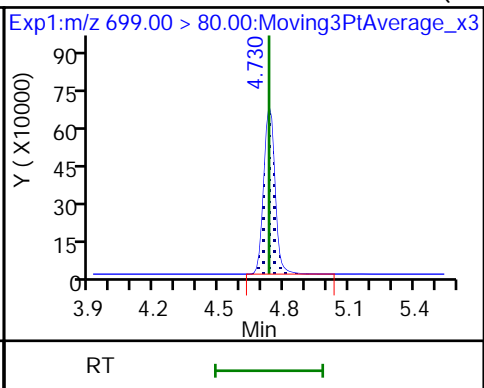
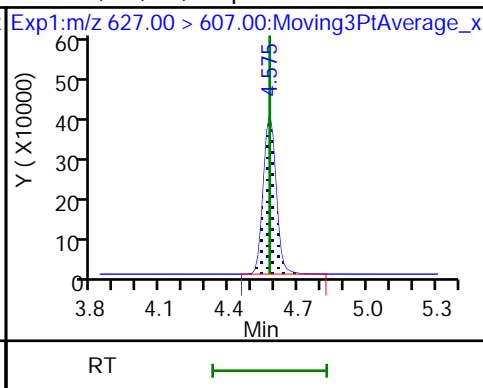
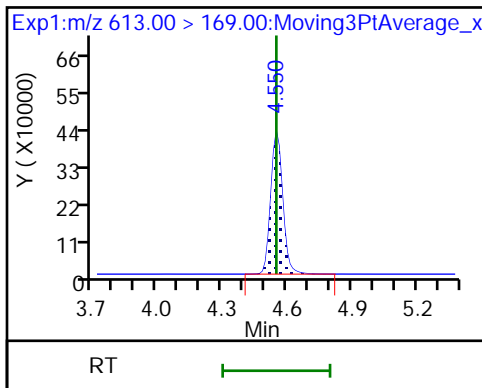
36 13C2 PFDoA

37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

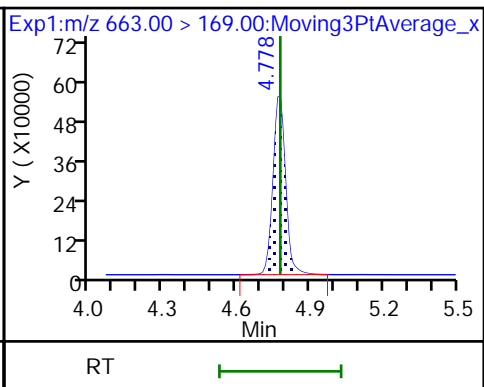
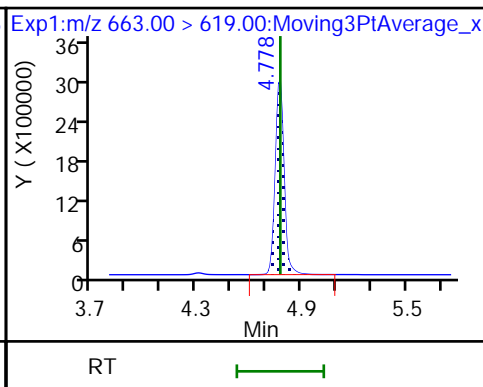
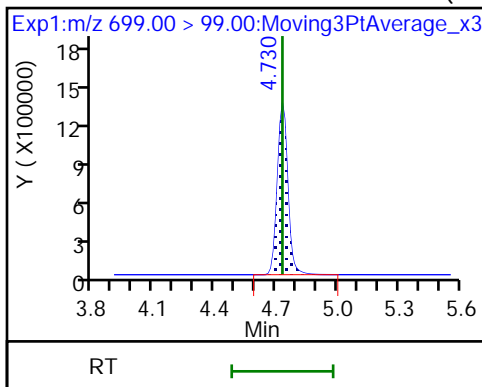
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

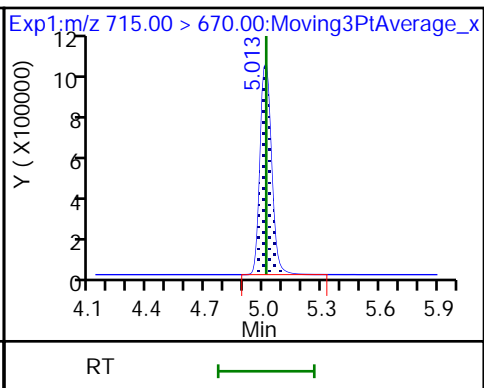
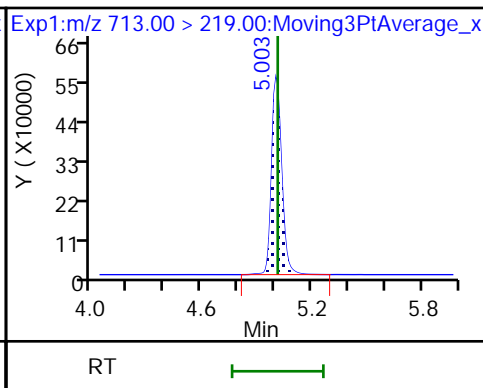
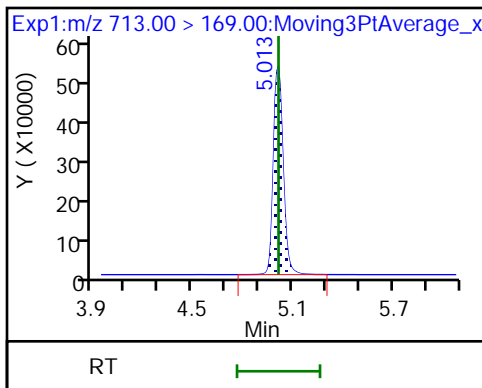
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

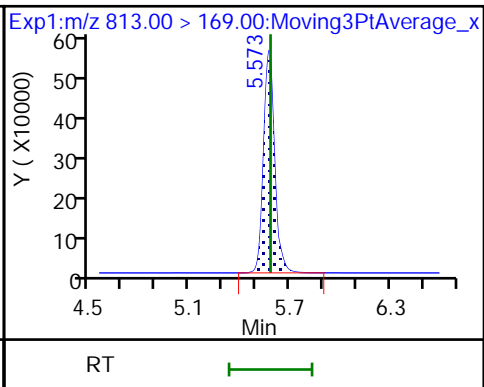
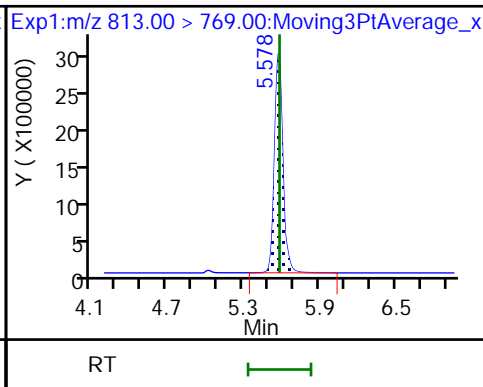
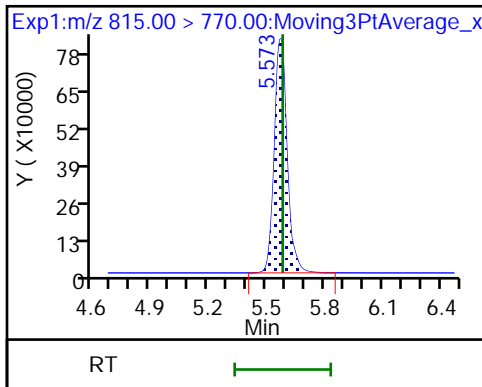
D 43 13C2 PFTeDA



D 44 13C2 PFHxDA

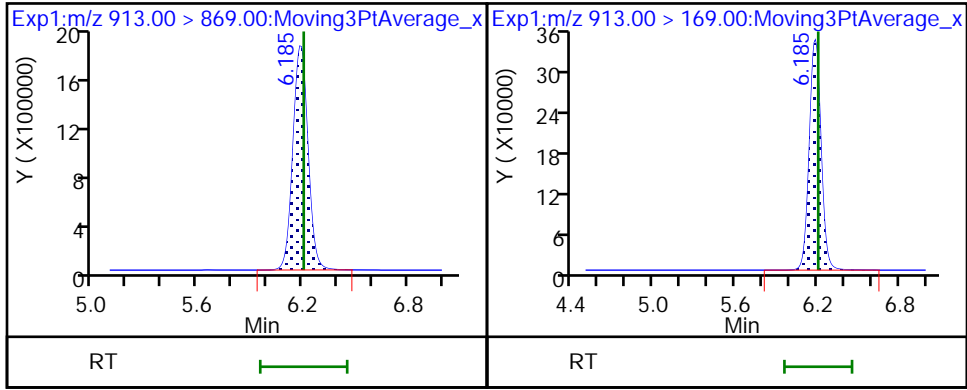
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-145525/24 Calibration Date: 07/26/2019 11:50  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC072619A024.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9217	0.9543		20700	20000	3.5	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.9677	1.127		23500	20200	16.4	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.017	1.032		20300	20000	1.6	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.389	2.776		23200	20000	16.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.030	1.151		22600	20200	11.7	40.0
Perfluoropentanesulfonic acid	AveID	0.8944	0.9414		21000	20000	5.2	50.0
HFPO-DA	AveID	2.541	2.177		17300	20200	-14.3	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.318	1.153		17700	20200	-12.5	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9367	0.997		21300	20000	6.5	40.0
DONA	AveID	4.754	4.611		19400	20000	-3.0	50.0
6:2 FTS	AveID	1.715	1.745		20400	20000	1.8	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.205	1.319		21900	20000	9.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.146		21100	20000	5.3	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9465	0.9123		19500	20200	-3.6	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9059	1.033		22800	20000	14.0	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	2.174	2.001		18400	20000	-8.0	50.0
Perfluorononanesulfonic acid	AveID	0.8445	0.8000		19100	20200	-5.3	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9129	0.9878		21600	20000	8.2	40.0
8:2 FTS	AveID	1.337	1.501		22700	20200	12.3	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9682	1.101		22700	20000	13.7	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7567	0.7901		20900	20000	4.4	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6627	0.6780		20700	20200	2.3	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8581	0.9084		21200	20000	5.9	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6400	0.8316		26000	20000	29.9	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	3.310	3.277		19800	20000	-1.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.022	1.006		19700	20000	-1.6	40.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.9176	0.9651		21000	20000	5.2	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1331	0.1414		21200	20000	6.2	40.0
13C4 PFBA	Ave	0.9423	0.9565		50800	50000	1.5	50.0
13C5 PFPeA	Ave	0.8851	0.8119		45900	50000	-8.3	50.0
13C3 PFBS	Ave	0.8694	0.8869		47400	46500	2.0	50.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-145525/24 Calibration Date: 07/26/2019 11:50  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC072619A024.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
M2-4:2 FTS	Ave	0.0841	0.0768		42700	46700	-8.7	50.0
13C2 PFHxA	Ave	0.8791	0.8618		49000	50000	-2.0	50.0
13C3 HFPO-DA	Ave	0.0564	0.0671		119000	100000	19.0	50.0
13C4 PFHpA	Ave	0.8611	0.8457		49100	50000	-1.8	50.0
18O2 PFHxS	Ave	0.5092	0.6186		57500	47300	21.5	50.0
M2-6:2 FTS	Ave	0.1060	0.1036		46400	47500	-2.3	50.0
13C4 PFOA	Ave	0.9094	0.8983		49400	50000	-1.2	50.0
13C4 PFOS	Ave	0.4242	0.4571		51500	47800	7.8	50.0
13C5 PFNA	Ave	0.8296	0.7938		47800	50000	-4.3	50.0
13C8 FOSA	Ave	0.7620	0.7712		50600	50000	1.2	50.0
13C2 PFDA	Ave	0.6637	0.6545		49300	50000	-1.4	50.0
M2-8:2 FTS	Ave	0.0978	0.0983		48200	47900	0.6	50.0
d3-NMeFOSAA	Ave	0.0848	0.0937		55300	50000	10.5	50.0
13C2 PFUnA	Ave	0.6045	0.5761		47600	50000	-4.7	50.0
d5-NEtFOSAA	Ave	0.0945	0.0890		47100	50000	-5.8	50.0
13C2 PFDoA	Ave	0.6507	0.6746		51800	50000	3.7	50.0
13C2 PFTeDA	Ave	0.8960	0.8886		49600	50000	-0.8	50.0
13C2 PFHxDA	Ave	0.7972	0.8216		51500	50000	3.1	50.0



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A024.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 26-Jul-2019 11:50:23 ALS Bottle#: 10 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: 200-0036970-024 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub4  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 29-Jul-2019 11:20:36 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d

Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0320  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.764	1.754	0.010	1.000	1778343	20.7			158	
D 1 13C4 PFBA										
217.00 > 172.00	1.764	1.754	0.010	0.513	4659007	50.8		102	10572	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.183	2.183	0.0	1.000	1800109	23.5			83.7	
D 3 13C5 PFPeA										
267.90 > 223.00	2.183	2.183	0.0	0.635	3954915	45.9		91.7	6129	
D 47 13C3 PFBS										
301.90 > 80.00	2.211	2.211	0.0	0.643	4017672	47.4		102	1461050	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.225	2.211	0.014	1.006	1784181	20.3	Target=1.90		3578	
298.90 > 99.00	2.225	2.211	0.014	1.006	912930		1.95(0.95-2.85)		651	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.583	2.583	0.0	0.995	415480	23.2			2414	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.596	2.583	0.013	0.755	349481	42.7		91.3	297	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.633	2.633	0.0	1.000	1951328	22.6	Target=13.23		477	
313.00 > 119.00	2.633	2.633	0.0	1.000	142317		13.71(6.61-19.84)		181	
D 7 13C2 PFHxA										
315.00 > 270.00	2.633	2.633	0.0	0.766	4197964	49.0		98.0	12066	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.646	2.646	0.0	1.197	1626689	21.0	Target=2.73		4001	
349.00 > 99.00	2.646	2.646	0.0	1.197	584579		2.78(1.37-4.10)		1026	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.774	2.766	0.008	1.000	287631	17.3			93.0	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.774	2.766	0.008	0.807	653969	119.0		119	3590	
D 11 18O2 PFHxS										
403.00 > 84.00	3.059	3.059	0.0	0.890	2850234	57.5		121	11720	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.059	3.059	0.0	1.000	1403786	17.7	Target=3.37		3702	
399.00 > 99.00	3.059	3.059	0.0	1.000	394769		3.56(1.69-5.06)		403	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.070	3.059	0.011	1.003	1643028	21.3	Target=3.76		188	
363.00 > 169.00	3.059	3.059	0.0	1.000	471972		3.48(1.88-5.65)		2085	
D 9 13C4 PFHpA										
367.00 > 322.00	3.059	3.059	0.0	0.890	4119371	49.1		98.2	14587	
77 DONA										
377.00 > 251.00	3.108	3.108	0.0	0.832	4107228	19.4	Target=2.72		5409	
377.00 > 85.00	3.108	3.108	0.0	0.832	1473114		2.79(1.36-4.07)		2164	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.429	3.419	0.010	0.918	1175081	21.9	Target=4.80		2500	
449.00 > 99.00	3.419	3.419	0.0	0.915	249037		4.72(2.40-7.20)		1003	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.429	3.429	0.0	1.000	352292	20.4			3549	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.429	3.429	0.0	0.997	479353	46.4		97.7	1141	
* 62 13C2 PFOA										
415.00 > 370.00	3.439	3.439	0.0		4870975	50.0			12061	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.439	3.439	0.0	1.000	2005828	21.1	Target=2.84		257	
413.00 > 169.00	3.439	3.439	0.0	1.000	778664		2.58(1.42-4.25)		1474	
D 14 13C4 PFOA										
417.00 > 372.00	3.439	3.439	0.0	1.000	4375666	49.4		98.8	9357	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.746	3.735	0.011	1.003	820634	19.5	Target=4.33		5207	
499.00 > 99.00	3.735	3.735	0.0	1.000	183648		4.47(2.16-6.49)		642	
D 18 13C4 PFOS										
503.00 > 80.00	3.735	3.735	0.0	1.086	2128672	51.5		108	6785	
D 19 13C5 PFNA										
468.00 > 423.00	3.758	3.758	0.0	1.093	3866492	47.8		95.7	12642	
20 Perfluorononanoic acid										
463.00 > 419.00	3.758	3.758	0.0	1.000	1597602	22.8	Target=8.15		296	
463.00 > 169.00	3.758	3.758	0.0	1.000	192739		8.29(4.08-12.23)		1917	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.900	3.899	0.001	1.044	1782151	18.4			6259	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.024	4.024	0.0	1.077	719665	19.1	Target=2.42		4658	
549.00 > 99.00	4.024	4.024	0.0	1.077	289299		2.49(1.21-3.63)		452	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.049	4.049	0.0	1.000	1484106	21.6			2975	
D 21 13C8 FOSA										
506.00 > 78.00	4.049	4.049	0.0	1.177	2754075	50.6		101	7764	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.061	4.049	0.012	1.000	1404415	22.7	Target=9.58		116	
513.00 > 169.00	4.061	4.049	0.012	1.000	151482		9.27(4.79-14.37)		360	
D 23 13C2 PFDA										
515.00 > 470.00	4.061	4.049	0.012	1.181	3188191	49.3		98.6	14157	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.061	4.061	0.0	1.000	290467	22.7			2899	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.061	4.061	0.0	1.181	458869	48.2		101	1299	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.200	4.189	0.011	1.000	144207	20.9			144	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.200	4.189	0.011	1.221	456308	55.3		111	1548	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.284	4.284	0.0	1.147	609871	20.7	Target=2.64		3305	
599.00 > 99.00	4.284	4.284	0.0	1.147	234049		2.61(1.32-3.96)		643	
D 30 13C2 PFUnA										
565.00 > 520.00	4.320	4.308	0.012	1.256	2806136	47.6		95.3	11078	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.320	4.308	0.012	1.000	1019627	21.2	Target=7.95		269	
563.00 > 169.00	4.320	4.308	0.012	1.000	120026		8.50(3.98-11.93)		829	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.332	4.320	0.012	1.260	433342	47.1		94.2	1980	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.332	4.332	0.0	1.000	144141	26.0			1054	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.404	4.404	0.0	1.179	2918719	19.8			7273	
D 36 13C2 PFDoA										
615.00 > 570.00	4.550	4.550	0.0	1.323	3285981	51.8		104	6221	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.550	4.550	0.0	1.000	1322673	19.7	Target=7.49		76.1	
613.00 > 169.00	4.550	4.550	0.0	1.000	177223		7.46(3.75-11.24)		1390	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.778	4.778	0.0	1.050	1268526	21.0	Target=5.71		96.1	
663.00 > 169.00	4.778	4.778	0.0	1.050	233254		5.44(2.85-8.56)		877	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.013	5.013	0.0	1.000	244725	21.2	Target=1.02		442	
713.00 > 219.00	5.013	5.013	0.0	1.000	244860		1.00(0.51-1.54)		287	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.013	5.013	0.0	1.458	4328362	49.6		99.2	6629	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.574	5.583	-0.009	1.621	4001902	51.5		103	11947	

Reagents:

LCPFAS27ISICV\_00004

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A024.d

Injection Date: 26-Jul-2019 11:50:23

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: lc812tech

ALS Bottle#: 10

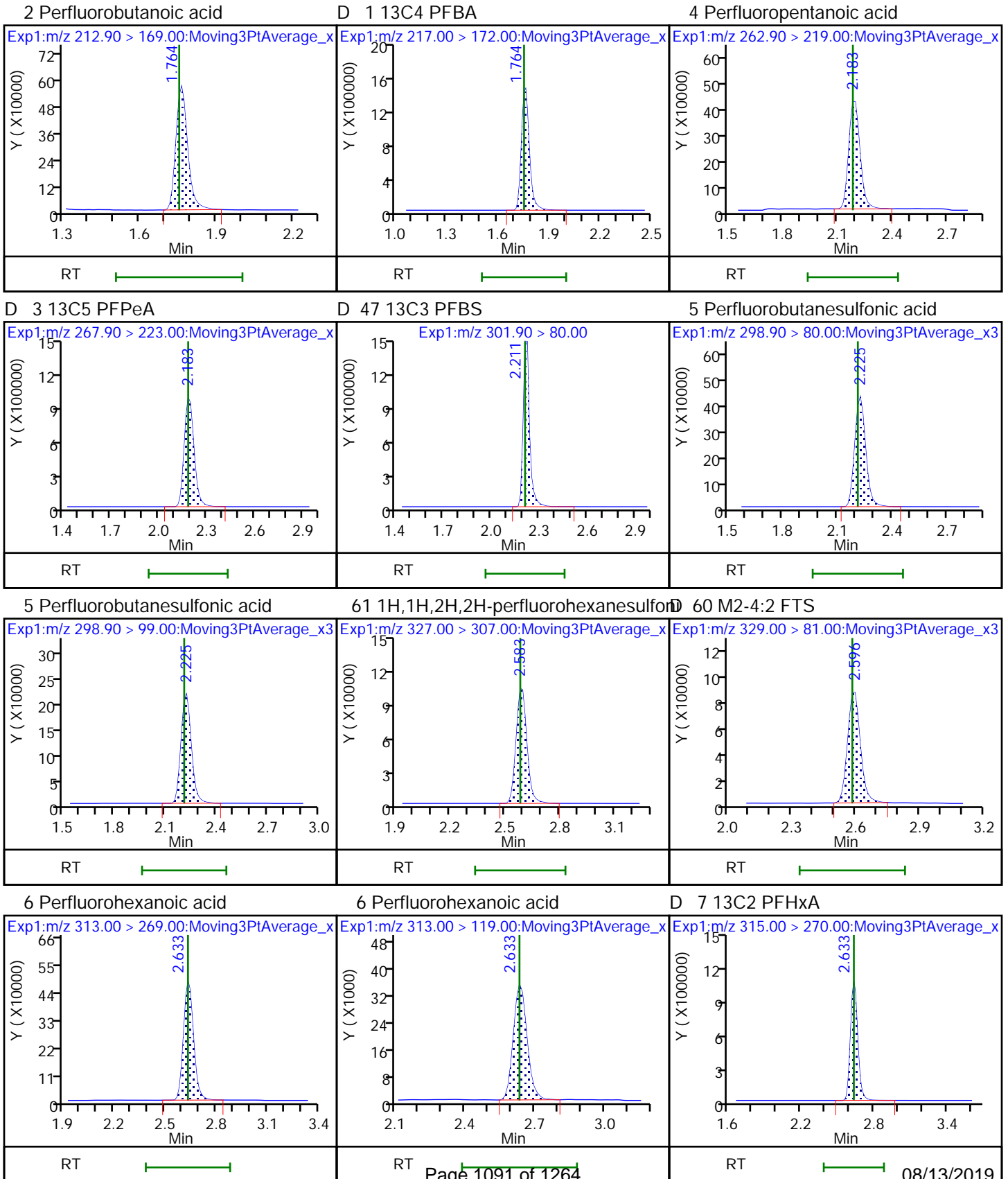
Worklist Smp#: 24

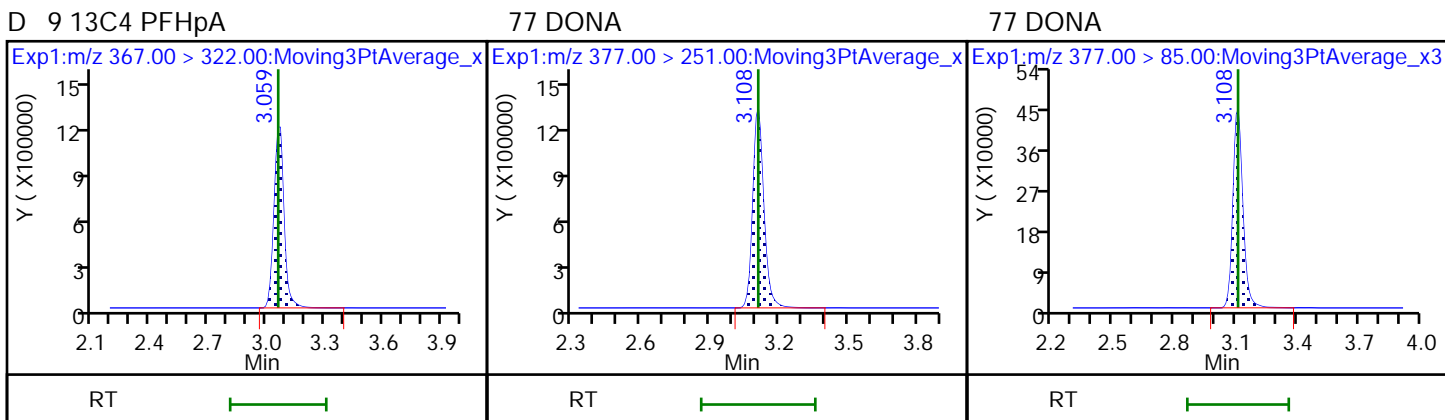
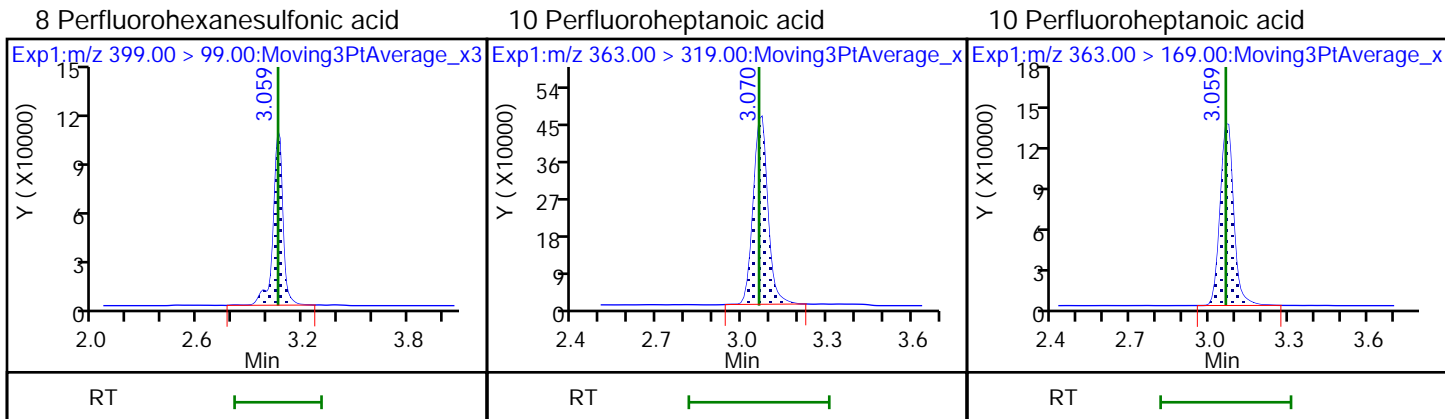
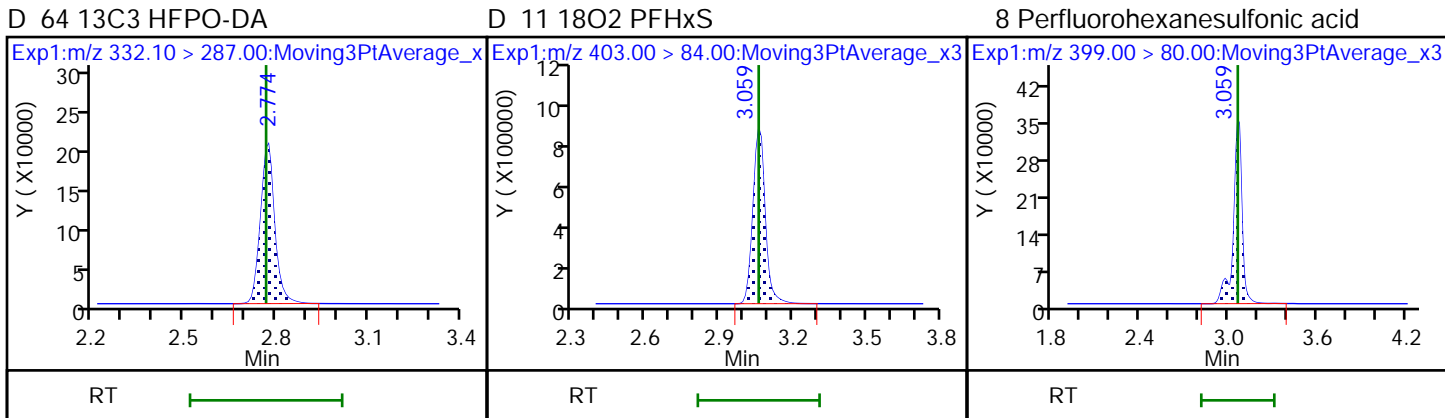
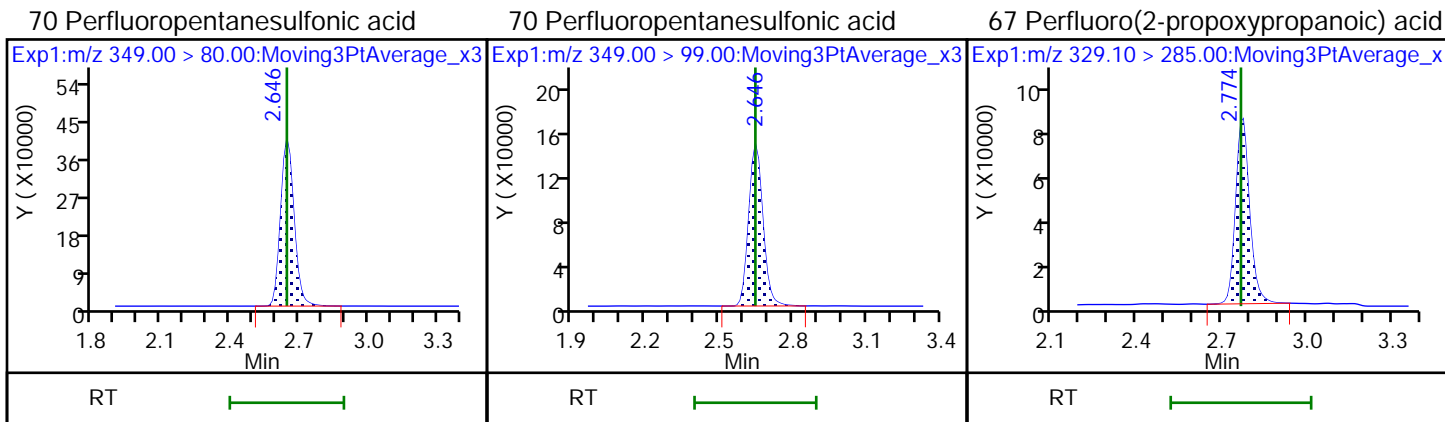
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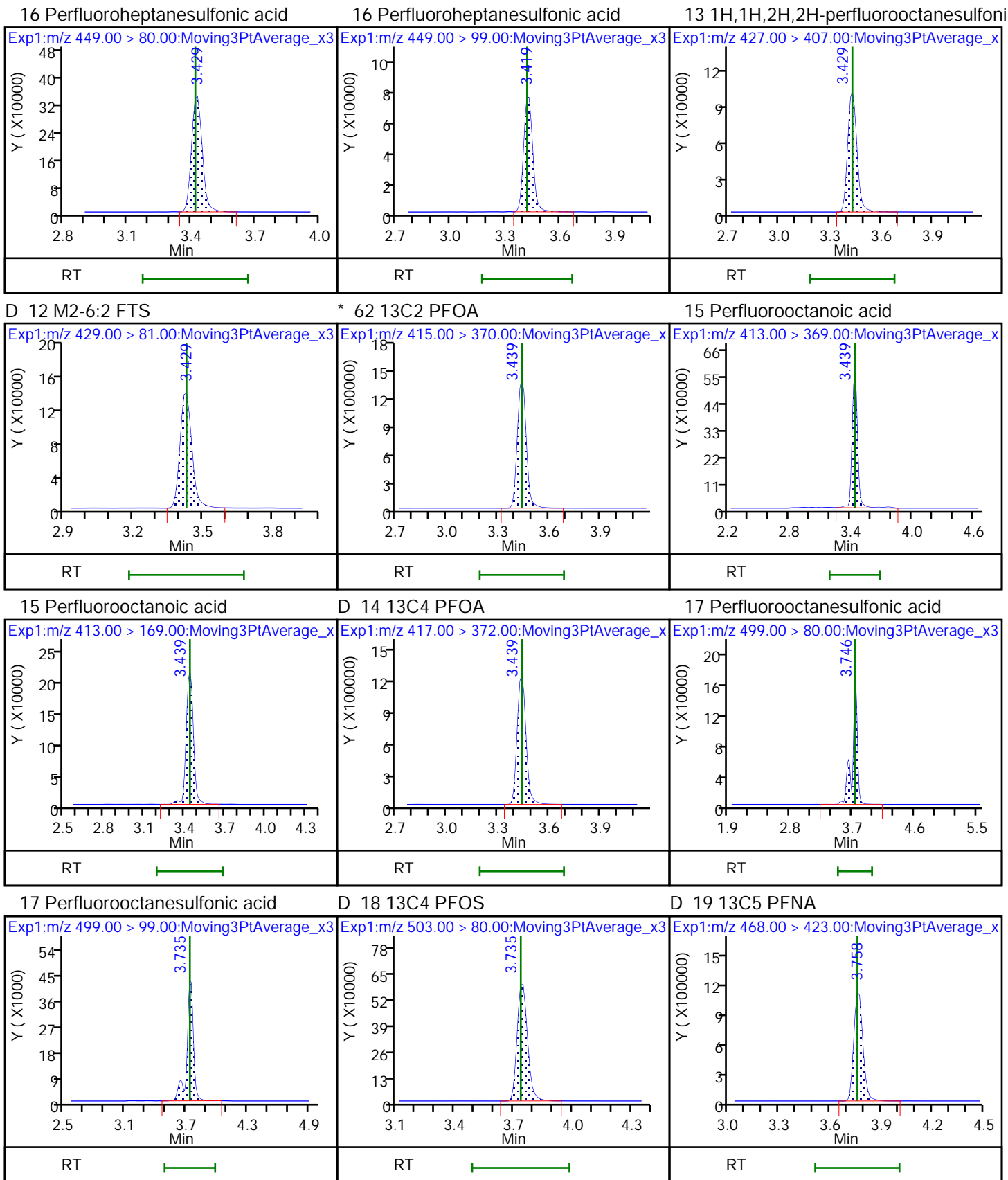
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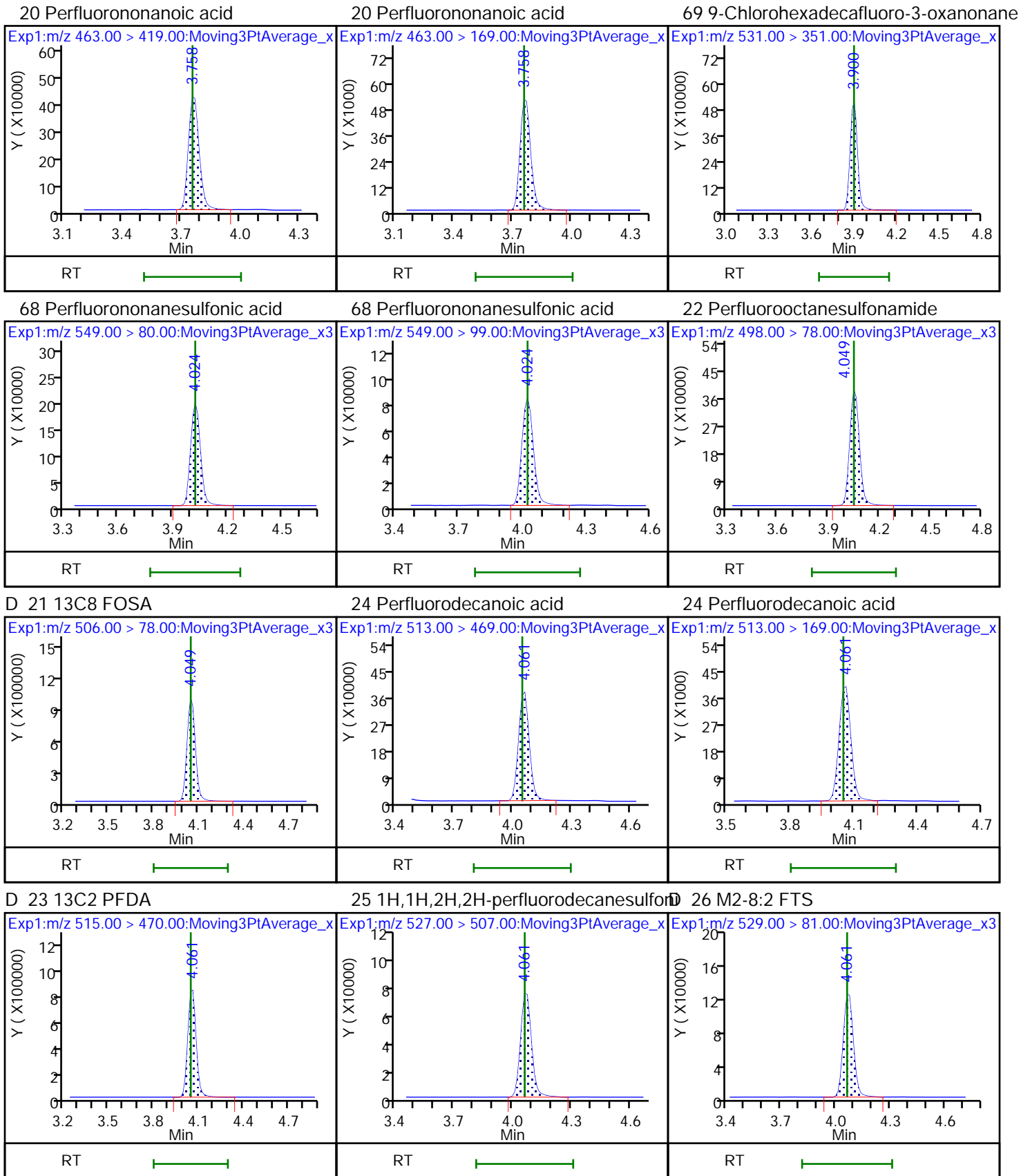
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL





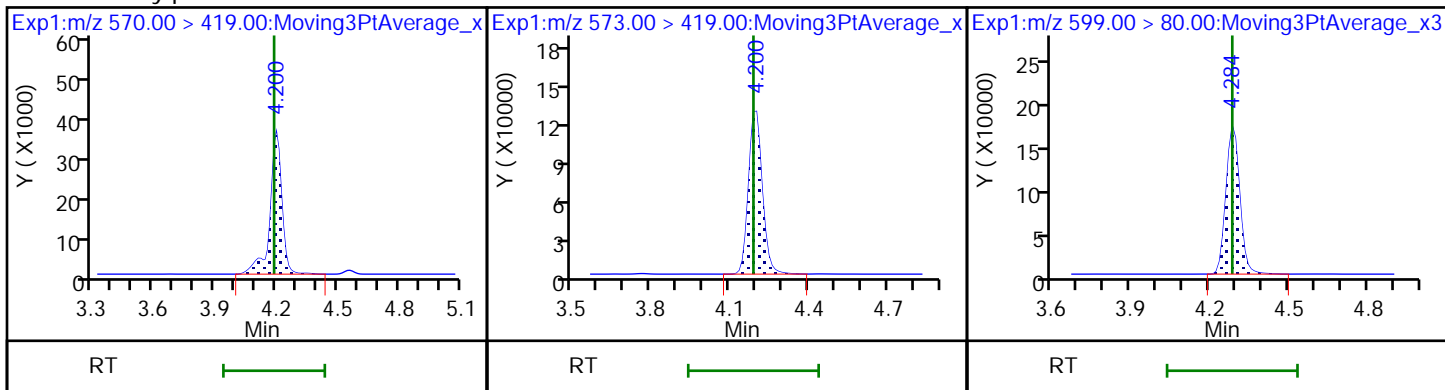






28 N-methylperfluorooctanesulfonamidD 27 d3-NMeFOSAA

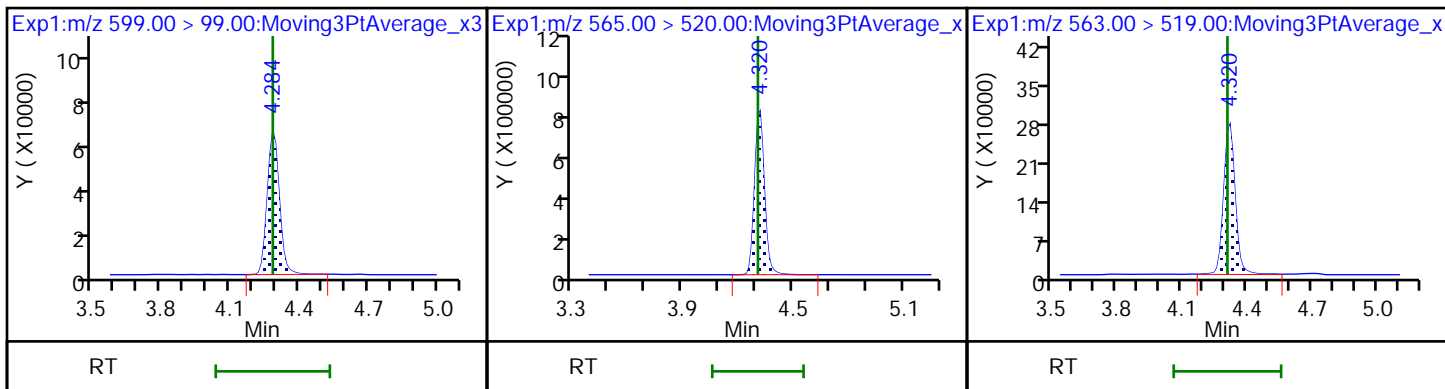
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

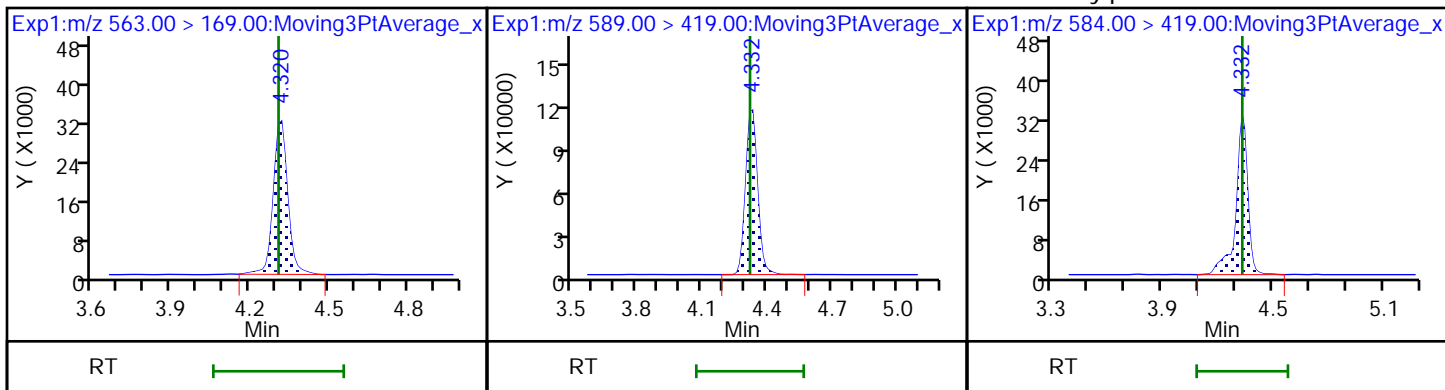
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

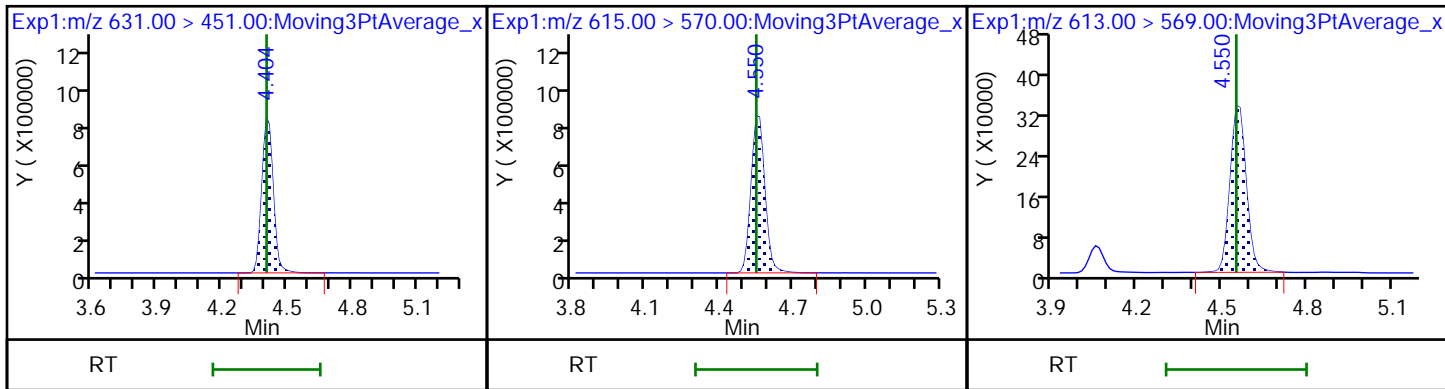
33 N-ethylperfluorooctanesulfonamidoa



66 11-Chloroeicosafuoro-3-oxaundecaD

36 13C2 PFDoA

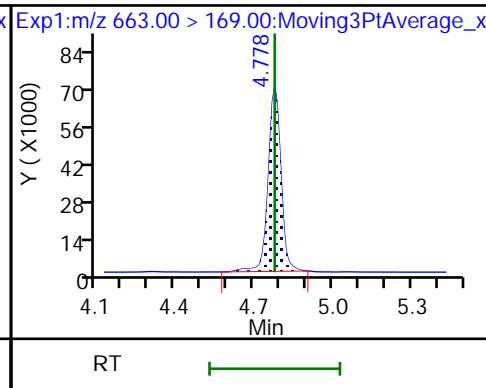
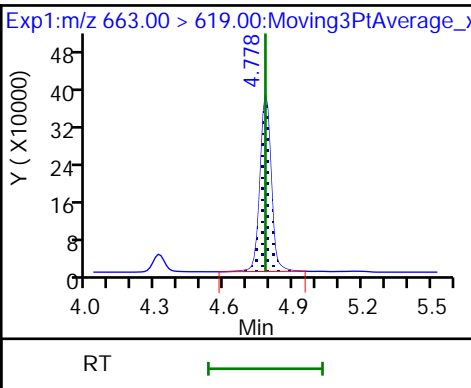
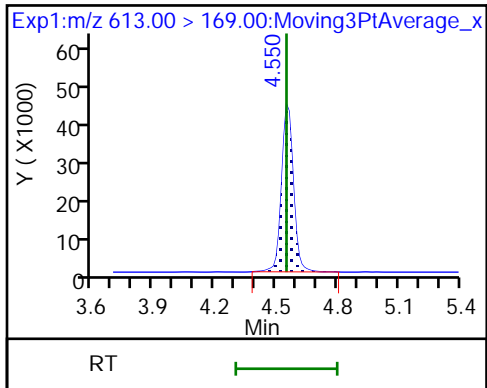
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

41 Perfluorotridecanoic acid

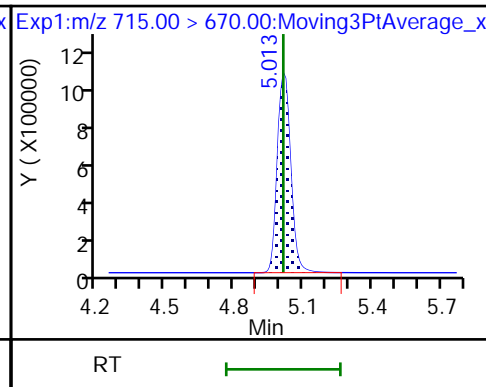
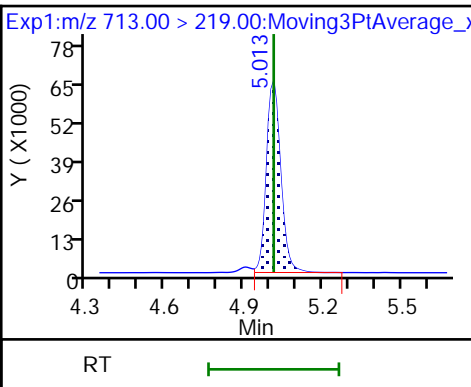
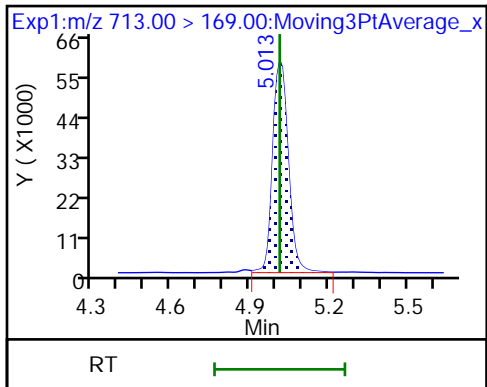
41 Perfluorotridecanoic acid



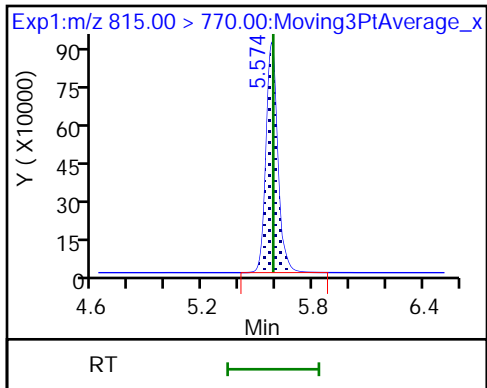
42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

D 43 13C2 PFTeDA



D 44 13C2 PFHxDA



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 200-145757/2 Calibration Date: 08/01/2019 14:26  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119A002.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9217	0.9303		1010	1000	0.9	50.0
Perfluoropentanoic acid (PFPeA)	AveID	0.9677	1.025		1060	1000	6.0	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.017	1.061		923	884	4.4	50.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.389	2.129		8320	9340	-10.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.030	1.120		1090	1000	8.8	50.0
Perfluoropentanesulfonic acid	AveID	0.8944	0.8752		918	938	-2.2	50.0
HFPO-DA	AveID	2.541	3.193		1260	1000	25.6	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.318	1.449		1000	910	9.9	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9367	1.020		1090	1000	8.9	50.0
DONA	AveID	4.754	4.855		962	942	2.1	50.0
6:2 FTS	AveID	1.715	1.409		7790	9480	-17.8	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.205	1.309		1030	952	8.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.290		1190	1000	18.5	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9465	1.049		1030	928	10.8	50.0
Perfluorononanoic acid (PFNA)	AveID	0.9059	0.9231		1020	1000	1.9	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	2.174	2.014		863	932	-7.4	50.0
Perfluorononanesulfonic acid	AveID	0.8445	1.050		1190	960	24.3	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9682	1.057		1090	1000	9.2	50.0
8:2 FTS	AveID	1.337	1.053		7540	9580	-21.3	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9129	0.8601		942	1000	-5.8	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7567	0.7847		10400	10000	3.7	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6627	0.7199		1050	964	8.6	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8581	0.8468		987	1000	-1.3	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6400	0.6242		9750	10000	-2.5	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	3.310	2.913		829	942	-12.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.022	1.110		1090	1000	8.6	50.0
10:2 FTS	AveID	0.8462	0.6424		7320	9640	-24.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3176	0.4113		1250	968	29.5	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.9176	0.9237		1010	1000	0.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1331	0.1719		1290	1000	29.1	50.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 200-145757/2 Calibration Date: 08/01/2019 14:26  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119A002.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.380		1070	1000	6.8	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7518	0.6414		853	1000	-14.7	50.0
13C4 PFBA	Ave	0.9423	0.9601		50900	50000	1.9	50.0
13C5 PFPeA	Ave	0.8851	0.8516		48100	50000	-3.8	50.0
13C3 PFBS	Ave	0.8694	0.8248		44100	46500	-5.1	50.0
M2-4:2 FTS	Ave	0.0841	0.0993		55100	46700	18.1	50.0
13C2 PFHxA	Ave	0.8791	0.8651		49200	50000	-1.6	50.0
13C3 HFPO-DA	Ave	0.0564	0.0462		40900	50000	-18.2	50.0
13C4 PFHpA	Ave	0.8611	0.8195		47600	50000	-4.8	50.0
1802 PFHxS	Ave	0.5092	0.4565		42400	47300	-10.3	50.0
M2-6:2 FTS	Ave	0.1060	0.1081		48500	47500	2.0	50.0
13C4 PFOA	Ave	0.9094	0.7927		43600	50000	-12.8	50.0
13C4 PFOS	Ave	0.4242	0.3572		40300	47800	-15.8	50.0
13C5 PFNA	Ave	0.8296	0.7769		46800	50000	-6.4	50.0
13C2 PFDA	Ave	0.6637	0.7209		54300	50000	8.6	50.0
M2-8:2 FTS	Ave	0.0978	0.1051		51500	47900	7.4	50.0
13C8 FOSA	Ave	0.7620	0.7862		51600	50000	3.2	50.0
d3-NMeFOSAA	Ave	0.0848	0.0655		38600	50000	-22.8	50.0
13C2 PFUnA	Ave	0.6045	0.6009		49700	50000	-0.6	50.0
d5-NEtFOSAA	Ave	0.0945	0.0726		38400	50000	-23.2	50.0
13C2 PFDoA	Ave	0.6507	0.6432		49400	50000	-1.2	50.0
13C2 PFTeDA	Ave	0.8960	0.6715		37500	50000	-25.1	50.0
13C2 PFHxDA	Ave	0.7972	0.7197		45100	50000	-9.7	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37090.b\SC080119A002.d  
 Lims ID: CCVL  
 Client ID:  
 Sample Type: CCVL  
 Inject. Date: 01-Aug-2019 14:26:16 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: CCVL  
 Misc. Info.: 200-0037090-002 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37090.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 07-Aug-2019 15:09:35 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0306

First Level Reviewer: chirgwinb Date: 01-Aug-2019 14:39:11

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.683	1.678	0.005	1.003	88125	1.01		101	23.0	
D 1 13C4 PFBA										
217.00 > 172.00	1.678	1.678	0.0	0.510	4736314	50.9		102	17196	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.034	2.034	0.0	1.000	86159	1.06		106	4.9	
D 3 13C5 PFPeA										
267.90 > 223.00	2.034	2.034	0.0	0.618	4201347	48.1		96.2	10711	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.055	2.054	0.001	1.000	76321	0.9225	Target=1.90	104	409	
298.90 > 99.00	2.055	2.054	0.001	1.000	36939		2.07(0.95-2.85)		60.0	
D 47 13C3 PFBS										
301.90 > 80.00	2.055	2.054	0.001	0.625	3784284	44.1		94.9	808122	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.381	2.371	0.010	1.000	194850	8.32		89.1	1877	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.381	2.371	0.010	0.724	457615	55.1		118	692	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.417	2.408	0.009	1.000	95613	1.09	Target=13.23	109	37.4	
313.00 > 119.00	2.417	2.408	0.009	1.000	6862		13.93(6.61-19.84)		15.9	
D 7 13C2 PFHxA										
315.00 > 270.00	2.417	2.408	0.009	0.735	4267777	49.2		98.4	9505	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.426	2.417	0.009	1.181	66808	0.9178	Target=2.73	97.8	401	
349.00 > 99.00	2.426	2.417	0.009	1.181	23270		2.87(1.37-4.10)		72.7	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.546	2.545	0.001	1.000	14545	1.26		126	3.7	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.546	2.545	0.001	0.774	227745	40.9		81.8	1196	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.862	2.851	0.011	1.000	59377	1.00	Target=3.37	110	74.0	M
399.00 > 99.00	2.862	2.851	0.011	1.000	17068		3.48(1.69-5.06)		24.1	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.872	2.851	0.021	1.004	82510	1.09	Target=3.76	109	23.9	
363.00 > 169.00	2.872	2.851	0.021	1.004	21724		3.80(1.88-5.65)		131	
D 9 13C4 PFHpA										
367.00 > 322.00	2.862	2.851	0.011	0.870	4042847	47.6		95.2	6729	
D 11 18O2 PFHxS										
403.00 > 84.00	2.862	2.851	0.011	0.870	2130410	42.4		89.7	4905	
77 DONA										
377.00 > 251.00	2.917	2.905	0.012	0.800	161192	0.9620	Target=2.72	102	139	
377.00 > 85.00	2.917	2.905	0.012	0.800	65681		2.45(1.36-4.07)		107	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.281	3.270	0.011	0.899	43915	1.03	Target=4.80	109	295	
449.00 > 99.00	3.281	3.270	0.011	0.899	8053		5.45(2.40-7.20)		50.0	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.281	3.270	0.011	1.000	142516	7.79		82.2	890	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.281	3.270	0.011	0.997	506757	48.5		102	1398	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.290	3.279	0.011	1.000	100853	1.19	Target=2.84	119	12.6	
413.00 > 169.00	3.290	3.279	0.011	1.000	38688		2.61(1.42-4.25)		139	
* 62 13C2 PFOA										
415.00 > 370.00	3.290	3.279	0.011		4933248	50.0			9637	
D 14 13C4 PFOA										
417.00 > 372.00	3.290	3.279	0.011	1.000	3910541	43.6		87.2	12971	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.648	3.640	0.008	1.000	34300	1.03	Target=4.33	111	177	M
499.00 > 99.00	3.648	3.640	0.008	1.000	7530		4.56(2.16-6.49)		51.3	M
D 18 13C4 PFOS										
503.00 > 80.00	3.648	3.640	0.008	1.109	1684762	40.3		84.2	7795	
20 Perfluorononanoic acid										
463.00 > 419.00	3.665	3.657	0.008	1.000	70752	1.02	Target=8.15	102	28.4	
463.00 > 169.00	3.665	3.657	0.008	1.000	8634		8.19(4.08-12.23)		184	
D 19 13C5 PFNA										
468.00 > 423.00	3.665	3.657	0.008	1.114	3832503	46.8		93.6	29798	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.818	3.819	-0.001	1.047	66159	0.8632		92.6	261	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.953	3.954	-0.001	1.084	35522	1.19	Target=2.42	124	532	
549.00 > 99.00	3.953	3.954	-0.001	1.084	15580		2.28(1.21-3.63)		47.0	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.986	3.987	-0.001	1.000	75198	1.09	Target=9.58	109	45.1	
513.00 > 169.00	3.986	3.987	-0.001	1.000	7983		9.42(4.79-14.37)		55.4	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni	527.00 > 507.00	3.998	3.987	0.011	1.000	104504	7.54	78.7	1265	
D 26 M2-8:2 FTS	529.00 > 81.00	3.998	3.987	0.011	1.215	496453	51.5	107	1446	
D 23 13C2 PFDA	515.00 > 470.00	3.986	3.987	-0.001	1.211	3556133	54.3	109	11668	
D 21 13C8 FOSA	506.00 > 78.00	4.010	4.011	-0.001	1.219	3878509	51.6	103	9620	
22 Perfluorooctanesulfonamide	498.00 > 78.00	4.022	4.011	0.011	1.003	66715	0.9421	94.2	455	
28 N-methylperfluorooctanesulfonamido	570.00 > 419.00	4.133	4.135	-0.002	1.000	50682	10.4	104	110	
D 27 d3-NMeFOSAA	573.00 > 419.00	4.133	4.135	-0.002	1.256	322948	38.6	77.2	3653	
29 Perfluorodecanesulfonic acid	599.00 > 80.00	4.234	4.235	-0.001	1.161	24460	1.05	Target=2.64	109	305
	599.00 > 99.00	4.234	4.235	-0.001	1.161	9887		2.47(1.32-3.96)		43.3
31 Perfluoroundecanoic acid	563.00 > 519.00	4.258	4.260	-0.002	1.000	50203	0.9869	Target=7.95	98.7	20.2
	563.00 > 169.00	4.258	4.260	-0.002	1.000	6791		7.39(3.98-11.93)		74.5
D 30 13C2 PFUnA	565.00 > 520.00	4.258	4.260	-0.002	1.294	2964326	49.7	99.4	12426	
33 N-ethylperfluorooctanesulfonamidoa	584.00 > 419.00	4.283	4.272	0.011	1.003	44702	9.75	97.5	419	
D 32 d5-NEtFOSAA	589.00 > 419.00	4.270	4.272	-0.002	1.298	358081	38.4	76.8	1280	
66 11-Chloroeicosafuoro-3-oxaundecan	631.00 > 451.00	4.355	4.356	-0.001	1.194	96719	0.8290	88.0	946	
37 Perfluorododecanoic acid	613.00 > 569.00	4.499	4.512	-0.013	1.000	70437	1.09	Target=7.49	109	12.3
	613.00 > 169.00	4.511	4.512	-0.001	1.003	11984		5.88(3.75-11.24)		199
D 36 13C2 PFDaA	615.00 > 570.00	4.499	4.512	-0.013	1.367	3173098	49.4	98.8	7489	
74 1H,1H,2H,2H-perfluorododecanesulfo	627.00 > 607.00	4.524	4.524	0.0	1.132	64183	7.32	75.9	1572	
75 Perfluorododecanesulfonic acid (PF	699.00 > 80.00	4.685	4.685	0.0	1.284	14031	1.25	Target=0.50	129	23.8
	699.00 > 99.00	4.685	4.685	0.0	1.284	26525		0.53(0.25-0.76)		194
41 Perfluorotridecanoic acid	663.00 > 619.00	4.730	4.730	0.0	1.051	58622	1.01	Target=5.71	101	7.2
	663.00 > 169.00	4.719	4.730	-0.012	1.049	11836		4.95(2.85-8.56)		119
42 Perfluorotetradecanoic acid	713.00 > 169.00	4.932	4.939	-0.007	1.000	11388	1.29	Target=1.02	129	130
	713.00 > 219.00	4.932	4.939	-0.007	1.000	10942		1.04(0.51-1.54)		167
D 43 13C2 PFTeDA	715.00 > 670.00	4.932	4.939	-0.007	1.499	3312813	37.5	74.9	9022	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.367	5.359	0.008	1.001	98002	1.07	Target=5.23	107	35.7	
813.00 > 169.00	5.359	5.359	0.0	1.000	21135		4.64(2.62-7.85)		406	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.359	5.359	0.0	1.629	3550558	45.1		90.3	6372	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.796	5.796	0.0	1.082	45546	0.8531	Target=5.61	85.3	43.6	
913.00 > 169.00	5.796	5.796	0.0	1.082	10624		4.29(2.80-8.41)		218	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

LCPFAS32-LOQV\_00001

Amount Added: 100.00

Units: uL



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37090.b\SC080119A002.d

Injection Date: 01-Aug-2019 14:26:16

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

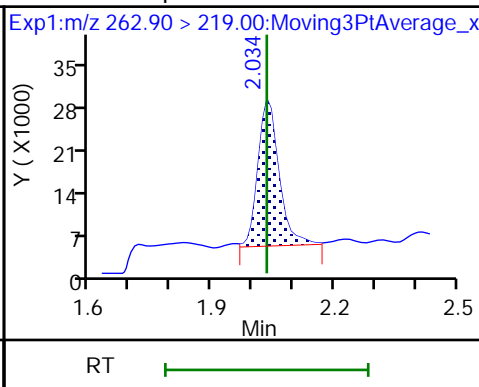
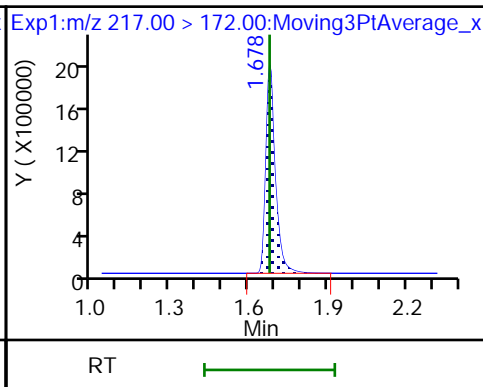
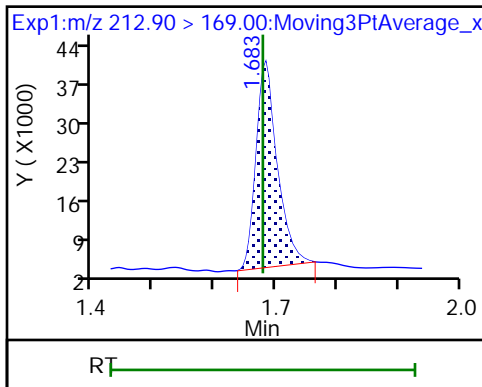
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

2 Perfluorobutanoic acid

D 1 13C4 PFBA

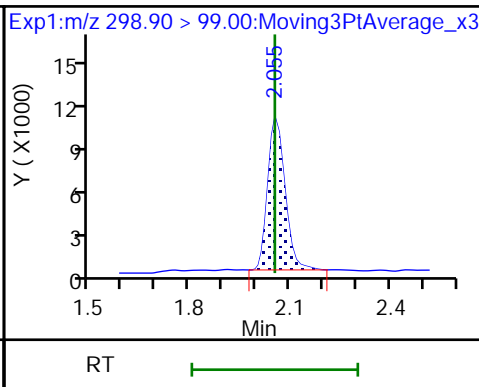
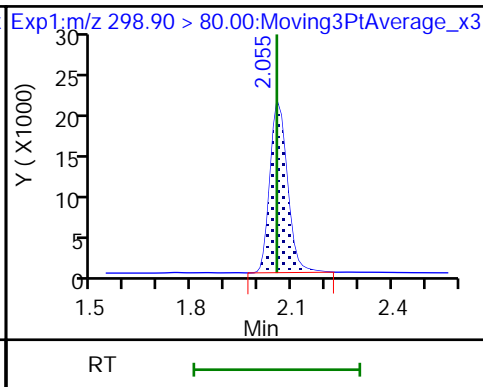
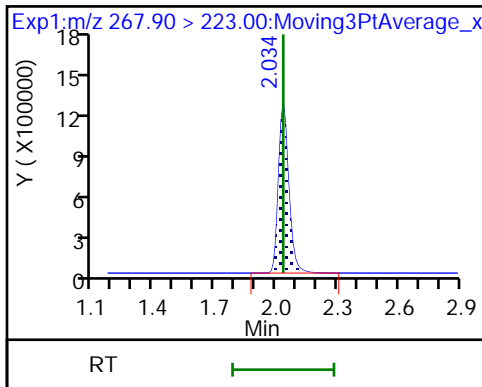
4 Perfluoropentanoic acid



D 3 13C5 PFPeA

5 Perfluorobutanesulfonic acid

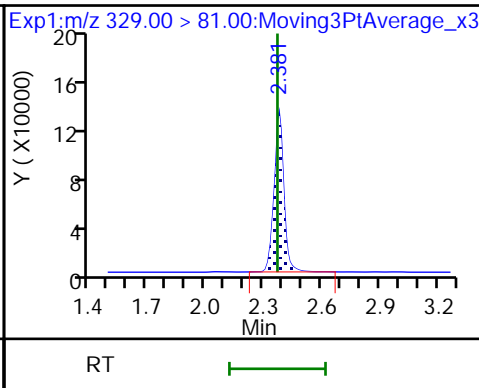
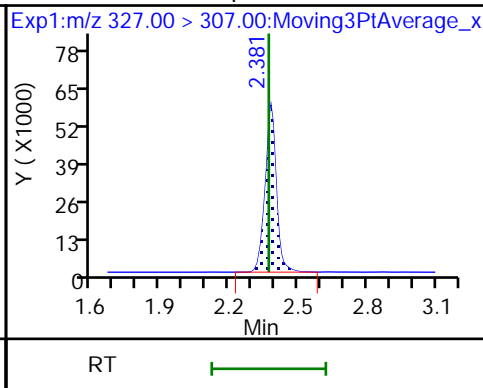
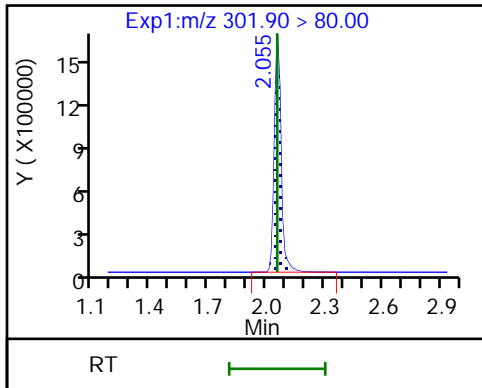
5 Perfluorobutanesulfonic acid



D 47 13C3 PFBS

61 1H,1H,2H,2H-perfluorohexanesulfonate

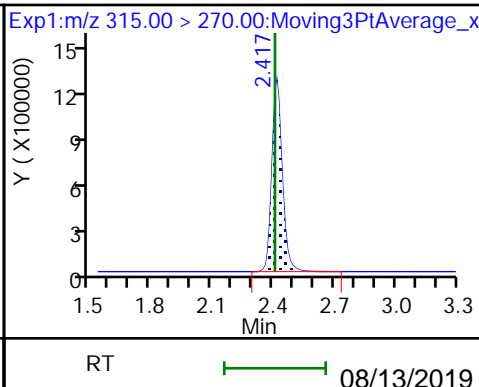
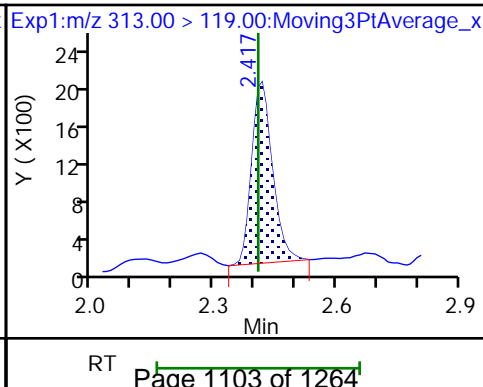
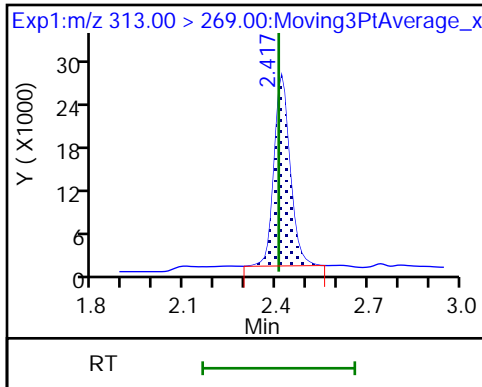
D 60 M2-4:2 FTS

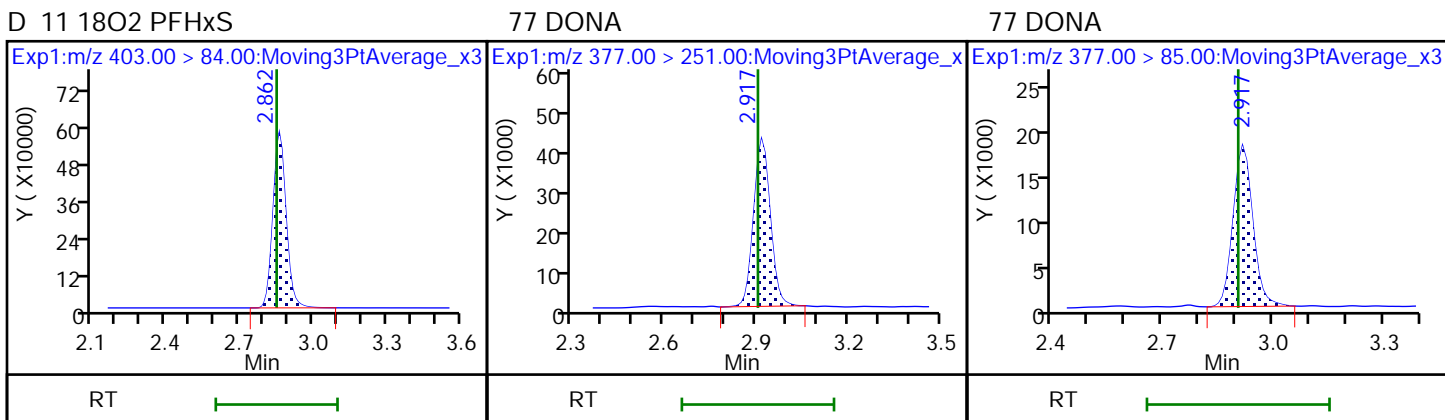
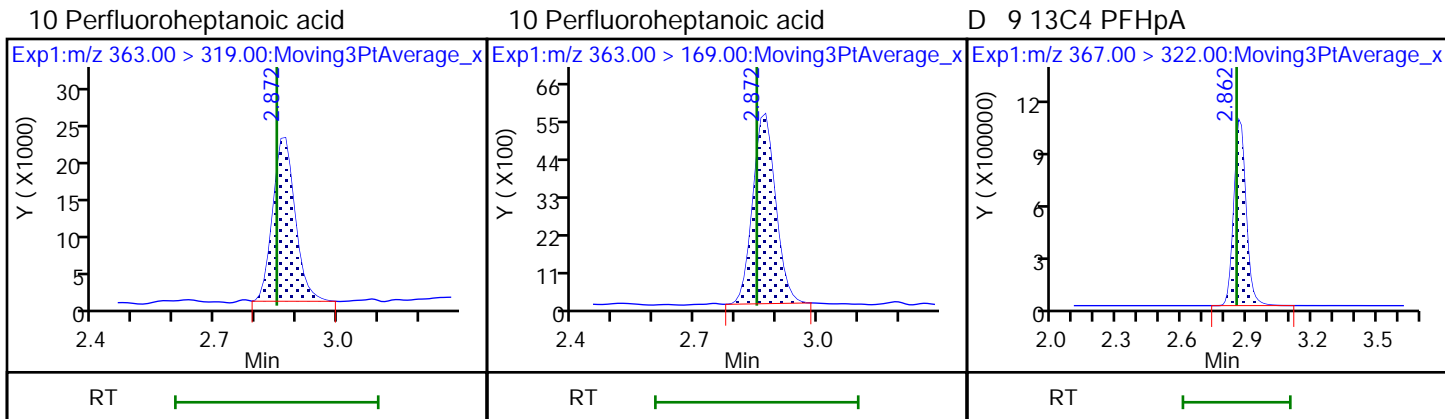
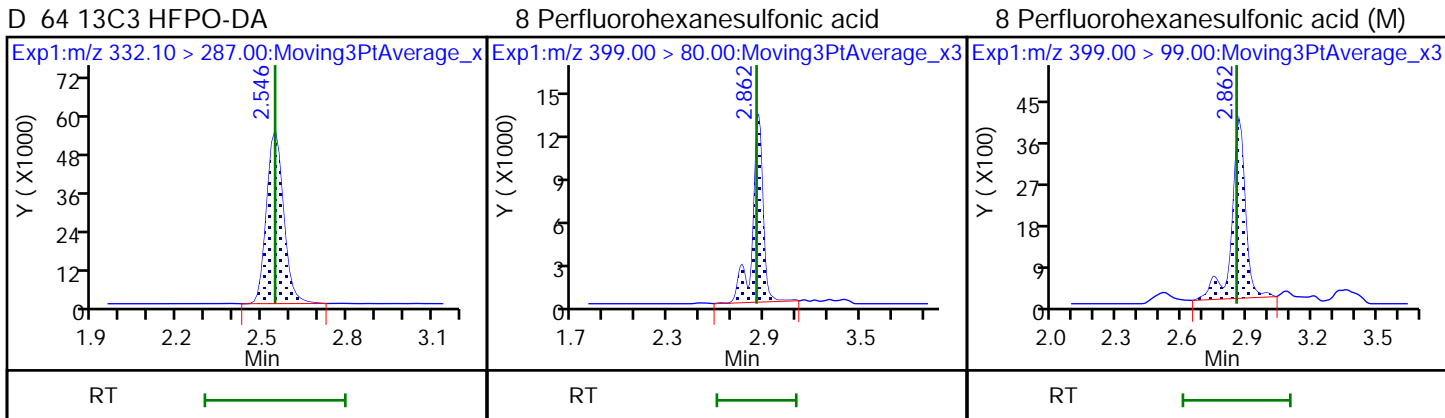
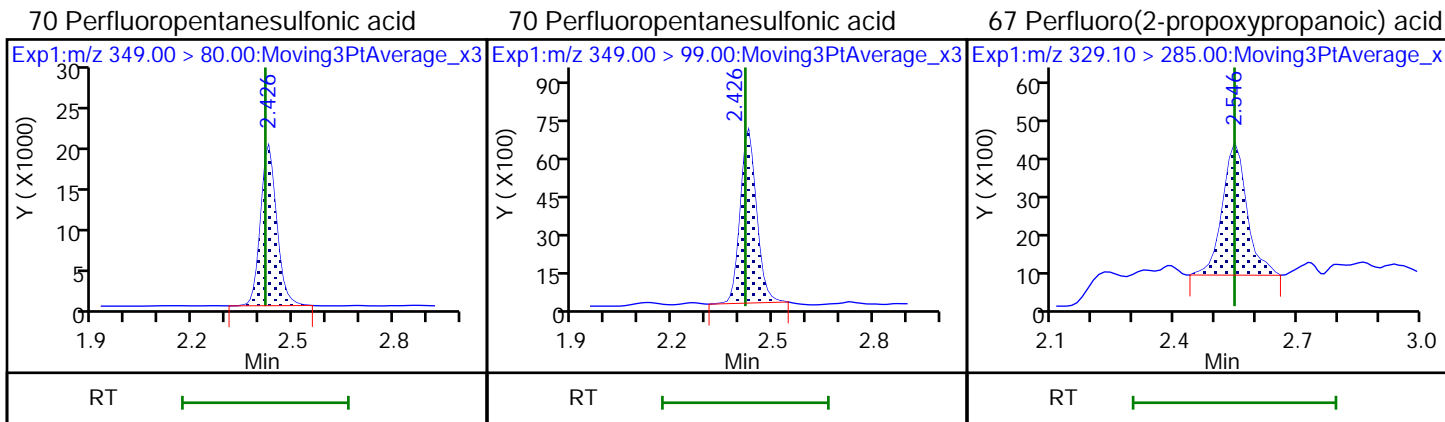


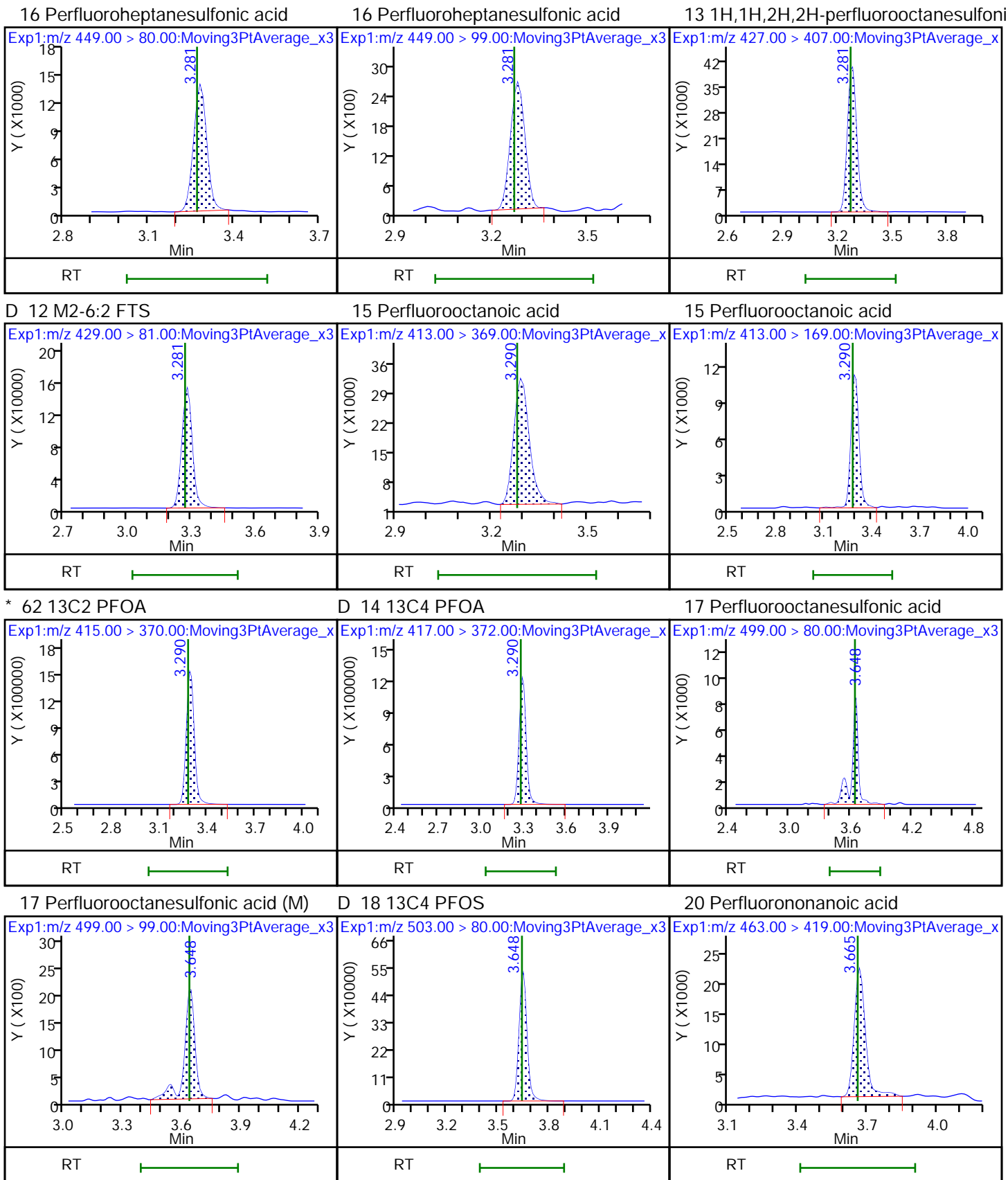
6 Perfluorohexanoic acid

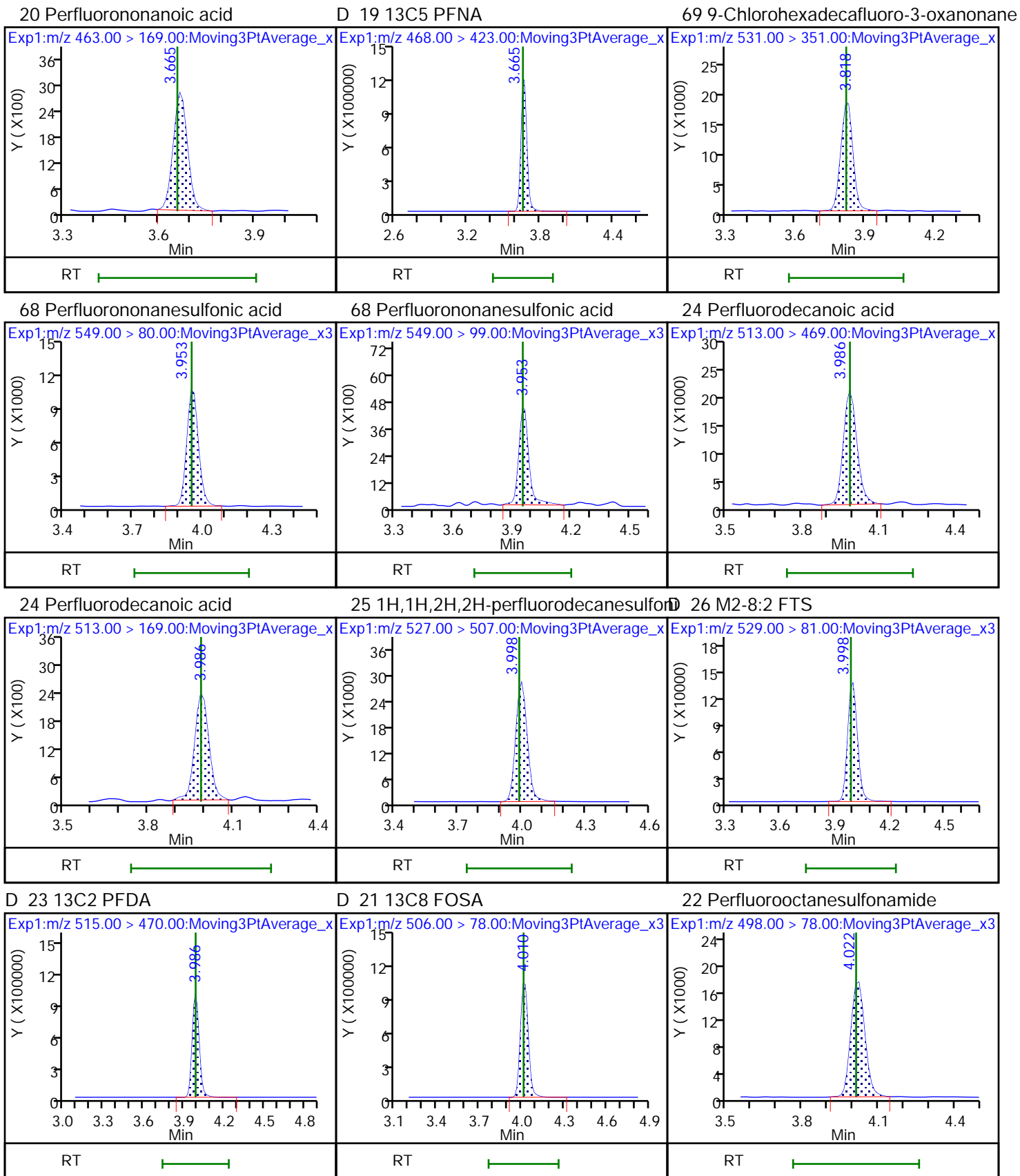
6 Perfluorohexanoic acid

D 7 13C2 PFHxA



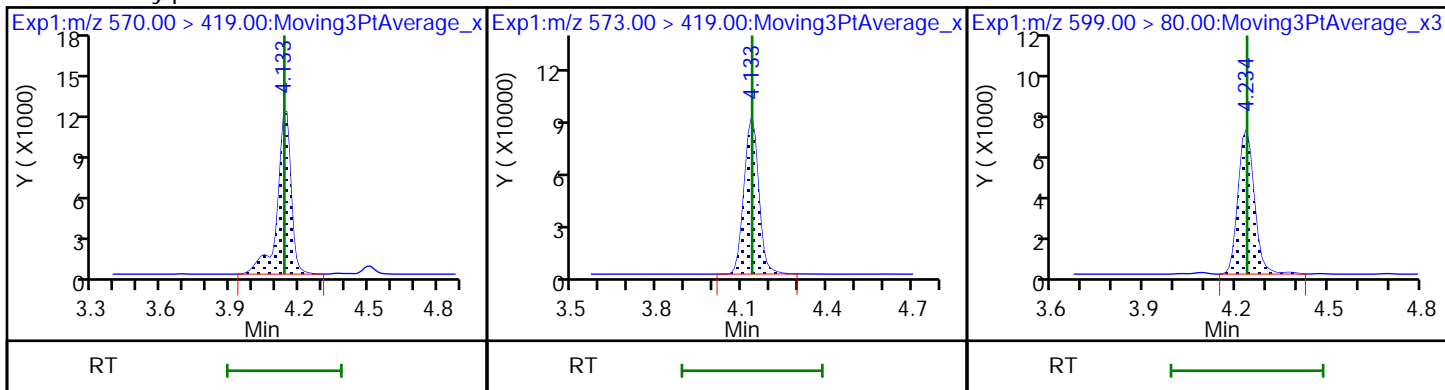






28 N-methylperfluorooctanesulfonamidD 27 d3-NMeFOSAA

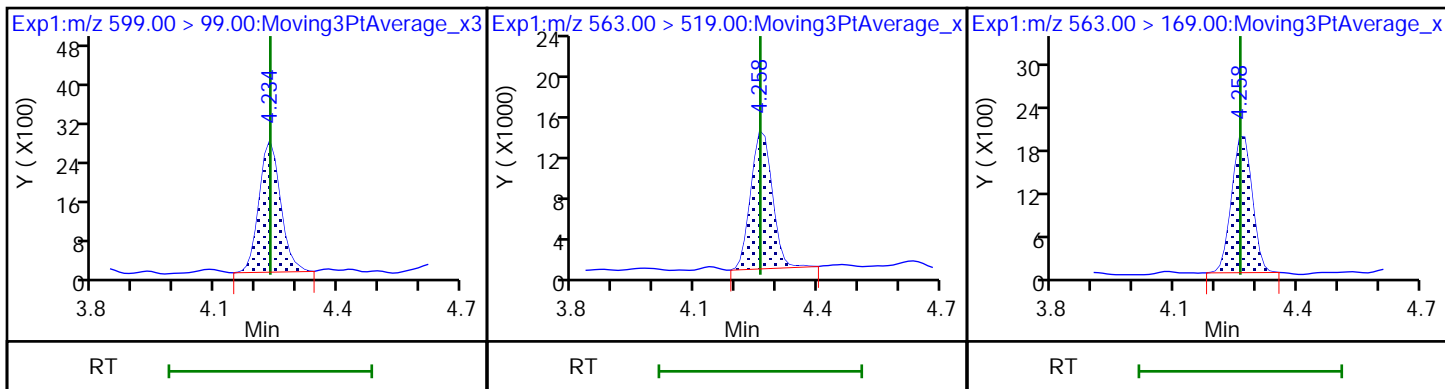
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

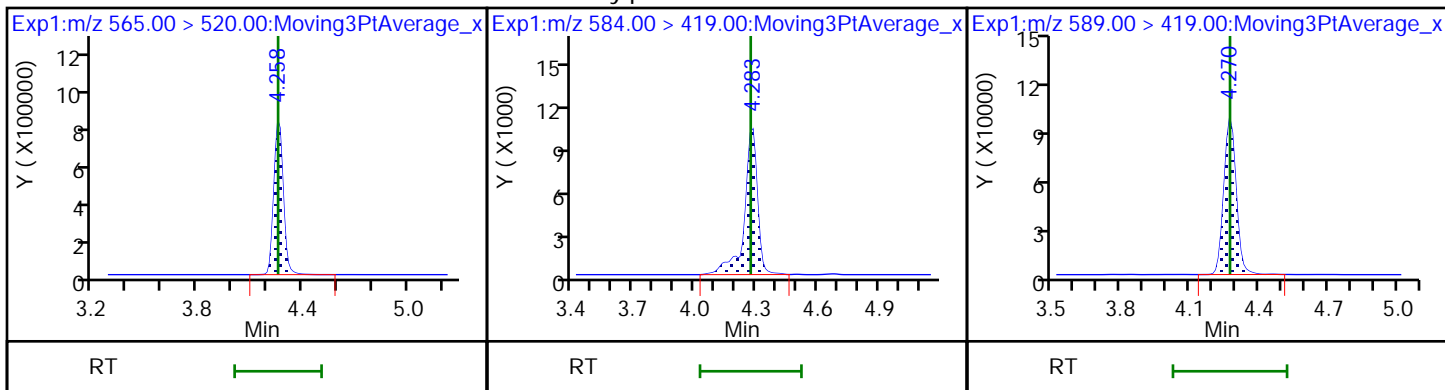
31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid



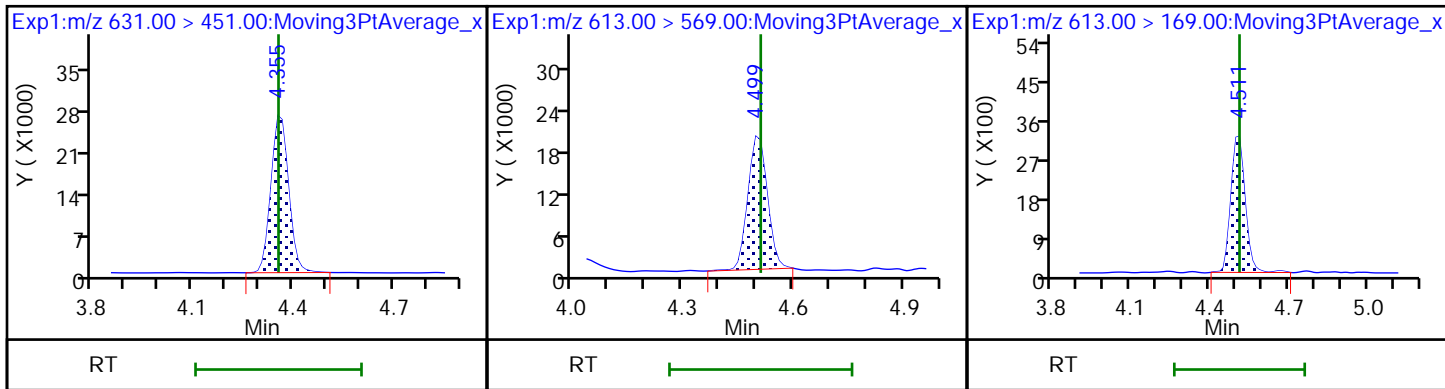
D 30 13C2 PFUnA

33 N-ethylperfluorooctanesulfonamidD 32 d5-NEtFOSAA



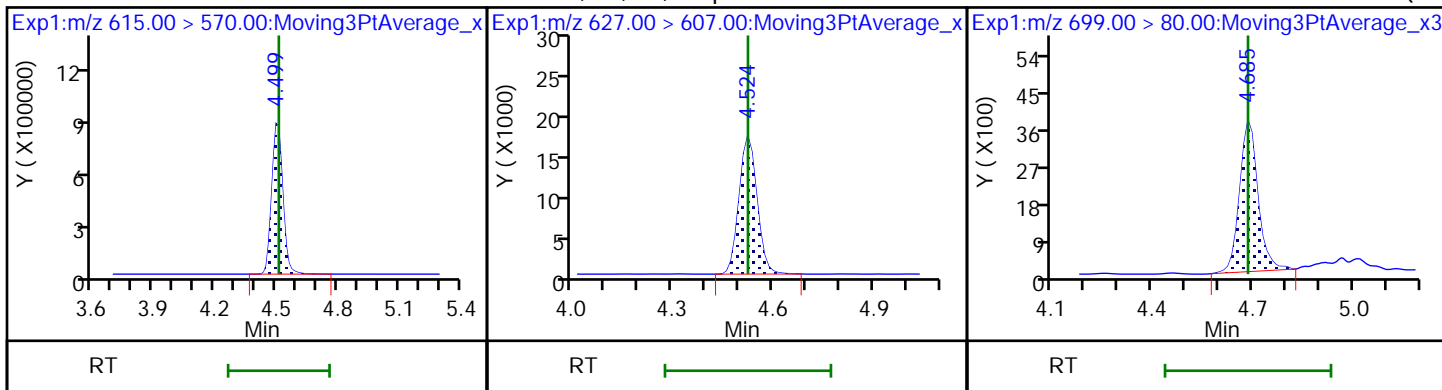
66 11-Chloroeicosafuoro-3-oxaundecan 37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDaA

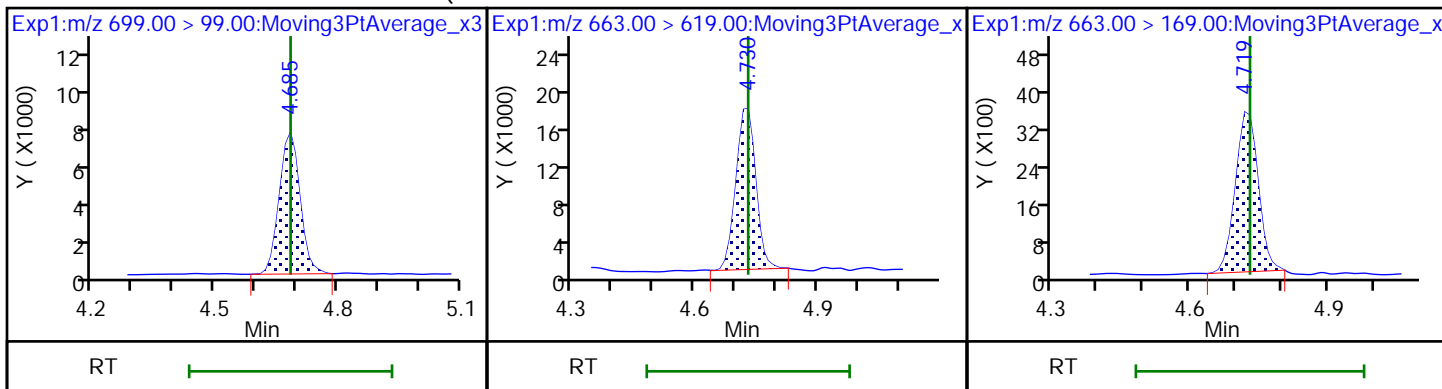
74 1H,1H,2H,2H-perfluorododecanesulfo75 Perfluorododecanesulfonic acid (PF (M)



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

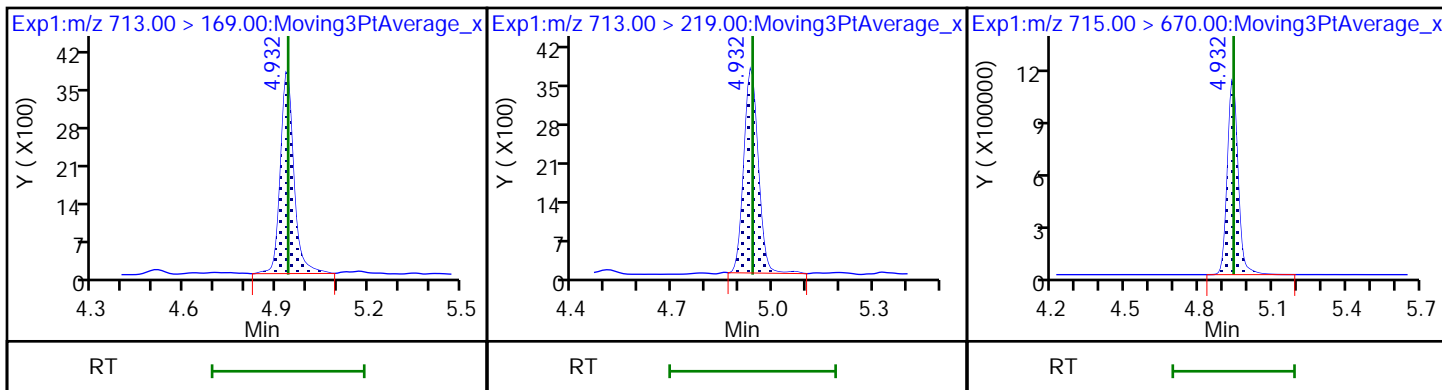
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

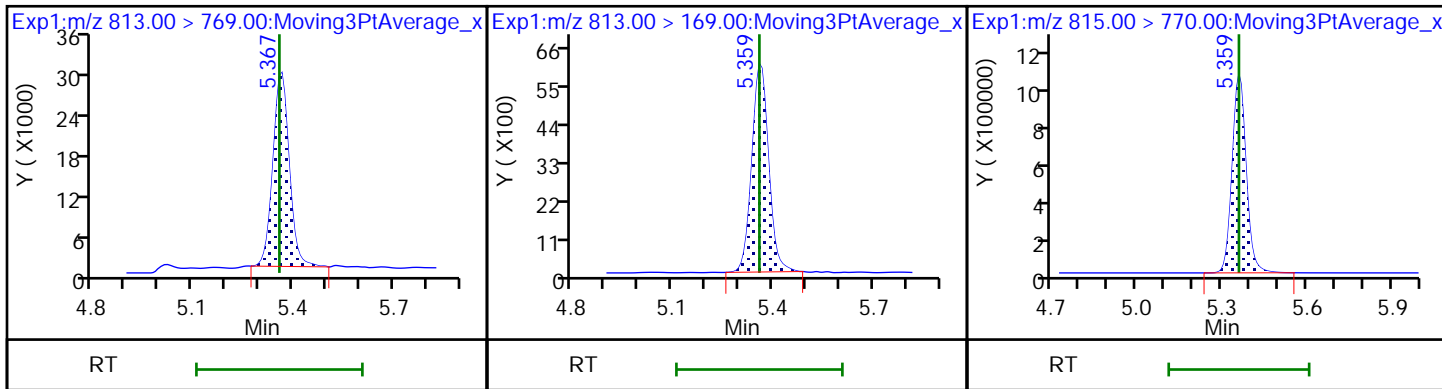
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

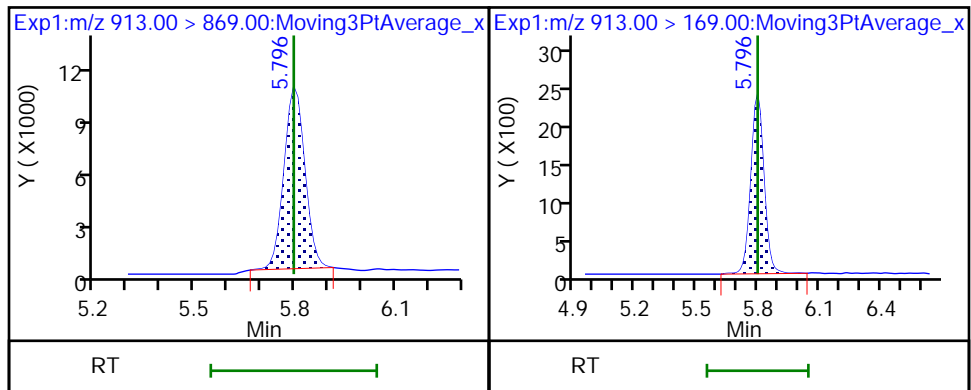
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

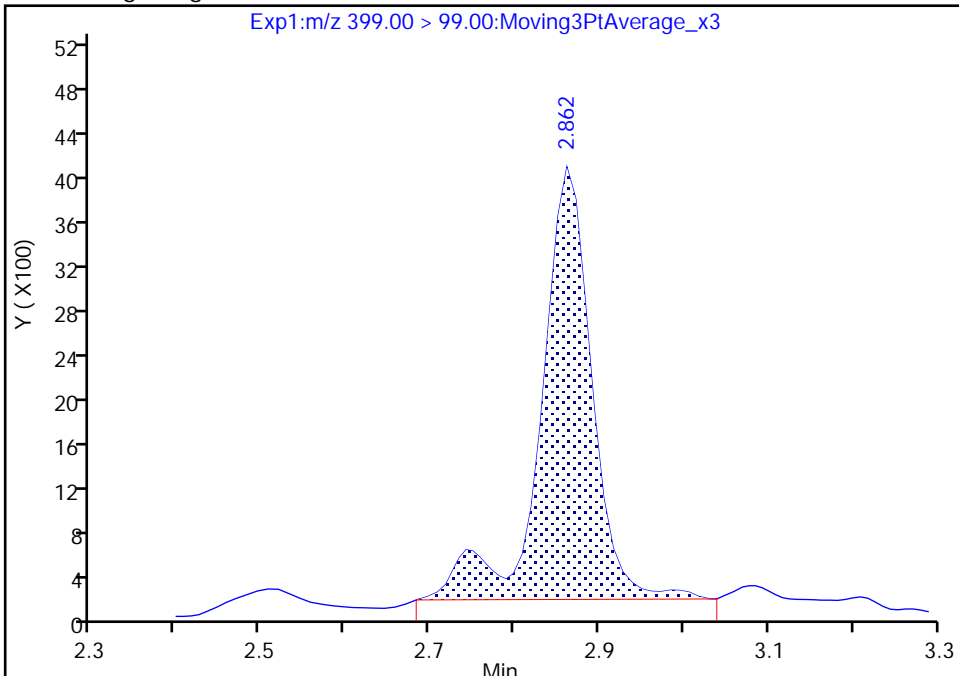
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Injection Date: 01-Aug-2019 14:26:16 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

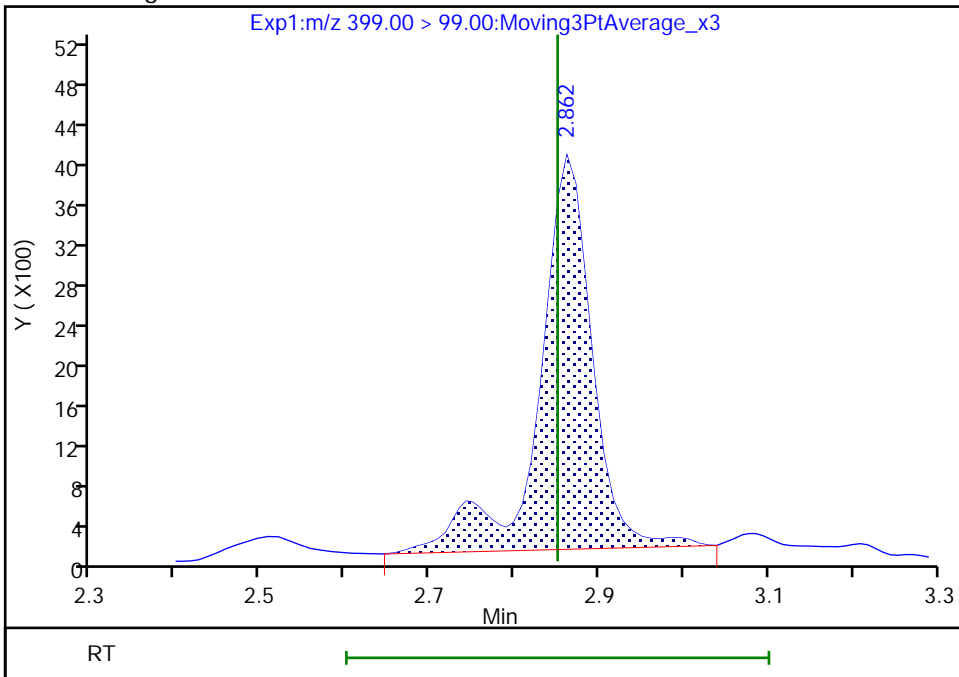
RT: 2.86  
Area: 16297  
Amount: 1.000391  
Amount Units: ng/ml

Processing Integration Results



RT: 2.86  
Area: 17068  
Amount: 1.000391  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 01-Aug-2019 14:37:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

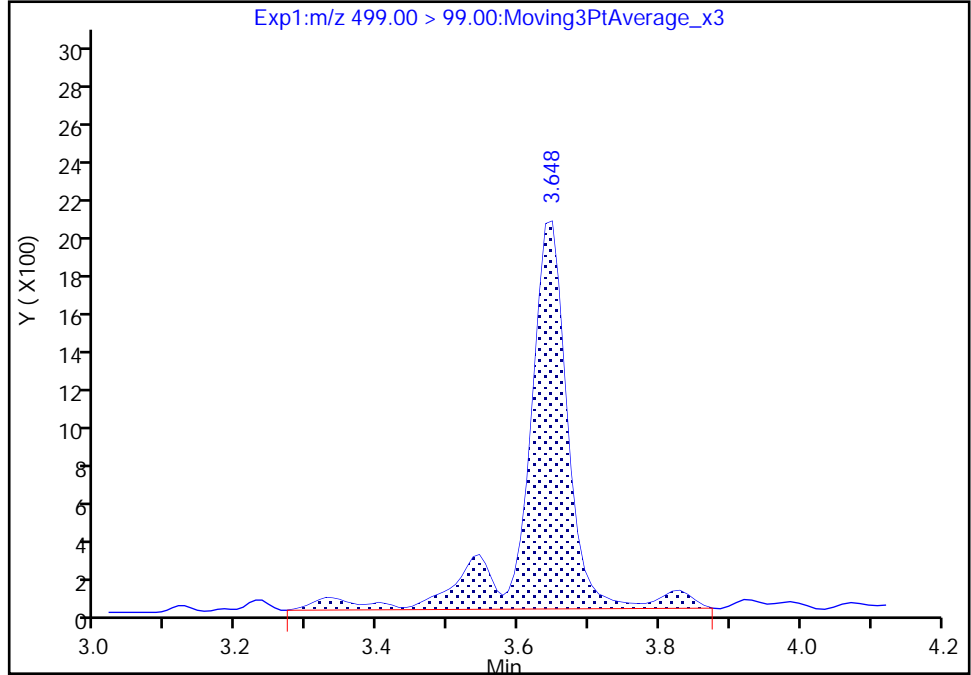
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Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

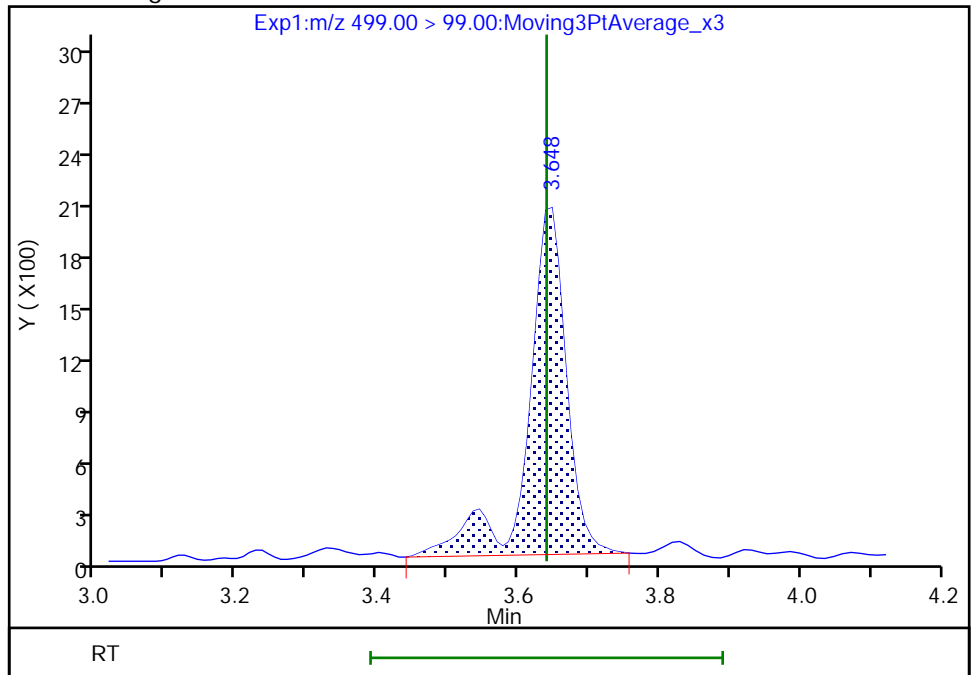
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Area: 8533  
Amount: 1.028147  
Amount Units: ng/ml

Processing Integration Results



RT: 3.65  
Area: 7530  
Amount: 1.028147  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 01-Aug-2019 14:37:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

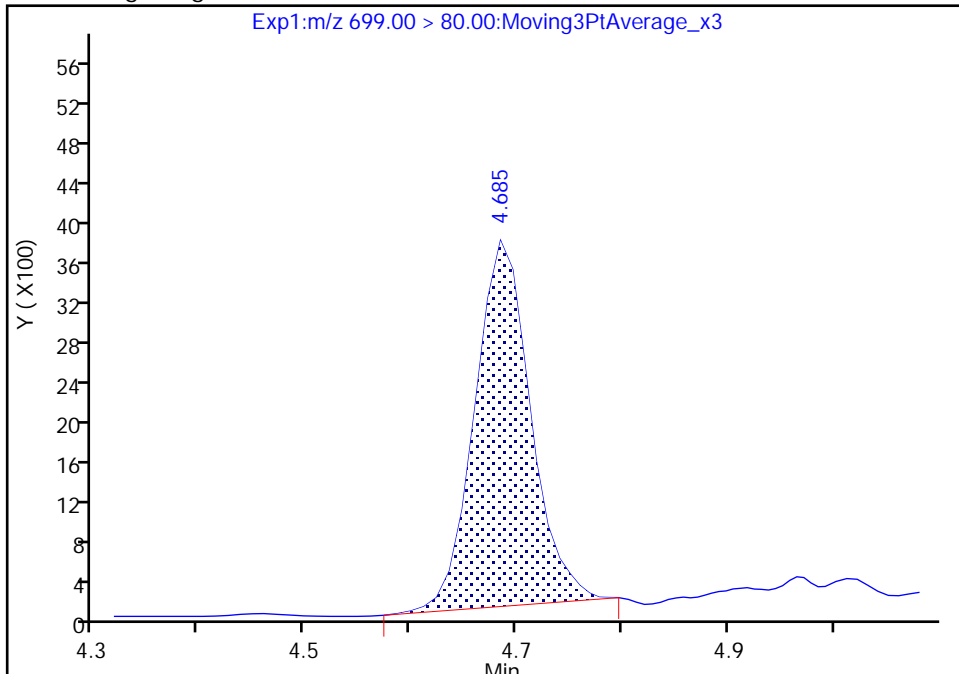
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Injection Date: 01-Aug-2019 14:26:16 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (PFDoS), CAS: 79780-39-5

Signal: 1

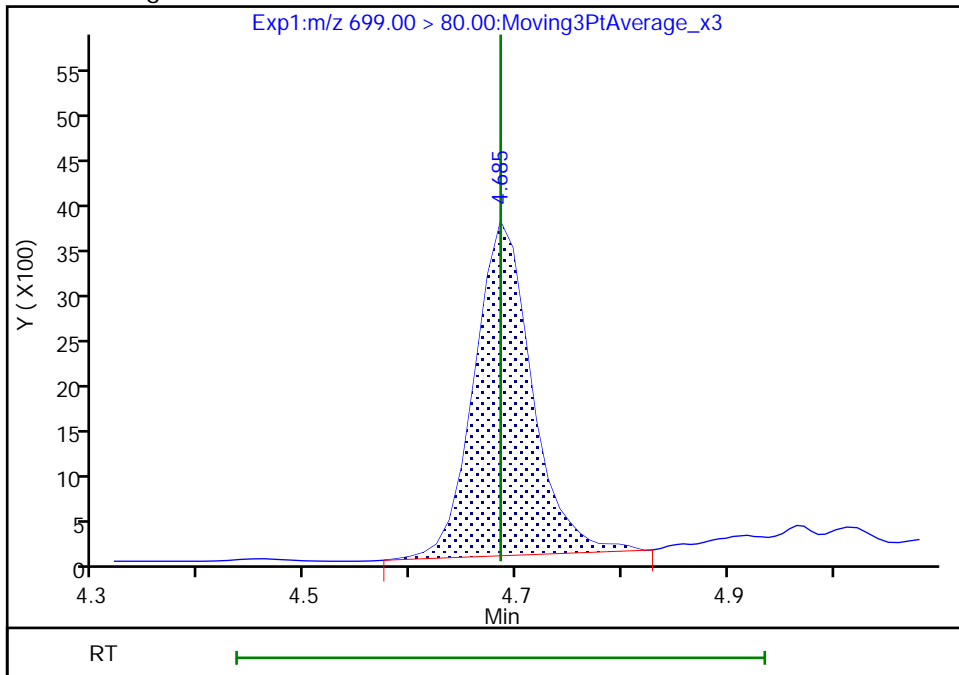
RT: 4.68  
Area: 13456  
Amount: 1.202153  
Amount Units: ng/ml

Processing Integration Results



RT: 4.68  
Area: 14031  
Amount: 1.253523  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 01-Aug-2019 14:38:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-145757/3 Calibration Date: 08/01/2019 14:34  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119A003.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9217	0.9326		20200	20000	1.2	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.9677	0.9454		19500	20000	-2.3	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.017	1.062		18500	17700	4.4	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.389	2.121		16600	18700	-11.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.030	1.039		20200	20000	0.9	40.0
Perfluoropentanesulfonic acid	AveID	0.8944	0.9428		19800	18800	5.4	50.0
HFPO-DA	AveID	2.541	2.029		16000	20000	-20.2	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9367	0.9318		19900	20000	-0.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.318	1.293		17900	18200	-1.9	40.0
DONA	AveID	4.754	4.746		18800	18800	-0.2	50.0
6:2 FTS	AveID	1.715	1.426		15800	19000	-16.9	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.205	1.237		19500	19000	2.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.032		19000	20000	-5.2	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9465	0.9479		18600	18600	0.1	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9059	0.9498		21000	20000	4.8	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	2.174	1.874		16100	18600	-13.8	50.0
Perfluorononanesulfonic acid	AveID	0.8445	0.8940		20300	19200	5.9	50.0
8:2 FTS	AveID	1.337	0.9698		13900	19200	-27.5	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9682	0.9944		20500	20000	2.7	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9129	0.8970		19700	20000	-1.7	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7567	0.8407		22200	20000	11.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6627	0.7670		22300	19300	15.7	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8581	0.8664		20200	20000	1.0	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6400	0.5805		18100	20000	-9.3	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	3.310	2.762		15700	18800	-16.6	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.022	1.104		21600	20000	8.0	40.0
10:2 FTS	AveID	0.8462	0.6122		13900	19300	-27.7	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3176	0.3454		21100	19400	8.8	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.9176	0.8985		19600	20000	-2.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1331	0.1567		23500	20000	17.7	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-145757/3 Calibration Date: 08/01/2019 14:34  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119A003.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9936		20600	20000	3.2	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7518	0.6881		18300	20000	-8.5	50.0
13C4 PFBA	Ave	0.9423	0.9715		51500	50000	3.1	50.0
13C5 PFPeA	Ave	0.8851	0.8858		50000	50000	0.0	50.0
13C3 PFBS	Ave	0.8694	0.7954		42500	46500	-8.5	50.0
M2-4:2 FTS	Ave	0.0841	0.0954		53000	46700	13.4	50.0
13C2 PFHxA	Ave	0.8791	0.8427		47900	50000	-4.1	50.0
13C3 HFPO-DA	Ave	0.0564	0.0595		52700	50000	5.4	50.0
13C4 PFHpA	Ave	0.8611	0.8479		49200	50000	-1.5	50.0
1802 PFHxS	Ave	0.5092	0.4713		43800	47300	-7.4	50.0
M2-6:2 FTS	Ave	0.1060	0.1060		47500	47500	-0.0	50.0
13C4 PFOA	Ave	0.9094	0.8528		46900	50000	-6.2	50.0
13C4 PFOS	Ave	0.4242	0.3843		43300	47800	-9.4	50.0
13C5 PFNA	Ave	0.8296	0.7973		48100	50000	-3.9	50.0
13C2 PFDA	Ave	0.6637	0.6754		50900	50000	1.8	50.0
M2-8:2 FTS	Ave	0.0978	0.1068		52300	47900	9.3	50.0
13C8 FOSA	Ave	0.7620	0.8027		52700	50000	5.3	50.0
d3-NMeFOSAA	Ave	0.0848	0.0642		37900	50000	-24.3	50.0
13C2 PFUnA	Ave	0.6045	0.5958		49300	50000	-1.4	50.0
d5-NEtFOSAA	Ave	0.0945	0.0745		39400	50000	-21.2	50.0
13C2 PFDoA	Ave	0.6507	0.6171		47400	50000	-5.2	50.0
13C2 PFTeDA	Ave	0.8960	0.6844		38200	50000	-23.6	50.0
13C2 PFHxDA	Ave	0.7972	0.6760		42400	50000	-15.2	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37090.b\SC080119A003.d  
 Lims ID: CCV L4  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 01-Aug-2019 14:34:18 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L4  
 Misc. Info.: 200-0037090-003 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37090.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 07-Aug-2019 15:09:39 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0306

First Level Reviewer: chirgwinb Date: 01-Aug-2019 14:44:59

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutanoic acid										
212.90 > 169.00	1.678	1.678	0.0	1.000	1818629	20.2		101	485	
D 1 13C4 PFBA										
217.00 > 172.00	1.678	1.678	0.0	0.512	4875121	51.5		103	17947	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.034	2.034	0.0	1.000	1680777	19.5		97.7	97.2	
D 3 13C5 PFPeA										
267.90 > 223.00	2.034	2.034	0.0	0.620	4444713	50.0		100	10260	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.054	2.054	0.0	1.000	1498272	18.5	Target=1.90	104	4870	
298.90 > 99.00	2.054	2.054	0.0	1.000	781375		1.92(0.95-2.85)		1053	
D 47 13C3 PFBS										
301.90 > 80.00	2.054	2.054	0.0	0.626	3711844	42.5		91.5	748415	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.371	2.371	0.0	1.000	379330	16.6		88.8	3061	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.371	2.371	0.0	0.723	447111	53.0		113	627	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.408	2.408	0.0	1.000	1757886	20.2	Target=13.23	101	670	
313.00 > 119.00	2.408	2.408	0.0	1.000	139548		12.60(6.61-19.84)		370	
D 7 13C2 PFHxA										
315.00 > 270.00	2.408	2.408	0.0	0.734	4228661	47.9		95.9	9596	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.417	2.417	0.0	1.176	1411840	19.8	Target=2.73	105	3829	
349.00 > 99.00	2.417	2.417	0.0	1.176	490959		2.88(1.37-4.10)		1447	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.545	2.545	0.0	1.000	242155	16.0		79.8	62.7	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.545	2.545	0.0	0.776	298343	52.7		105	1689	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.851	2.851	0.0	1.000	1113280	17.9	Target=3.37	98.1	1241	M
399.00 > 99.00	2.851	2.851	0.0	1.000	309005		3.60(1.69-5.06)		437	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.851	2.851	0.0	1.000	1585743	19.9	Target=3.76	99.5	431	
363.00 > 169.00	2.851	2.851	0.0	1.000	424883		3.73(1.88-5.65)		1982	
D 9 13C4 PFHpA										
367.00 > 322.00	2.851	2.851	0.0	0.869	4254676	49.2		98.5	8017	
D 11 18O2 PFHxS										
403.00 > 84.00	2.851	2.851	0.0	0.869	2237164	43.8		92.6	6447	
77 DONA										
377.00 > 251.00	2.905	2.905	0.0	0.798	3448154	18.8	Target=2.72	99.8	2396	
377.00 > 85.00	2.905	2.905	0.0	0.798	1306068		2.64(1.36-4.07)		1724	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.270	3.270	0.0	0.898	908007	19.5	Target=4.80	103	3218	
449.00 > 99.00	3.270	3.270	0.0	0.898	175913		5.16(2.40-7.20)		1041	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.270	3.270	0.0	1.000	287492	15.8		83.1	2141	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.270	3.270	0.0	0.997	505175	47.5		100	1500	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.279	3.279	0.0	1.000	1765764	19.0	Target=2.84	94.8	226	
413.00 > 169.00	3.279	3.279	0.0	1.000	685563		2.58(1.42-4.25)		2582	
* 62 13C2 PFOA										
415.00 > 370.00	3.279	3.279	0.0		5017980	50.0			7960	
D 14 13C4 PFOA										
417.00 > 372.00	3.279	3.279	0.0	1.000	4279389	46.9		93.8	10333	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.640	3.640	0.0	1.000	678486	18.6	Target=4.33	100	1962	M
499.00 > 99.00	3.640	3.640	0.0	1.000	143861		4.72(2.16-6.49)		626	M
D 18 13C4 PFOS										
503.00 > 80.00	3.640	3.640	0.0	1.110	1843508	43.3		90.6	7583	
20 Perfluorononanoic acid										
463.00 > 419.00	3.657	3.657	0.0	1.000	1519941	21.0	Target=8.15	105	614	
463.00 > 169.00	3.657	3.657	0.0	1.000	180652		8.41(4.08-12.23)		1922	
D 19 13C5 PFNA										
468.00 > 423.00	3.657	3.657	0.0	1.115	4000894	48.1		96.1	12749	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.819	3.819	0.0	1.049	1347017	16.1		86.2	5469	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.954	3.954	0.0	1.086	661995	20.3	Target=2.42	106	3895	
549.00 > 99.00	3.954	3.954	0.0	1.086	278208		2.38(1.21-3.63)		665	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.987	3.987	0.0	1.000	1347984	20.5	Target=9.58	103	758	
513.00 > 169.00	3.987	3.987	0.0	1.000	154283		8.74(4.79-14.37)		1077	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni	527.00 > 507.00	3.987	3.987	0.0	1.000	199248	13.9	72.5	2474	
D 26 M2-8:2 FTS	529.00 > 81.00	3.987	3.987	0.0	1.216	513624	52.3	109	1506	
D 23 13C2 PFDA	515.00 > 470.00	3.987	3.987	0.0	1.216	3389096	50.9	102	10948	
D 21 13C8 FOSA	506.00 > 78.00	4.011	4.011	0.0	1.223	4027991	52.7	105	7418	
22 Perfluorooctanesulfonamide	498.00 > 78.00	4.011	4.011	0.0	1.000	1445310	19.7	98.3	4230	
28 N-methylperfluorooctanesulfonamido	570.00 > 419.00	4.135	4.135	0.0	1.000	108298	22.2	111	220	
D 27 d3-NMeFOSAA	573.00 > 419.00	4.135	4.135	0.0	1.261	322059	37.9	75.7	960	
29 Perfluorodecanesulfonic acid	599.00 > 80.00	4.235	4.235	0.0	1.164	570285	22.3	Target=2.64	116	4670
	599.00 > 99.00	4.235	4.235	0.0	1.164	221336		2.58(1.32-3.96)		1307
31 Perfluoroundecanoic acid	563.00 > 519.00	4.260	4.260	0.0	1.000	1036039	20.2	Target=7.95	101	499
	563.00 > 169.00	4.260	4.260	0.0	1.000	142120		7.29(3.98-11.93)		1490
D 30 13C2 PFUnA	565.00 > 520.00	4.260	4.260	0.0	1.299	2989615	49.3	98.6	5806	
33 N-ethylperfluorooctanesulfonamidoa	584.00 > 419.00	4.272	4.272	0.0	1.000	86750	18.1	90.7	678	
D 32 d5-NEtFOSAA	589.00 > 419.00	4.272	4.272	0.0	1.303	373573	39.4	78.8	1812	
66 11-Chloroeicosafuoro-3-oxaundecan	631.00 > 451.00	4.356	4.356	0.0	1.197	2007055	15.7	83.4	9238	
37 Perfluorododecanoic acid	613.00 > 569.00	4.512	4.512	0.0	1.000	1367742	21.6	Target=7.49	108	249
	613.00 > 169.00	4.512	4.512	0.0	1.000	199128		6.87(3.75-11.24)		2197
D 36 13C2 PFDaA	615.00 > 570.00	4.512	4.512	0.0	1.376	3096620	47.4	94.8	8209	
74 1H,1H,2H,2H-perfluorododecanesulfo	627.00 > 607.00	4.524	4.524	0.0	1.135	126564	13.9	72.3	1456	
75 Perfluorododecanesulfonic acid (PF	699.00 > 80.00	4.685	4.685	0.0	1.287	257893	21.1	Target=0.50	109	575
	699.00 > 99.00	4.685	4.685	0.0	1.287	487675		0.53(0.25-0.76)		1708
41 Perfluorotridecanoic acid	663.00 > 619.00	4.730	4.730	0.0	1.048	1112942	19.6	Target=5.71	97.9	85.6
	663.00 > 169.00	4.730	4.730	0.0	1.048	241282		4.61(2.85-8.56)		1274
42 Perfluorotetradecanoic acid	713.00 > 169.00	4.939	4.939	0.0	1.000	215210	23.5	Target=1.02	118	2210
	713.00 > 219.00	4.939	4.939	0.0	1.000	212923		1.01(0.51-1.54)		2217
D 43 13C2 PFTeDA	715.00 > 670.00	4.939	4.939	0.0	1.506	3434395	38.2	76.4	11856	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.359	5.359	0.0	1.000	1348189	20.6	Target=5.23	103	472	
813.00 > 169.00	5.359	5.359	0.0	1.000	297157		4.54(2.62-7.85)		4143	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.359	5.359	0.0	1.634	3392186	42.4		84.8	8785	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.796	5.796	0.0	1.082	933674	18.3	Target=5.61	91.5	745	
913.00 > 169.00	5.784	5.796	-0.012	1.079	220841		4.23(2.80-8.41)		2378	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

LCPFAS32-L4\_00001

Amount Added: 100.00

Units: uL



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37090.b\SC080119A003.d

Injection Date: 01-Aug-2019 14:34:18

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

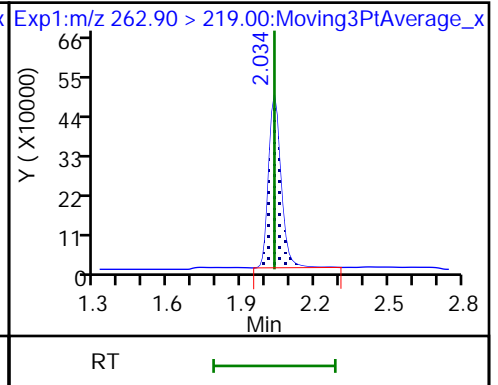
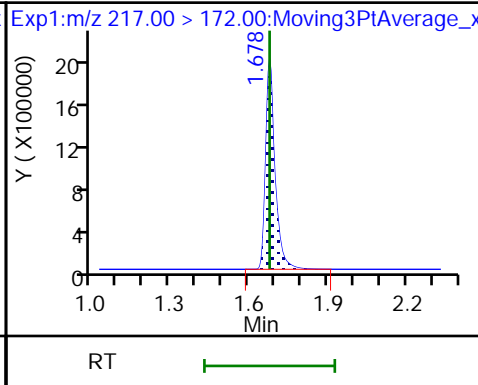
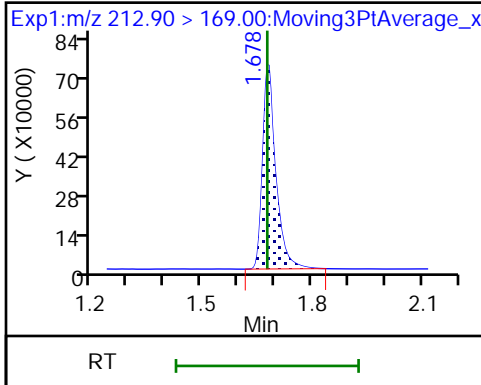
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

2 Perfluorobutanoic acid

D 1 13C4 PFBA

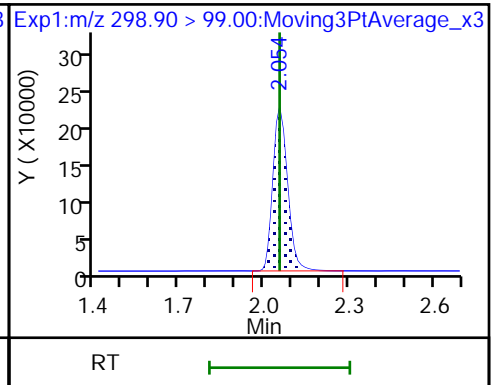
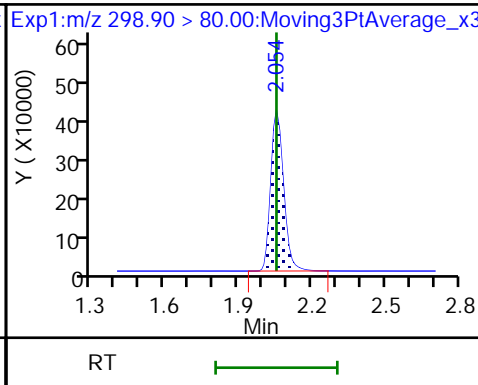
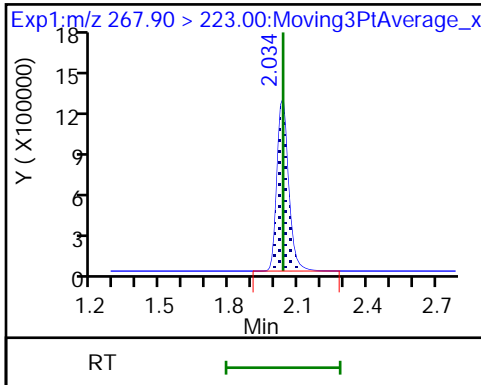
4 Perfluoropentanoic acid



D 3 13C5 PFPeA

5 Perfluorobutanesulfonic acid

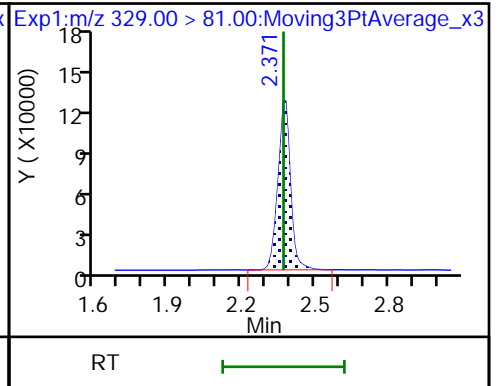
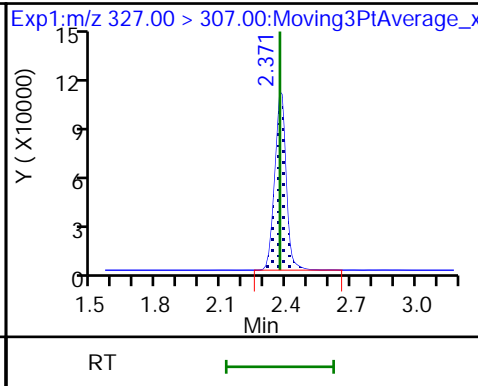
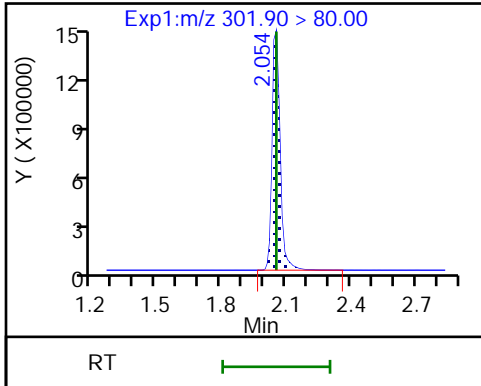
5 Perfluorobutanesulfonic acid



D 47 13C3 PFBS

61 1H,1H,2H,2H-perfluorohexanesulfonate

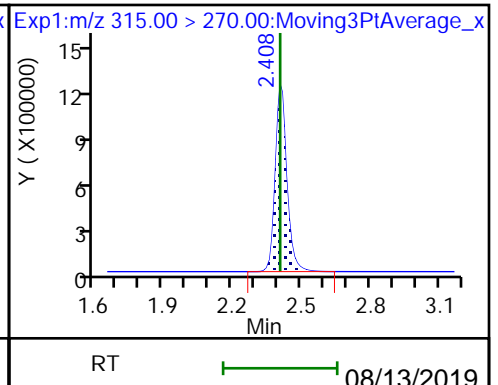
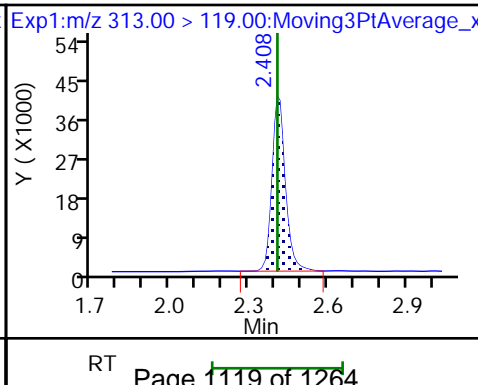
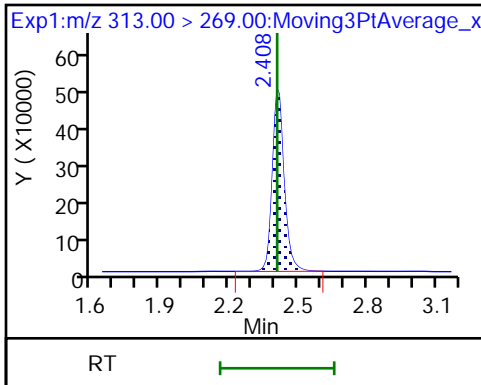
D 60 M2-4:2 FTS

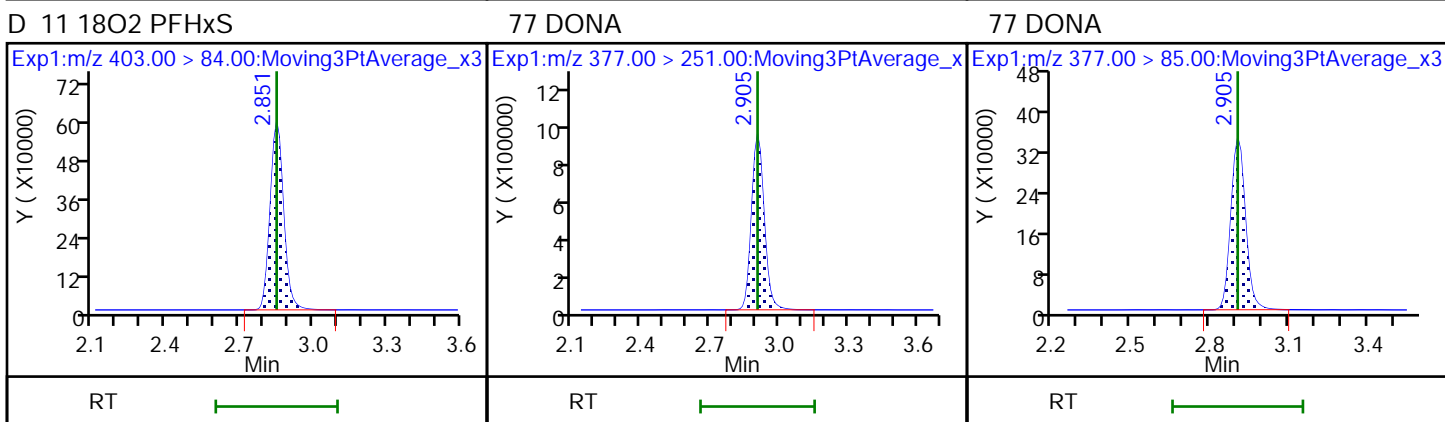
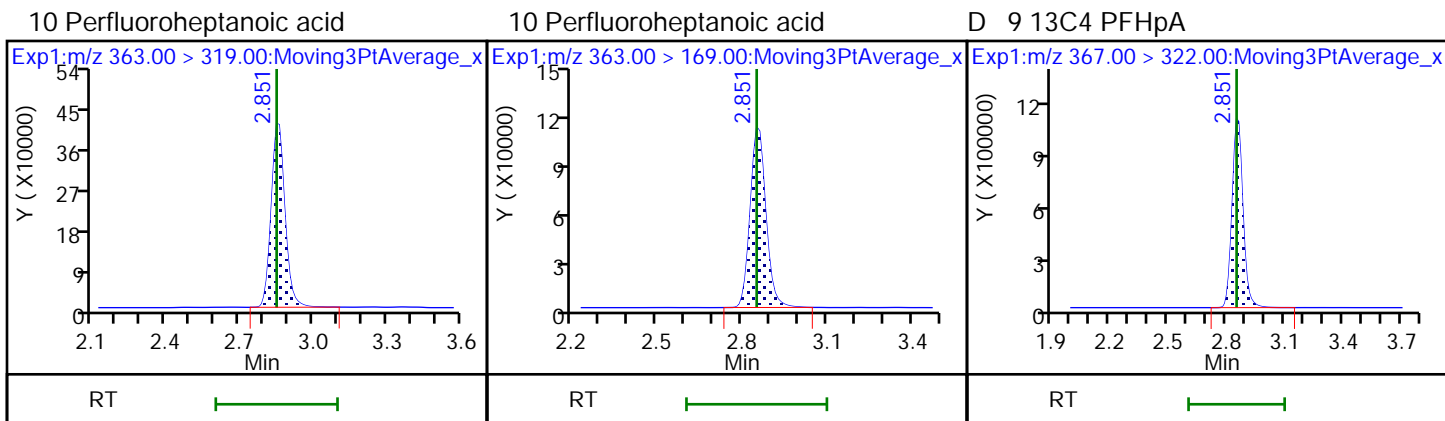
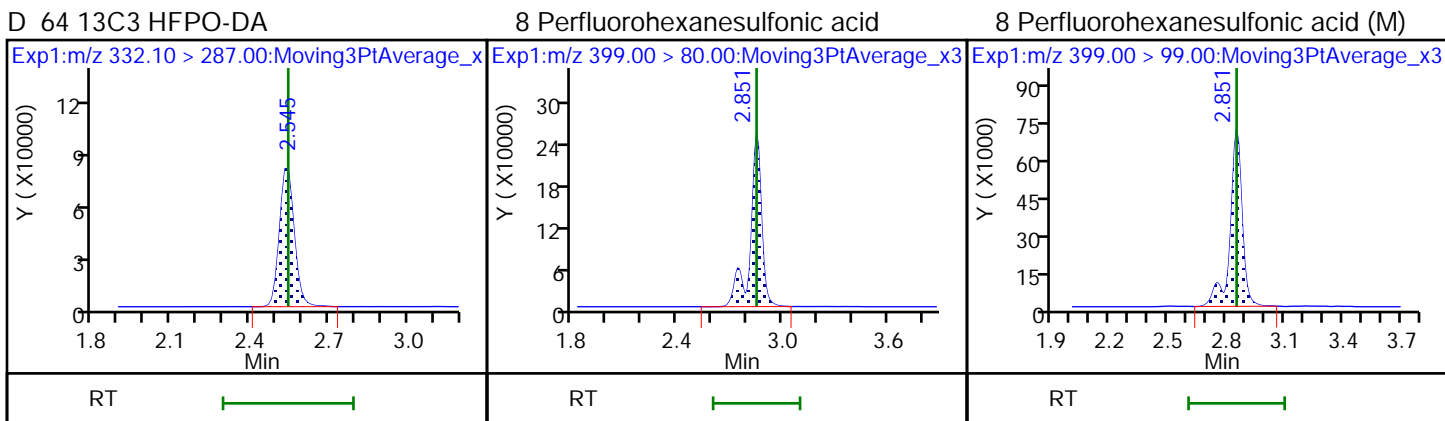
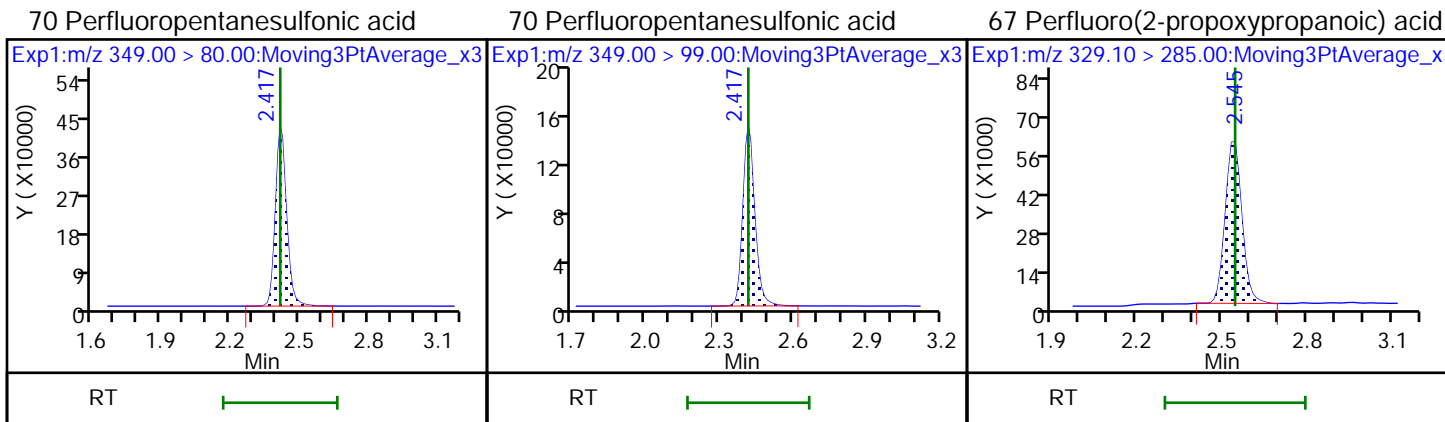


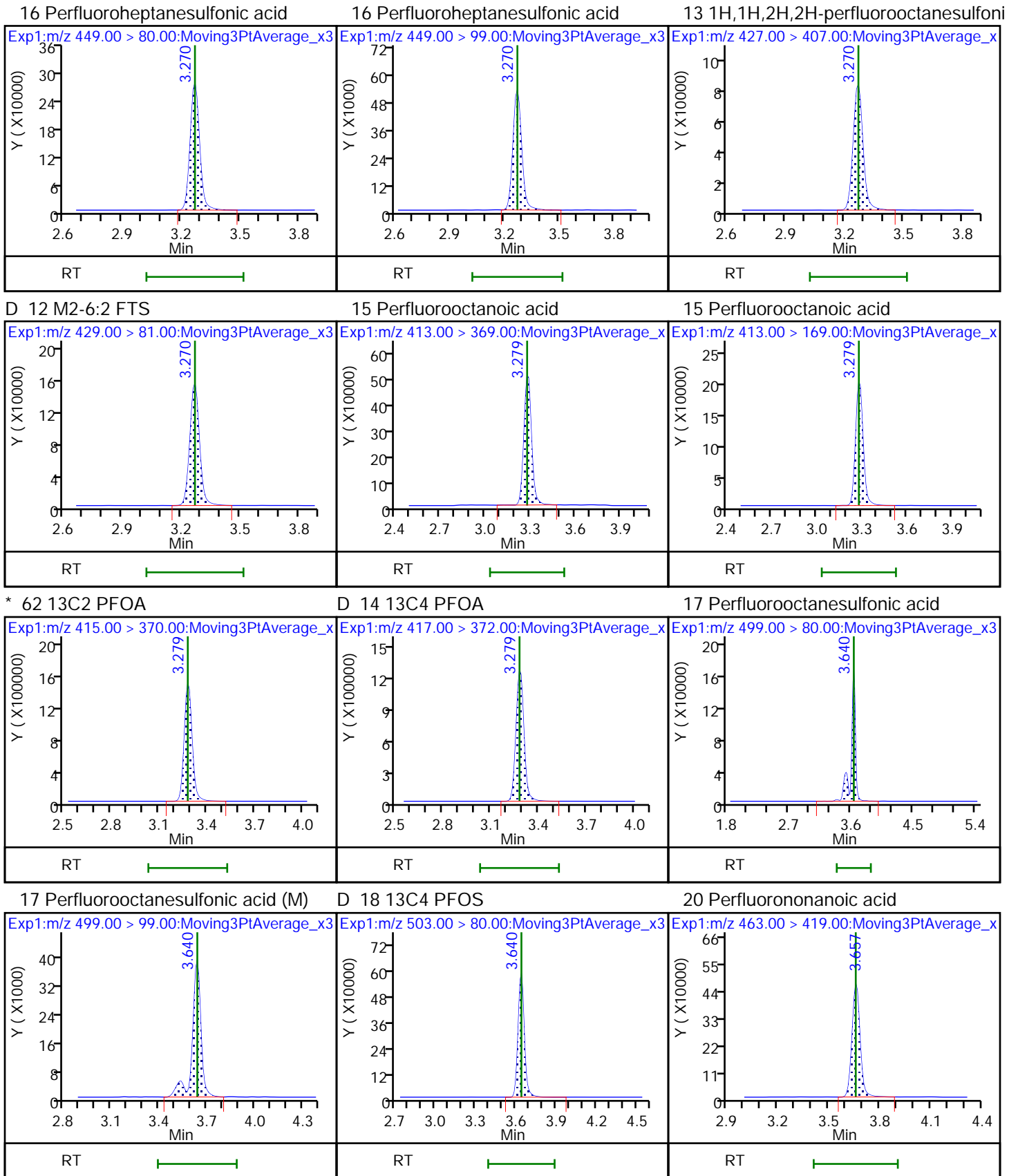
6 Perfluorohexanoic acid

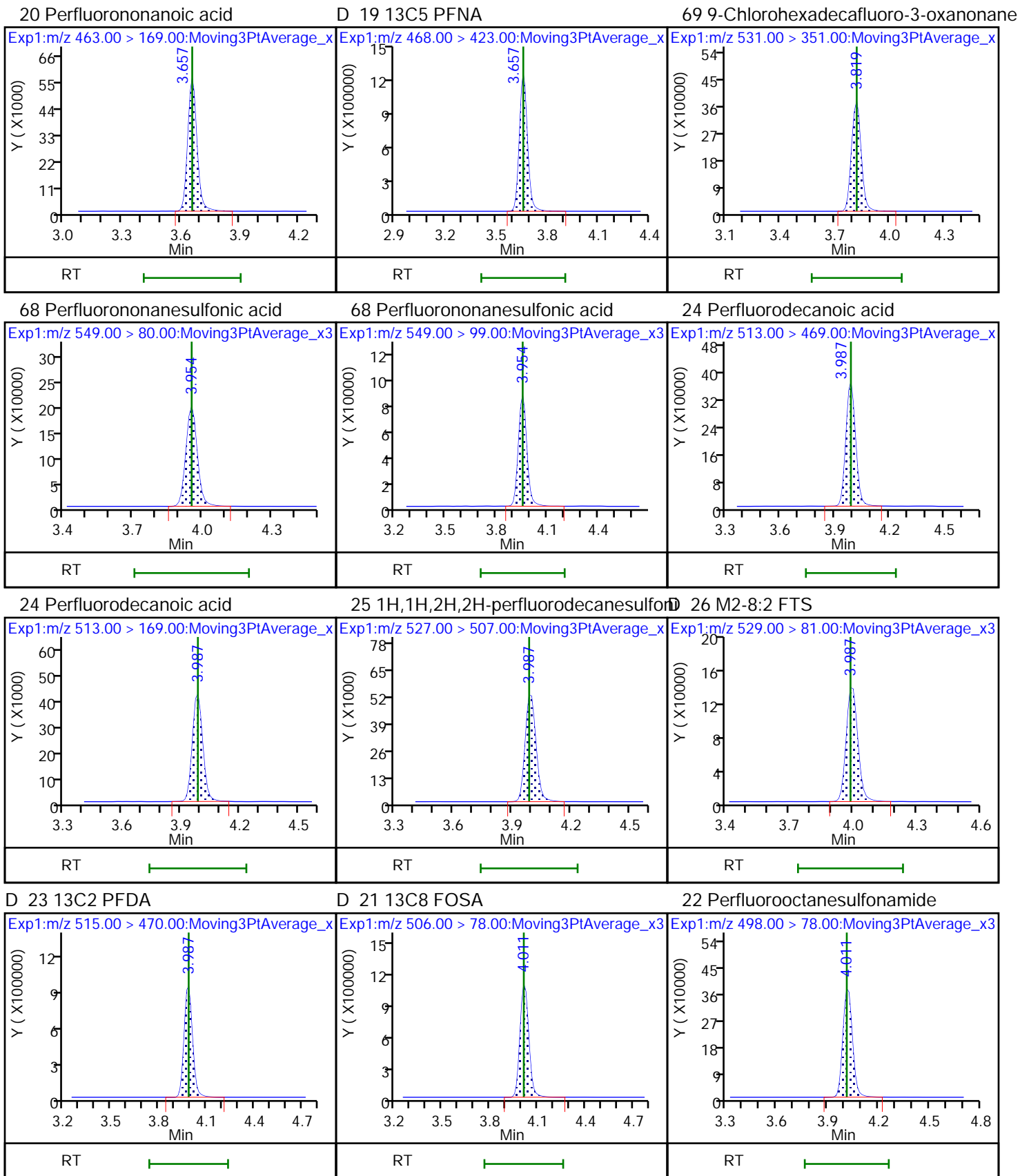
6 Perfluorohexanoic acid

D 7 13C2 PFHxA



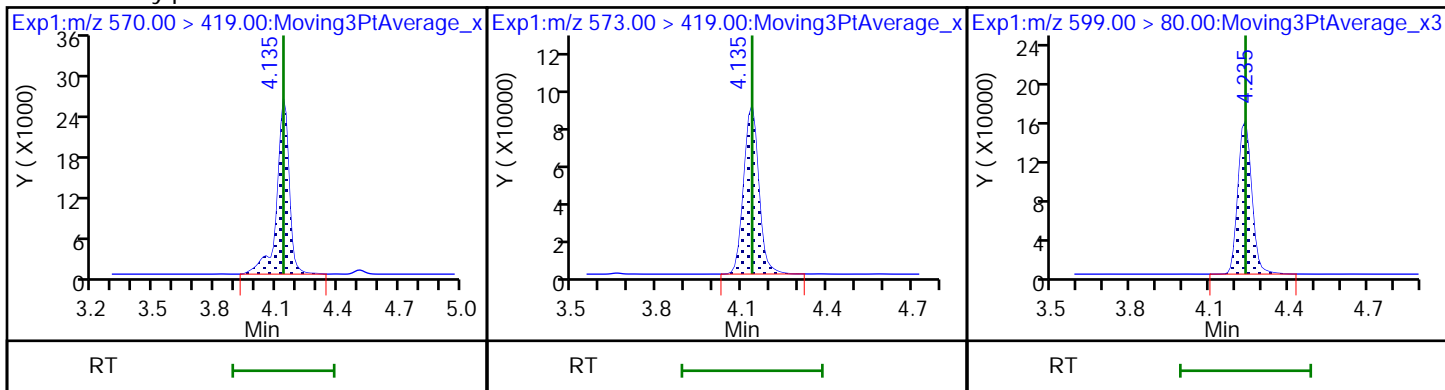






28 N-methylperfluorooctanesulfonamidD 27 d3-NMeFOSAA

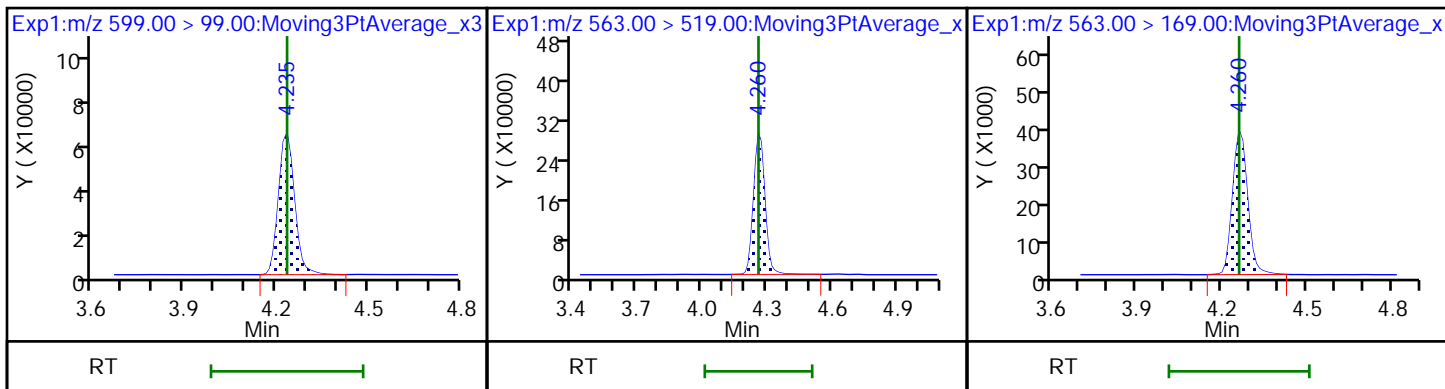
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

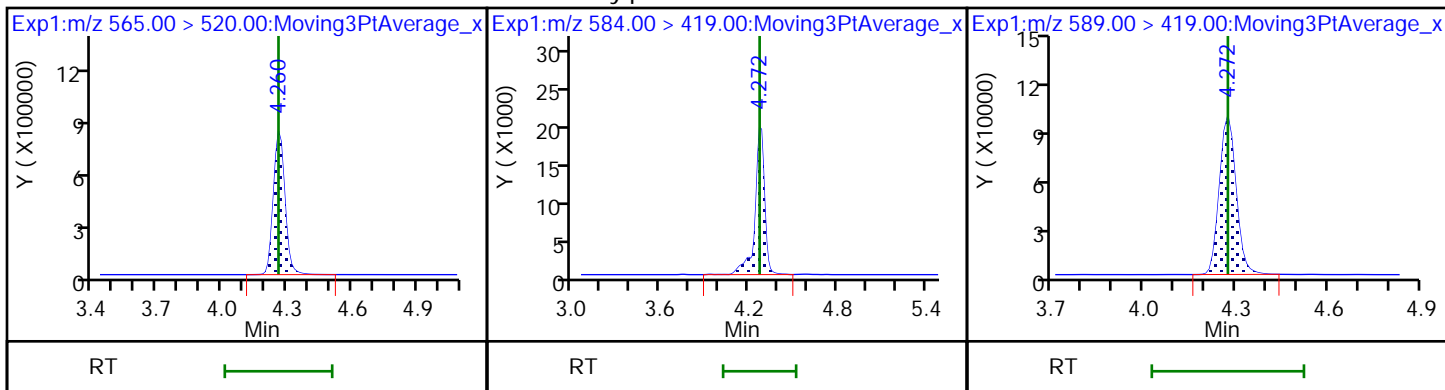
31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid



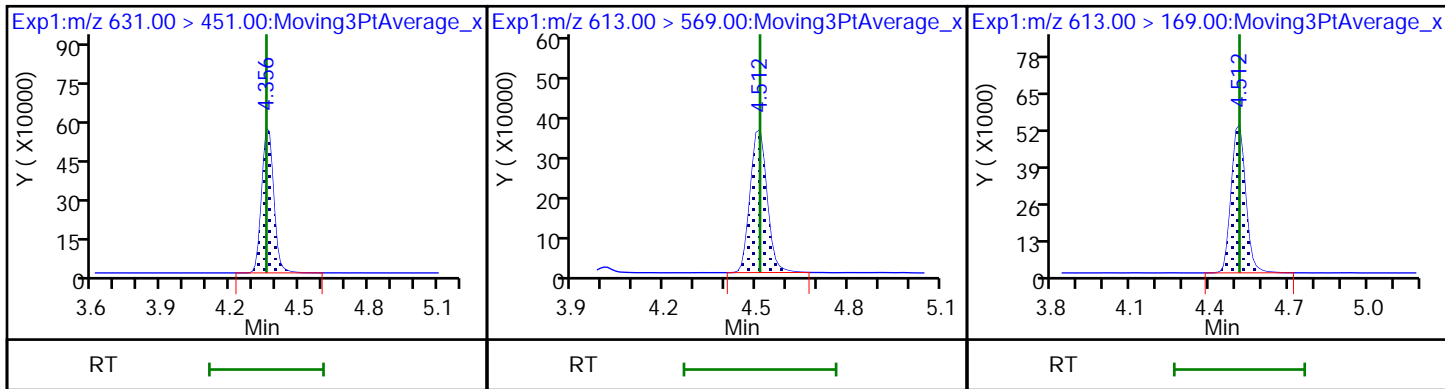
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33 N-ethylperfluorooctanesulfonamidD 32 d5-NEtFOSAA



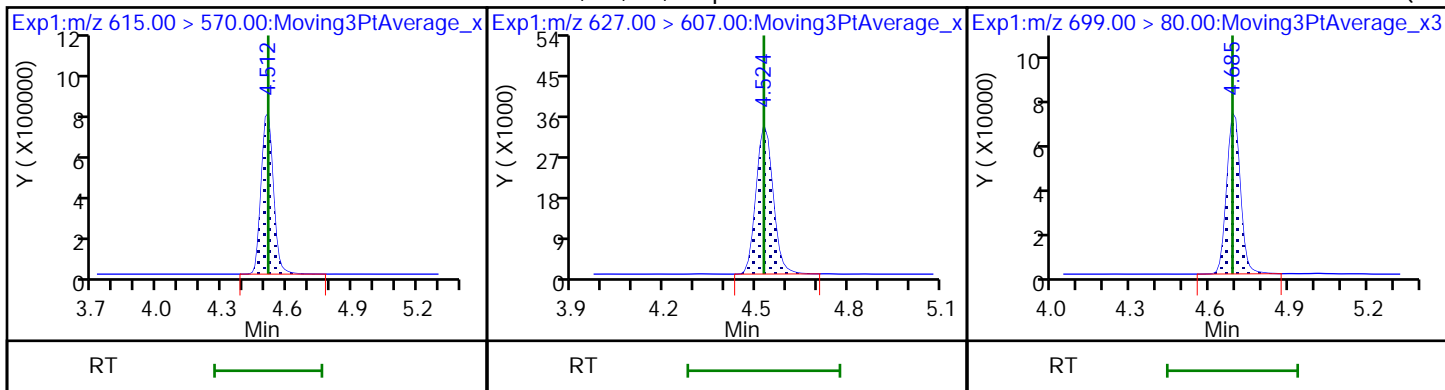
66 11-Chloroeicosafluoro-3-oxaundecan 37 Perfluorododecanoic acid

37 Perfluorododecanoic acid



D 36 13C2 PFDoA

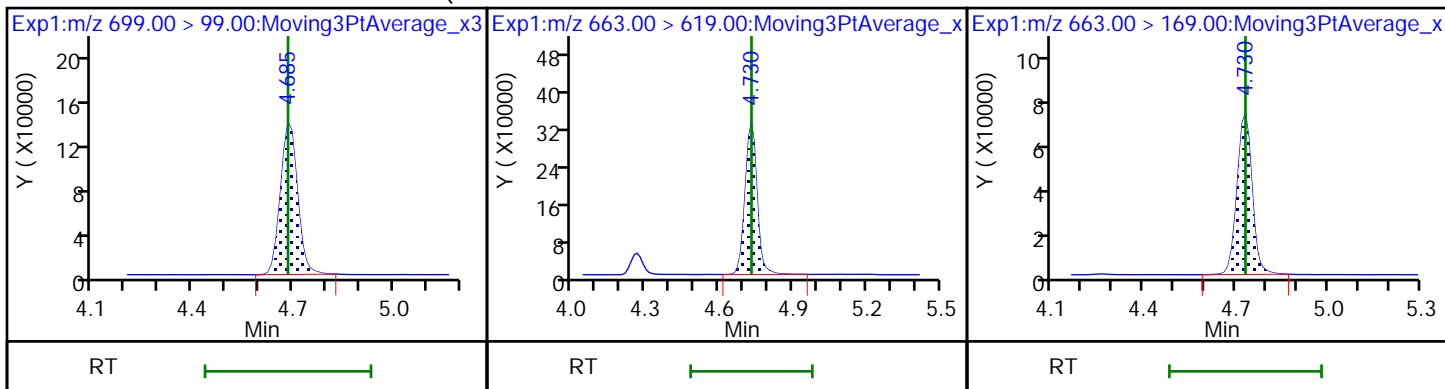
74 1H,1H,2H,2H-perfluorododecanesulfo75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

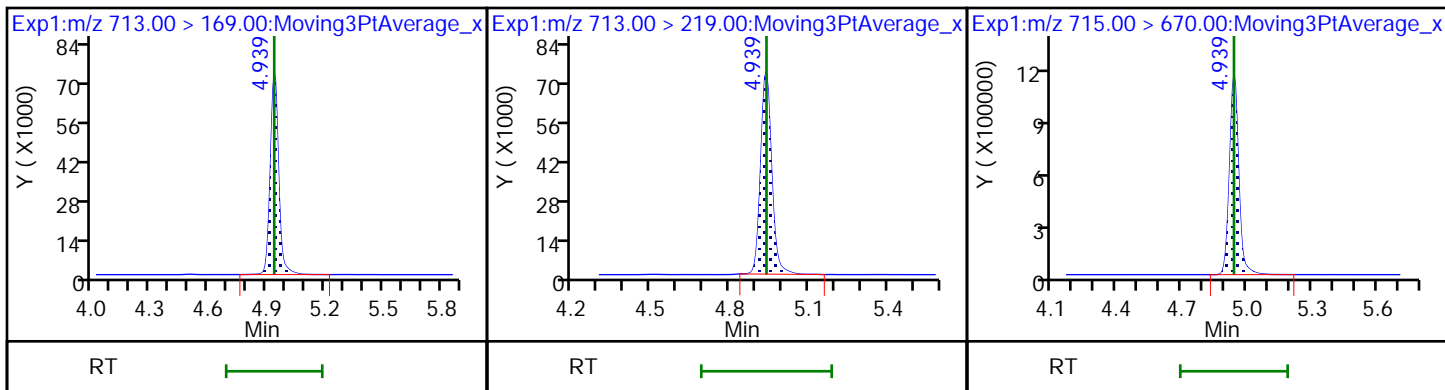
41 Perfluorotridecanoic acid



42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid

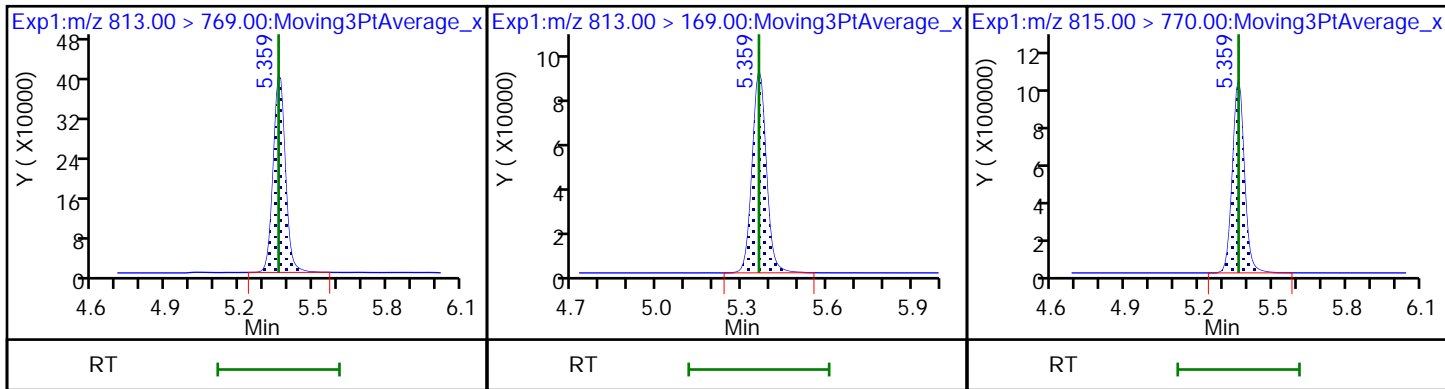
D 43 13C2 PFTeDA



45 Perfluorohexadecanoic acid

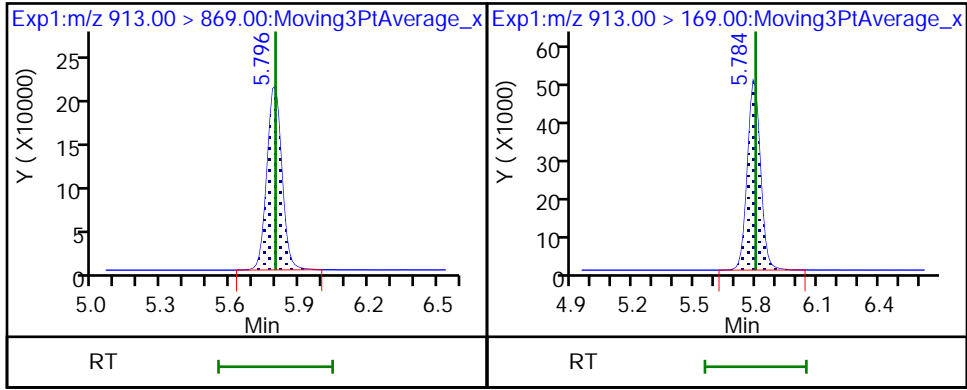
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

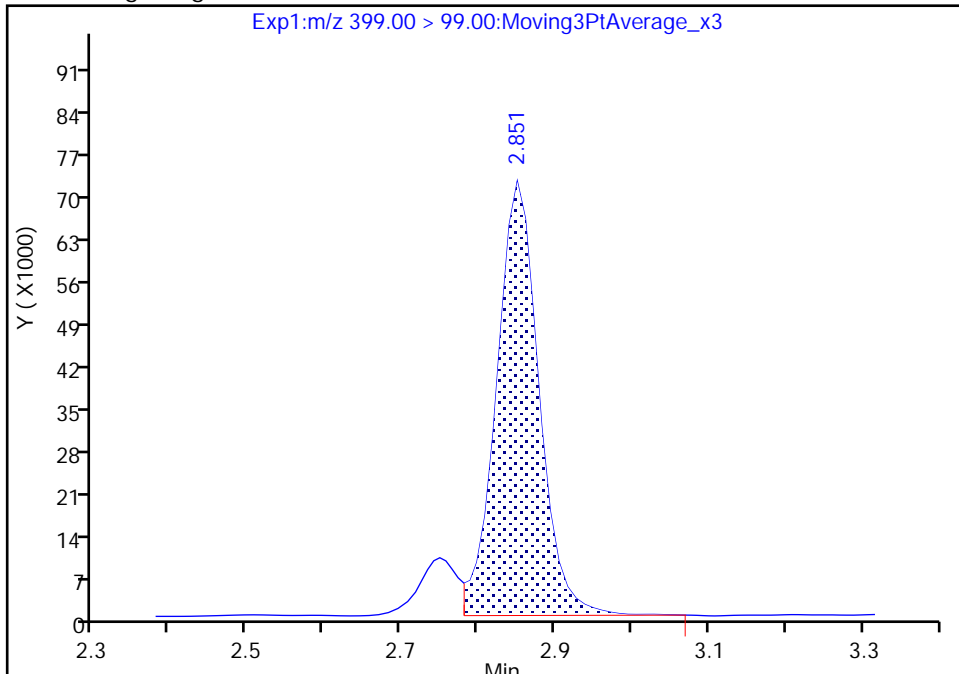
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37090.b\SC080119A003.d  
Injection Date: 01-Aug-2019 14:34:18 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

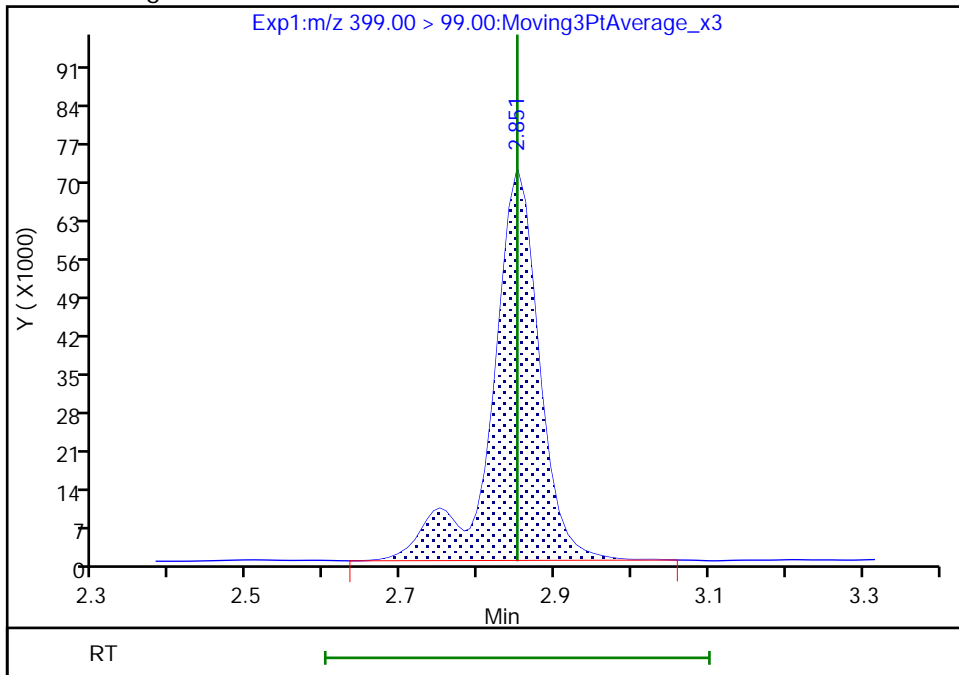
RT: 2.85  
Area: 276345  
Amount: 17.861631  
Amount Units: ng/ml

Processing Integration Results



RT: 2.85  
Area: 309005  
Amount: 17.861631  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 01-Aug-2019 14:44:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

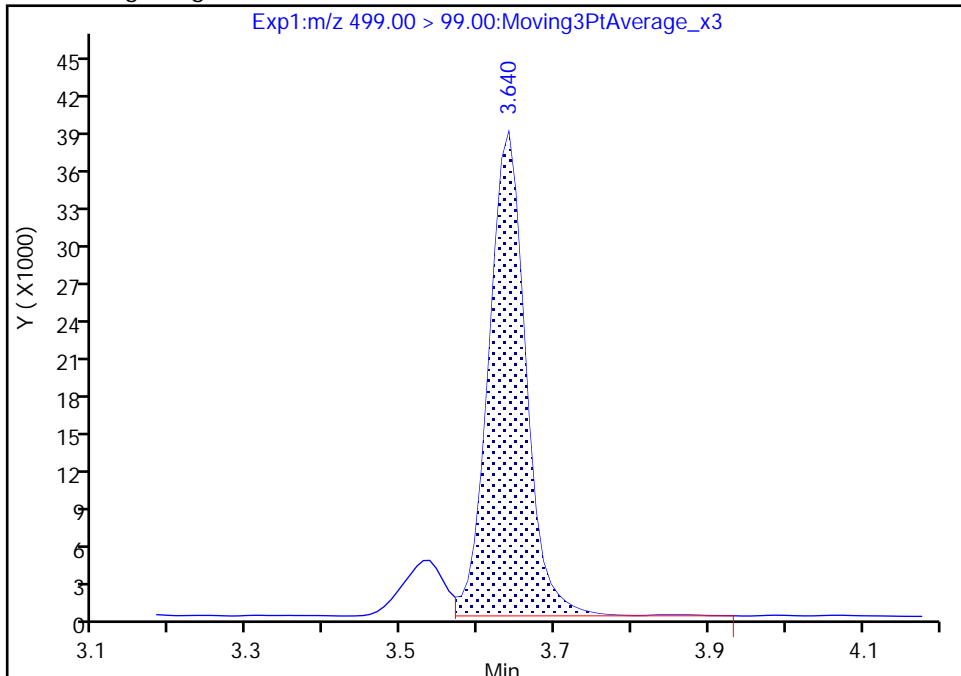
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37090.b\SC080119A003.d  
Injection Date: 01-Aug-2019 14:34:18 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

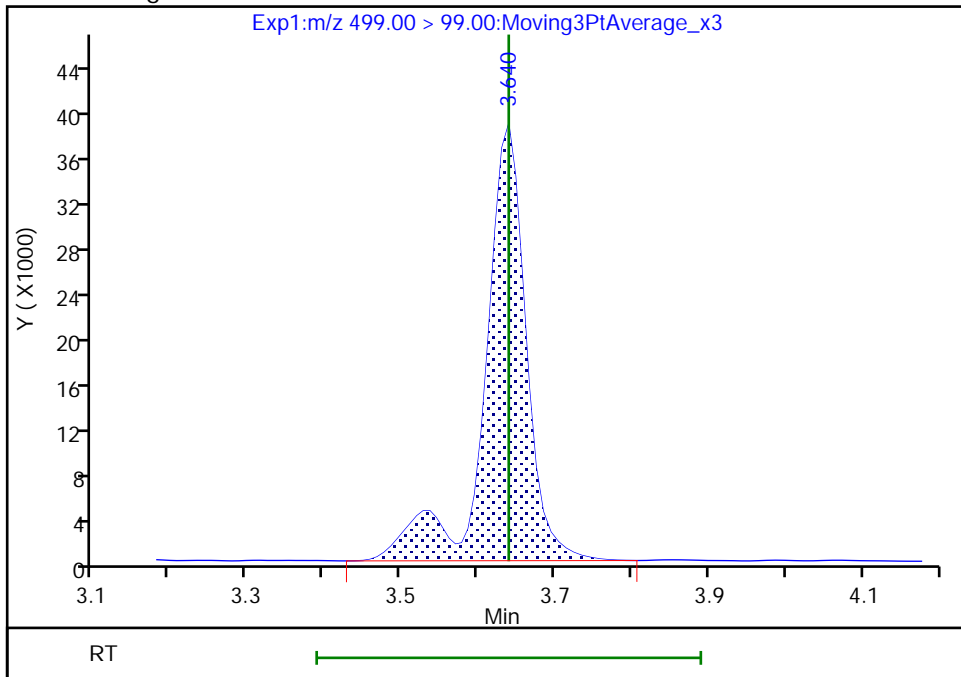
RT: 3.64  
Area: 128038  
Amount: 18.586416  
Amount Units: ng/ml

Processing Integration Results



RT: 3.64  
Area: 143861  
Amount: 18.586416  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 01-Aug-2019 14:44:18  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-145761/1 Calibration Date: 08/02/2019 03:49  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119E001.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9217	0.9464		20500	20000	2.7	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.9677	0.9711		20100	20000	0.4	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.017	1.001		17400	17700	-1.5	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.389	1.990		15600	18700	-16.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.030	1.022		19800	20000	-0.8	40.0
Perfluoropentanesulfonic acid	AveID	0.8944	0.8693		18200	18800	-2.8	50.0
HFPO-DA	AveID	2.541	2.282		18000	20000	-10.2	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9367	1.000		21400	20000	6.8	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.318	1.243		17200	18200	-5.7	40.0
DONA	AveID	4.754	4.526		17900	18800	-4.8	50.0
6:2 FTS	AveID	1.715	1.471		16300	19000	-14.2	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.205	1.148		18100	19000	-4.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.081		19900	20000	-0.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9465	0.9268		18200	18600	-2.1	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9059	0.8934		19700	20000	-1.4	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	2.174	1.864		16000	18600	-14.3	50.0
Perfluorononanesulfonic acid	AveID	0.8445	0.9365		21300	19200	10.9	50.0
8:2 FTS	AveID	1.337	0.7978		11400	19200	-40.3*	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9682	0.9630		19900	20000	-0.5	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9129	0.9382		20600	20000	2.8	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7567	0.7208		19100	20000	-4.7	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6627	0.6986		20300	19300	5.4	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8581	0.8677		20200	20000	1.1	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6400	0.5977		18700	20000	-6.6	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	3.310	2.470		14100	18800	-25.4	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.022	0.9637		18900	20000	-5.7	40.0
10:2 FTS	AveID	0.8462	0.6233		14200	19300	-26.3	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3176	0.3283		20000	19400	3.4	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.9176	0.8387		18300	20000	-8.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1331	0.1570		23600	20000	17.9	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-145761/1 Calibration Date: 08/02/2019 03:49  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119E001.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.038		21600	20000	7.8	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7518	0.7259		19300	20000	-3.4	50.0
13C4 PFBA	Ave	0.9423	0.999		53000	50000	6.0	50.0
13C5 PFPeA	Ave	0.8851	0.8924		50400	50000	0.8	50.0
13C3 PFBS	Ave	0.8694	0.8288		44300	46500	-4.7	50.0
M2-4:2 FTS	Ave	0.0841	0.0838		46600	46700	-0.3	50.0
13C2 PFHxA	Ave	0.8791	0.8834		50200	50000	0.5	50.0
13C3 HFPO-DA	Ave	0.0564	0.0536		47500	50000	-4.9	50.0
13C4 PFHpA	Ave	0.8611	0.8363		48600	50000	-2.9	50.0
1802 PFHxS	Ave	0.5092	0.4944		45900	47300	-2.9	50.0
M2-6:2 FTS	Ave	0.1060	0.1034		46400	47500	-2.4	50.0
13C4 PFOA	Ave	0.9094	0.8527		46900	50000	-6.2	50.0
13C4 PFOS	Ave	0.4242	0.4076		45900	47800	-3.9	50.0
13C5 PFNA	Ave	0.8296	0.8411		50700	50000	1.4	50.0
13C2 PFDA	Ave	0.6637	0.6840		51500	50000	3.1	50.0
M2-8:2 FTS	Ave	0.0978	0.1155		56600	47900	18.1	50.0
13C8 FOSA	Ave	0.7620	0.7837		51400	50000	2.8	50.0
d3-NMeFOSAA	Ave	0.0848	0.0750		44200	50000	-11.6	50.0
13C2 PFUnA	Ave	0.6045	0.6134		50700	50000	1.5	50.0
d5-NEtFOSAA	Ave	0.0945	0.0766		40500	50000	-18.9	50.0
13C2 PFDoA	Ave	0.6507	0.7102		54600	50000	9.1	50.0
13C2 PFTeDA	Ave	0.8960	0.7177		40100	50000	-19.9	50.0
13C2 PFHxDA	Ave	0.7972	0.6608		41400	50000	-17.1	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E001.d  
 Lims ID: CCV L4  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 02-Aug-2019 03:49:20 ALS Bottle#: 48 Worklist Smp#: 1  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L4  
 Misc. Info.: 200-0037095-001 Plate: 1 Rack: 4  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: chirgwinb Date: 02-Aug-2019 17:26:08

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.506	4731092	53.0	106	14508	
2 Perfluorobutanoic acid	212.90 > 169.00	1.699	1.699	0.0	1.000	1791010	20.5	103	347	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.616	4227133	50.4	101	9441	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	1641917	20.1	100	98.4	
D 47 13C3 PFBS	301.90 > 80.00	2.080	2.080	0.0	0.620	3650943	44.3	95.3	710096	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.006	1390164	17.4	Target=1.90	98.5	4489
	298.90 > 99.00	2.093	2.093	0.0	1.006	720591		1.93(0.95-2.85)		921
D 60 M2-4:2 FTS	329.00 > 81.00	2.417	2.417	0.0	0.720	370931	46.6	99.7	541	
61 1H,1H,2H,2H-perfluorohexanesulfoni	327.00 > 307.00	2.417	2.417	0.0	1.000	295258	15.6	83.3	2128	
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.733	4184424	50.2	100	7428	
6 Perfluorohexanoic acid	313.00 > 269.00	2.459	2.459	0.0	1.000	1710106	19.8	Target=13.23	99.2	574
	313.00 > 119.00	2.459	2.459	0.0	1.000	142330		12.02(6.61-19.84)		185
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.470	2.470	0.0	1.188	1280470	18.2	Target=2.73	97.2	3615
	349.00 > 99.00	2.470	2.470	0.0	1.188	447273		2.86(1.37-4.10)		1079
D 64 13C3 HFPO-DA	332.10 > 287.00	2.596	2.596	0.0	0.774	254033	47.5	95.1	1569	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.596	2.596	0.0	1.000	231905	18.0		89.8	72.5	
D 11 18O2 PFHxS										
403.00 > 84.00	2.928	2.916	0.012	0.873	2215402	45.9		97.1	7560	
D 9 13C4 PFHpA										
367.00 > 322.00	2.928	2.928	0.0	0.873	3961299	48.6		97.1	8300	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.928	2.928	0.0	1.000	1059567	17.2	Target=3.37	94.3	1155	M
399.00 > 99.00	2.928	2.928	0.0	1.000	291885		3.63(1.69-5.06)		396	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.928	2.928	0.0	1.000	1584791	21.4	Target=3.76	107	508	
363.00 > 169.00	2.928	2.928	0.0	1.000	416173		3.81(1.88-5.65)		1348	
77 DONA										
377.00 > 251.00	2.973	2.973	0.0	0.803	3293101	17.9	Target=2.72	95.2	2436	
377.00 > 85.00	2.973	2.973	0.0	0.803	1290057		2.55(1.36-4.07)		1647	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.345	3.335	0.010	0.997	465436	46.4		97.6	1132	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.336	3.336	0.0	0.997	273359	16.3		85.8	460	
D 14 13C4 PFOA										
417.00 > 372.00	3.355	3.344	0.011	1.000	4039061	46.9		93.8	10668	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.345	3.345	0.0	0.903	843779	18.1	Target=4.80	95.3	2945	
449.00 > 99.00	3.345	3.345	0.0	0.903	165232		5.11(2.40-7.20)		960	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.355	3.355	0.0	1.000	1745761	19.9	Target=2.84	99.3	230	
413.00 > 169.00	3.355	3.355	0.0	1.000	671637		2.60(1.42-4.25)		2013	
* 62 13C2 PFOA										
415.00 > 370.00	3.355	3.355	0.0		4736674	50.0			14104	
D 18 13C4 PFOS										
503.00 > 80.00	3.703	3.695	0.008	1.104	1845863	45.9		96.1	7991	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.703	3.703	0.0	1.000	664246	18.2	Target=4.33	97.9	7405	
499.00 > 99.00	3.703	3.703	0.0	1.000	140965		4.71(2.16-6.49)		612	
D 19 13C5 PFNA										
468.00 > 423.00	3.723	3.715	0.008	1.110	3983909	50.7		101	22387	
20 Perfluorononanoic acid										
463.00 > 419.00	3.723	3.723	0.0	1.000	1423737	19.7	Target=8.15	98.6	628	
463.00 > 169.00	3.723	3.723	0.0	1.000	186161		7.65(4.08-12.23)		2445	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.875	3.875	0.0	1.046	1341432	16.0		85.7	5638	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.010	4.010	0.0	1.083	694330	21.3	Target=2.42	111	5039	
549.00 > 99.00	4.010	4.010	0.0	1.083	276433		2.51(1.21-3.63)		801	
D 23 13C2 PFDA										
515.00 > 470.00	4.035	4.036	-0.001	1.203	3239744	51.5		103	15629	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.047	4.036	0.011	1.206	5239831	56.6		118	13508	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.047	4.047	0.0	1.003	1247884	19.9	Target=9.58	99.5	573	
513.00 > 169.00	4.047	4.047	0.0	1.003	145131		8.60(4.79-14.37)		1117	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.047	4.047	0.0	1.000	167201	11.4		59.7	2814	M
D 21 13C8 FOSA										
506.00 > 78.00	4.072	4.061	0.011	1.214	3712028	51.4		103	6004	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.072	4.072	0.0	1.000	1393080	20.6		103	5172	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.178	0.009	1.248	355040	44.2		88.4	1890	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.187	4.187	0.0	1.000	102361	19.1		95.3	144	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.283	4.283	0.0	1.156	520139	20.3	Target=2.64	105	4887	
599.00 > 99.00	4.283	4.283	0.0	1.156	199474		2.61(1.32-3.96)		1191	
D 30 13C2 PFUnA										
565.00 > 520.00	4.307	4.296	0.011	1.284	2905379	50.7		101	7352	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.307	4.307	0.0	1.000	1008408	20.2	Target=7.95	101	449	
563.00 > 169.00	4.307	4.307	0.0	1.000	137217		7.35(3.98-11.93)		1293	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.308	0.011	1.287	362714	40.5		81.1	1253	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.319	4.319	0.0	1.000	86724	18.7		93.4	1028	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.403	4.403	0.0	1.189	1797225	14.1		74.6	7284	
D 36 13C2 PFDaA										
615.00 > 570.00	4.549	4.537	0.012	1.356	3363773	54.6		109	9540	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.549	4.549	0.0	1.000	1296683	18.9	Target=7.49	94.3	82.9	
613.00 > 169.00	4.549	4.549	0.0	1.000	207494		6.25(3.75-11.24)		2044	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.562	4.562	0.0	1.127	131434	14.2		73.7	2902	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.718	4.718	0.0	1.274	245442	20.0	Target=0.50	103	436	
699.00 > 99.00	4.718	4.718	0.0	1.274	505801		0.49(0.25-0.76)		2487	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.760	4.760	0.0	1.046	1128439	18.3	Target=5.71	91.4	93.7	
663.00 > 169.00	4.760	4.760	0.0	1.046	244949		4.61(2.85-8.56)		1328	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.965	4.965	0.0	1.480	3399703	40.1		80.1	9896	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.972	4.972	0.0	1.001	213465	23.6	Target=1.02	118	1432	
713.00 > 219.00	4.965	4.972	-0.007	1.000	212029		1.01(0.51-1.54)		2141	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.390	5.390	0.0	1.000	1299124	21.6	Target=5.23	108	365	
813.00 > 169.00	5.390	5.390	0.0	1.000	294654		4.41(2.62-7.85)		2684	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.390	5.390	0.0	1.607	3130153	41.4		82.9	6752	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.832	5.832	0.0	1.082	908927	19.3	Target=5.61	96.6	702	
913.00 > 169.00	5.820	5.832	-0.012	1.080	211761		4.29(2.80-8.41)		2085	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

LCPFAS32-L4\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E001.d

Injection Date: 02-Aug-2019 03:49:20

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 48

Worklist Smp#: 1

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

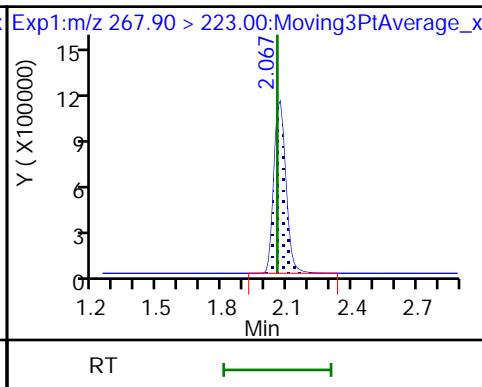
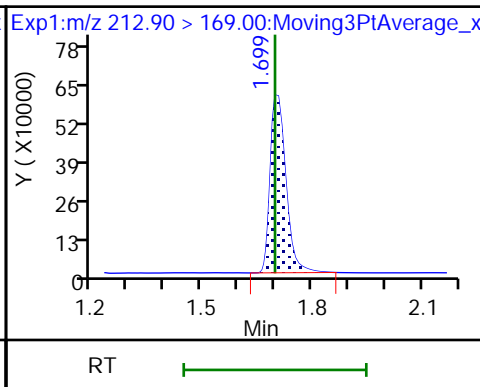
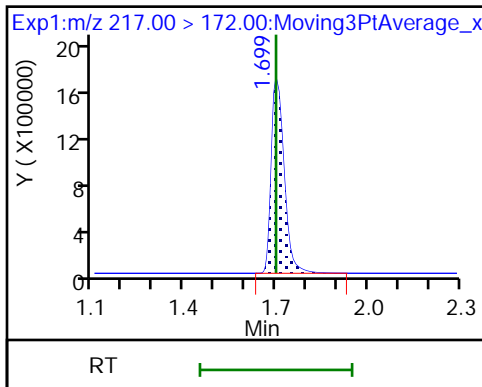
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

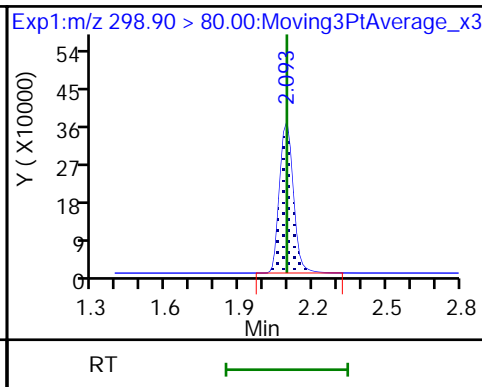
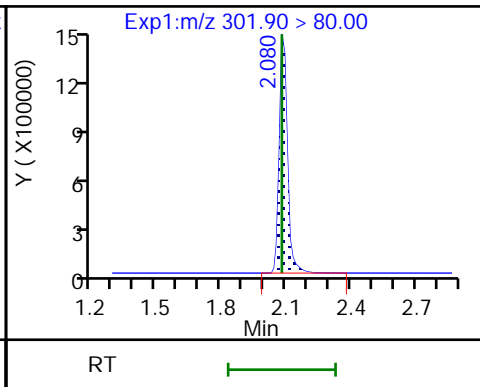
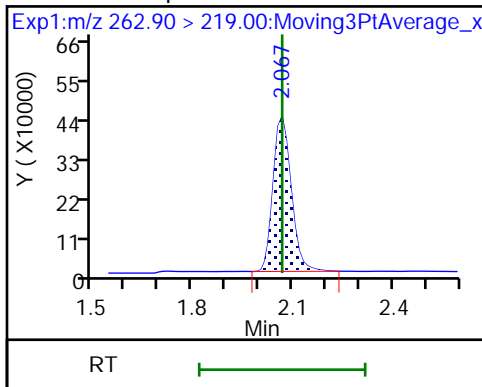
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

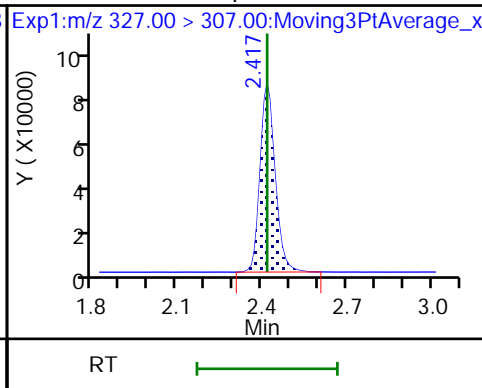
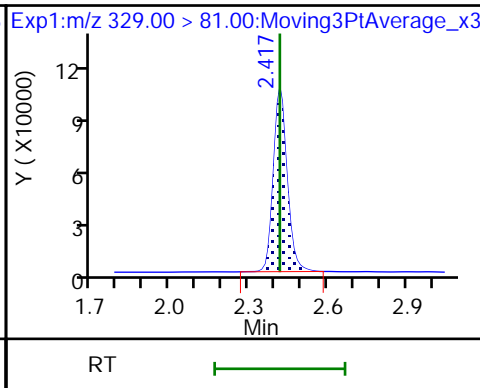
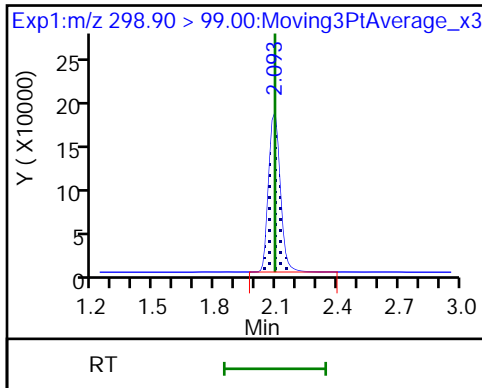
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

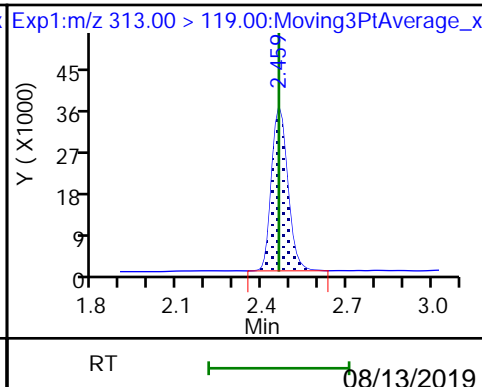
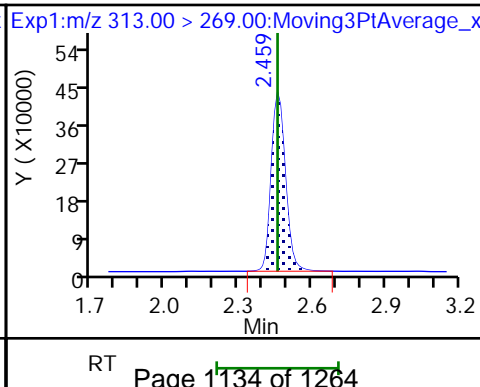
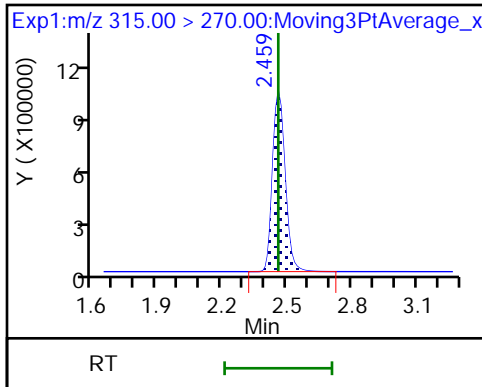
61 1H,1H,2H,2H-perfluorohexanesulfoni



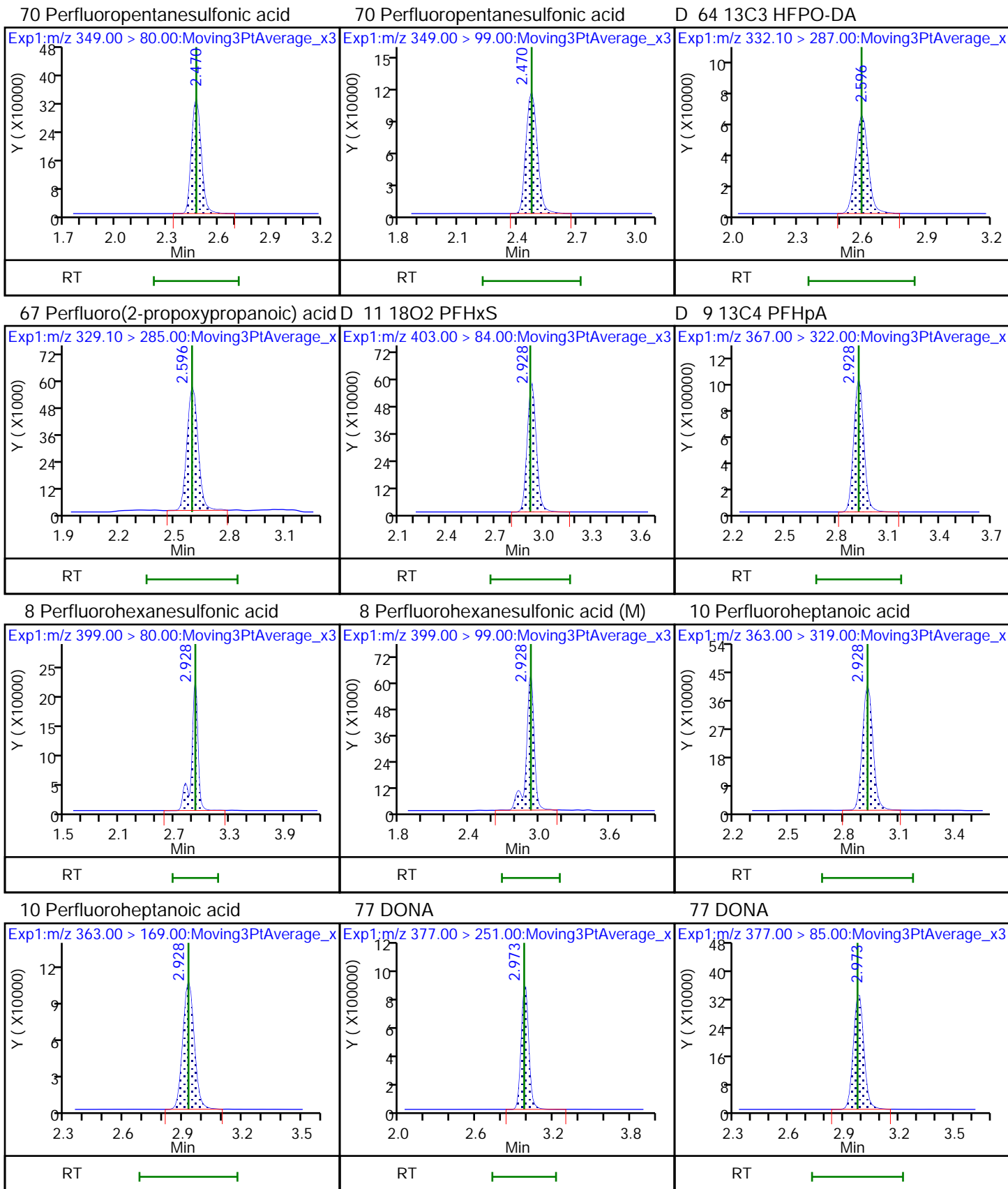
D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

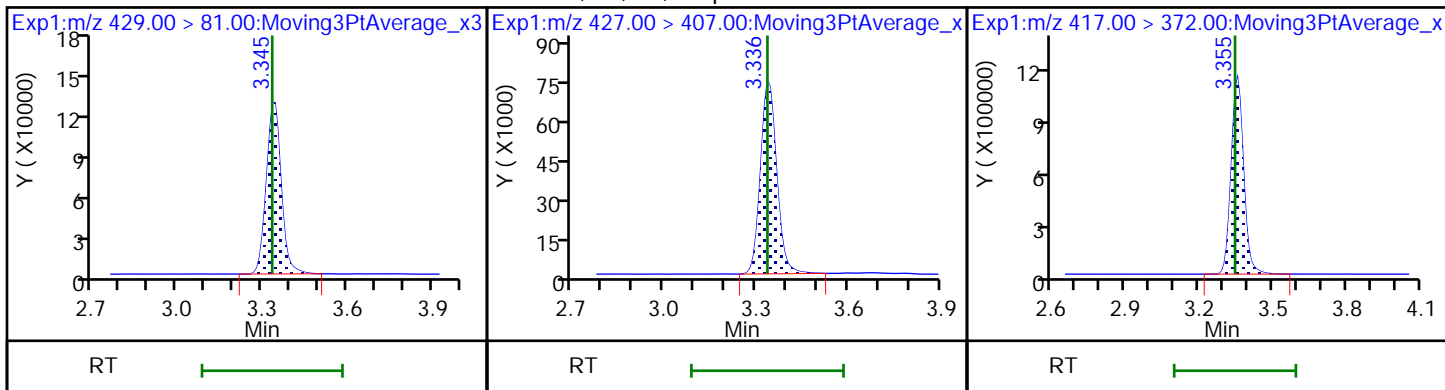






D 12 M2-6:2 FTS

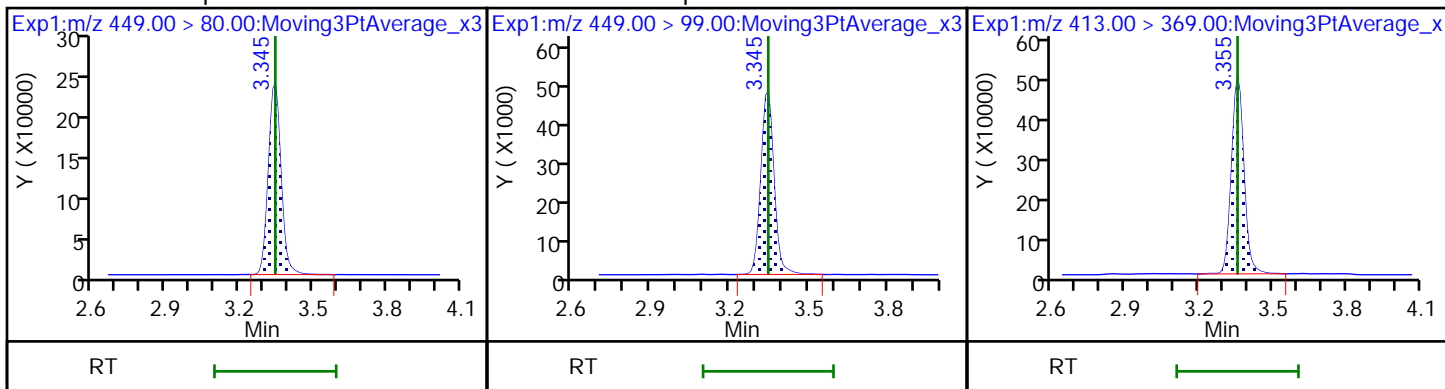
13 1H,1H,2H,2H-perfluorooctanesulfonD 14 13C4 PFOA



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

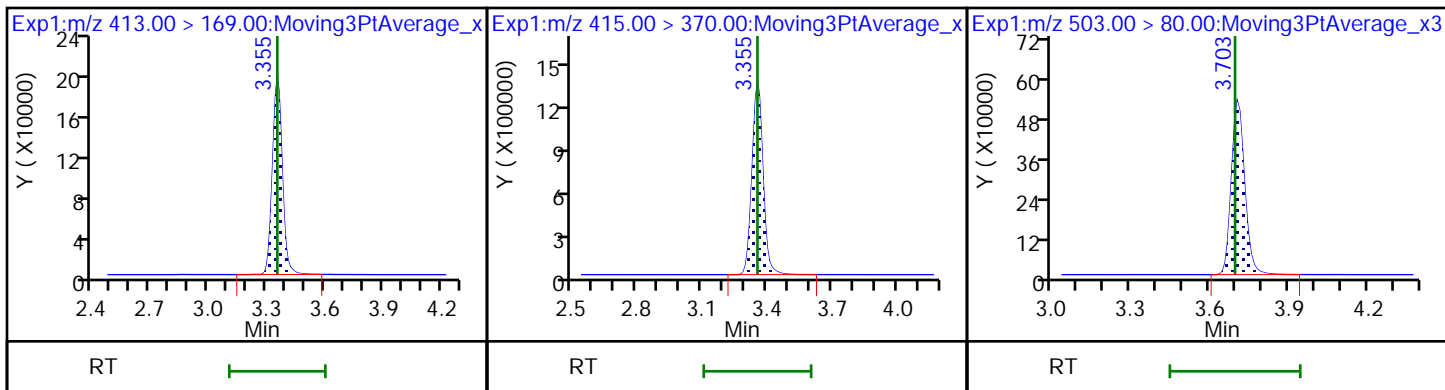
15 Perfluorooctanoic acid



15 Perfluorooctanoic acid

\* 62 13C2 PFOA

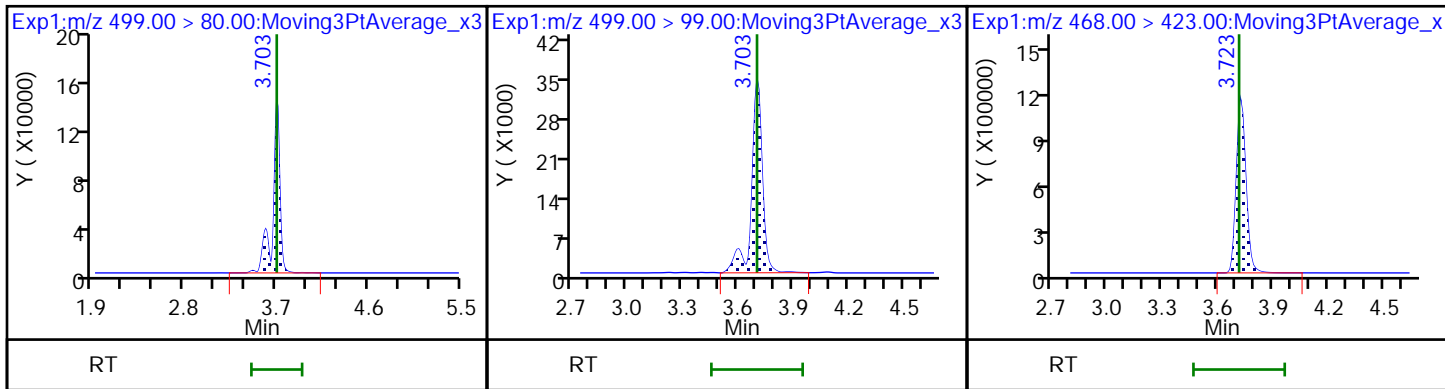
D 18 13C4 PFOS

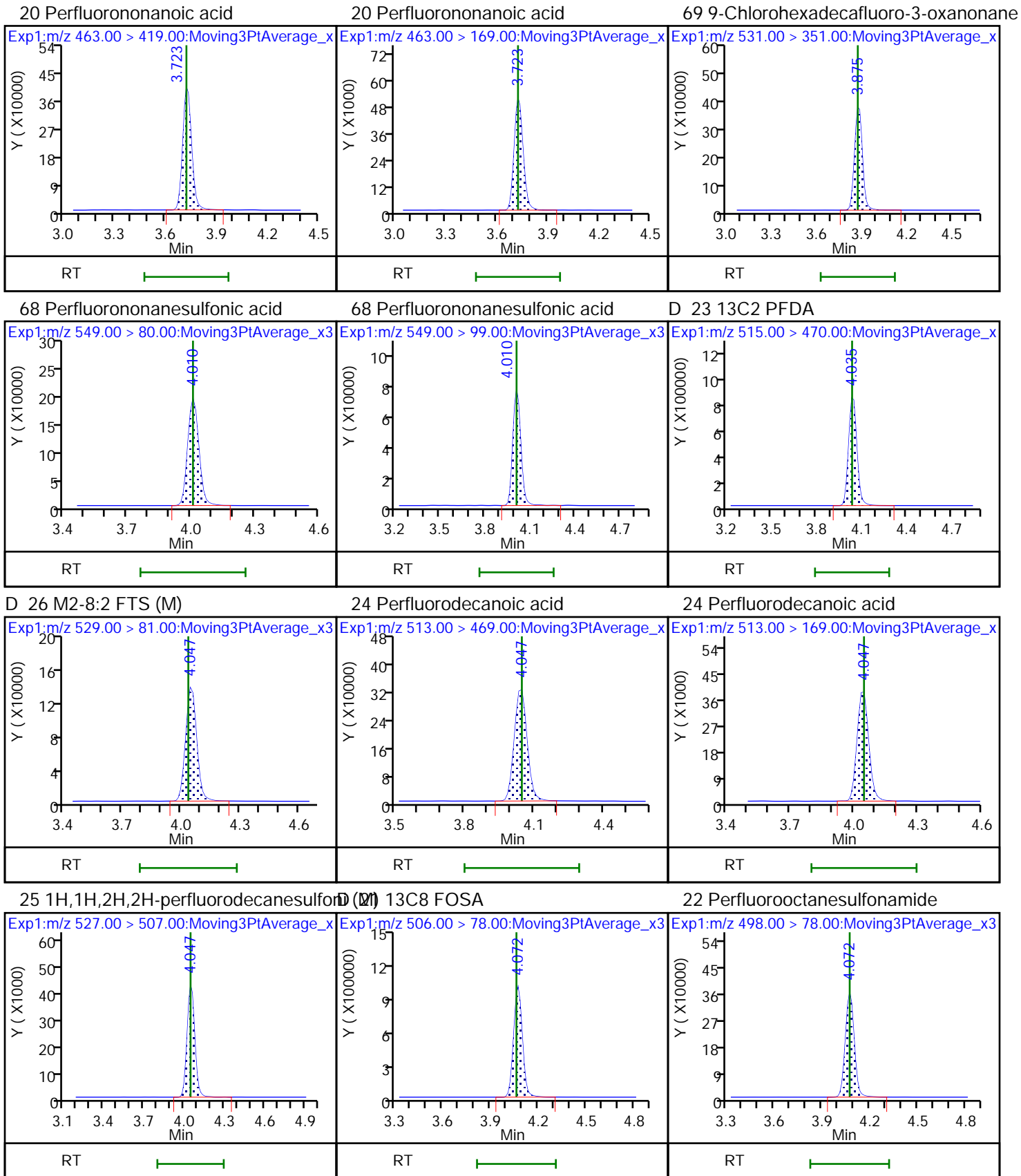


17 Perfluorooctanesulfonic acid

17 Perfluorooctanesulfonic acid

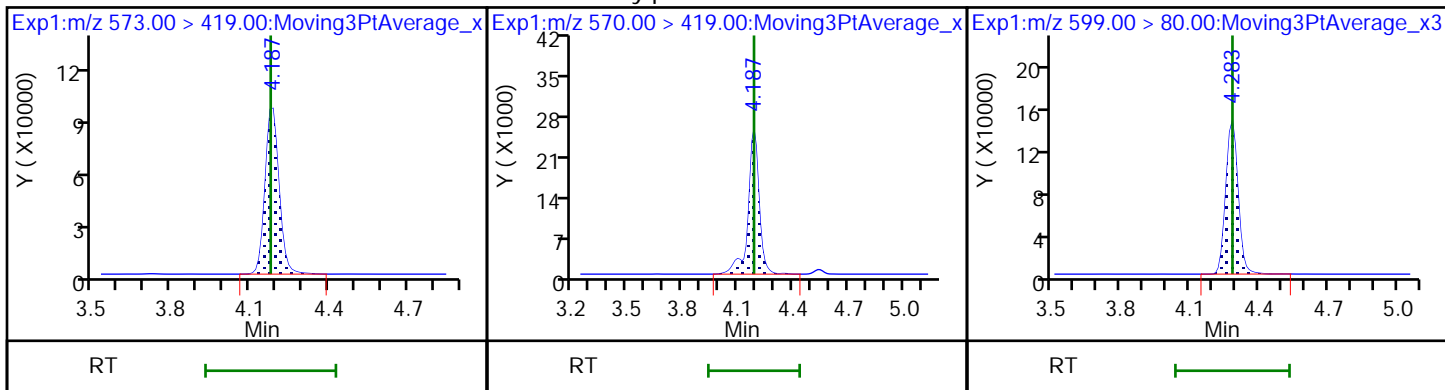
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

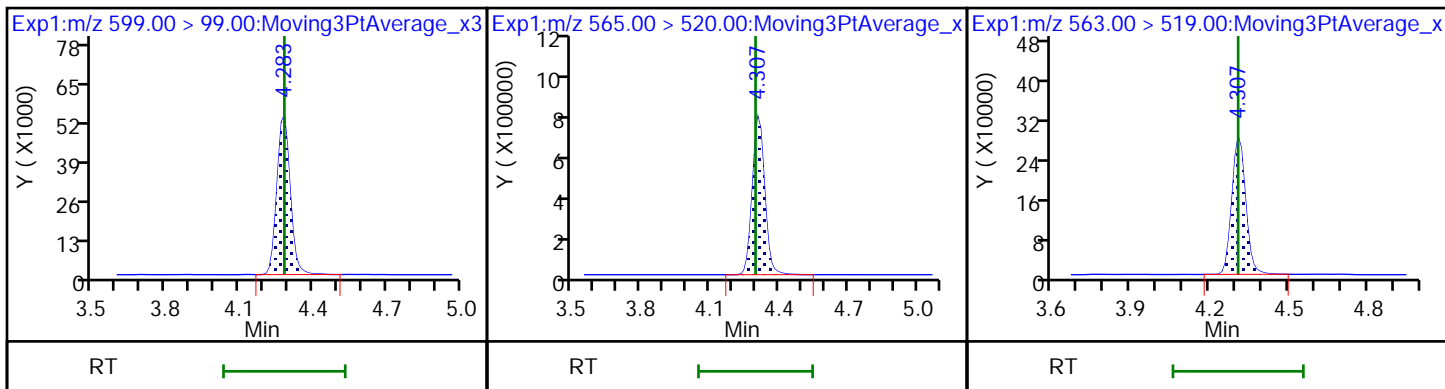
28 N-methylperfluorooctanesulfonamido 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

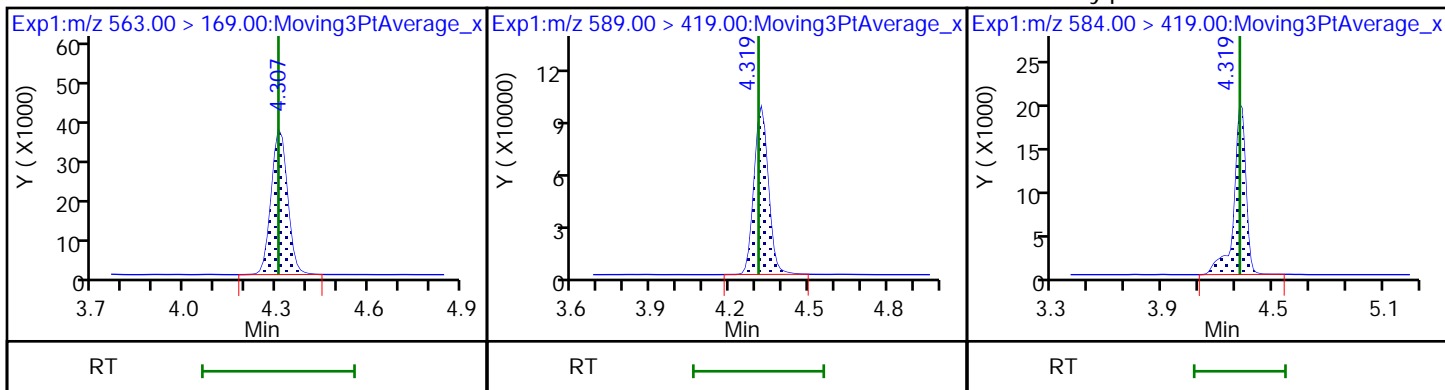
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

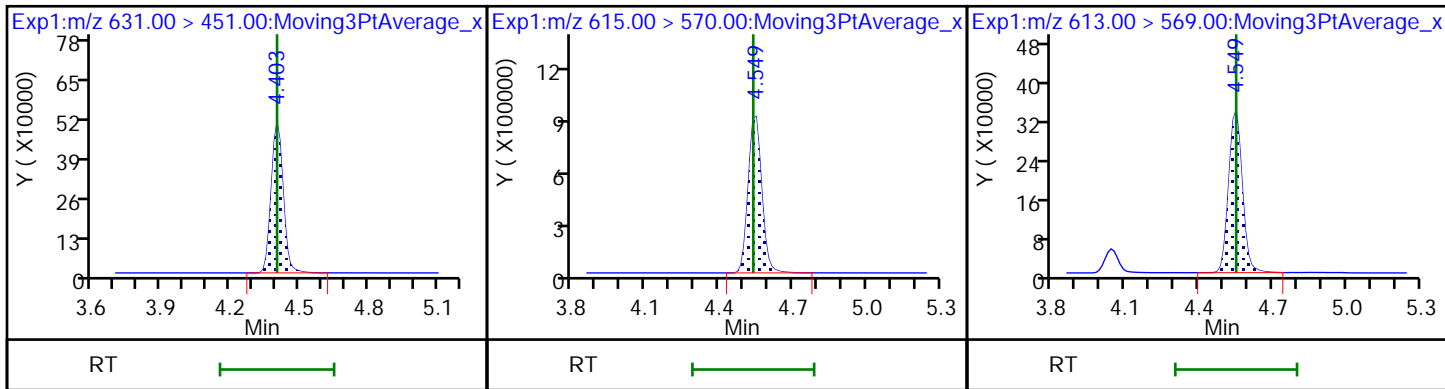
33 N-ethylperfluorooctanesulfonamido



66 11-Chloroeicosafluoro-3-oxaundeca

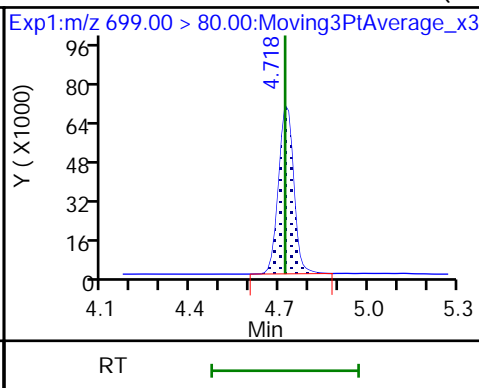
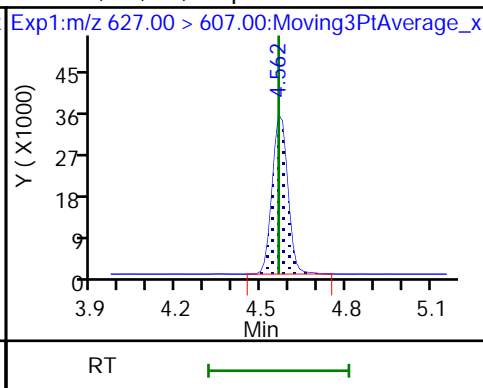
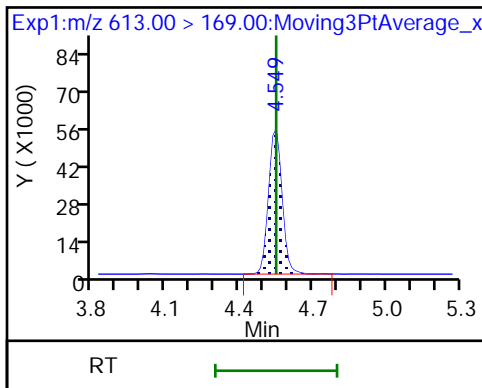
D 36 13C2 PFDoA

37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

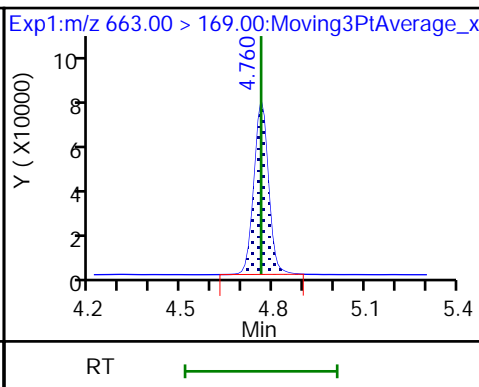
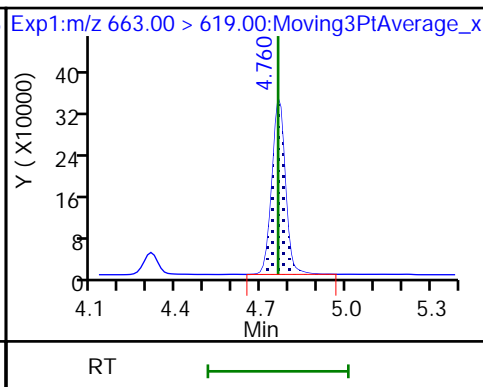
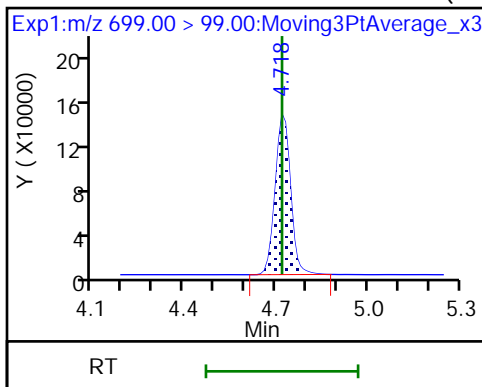
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

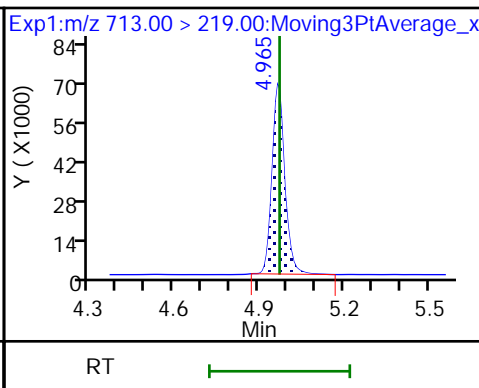
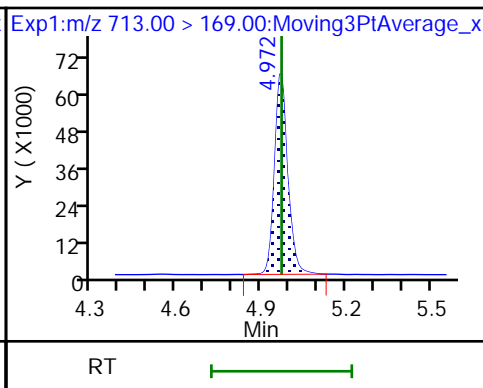
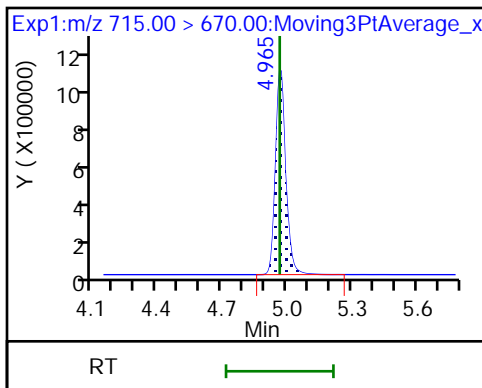
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

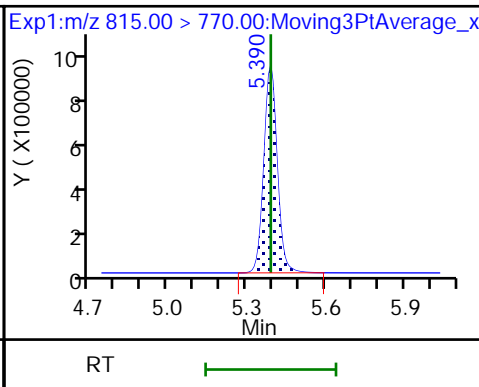
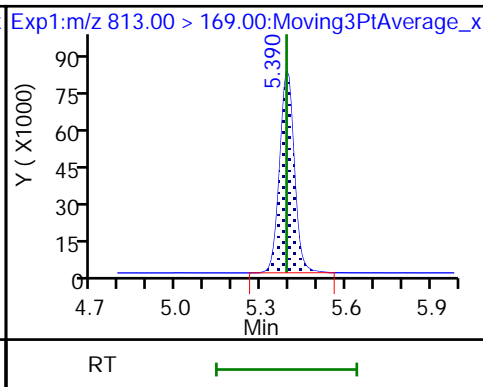
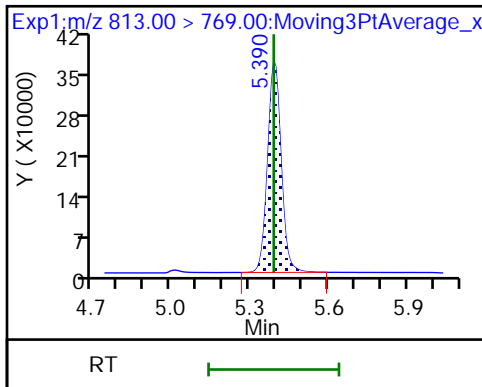
42 Perfluorotetradecanoic acid



45 Perfluorohexadecanoic acid

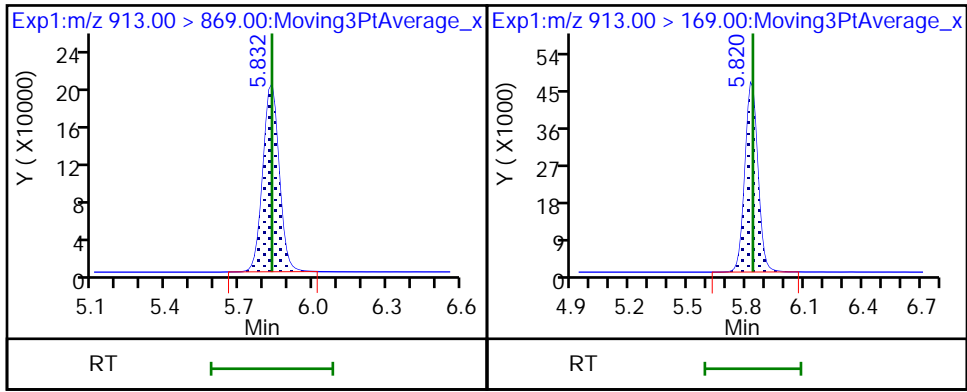
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Euofins TestAmerica, Burlington

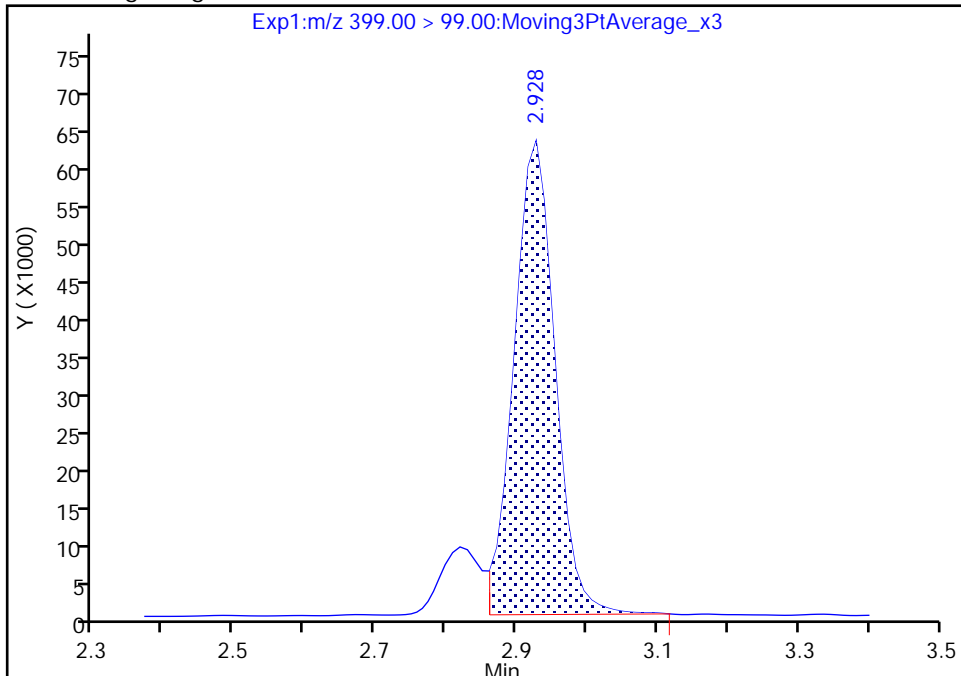
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E001.d  
Injection Date: 02-Aug-2019 03:49:20 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 48 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

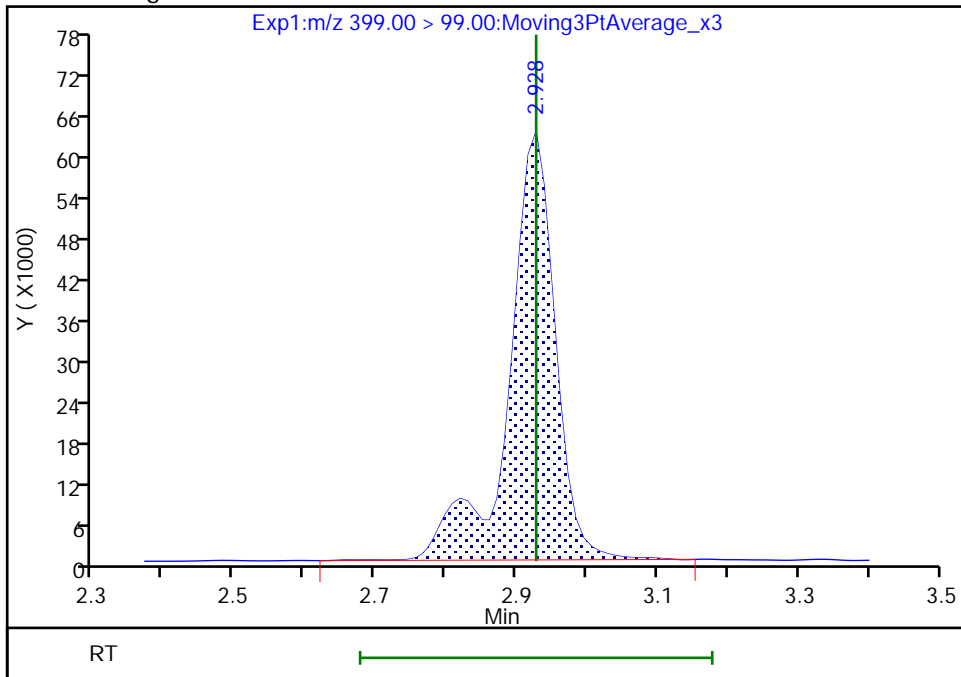
RT: 2.93  
Area: 254189  
Amount: 17.166842  
Amount Units: ng/ml

Processing Integration Results



RT: 2.93  
Area: 291885  
Amount: 17.166842  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 02-Aug-2019 17:25:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

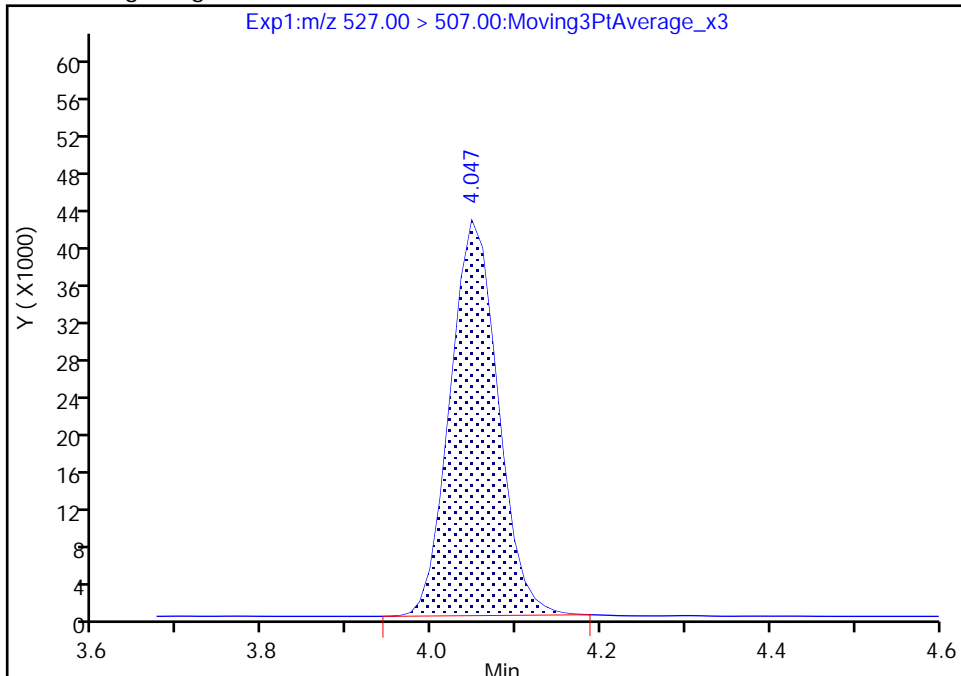
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Injection Date: 02-Aug-2019 03:49:20 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 48 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

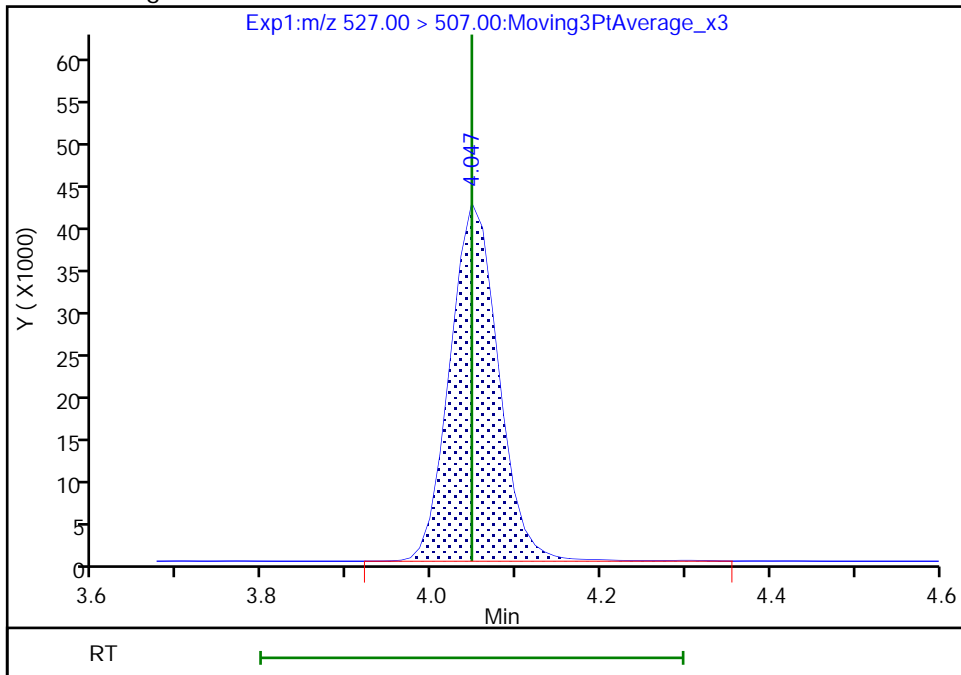
RT: 4.05  
Area: 165340  
Amount: 11.306096  
Amount Units: ng/ml

Processing Integration Results



RT: 4.05  
Area: 167201  
Amount: 11.435208  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 05-Aug-2019 18:28:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

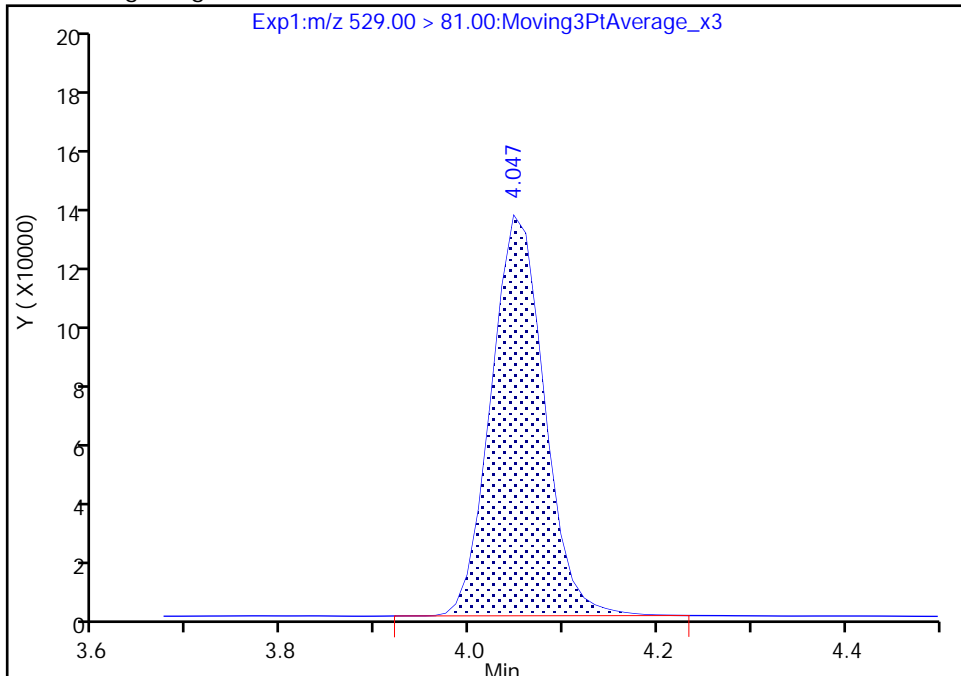
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Injection Date: 02-Aug-2019 03:49:20 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 48 Worklist Smp#: 1  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

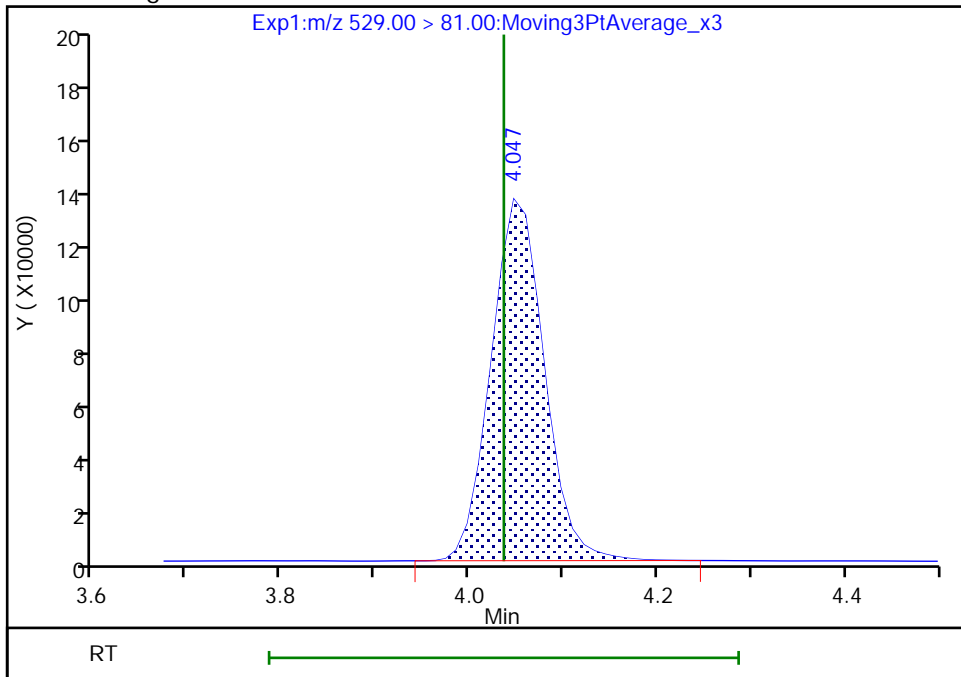
RT: 4.05  
Area: 524019  
Amount: 56.567856  
Amount Units: ng/ml

Processing Integration Results



RT: 4.05  
Area: 523934  
Amount: 56.558680  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 05-Aug-2019 18:23:17  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-145761/12 Calibration Date: 08/02/2019 05:17  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119E012.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9217	0.9270		50300	50000	0.6	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.9677	0.9760		50400	50000	0.9	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.017	0.9736		42300	44200	-4.2	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.389	1.882		36800	46700	-21.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.030	1.016		49300	50000	-1.3	40.0
Perfluoropentanesulfonic acid	AveID	0.8944	0.8422		44200	46900	-5.8	50.0
HFPO-DA	AveID	2.541	2.378		46800	50000	-6.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9367	0.9584		51200	50000	2.3	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.318	1.355		46800	45500	2.8	40.0
DONA	AveID	4.754	4.493		44500	47100	-5.5	50.0
6:2 FTS	AveID	1.715	1.436		39700	47400	-16.3	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.205	1.146		45300	47600	-4.9	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.056		48500	50000	-2.9	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9465	0.9534		46700	46400	0.7	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9059	0.9342		51600	50000	3.1	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	2.174	1.664		35700	46600	-23.5	50.0
Perfluorononanesulfonic acid	AveID	0.8445	0.8559		48600	48000	1.3	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9682	0.9252		47800	50000	-4.4	40.0
8:2 FTS	AveID	1.337	0.9489		34000	47900	-29.0	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9129	0.8998		49300	50000	-1.4	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7567	0.7318		48400	50000	-3.3	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6627	0.7230		52600	48200	9.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8581	0.8225		47900	50000	-4.1	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6400	0.6073		47400	50000	-5.1	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	3.310	2.248		32000	47100	-32.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.022	1.119		54700	50000	9.4	40.0
10:2 FTS	AveID	0.8462	0.6052		34500	48200	-28.5	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3176	0.3077		46900	48400	-3.1	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.9176	0.9662		52600	50000	5.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1331	0.1565		58800	50000	17.6	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-145761/12 Calibration Date: 08/02/2019 05:17  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119E012.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9459		49700	50000	-0.7	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7518	0.6770		45000	50000	-10.0	50.0
13C4 PFBA	Ave	0.9423	1.039		55100	50000	10.2	50.0
13C5 PFPeA	Ave	0.8851	0.8933		50500	50000	0.9	50.0
13C3 PFBS	Ave	0.8694	0.9115		48800	46500	4.8	50.0
M2-4:2 FTS	Ave	0.0841	0.0973		54000	46700	15.7	50.0
13C2 PFHxA	Ave	0.8791	0.9011		51200	50000	2.5	50.0
13C3 HFPO-DA	Ave	0.0564	0.0659		58400	50000	16.8	50.0
13C4 PFHpA	Ave	0.8611	0.8821		51200	50000	2.4	50.0
1802 PFHxS	Ave	0.5092	0.4861		45200	47300	-4.5	50.0
M2-6:2 FTS	Ave	0.1060	0.1086		48700	47500	2.5	50.0
13C4 PFOA	Ave	0.9094	0.9162		50400	50000	0.7	50.0
13C4 PFOS	Ave	0.4242	0.4433		50000	47800	4.5	50.0
13C5 PFNA	Ave	0.8296	0.8545		51500	50000	3.0	50.0
13C2 PFDA	Ave	0.6637	0.7396		55700	50000	11.4	50.0
M2-8:2 FTS	Ave	0.0978	0.1114		54500	47900	13.9	50.0
13C8 FOSA	Ave	0.7620	0.8505		55800	50000	11.6	50.0
d3-NMeFOSAA	Ave	0.0848	0.0758		44700	50000	-10.6	50.0
13C2 PFUnA	Ave	0.6045	0.6139		50800	50000	1.6	50.0
d5-NEtFOSAA	Ave	0.0945	0.0838		44300	50000	-11.3	50.0
13C2 PFDoA	Ave	0.6507	0.6420		49300	50000	-1.3	50.0
13C2 PFTeDA	Ave	0.8960	0.7504		41900	50000	-16.2	50.0
13C2 PFHxDA	Ave	0.7972	0.7362		46200	50000	-7.7	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E012.d  
 Lims ID: CCV L5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 02-Aug-2019 05:17:43 ALS Bottle#: 5 Worklist Smp#: 12  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L5  
 Misc. Info.: 200-0037095-012 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3

Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: chirgwinb Date: 02-Aug-2019 17:26:43

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.505	4699423	55.1	110	13822	
2 Perfluorobutanoic acid	212.90 > 169.00	1.709	1.699	0.010	1.005	4356535	50.3	101	816	
D 3 13C5 PFPeA	267.90 > 223.00	2.068	2.054	0.014	0.615	4040813	50.5	101	8853	
4 Perfluoropentanoic acid	262.90 > 219.00	2.068	2.067	0.001	1.000	3943848	50.4	101	227	
D 47 13C3 PFBS	301.90 > 80.00	2.094	2.080	0.014	0.623	3834647	48.8	105	815823	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.094	2.093	0.001	1.000	3548648	42.3	Target=1.90	95.8	8264
	298.90 > 99.00	2.094	2.093	0.001	1.000	1721840		2.06(0.95-2.85)		2022
D 60 M2-4:2 FTS	329.00 > 81.00	2.418	2.417	0.001	0.719	411205	54.0	116	602	
61 1H,1H,2H,2H-perfluorohexanesulfoni	327.00 > 307.00	2.427	2.417	0.010	1.004	773815	36.8	78.8	7815	
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.732	4076110	51.2	102	9409	
6 Perfluorohexanoic acid	313.00 > 269.00	2.471	2.459	0.012	1.005	4142621	49.3	Target=13.23	98.7	1260
	313.00 > 119.00	2.459	2.459	0.0	1.000	338524		12.24(6.61-19.84)		484
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.471	2.470	0.001	1.180	3257109	44.2	Target=2.73	94.2	6030
	349.00 > 99.00	2.471	2.470	0.001	1.180	1105979		2.95(1.37-4.10)		2681
D 64 13C3 HFPO-DA	332.10 > 287.00	2.596	2.596	0.0	0.772	298128	58.4	117	1942	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.596	2.596	0.0	1.000	708964	46.8		93.6	229	
D 11 18O2 PFHxS										
403.00 > 84.00	2.928	2.916	0.012	0.871	2080084	45.2		95.5	6542	
D 9 13C4 PFHpA										
367.00 > 322.00	2.928	2.928	0.0	0.871	3990462	51.2		102	6383	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.928	2.928	0.0	1.000	2711090	46.8	Target=3.37	103	2964	
399.00 > 99.00	2.928	2.928	0.0	1.000	744706		3.64(1.69-5.06)		1085	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.928	2.928	0.0	1.000	3824551	51.2	Target=3.76	102	1075	
363.00 > 169.00	2.928	2.928	0.0	1.000	1042994		3.67(1.88-5.65)		3170	
77 DONA										
377.00 > 251.00	2.985	2.973	0.012	0.804	8487326	44.5	Target=2.72	94.5	5480	
377.00 > 85.00	2.985	2.973	0.012	0.804	3232994		2.63(1.36-4.07)		4539	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.344	3.335	0.009	0.994	466888	48.7		103	1406	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.344	3.336	0.008	1.000	668912	39.7		83.7	1357	
D 14 13C4 PFOA										
417.00 > 372.00	3.362	3.344	0.018	1.000	4144506	50.4		101	12898	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.353	3.345	0.008	0.903	2188134	45.3	Target=4.80	95.1	5109	
449.00 > 99.00	3.353	3.345	0.008	0.903	419177		5.22(2.40-7.20)		2255	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.362	3.355	0.007	1.000	4377726	48.5	Target=2.84	97.1	580	
413.00 > 169.00	3.362	3.355	0.007	1.000	1663037		2.63(1.42-4.25)		4851	
* 62 13C2 PFOA										
415.00 > 370.00	3.362	3.355	0.007		4523669	50.0			9294	
D 18 13C4 PFOS										
503.00 > 80.00	3.712	3.695	0.017	1.104	1917238	50.0		105	6394	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.712	3.703	0.009	1.000	1774316	46.7	Target=4.33	101	10322	
499.00 > 99.00	3.712	3.703	0.009	1.000	355029		5.00(2.16-6.49)		1380	
D 19 13C5 PFNA										
468.00 > 423.00	3.733	3.715	0.017	1.110	3865509	51.5		103	11074	
20 Perfluorononanoic acid										
463.00 > 419.00	3.733	3.723	0.009	1.000	3611242	51.6	Target=8.15	103	1334	
463.00 > 169.00	3.733	3.723	0.009	1.000	453684		7.96(4.08-12.23)		6872	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.885	3.875	0.010	1.047	3110545	35.7		76.5	10454	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.021	4.010	0.011	1.083	1647850	48.6	Target=2.42	101	6174	
549.00 > 99.00	4.021	4.010	0.011	1.083	626483		2.63(1.21-3.63)		2106	
D 23 13C2 PFDA										
515.00 > 470.00	4.045	4.036	0.009	1.203	3345828	55.7		111	12859	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.058	4.036	0.022	1.207	482589	54.5		114	1392	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.045	4.047	-0.002	1.000	3095544	47.8	Target=9.58	95.6	1383	
513.00 > 169.00	4.045	4.047	-0.002	1.000	363787		8.51(4.79-14.37)		3520	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.058	4.047	0.011	1.000	457913	34.0		71.0	3632	
D 21 13C8 FOSA										
506.00 > 78.00	4.083	4.061	0.022	1.214	3847191	55.8		112	5754	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.083	4.072	0.011	1.000	3461608	49.3		98.6	6226	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.185	4.178	0.007	1.245	342906	44.7		89.4	850	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.197	4.187	0.010	1.003	250950	48.4		96.7	696	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.281	4.283	-0.002	1.153	1397736	52.6	Target=2.64	109	5649	
599.00 > 99.00	4.281	4.283	-0.002	1.153	536973		2.60(1.32-3.96)		2014	
D 30 13C2 PFUnA										
565.00 > 520.00	4.317	4.296	0.021	1.284	2777269	50.8		102	8829	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.317	4.307	0.010	1.000	2284156	47.9	Target=7.95	95.9	943	
563.00 > 169.00	4.317	4.307	0.010	1.000	315148		7.25(3.98-11.93)		3507	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.329	4.308	0.021	1.288	378860	44.3		88.7	1353	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.329	4.319	0.010	1.000	230065	47.4		94.9	2032	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.413	4.403	0.010	1.189	4246395	32.0		67.9	15021	
D 36 13C2 PFDoA										
615.00 > 570.00	4.548	4.537	0.011	1.353	2904316	49.3		98.7	7467	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.548	4.549	-0.001	1.000	3248656	54.7	Target=7.49	109	221	
613.00 > 169.00	4.548	4.549	-0.001	1.000	443339		7.33(3.75-11.24)		2882	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.573	4.562	0.011	1.127	293878	34.5		71.5	5182	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.728	4.718	0.010	1.274	597336	46.9	Target=0.50	96.9	1208	
699.00 > 99.00	4.728	4.718	0.010	1.274	1225124		0.49(0.25-0.76)		4599	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.769	4.760	0.009	1.049	2806052	52.6	Target=5.71	105	250	
663.00 > 169.00	4.769	4.760	0.009	1.049	622833		4.51(2.85-8.56)		3111	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.479	3394649	41.9		83.8	9631	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.972	4.972	0.0	1.000	531408	58.8	Target=1.02	118	3727	
713.00 > 219.00	4.972	4.972	0.0	1.000	532596		1.00(0.51-1.54)		6431	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.398	5.390	0.008	1.001	3150149	49.7	Target=5.23	99.3	780	
813.00 > 169.00	5.398	5.390	0.008	1.001	739377		4.26(2.62-7.85)		5167	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.390	5.390	0.0	1.603	3330162	46.2		92.3	5780	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.832	5.832	0.0	1.082	2254458	45.0	Target=5.61	90.0	1315	
913.00 > 169.00	5.832	5.832	0.0	1.082	531405		4.24(2.80-8.41)		4415	

Reagents:

LCPFAS32-L5\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E012.d

Injection Date: 02-Aug-2019 05:17:43

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 5

Worklist Smp#: 12

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

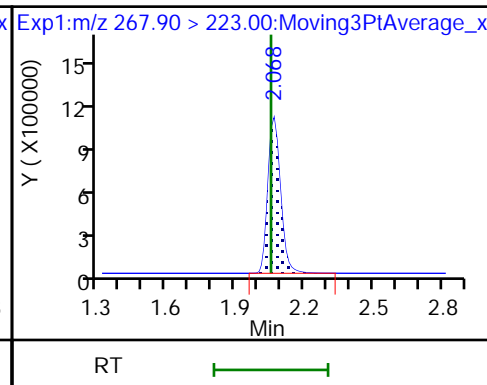
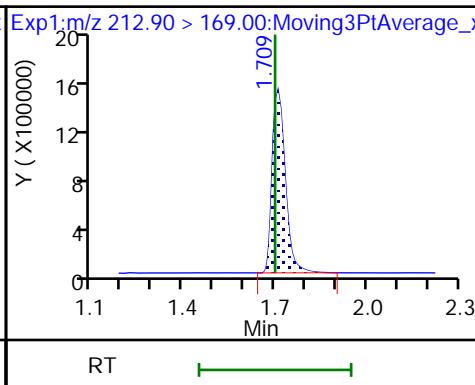
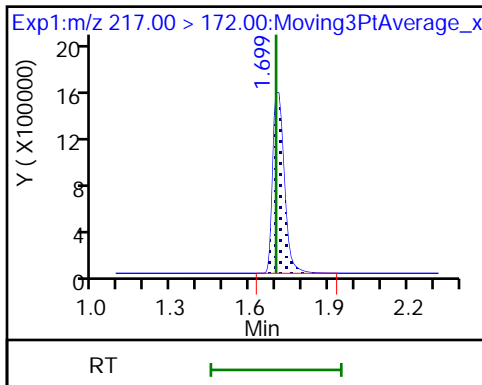
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

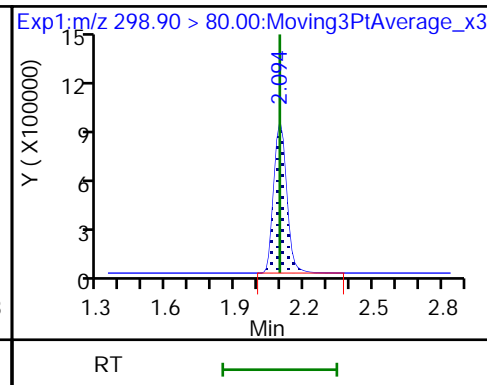
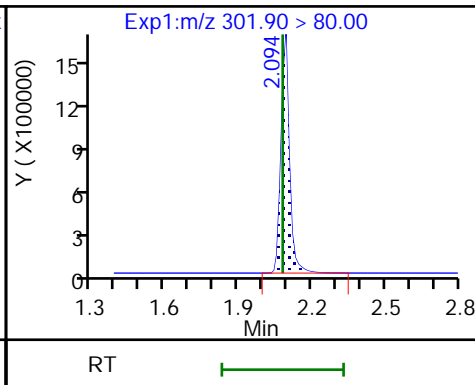
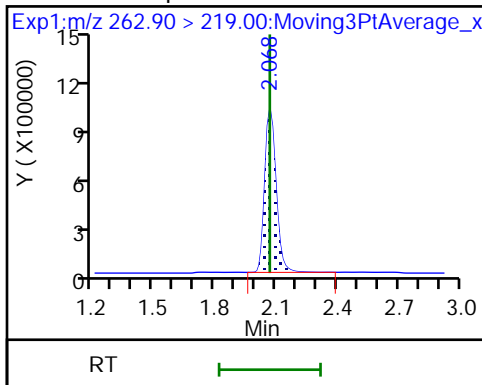
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

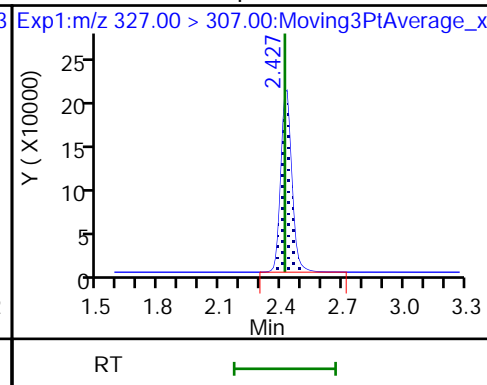
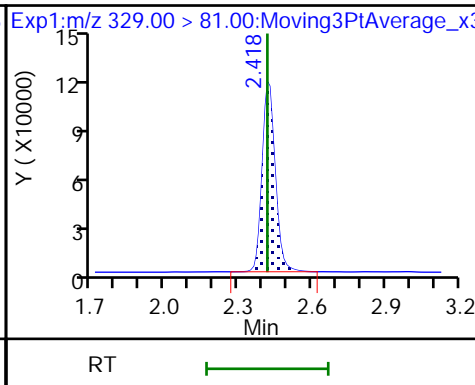
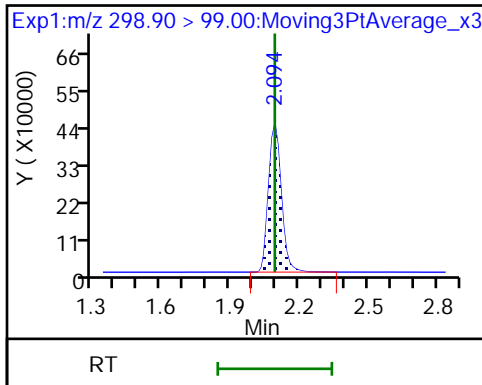
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

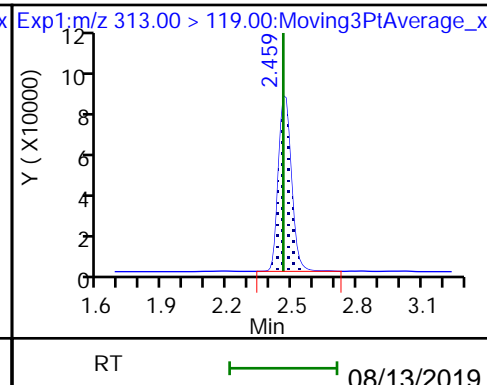
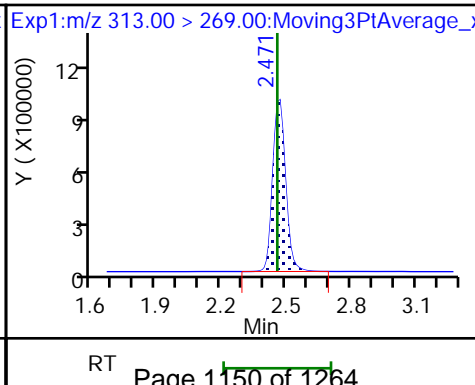
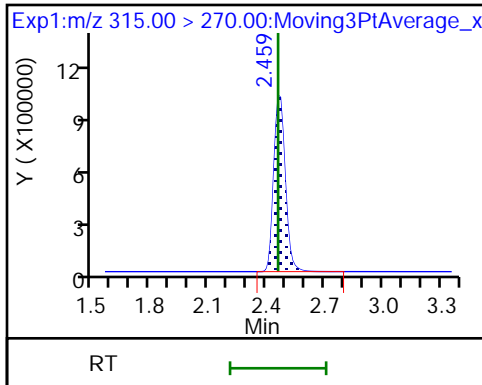
61 1H,1H,2H,2H-perfluorohexanesulfoni



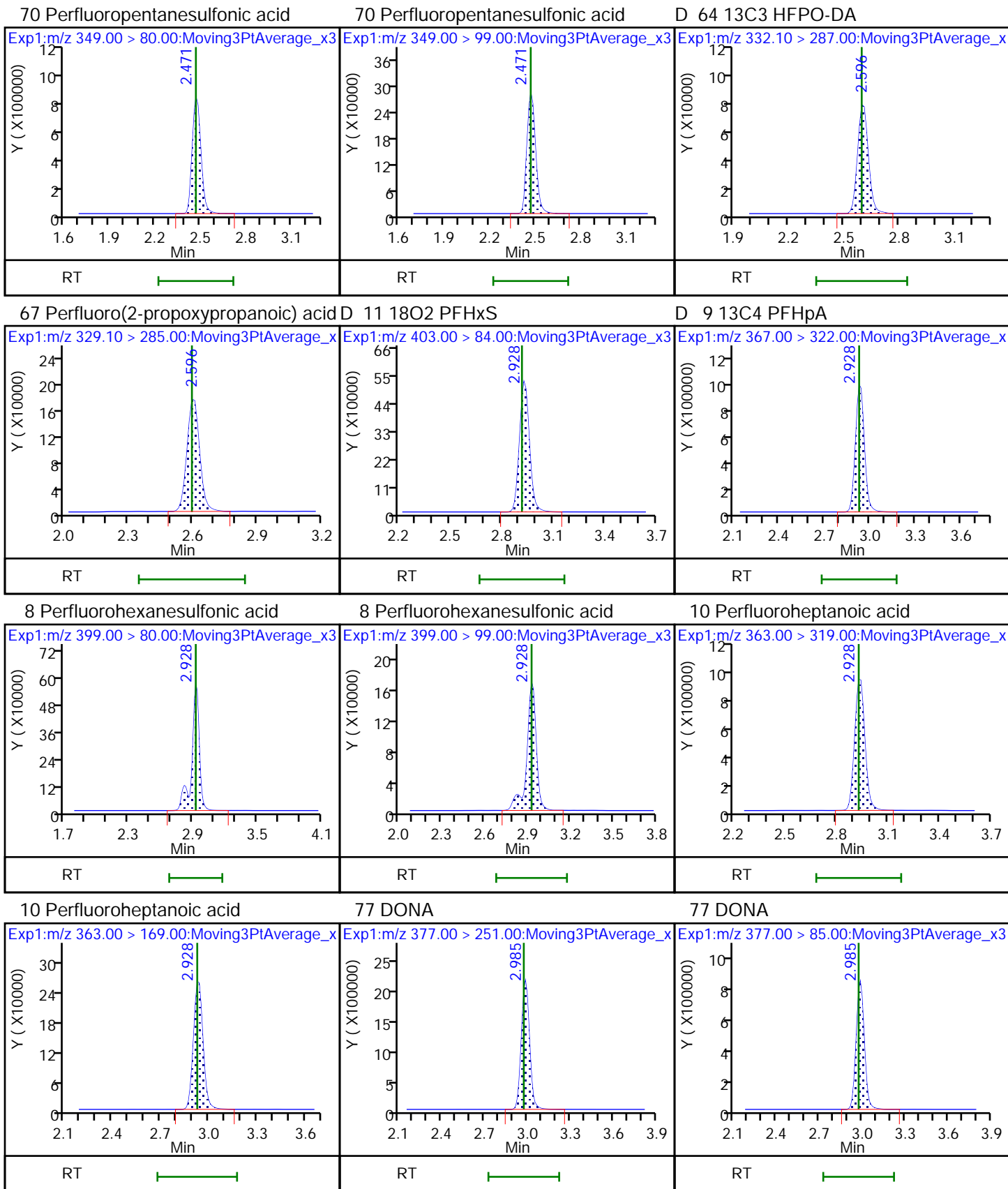
D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

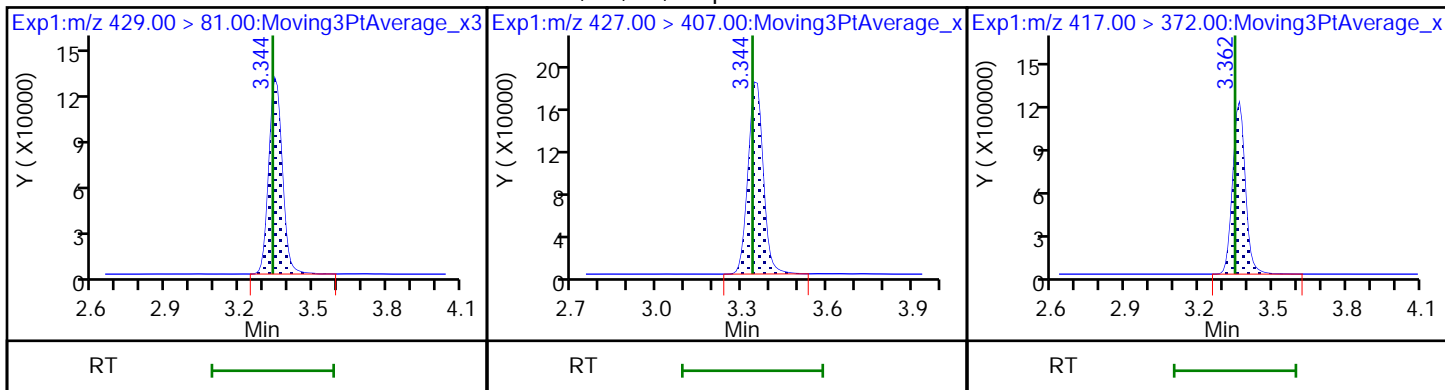






D 12 M2-6:2 FTS

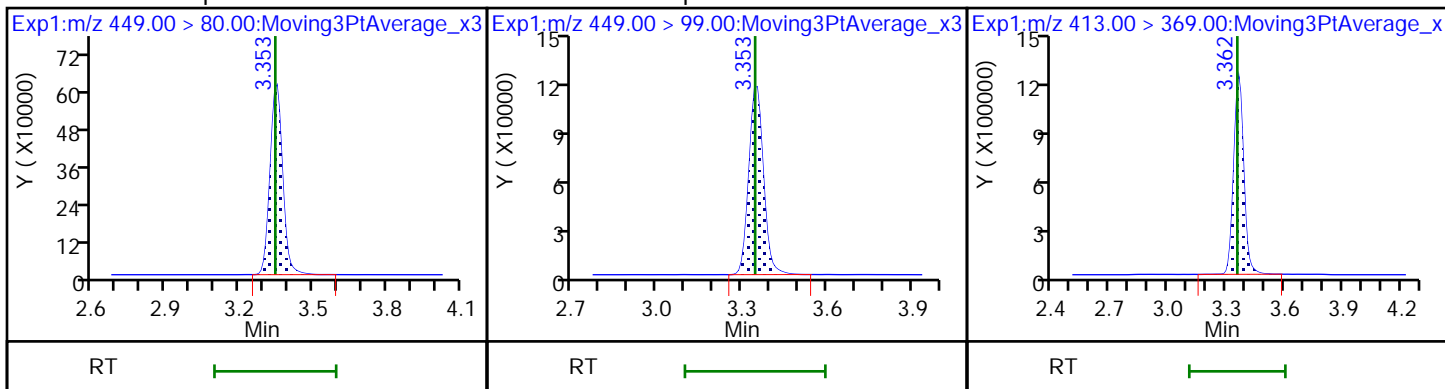
13 1H,1H,2H,2H-perfluorooctanesulfonD 14 13C4 PFOA



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

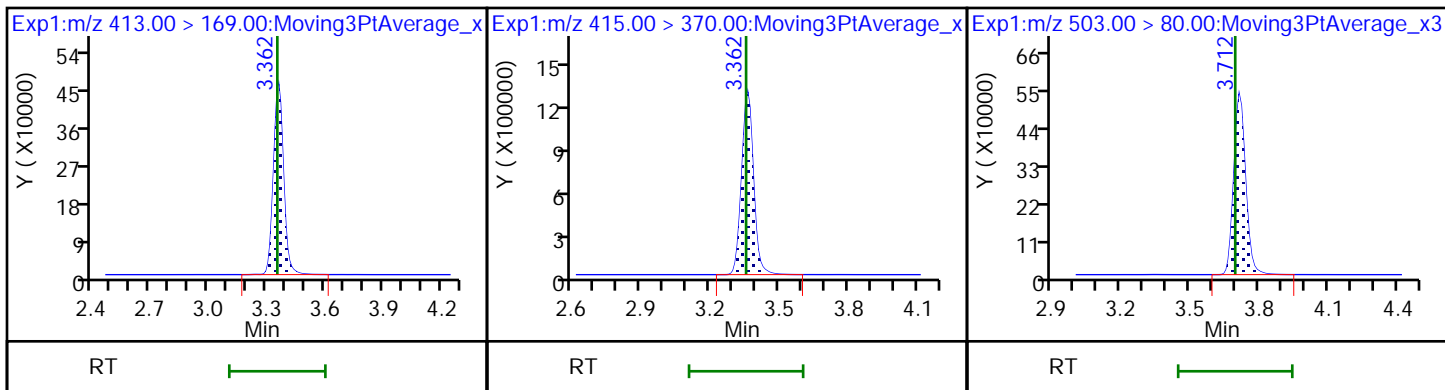
15 Perfluorooctanoic acid



15 Perfluorooctanoic acid

\* 62 13C2 PFOA

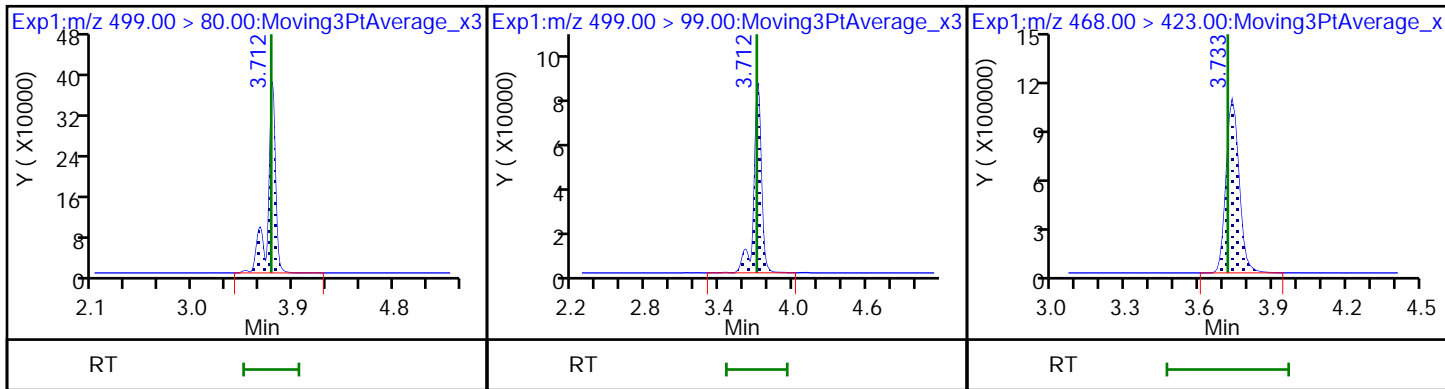
D 18 13C4 PFOS

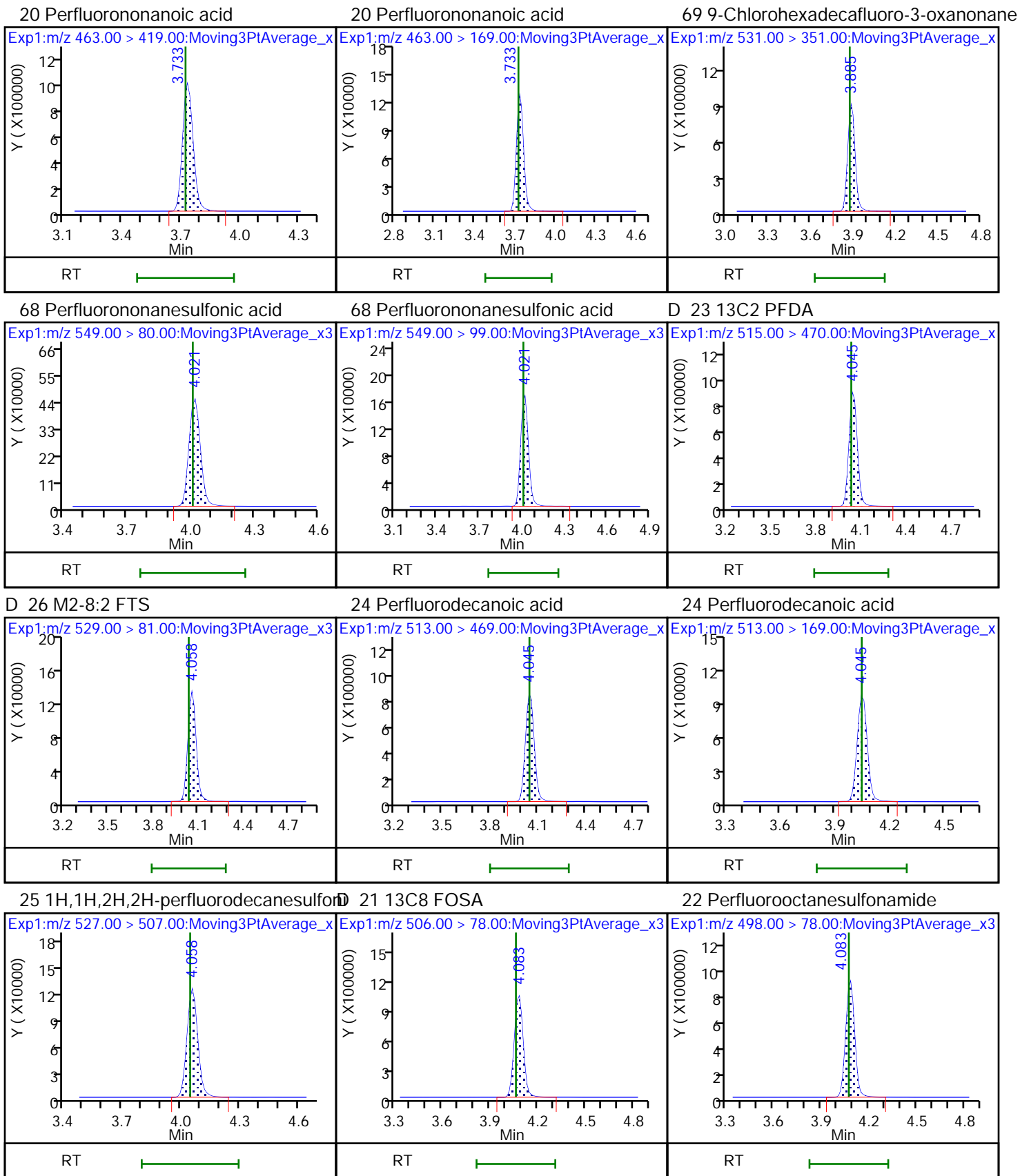


17 Perfluorooctanesulfonic acid

17 Perfluorooctanesulfonic acid

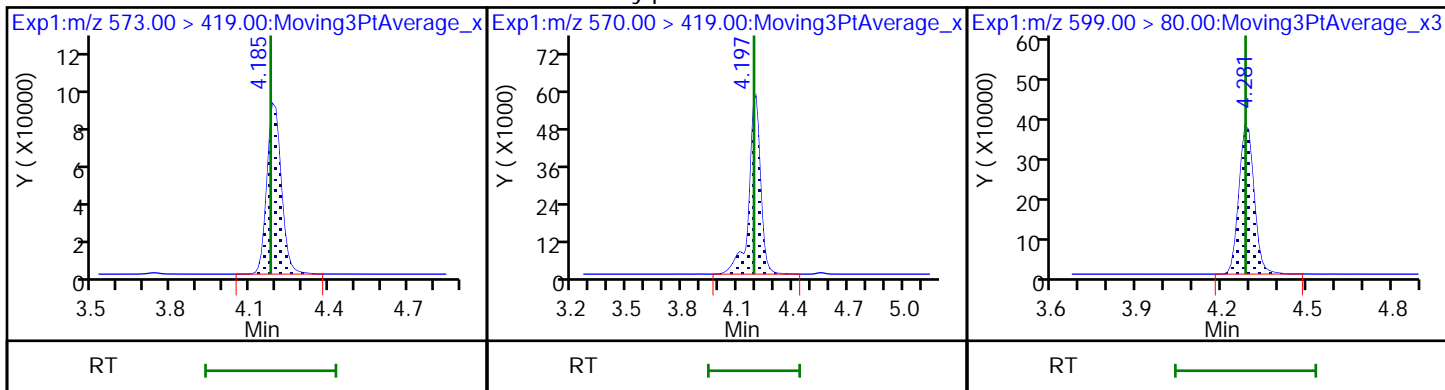
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

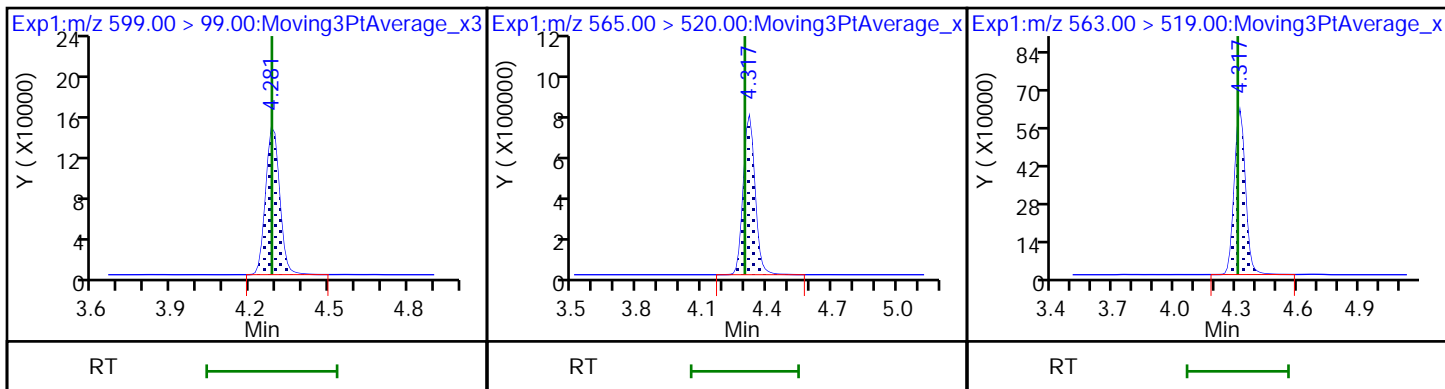
28 N-methylperfluorooctanesulfonamido 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

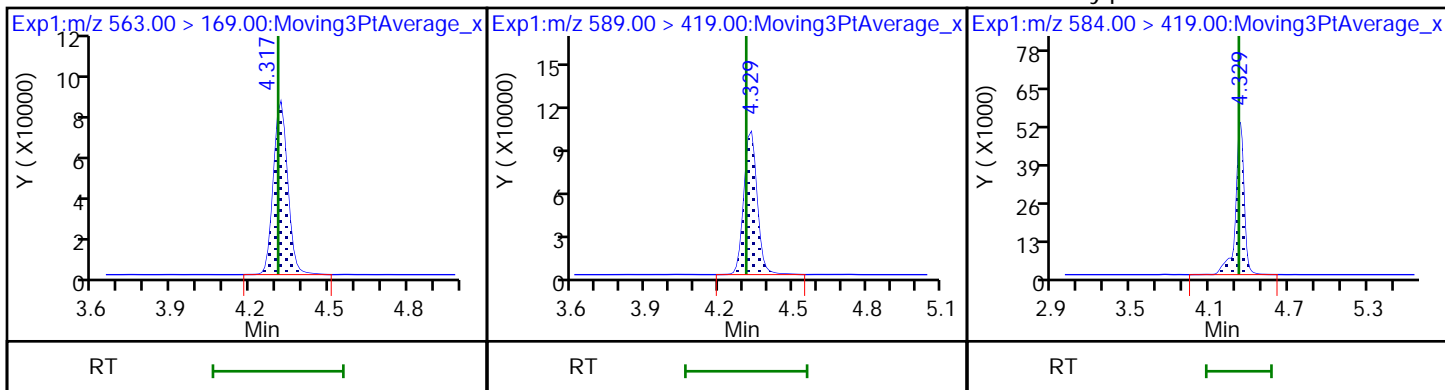
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

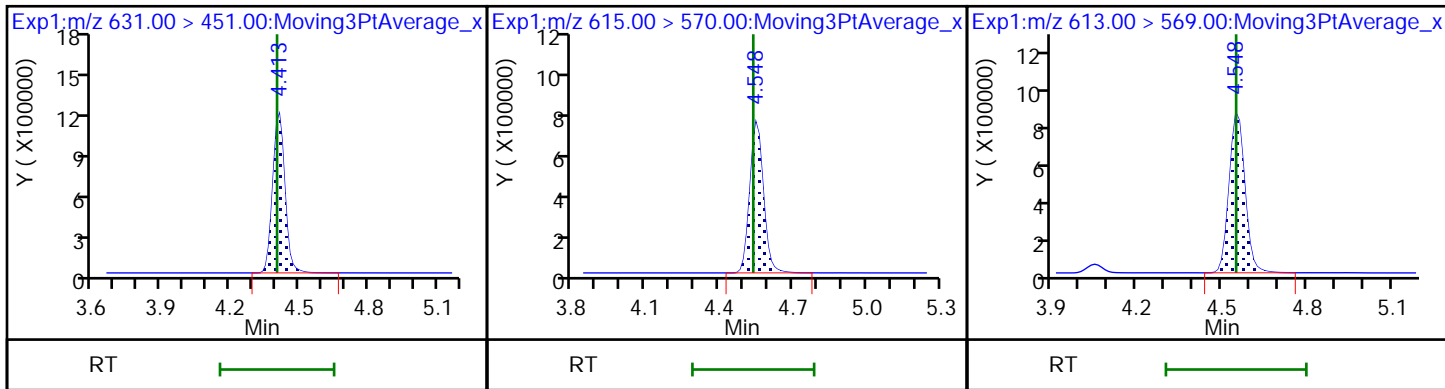
33 N-ethylperfluorooctanesulfonamido



66 11-Chloroeicosafluoro-3-oxaundecanoic acid

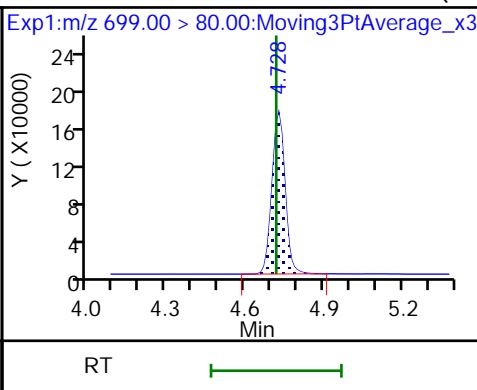
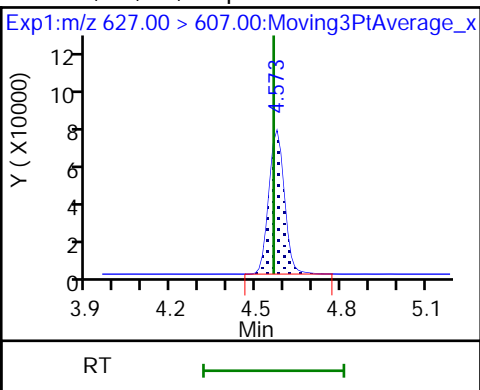
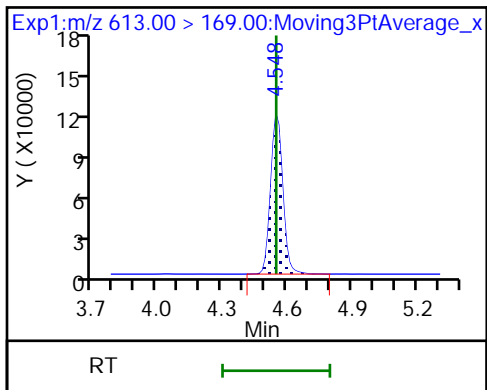
D 36 13C2 PFDoA

37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

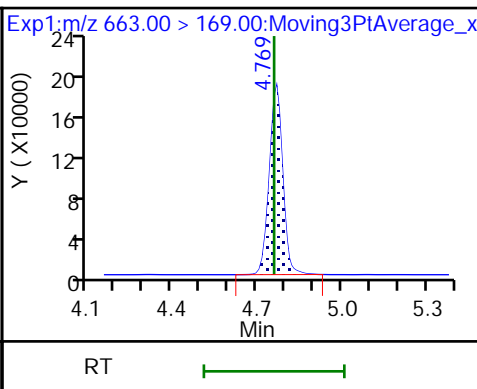
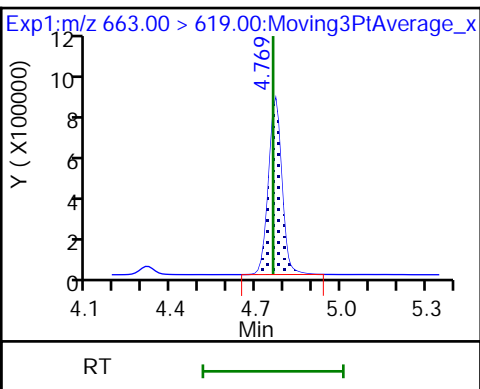
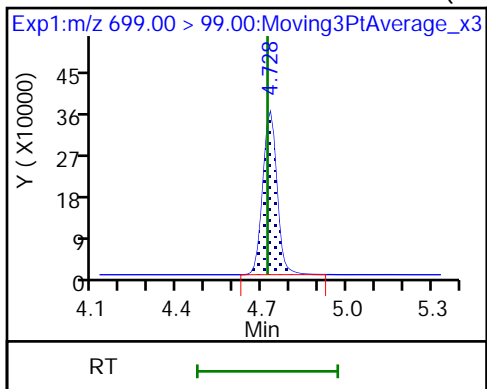
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

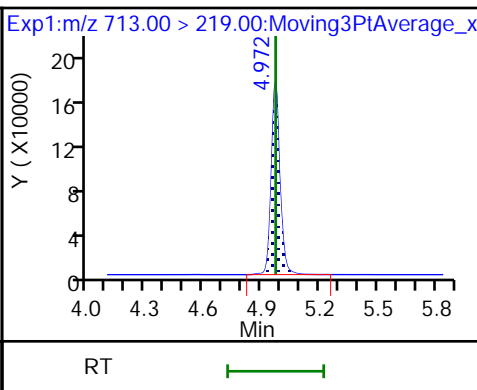
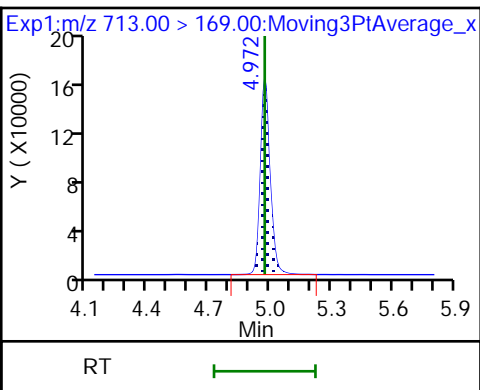
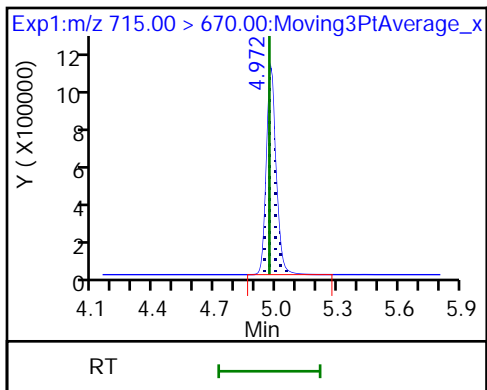
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

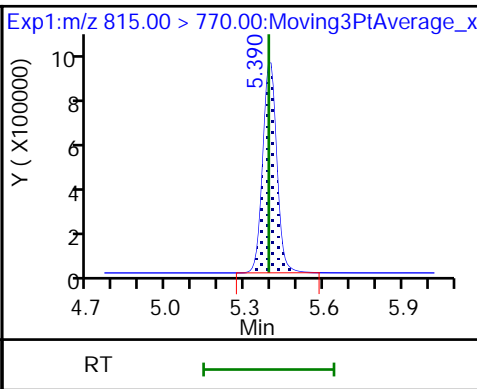
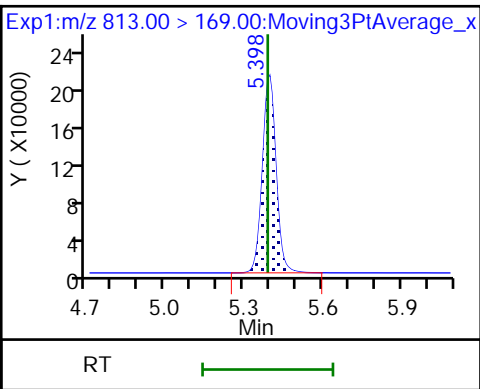
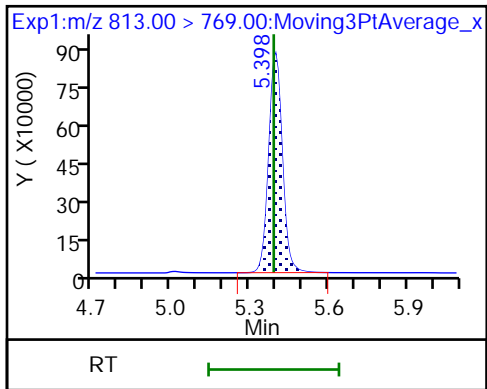
42 Perfluorotetradecanoic acid



45 Perfluorohexadecanoic acid

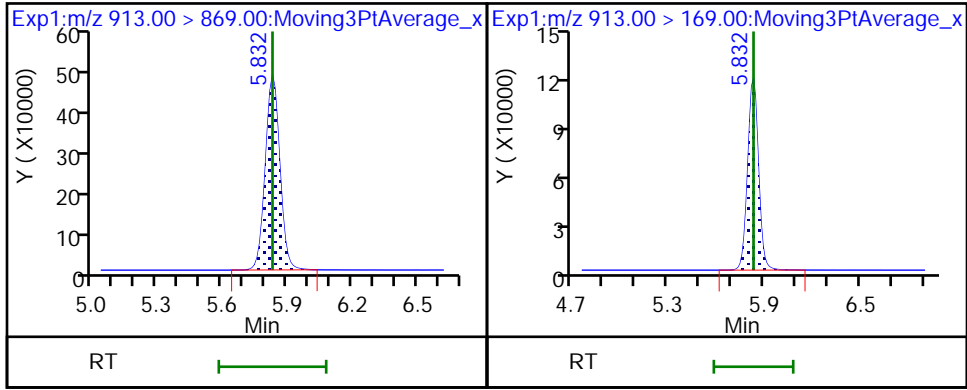
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-145761/24 Calibration Date: 08/02/2019 06:54  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119E024.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9217	0.9089		49300	50000	-1.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	0.9677	0.9215		47600	50000	-4.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.017	0.9878		42900	44200	-2.8	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	2.389	1.933		37800	46700	-19.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.030	1.049		50900	50000	1.9	40.0
Perfluoropentanesulfonic acid	AveID	0.8944	0.8867		46500	46900	-0.9	50.0
HFPO-DA	AveID	2.541	2.578		50700	50000	1.5	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	0.9367	0.9482		50600	50000	1.2	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.318	1.264		43600	45500	-4.1	40.0
DONA	AveID	4.754	4.454		44100	47100	-6.3	50.0
6:2 FTS	AveID	1.715	1.452		40100	47400	-15.3	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.205	1.156		45700	47600	-4.0	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.088	1.129		51900	50000	3.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	0.9465	0.9443		46300	46400	-0.2	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9059	0.9518		52500	50000	5.1	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	2.174	1.767		37900	46600	-18.7	50.0
Perfluorononanesulfonic acid	AveID	0.8445	0.8583		48800	48000	1.6	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9682	0.9473		48900	50000	-2.2	40.0
8:2 FTS	AveID	1.337	0.9504		34100	47900	-28.9	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9129	0.8758		48000	50000	-4.1	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.7567	0.7668		50700	50000	1.3	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6627	0.7787		56600	48200	17.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8581	0.7719		45000	50000	-10.0	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.6400	0.6205		48500	50000	-3.0	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	3.310	2.411		34300	47100	-27.2	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.022	1.027		50200	50000	0.5	40.0
10:2 FTS	AveID	0.8462	0.5518		31400	48200	-34.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.3176	0.3165		48200	48400	-0.4	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.9176	0.8480		46200	50000	-7.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1331	0.1596		60000	50000	19.9	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-145761/24 Calibration Date: 08/02/2019 06:54  
 Instrument ID: LC812 Calib Start Date: 07/26/2019 10:54  
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 07/26/2019 11:34  
 Lab File ID: SC080119E024.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9821		51600	50000	3.1	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7518	0.6835		45500	50000	-9.1	50.0
13C4 PFBA	Ave	0.9423	1.055		56000	50000	12.0	50.0
13C5 PFPeA	Ave	0.8851	0.9326		52700	50000	5.4	50.0
13C3 PFBS	Ave	0.8694	0.8920		47700	46500	2.6	50.0
M2-4:2 FTS	Ave	0.0841	0.0951		52800	46700	13.0	50.0
13C2 PFHxA	Ave	0.8791	0.9155		52100	50000	4.1	50.0
13C3 HFPO-DA	Ave	0.0564	0.0528		46800	50000	-6.4	50.0
13C4 PFHpA	Ave	0.8611	0.8627		50100	50000	0.2	50.0
1802 PFHxS	Ave	0.5092	0.5004		46500	47300	-1.7	50.0
M2-6:2 FTS	Ave	0.1060	0.1102		49400	47500	4.0	50.0
13C4 PFOA	Ave	0.9094	0.8895		48900	50000	-2.2	50.0
13C4 PFOS	Ave	0.4242	0.4432		49900	47800	4.5	50.0
13C5 PFNA	Ave	0.8296	0.8768		52800	50000	5.7	50.0
13C2 PFDA	Ave	0.6637	0.7445		56100	50000	12.2	50.0
M2-8:2 FTS	Ave	0.0978	0.1190		58300	47900	21.7	50.0
13C8 FOSA	Ave	0.7620	0.8856		58100	50000	16.2	50.0
d3-NMeFOSAA	Ave	0.0848	0.0803		47400	50000	-5.3	50.0
13C2 PFUnA	Ave	0.6045	0.6521		53900	50000	7.9	50.0
d5-NEtFOSAA	Ave	0.0945	0.0866		45800	50000	-8.4	50.0
13C2 PFDoA	Ave	0.6507	0.7263		55800	50000	11.6	50.0
13C2 PFTeDA	Ave	0.8960	0.7472		41700	50000	-16.6	50.0
13C2 PFHxDA	Ave	0.7972	0.7495		47000	50000	-6.0	50.0



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E024.d  
 Lims ID: CCV L5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 02-Aug-2019 06:54:22 ALS Bottle#: 17 Worklist Smp#: 24  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L5  
 Misc. Info.: 200-0037095-012 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:20 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: chirgwinb Date: 05-Aug-2019 18:51:21

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.506	4759367	56.0	112	15041	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.000	4325573	49.3	98.6	775	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.613	4206866	52.7	105	9156	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	3876618	47.6	95.2	224	
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.620	3741854	47.7	103	1498852	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	3513471	42.9	Target=1.90	97.2	8692
	298.90 > 99.00	2.093	2.093	0.0	1.000	1796307		1.96(0.95-2.85)		2075
D 60 M2-4:2 FTS	329.00 > 81.00	2.426	2.417	0.009	0.719	400522	52.8	113	578	
61 1H,1H,2H,2H-perfluorohexanesulfoni	327.00 > 307.00	2.426	2.417	0.009	1.000	774017	37.8	80.9	5553	
D 7 13C2 PFHxA	315.00 > 270.00	2.470	2.459	0.011	0.732	4129440	52.1	104	7939	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.000	4331850	50.9	Target=13.23	102	1437
	313.00 > 119.00	2.470	2.459	0.011	1.000	353099		12.27(6.61-19.84)		494
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.483	2.470	0.013	1.186	3346424	46.5	Target=2.73	99.1	7336
	349.00 > 99.00	2.483	2.470	0.013	1.186	1169867		2.86(1.37-4.10)		2368
D 64 13C3 HFPO-DA	332.10 > 287.00	2.608	2.596	0.012	0.773	238139	46.8	93.6	1352	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.608	2.596	0.012	1.000	614018	50.7		101	198	
D 11 18O2 PFHxS										
403.00 > 84.00	2.939	2.916	0.023	0.871	2135086	46.5		98.3	5773	
D 9 13C4 PFHpA										
367.00 > 322.00	2.939	2.928	0.011	0.871	3891540	50.1		100	7865	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.939	2.928	0.011	1.000	2596351	43.6	Target=3.37	95.9	2679	
399.00 > 99.00	2.939	2.928	0.011	1.000	737630		3.52(1.69-5.06)		983	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.939	2.928	0.011	1.000	3689909	50.6	Target=3.76	101	1042	
363.00 > 169.00	2.939	2.928	0.011	1.000	1034148		3.57(1.88-5.65)		3083	
77 DONA										
377.00 > 251.00	2.995	2.973	0.022	0.805	8387760	44.1	Target=2.72	93.7	5411	
377.00 > 85.00	2.995	2.973	0.022	0.805	3210755		2.61(1.36-4.07)		3720	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.355	3.335	0.020	0.995	472339	49.4		104	1035	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.355	3.336	0.019	1.000	684574	40.1		84.7	1979	
D 14 13C4 PFOA										
417.00 > 372.00	3.373	3.344	0.029	1.000	4012144	48.9		97.8	10670	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.364	3.345	0.019	0.904	2200208	45.7	Target=4.80	96.0	5704	
449.00 > 99.00	3.364	3.345	0.019	0.904	416988		5.28(2.40-7.20)		2358	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.373	3.355	0.018	1.000	4528175	51.9	Target=2.84	104	587	
413.00 > 169.00	3.373	3.355	0.018	1.000	1656906		2.73(1.42-4.25)		5299	
* 62 13C2 PFOA										
415.00 > 370.00	3.373	3.355	0.018		4510697	50.0			12336	
D 18 13C4 PFOS										
503.00 > 80.00	3.723	3.695	0.028	1.104	1911190	49.9		104	6256	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.723	3.703	0.020	1.000	1751777	46.3	Target=4.33	99.8	8252	
499.00 > 99.00	3.723	3.703	0.020	1.000	365568		4.79(2.16-6.49)		1764	
D 19 13C5 PFNA										
468.00 > 423.00	3.745	3.715	0.030	1.110	3954944	52.8		106	29371	
20 Perfluorononanoic acid										
463.00 > 419.00	3.745	3.723	0.022	1.000	3764402	52.5	Target=8.15	105	1469	
463.00 > 169.00	3.745	3.723	0.022	1.000	463417		8.12(4.08-12.23)		3280	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.898	3.875	0.023	1.047	3291904	37.9		81.3	10232	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.022	4.010	0.012	1.080	1647146	48.8	Target=2.42	102	8067	
549.00 > 99.00	4.022	4.010	0.012	1.080	680659		2.42(1.21-3.63)		2295	
D 23 13C2 PFDA										
515.00 > 470.00	4.059	4.036	0.023	1.203	3358078	56.1		112	18085	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.072	4.036	0.036	1.207	514290	58.3		122	1349	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.059	4.047	0.012	1.000	3180993	48.9	Target=9.58	97.8	1279	
513.00 > 169.00	4.059	4.047	0.012	1.000	358251		8.88(4.79-14.37)		2165	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.072	4.047	0.025	1.000	488792	34.1		71.1	5821	
D 21 13C8 FOSA										
506.00 > 78.00	4.084	4.061	0.023	1.211	3994647	58.1		116	12848	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.084	4.072	0.012	1.000	3498403	48.0		95.9	8886	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.198	4.178	0.020	1.245	362240	47.4		94.7	1137	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.198	4.187	0.011	1.000	277777	50.7		101	243	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.295	4.283	0.012	1.154	1500690	56.6	Target=2.64	118	8969	
599.00 > 99.00	4.295	4.283	0.012	1.154	516210		2.91(1.32-3.96)		3854	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.280	2941241	53.9		108	9662	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.307	0.012	1.000	2270388	45.0	Target=7.95	90.0	1116	
563.00 > 169.00	4.319	4.307	0.012	1.000	334394		6.79(3.98-11.93)		2243	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.331	4.308	0.023	1.284	390418	45.8		91.6	1712	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.331	4.319	0.012	1.000	242270	48.5		97.0	2181	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.415	4.403	0.012	1.186	4539684	34.3		72.8	12466	
D 36 13C2 PFDaA										
615.00 > 570.00	4.549	4.537	0.012	1.349	3276208	55.8		112	11424	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.549	4.549	0.0	1.000	3365064	50.2	Target=7.49	100	274	
613.00 > 169.00	4.549	4.549	0.0	1.000	501396		6.71(3.75-11.24)		3897	
74 1H,1H,2H,2H-perfluorododecanesulfo										
627.00 > 607.00	4.574	4.562	0.012	1.123	285565	31.4		65.2	2947	
75 Perfluorododecanesulfonic acid (PF										
699.00 > 80.00	4.729	4.718	0.011	1.270	612390	48.2	Target=0.50	99.6	1875	
699.00 > 99.00	4.729	4.718	0.011	1.270	1222019		0.50(0.25-0.76)		4264	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.769	4.760	0.009	1.048	2778258	46.2	Target=5.71	92.4	195	
663.00 > 169.00	4.769	4.760	0.009	1.048	613354		4.53(2.85-8.56)		4964	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.474	3370248	41.7		83.4	8810	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.972	4.972	0.0	1.000	537945	60.0	Target=1.02	120	4462	
713.00 > 219.00	4.972	4.972	0.0	1.000	554164		0.97(0.51-1.54)		4203	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.390	5.390	0.0	1.000	3320225	51.6	Target=5.23	103	794	
813.00 > 169.00	5.390	5.390	0.0	1.000	728489		4.56(2.62-7.85)		5234	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.390	5.390	0.0	1.598	3380664	47.0		94.0	6483	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.820	5.832	-0.012	1.080	2310509	45.5	Target=5.61	90.9	1366	
913.00 > 169.00	5.820	5.832	-0.012	1.080	538618		4.29(2.80-8.41)		3753	

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

LCPFAS32-L5\_00001

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E024.d

Injection Date: 02-Aug-2019 06:54:22

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 17

Worklist Smp#: 24

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

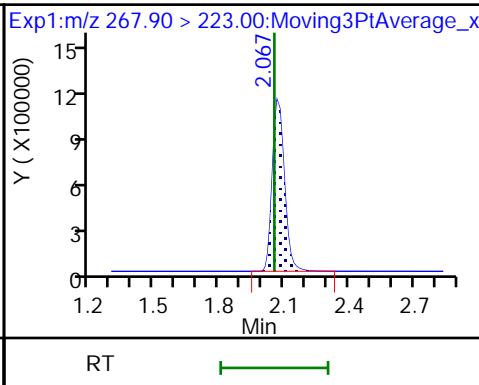
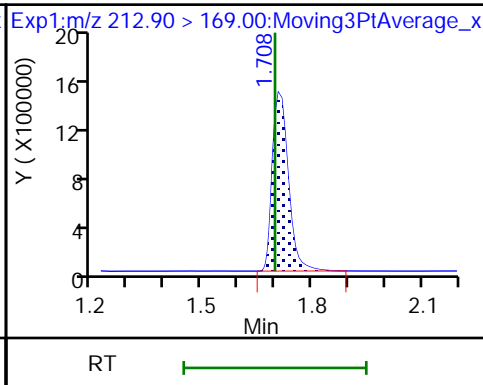
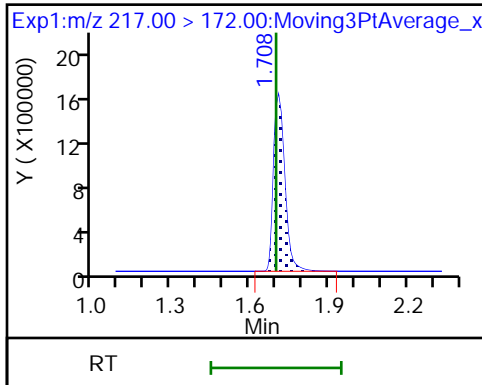
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

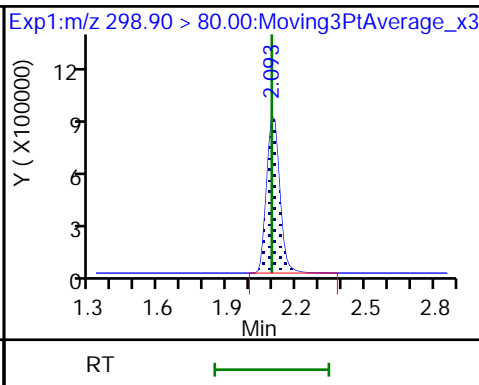
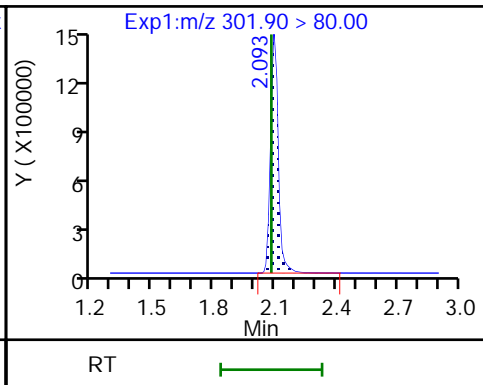
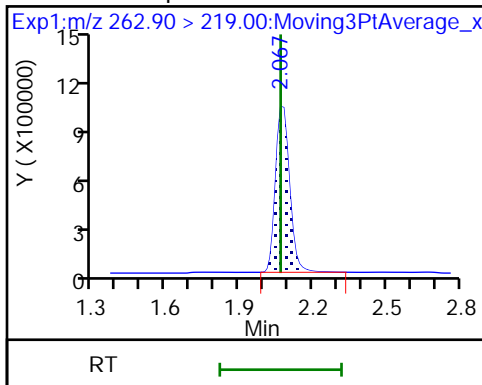
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

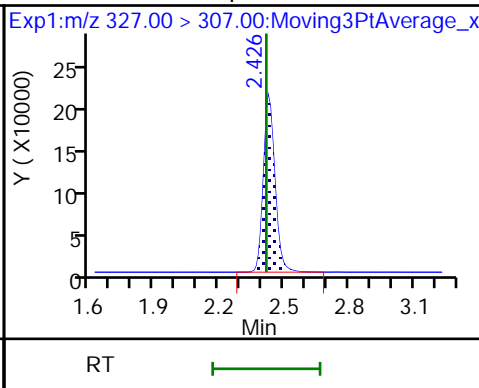
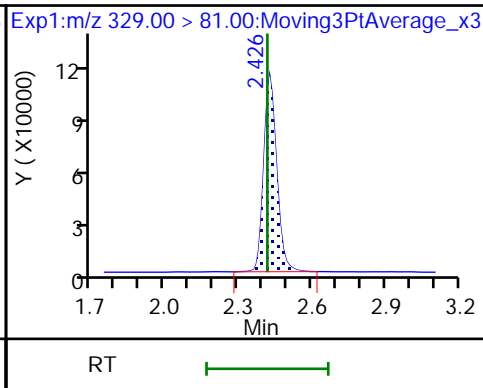
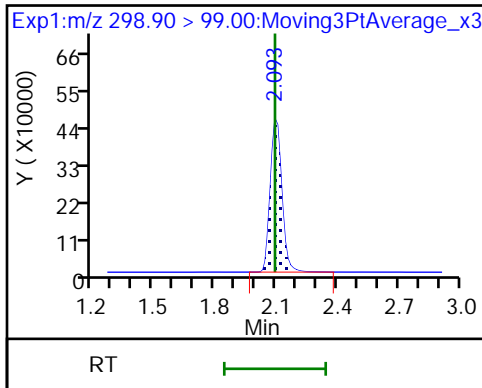
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

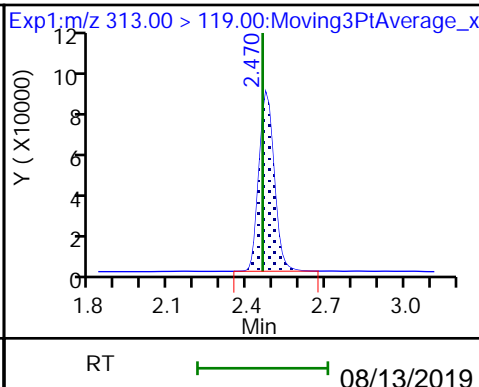
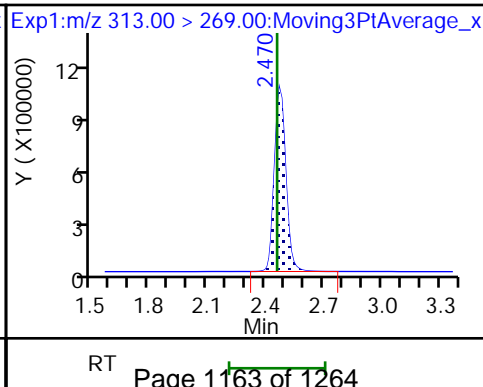
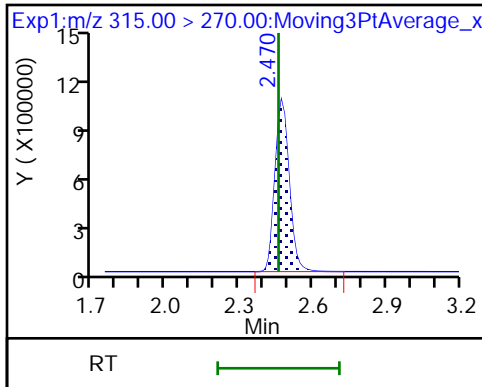
61 1H,1H,2H,2H-perfluorohexanesulfoni

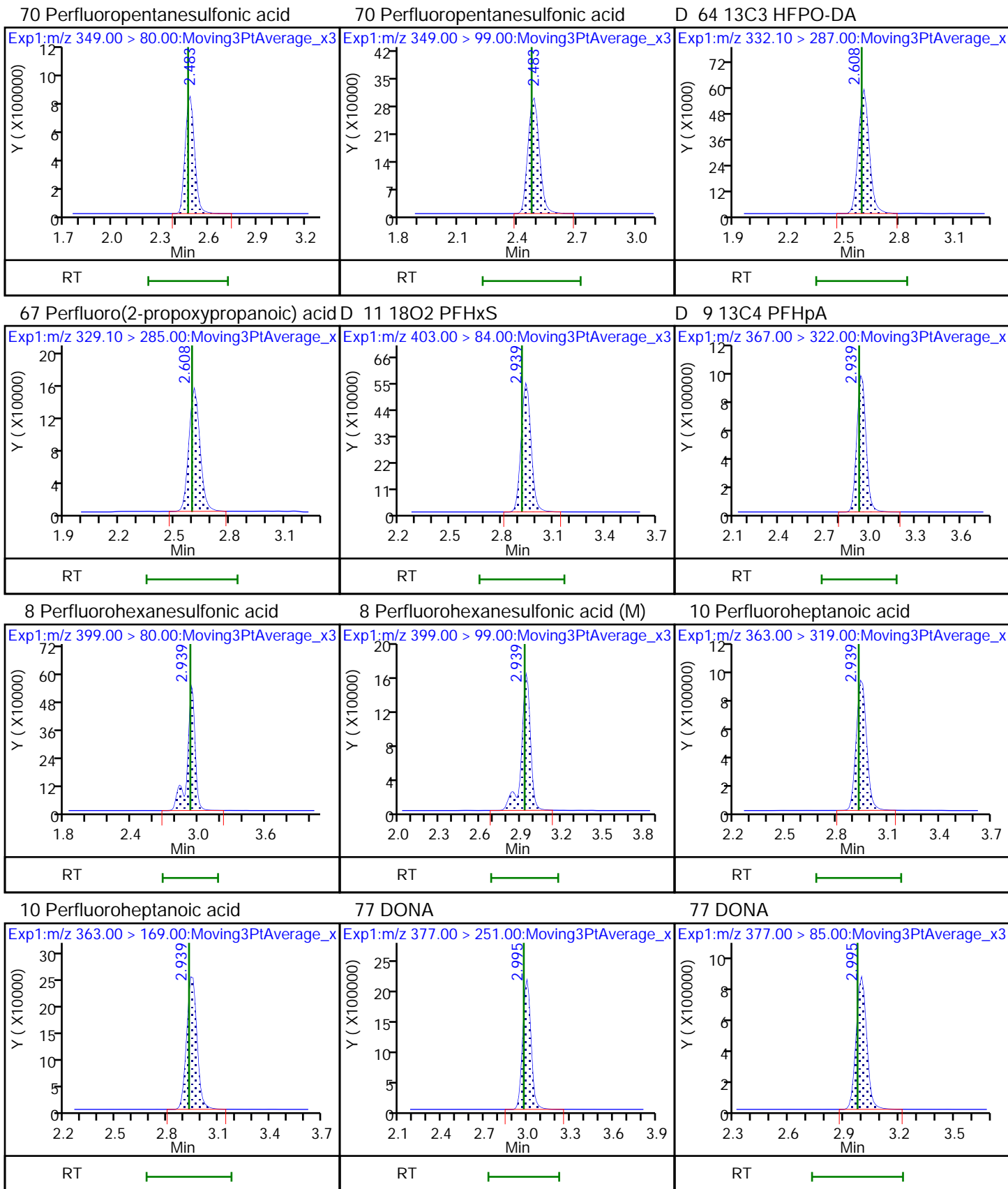


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

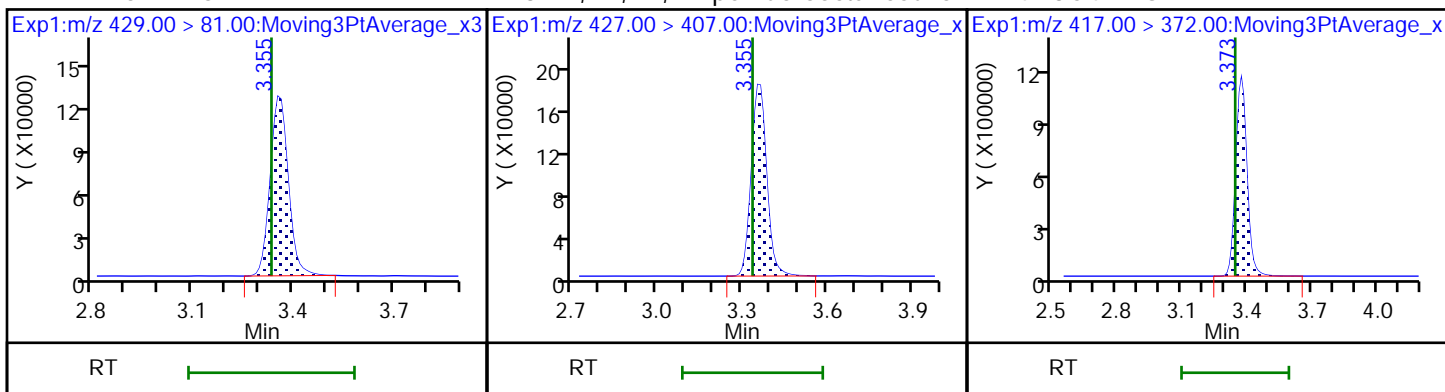
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

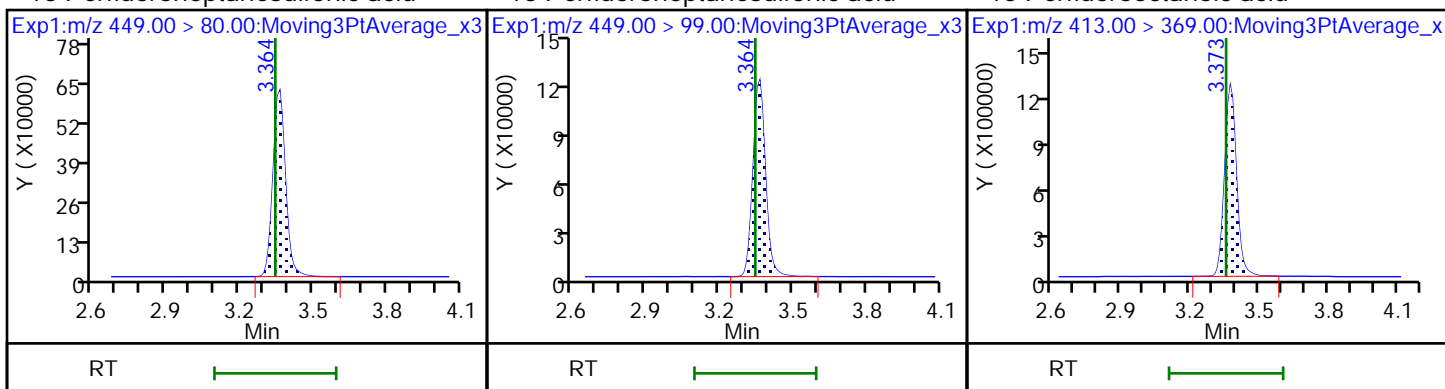
13 1H,1H,2H,2H-perfluorooctanesulfonD 14 13C4 PFOA



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

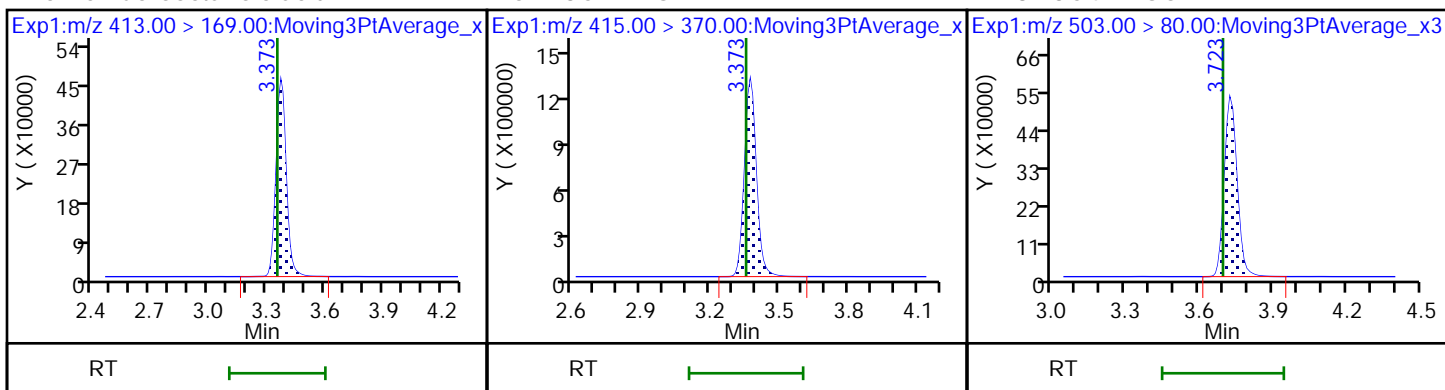
15 Perfluorooctanoic acid



15 Perfluorooctanoic acid

\* 62 13C2 PFOA

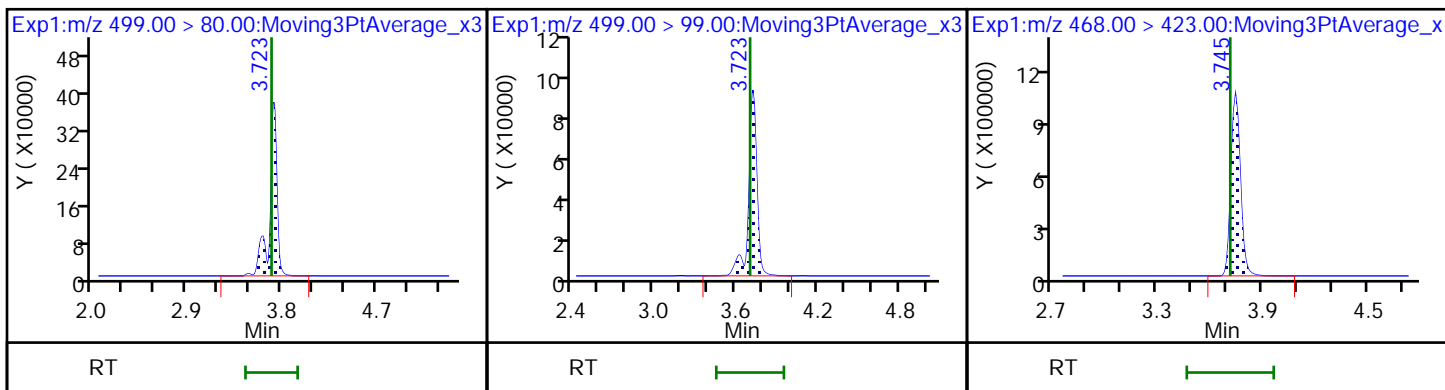
D 18 13C4 PFOS

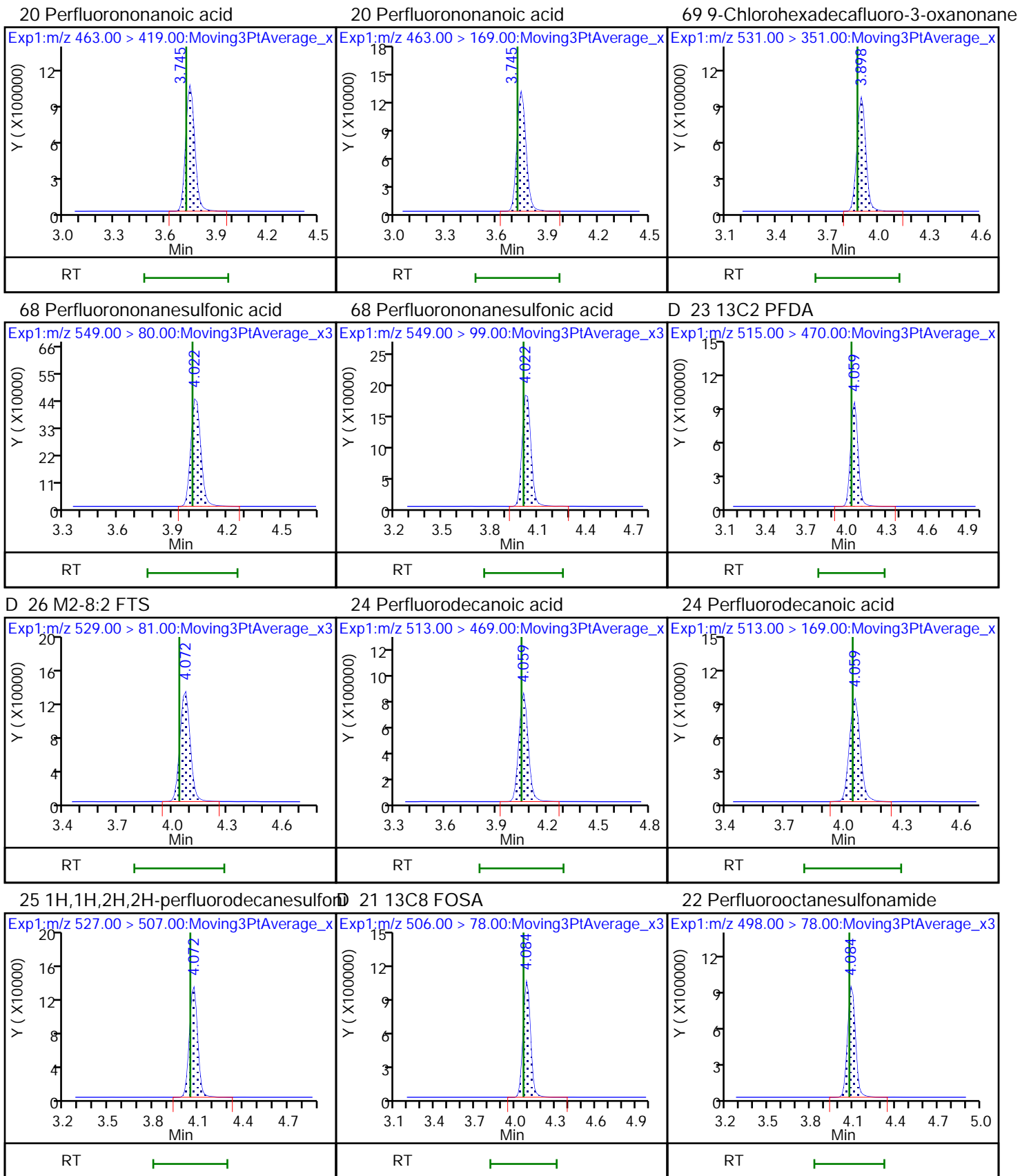


17 Perfluorooctanesulfonic acid

17 Perfluorooctanesulfonic acid

D 19 13C5 PFNA

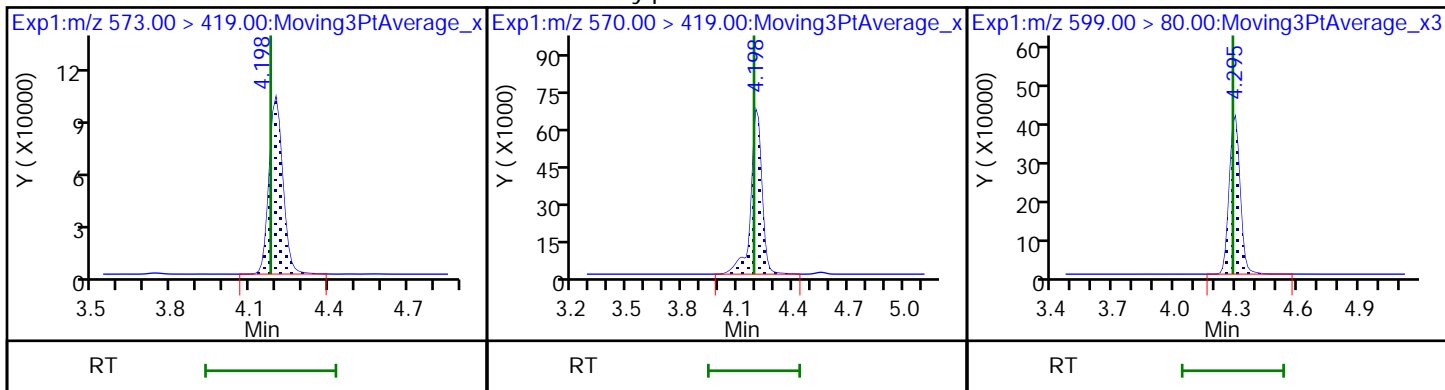






D 27 d3-NMeFOSAA

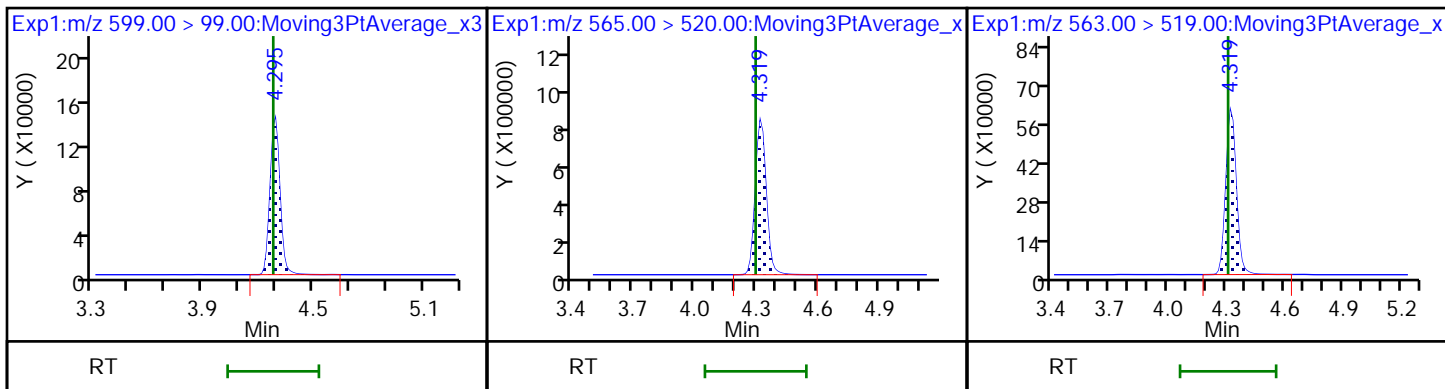
28 N-methylperfluorooctanesulfonamido 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

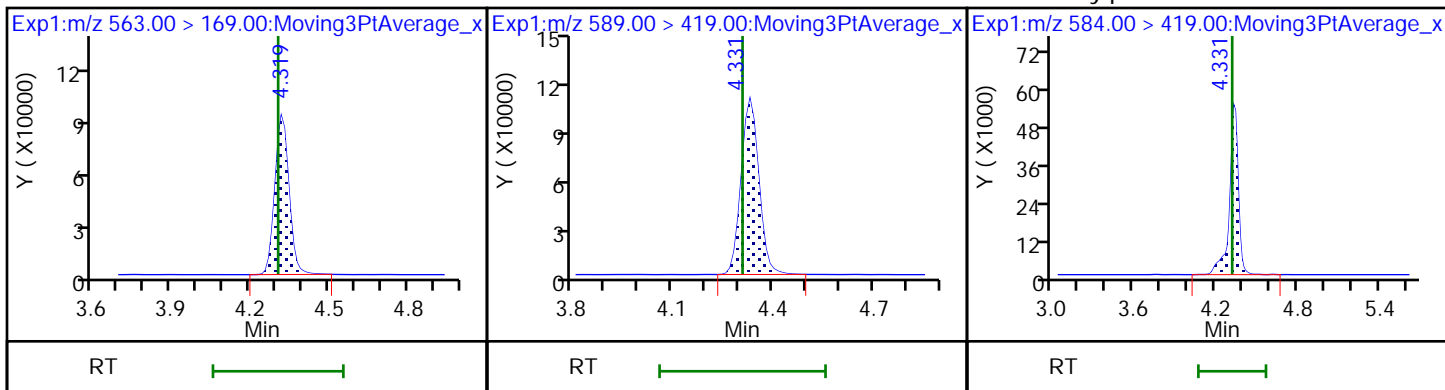
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

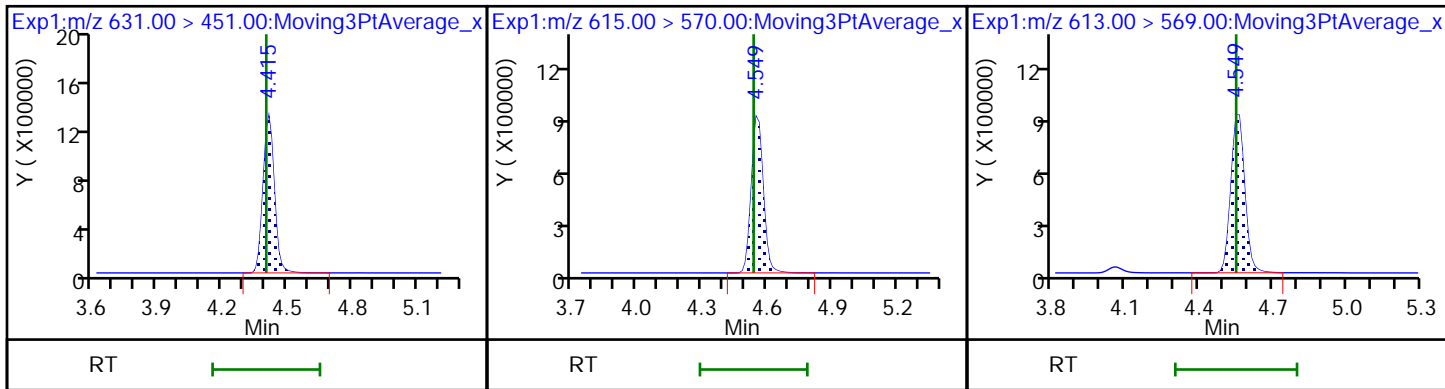
33 N-ethylperfluorooctanesulfonamido



66 11-Chloroeicosafuoro-3-oxaundeca

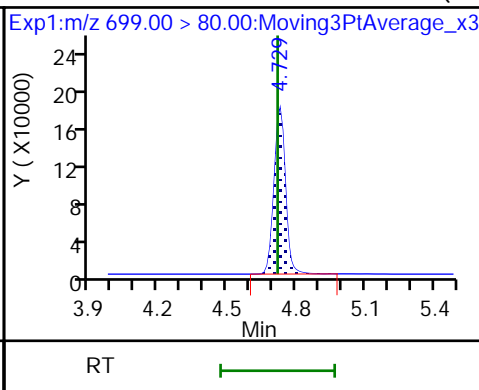
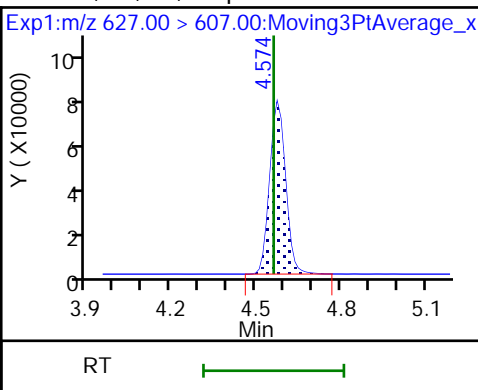
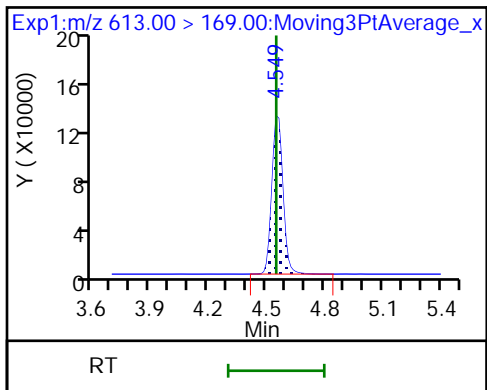
D 36 13C2 PFDoA

37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

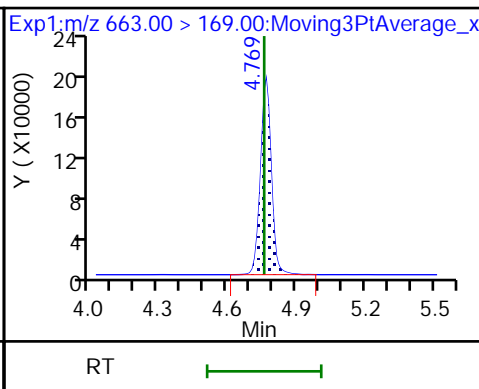
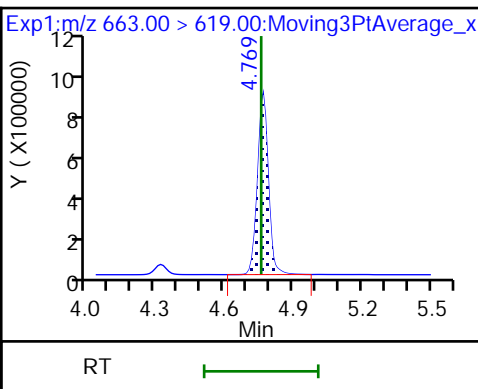
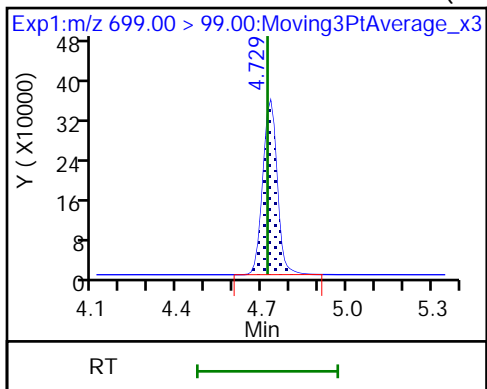
74 1H,1H,2H,2H-perfluorododecanesulfo 75 Perfluorododecanesulfonic acid (PF



75 Perfluorododecanesulfonic acid (PF

41 Perfluorotridecanoic acid

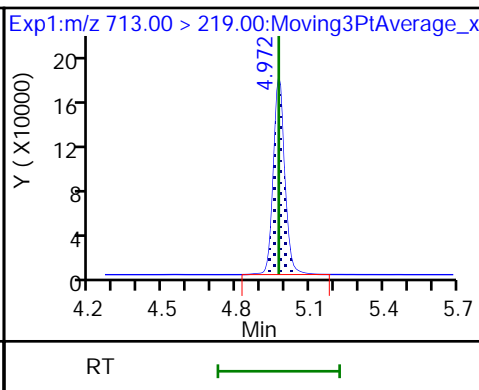
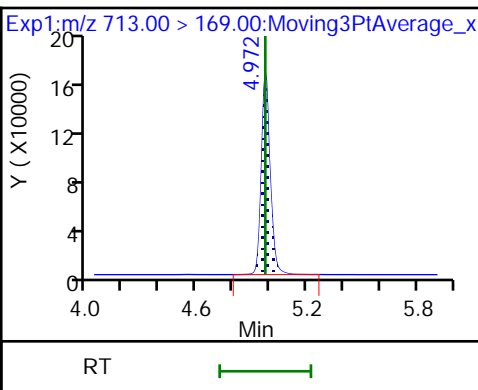
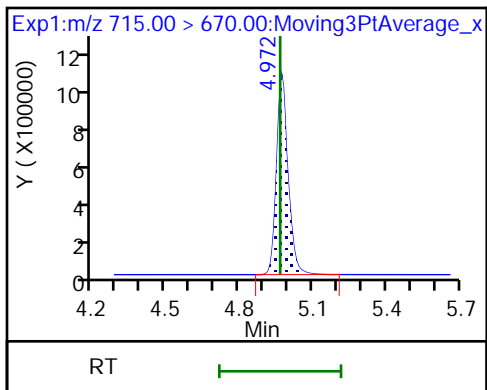
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

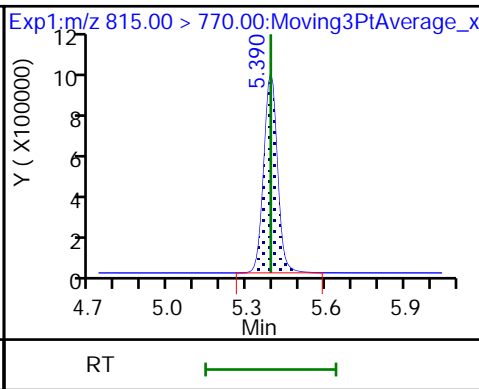
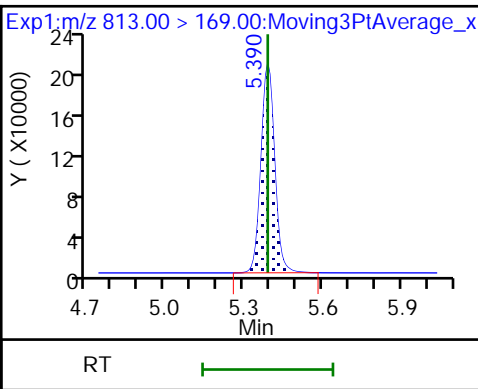
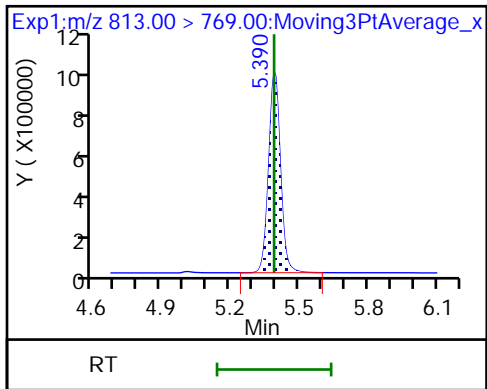
42 Perfluorotetradecanoic acid



45 Perfluorohexadecanoic acid

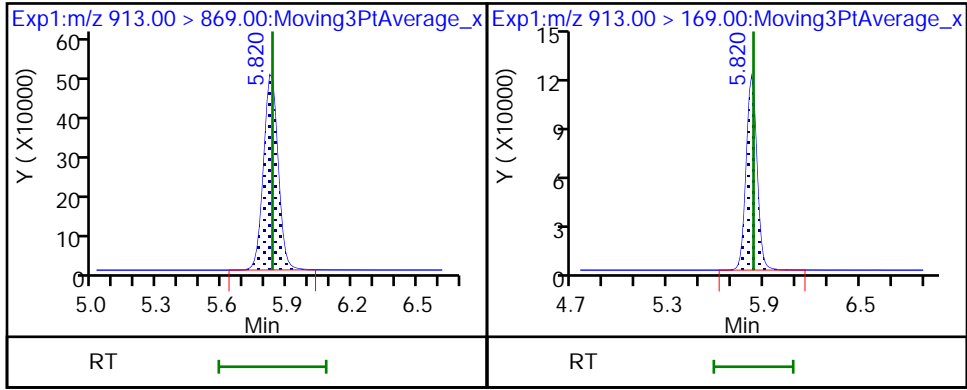
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

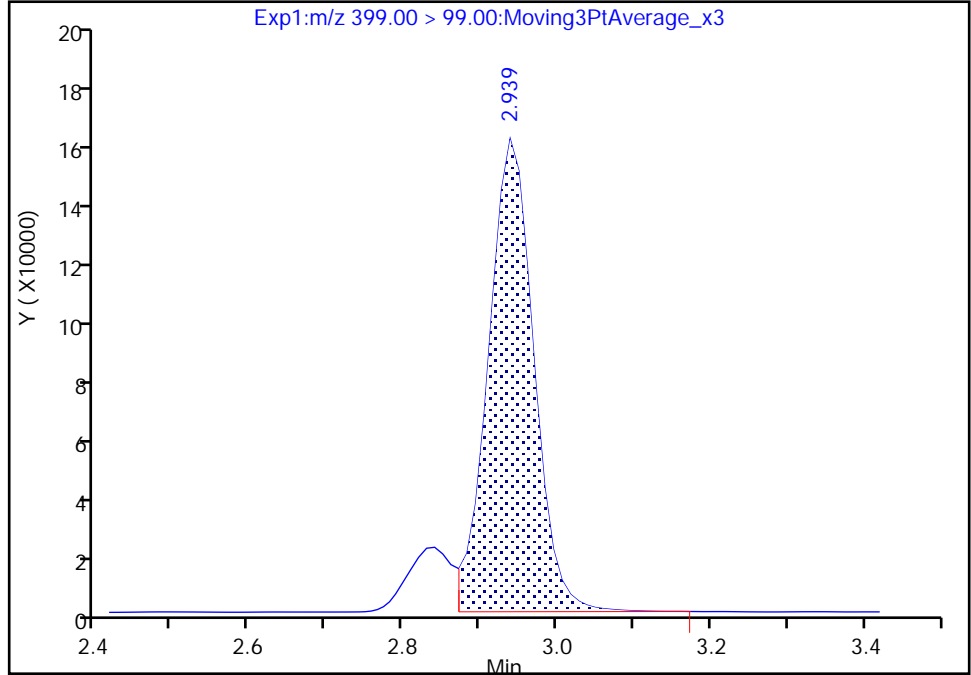
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E024.d  
Injection Date: 02-Aug-2019 06:54:22 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 24  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

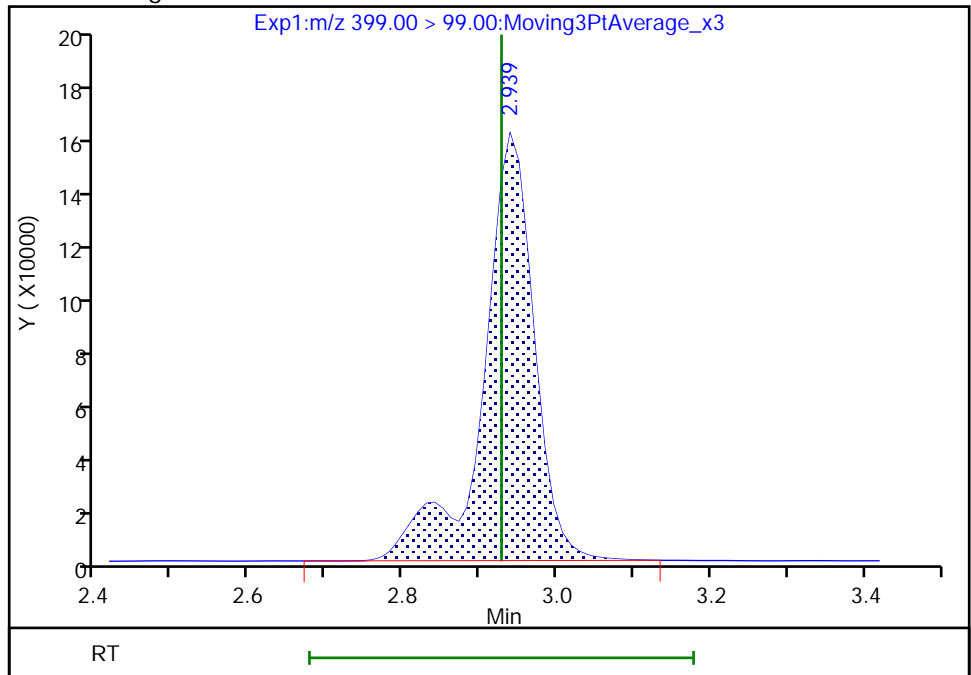
RT: 2.94  
Area: 652267  
Amount: 43.647819  
Amount Units: ng/ml

Processing Integration Results



RT: 2.94  
Area: 737630  
Amount: 43.647819  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 05-Aug-2019 18:49:42  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-145382/1-A  
 Matrix: Water Lab File ID: SC080119E002.d  
 Analysis Method: 537 (modified) Date Collected: \_\_\_\_\_  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 250 (mL) Date Analyzed: 08/02/2019 03:57  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.0	1.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	0.63
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	0.76
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.91
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	0.63
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.77
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.53
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.59
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.60
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.92
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.80
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.95
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.90
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.61
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		10	10
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		20	1.7
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		20	1.5
27619-97-2	6:2 FTS	ND		20	4.6
39108-34-4	8:2 FTS	ND		20	2.9

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-145382/1-A  
 Matrix: Water Lab File ID: SC080119E002.d  
 Analysis Method: 537 (modified) Date Collected: \_\_\_\_\_  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 250 (mL) Date Analyzed: 08/02/2019 03:57  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	73		25-150
STL00992	13C4 PFBA	94		25-150
STL01893	13C5 PFPeA	92		25-150
STL00993	13C2 PFHxA	95		50-150
STL01892	13C4 PFHpA	93		50-150
STL00990	13C4 PFOA	89		50-150
STL00995	13C5 PFNA	94		50-150
STL00996	13C2 PFDA	102		50-150
STL00997	13C2 PFUnA	94		50-150
STL00998	13C2 PFDoA	96		50-150
STL02116	13C2 PFTeDA	65		50-150
STL02337	13C3 PFBS	90		50-150
STL00994	18O2 PFHxS	89		50-150
STL00991	13C4 PFOS	90		50-150
STL02118	d3-NMeFOSAA	82		50-150
STL02117	d5-NEtFOSAA	79		50-150
STL02279	M2-6:2 FTS	101		25-150
STL02280	M2-8:2 FTS	111		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
 Lims ID: MB 200-145382/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 02-Aug-2019 03:57:22 ALS Bottle#: 49 Worklist Smp#: 2  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: MB 200-145382/1-A  
 Misc. Info.: 200-0037095-002 Plate: 1 Rack: 4  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 16:28:48  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.507	3543299	46.9	93.9	13264	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.708	1.699	0.009	1.005	20347	0.3115		2.2		M
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.616	3249957	45.8	91.7	7200	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	12109	0.1925		0.6	
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.624	2905089	41.7	89.7	607851	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	8703	0.1370	Target=1.90	26.9	
298.90 > 99.00	2.093	2.093	0.0	1.000	4878		1.78(0.95-2.85)	5.0		
D 60 M2-4:2 FTS	329.00 > 81.00	2.417	2.417	0.0	0.721	313909	46.6	99.8	406	
61 1H,1H,2H,2H-perfluorohexanesulfoni										M
327.00 > 307.00	2.426	2.417	0.009	1.004	1089	0.0678		11.7		M
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.733	3350742	47.6	95.1	7394	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.005	9460	0.1371	Target=13.23	2.8	RM
313.00 > 119.00	2.459	2.459	0.0	1.000	1722		5.49(6.61-19.84)	2.6		RM
D 64 13C3 HFPO-DA	332.10 > 287.00	2.596	2.596	0.0	0.774	264887	58.6	117	1675	
67 Perfluoro(2-propoxypropanoic) acid	329.10 > 285.00	2.621	2.596	0.025	1.010	2072	0.1539		0.6	
D 11 18O2 PFHxS	403.00 > 84.00	2.928	2.916	0.012	0.873	1722877	42.2	89.3	6624	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 9 13C4 PFHpA										
367.00 > 322.00	2.928	2.928	0.0	0.873	3202483	46.4		92.8	7064	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.928	2.928	0.0	1.000	8951	0.1865	Target=3.37	14.0		M
399.00 > 99.00	2.928	2.928	0.0	1.000	2018		4.44(1.69-5.06)	3.3		M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	2.928	2.928	0.0	1.000	2950	0.0492	Target=3.76	1.0		M
363.00 > 169.00	2.928	2.928	0.0	1.000	1050		2.81(1.88-5.65)	4.4		M
77 DONA										
377.00 > 251.00	2.973	2.973	0.0	0.802	7630	0.0527	Target=2.72	4.8		
377.00 > 85.00	2.973	2.973	0.0	0.802	3006		2.54(1.36-4.07)	5.1		
D 12 M2-6:2 FTS										
429.00 > 81.00	3.344	3.335	0.009	0.997	408230	48.1		101	1085	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.344	3.336	0.008	1.000	13296	0.9021			24.2	
D 14 13C4 PFOA										
417.00 > 372.00	3.354	3.344	0.010	1.000	3229535	44.3		88.6	7528	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.344	3.345	-0.001	0.903	1337	0.0364	Target=4.80	8.5		M
449.00 > 99.00	3.344	3.345	-0.001	0.903	206		6.49(2.40-7.20)	1.8		M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.354	3.355	-0.001	1.000	21354	0.3038	Target=2.84	2.2		M
413.00 > 169.00	3.363	3.355	0.008	1.003	6539		3.27(1.42-4.25)	16.9		M
* 62 13C2 PFOA										
415.00 > 370.00	3.354	3.355	-0.001		4005864	50.0			17499	
D 18 13C4 PFOS										
503.00 > 80.00	3.705	3.695	0.010	1.105	1456157	42.8		89.6	6592	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.705	3.703	0.002	1.000	3398	0.1178	Target=4.33	22.6		M
499.00 > 99.00	3.695	3.703	-0.008	0.997	1110		3.06(2.16-6.49)	2.8		M
D 19 13C5 PFNA										
468.00 > 423.00	3.724	3.715	0.009	1.111	3124701	47.0		94.0	14259	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.724	3.723	0.001	1.000	3684	0.0651	Target=8.15	1.3		M
463.00 > 169.00	3.724	3.723	0.001	1.000	876		4.21(4.08-12.23)	6.7		M
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.888	3.875	0.013	1.049	2583	0.0390			11.1	
D 23 13C2 PFDA										
515.00 > 470.00	4.036	4.036	0.0	1.204	2716565	51.1		102	7513	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.049	4.036	0.013	1.207	417363	53.3		111	1277	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.049	4.047	0.002	1.003	3754	0.0714	Target=9.58	1.9		RM
513.00 > 169.00	4.049	4.047	0.002	1.003	245		15.32(4.79-14.37)	2.4		M
25 1H,1H,2H,2H-perfluorodecanesulfoni										M
527.00 > 507.00	4.049	4.047	0.002	1.000	431	0.0370			7.8	M
D 21 13C8 FOSA										
506.00 > 78.00	4.074	4.061	0.013	1.215	2243194	26.7		73.5	64108	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 Perfluorooctanesulfonamide	498.00 > 78.00	4.074	4.072	0.002	1.000	5327	0.1301		39.6	
D 27 d3-NMeFOSAA	573.00 > 419.00	4.189	4.178	0.010	1.249	277513	40.9	81.7	2757	
28 N-methylperfluorooctanesulfonamido	570.00 > 419.00	4.189	4.187	0.001	1.000	609	0.1450		1.7	M
D 30 13C2 PFUnA	565.00 > 520.00	4.308	4.296	0.012	1.285	2274402	47.0	93.9	6182	
31 Perfluoroundecanoic acid	563.00 > 519.00	4.308	4.307	0.001	1.000	6786	0.1739	Target=7.95	3.5	M
	563.00 > 169.00	4.308	4.307	0.001	1.000	1287	5.27(3.98-11.93)		15.7	M
D 32 d5-NEtFOSAA	589.00 > 419.00	4.320	4.308	0.012	1.288	299037	39.5	79.0	1133	
33 N-ethylperfluorooctanesulfonamidoa	584.00 > 419.00	4.320	4.319	0.001	1.000	811	0.2119		4.3	M
66 11-Chloroeicosafuoro-3-oxaundecan	631.00 > 451.00	4.404	4.403	0.001	1.189	3733	0.0370		29.0	M
D 36 13C2 PFDoA	615.00 > 570.00	4.550	4.537	0.013	1.357	2513705	48.2	96.4	9032	
37 Perfluorododecanoic acid	613.00 > 569.00	4.550	4.549	0.001	1.000	3456	0.0672	Target=7.49	0.4	M
	613.00 > 169.00	4.550	4.549	0.001	1.000	570	6.06(3.75-11.24)		7.4	M
74 1H,1H,2H,2H-perfluorododecanesulfo	627.00 > 607.00	4.575	4.562	0.013	1.130	151	0.0205		2.3	M
75 Perfluorododecanesulfonic acid (PF	699.00 > 80.00	4.718	4.718	0.0	1.274	479	0.0495	Target=0.50	1.2	M
	699.00 > 99.00	4.730	4.718	0.012	1.277	812	0.59(0.25-0.76)		6.7	M
41 Perfluorotridecanoic acid	663.00 > 619.00	4.760	4.760	0.0	1.046	3040	0.0659	Target=5.71	0.5	M
	663.00 > 169.00	4.760	4.760	0.0	1.046	492	6.18(2.85-8.56)		5.0	M
D 43 13C2 PFTeDA	715.00 > 670.00	4.972	4.965	0.007	1.483	2348728	32.7	65.4	7610	
45 Perfluorohexadecanoic acid	813.00 > 769.00	5.390	5.390	0.0	1.000	22453	0.1178	Target=5.23	7.9	
	813.00 > 169.00	5.390	5.390	0.0	1.000	4953	4.53(2.62-7.85)		84.9	
D 44 13C2 PFHxDA	815.00 > 770.00	5.390	5.390	0.0	1.607	2329098	36.5	72.9	4991	
46 Perfluorooctadecanoic acid	913.00 > 869.00	5.832	5.832	0.0	1.082	1669	0.0477	Target=5.61	1.8	M
	913.00 > 169.00	5.820	5.832	-0.012	1.080	544	3.07(2.80-8.41)		11.6	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d

Injection Date: 02-Aug-2019 03:57:22

Instrument ID: LC812

Lims ID: MB 200-145382/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 49

Worklist Smp#: 2

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

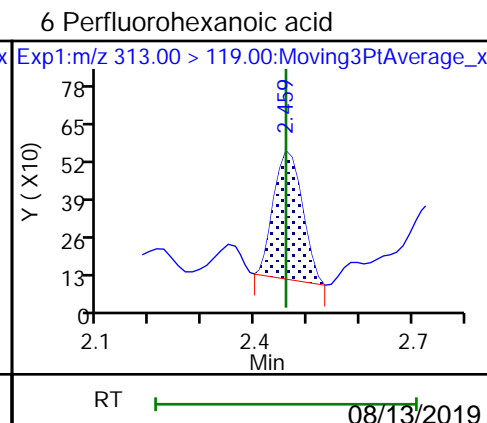
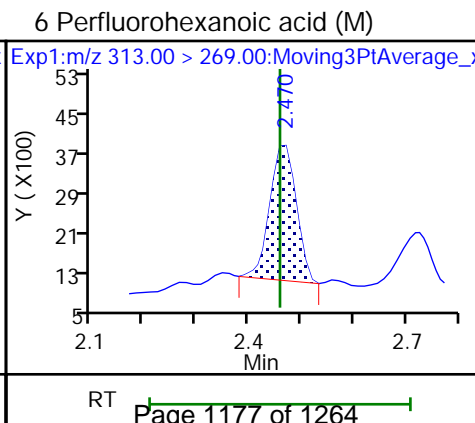
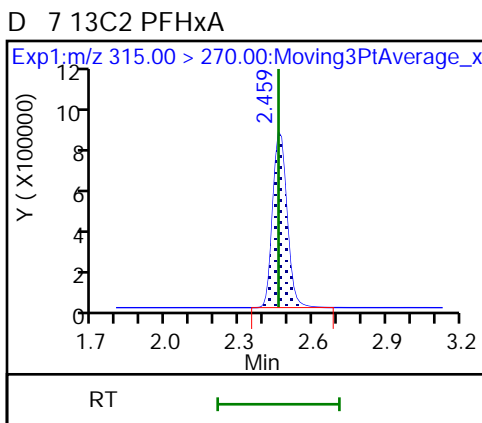
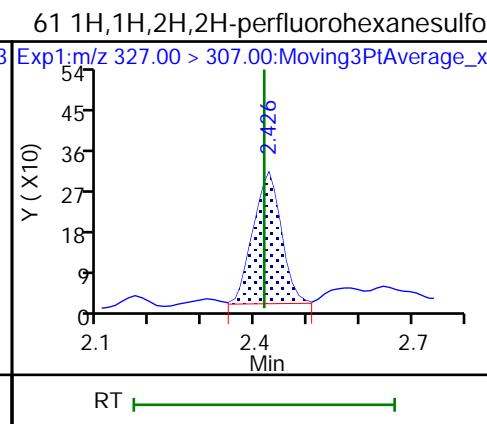
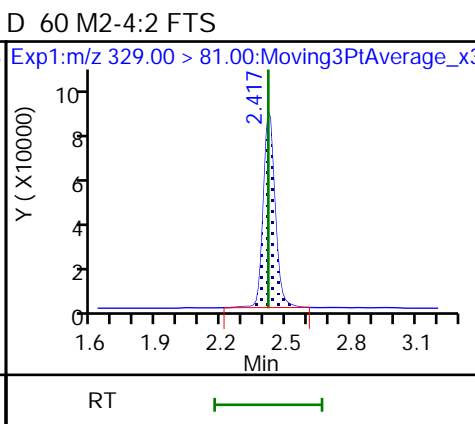
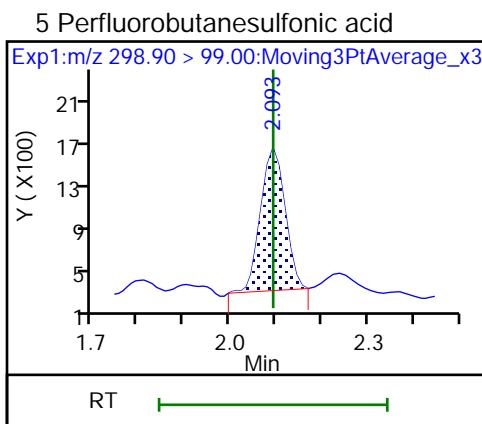
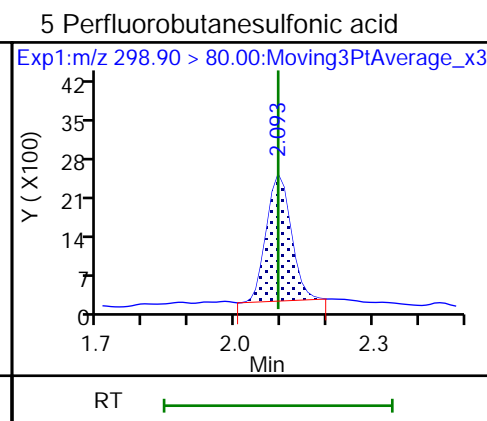
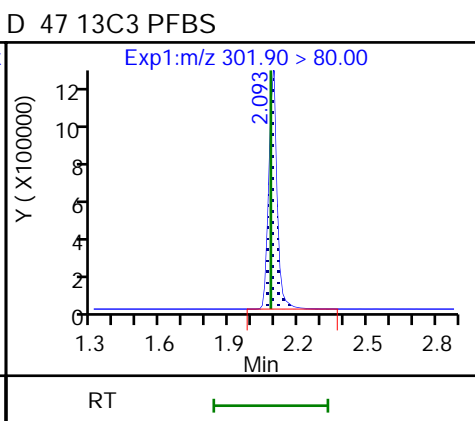
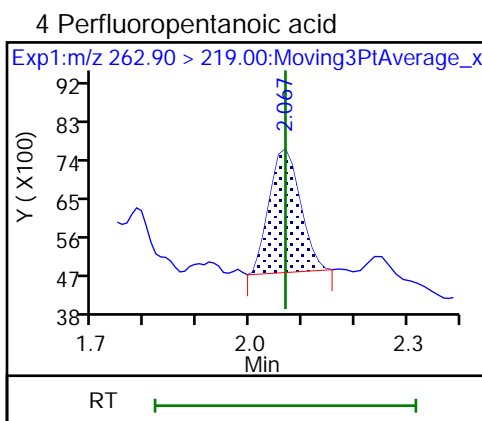
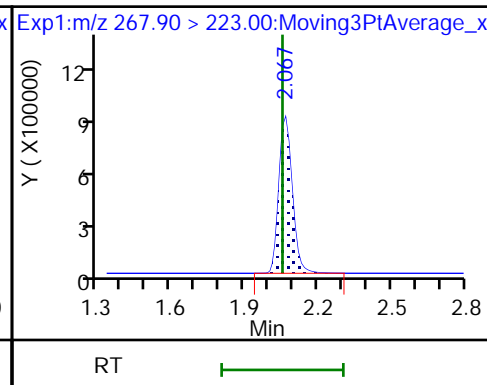
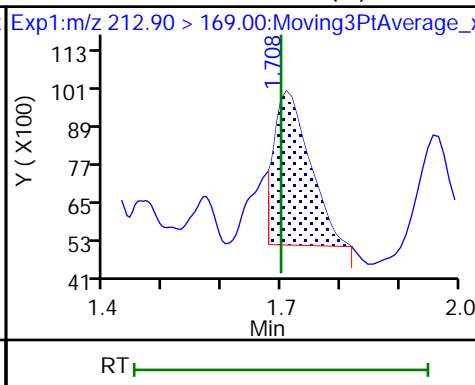
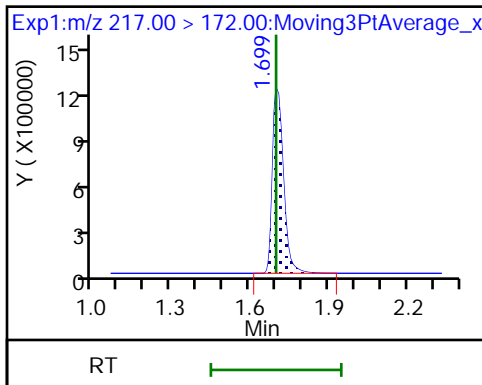
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

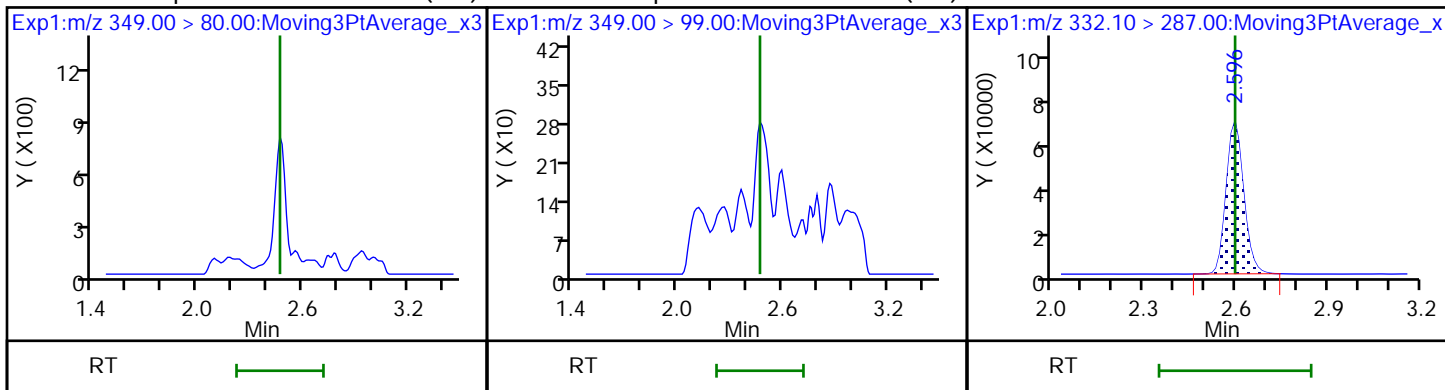
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

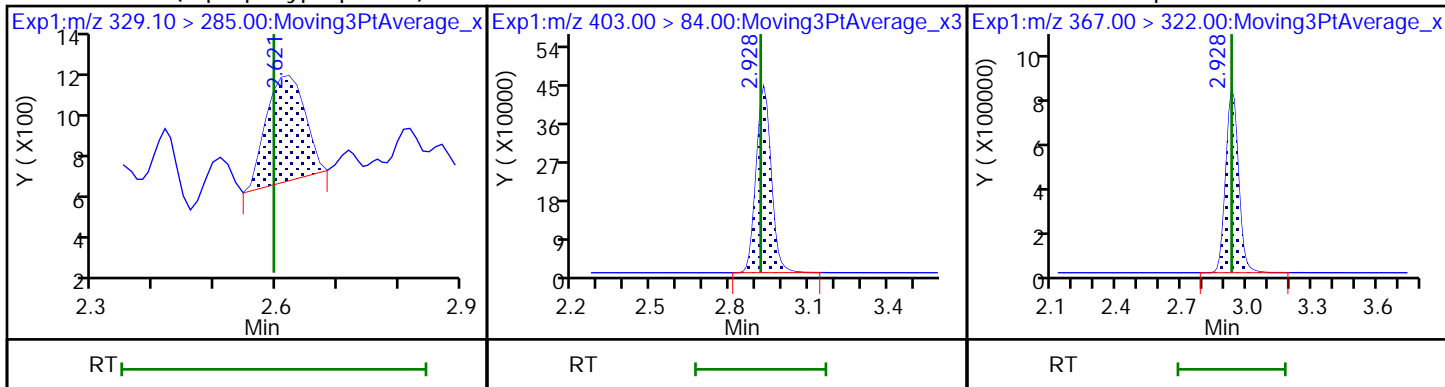


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) acid D 11 18O2 PFHxS

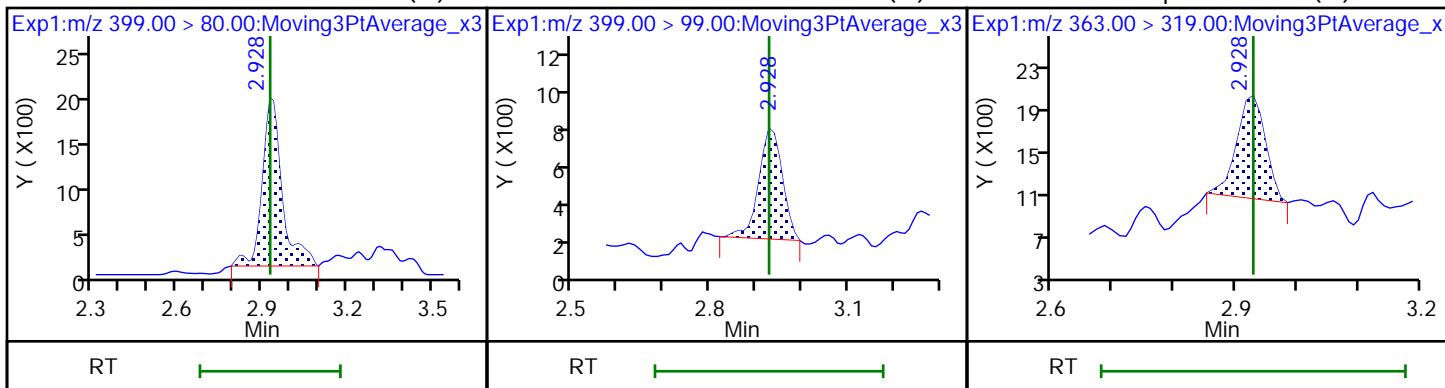
D 9 13C4 PFHpA



8 Perfluorohexanesulfonic acid (M)

8 Perfluorohexanesulfonic acid (M)

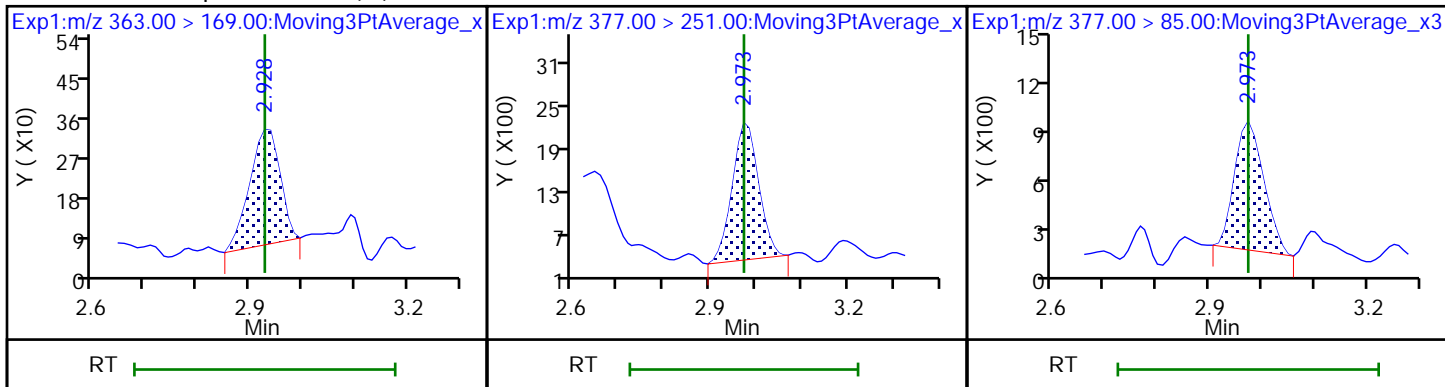
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

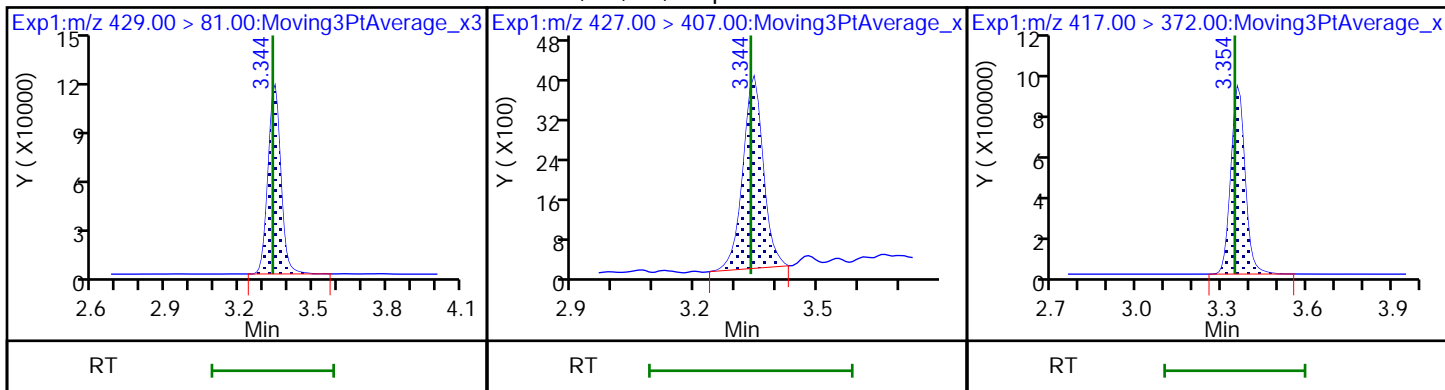
77 DONA

77 DONA



D 12 M2-6:2 FTS

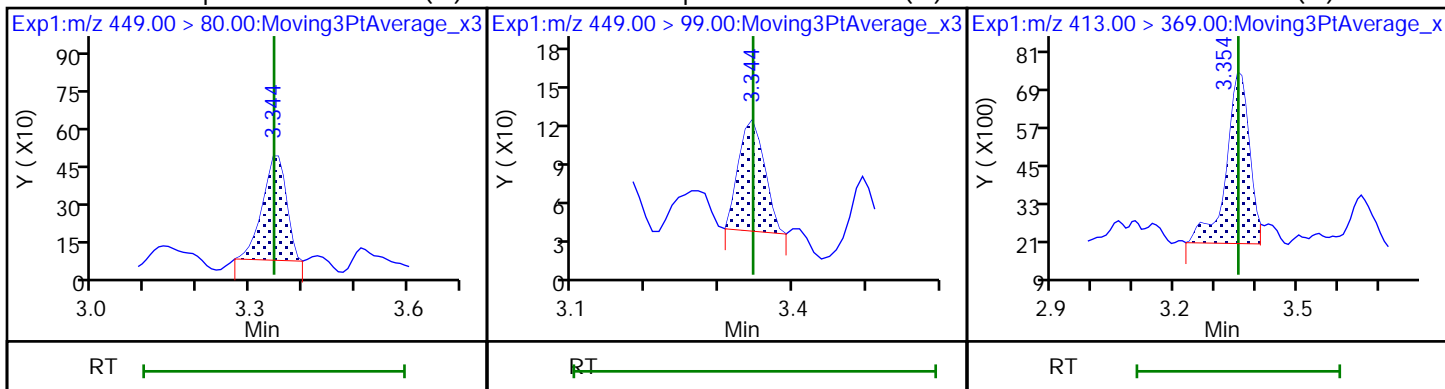
13 1H,1H,2H,2H-perfluorooctanesulfonD 14 13C4 PFOA



16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

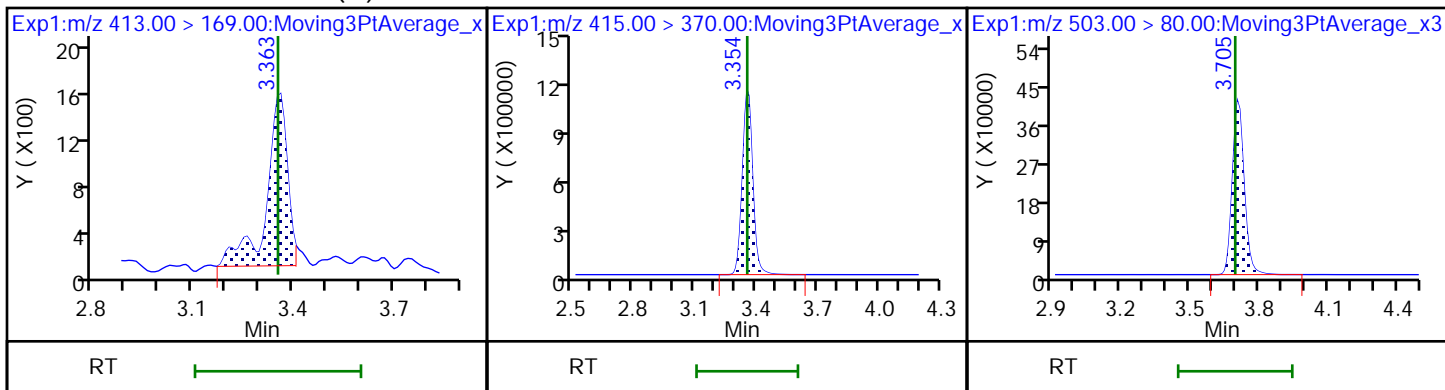
15 Perfluorooctanoic acid (M)



15 Perfluorooctanoic acid (M)

\* 62 13C2 PFOA

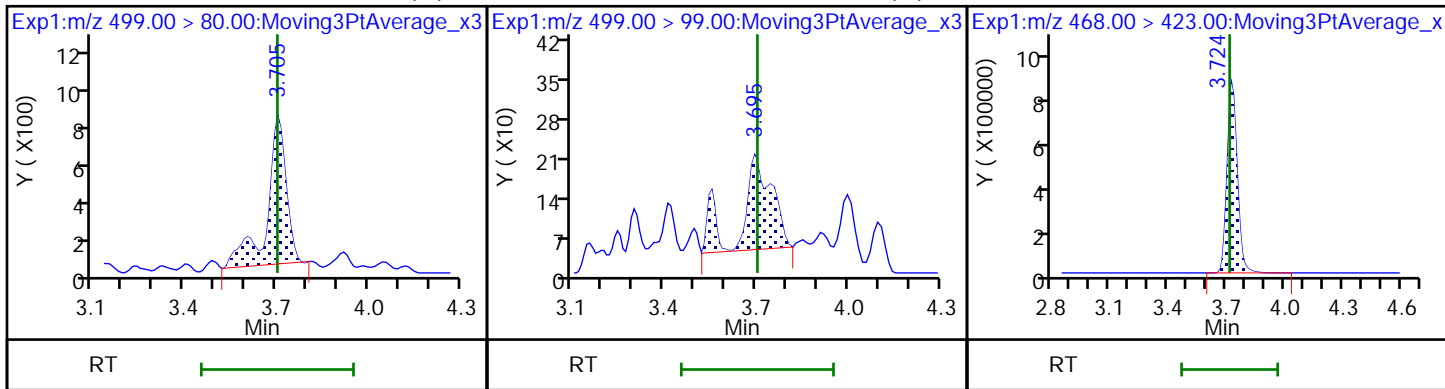
D 18 13C4 PFOS

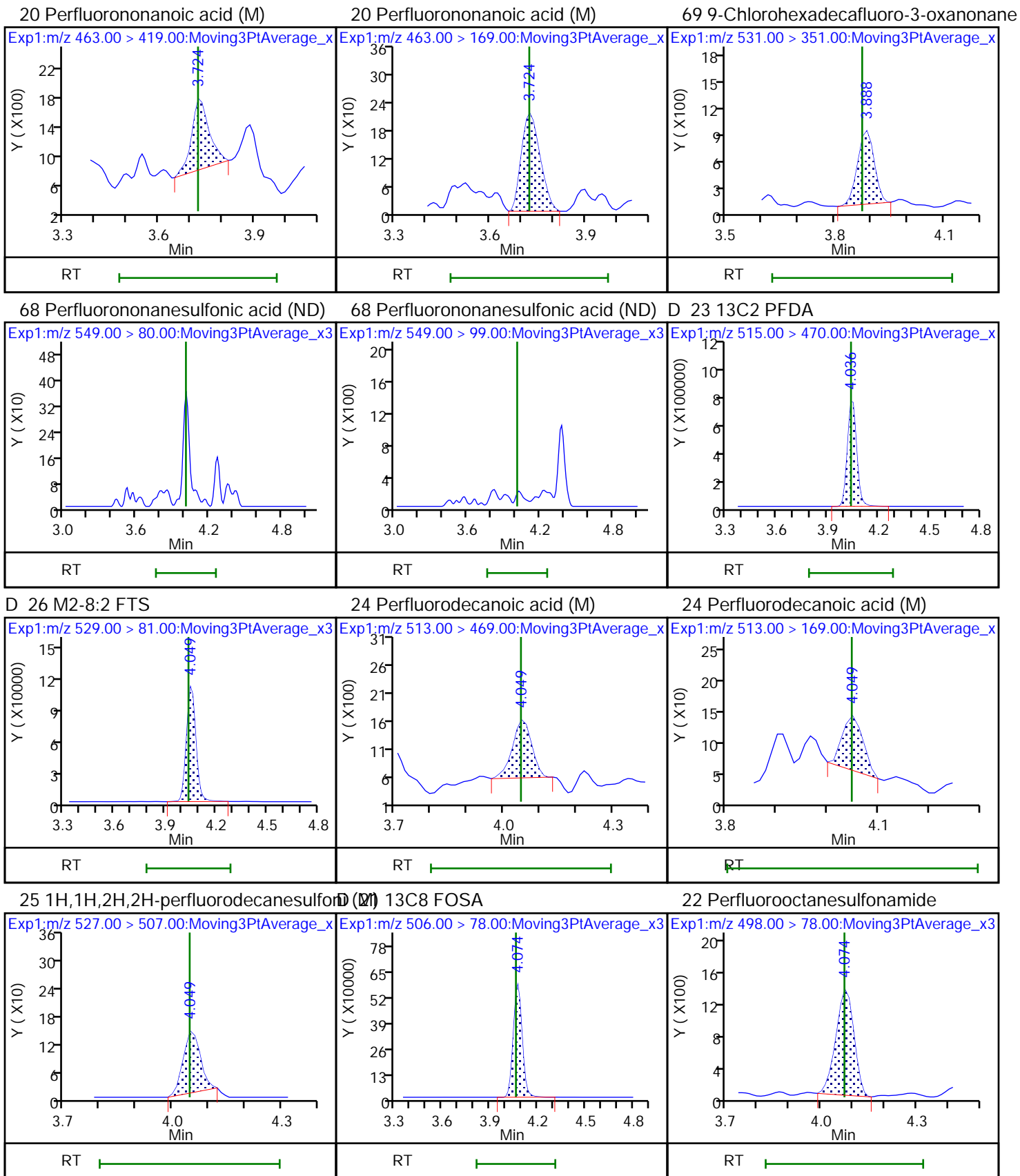


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

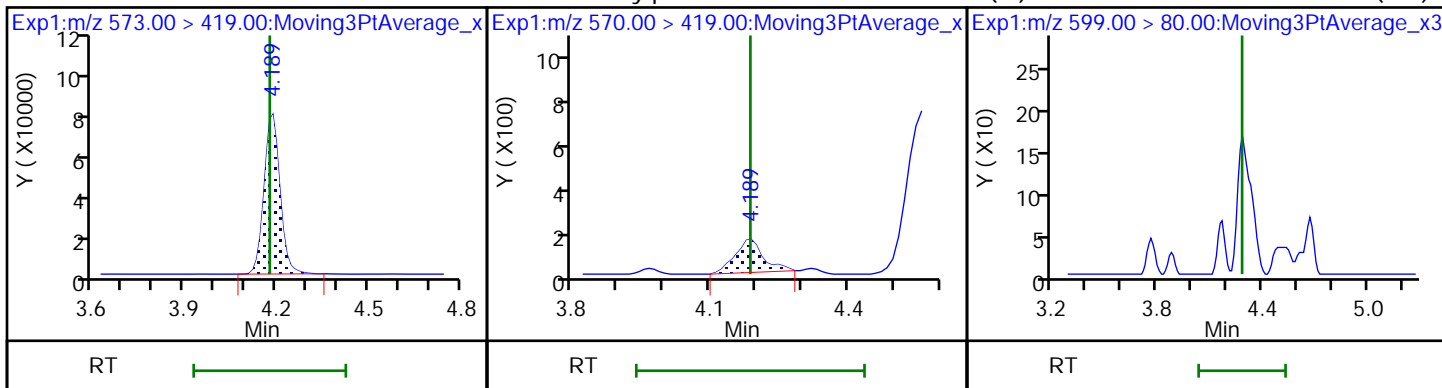
D 19 13C5 PFNA





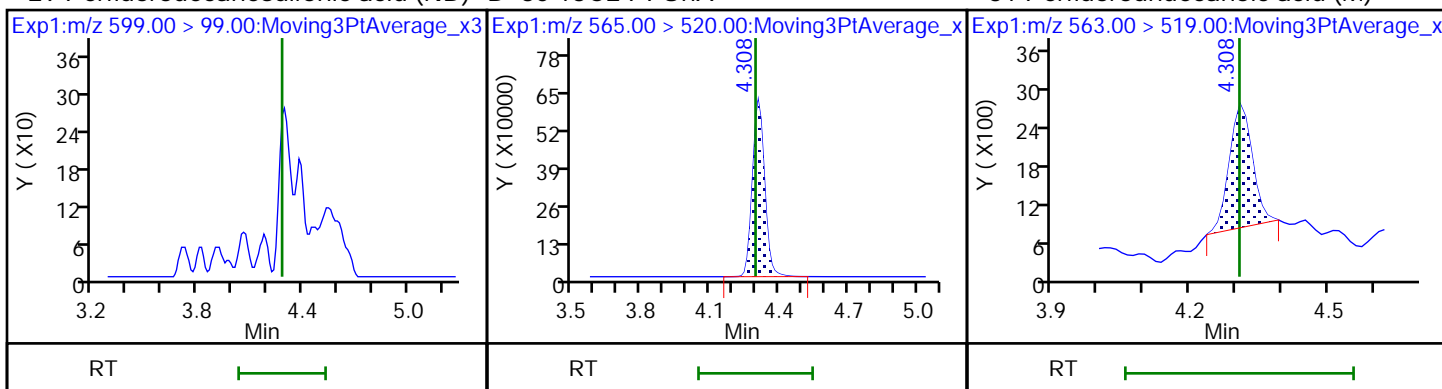
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonamido (M) Perfluorodecanesulfonic acid (ND)



29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUoA

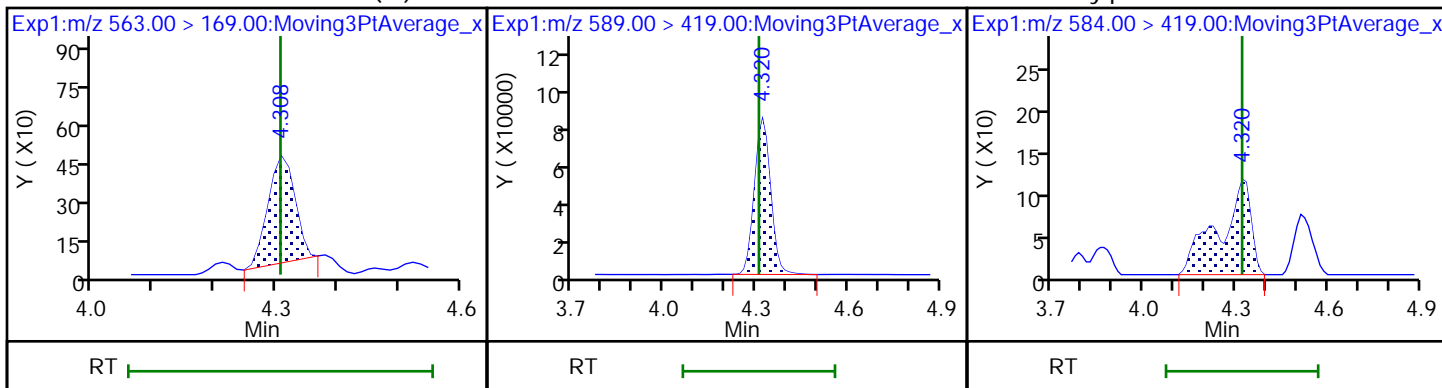
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

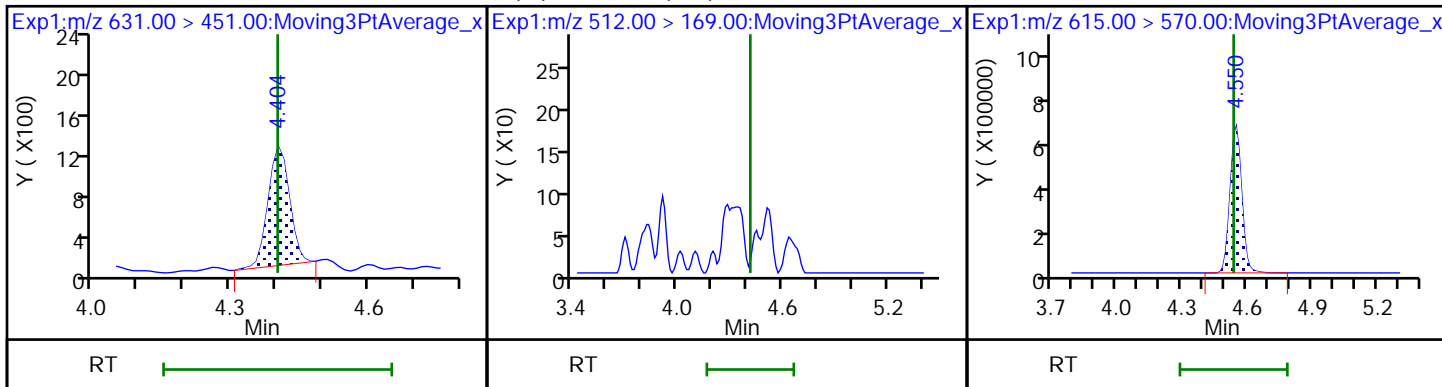
D 32 d5-NEtFOSAA

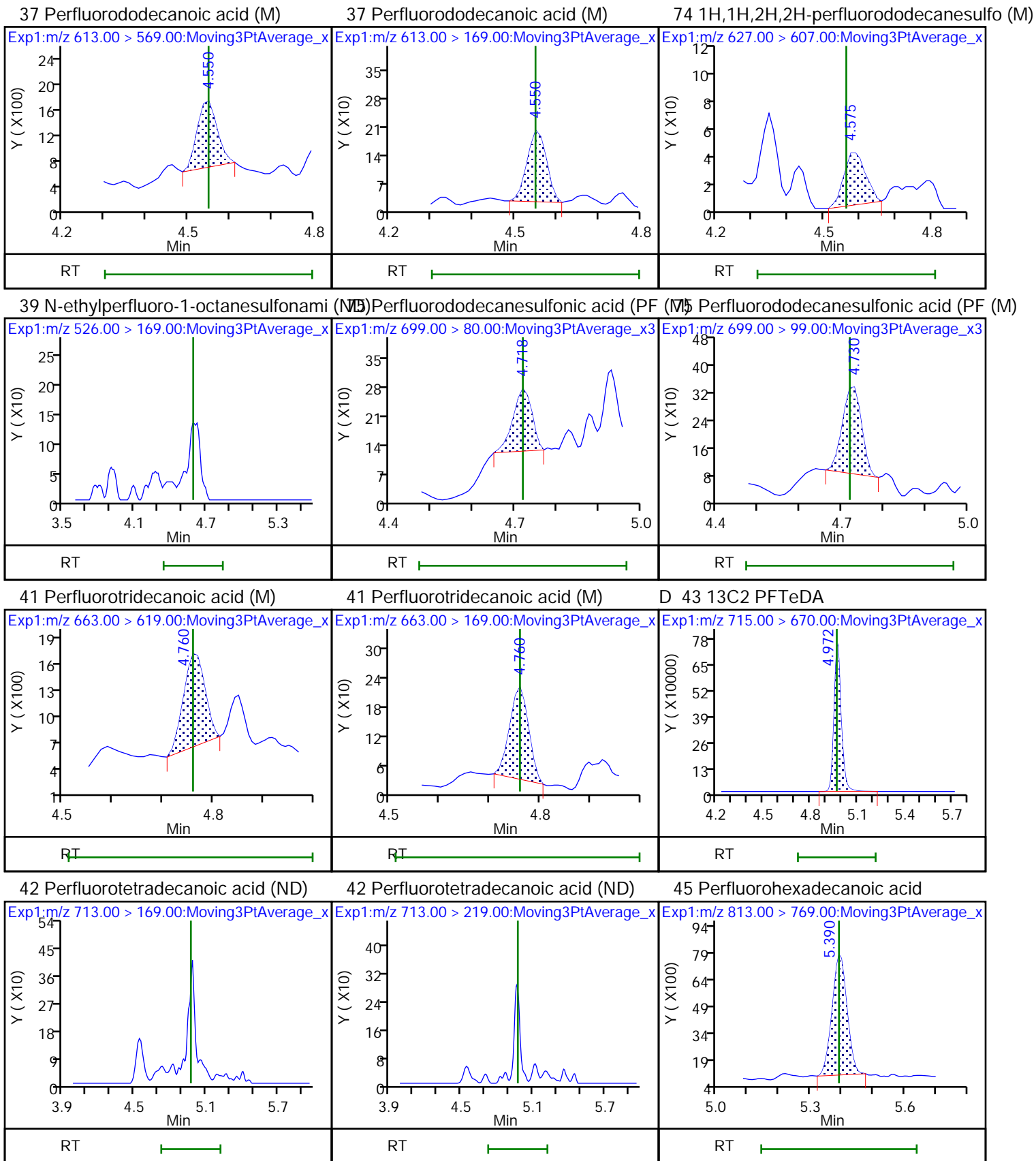
33 N-ethylperfluorooctanesulfonamidoa (M)



66 11-Chloroeicosafuoro-3-oxaundecan (M) MeFOSA (ND)

D 36 13C2 PFDoA



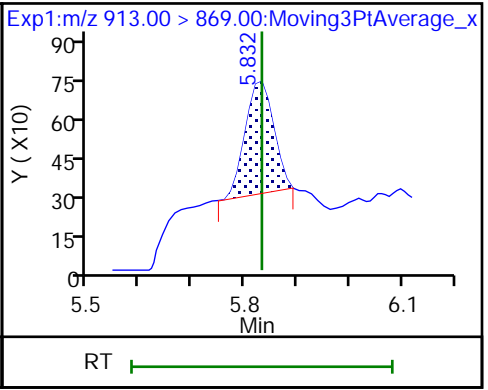
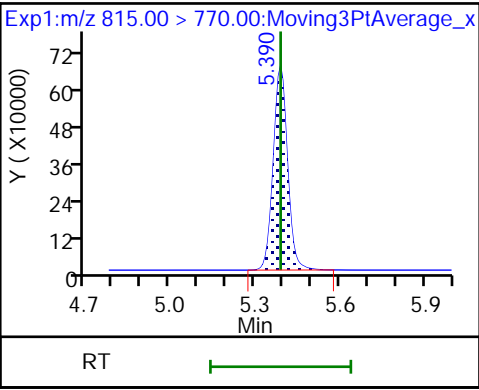
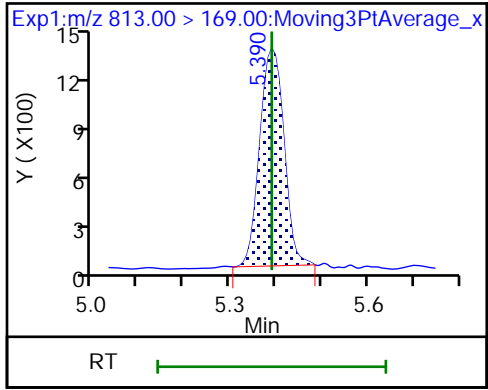




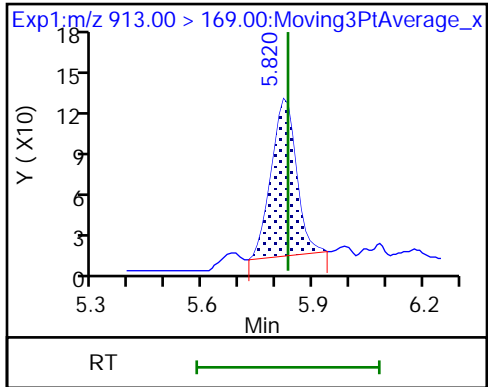
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA

46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid (M)



Euofins TestAmerica, Burlington

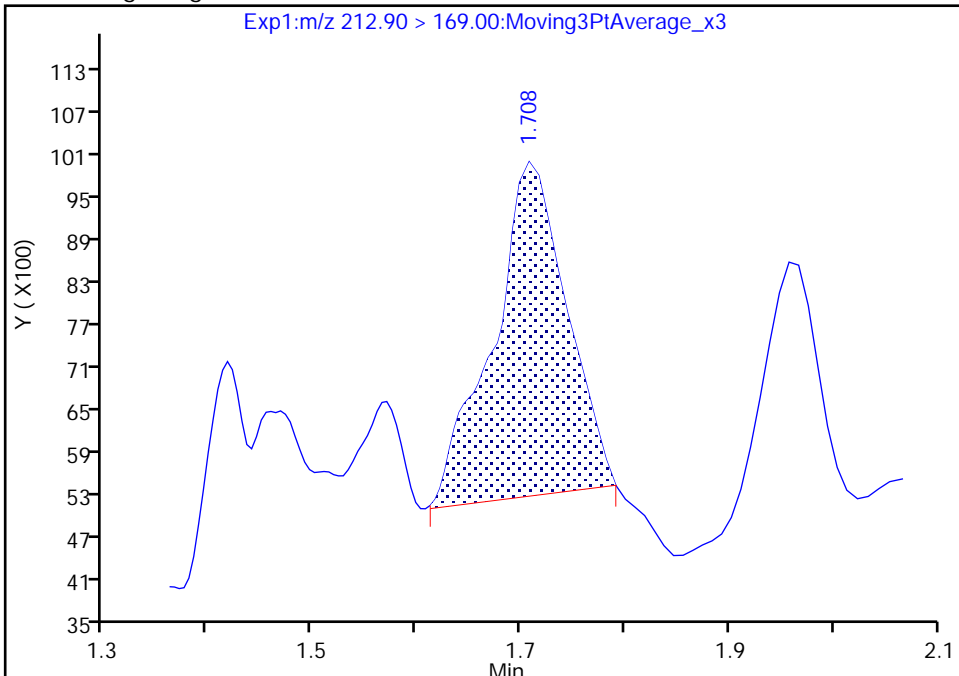
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Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

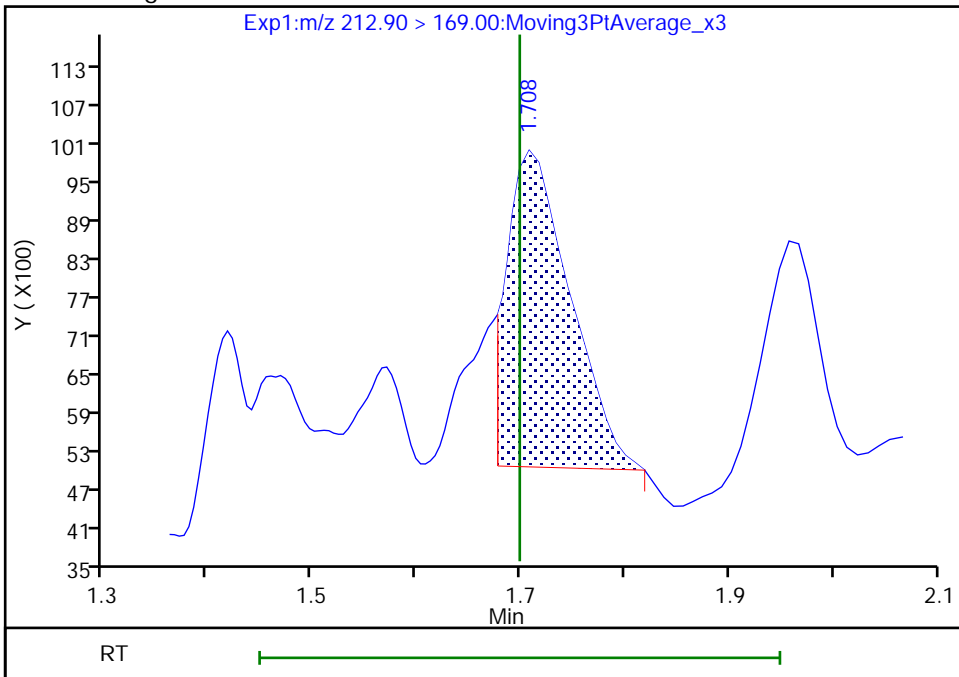
RT: 1.71  
Area: 22916  
Amount: 0.350860  
Amount Units: ng/ml

Processing Integration Results



RT: 1.71  
Area: 20347  
Amount: 0.311527  
Amount Units: ng/ml

Manual Integration Results



Reviewer: murrayjw, 12-Aug-2019 08:52:33  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

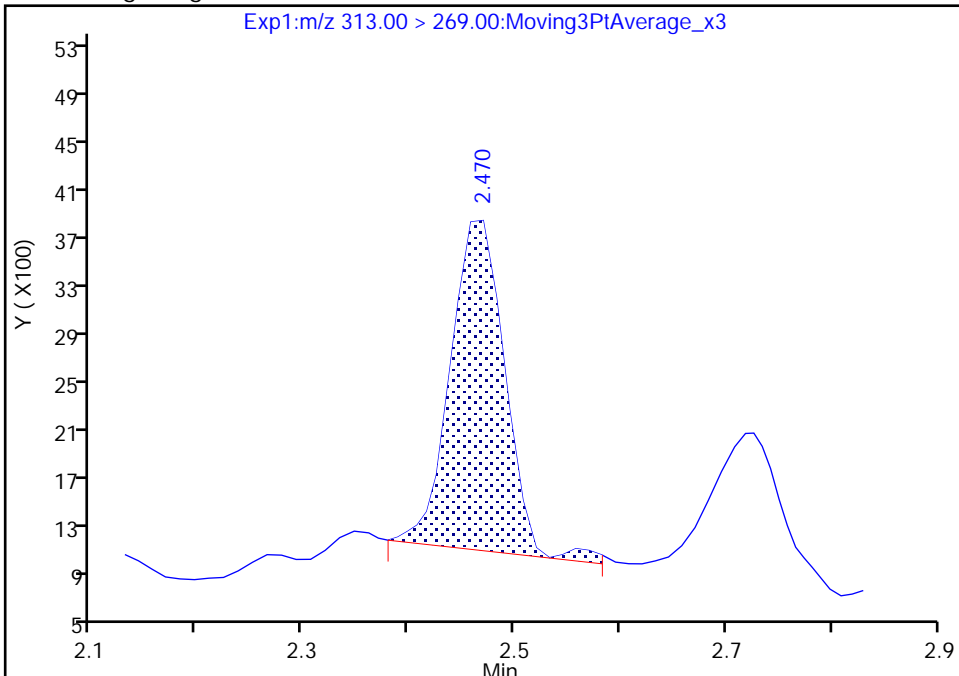
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Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

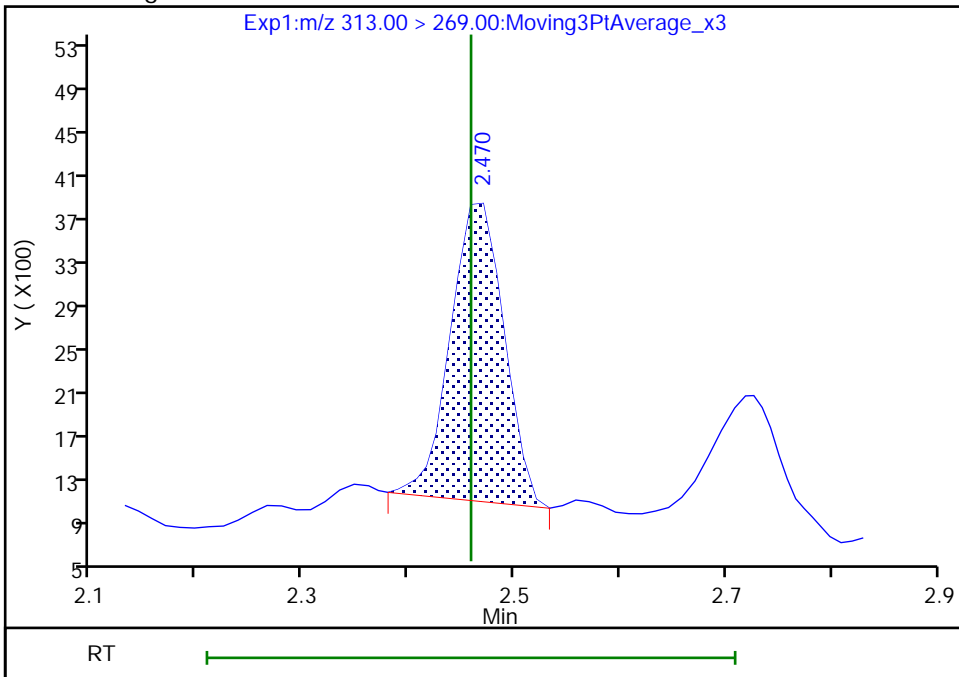
RT: 2.47  
Area: 9676  
Amount: 0.140211  
Amount Units: ng/ml

Processing Integration Results



RT: 2.47  
Area: 9460  
Amount: 0.137081  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:23:14  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Burlington

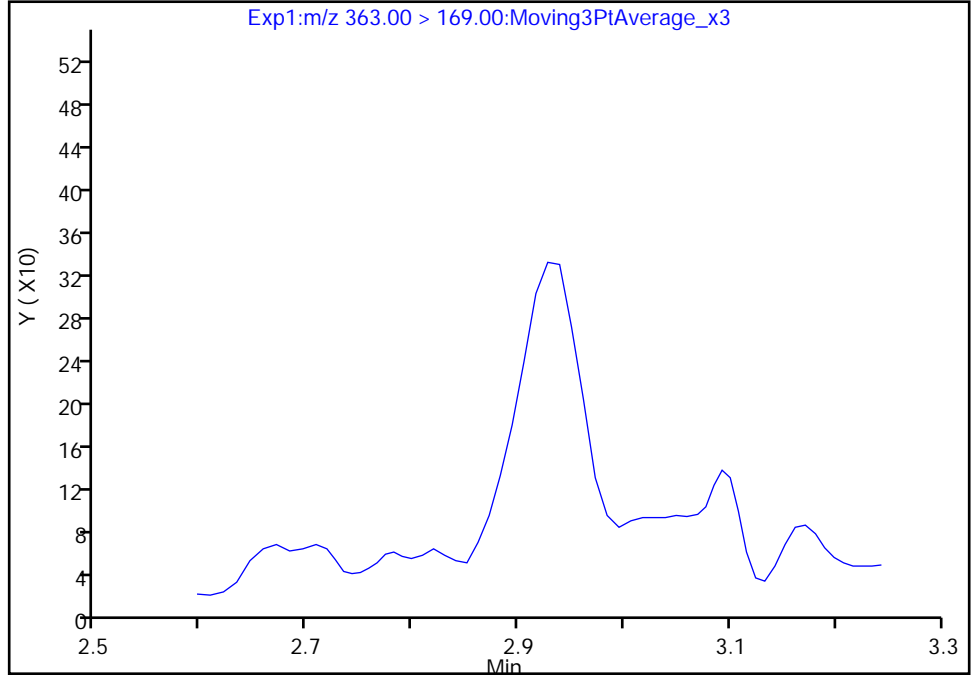
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Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

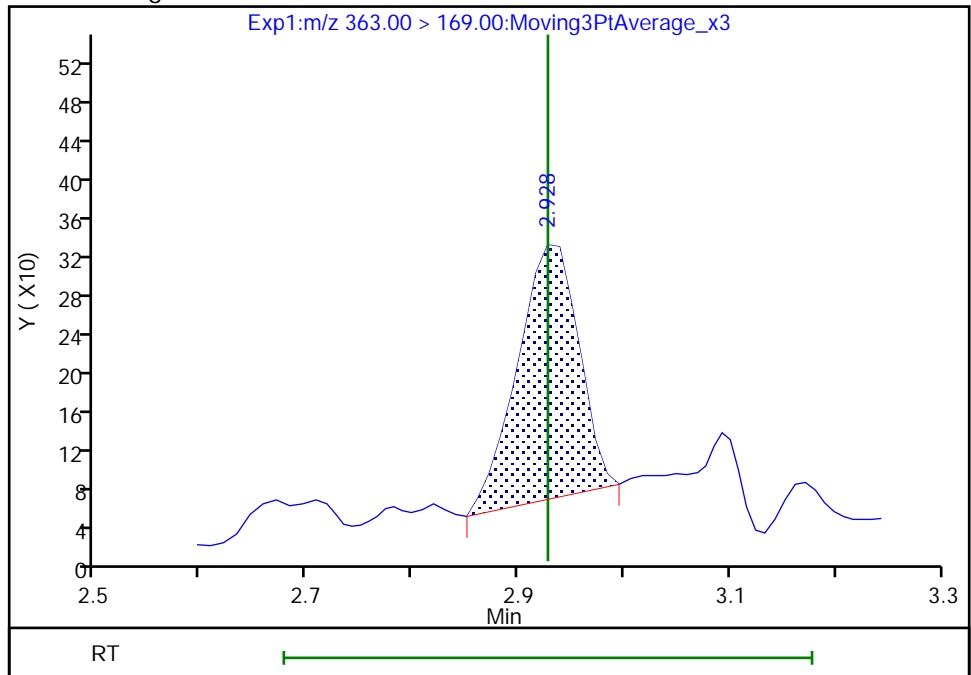
Not Detected  
Expected RT: 2.93

Processing Integration Results



RT: 2.93  
Area: 1050  
Amount: 0.049173  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:24:23  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

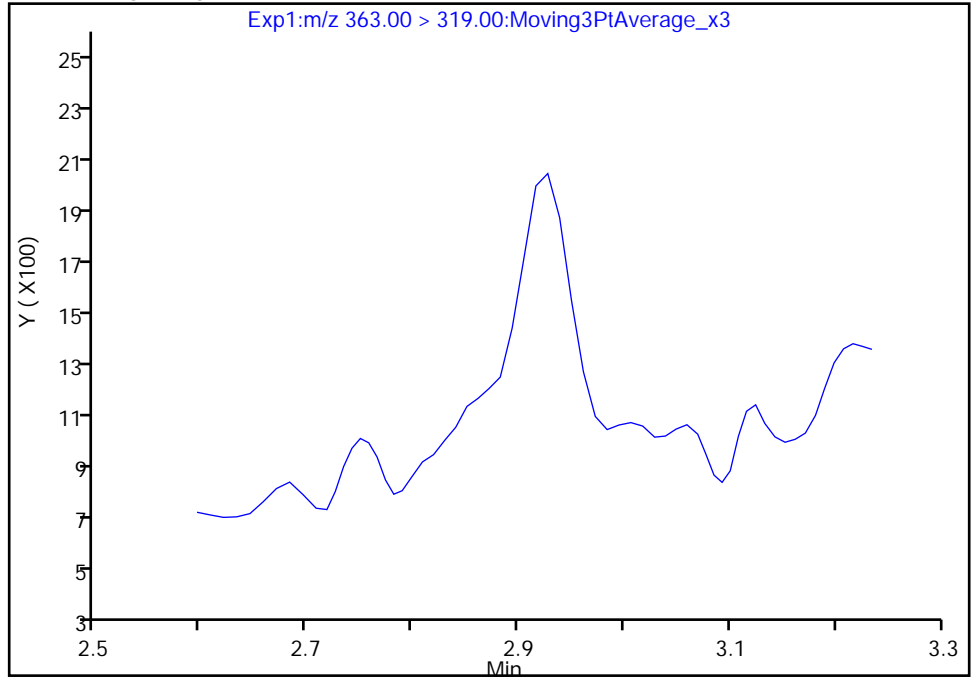
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Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

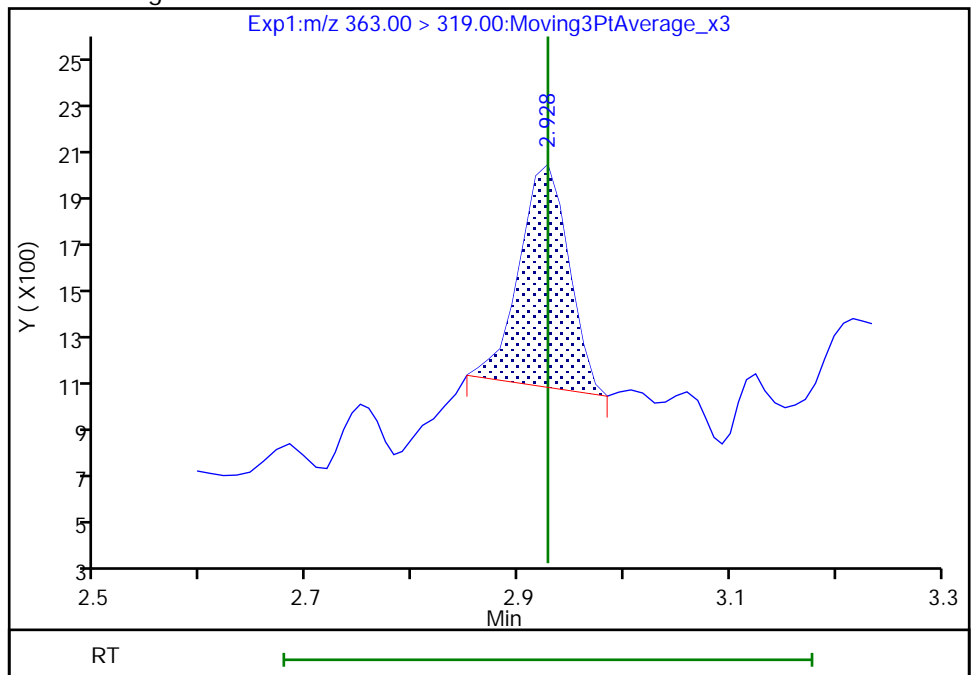
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 2950  
Amount: 0.049173  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:24:27

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

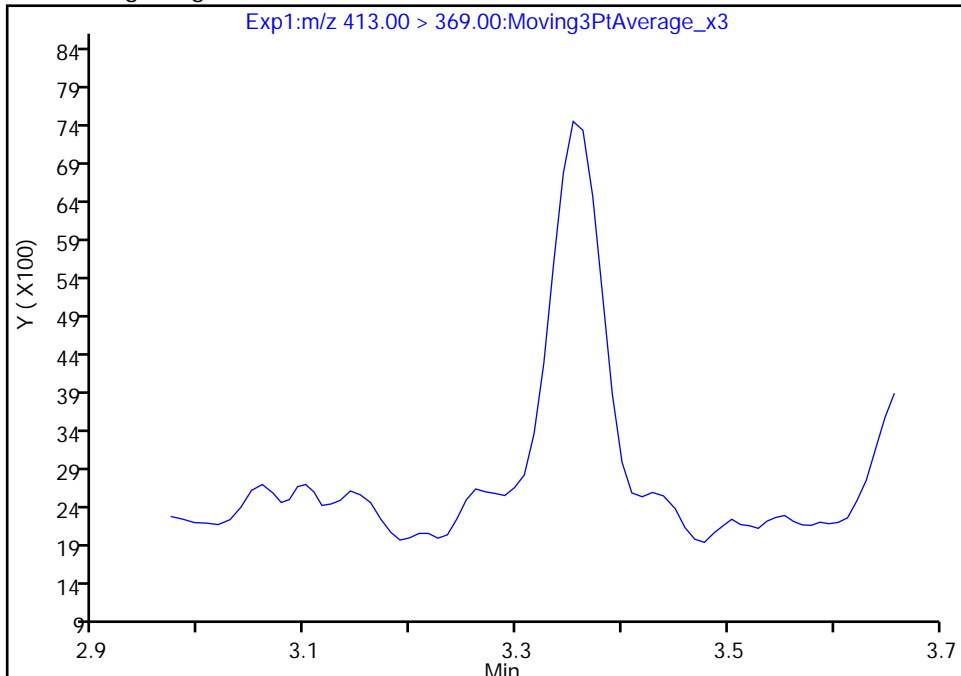
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

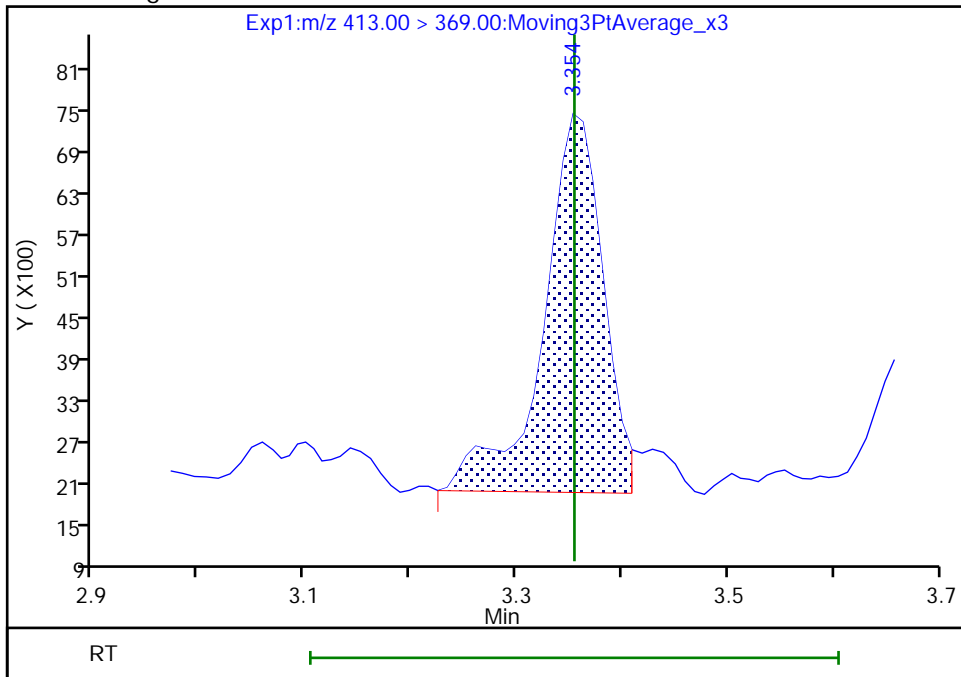
Not Detected  
Expected RT: 3.35

Processing Integration Results



RT: 3.35  
Area: 21354  
Amount: 0.303829  
Amount Units: ng/ml

Manual Integration Results



Reviewer: murrayjw, 12-Aug-2019 08:53:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

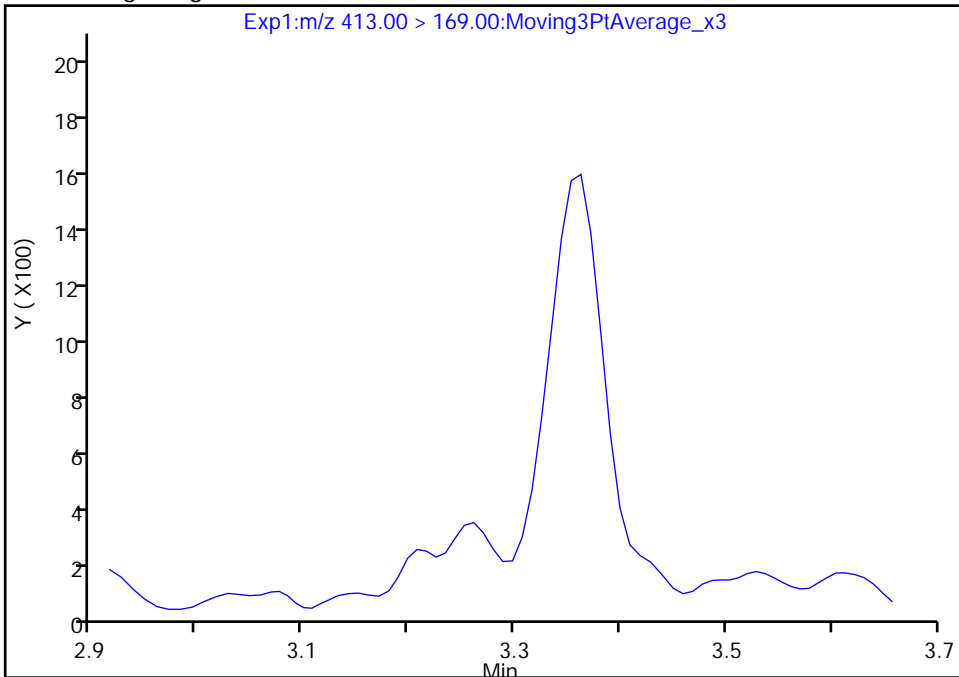
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Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

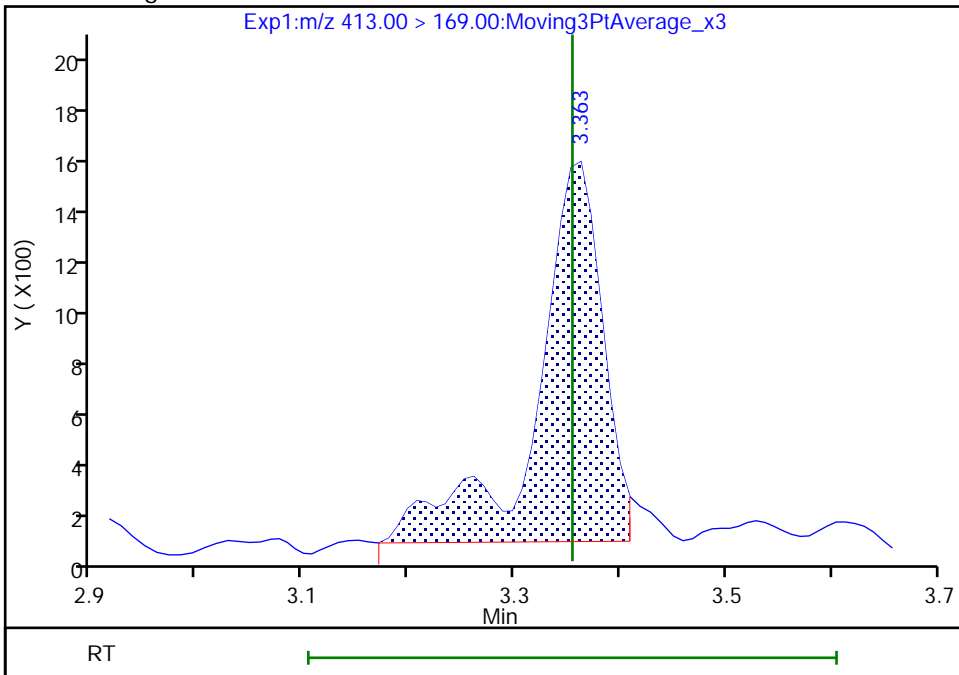
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.36  
Area: 6539  
Amount: 0.303829  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

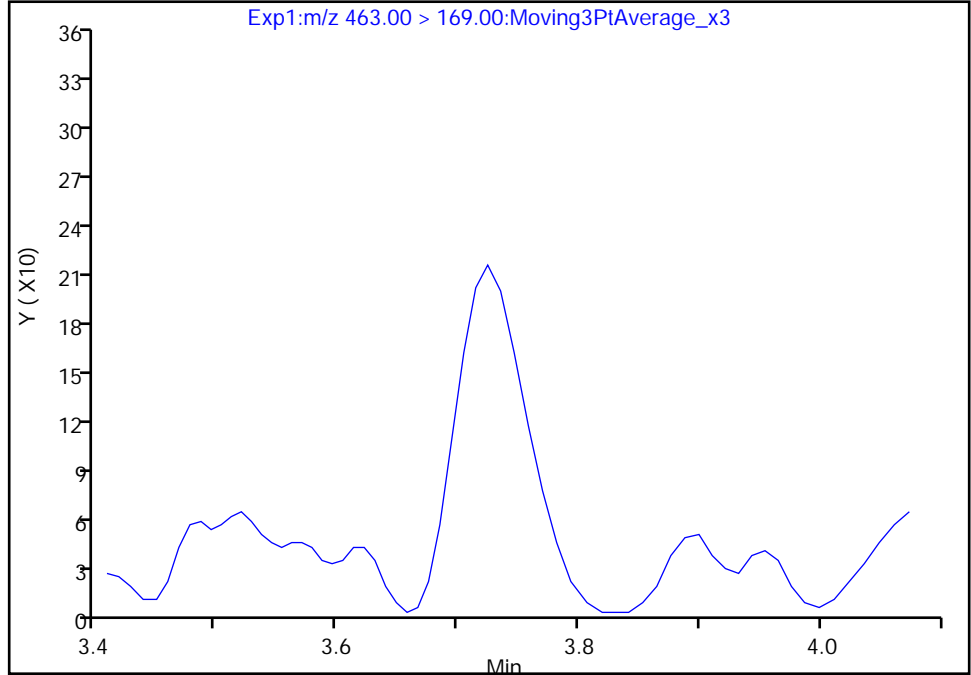
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

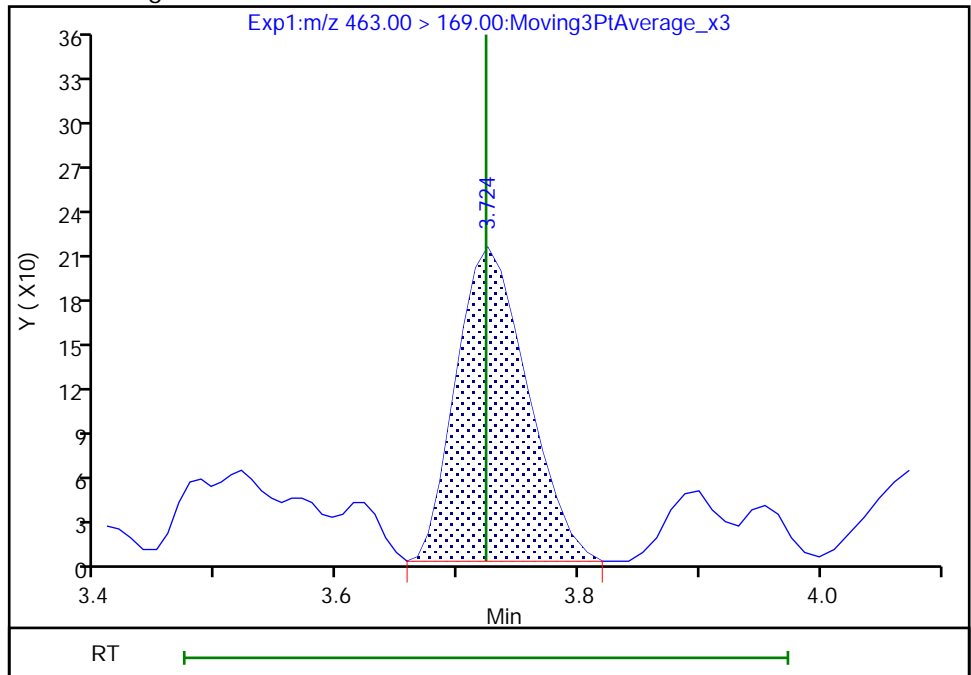
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.72  
Area: 876  
Amount: 0.065073  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:25:37

Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

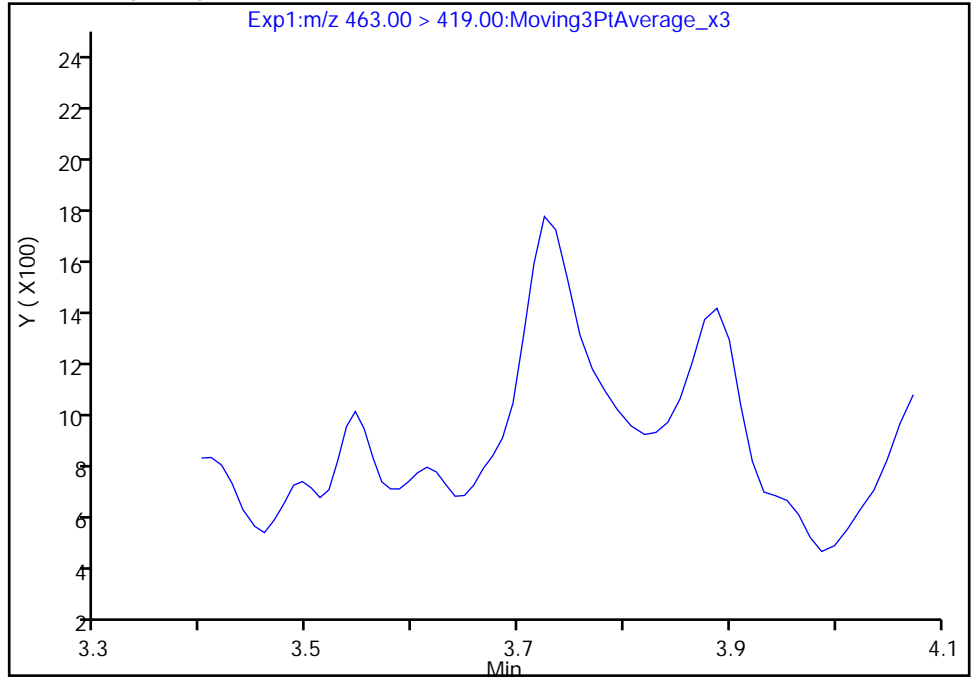
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Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

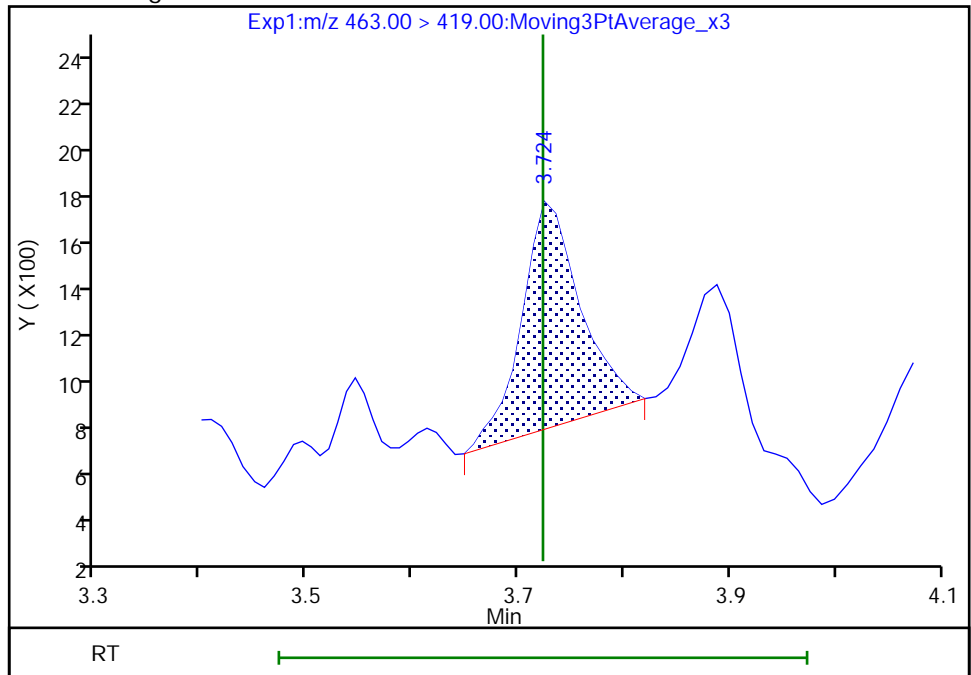
Not Detected  
Expected RT: 3.72

Processing Integration Results



Manual Integration Results

RT: 3.72  
Area: 3684  
Amount: 0.065073  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:25:41

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Euofins TestAmerica, Burlington

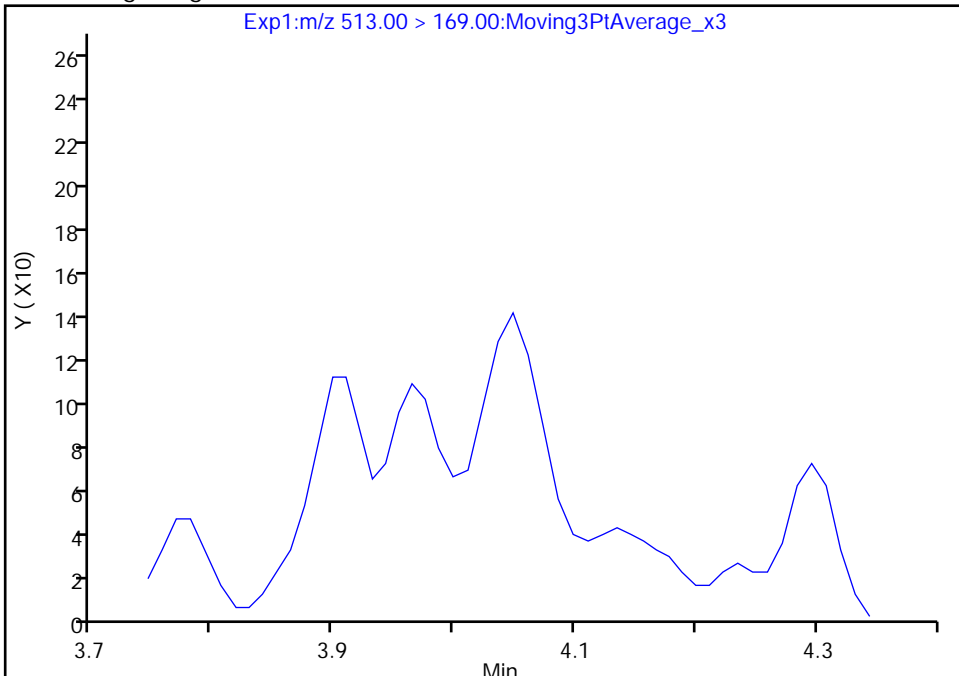
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

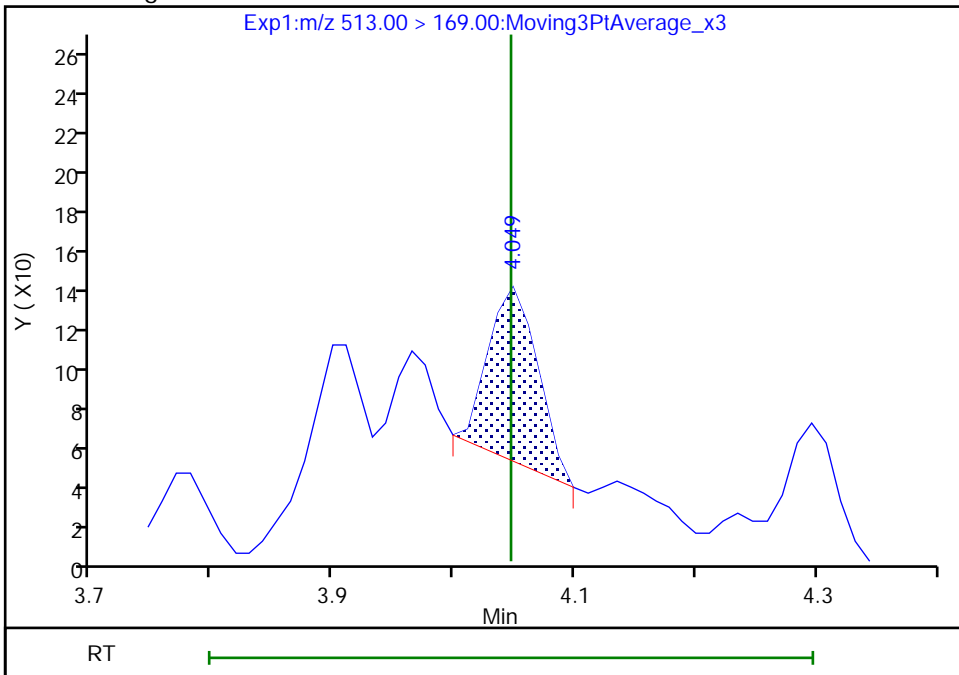
Not Detected  
Expected RT: 4.05

Processing Integration Results



RT: 4.05  
Area: 245  
Amount: 0.071364  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:26:04  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

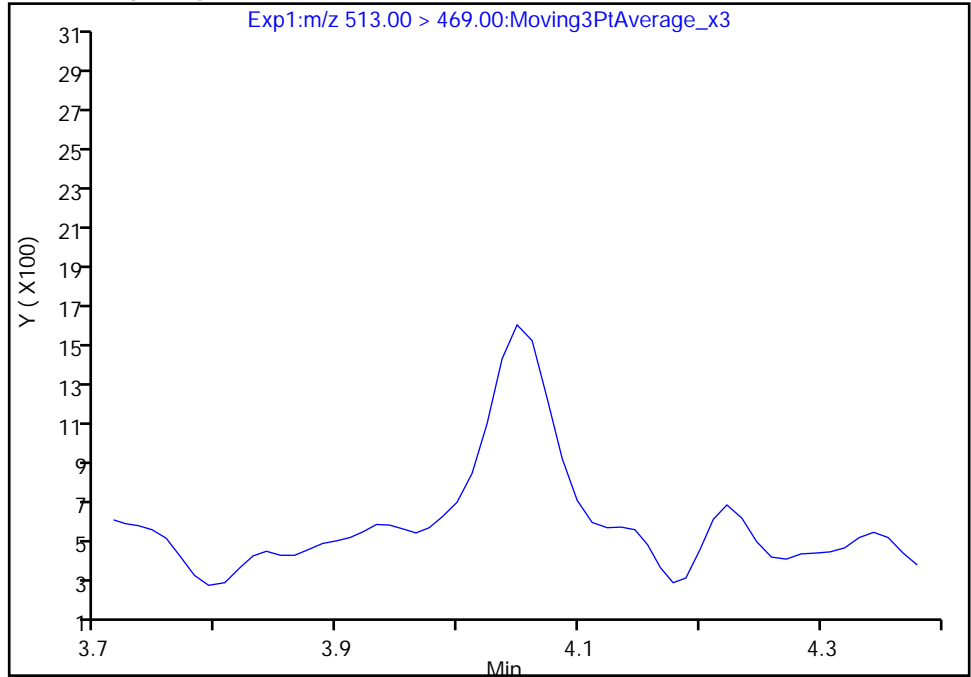
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

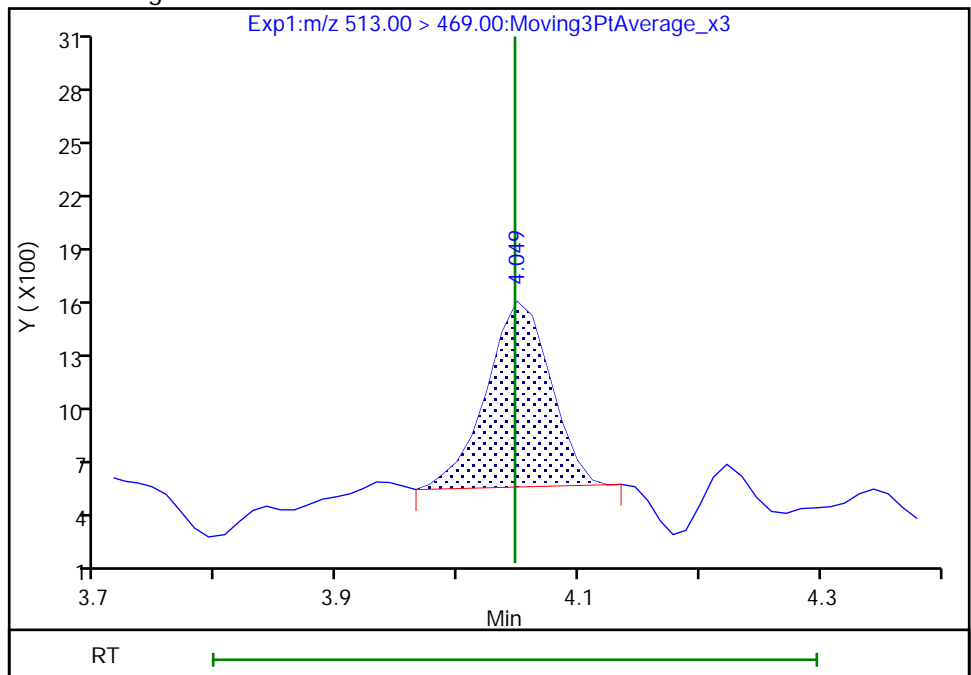
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.05  
Area: 3754  
Amount: 0.071364  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

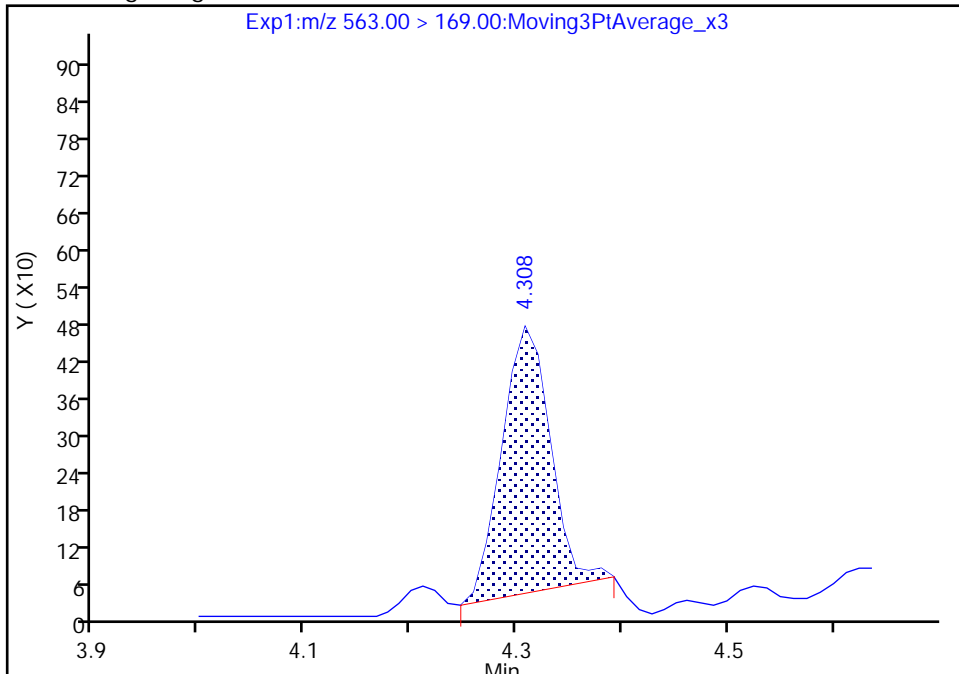
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

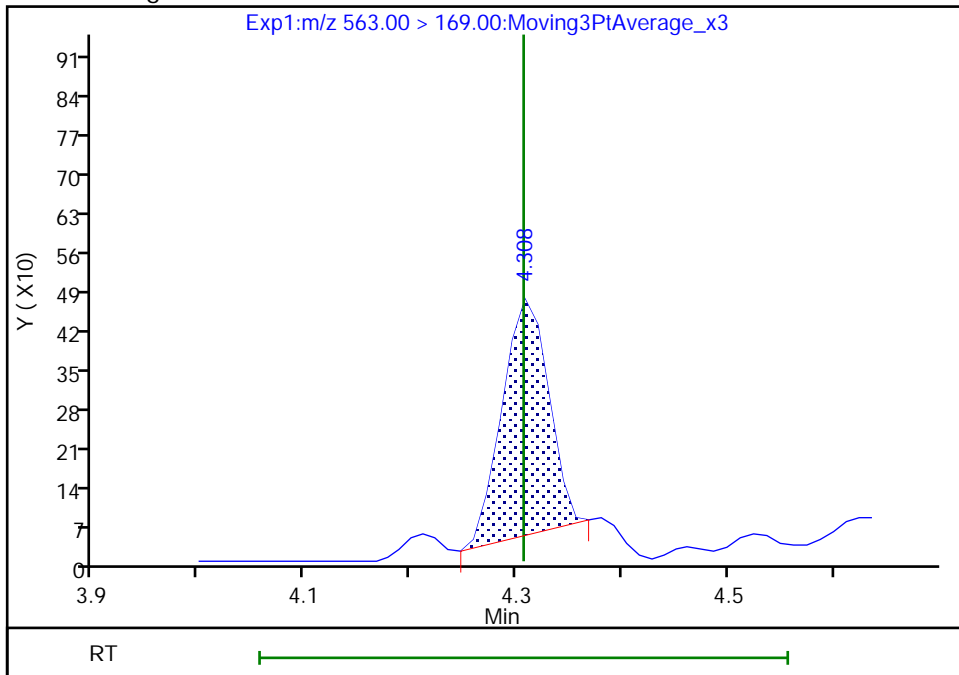
RT: 4.31  
Area: 1370  
Amount: 0.194742  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 1287  
Amount: 0.173861  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:26:49  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

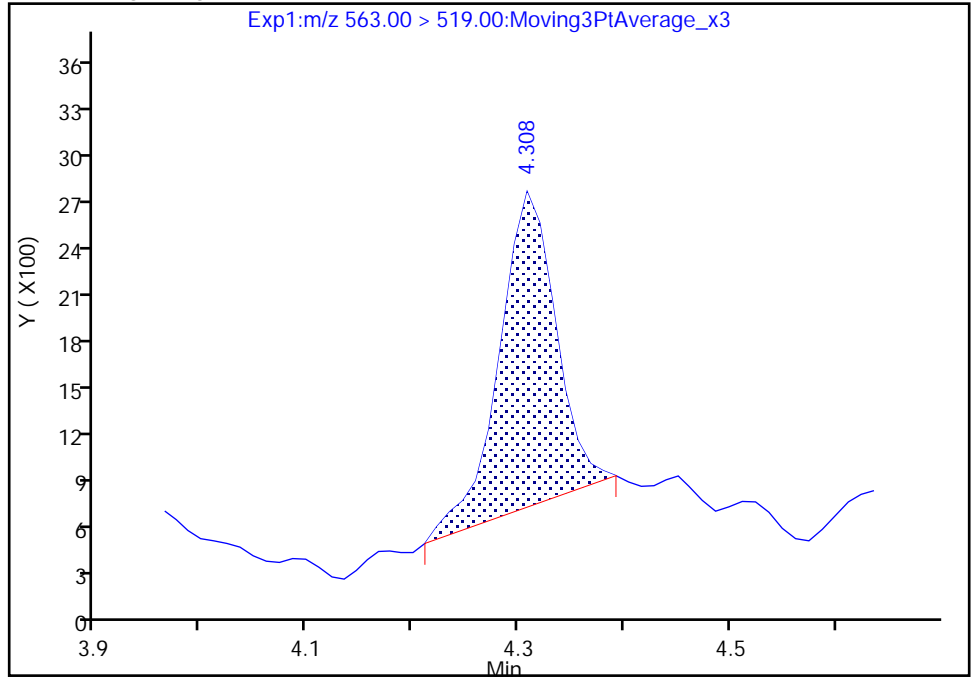
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

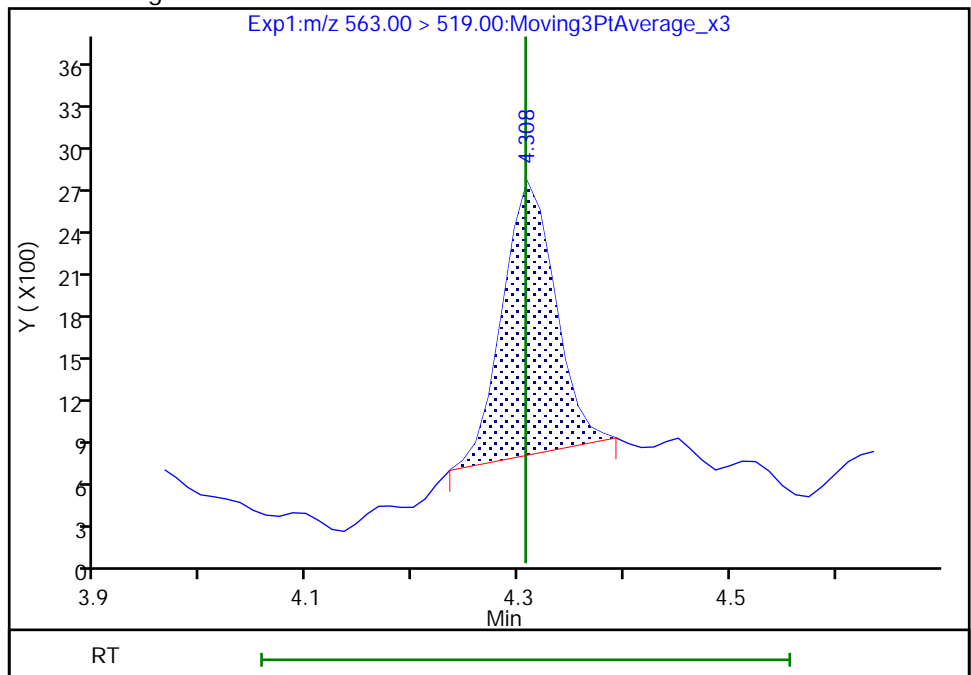
RT: 4.31  
Area: 7601  
Amount: 0.194742  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 6786  
Amount: 0.173861  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:26:55

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

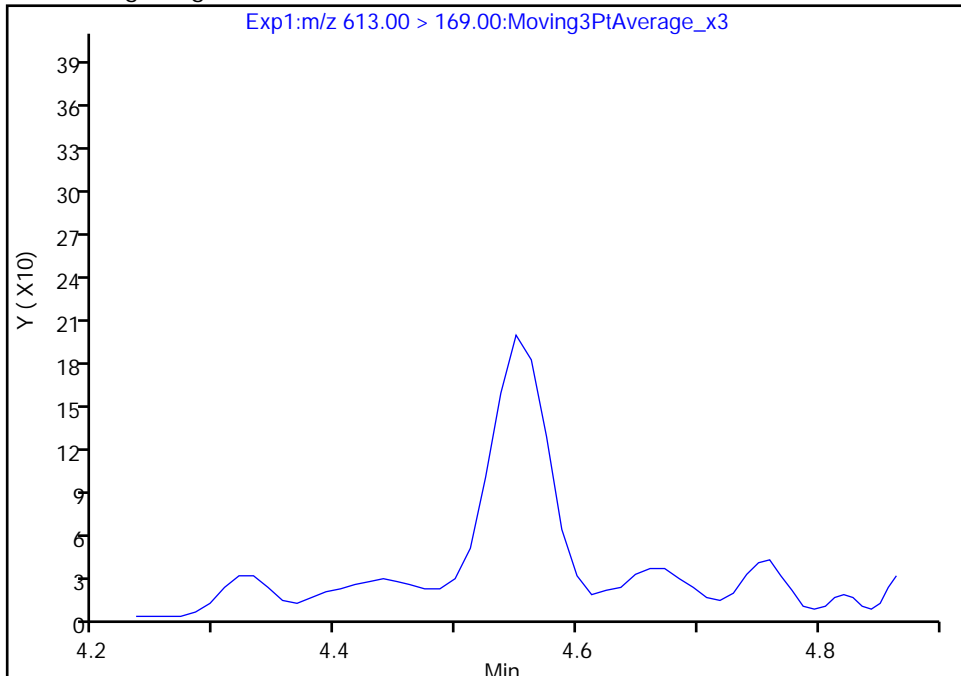
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

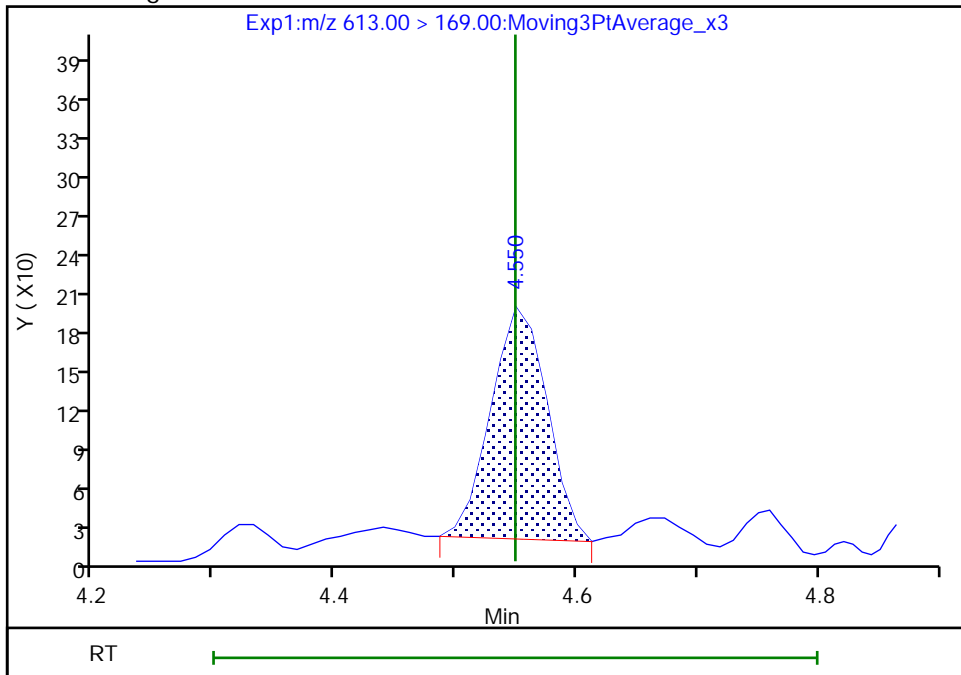
Not Detected  
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55  
Area: 570  
Amount: 0.067240  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:27:29  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

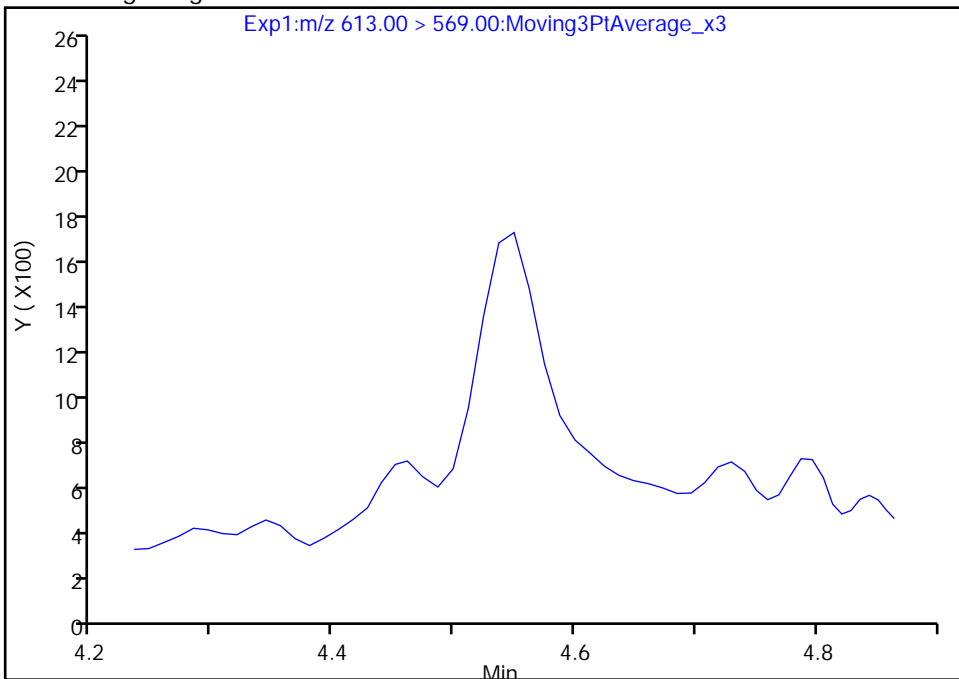
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

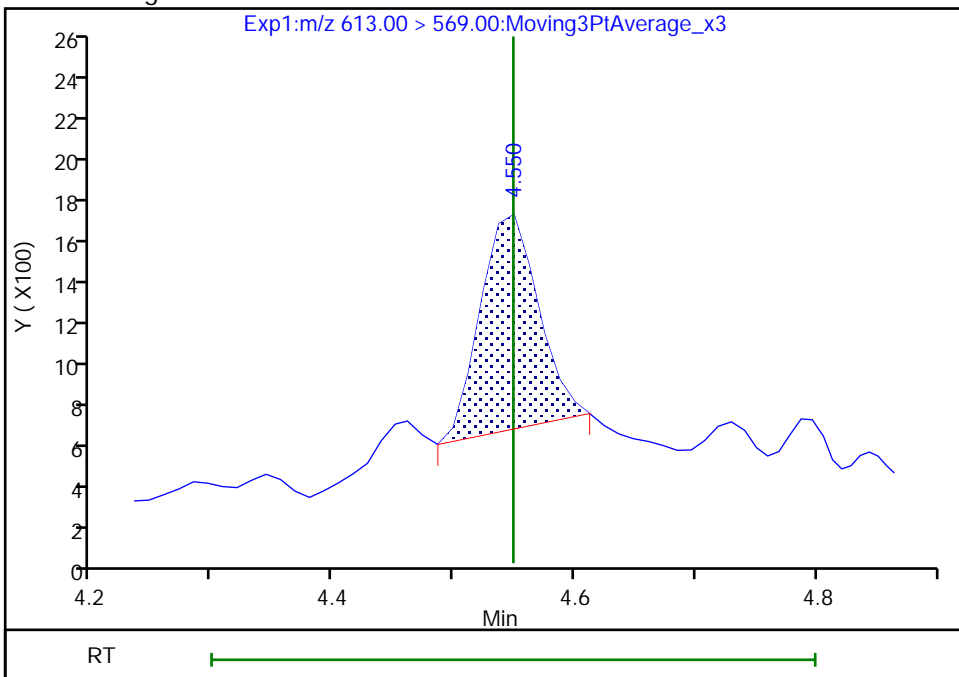
Not Detected  
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55  
Area: 3456  
Amount: 0.067240  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:27:29

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

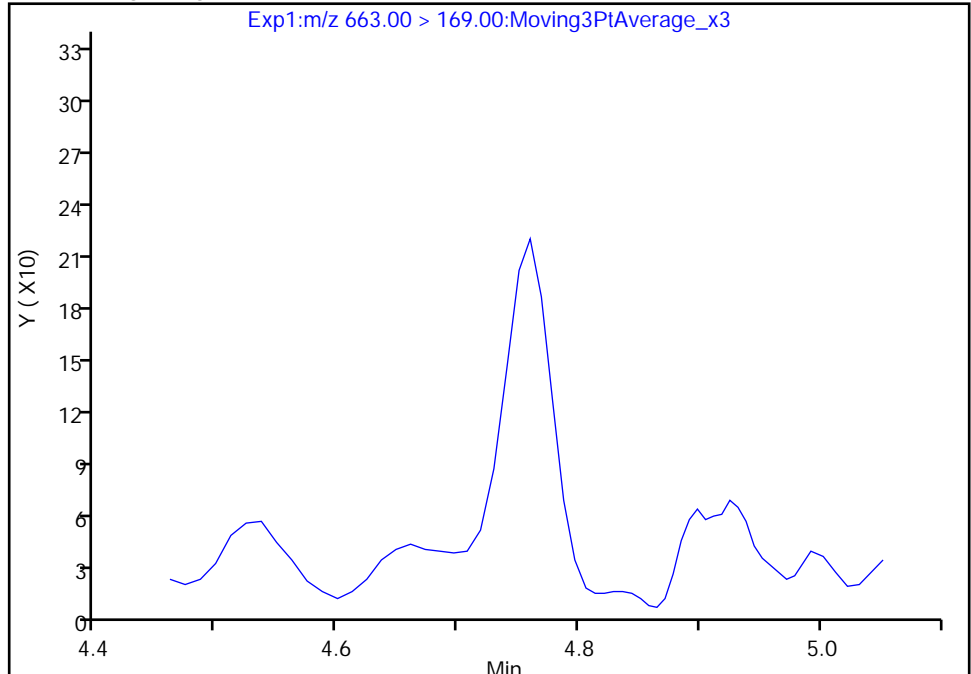
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

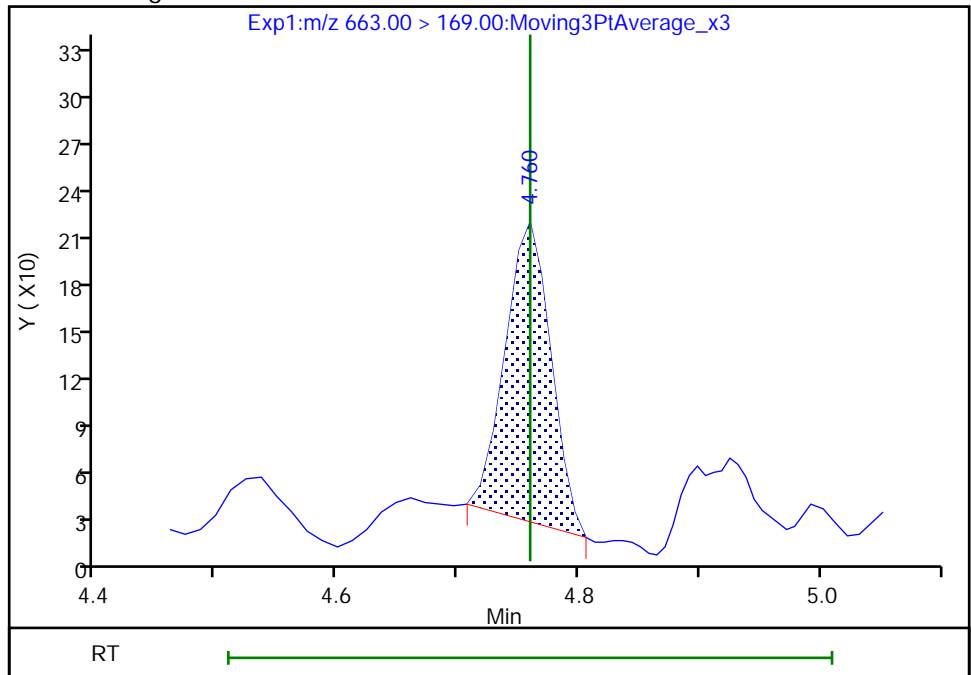
Not Detected  
Expected RT: 4.76

Processing Integration Results



Manual Integration Results

RT: 4.76  
Area: 492  
Amount: 0.065898  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:28:13  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

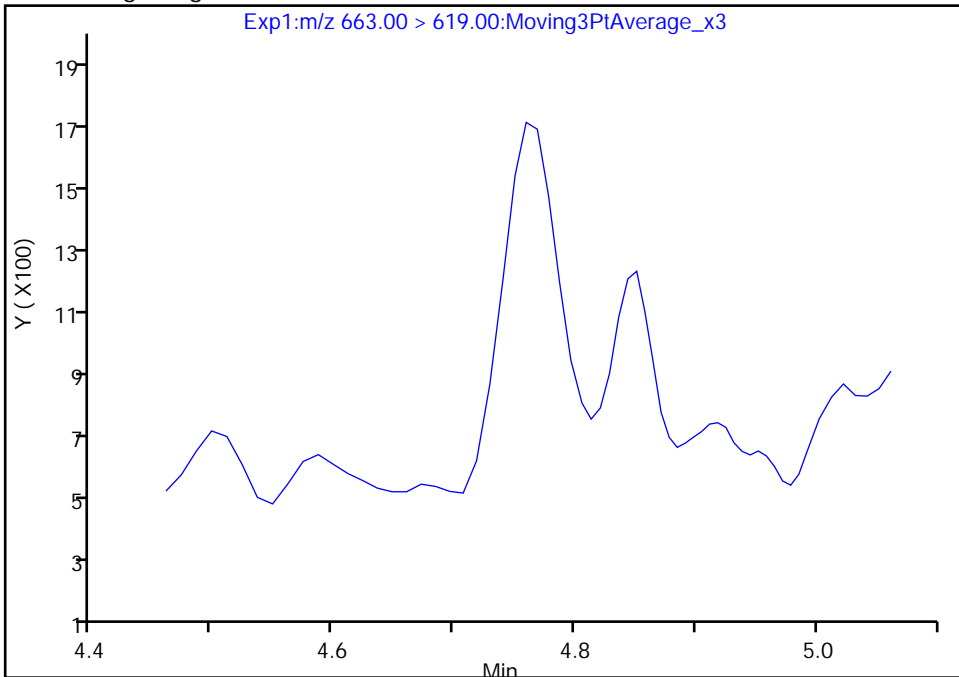
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

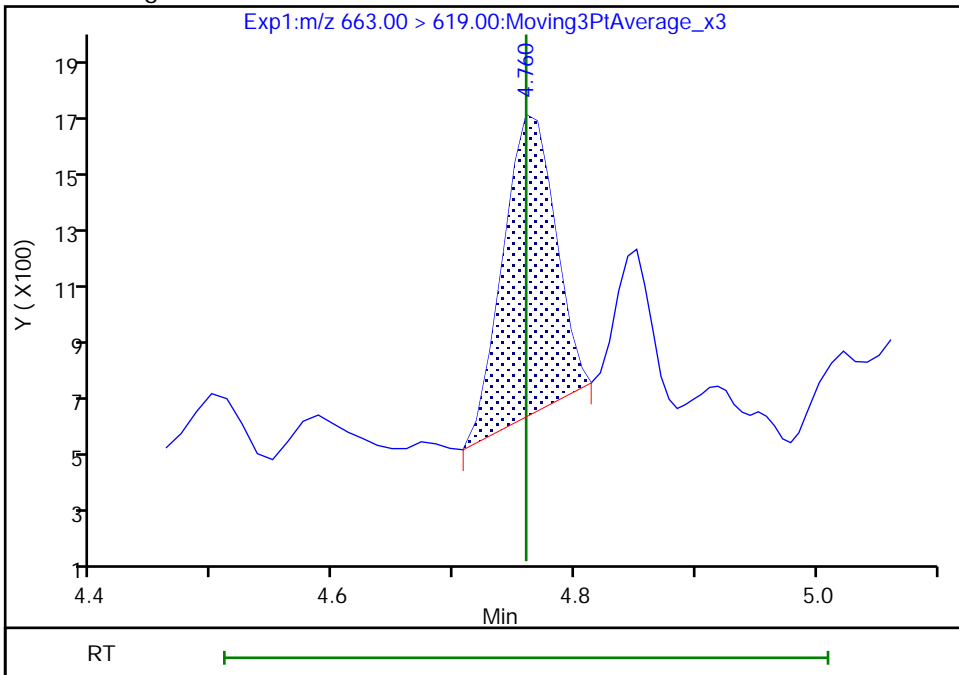
Not Detected  
Expected RT: 4.76

Processing Integration Results



Manual Integration Results

RT: 4.76  
Area: 3040  
Amount: 0.065898  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

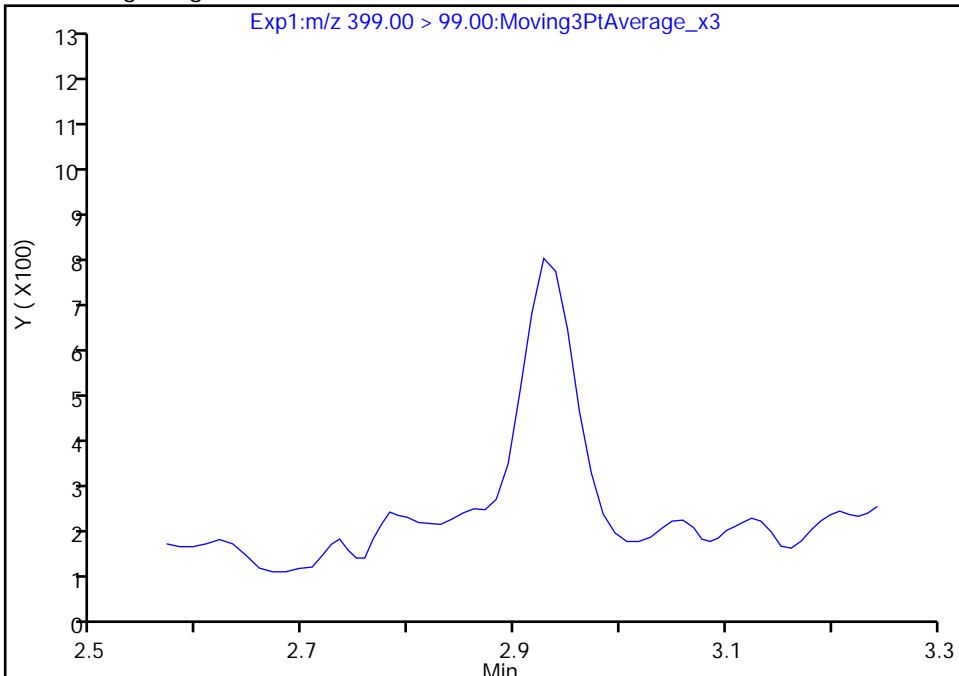
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

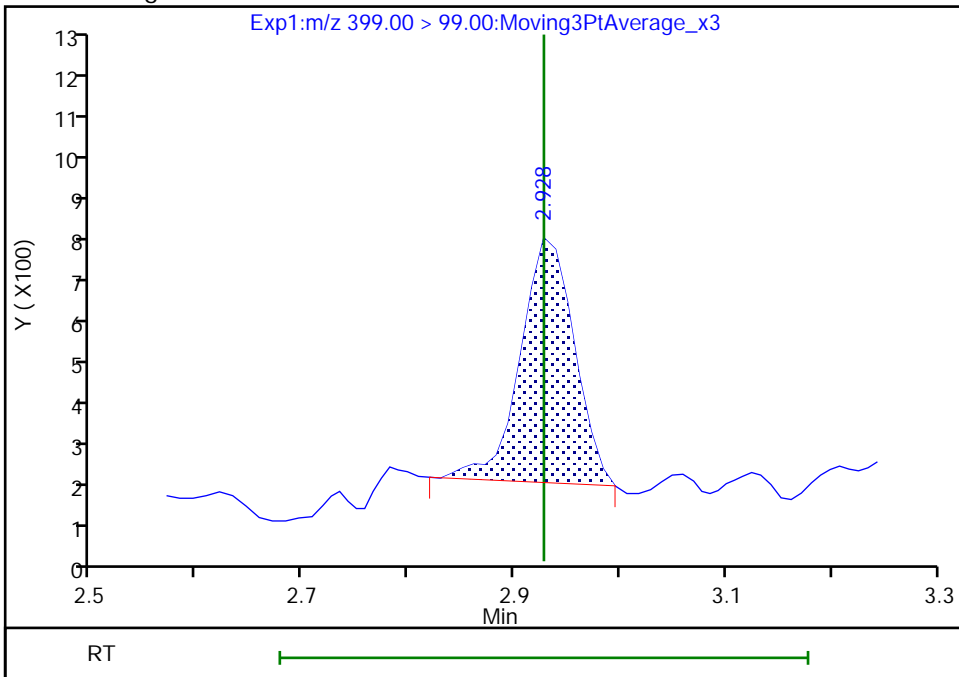
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 2018  
Amount: 0.186480  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:24:04  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

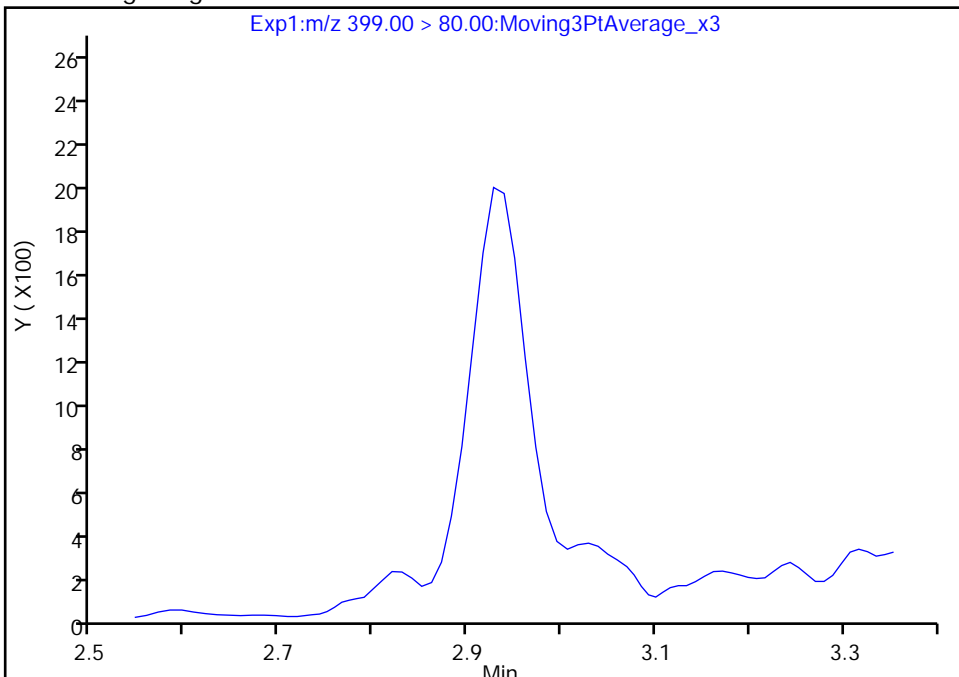
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

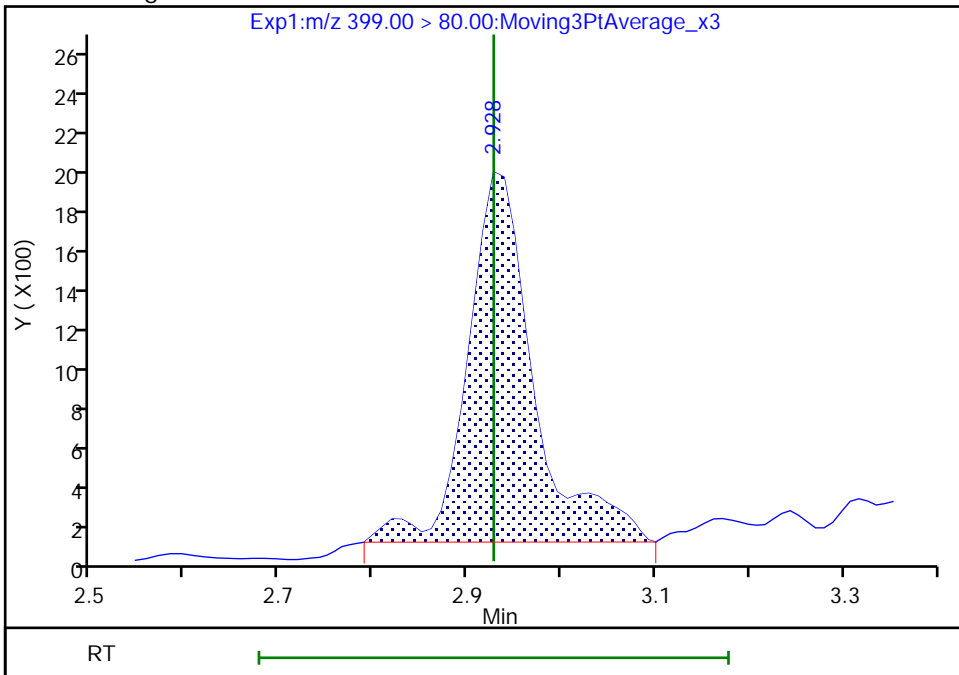
Not Detected  
Expected RT: 2.93

Processing Integration Results



Manual Integration Results

RT: 2.93  
Area: 8951  
Amount: 0.186480  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:24:04

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

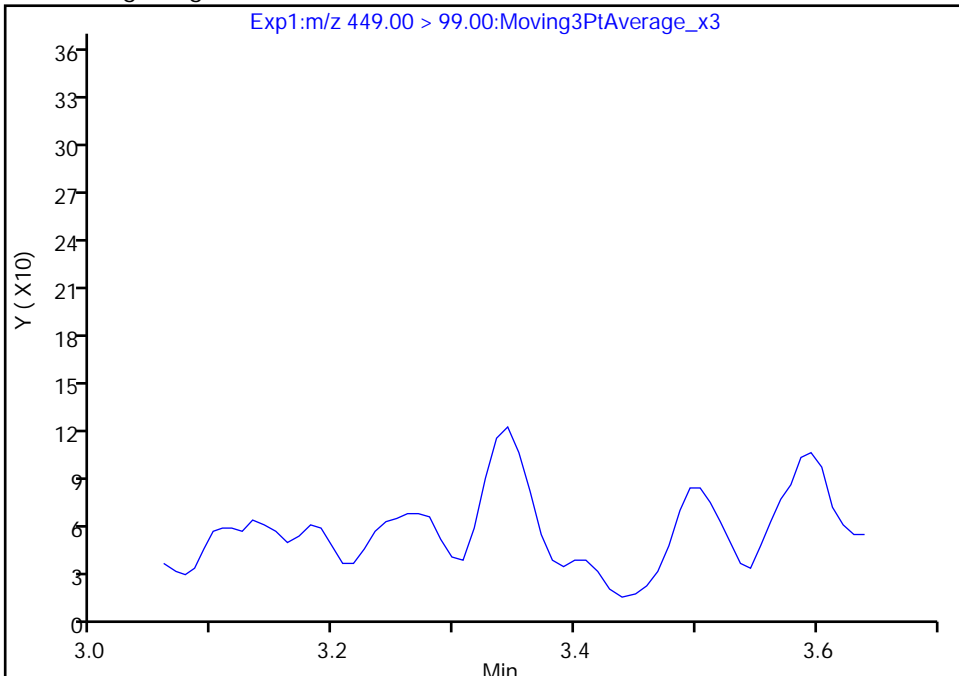
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

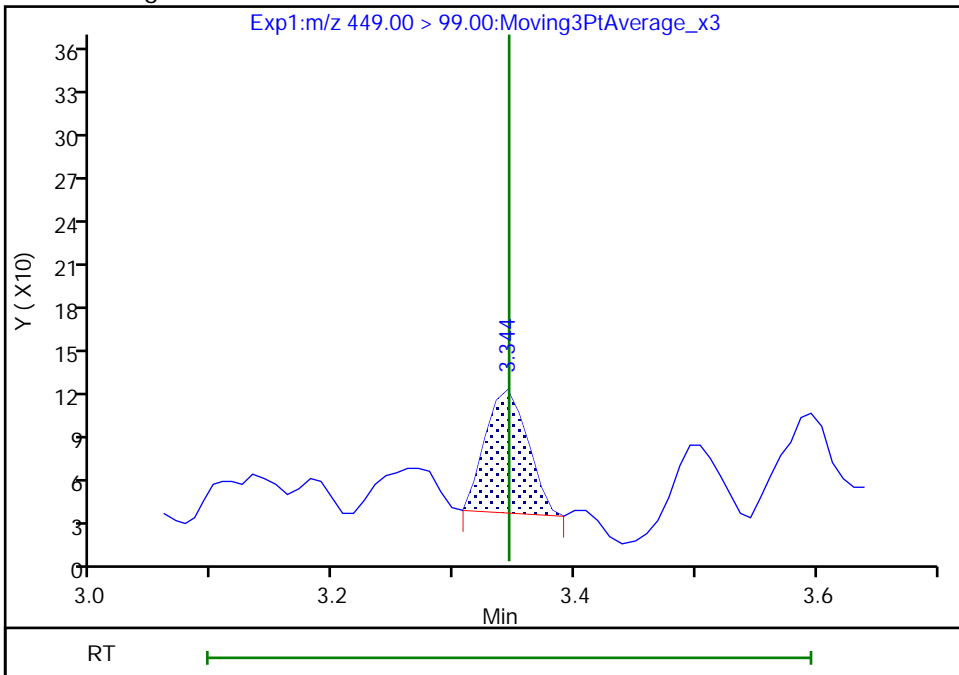
Not Detected  
Expected RT: 3.35

Processing Integration Results



RT: 3.34  
Area: 206  
Amount: 0.036435  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:24:38  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

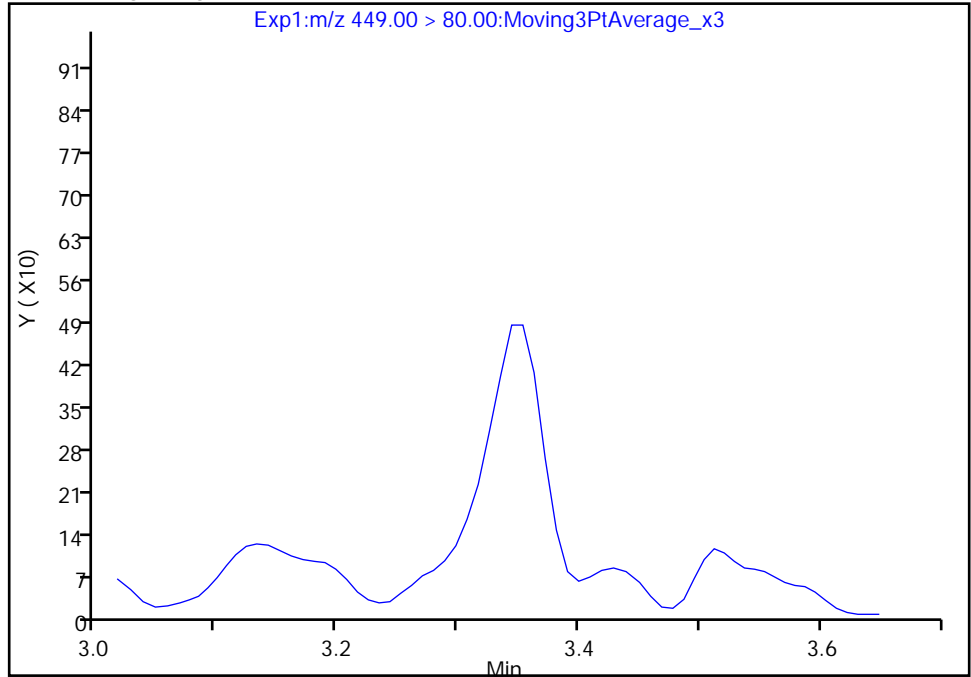
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

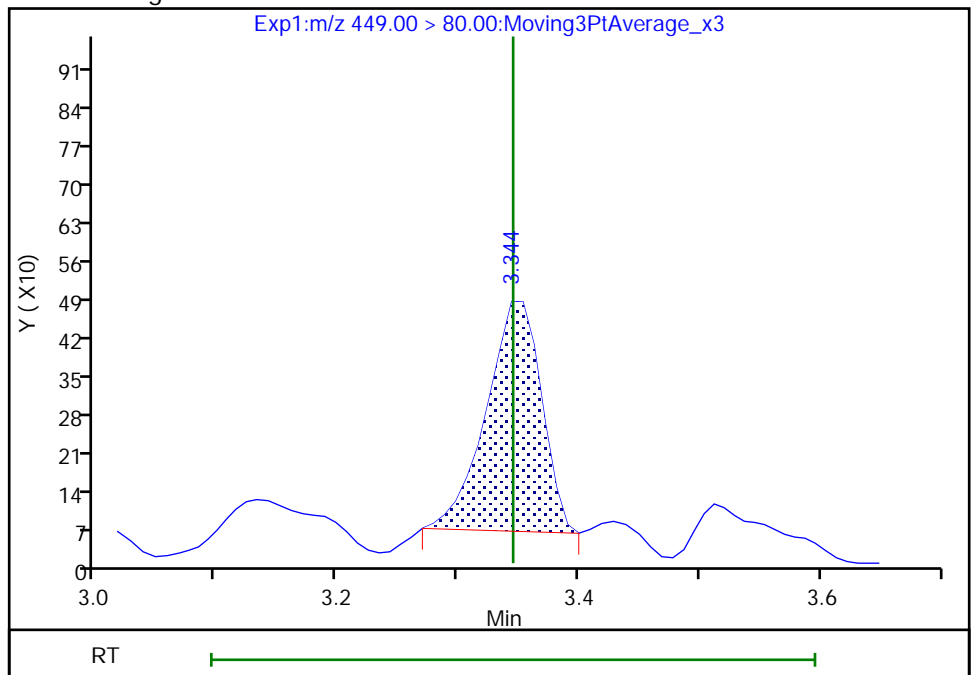
Not Detected  
Expected RT: 3.35

Processing Integration Results



Manual Integration Results

RT: 3.34  
Area: 1337  
Amount: 0.036435  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:24:42

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

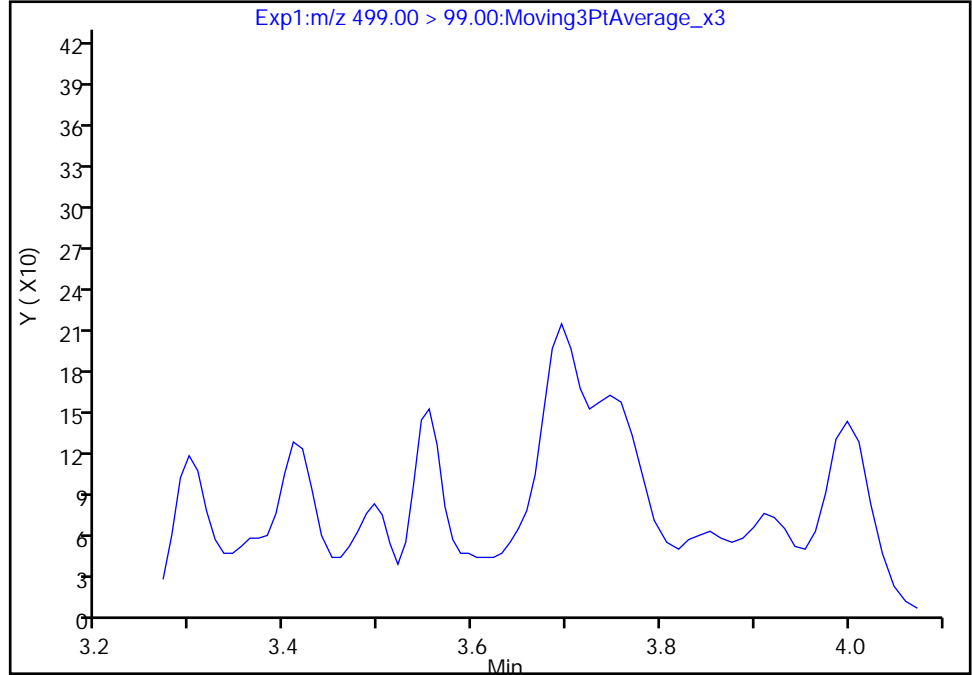
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

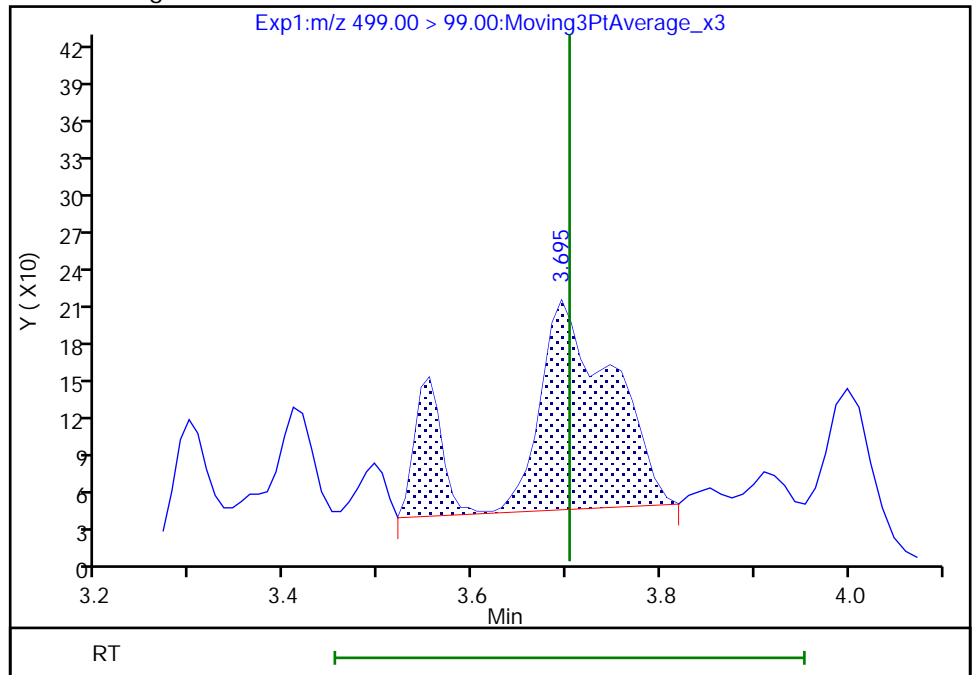
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.69  
Area: 1110  
Amount: 0.117846  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:25:24  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

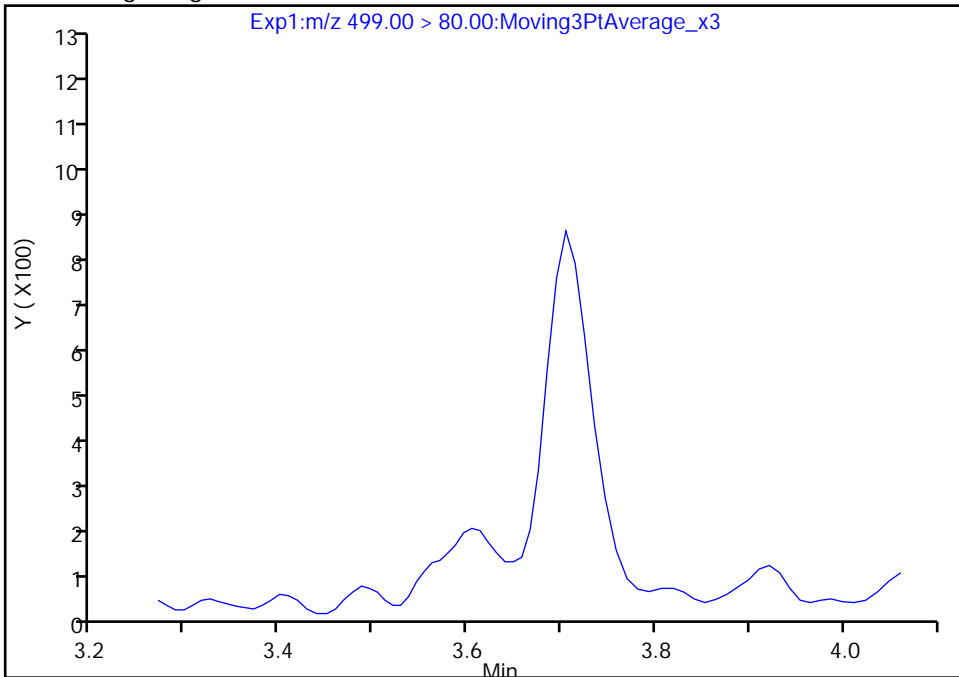
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

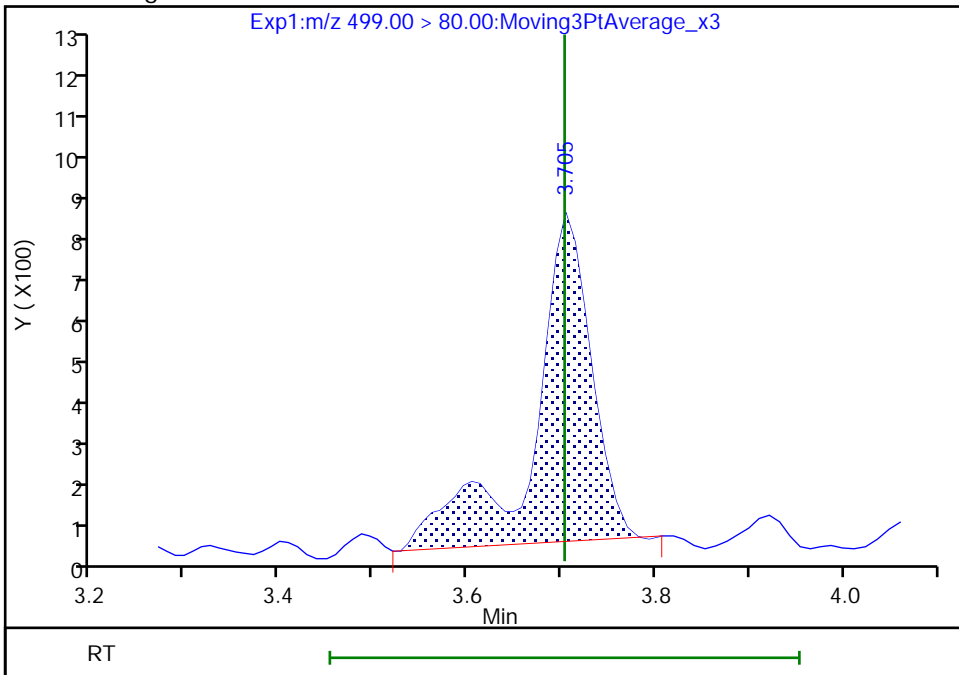
Not Detected  
Expected RT: 3.70

Processing Integration Results



Manual Integration Results

RT: 3.70  
Area: 3398  
Amount: 0.117846  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

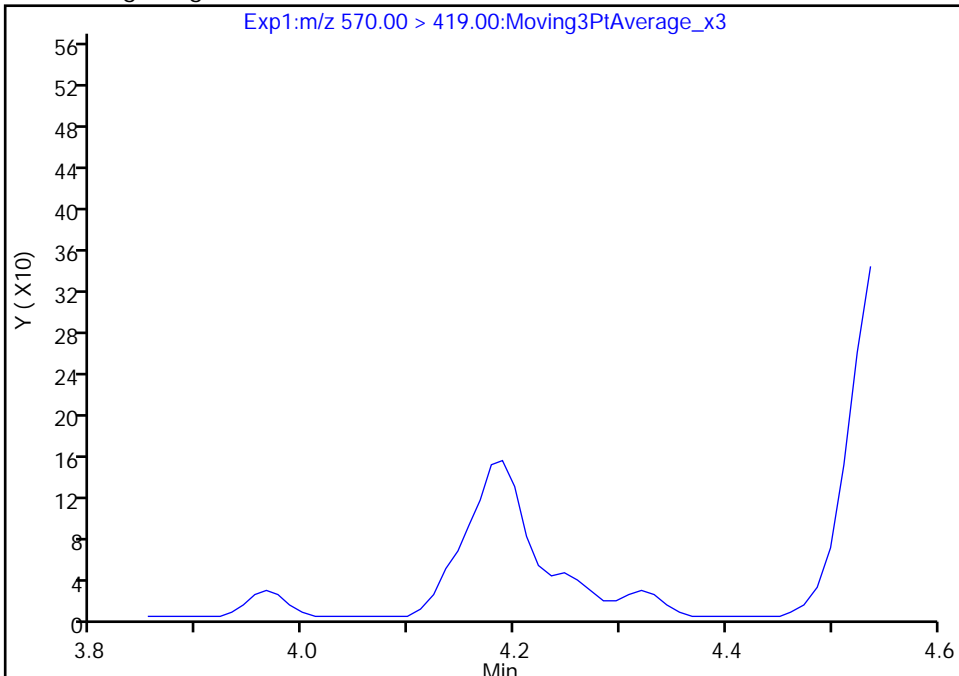
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonamidoacetic aci, CAS: 2355-31-9

Signal: 1

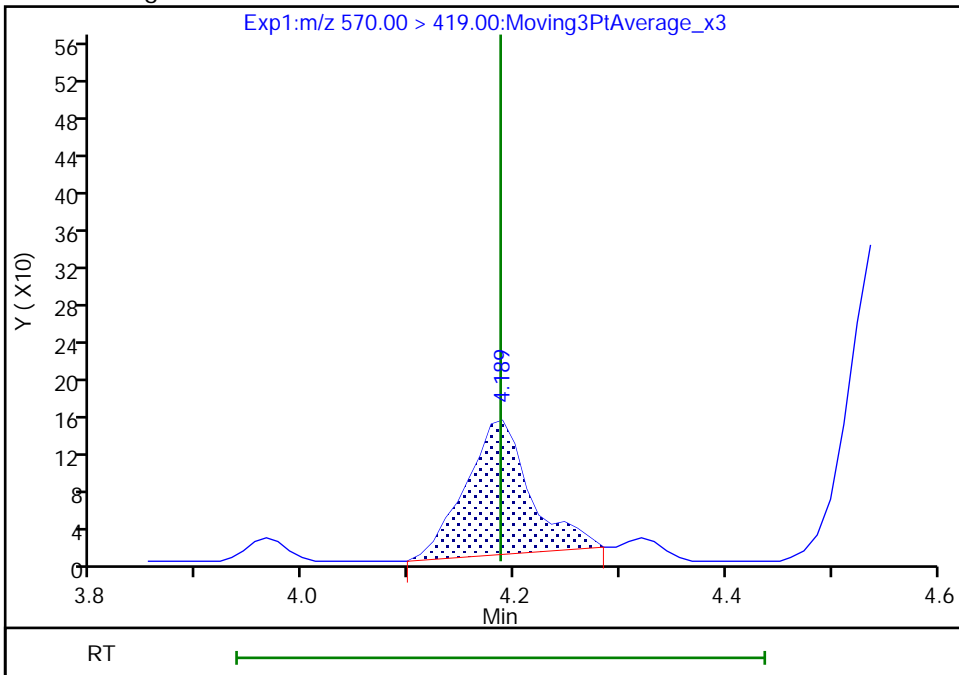
Not Detected  
Expected RT: 4.19

Processing Integration Results



Manual Integration Results

RT: 4.19  
Area: 609  
Amount: 0.145005  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:26:35  
Audit Action: Manually Integrated

Audit Reason: Assign Peak



Eurofins TestAmerica, Burlington

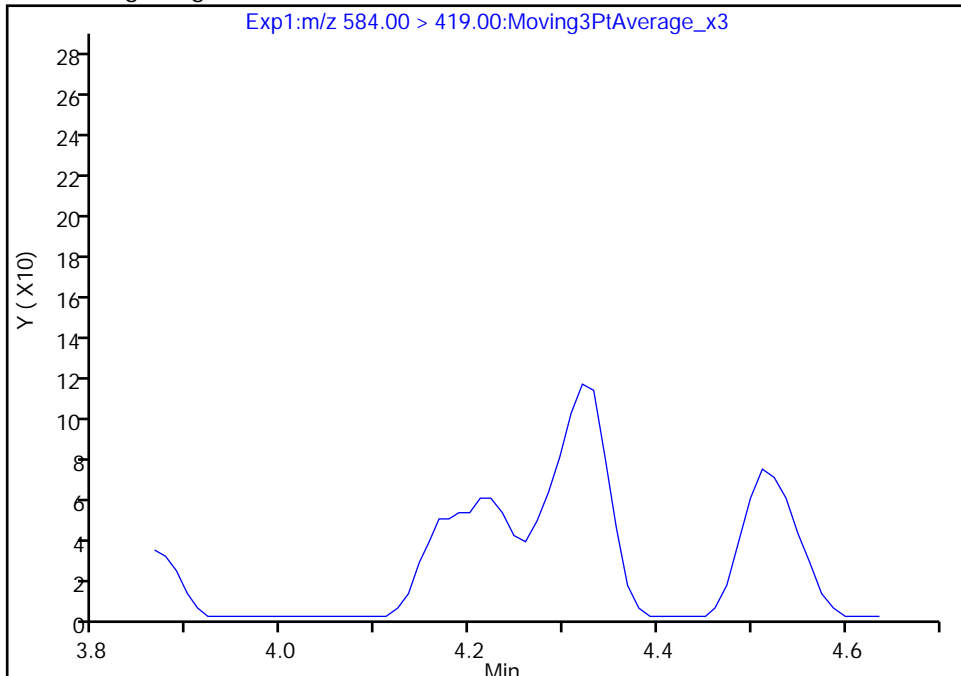
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamidoacetic acid, CAS: 2991-50-6

Signal: 1

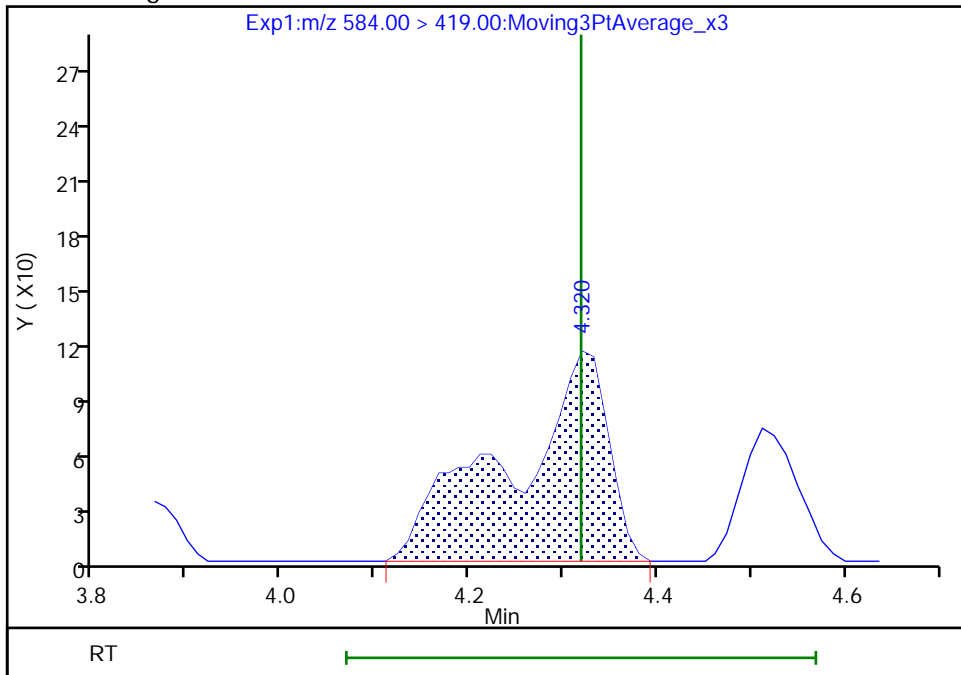
Not Detected  
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 811  
Amount: 0.211889  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:27:05  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Burlington

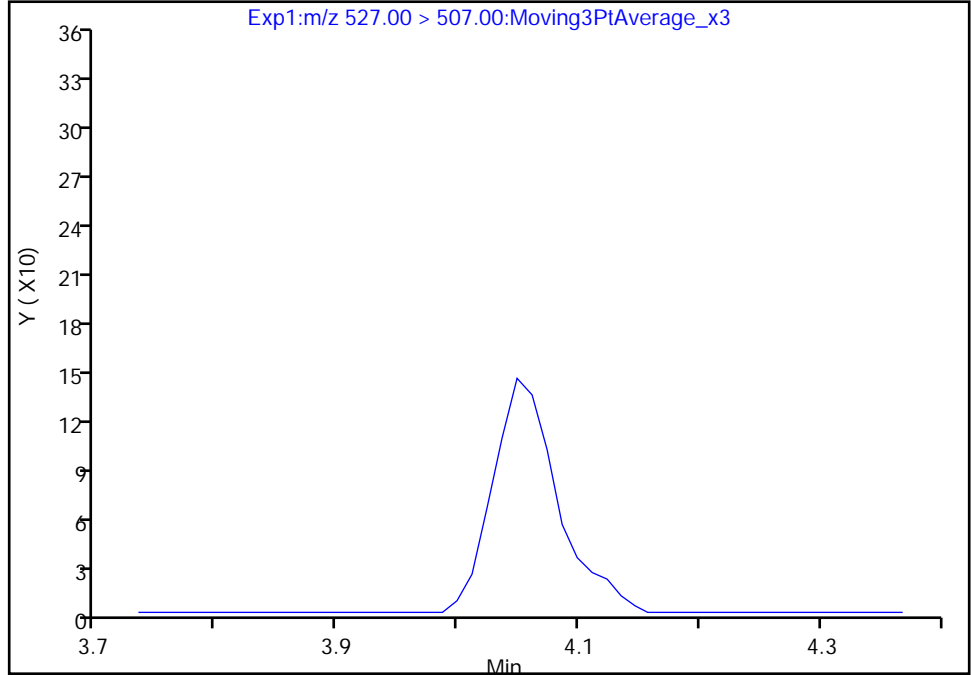
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E002.d  
Injection Date: 02-Aug-2019 03:57:22 Instrument ID: LC812  
Lims ID: MB 200-145382/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 49 Worklist Smp#: 2  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:, CAS: 39108-34-4

Signal: 1

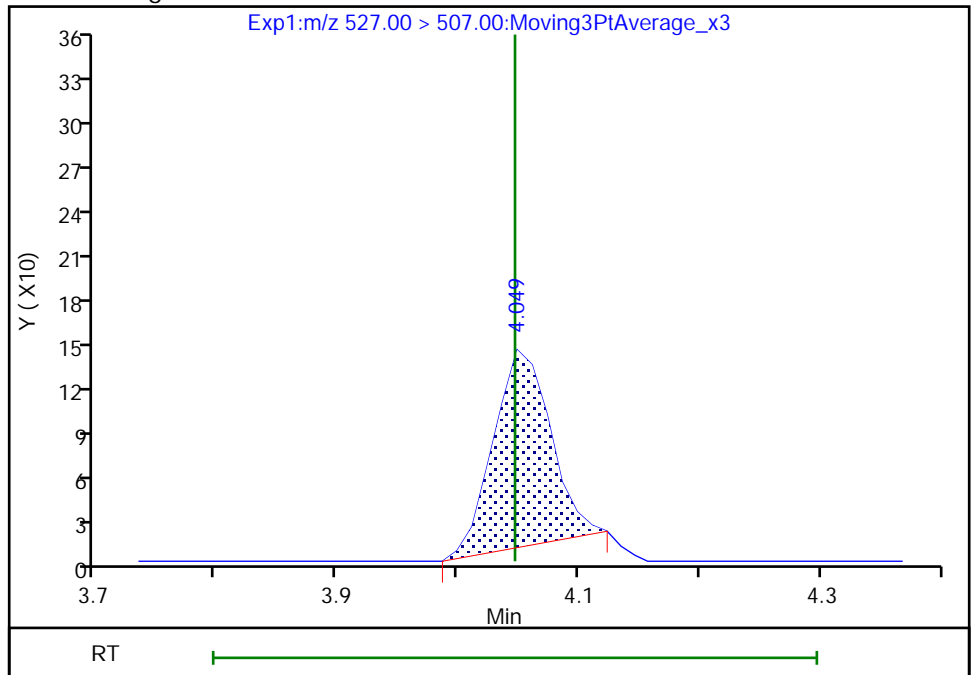
Not Detected  
Expected RT: 4.05

Processing Integration Results



Manual Integration Results

RT: 4.05  
Area: 431  
Amount: 0.037004  
Amount Units: ng/ml



Reviewer: manopan, 06-Aug-2019 16:26:14  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-145382/2-A  
 Matrix: Water Lab File ID: SC080119E003.d  
 Analysis Method: 537 (modified) Date Collected: \_\_\_\_\_  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 250 (mL) Date Analyzed: 08/02/2019 04:05  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	41.6		2.0	1.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.5		2.0	0.63
307-24-4	Perfluorohexanoic acid (PFHxA)	40.7		2.0	0.76
375-85-9	Perfluoroheptanoic acid (PFHpA)	43.2		2.0	0.91
335-67-1	Perfluorooctanoic acid (PFOA)	42.8		2.0	0.63
375-95-1	Perfluorononanoic acid (PFNA)	42.0		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	40.8		2.0	0.77
2058-94-8	Perfluoroundecanoic acid (PFUnA)	41.6		2.0	0.53
307-55-1	Perfluorododecanoic acid (PFDoA)	42.4		2.0	0.59
72629-94-8	Perfluorotridecanoic acid (PFTriA)	45.0		2.0	0.60
376-06-7	Perfluorotetradecanoic acid (PFTeA)	48.5		2.0	0.92
375-73-5	Perfluorobutanesulfonic acid (PFBS)	36.5		2.0	0.49
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	36.2		2.0	0.80
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	39.0		2.0	0.95
335-77-3	Perfluorodecanesulfonic acid (PFDS)	34.9		2.0	0.90
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	40.9		2.0	0.61
754-91-6	Perfluorooctanesulfonamide (FOSA)	42.1		10	10
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	51.4		20	1.7
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	52.6		20	1.5
27619-97-2	6:2 FTS	32.5		20	4.6
39108-34-4	8:2 FTS	26.1		20	2.9

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-145382/2-A  
 Matrix: Water Lab File ID: SC080119E003.d  
 Analysis Method: 537 (modified) Date Collected: \_\_\_\_\_  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 250 (mL) Date Analyzed: 08/02/2019 04:05  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	70		25-150
STL00992	13C4 PFBA	104		25-150
STL01893	13C5 PFPeA	102		25-150
STL00993	13C2 PFHxA	100		50-150
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	87		50-150
STL00995	13C5 PFNA	104		50-150
STL00996	13C2 PFDA	104		50-150
STL00997	13C2 PFUnA	93		50-150
STL00998	13C2 PFDoA	79		50-150
STL02116	13C2 PFTeDA	59		50-150
STL02337	13C3 PFBS	96		50-150
STL00994	18O2 PFHxS	93		50-150
STL00991	13C4 PFOS	99		50-150
STL02118	d3-NMeFOSAA	76		50-150
STL02117	d5-NEtFOSAA	71		50-150
STL02279	M2-6:2 FTS	102		25-150
STL02280	M2-8:2 FTS	117		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E003.d  
 Lims ID: LCS 200-145382/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 02-Aug-2019 04:05:24 ALS Bottle#: 50 Worklist Smp#: 3  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: LCS 200-145382/2-A  
 Misc. Info.: 200-0037095-003 Plate: 1 Rack: 4  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:35:42 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 16:30:53  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.708	1.699	0.009	0.508	3825149	52.1	104	12680	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.708	1.699	0.009	1.000	1464874	20.8		104	231	M
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	3505113	50.8	102	7408	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.067	2.067	0.0	1.000	1340001	19.8		98.8	72.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	3017217	44.5	95.8	628999	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.093	2.093	0.0	1.000	1205015	18.3	Target=1.90	103	2979	
298.90 > 99.00	2.093	2.093	0.0	1.000	600824		2.01(0.95-2.85)		611	
D 60 M2-4:2 FTS	329.00 > 81.00	2.417	2.417	0.0	0.719	326573	49.8	107	378	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	2.417	2.417	0.0	1.000	278561	16.7		89.3	2369	
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.731	3433939	50.1	100	7983	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.470	2.459	0.011	1.005	1439284	20.4	Target=13.23	102	378	
313.00 > 119.00	2.459	2.459	0.0	1.000	111809		12.87(6.61-19.84)		193	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.470	2.470	0.0	1.180	1150260	19.8	Target=2.73	106	3718	
349.00 > 99.00	2.470	2.470	0.0	1.180	395332		2.91(1.37-4.10)		931	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.596	2.596	0.0	0.772	269850	61.4	123	1793	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.596	2.596	0.0	1.000	201391	14.7		73.4	59.0	
D 11 18O2 PFHxS										
403.00 > 84.00	2.928	2.916	0.012	0.871	1739635	43.8		92.7	7578	
D 9 13C4 PFHpA										
367.00 > 322.00	2.928	2.928	0.0	0.871	3344607	49.8		99.7	10445	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.928	2.928	0.0	1.000	876402	18.1	Target=3.37	99.4	1143	M
399.00 > 99.00	2.928	2.928	0.0	1.000	252500		3.47(1.69-5.06)		305	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.928	2.928	0.0	1.000	1351941	21.6	Target=3.76	108	382	
363.00 > 169.00	2.928	2.928	0.0	1.000	377960		3.58(1.88-5.65)		1516	
77 DONA										
377.00 > 251.00	2.984	2.973	0.011	0.803	2798226	17.9	Target=2.72	95.0	1750	
377.00 > 85.00	2.984	2.973	0.011	0.803	1076833		2.60(1.36-4.07)		1585	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.344	3.335	0.009	0.994	398461	48.2		102	1072	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.344	3.336	0.008	1.000	233946	16.3		85.8	349	
D 14 13C4 PFOA										
417.00 > 372.00	3.363	3.344	0.019	1.000	3091289	43.6		87.2	6859	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.344	3.345	-0.001	0.900	772629	19.5	Target=4.80	102	2460	
449.00 > 99.00	3.344	3.345	-0.001	0.900	146951		5.26(2.40-7.20)		674	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.363	3.355	0.008	1.000	1440239	21.4	Target=2.84	107	162	
413.00 > 169.00	3.363	3.355	0.008	1.000	562525		2.56(1.42-4.25)		1828	
* 62 13C2 PFOA										
415.00 > 370.00	3.363	3.355	0.008		3897003	50.0			10336	
D 18 13C4 PFOS										
503.00 > 80.00	3.715	3.695	0.020	1.105	1571468	47.5		99.4	6691	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.715	3.703	0.012	1.000	636391	20.5	Target=4.33	110	3452	M
499.00 > 99.00	3.715	3.703	0.012	1.000	131995		4.82(2.16-6.49)		443	M
D 19 13C5 PFNA										
468.00 > 423.00	3.735	3.715	0.020	1.111	3348144	51.8		104	13121	
20 Perfluorononanoic acid										
463.00 > 419.00	3.735	3.723	0.012	1.000	1274814	21.0	Target=8.15	105	503	
463.00 > 169.00	3.735	3.723	0.012	1.000	155191		8.21(4.08-12.23)		1099	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.888	3.875	0.013	1.047	1090432	15.3		81.8	4333	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.011	4.010	0.001	1.080	498477	18.0	Target=2.42	93.5	2236	
549.00 > 99.00	4.011	4.010	0.001	1.080	214550		2.32(1.21-3.63)		308	
D 23 13C2 PFDA										
515.00 > 470.00	4.049	4.036	0.013	1.204	2686371	51.9		104	6434	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.061	4.036	0.025	1.208	427820	56.1		117	97208	08/13/2019

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.049	4.047	0.002	1.000	1060352	20.4	Target=9.58	102	486	
513.00 > 169.00	4.049	4.047	0.002	1.000	120641		8.79(4.79-14.37)		847	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.061	4.047	0.014	1.000	155725	13.1		68.1	2687	
D 21 13C8 FOSA										
506.00 > 78.00	4.074	4.061	0.013	1.211	2074448	34.9		69.9	5760	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.072	0.002	1.000	798010	21.1		105	3524	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.189	4.178	0.011	1.246	250379	37.9		75.8	1585	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.189	4.187	0.002	1.000	97367	25.7		128	248	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.284	4.283	0.001	1.153	380082	17.4	Target=2.64	90.5	2389	
599.00 > 99.00	4.284	4.283	0.001	1.153	142355		2.67(1.32-3.96)		677	
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.296	0.012	1.281	2191205	46.5		93.0	6171	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.320	4.307	0.013	1.003	782666	20.8	Target=7.95	104	314	
563.00 > 169.00	4.308	4.307	0.001	1.000	106072		7.38(3.98-11.93)		1038	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.308	0.012	1.285	259757	35.3		70.6	1422	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.332	4.319	0.013	1.003	87467	26.3		132	1415	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.404	4.403	0.001	1.186	1181842	10.9		57.6	4946	
D 36 13C2 PFDaA										
615.00 > 570.00	4.550	4.537	0.013	1.353	2005371	39.5		79.1	6639	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.550	4.549	0.001	1.000	868610	21.2	Target=7.49	106	85.7	
613.00 > 169.00	4.550	4.549	0.001	1.000	124274		6.99(3.75-11.24)		1039	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.769	4.760	0.009	1.048	827738	22.5	Target=5.71	112	102	
663.00 > 169.00	4.769	4.760	0.009	1.048	181627		4.56(2.85-8.56)		1219	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.973	4.965	0.007	1.479	2057146	29.5		58.9	7300	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.973	4.972	0.0	1.000	132899	24.3	Target=1.02	121	1959	
713.00 > 219.00	4.973	4.972	0.0	1.000	124114		1.07(0.51-1.54)		1441	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.389	5.390	-0.001	1.603	2116397	34.1		68.1	4723	

## QC Flag Legend

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E003.d

Injection Date: 02-Aug-2019 04:05:24

Instrument ID: LC812

Lims ID: LCS 200-145382/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 50

Worklist Smp#: 3

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

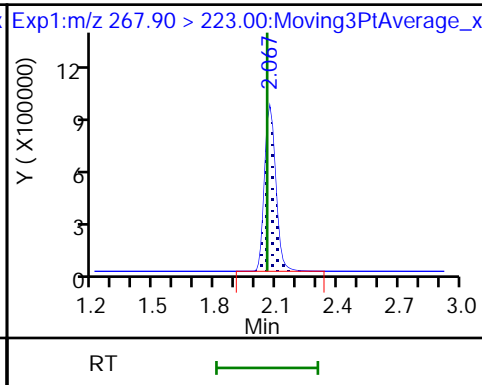
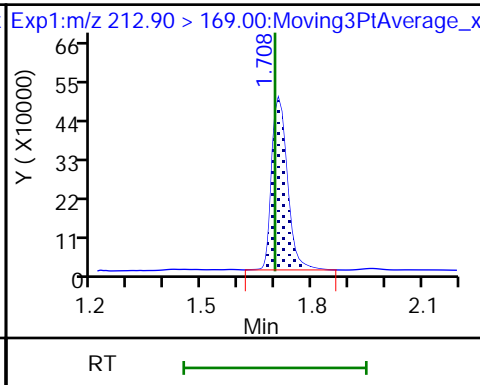
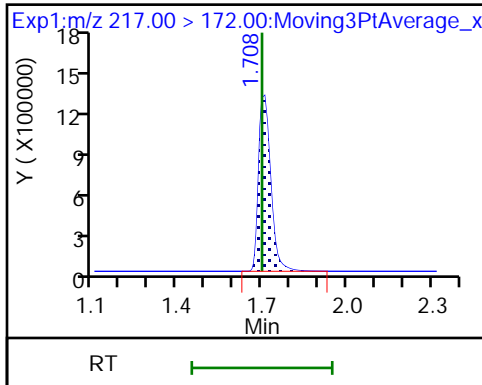
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

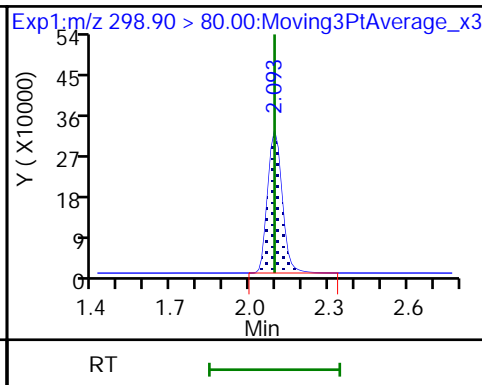
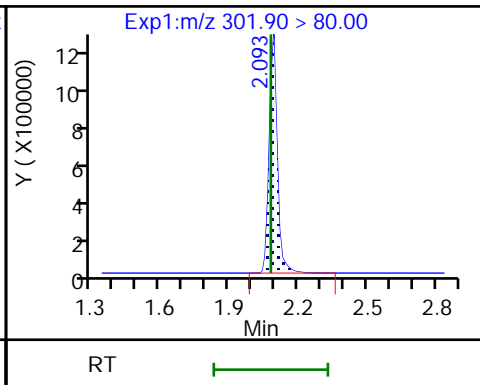
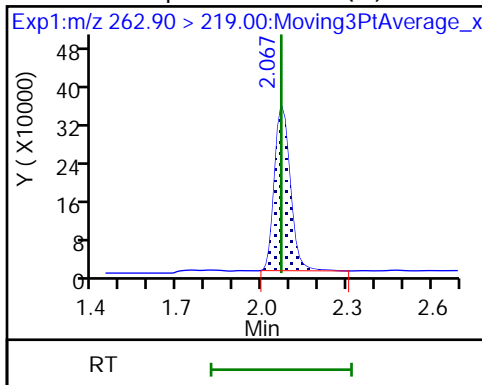
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

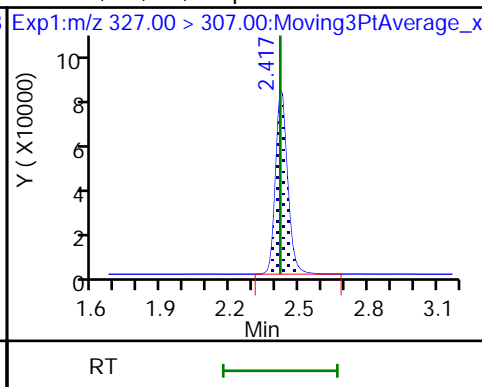
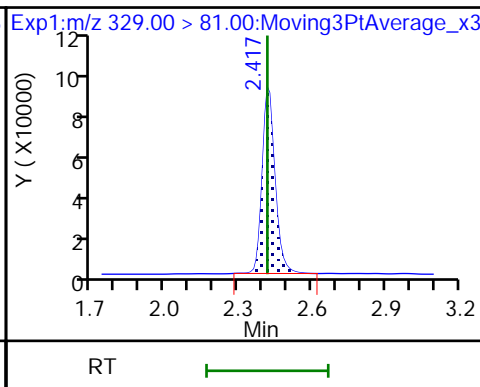
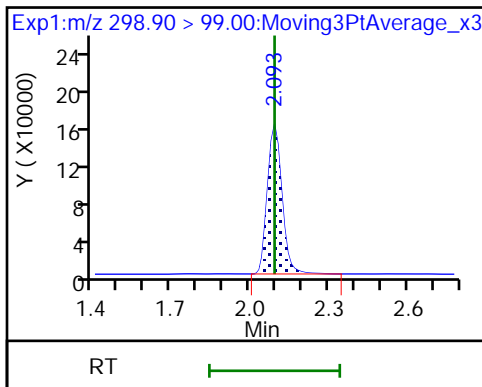
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

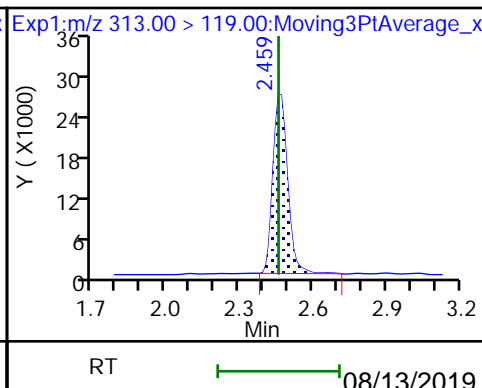
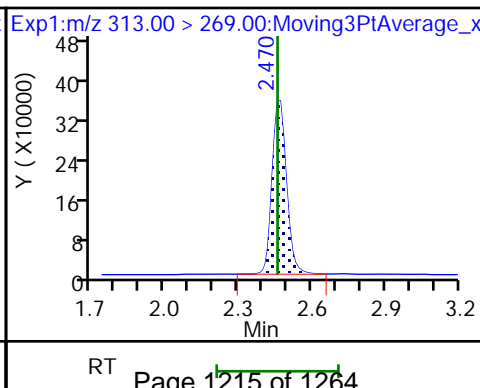
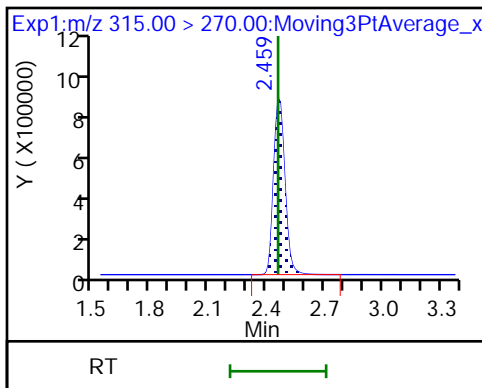
61 1H,1H,2H,2H-perfluorohexanesulfoni

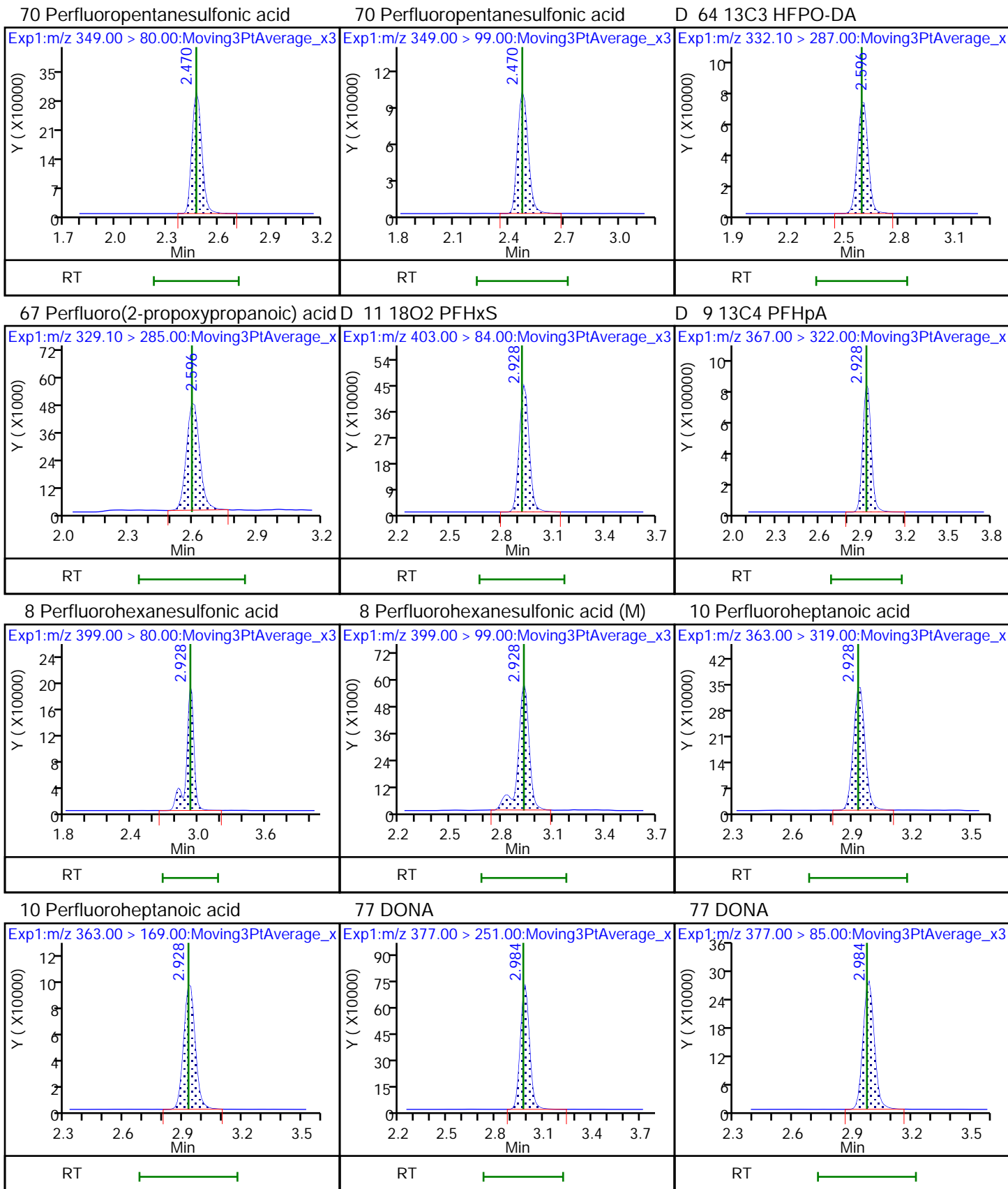


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

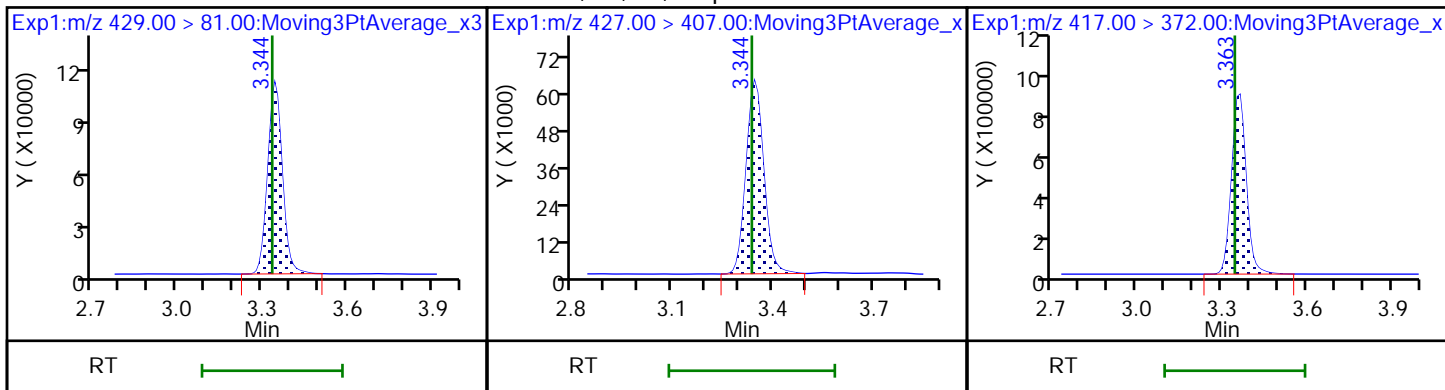
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

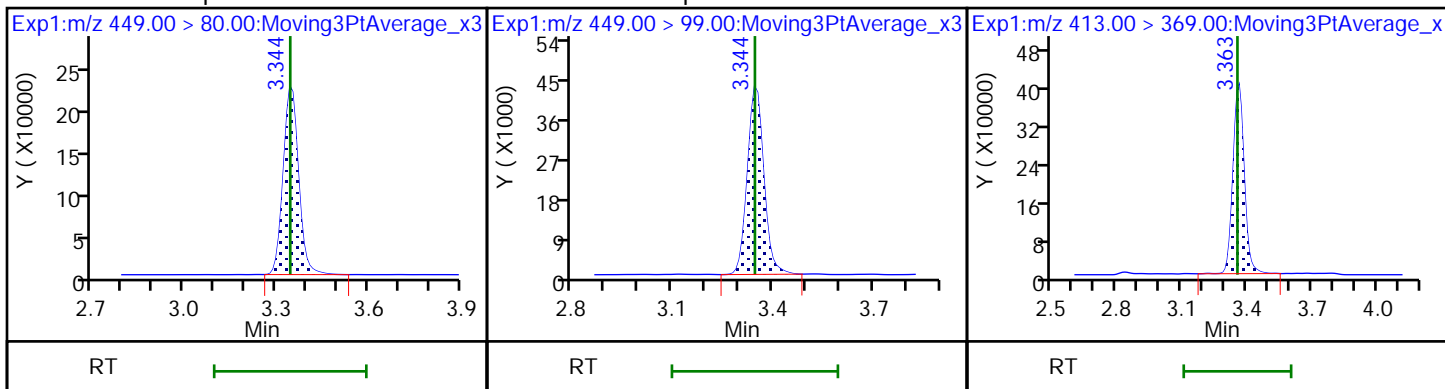
13 1H,1H,2H,2H-perfluorooctanesulfonD 14 13C4 PFOA



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

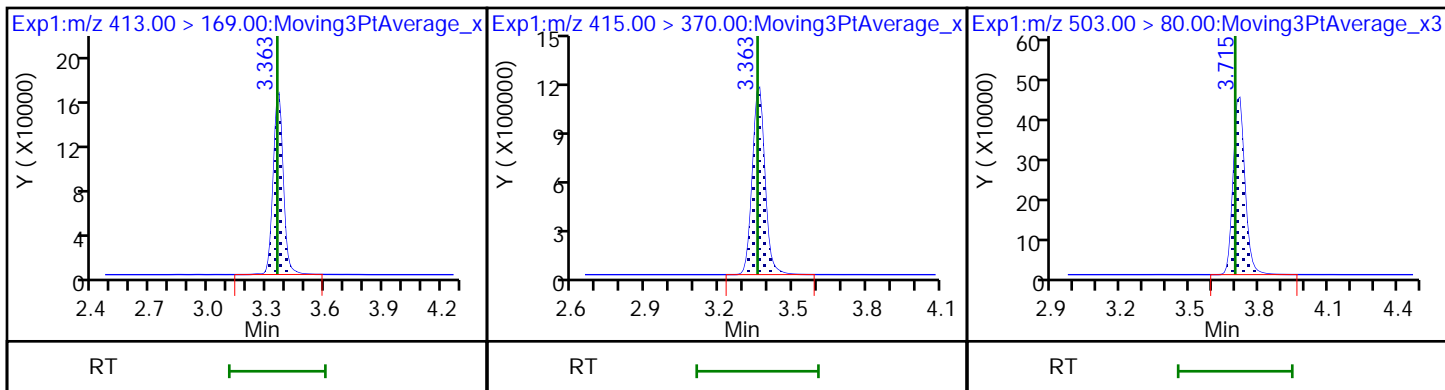
15 Perfluorooctanoic acid



15 Perfluorooctanoic acid

\* 62 13C2 PFOA

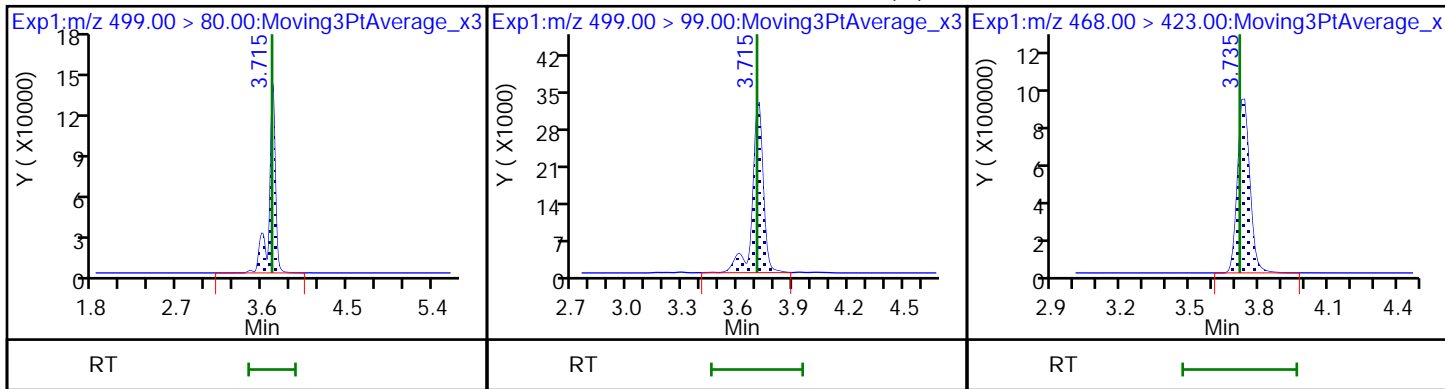
D 18 13C4 PFOS

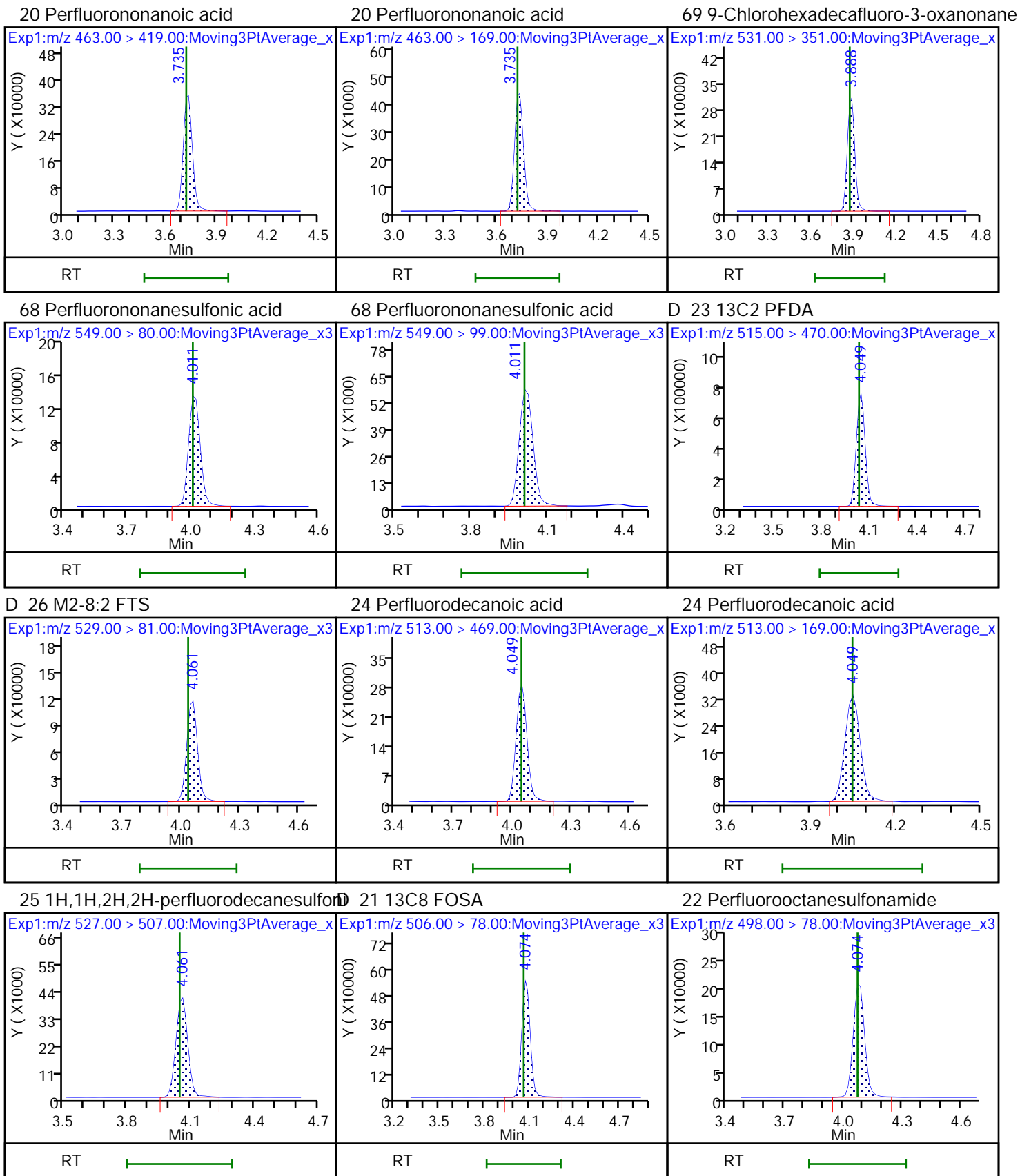


17 Perfluorooctanesulfonic acid

17 Perfluorooctanesulfonic acid (M)

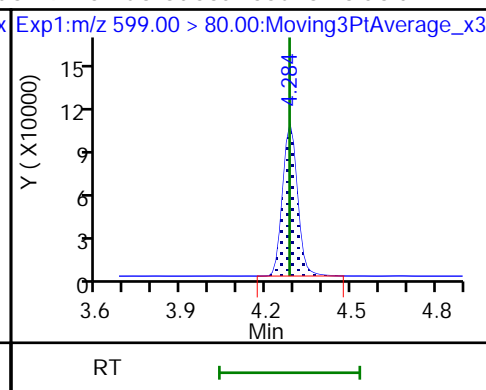
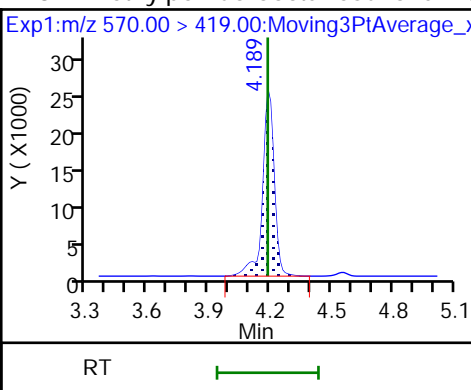
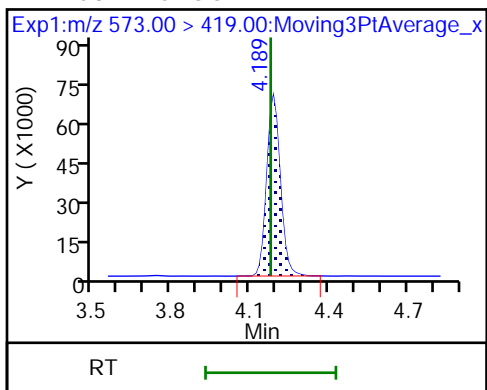
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

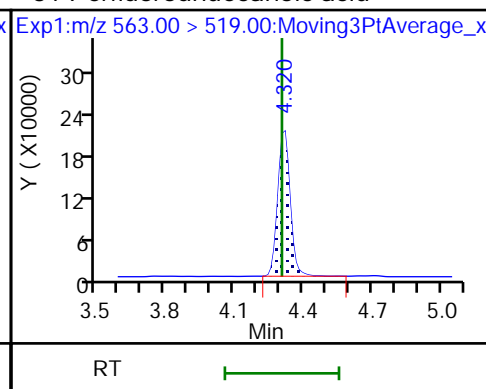
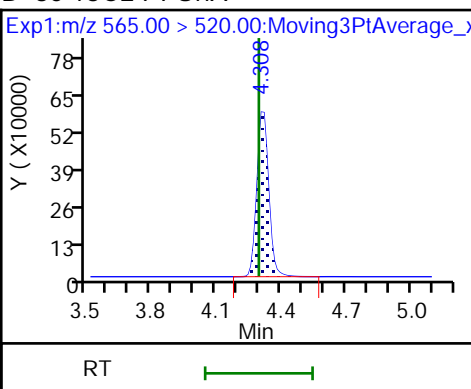
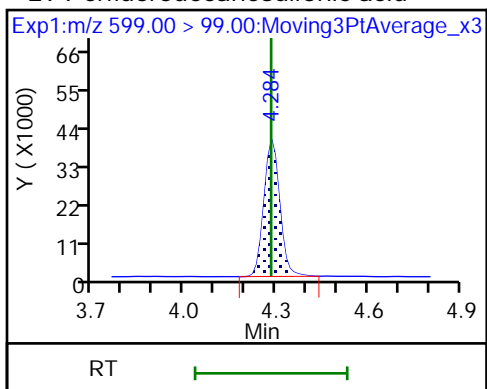
28 N-methylperfluorooctanesulfonamido 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

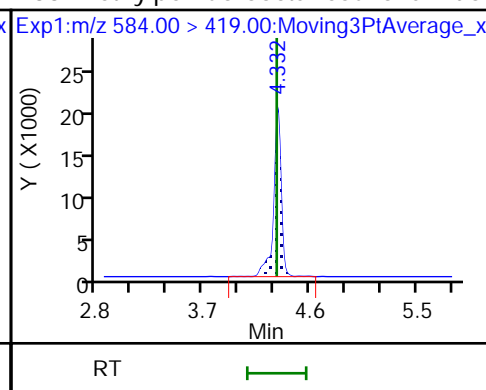
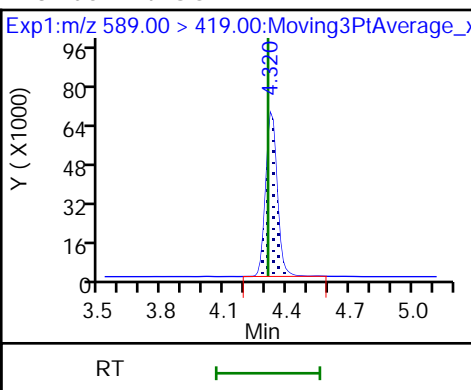
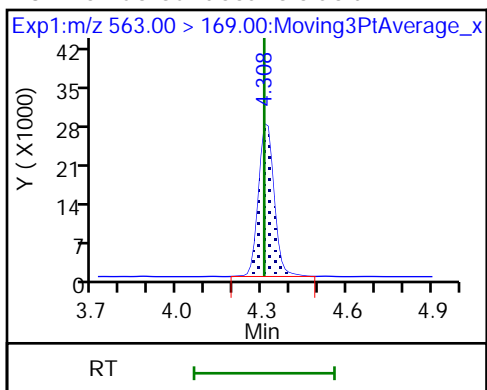
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

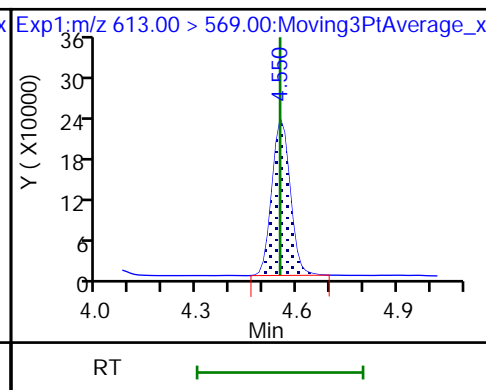
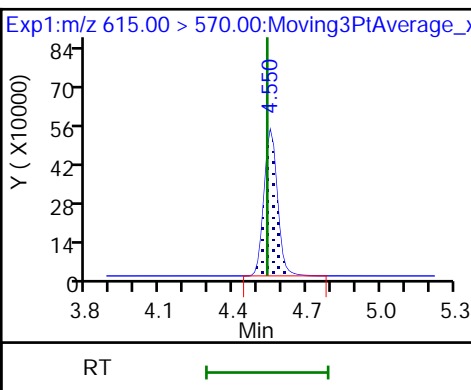
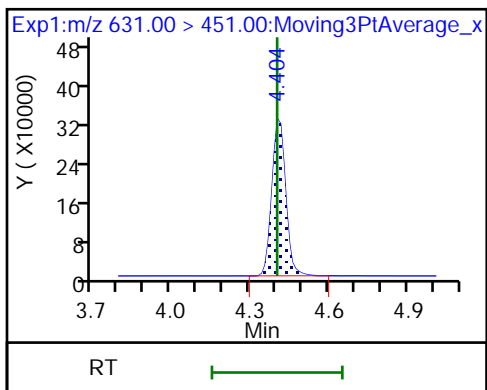
33 N-ethylperfluorooctanesulfonamido



66 11-Chloroeicosafuoro-3-oxaundeca

D 36 13C2 PFDoA

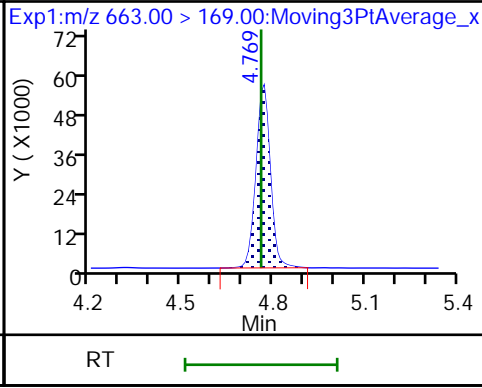
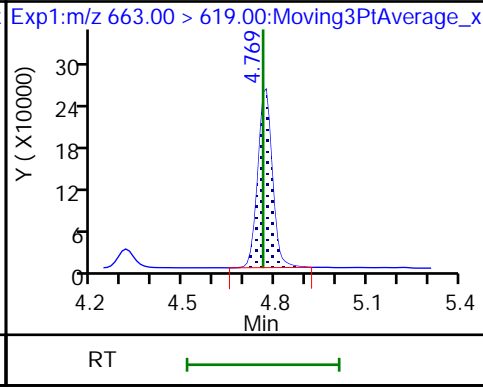
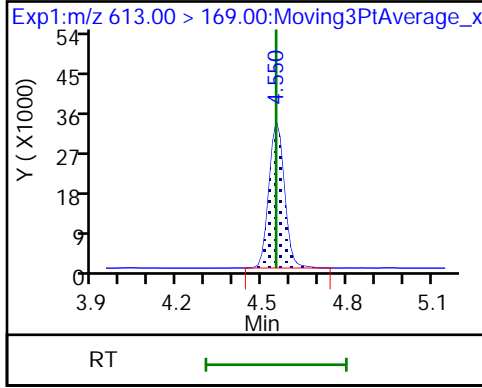
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

41 Perfluorotridecanoic acid

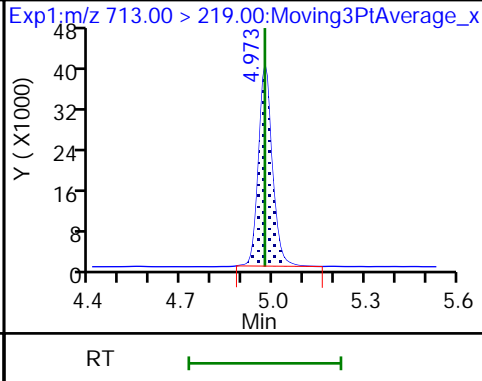
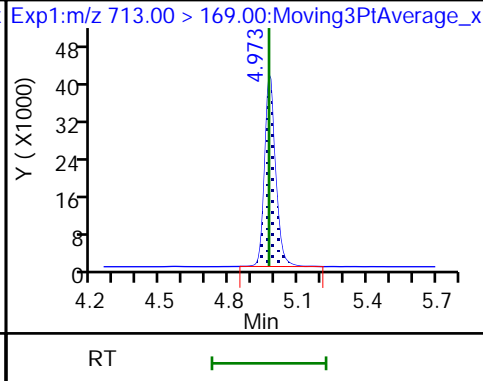
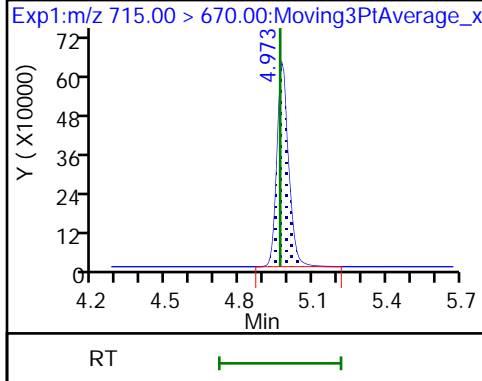
41 Perfluorotridecanoic acid



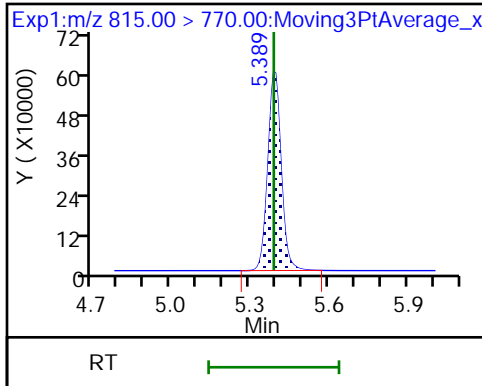
D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA



Eurofins TestAmerica, Burlington

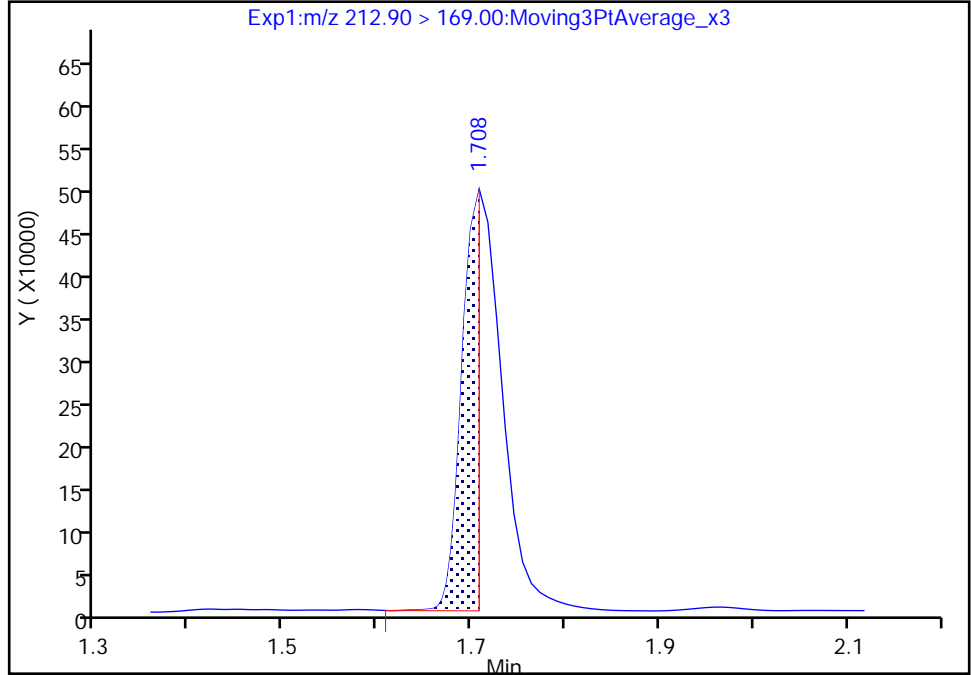
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E003.d  
Injection Date: 02-Aug-2019 04:05:24 Instrument ID: LC812  
Lims ID: LCS 200-145382/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 50 Worklist Smp#: 3  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

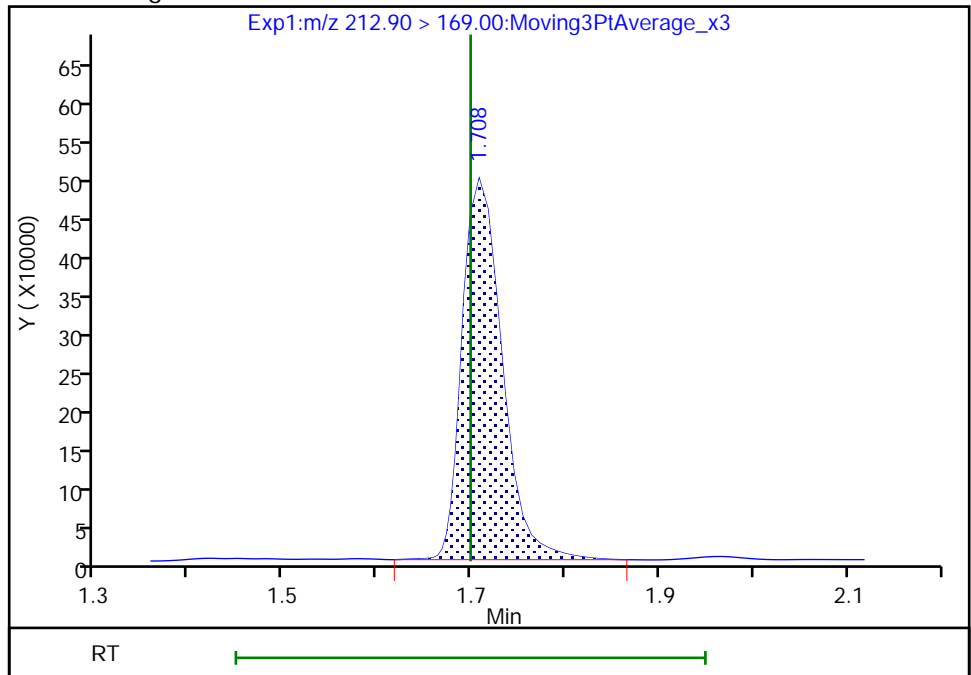
RT: 1.71  
Area: 613856  
Amount: 8.706051  
Amount Units: ng/ml

Processing Integration Results



RT: 1.71  
Area: 1464874  
Amount: 20.775667  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:30:00  
Audit Action: Manually Integrated

Audit Reason: Isomers

Euofins TestAmerica, Burlington

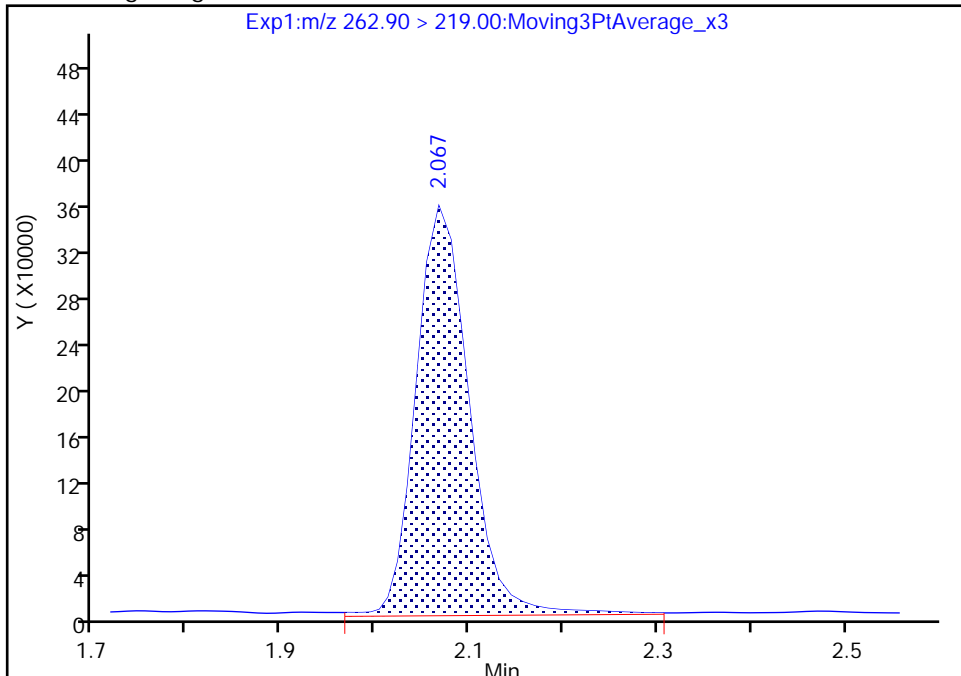
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E003.d  
Injection Date: 02-Aug-2019 04:05:24 Instrument ID: LC812  
Lims ID: LCS 200-145382/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 50 Worklist Smp#: 3  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

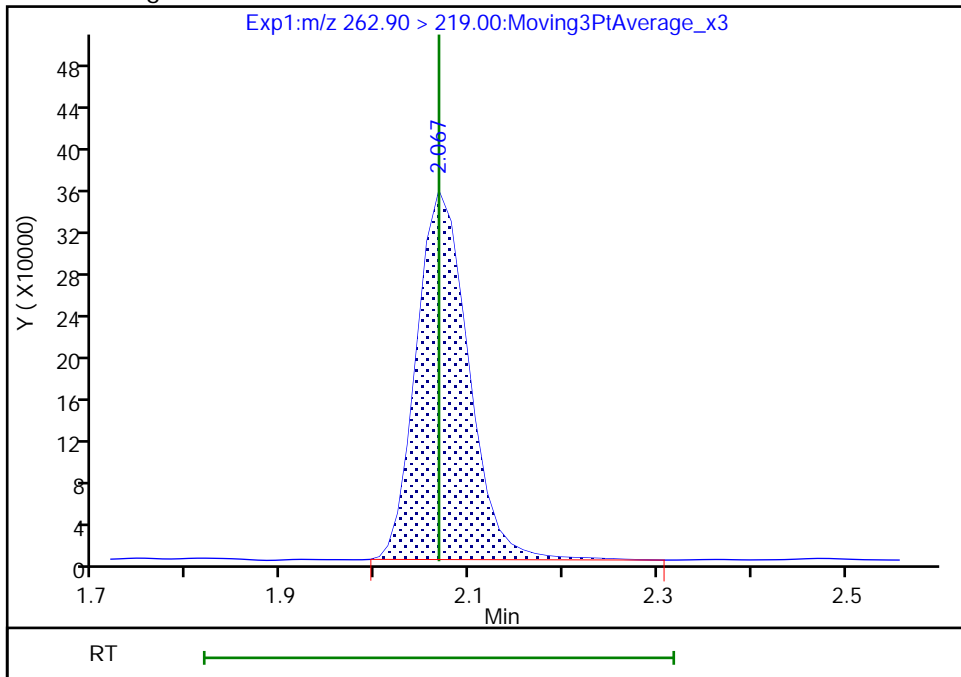
RT: 2.07  
Area: 1388163  
Amount: 20.463661  
Amount Units: ng/ml

Processing Integration Results



RT: 2.07  
Area: 1340001  
Amount: 19.753679  
Amount Units: ng/ml

Manual Integration Results



Reviewer: murrayjw, 12-Aug-2019 08:57:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

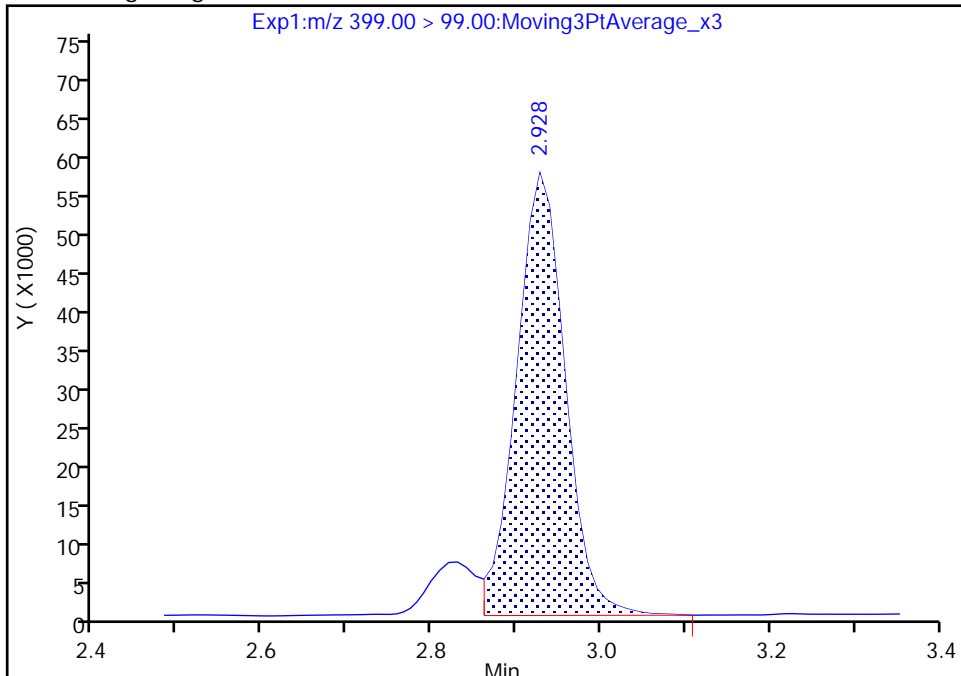
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E003.d  
Injection Date: 02-Aug-2019 04:05:24 Instrument ID: LC812  
Lims ID: LCS 200-145382/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 50 Worklist Smp#: 3  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

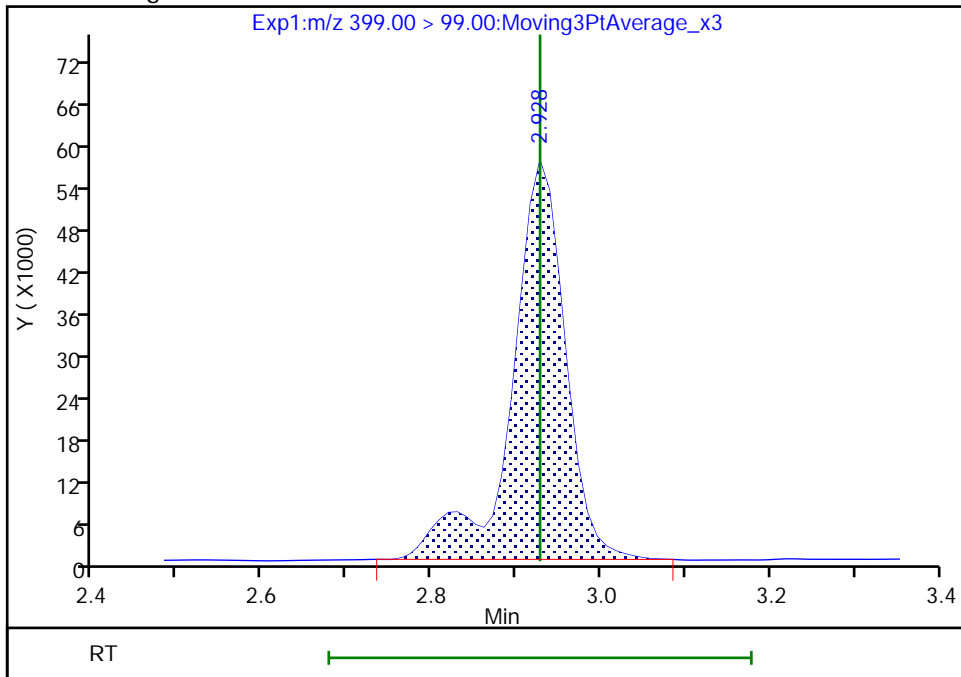
RT: 2.93  
Area: 228737  
Amount: 18.082553  
Amount Units: ng/ml

Processing Integration Results



RT: 2.93  
Area: 252500  
Amount: 18.082553  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:29:52  
Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

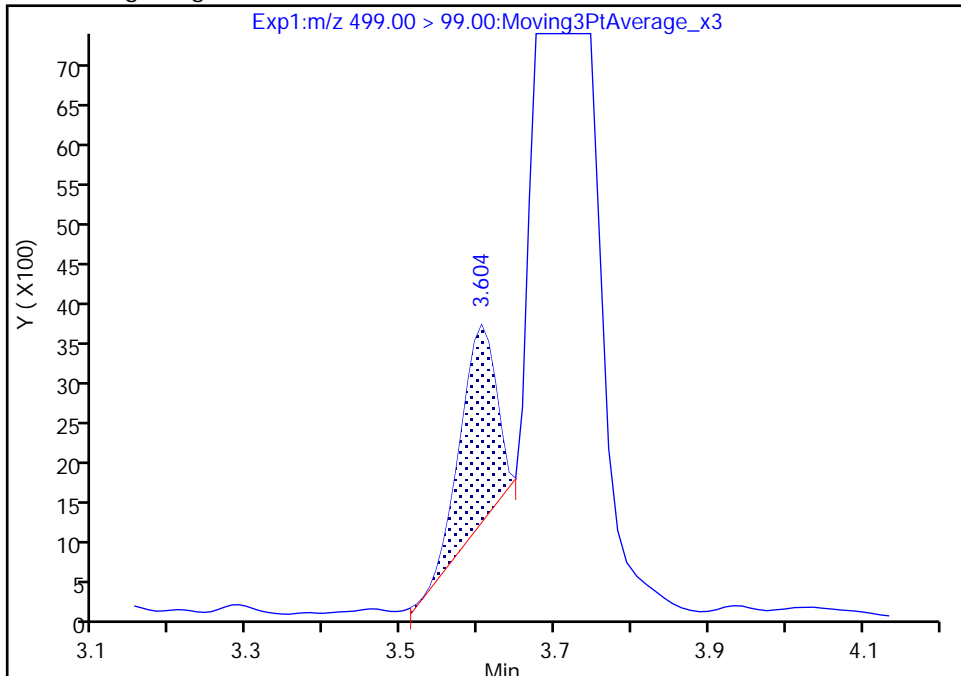
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E003.d  
Injection Date: 02-Aug-2019 04:05:24 Instrument ID: LC812  
Lims ID: LCS 200-145382/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 50 Worklist Smp#: 3  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

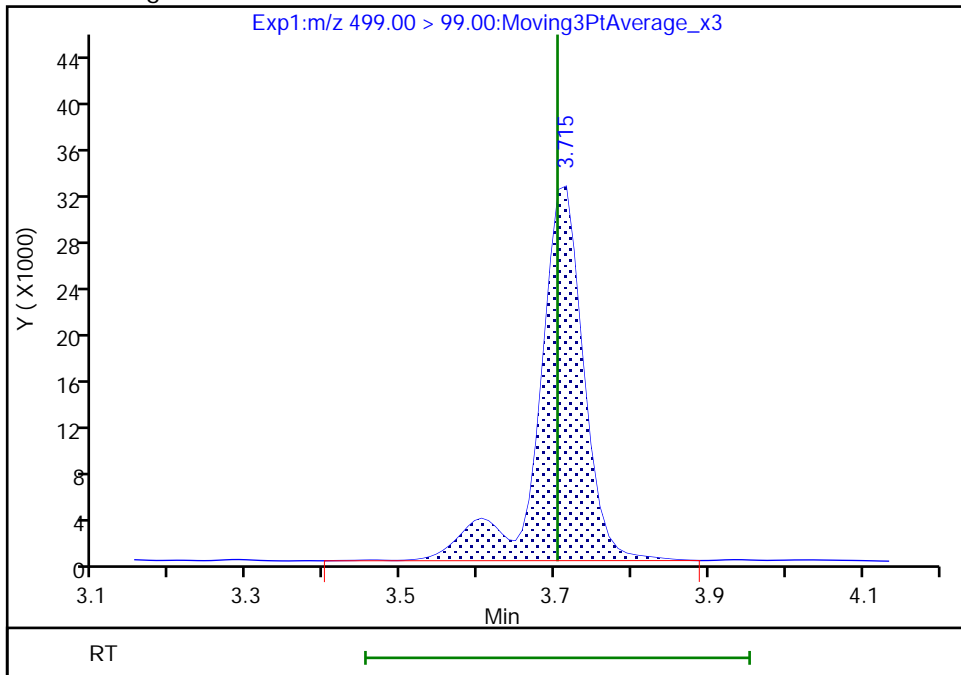
RT: 3.60  
Area: 8046  
Amount: 20.451175  
Amount Units: ng/ml

Processing Integration Results



RT: 3.71  
Area: 131995  
Amount: 20.451175  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 16:30:26  
Audit Action: Manually Integrated

Audit Reason: Isomers

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MS Lab Sample ID: 480-156213-14 MS  
 Matrix: Water Lab File ID: SC080119E016.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 13:15  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 272.7 (mL) Date Analyzed: 08/02/2019 05:49  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	40.2		1.8	0.92
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.9		1.8	0.58
307-24-4	Perfluorohexanoic acid (PFHxA)	38.3		1.8	0.70
375-85-9	Perfluoroheptanoic acid (PFHpA)	41.0		1.8	0.83
335-67-1	Perfluorooctanoic acid (PFOA)	37.9		1.8	0.58
375-95-1	Perfluorononanoic acid (PFNA)	36.9		1.8	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	39.5		1.8	0.71
2058-94-8	Perfluoroundecanoic acid (PFUnA)	35.6		1.8	0.49
307-55-1	Perfluorododecanoic acid (PFDoA)	37.8		1.8	0.54
72629-94-8	Perfluorotridecanoic acid (PFTriA)	42.7		1.8	0.55
376-06-7	Perfluorotetradecanoic acid (PFTeA)	44.5		1.8	0.84
375-73-5	Perfluorobutanesulfonic acid (PFBS)	32.5		1.8	0.45
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.4		1.8	0.73
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	38.3		1.8	0.87
335-77-3	Perfluorodecanesulfonic acid (PFDS)	35.1		1.8	0.83
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	38.4		1.8	0.56
754-91-6	Perfluorooctanesulfonamide (FOSA)	42.6		9.2	9.2
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	43.6		18	1.6
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	45.7		18	1.4
27619-97-2	6:2 FTS	26.9		18	4.2
39108-34-4	8:2 FTS	25.6		18	2.7

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MS Lab Sample ID: 480-156213-14 MS  
 Matrix: Water Lab File ID: SC080119E016.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 13:15  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 272.7 (mL) Date Analyzed: 08/02/2019 05:49  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	74		25-150
STL00992	13C4 PFBA	82		25-150
STL01893	13C5 PFPeA	88		25-150
STL00993	13C2 PFHxA	88		50-150
STL01892	13C4 PFHpA	90		50-150
STL00990	13C4 PFOA	85		50-150
STL00995	13C5 PFNA	86		50-150
STL00996	13C2 PFDA	87		50-150
STL00997	13C2 PFUnA	86		50-150
STL00998	13C2 PFDoA	83		50-150
STL02116	13C2 PFTeDA	67		50-150
STL02337	13C3 PFBS	93		50-150
STL00994	18O2 PFHxS	94		50-150
STL00991	13C4 PFOS	89		50-150
STL02118	d3-NMeFOSAA	64		50-150
STL02117	d5-NEtFOSAA	67		50-150
STL02279	M2-6:2 FTS	104		25-150
STL02280	M2-8:2 FTS	111		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E016.d  
 Lims ID: 480-156213-F-14-B MS  
 Client ID: 356023-MW6B  
 Sample Type: MS  
 Inject. Date: 02-Aug-2019 05:49:54 ALS Bottle#: 9 Worklist Smp#: 16  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-14-B MS  
 Misc. Info.: 200-0037095-016 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:20:44  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.505	3374551	41.1	82.1	12039	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.005	1362896	21.9	110	242	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	3406953	44.1	88.3	7514	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	1399099	21.2	106	78.7	
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	3276772	43.2	93.0	309558	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	1271344	17.7	Target=1.90	100	386
	298.90 > 99.00	2.093	2.093	0.0	1.000	647340		1.96(0.95-2.85)		573
D 60 M2-4:2 FTS	329.00 > 81.00	2.417	2.417	0.0	0.719	336652	45.9	98.3	217	
61 1H,1H,2H,2H-perfluorohexanesulfoni	327.00 > 307.00	2.417	2.417	0.0	1.000	291216	16.9	90.5	2183	
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.731	3357892	43.8	87.6	7592	
6 Perfluorohexanoic acid	313.00 > 269.00	2.459	2.459	0.0	1.000	1444171	20.9	Target=13.23	104	288
	313.00 > 119.00	2.459	2.459	0.0	1.000	118424		12.19(6.61-19.84)		157
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.470	2.470	0.0	1.180	1232196	19.5	Target=2.73	104	870
	349.00 > 99.00	2.470	2.470	0.0	1.180	417657		2.95(1.37-4.10)		597
D 64 13C3 HFPO-DA	332.10 > 287.00	2.608	2.596	0.012	0.776	213516	43.4	86.8	1204	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.596	2.596	0.0	0.995	219748	20.2		101	66.0	
D 11 18O2 PFHxS										
403.00 > 84.00	2.928	2.916	0.012	0.871	1968265	44.3		93.7	4666	
D 9 13C4 PFHpA										
367.00 > 322.00	2.928	2.928	0.0	0.871	3367051	44.8		89.7	8404	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.928	2.928	0.0	1.000	998367	18.2	Target=3.37	100	662	M
399.00 > 99.00	2.928	2.928	0.0	1.000	280770		3.56(1.69-5.06)		304	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.928	2.928	0.0	1.000	1409495	22.3	Target=3.76	112	333	
363.00 > 169.00	2.939	2.928	0.011	1.004	374728		3.76(1.88-5.65)		1252	
77 DONA										
377.00 > 251.00	2.984	2.973	0.011	0.803	2939623	18.7	Target=2.72	99.4	2477	
377.00 > 85.00	2.984	2.973	0.011	0.803	1130156		2.60(1.36-4.07)		1589	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.344	3.335	0.009	0.994	457573	49.5		104	769	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.344	3.336	0.008	1.000	242102	14.7		77.3	599	
D 14 13C4 PFOA										
417.00 > 372.00	3.363	3.344	0.019	1.000	3362635	42.4		84.8	11119	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.344	3.345	-0.001	0.900	831254	20.9	Target=4.80	110	1791	
449.00 > 99.00	3.344	3.345	-0.001	0.900	166350		5.00(2.40-7.20)		651	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.363	3.355	0.008	1.000	1513228	20.7	Target=2.84	103	184	
413.00 > 169.00	3.363	3.355	0.008	1.000	579872		2.61(1.42-4.25)		1764	
* 62 13C2 PFOA										
415.00 > 370.00	3.363	3.355	0.008		4360226	50.0			10310	
D 18 13C4 PFOS										
503.00 > 80.00	3.715	3.695	0.020	1.105	1578648	42.7		89.3	3922	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.705	3.703	0.002	0.997	655277	21.0	Target=4.33	113	1677	
499.00 > 99.00	3.705	3.703	0.002	0.997	136880		4.79(2.16-6.49)		513	
D 19 13C5 PFNA										
468.00 > 423.00	3.724	3.715	0.009	1.108	3128312	43.2		86.5	12986	
20 Perfluorononanoic acid										
463.00 > 419.00	3.724	3.723	0.001	1.000	1141200	20.1	Target=8.15	101	405	
463.00 > 169.00	3.724	3.723	0.001	1.000	146745		7.78(4.08-12.23)		1816	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.876	3.875	0.001	1.044	1118257	15.6		83.5	3922	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.011	4.010	0.001	1.080	533420	19.1	Target=2.42	99.6	2757	
549.00 > 99.00	4.011	4.010	0.001	1.080	229695		2.32(1.21-3.63)		585	
D 23 13C2 PFDA										
515.00 > 470.00	4.049	4.036	0.013	1.204	2508053	43.3		86.7	10998	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.049	4.036	0.013	1.204	454827	43.3		111	1230	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.049	4.047	0.002	1.000	1047127	21.6	Target=9.58	108	461	
513.00 > 169.00	4.049	4.047	0.002	1.000	124691		8.40(4.79-14.37)		896	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.049	4.047	0.002	1.000	176996	14.0		72.8	2367	
D 21 13C8 FOSA										
506.00 > 78.00	4.074	4.061	0.013	1.211	2462389	37.1		74.1	5774	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.074	4.072	0.002	1.000	1044110	23.2		116	5427	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.189	4.178	0.011	1.246	238284	32.2		64.5	1223	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.189	4.187	0.002	1.000	85758	23.8		119	383	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.284	4.283	0.001	1.153	419187	19.2	Target=2.64	99.3	2054	
599.00 > 99.00	4.284	4.283	0.001	1.153	167946		2.50(1.32-3.96)		792	
D 30 13C2 PFUnA										
565.00 > 520.00	4.308	4.296	0.012	1.281	2264939	43.0		85.9	29000	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.308	4.307	0.001	1.000	754369	19.4	Target=7.95	97.0	328	
563.00 > 169.00	4.308	4.307	0.001	1.000	104445		7.22(3.98-11.93)		768	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.320	4.308	0.012	1.285	278005	33.7		67.5	897	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.320	4.319	0.001	1.000	88679	24.9		125	895	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.404	4.403	0.001	1.186	1410940	12.9		68.5	9581	
D 36 13C2 PFDoA										
615.00 > 570.00	4.550	4.537	0.013	1.353	2364690	41.7		83.3	6772	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.550	4.549	0.001	1.000	997070	20.6	Target=7.49	103	92.3	
613.00 > 169.00	4.550	4.549	0.001	1.000	140689		7.09(3.75-11.24)		1306	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.760	4.760	0.0	1.046	1010841	23.3	Target=5.71	116	115	
663.00 > 169.00	4.760	4.760	0.0	1.046	202476		4.99(2.85-8.56)		1311	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.965	4.965	0.0	1.477	2609171	33.4		66.8	8962	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.972	4.972	0.0	1.001	168508	24.3	Target=1.02	121	1540	
713.00 > 219.00	4.965	4.972	-0.007	1.000	167505		1.01(0.51-1.54)		1746	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.398	5.390	0.008	1.001	24960	0.1023	Target=5.23	0.0	8.2	
813.00 > 169.00	5.398	5.390	0.008	1.001	5304		4.71(2.62-7.85)		127	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.390	5.390	0.0	1.603	2670089	38.4		76.8	6269	

## QC Flag Legend

### Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E016.d

Injection Date: 02-Aug-2019 05:49:54

Instrument ID: LC812

Lims ID: 480-156213-F-14-B MS

Client ID: 356023-MW6B

Operator ID: lc812tech

ALS Bottle#: 9

Worklist Smp#: 16

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

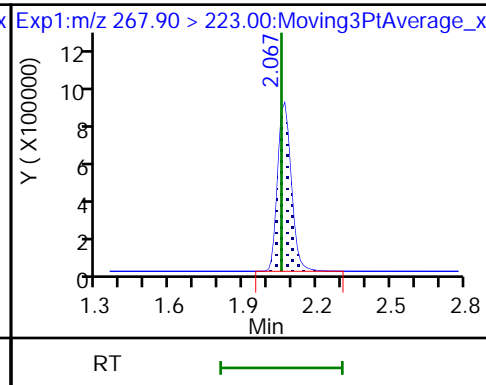
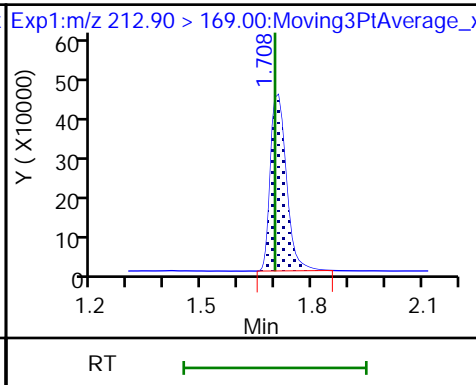
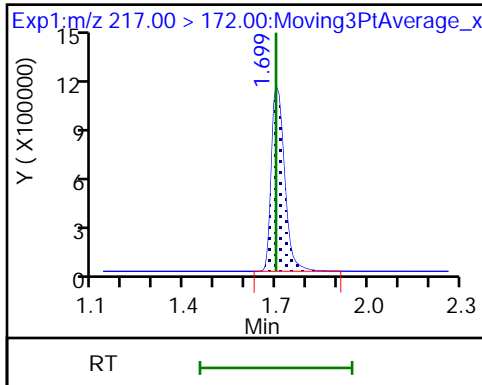
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

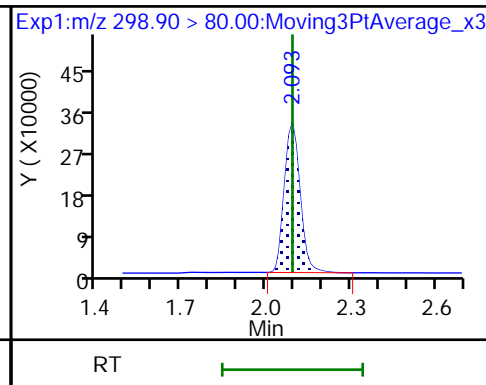
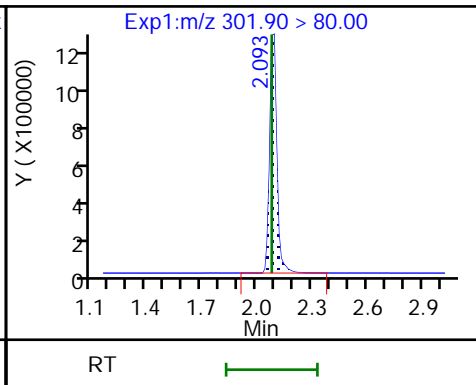
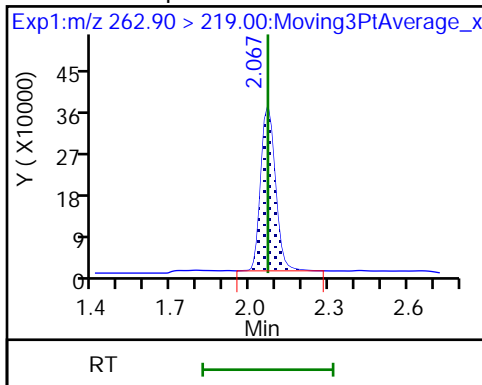
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBs

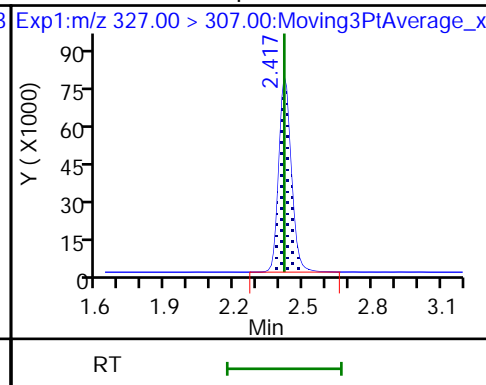
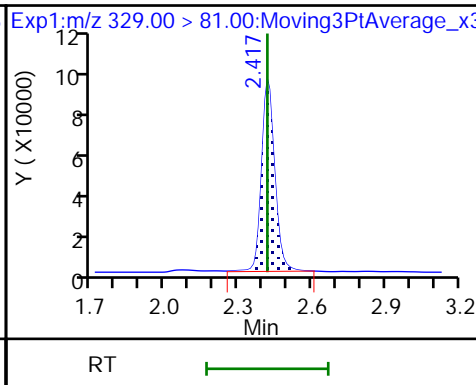
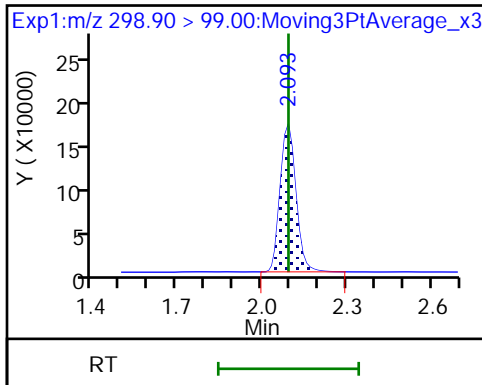
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

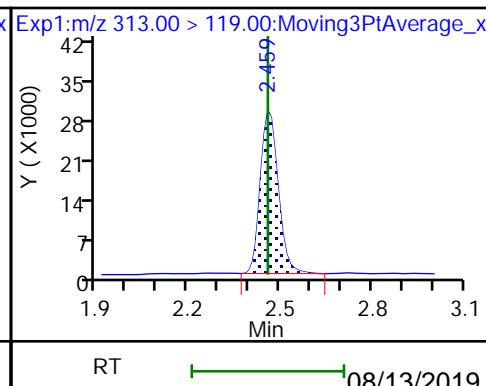
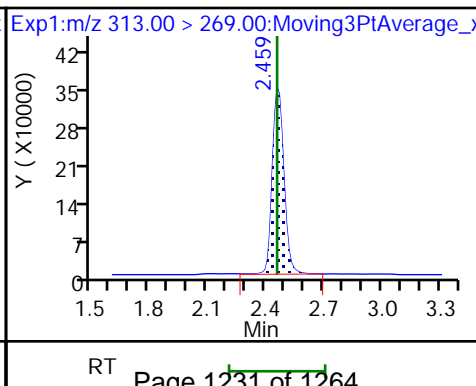
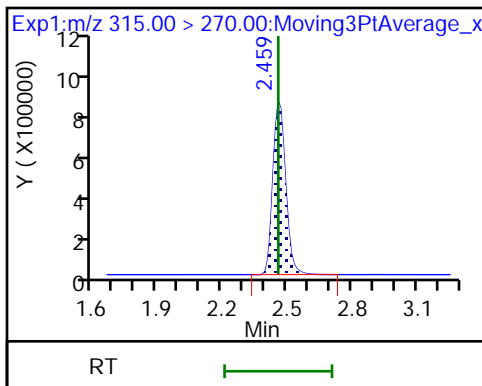
61 1H,1H,2H,2H-perfluorohexanesulfoni

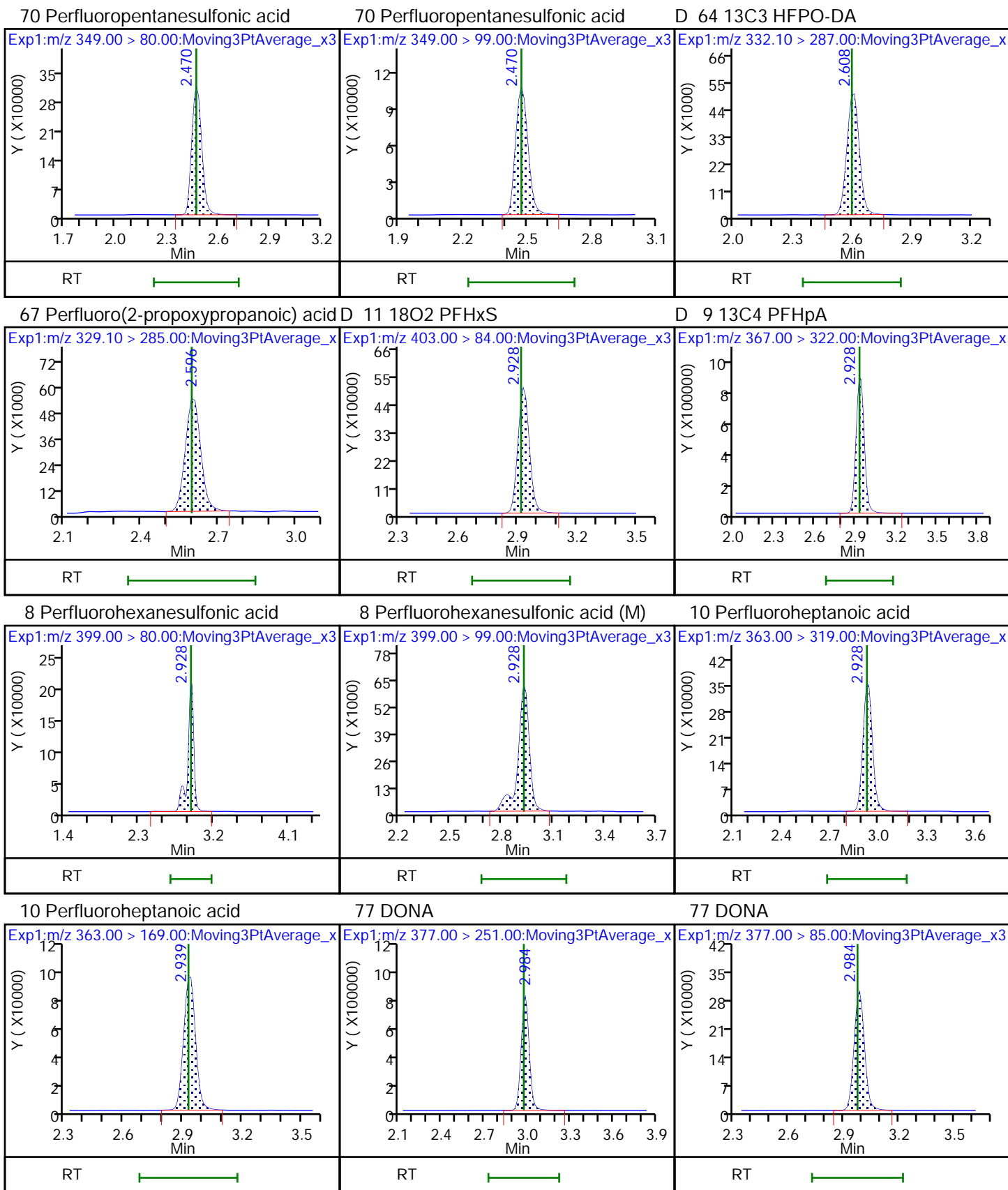


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

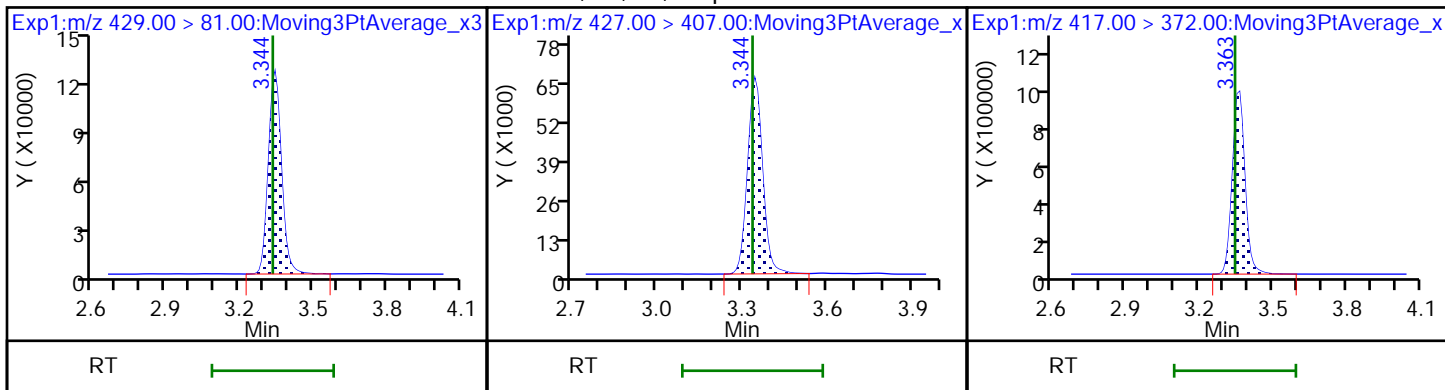
6 Perfluorohexanoic acid





D 12 M2-6:2 FTS

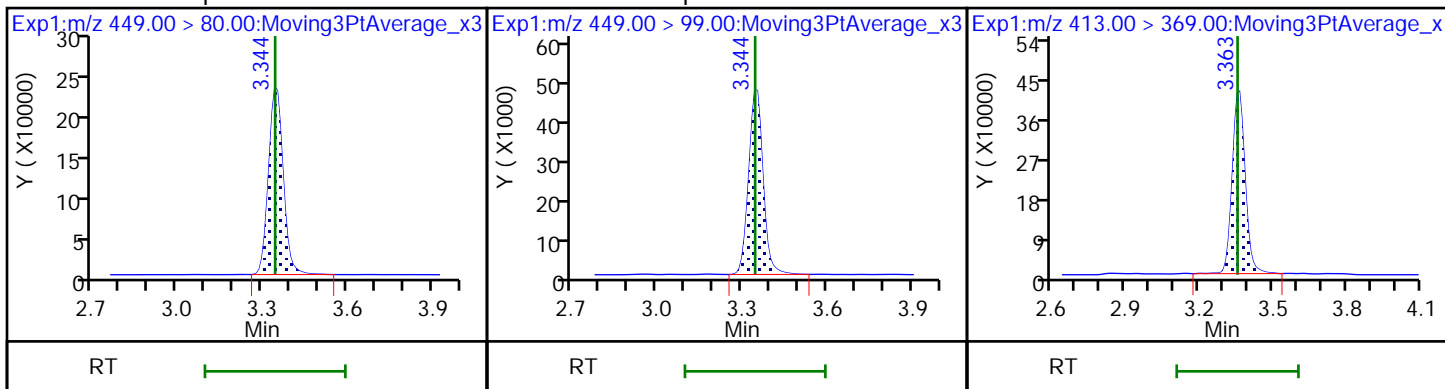
13 1H,1H,2H,2H-perfluorooctanesulfonD 14 13C4 PFOA



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

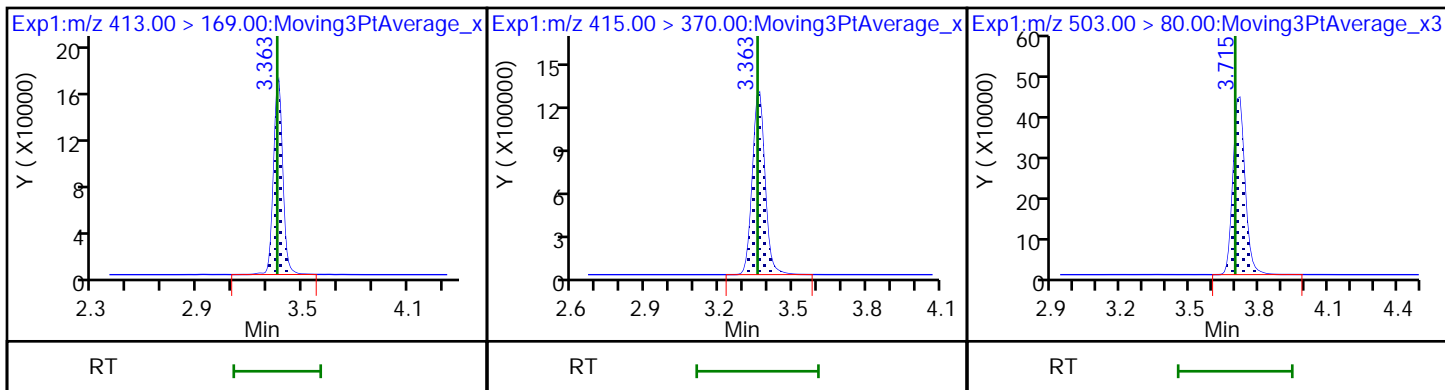
15 Perfluorooctanoic acid



15 Perfluorooctanoic acid

\* 62 13C2 PFOA

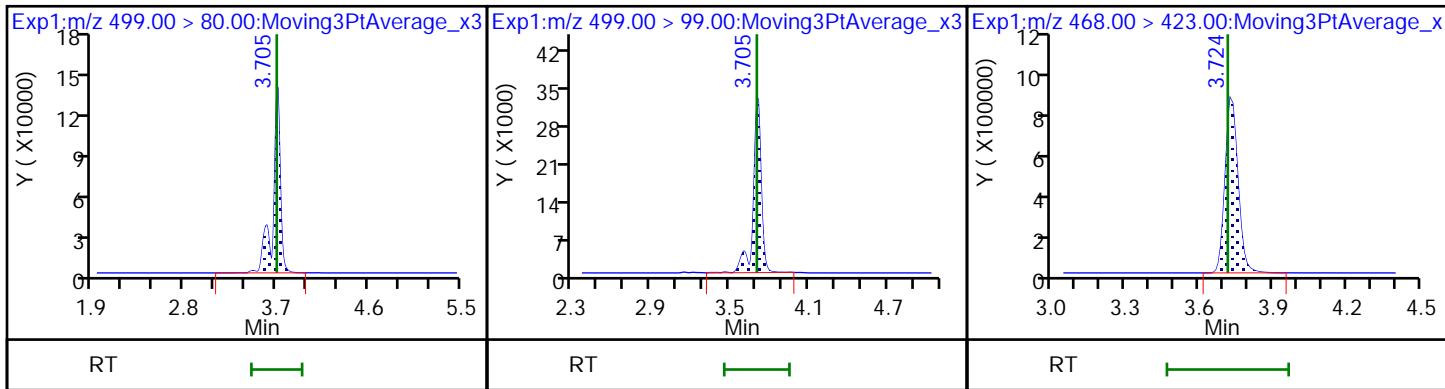
D 18 13C4 PFOS

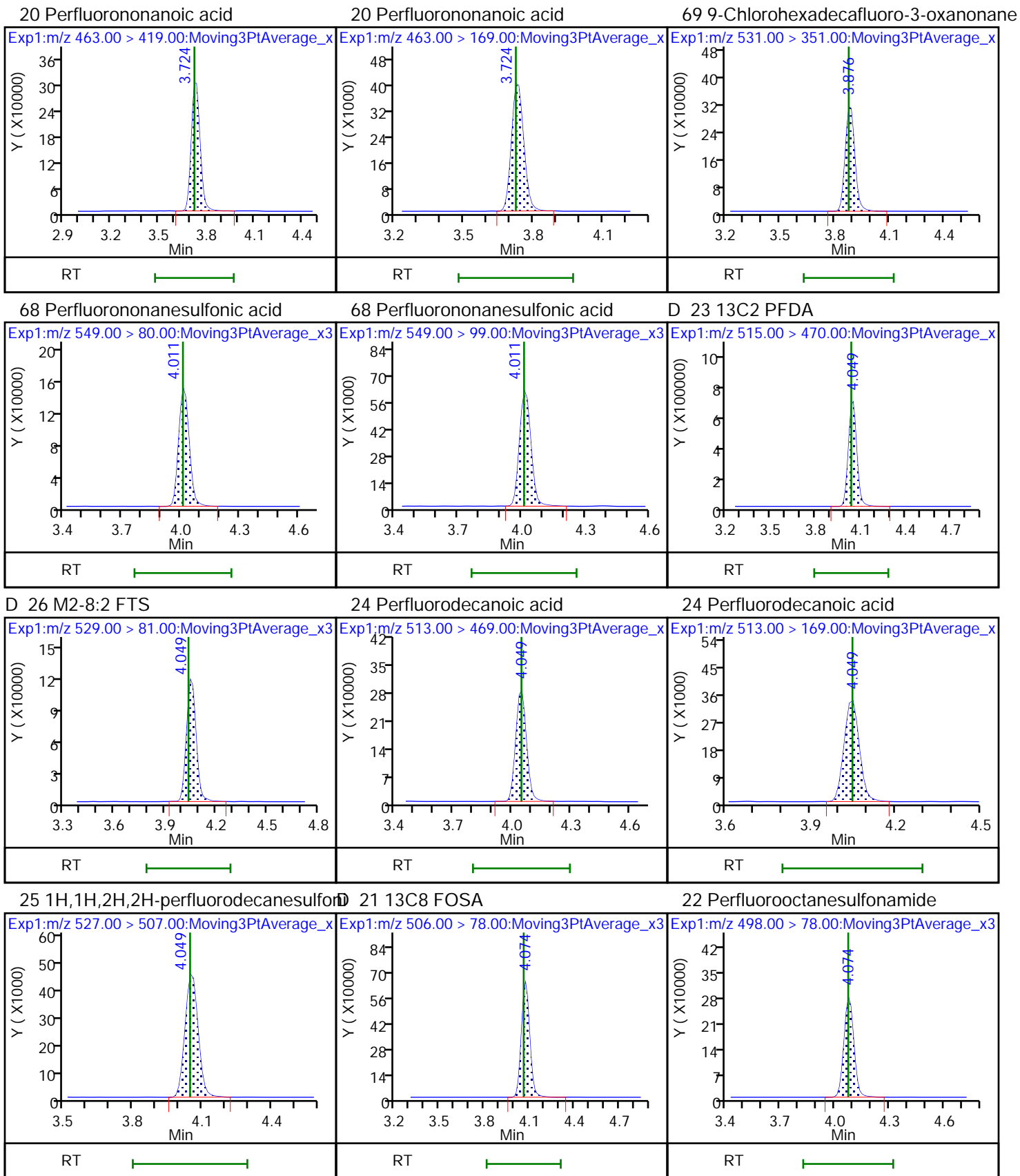


17 Perfluorooctanesulfonic acid

17 Perfluorooctanesulfonic acid

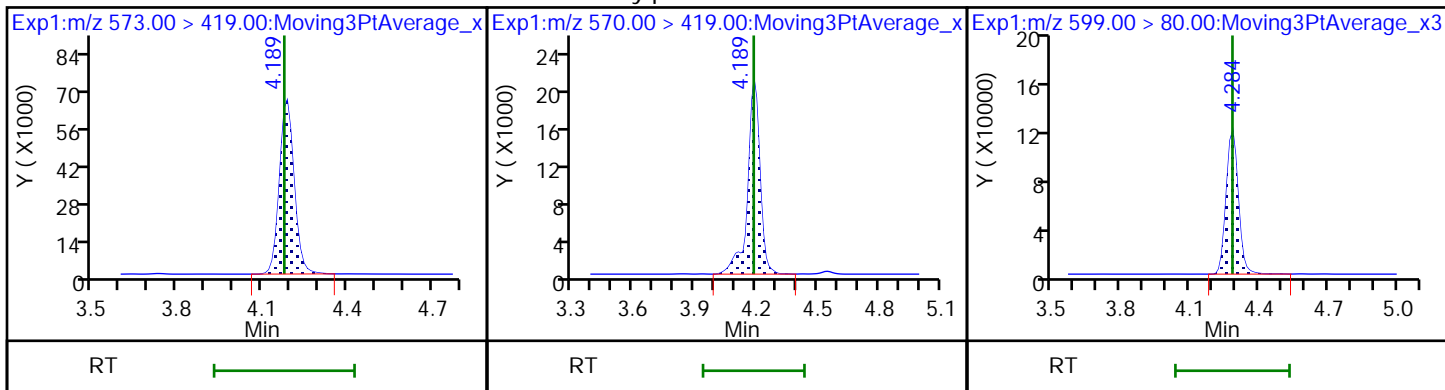
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

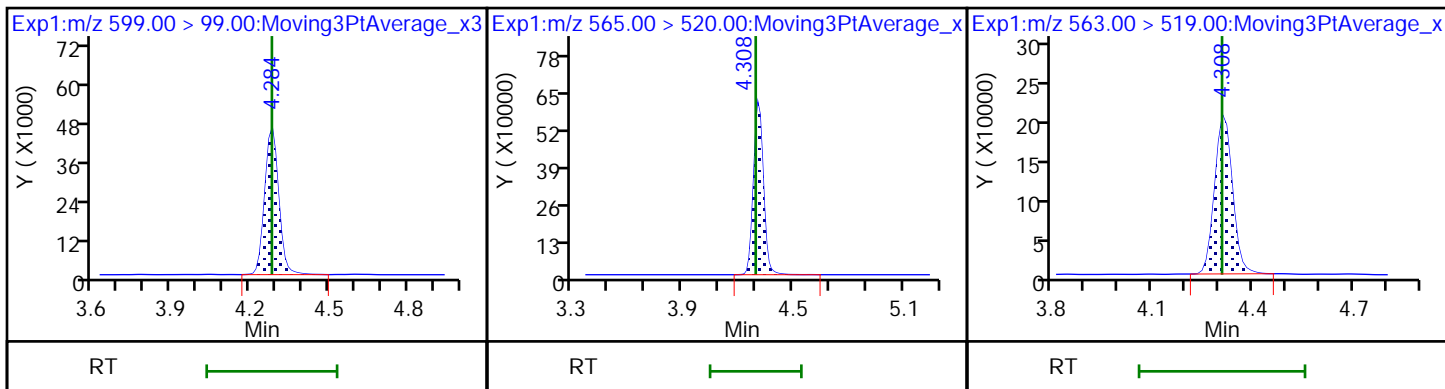
28 N-methylperfluorooctanesulfonamido 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

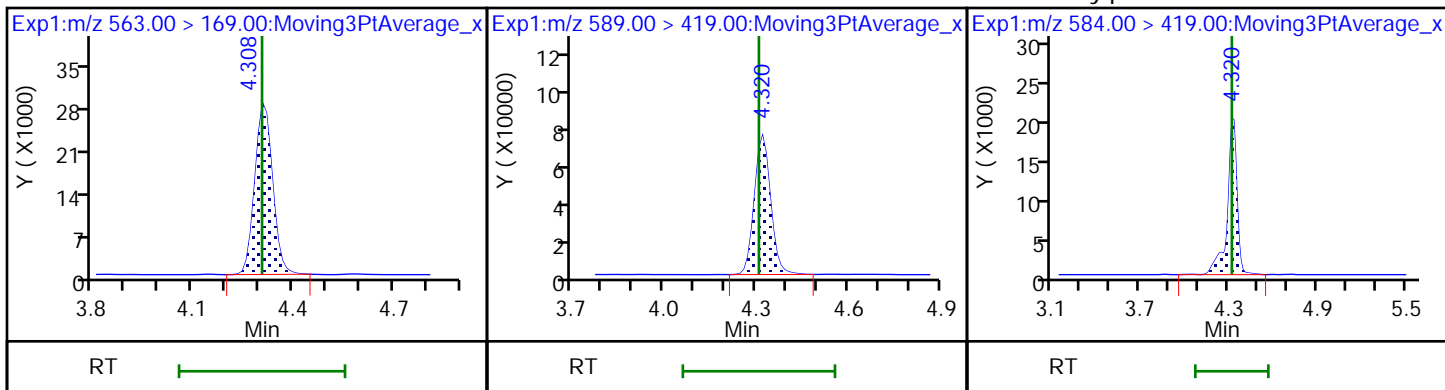
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

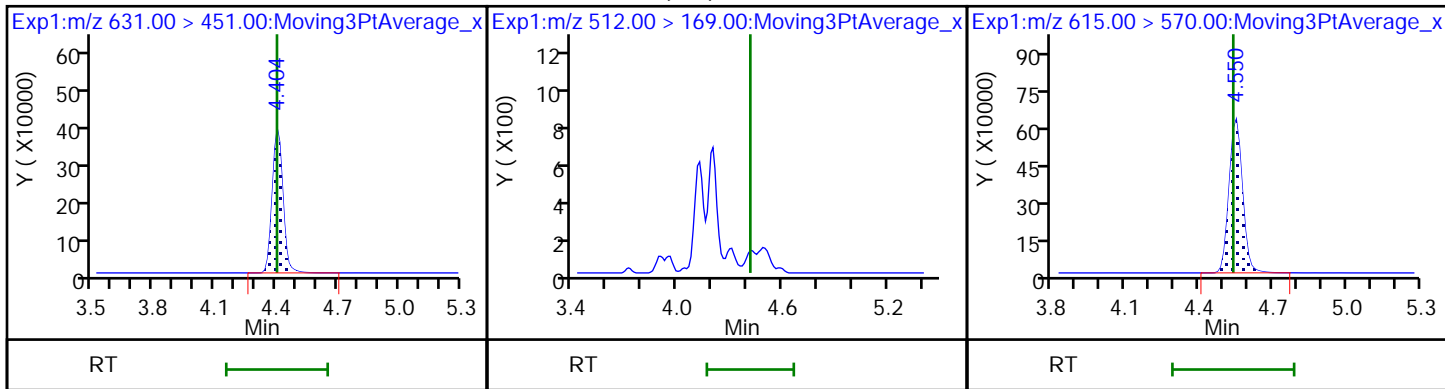
D 32 d5-NEtFOSAA

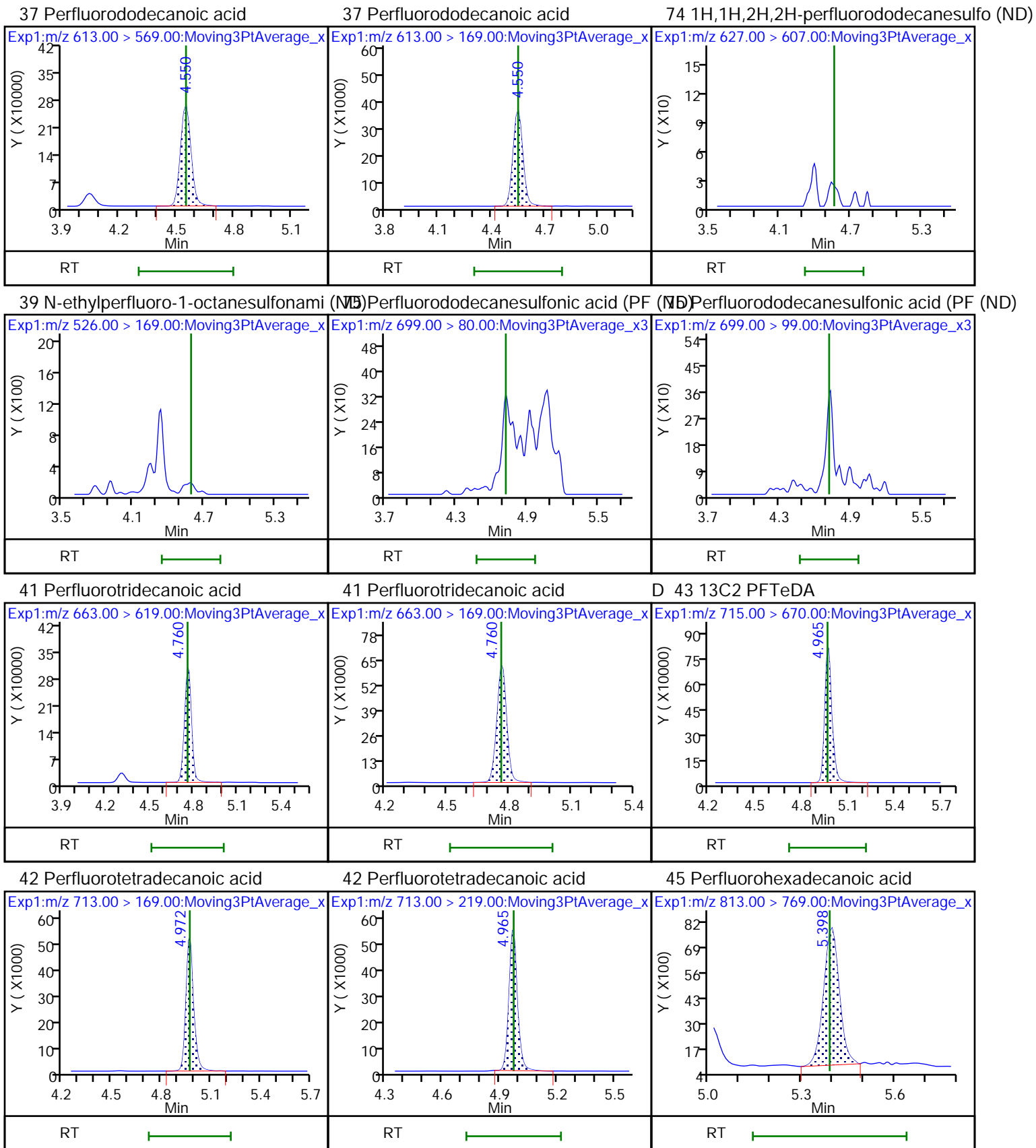
33 N-ethylperfluorooctanesulfonamido



66 11-Chloroeicosafuoro-3-oxaundecan 35 MeFOSA (ND)

D 36 13C2 PFDoA

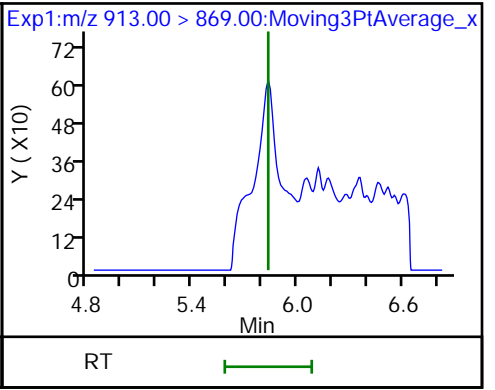
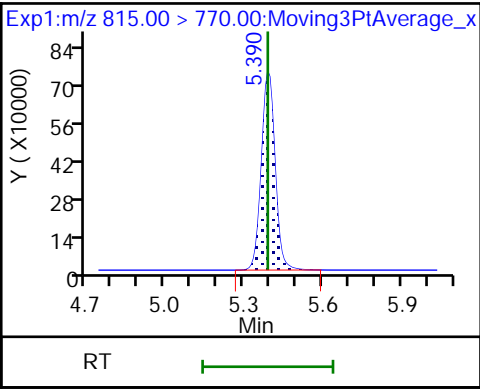
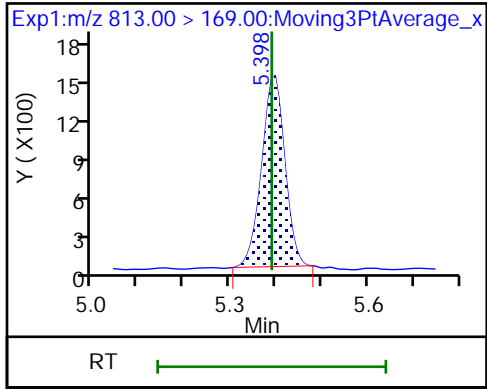




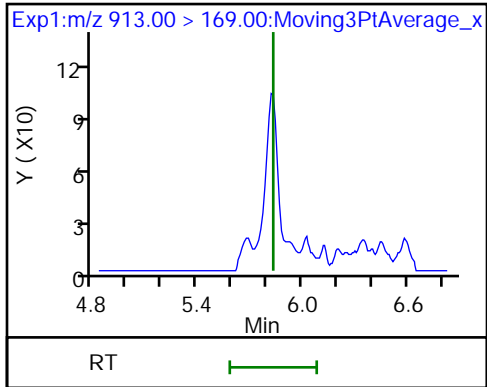
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA

46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



Eurofins TestAmerica, Burlington

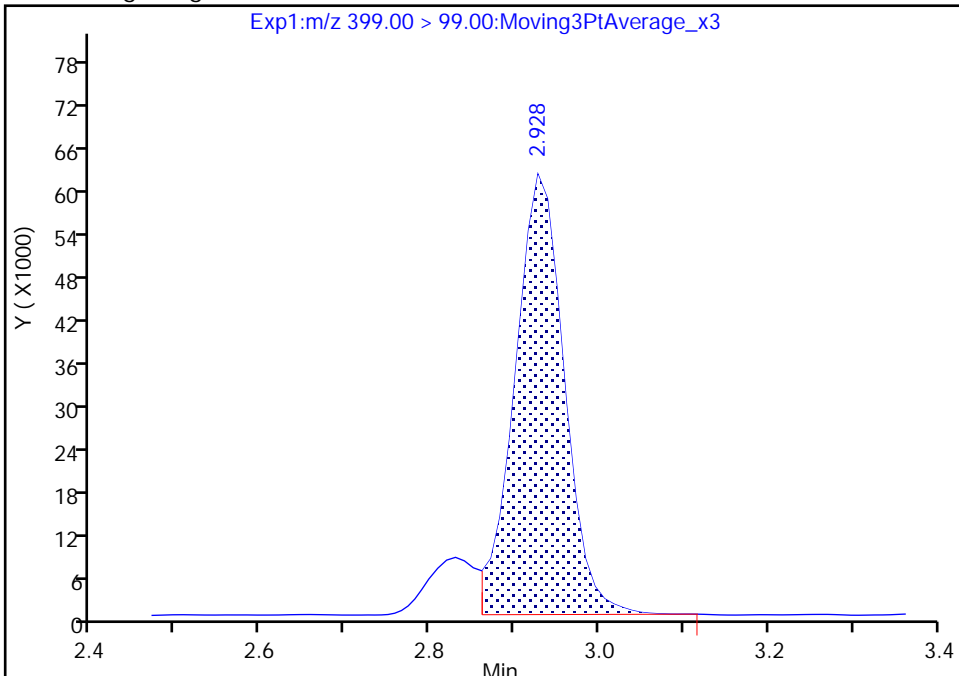
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E016.d  
Injection Date: 02-Aug-2019 05:49:54 Instrument ID: LC812  
Lims ID: 480-156213-F-14-B MS  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 16  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

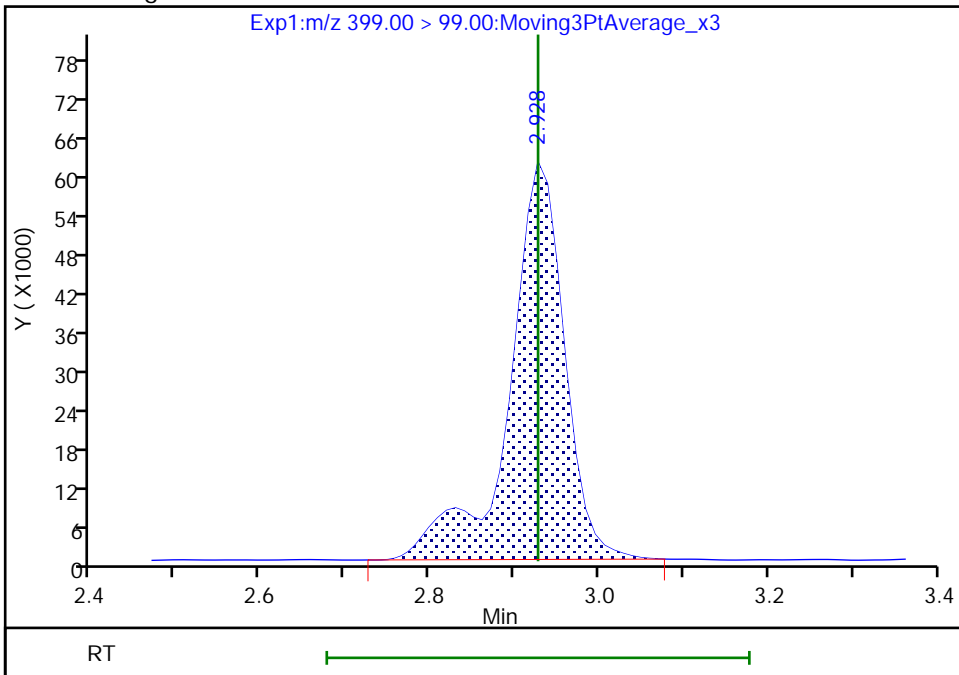
RT: 2.93  
Area: 249643  
Amount: 18.206278  
Amount Units: ng/ml

Processing Integration Results



RT: 2.93  
Area: 280770  
Amount: 18.206278  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:19:57  
Audit Action: Manually Integrated

Audit Reason: Isomers



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MSD Lab Sample ID: 480-156213-14 MSD  
 Matrix: Water Lab File ID: SC080119E017.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 13:15  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 287.8 (mL) Date Analyzed: 08/02/2019 05:57  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	38.4		1.7	0.87
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.1		1.7	0.55
307-24-4	Perfluorohexanoic acid (PFHxA)	38.0		1.7	0.66
375-85-9	Perfluoroheptanoic acid (PFHpA)	38.5		1.7	0.79
335-67-1	Perfluorooctanoic acid (PFOA)	39.7		1.7	0.55
375-95-1	Perfluorononanoic acid (PFNA)	39.3		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	39.1		1.7	0.67
2058-94-8	Perfluoroundecanoic acid (PFUnA)	33.6		1.7	0.46
307-55-1	Perfluorododecanoic acid (PFDoA)	35.3		1.7	0.51
72629-94-8	Perfluorotridecanoic acid (PFTriA)	34.9		1.7	0.52
376-06-7	Perfluorotetradecanoic acid (PFTeA)	43.5		1.7	0.80
375-73-5	Perfluorobutanesulfonic acid (PFBS)	30.1		1.7	0.43
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.8		1.7	0.69
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	40.9		1.7	0.83
335-77-3	Perfluorodecanesulfonic acid (PFDS)	34.1		1.7	0.78
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	37.3		1.7	0.53
754-91-6	Perfluorooctanesulfonamide (FOSA)	41.4		8.7	8.7
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	43.0		17	1.5
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	43.5		17	1.3
27619-97-2	6:2 FTS	25.4		17	4.0
39108-34-4	8:2 FTS	25.6		17	2.5

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023-MW6B MSD Lab Sample ID: 480-156213-14 MSD  
 Matrix: Water Lab File ID: SC080119E017.d  
 Analysis Method: 537 (modified) Date Collected: 07/11/2019 13:15  
 Extraction Method: 3535 Date Extracted: 07/23/2019 10:21  
 Sample wt/vol: 287.8 (mL) Date Analyzed: 08/02/2019 05:57  
 Con. Extract Vol.: 0.5 (mL) Dilution Factor: 1  
 Injection Volume: 2 (uL) GC Column: C-18 ID: 4.6 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 145761 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	71		25-150
STL00992	13C4 PFBA	83		25-150
STL01893	13C5 PFPeA	86		25-150
STL00993	13C2 PFHxA	89		50-150
STL01892	13C4 PFHpA	92		50-150
STL00990	13C4 PFOA	81		50-150
STL00995	13C5 PFNA	83		50-150
STL00996	13C2 PFDA	85		50-150
STL00997	13C2 PFUnA	80		50-150
STL00998	13C2 PFDoA	87		50-150
STL02116	13C2 PFTeDA	63		50-150
STL02337	13C3 PFBS	101		50-150
STL00994	18O2 PFHxS	90		50-150
STL00991	13C4 PFOS	86		50-150
STL02118	d3-NMeFOSAA	64		50-150
STL02117	d5-NEtFOSAA	65		50-150
STL02279	M2-6:2 FTS	109		25-150
STL02280	M2-8:2 FTS	104		25-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E017.d  
 Lims ID: 480-156213-F-14-C MSD  
 Client ID: 356023-MW6B  
 Sample Type: MSD  
 Inject. Date: 02-Aug-2019 05:57:57 ALS Bottle#: 10 Worklist Smp#: 17  
 Injection Vol: 2.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-156213-F-14-C MSD  
 Misc. Info.: 200-0037095-017 Plate: 1 Rack: 6  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 12-Aug-2019 09:36:00 Calib Date: 26-Jul-2019 11:34:21  
 Integrator: Picker  
 Quant Method: Isotopic Dilution Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\LC812\20190726-36970.b\SC072619A022.d  
 Column 1 : C-18 ( 4.60 mm) Det: EXP1  
 Process Host: CTX0314

First Level Reviewer: manopan Date: 06-Aug-2019 17:21:59  
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	1.699	1.699	0.0	0.505	3226720	41.3	82.5	11192	
2 Perfluorobutanoic acid	212.90 > 169.00	1.708	1.699	0.009	1.005	1313121	22.1	110	241	
D 3 13C5 PFPeA	267.90 > 223.00	2.067	2.054	0.013	0.615	3170757	43.2	86.3	7407	
4 Perfluoropentanoic acid	262.90 > 219.00	2.067	2.067	0.0	1.000	1379870	22.5	112	78.6	
D 47 13C3 PFBS	301.90 > 80.00	2.093	2.080	0.013	0.622	3401571	47.1	101	351548	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.093	2.093	0.0	1.000	1290196	17.3	Target=1.90	98.1	390
	298.90 > 99.00	2.093	2.093	0.0	1.000	659884		1.96(0.95-2.85)		572
D 60 M2-4:2 FTS	329.00 > 81.00	2.417	2.417	0.0	0.718	316840	45.4	97.2	200	
61 1H,1H,2H,2H-perfluorohexanesulfoni	327.00 > 307.00	2.426	2.417	0.009	1.004	273457	16.9	90.3	2246	
D 7 13C2 PFHxA	315.00 > 270.00	2.459	2.459	0.0	0.731	3229530	44.3	88.5	8245	
6 Perfluorohexanoic acid	313.00 > 269.00	2.470	2.459	0.011	1.005	1454431	21.9	Target=13.23	109	310
	313.00 > 119.00	2.470	2.459	0.011	1.005	117049		12.43(6.61-19.84)		139
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.470	2.470	0.0	1.180	1229912	18.8	Target=2.73	100	959
	349.00 > 99.00	2.470	2.470	0.0	1.180	410014		3.00(1.37-4.10)		705
D 64 13C3 HFPO-DA	332.10 > 287.00	2.596	2.596	0.0	0.772	221718	47.4	94.7	1217	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.608	2.596	0.012	1.005	211007	18.7		93.6	61.7	
D 11 18O2 PFHxS										
403.00 > 84.00	2.928	2.916	0.012	0.870	1803854	42.7		90.2	5913	
D 9 13C4 PFHpA										
367.00 > 322.00	2.928	2.928	0.0	0.870	3296671	46.1		92.3	7981	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	2.928	2.928	0.0	1.000	977242	19.4	Target=3.37	107	5877	
399.00 > 99.00	2.928	2.928	0.0	1.000	273551		3.57(1.69-5.06)		310	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.939	2.928	0.011	1.004	1369507	22.2	Target=3.76	111	336	
363.00 > 169.00	2.939	2.928	0.011	1.004	383636		3.57(1.88-5.65)		1418	
77 DONA										
377.00 > 251.00	2.984	2.973	0.011	0.804	2849364	19.8	Target=2.72	105	2063	
377.00 > 85.00	2.984	2.973	0.011	0.804	1072829		2.66(1.36-4.07)		1407	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.345	3.335	0.010	0.995	456057	51.9		109	802	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	3.345	3.336	0.009	1.000	240546	14.6		77.0	545	
D 14 13C4 PFOA										
417.00 > 372.00	3.364	3.344	0.020	1.000	3062436	40.6		81.1	9743	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.355	3.345	0.010	0.903	860915	23.6	Target=4.80	124	1819	
449.00 > 99.00	3.345	3.345	0.0	0.901	165410		5.20(2.40-7.20)		610	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.364	3.355	0.009	1.000	1522975	22.9	Target=2.84	114	191	
413.00 > 169.00	3.364	3.355	0.009	1.000	578180		2.63(1.42-4.25)		1525	
* 62 13C2 PFOA										
415.00 > 370.00	3.364	3.355	0.009		4149672	50.0			13764	
D 18 13C4 PFOS										
503.00 > 80.00	3.713	3.695	0.018	1.104	1449496	41.2		86.1	3751	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.713	3.703	0.010	1.000	617040	21.5	Target=4.33	116	2478	
499.00 > 99.00	3.713	3.703	0.010	1.000	131175		4.70(2.16-6.49)		568	M
D 19 13C5 PFNA										
468.00 > 423.00	3.734	3.715	0.019	1.110	2845599	41.3		82.7	14177	
20 Perfluorononanoic acid										
463.00 > 419.00	3.734	3.723	0.011	1.000	1167397	22.6	Target=8.15	113	431	
463.00 > 169.00	3.734	3.723	0.011	1.000	138265		8.44(4.08-12.23)		1104	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.886	3.875	0.011	1.047	1009611	15.3		82.1	2965	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.022	4.010	0.012	1.083	493139	19.3	Target=2.42	100	2293	
549.00 > 99.00	4.022	4.010	0.012	1.083	206753		2.39(1.21-3.63)		603	
D 23 13C2 PFDA										
515.00 > 470.00	4.047	4.036	0.011	1.203	2332382	42.3		84.7	11961	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.059	4.036	0.023	1.207	404122	49.8		104	87308	08/13/2019

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.047	4.047	0.0	1.000	1015390	22.5	Target=9.58	112	409	
513.00 > 169.00	4.047	4.047	0.0	1.000	114104		8.90(4.79-14.37)		727	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	4.059	4.047	0.012	1.000	166493	14.7		77.0	1852	
D 21 13C8 FOSA										
506.00 > 78.00	4.084	4.061	0.023	1.214	2244081	35.5		71.0	7833	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.084	4.072	0.012	1.000	977012	23.8		119	4772	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.187	4.178	0.009	1.245	226309	32.2		64.3	1796	
28 N-methylperfluorooctanesulfonamido										
570.00 > 419.00	4.198	4.187	0.011	1.003	84707	24.7		124	201	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.283	4.283	0.0	1.153	393961	19.6	Target=2.64	102	3673	
599.00 > 99.00	4.283	4.283	0.0	1.153	156161		2.52(1.32-3.96)		745	
D 30 13C2 PFUnA										
565.00 > 520.00	4.319	4.296	0.023	1.284	1995178	39.8		79.5	6534	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.319	4.307	0.012	1.000	662161	19.3	Target=7.95	96.7	346	
563.00 > 169.00	4.319	4.307	0.012	1.000	92196		7.18(3.98-11.93)		801	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.319	4.308	0.011	1.284	255671	32.6		65.2	942	
33 N-ethylperfluorooctanesulfonamidoa										
584.00 > 419.00	4.331	4.319	0.012	1.003	81904	25.0		125	680	
66 11-Chloroeicosafuoro-3-oxaundecan										
631.00 > 451.00	4.415	4.403	0.012	1.189	1269781	12.6		67.1	5188	
35 MeFOSA										
512.00 > 169.00	4.198	4.415	-0.217		2498	NR		0.0	11.6	
D 36 13C2 PFDaA										
615.00 > 570.00	4.549	4.537	0.012	1.352	2361495	43.7		87.5	8236	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.549	4.549	0.0	1.000	982289	20.3	Target=7.49	102	91.8	
613.00 > 169.00	4.549	4.549	0.0	1.000	137568		7.14(3.75-11.24)		1942	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.769	4.760	0.009	1.048	869859	20.1	Target=5.71	100	122	
663.00 > 169.00	4.769	4.760	0.009	1.048	189918		4.58(2.85-8.56)		1296	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.972	4.965	0.007	1.478	2342190	31.5		63.0	6445	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.972	4.972	0.0	1.000	156115	25.0	Target=1.02	125	1349	
713.00 > 219.00	4.972	4.972	0.0	1.000	151655		1.03(0.51-1.54)		1724	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.398	5.390	0.008	1.000	21647	0.1225	Target=5.23	0.0	7.2	
813.00 > 169.00	5.398	5.390	0.008	1.000	4382		4.94(2.62-7.85)		80.3	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.398	5.390	0.008	1.605	2224634	33.6		67.3	4322	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E017.d

Injection Date: 02-Aug-2019 05:57:57

Instrument ID: LC812

Lims ID: 480-156213-F-14-C MSD

Client ID: 356023-MW6B

Operator ID: lc812tech

ALS Bottle#: 10

Worklist Smp#: 17

Injection Vol: 2.0 ul

Dil. Factor: 1.0000

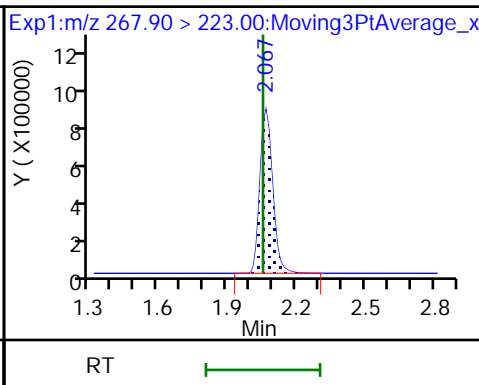
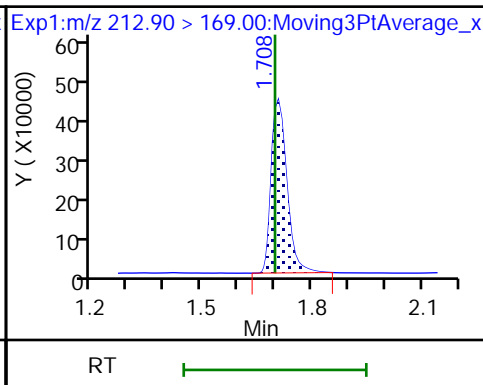
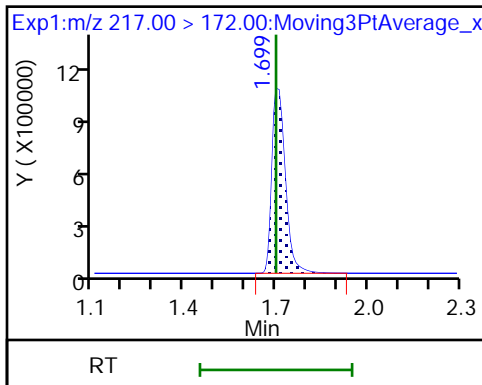
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

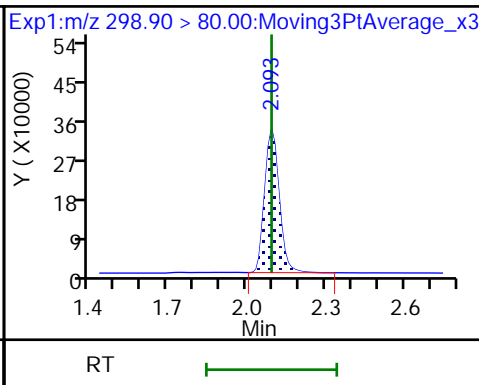
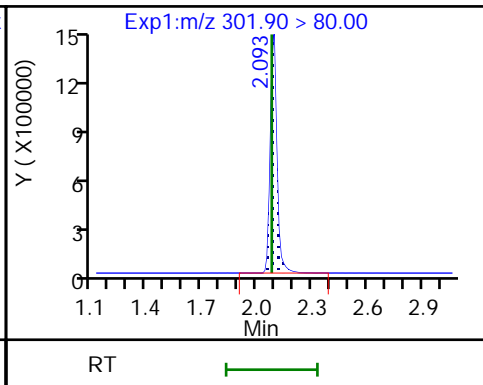
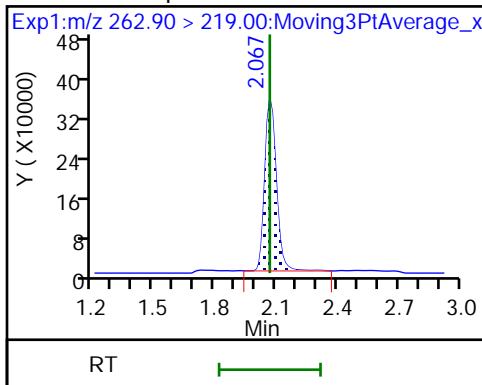
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

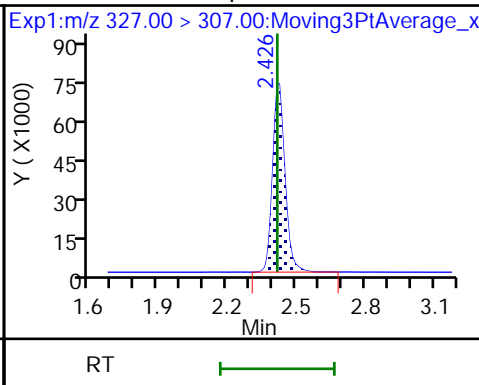
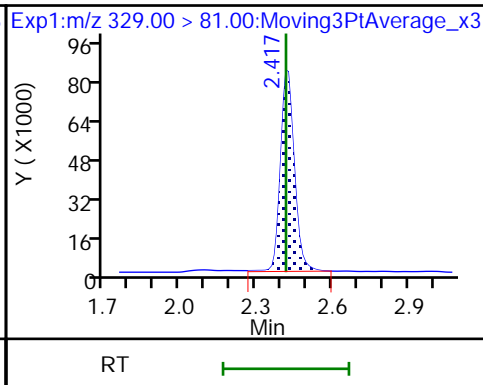
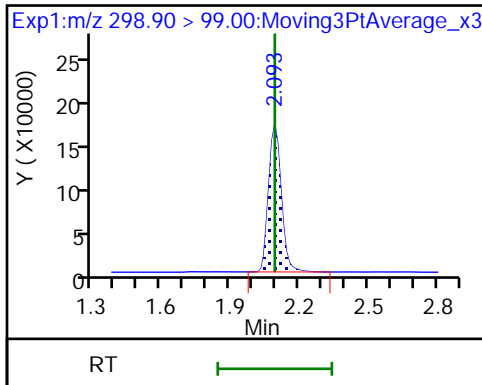
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

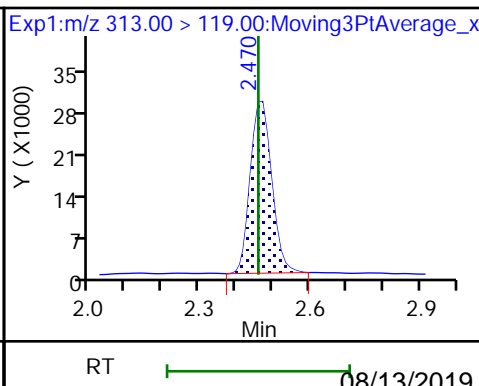
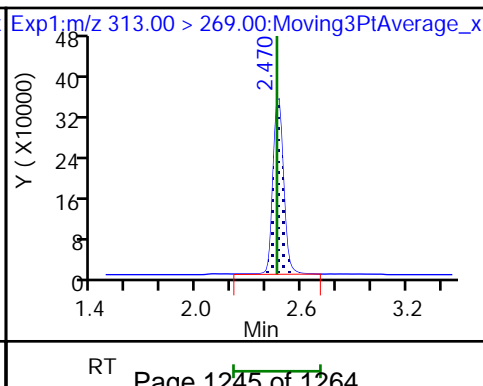
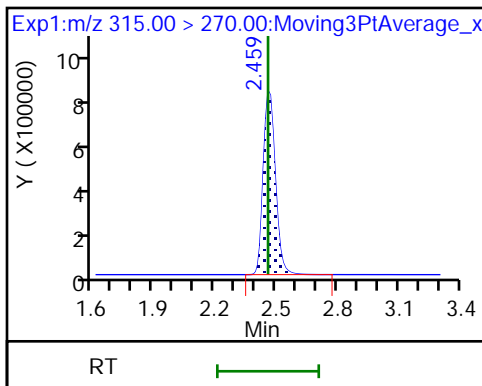
61 1H,1H,2H,2H-perfluorohexanesulfoni

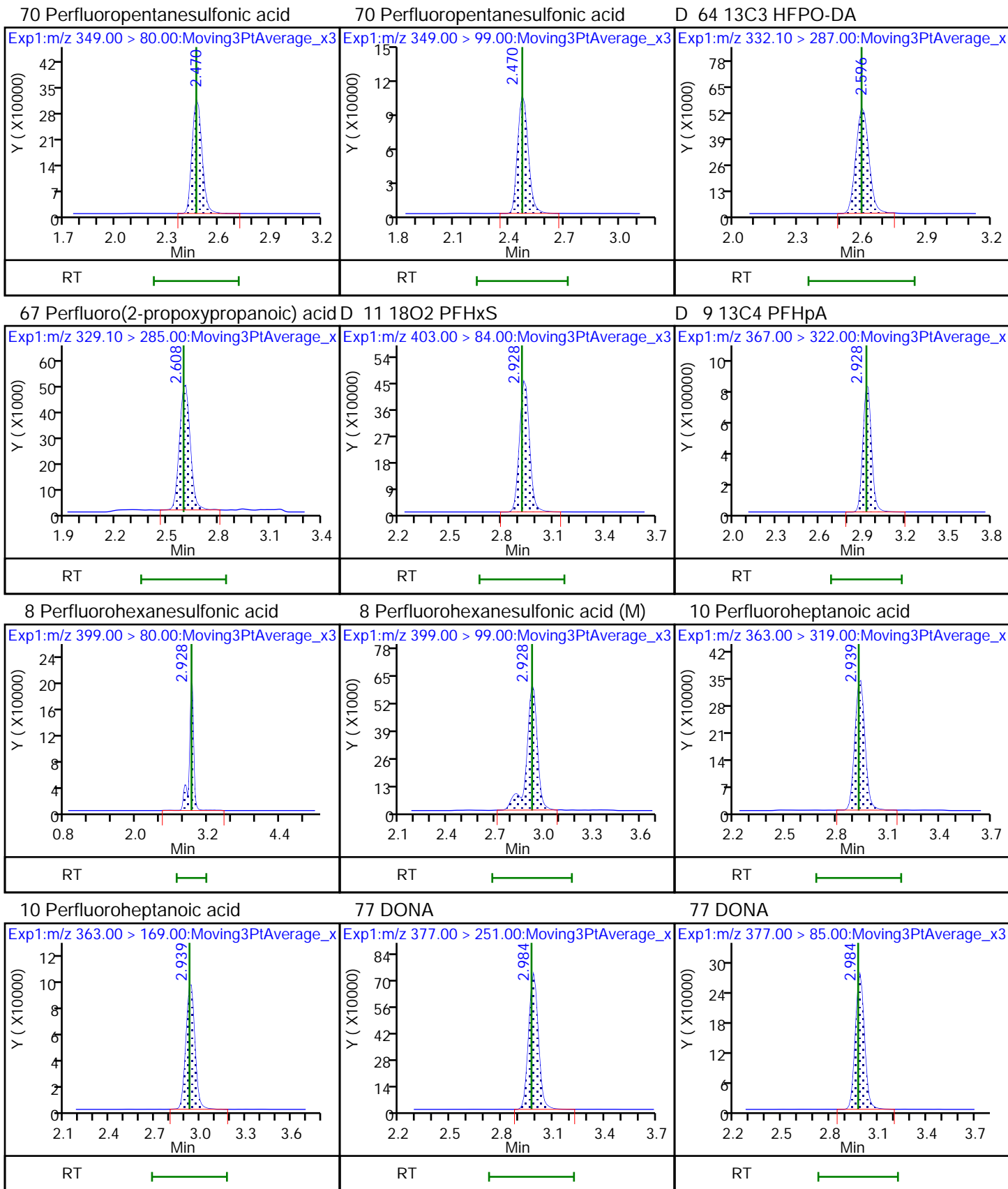


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

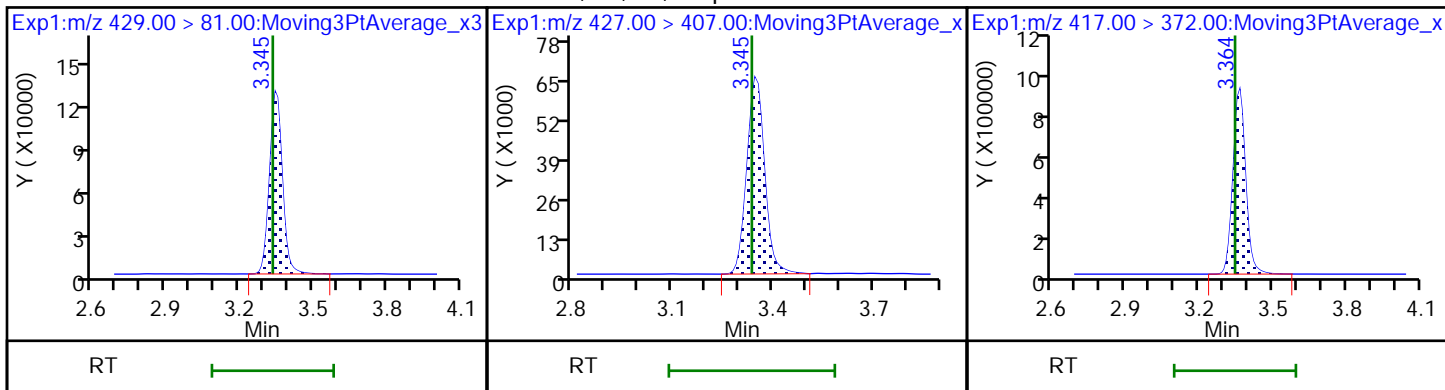






D 12 M2-6:2 FTS

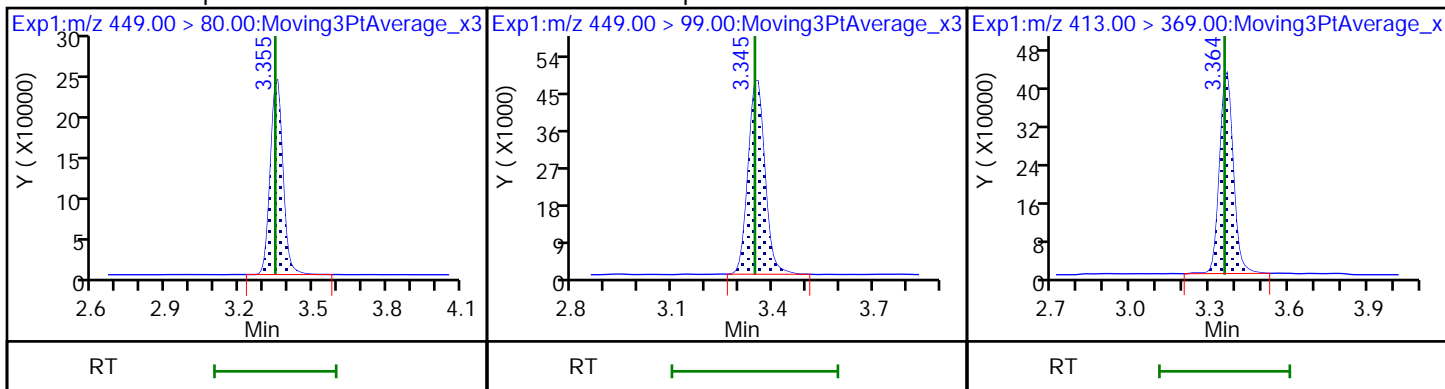
13 1H,1H,2H,2H-perfluorooctanesulfonD 14 13C4 PFOA



16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid

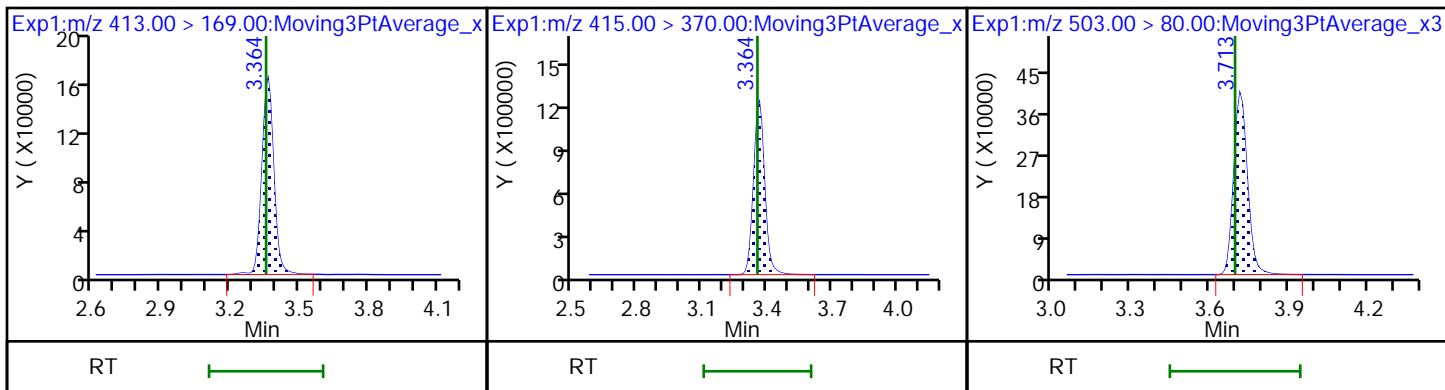
15 Perfluorooctanoic acid



15 Perfluorooctanoic acid

\* 62 13C2 PFOA

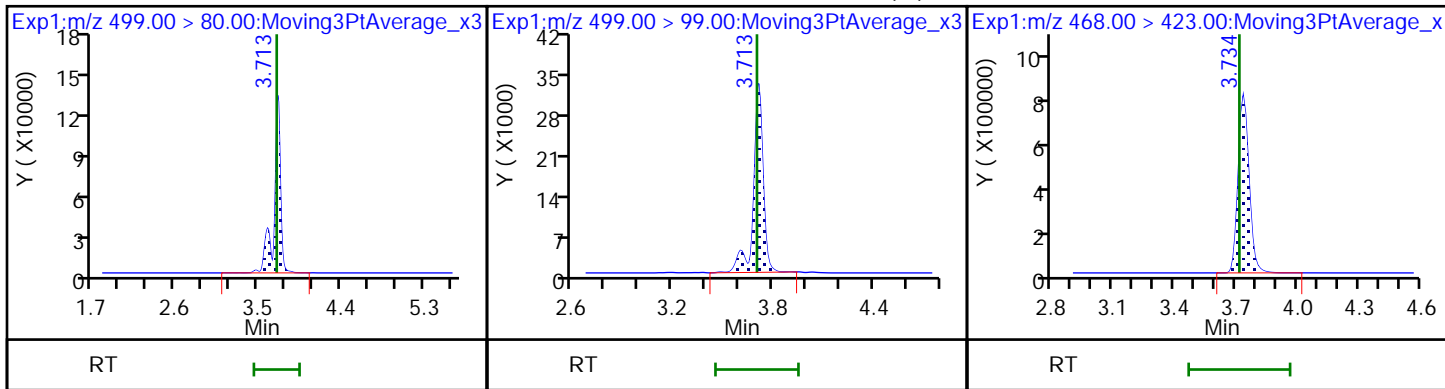
D 18 13C4 PFOS

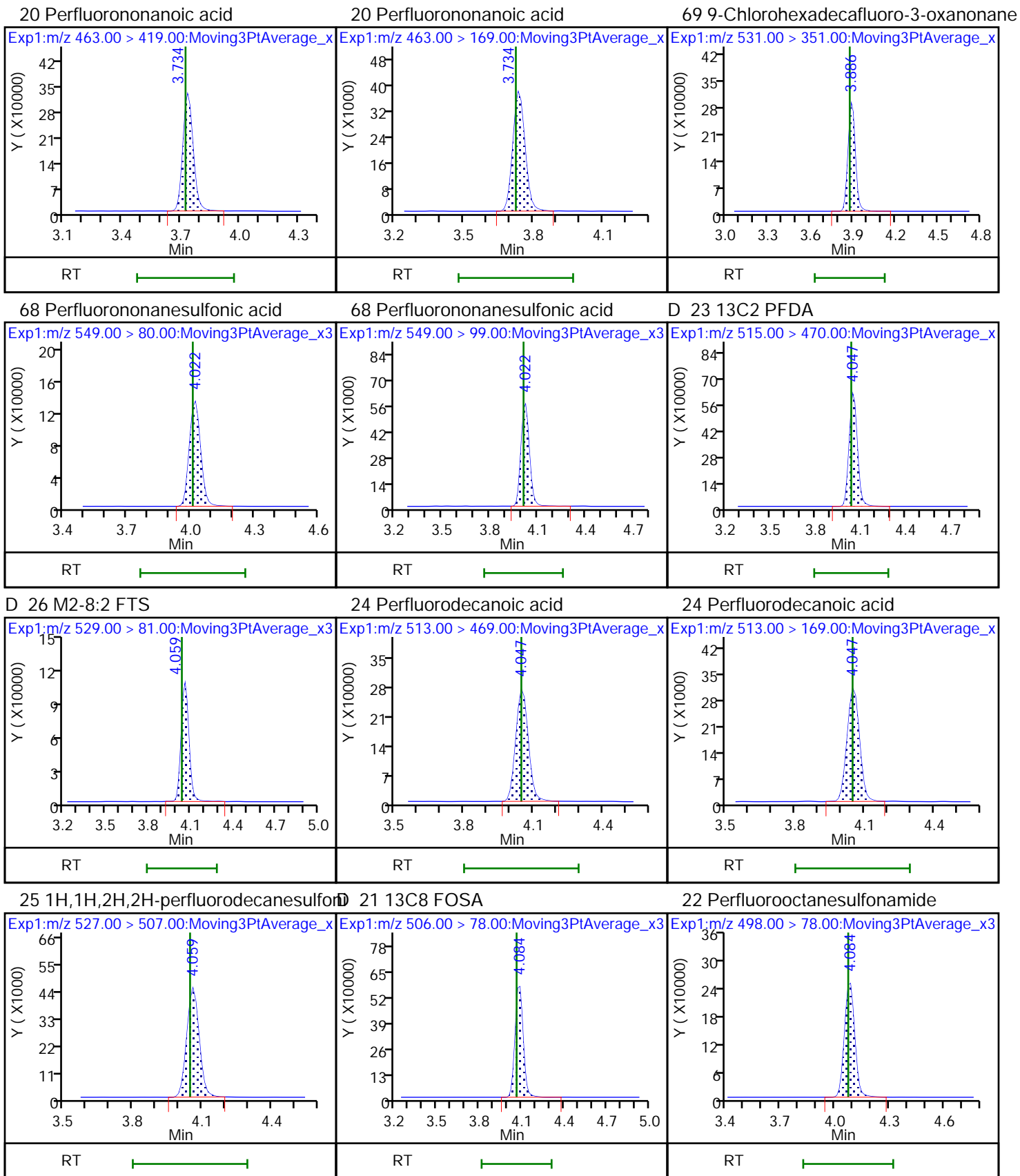


17 Perfluorooctanesulfonic acid

17 Perfluorooctanesulfonic acid (M)

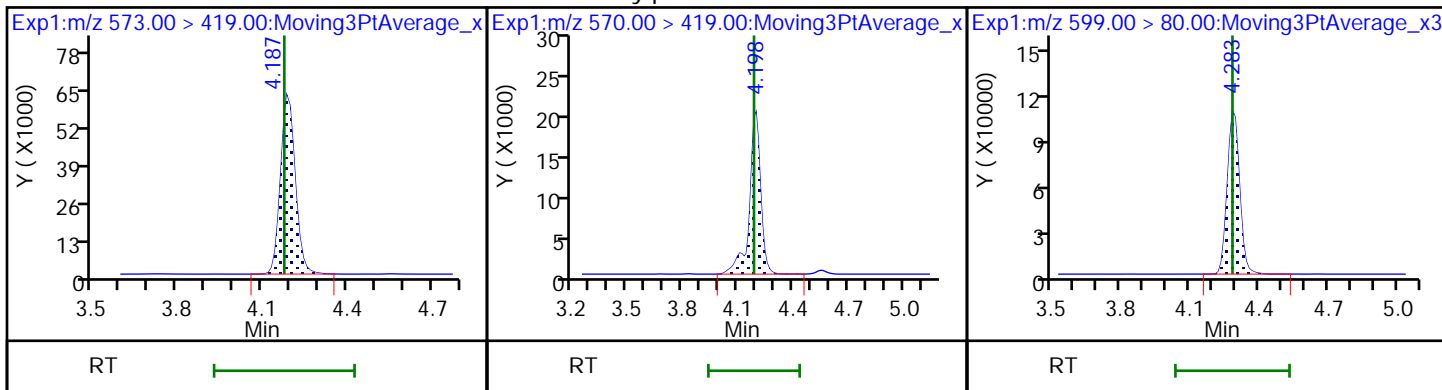
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

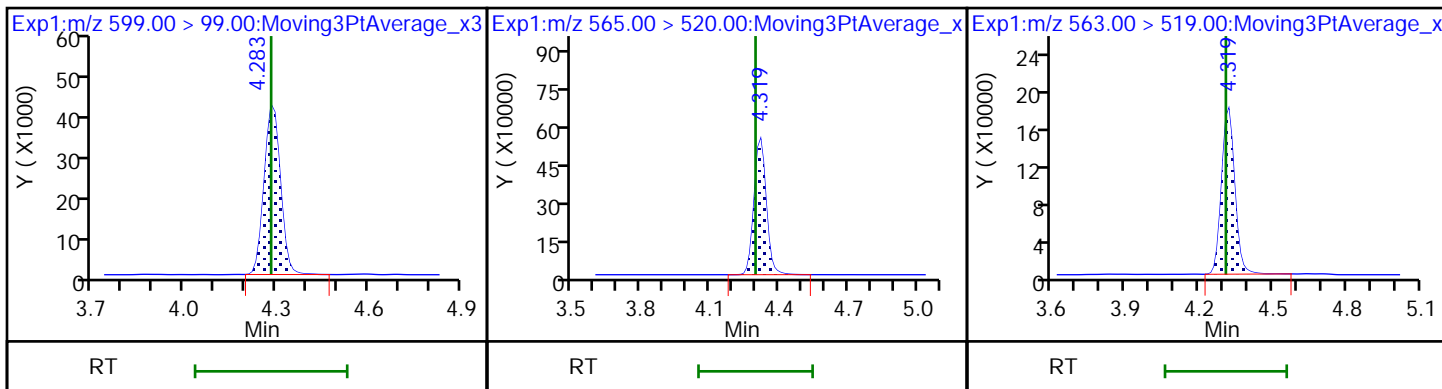
28 N-methylperfluorooctanesulfonamido 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

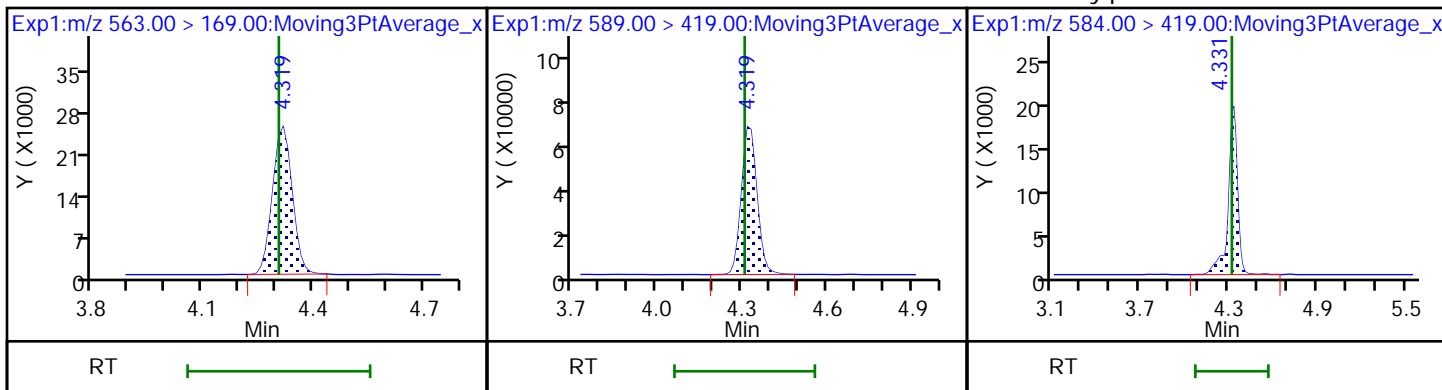
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

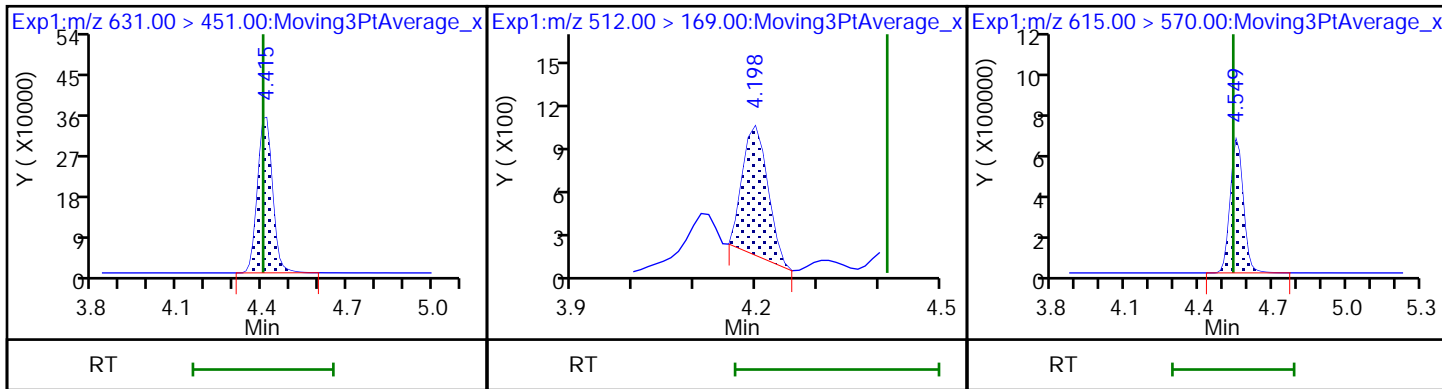
D 32 d5-NEtFOSAA

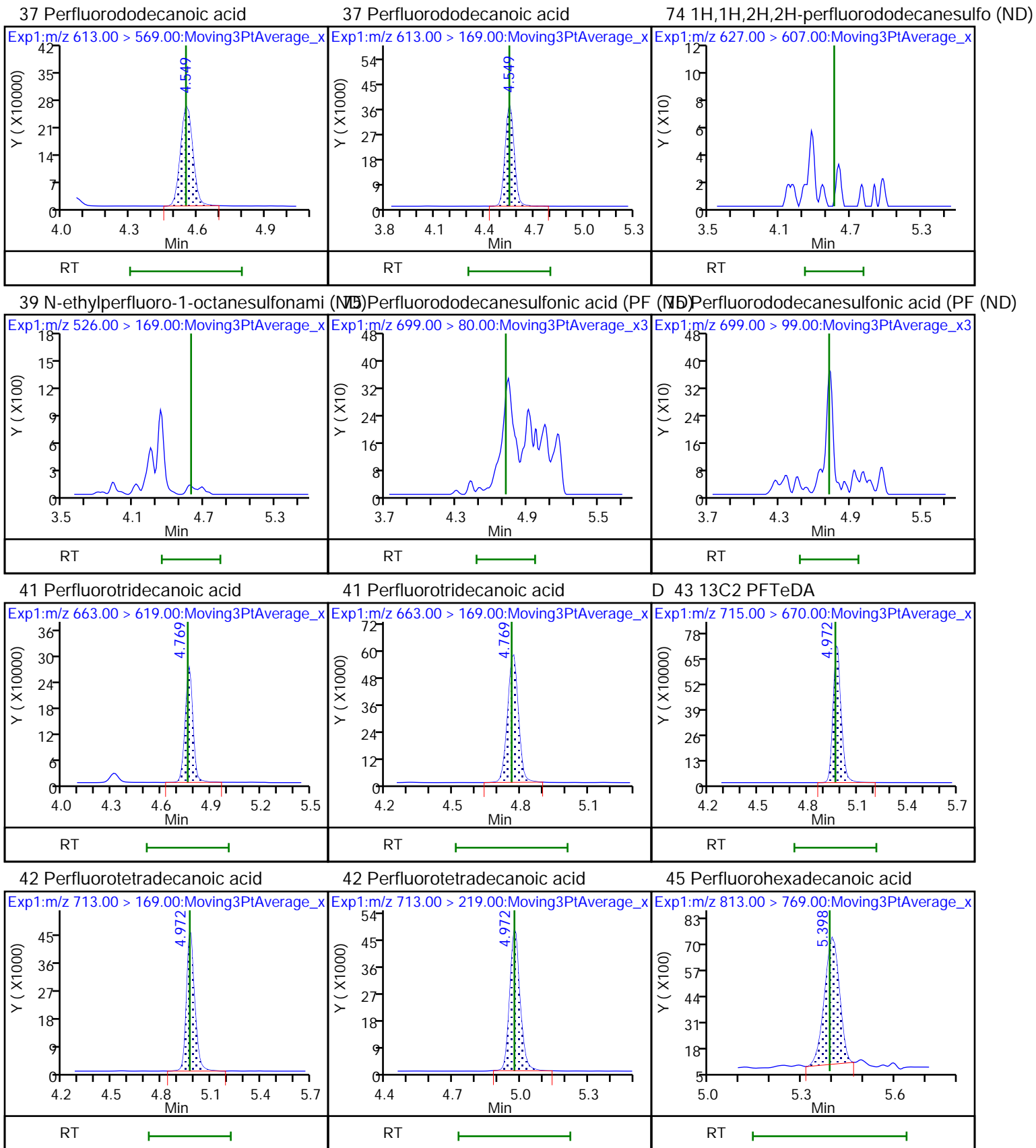
33 N-ethylperfluorooctanesulfonamido



66 11-Chloroeicosafuoro-3-oxaundecan 35 MeFOSA

D 36 13C2 PFDoA

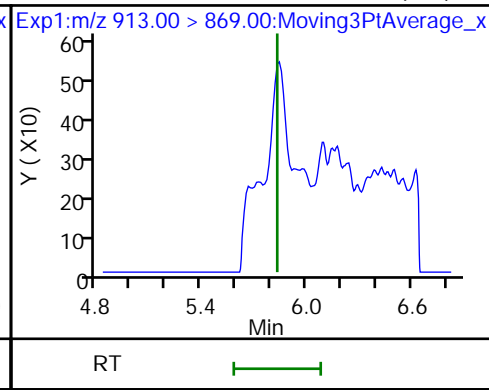
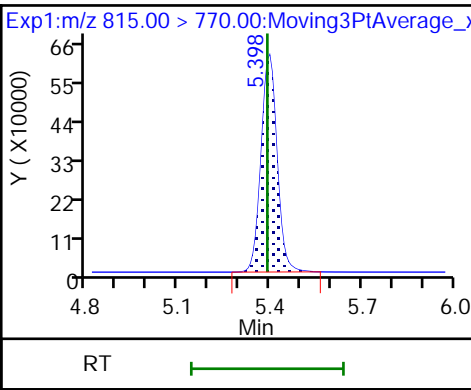
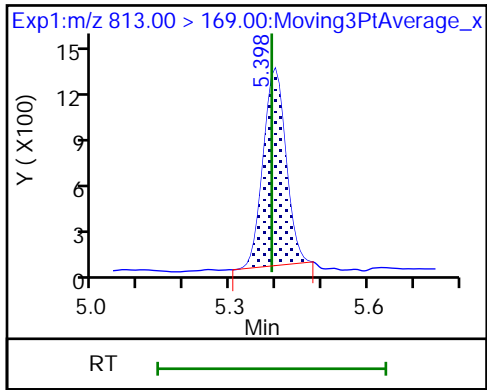




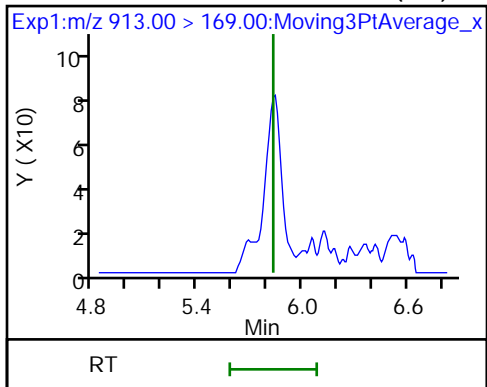
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA

46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



Eurofins TestAmerica, Burlington

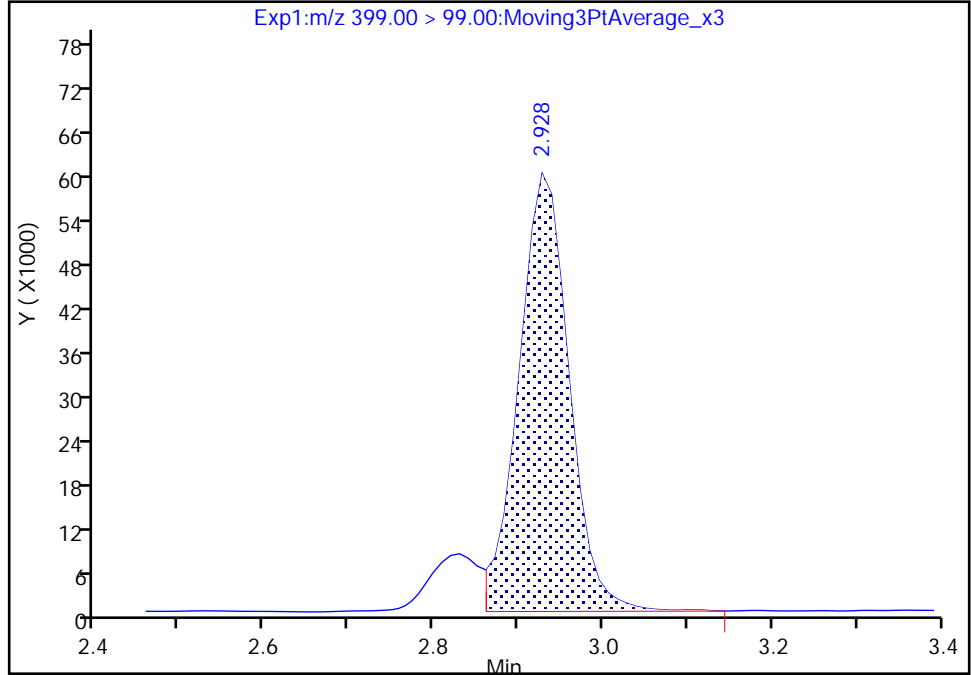
Data File: \\ChromNA\Burlington\ChromData\LC812\20190801-37095.b\SC080119E017.d  
Injection Date: 02-Aug-2019 05:57:57 Instrument ID: LC812  
Lims ID: 480-156213-F-14-C MSD  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 17  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

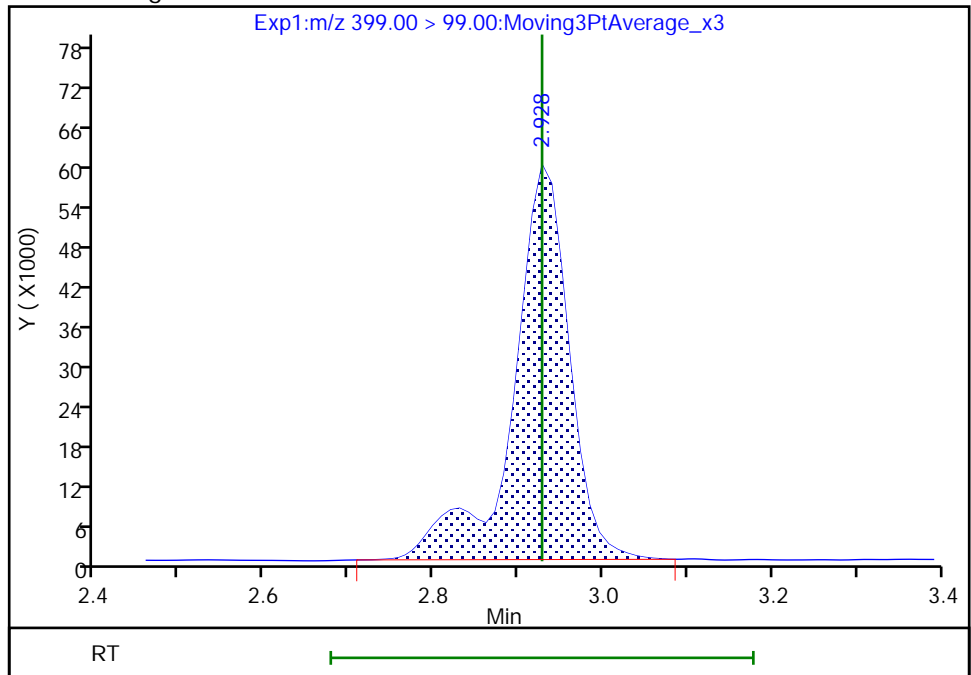
RT: 2.93  
Area: 244719  
Amount: 19.445327  
Amount Units: ng/ml

Processing Integration Results



RT: 2.93  
Area: 273551  
Amount: 19.445327  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:21:14  
Audit Action: Manually Integrated

Audit Reason: Isomers

Eurofins TestAmerica, Burlington

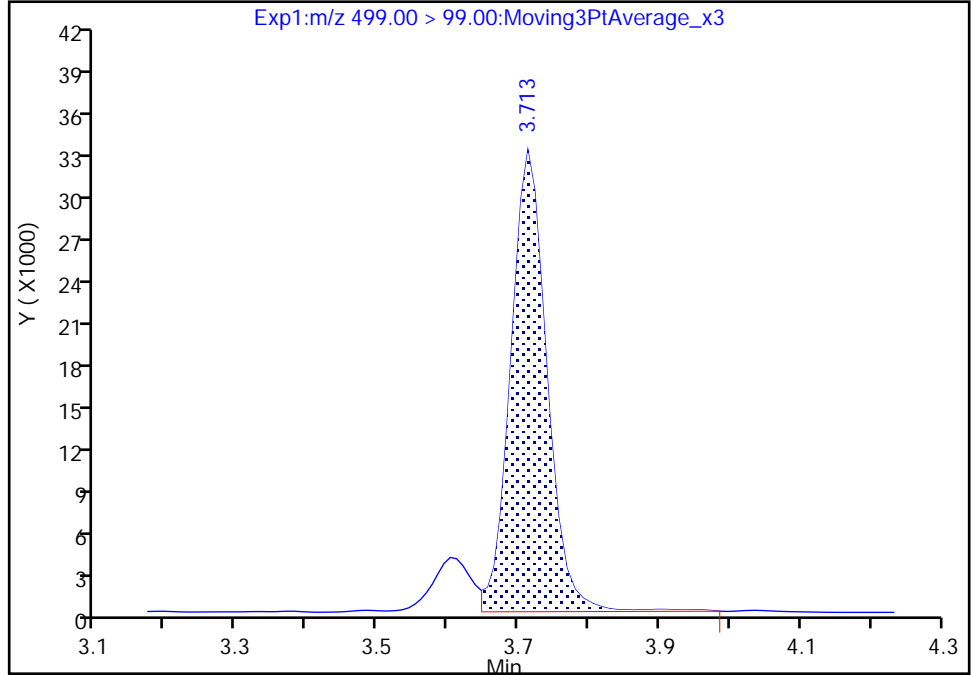
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Injection Date: 02-Aug-2019 05:57:57 Instrument ID: LC812  
Lims ID: 480-156213-F-14-C MSD  
Client ID: 356023-MW6B  
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 17  
Injection Vol: 2.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

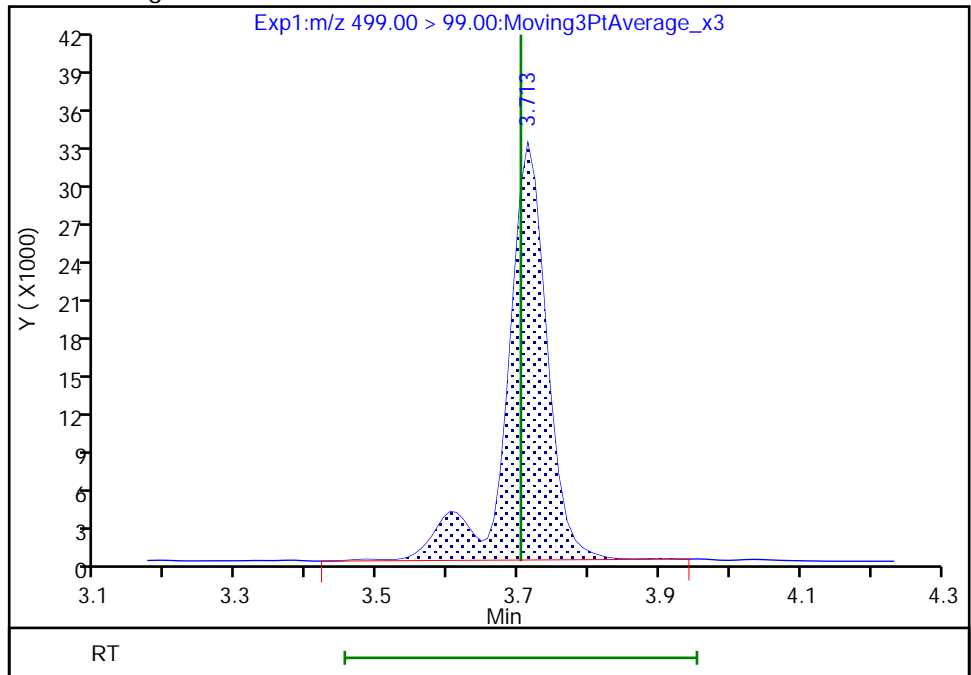
RT: 3.71  
Area: 117842  
Amount: 21.497902  
Amount Units: ng/ml

Processing Integration Results



RT: 3.71  
Area: 131175  
Amount: 21.497902  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 06-Aug-2019 17:21:29  
Audit Action: Manually Integrated

Audit Reason: Isomers

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: LC812 Start Date: 07/26/2019 08:45

Analysis Batch Number: 145525 End Date: 07/26/2019 12:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/26/2019 08:45	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 08:53	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 09:01	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 09:09	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 09:17	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 09:25	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 09:33	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 09:42	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 09:50	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 09:58	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 10:06	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 10:14	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 10:22	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 10:30	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 10:38	1		C-18 4.6 (mm)
Blk ICB		07/26/2019 10:46	1		C-18 4.6 (mm)
IC 200-145525/17		07/26/2019 10:54	1	SC072619A017.d	C-18 4.6 (mm)
IC 200-145525/18		07/26/2019 11:02	1	SC072619A018.d	C-18 4.6 (mm)
IC 200-145525/19		07/26/2019 11:10	1	SC072619A019.d	C-18 4.6 (mm)
ICIS 200-145525/20		07/26/2019 11:18	1	SC072619A020.d	C-18 4.6 (mm)
IC 200-145525/21		07/26/2019 11:26	1	SC072619A021.d	C-18 4.6 (mm)
IC 200-145525/22		07/26/2019 11:34	1	SC072619A022.d	C-18 4.6 (mm)
ICB 200-145525/23		07/26/2019 11:42	1		C-18 4.6 (mm)
ICV 200-145525/24		07/26/2019 11:50	1	SC072619A024.d	C-18 4.6 (mm)
ZZZZZ		07/26/2019 11:58	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 12:06	1		C-18 4.6 (mm)
MDLV 200-145161/6-A		07/26/2019 12:14	1		C-18 4.6 (mm)
MDLV 200-145161/7-A		07/26/2019 12:22	1		C-18 4.6 (mm)
MDLV 200-145161/8-A		07/26/2019 12:30	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 12:38	1		C-18 4.6 (mm)
ZZZZZ		07/26/2019 12:46	1		C-18 4.6 (mm)
CCV 200-145525/32		07/26/2019 12:54	1		C-18 4.6 (mm)



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: LC812 Start Date: 08/01/2019 14:18

Analysis Batch Number: 145757 End Date: 08/01/2019 17:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICB 200-145757/1		08/01/2019 14:18	1	SC080119A001.d	C-18 4.6 (mm)
CCVL 200-145757/2		08/01/2019 14:26	1	SC080119A002.d	C-18 4.6 (mm)
CCV 200-145757/3 CCVIS		08/01/2019 14:34	1	SC080119A003.d	C-18 4.6 (mm)
ZZZZZ		08/01/2019 14:42	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 14:50	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 14:58	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 15:06	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 15:14	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 15:22	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 15:30	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 15:38	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 15:46	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 15:54	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 16:02	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 16:10	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 16:18	1		C-18 4.6 (mm)
CCV 200-145757/17		08/01/2019 16:26	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 16:34	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 16:42	1		C-18 4.6 (mm)
ZZZZZ		08/01/2019 17:30	5		C-18 4.6 (mm)
ZZZZZ		08/01/2019 17:47	50		C-18 4.6 (mm)
CCV 200-145757/28		08/01/2019 17:55	1		C-18 4.6 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Instrument ID: LC812 Start Date: 08/02/2019 03:49

Analysis Batch Number: 145761 End Date: 08/02/2019 06:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-145761/1		08/02/2019 03:49	1	SC080119E001.d	C-18 4.6 (mm)
MB 200-145382/1-A		08/02/2019 03:57	1	SC080119E002.d	C-18 4.6 (mm)
LCS 200-145382/2-A		08/02/2019 04:05	1	SC080119E003.d	C-18 4.6 (mm)
480-156213-1		08/02/2019 04:13	1	SC080119E004.d	C-18 4.6 (mm)
480-156213-2		08/02/2019 04:21	1	SC080119E005.d	C-18 4.6 (mm)
480-156213-3		08/02/2019 04:29	1	SC080119E006.d	C-18 4.6 (mm)
480-156213-4		08/02/2019 04:37	1	SC080119E007.d	C-18 4.6 (mm)
480-156213-5		08/02/2019 04:45	1	SC080119E008.d	C-18 4.6 (mm)
480-156213-6		08/02/2019 04:53	1	SC080119E009.d	C-18 4.6 (mm)
480-156213-7		08/02/2019 05:01	1	SC080119E010.d	C-18 4.6 (mm)
480-156213-11		08/02/2019 05:09	1	SC080119E011.d	C-18 4.6 (mm)
CCV 200-145761/12		08/02/2019 05:17	1	SC080119E012.d	C-18 4.6 (mm)
480-156213-12		08/02/2019 05:25	1	SC080119E013.d	C-18 4.6 (mm)
480-156213-13		08/02/2019 05:33	1	SC080119E014.d	C-18 4.6 (mm)
480-156213-14		08/02/2019 05:41	1	SC080119E015.d	C-18 4.6 (mm)
480-156213-14 MS		08/02/2019 05:49	1	SC080119E016.d	C-18 4.6 (mm)
480-156213-14 MSD		08/02/2019 05:57	1	SC080119E017.d	C-18 4.6 (mm)
480-156213-15		08/02/2019 06:06	1	SC080119E018.d	C-18 4.6 (mm)
480-156213-16		08/02/2019 06:14	1	SC080119E019.d	C-18 4.6 (mm)
480-156213-17		08/02/2019 06:22	1	SC080119E020.d	C-18 4.6 (mm)
480-156213-18		08/02/2019 06:30	1	SC080119E021.d	C-18 4.6 (mm)
480-156213-19		08/02/2019 06:38	1	SC080119E022.d	C-18 4.6 (mm)
CCV 200-145761/24		08/02/2019 06:54	1	SC080119E024.d	C-18 4.6 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Batch Number: 145382 Batch Start Date: 07/23/19 10:21 Batch Analyst: Bourdeau, Timothy P

Batch Method: 3535 Batch End Date: 07/23/19 15:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFCIDA21 00012	LCPFAS27 MS 00011
MB 200-145382/1		3535, 537 (modified)		250 g	0 g	250 mL	0.5 mL	25 uL	
LCS 200-145382/2		3535, 537 (modified)		250 g	0 g	250 mL	0.5 mL	25 uL	25 uL
480-156213-F-1	356023-MW8B	3535, 537 (modified)	T	319.63 g	27.43 g	292.2 mL	0.5 mL	25 uL	
480-156213-F-2	356023-MW8BD	3535, 537 (modified)	T	318.27 g	27.45 g	290.8 mL	0.5 mL	25 uL	
480-156213-F-3	356023-MW16	3535, 537 (modified)	T	342.15 g	27.67 g	314.5 mL	0.5 mL	25 uL	
480-156213-F-4	356023-MW14B 150	3535, 537 (modified)	T	337.60 g	27.33 g	310.3 mL	0.5 mL	25 uL	
480-156213-F-5	356023-MW12B 190	3535, 537 (modified)	T	326.94 g	26.77 g	300.2 mL	0.5 mL	25 uL	
480-156213-F-6	356023-MW11B	3535, 537 (modified)	T	332.34 g	27.04 g	305.3 mL	0.5 mL	25 uL	
480-156213-F-7	356023-MW11C	3535, 537 (modified)	T	336.89 g	27.51 g	309.4 mL	0.5 mL	25 uL	
480-156213-F-11	356023-MW5B	3535, 537 (modified)	T	341.31 g	28.04 g	313.3 mL	0.5 mL	25 uL	
480-156213-G-12	356023-ERT4	3535, 537 (modified)	T	333.18 g	26.86 g	306.3 mL	0.5 mL	25 uL	
480-156213-F-13	356023-MW4	3535, 537 (modified)	T	338.99 g	27.48 g	311.5 mL	0.5 mL	25 uL	
480-156213-F-14	356023-MW6B	3535, 537 (modified)	T	311.86 g	27.28 g	284.6 mL	0.5 mL	25 uL	
480-156213-F-14 MS	356023-MW6B	3535, 537 (modified)	T	300.00 g	27.26 g	272.7 mL	0.5 mL	25 uL	25 uL
480-156213-F-14 MSD	356023-MW6B	3535, 537 (modified)	T	315.33 g	27.52 g	287.8 mL	0.5 mL	25 uL	25 uL
480-156213-F-15	356023-MW15B	3535, 537 (modified)	T	311.15 g	27.58 g	283.6 mL	0.5 mL	25 uL	
480-156213-F-16	356023-EB1	3535, 537 (modified)	T	332.18 g	27.41 g	304.8 mL	0.5 mL	25 uL	
480-156213-F-17	356023-MW1B	3535, 537 (modified)	T	340.19 g	26.95 g	313.2 mL	0.5 mL	25 uL	
480-156213-F-18	356023-MW5R	3535, 537 (modified)	T	326.05 g	27.38 g	298.7 mL	0.5 mL	25 uL	
480-156213-F-19	356023-MW7R	3535, 537 (modified)	T	333.99 g	27.12 g	306.9 mL	0.5 mL	25 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Batch Number: 145382 Batch Start Date: 07/23/19 10:21 Batch Analyst: Bourdeau, Timothy P

Batch Method: 3535 Batch End Date: 07/23/19 15:59

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSuppIDA 00001	PFAS21 IS Stk 00010				
MB 200-145382/1		3535, 537 (modified)		25 uL	5 uL				
LCS 200-145382/2		3535, 537 (modified)		25 uL	5 uL				
480-156213-F-1	356023-MW8B	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-2	356023-MW8BD	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-3	356023-MW16	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-4	356023-MW14B 150	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-5	356023-MW12B 190	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-6	356023-MW11B	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-7	356023-MW11C	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-11	356023-MW5B	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-G-12	356023-ERT4	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-13	356023-MW4	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-14	356023-MW6B	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-14 MS	356023-MW6B	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-14 MSD	356023-MW6B	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-15	356023-MW15B	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-16	356023-EB1	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-17	356023-MW1B	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-18	356023-MW5R	3535, 537 (modified)	T	25 uL	5 uL				
480-156213-F-19	356023-MW7R	3535, 537 (modified)	T	25 uL	5 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-156213-1

SDG No.: \_\_\_\_\_

Batch Number: 145382 Batch Start Date: 07/23/19 10:21 Batch Analyst: Bourdeau, Timothy P

Batch Method: 3535 Batch End Date: 07/23/19 15:59

Batch Notes	
Balance ID	M02926
First End time	07/23/2019 11:45
Manifold ID	IDA 3 & 4
Rinse Solvent Lot	1294588
Rinse Solvent Name	Hexane
Solvent Lot #	1299627
Solvent Name	Methanol (0.3% NH4OH)
SPE Cartridge Lot ID	Lot 004539007A
SPE Cartridge Type	Oasis WAX 500mg
Analyst ID - Spike Analyst	TPB
Analyst ID - Spike Witness Analyst	AH
First Start time	07/23/2019 11:15

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents

**Client Information**  
 Client Contact: Julie Ricardi  
 Company: Wood E&I Solutions Inc  
 Address: 511 Congress Street  
 City: Portland  
 State, Zip: ME, 04112  
 Phone: 207-828-3608 (S Ricardi)  
 Email: julie.ricardi@woodpic.com  
 Project Name: Mohonk Rd. #356023 - PFAS  
 Site: Mohonk LTM - N-1502C

**Lab PM:** Stone, Judy L  
**E-Mail:** judy.stone@testamericainc.com  
**Lab No:** 480-132335-29845.1  
**Page:** Page 1 of 2  
**Job #:**

**Analysis Requested**

**Due Date Requested:**

**TAT Requested (days):**

**PO #:** CallOut 136396  
**WO #:**

**Project #:** 48020492  
**SSOW#:**

**Field Filtered Sample (Yes or No)**  **Perform MS/MSD (Yes or No)**   
**8260C - TCL list VOAs**  **8270D - SIM\_MS\_ID - 1,4-Dioxane**   
**8260C - TCL list OLM04.2**  **8260C - TCL list OLM04.2**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list VOAs	8270D - SIM_MS_ID - 1,4-Dioxane	8260C - TCL list OLM04.2	Total Number of Containers	Special Instructions/Note:
356023 - MW 8B	7/9/19	1320	G	Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 8BD		1320		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 16		1710		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 14B150		1150		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 11B		1727		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 11C	7/10/19	1137		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 1801		1523		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 1802	11/1	1110		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 1803		1170		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 5B		1130		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	3	2	2		
356023 - MW 5B	7/11/19	1310		Water		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2	2	2		

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**Deliverable Requested:** I, II, III, IV, Other (specify) *Custodian B De Liversible*

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements:** *Equisez (include test book)*

**Method of Shipment:**

**Relinquished by:** *Jenny Hult*  
**Relinquished by:** *Paul Gordon*  
**Relinquished by:**

**Date/Time:** 7/12/19 1445  
 Date/Time: 7/12/19 1700  
 Date/Time:

**Company:** WOOD  
 Company: ETA  
 Company:

**Received by:** *Paul Gordon*  
**Received by:**  
**Received by:**

**Date/Time:** 7/12/19 1445  
 Date/Time: 7/13/19 0900  
 Date/Time:

**Company:** ETA  
 Company: TAB  
 Company:

**Cooler Temperature(s) °C and Other Remarks:** *2.5 3.1 2.0 2.9 #1*

<b>Client Information</b> Client Contact: Julie Ricardi Company: Wood E&I Solutions Inc Address: 511 Congress Street City: Portland State, Zip: ME, 04112 Phone: 207-828-3608 (J. Ricardi) Email: julie.ricardi@woodpic.com Project Name: Mohonk Rd. #356023 - PFAS Site: Mohonk LTM - NYSDEC		Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Carrier Tracking No(s): COC No: 480-132335-29845.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: CallOut 136396 WO #:		Analysis Requested 8260C - TCL list VOAs 8270D_SIM_MS_ID - 1,4-Dioxane PFC_IDA - PFAS, Standard List (21 Analytes) 8260C - TCL list OLM04.2 Total Number of Containers:	
Sample Identification 356023 - ERT4 356023 - MW4 356023 - MW6B 356023 - MW15B 356023 - EB1 356023 - MW1B 356023 - MW5R 356023 - MW7R 356023 - TB1 356023		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8260C - TCL list VOAs 8270D_SIM_MS_ID - 1,4-Dioxane PFC_IDA - PFAS, Standard List (21 Analytes) 8260C - TCL list OLM04.2 Special Instructions/Note: Extra volume for ms/msd Equis Blank	
Sample Date 7/11/19 ↓ 7/12/19		Sample Time 1120 1447 1315 0930 0945 1115 1110 1130 1200	
Sample Type (C=comp, G=grab) G G G G G G G G G		Matrix (W=water, S=solid, O=oil, BT=tissue, A=air) Water Water Water Water Water Water Water Water Water	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify) <b>Catsyng B Delivarible</b>			
Empty Kit Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i>		Date: 7/12/19 1445 Date: 7/12/19 1700 Date:	
Relinquished by: <i>[Signature]</i> Relinquished by: <i>[Signature]</i>		Date: 7/12/19 1445 Date: 7/13/19 0900 Date:	
Relinquished by: <i>[Signature]</i>		Date: 7/12/19 1445 Date: 7/13/19 0900 Date:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:	



# Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-156213-1

**Login Number: 156213**  
**List Number: 1**  
**Creator: Harper, Marcus D**

**List Source: Eurofins TestAmerica, Buffalo**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	WOOD
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

# Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-156213-1

**Login Number: 156213**  
**List Number: 2**  
**Creator: Lavigne, Scott M**

**List Source: Eurofins TestAmerica, Burlington**  
**List Creation: 07/17/19 09:43 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1130695
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.9°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**ATTACHMENT A-3**  
Laboratory Groundwater Results – LTM 2022

February 07, 2022

Nicole Bonsteel  
Wood Plc

RE: Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

Dear Nicole Bonsteel:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lea Sherman  
lea.sherman@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Jenelle P Gaylord, NYSDEC  
Charlie Gregory, NYDEC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW8B	Lab ID: 70201589001	Collected: 01/18/22 15:35	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 20:34	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 20:34	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 20:34	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 20:34	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 20:34	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 20:34	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:34	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 20:34	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 20:34	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:34	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 20:34	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 20:34	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:34	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:34	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 20:34	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 20:34	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 20:34	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 20:34	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 20:34	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 20:34	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 20:34	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 20:34	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 20:34	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 20:34	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:34	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 20:34	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 20:34	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 20:34	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 20:34	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 20:34	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 20:34	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 20:34	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 20:34	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 20:34	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 20:34	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 20:34	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 20:34	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 20:34	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 20:34	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 20:34	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		01/31/22 20:34	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 20:34	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 20:34	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 20:34	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 20:34	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 20:34	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

<b>Sample: 356023 - MW8B</b>		<b>Lab ID: 70201589001</b>		Collected: 01/18/22 15:35	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 20:34	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 20:34	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		01/31/22 20:34	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		01/31/22 20:34	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		01/31/22 20:34	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW14B	Lab ID: 70201589002	Collected: 01/18/22 16:55	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 20:55	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 20:55	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 20:55	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 20:55	76-13-1	
1,1-Dichloroethane	1.8	ug/L	1.0	1		01/31/22 20:55	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 20:55	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:55	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 20:55	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 20:55	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:55	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 20:55	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 20:55	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:55	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:55	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 20:55	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 20:55	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 20:55	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 20:55	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 20:55	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 20:55	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 20:55	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 20:55	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 20:55	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 20:55	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 20:55	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 20:55	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 20:55	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 20:55	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 20:55	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 20:55	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 20:55	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 20:55	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 20:55	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 20:55	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 20:55	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 20:55	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 20:55	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 20:55	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 20:55	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 20:55	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		01/31/22 20:55	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 20:55	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 20:55	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 20:55	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 20:55	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 20:55	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW14B		Lab ID: 70201589002		Collected: 01/18/22 16:55	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 20:55	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 20:55	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		01/31/22 20:55	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		01/31/22 20:55	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		01/31/22 20:55	2037-26-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW10B	Lab ID: 70201589003	Collected: 01/19/22 10:10	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:16	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 21:16	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:16	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 21:16	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:16	75-34-3	M1
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:16	75-35-4	M1,R1
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:16	120-82-1	
1,2-Dibromo-3-chloropropane	UJ MSL <1.0	ug/L	1.0	1		01/31/22 21:16	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 21:16	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:16	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:16	107-06-2	M1
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 21:16	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:16	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:16	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 21:16	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 21:16	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 21:16	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 21:16	67-64-1	M1
Benzene	<1.0	ug/L	1.0	1		01/31/22 21:16	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 21:16	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 21:16	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 21:16	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 21:16	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 21:16	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:16	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 21:16	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 21:16	67-66-3	L1,M0
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 21:16	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 21:16	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 21:16	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 21:16	75-71-8	M1
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 21:16	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 21:16	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 21:16	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 21:16	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 21:16	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 21:16	75-09-2	L1,M0
Styrene	<1.0	ug/L	1.0	1		01/31/22 21:16	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 21:16	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 21:16	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:16	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 21:16	75-69-4	M1
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 21:16	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 21:16	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:16	156-59-2	M1
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 21:16	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW10B		Lab ID: 70201589003		Collected: 01/19/22 10:10	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:16	156-60-5	M1
trans-1,3-Dichloropropene	UJ MSL <1.0	ug/L	1.0	1		01/31/22 21:16	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	99	%	81-122	1		01/31/22 21:16	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		01/31/22 21:16	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		01/31/22 21:16	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - DUP-01	Lab ID: 70201589004	Collected: 01/19/22 00:00	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:36	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 21:36	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:36	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 21:36	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:36	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:36	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:36	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 21:36	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 21:36	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:36	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:36	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 21:36	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:36	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:36	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 21:36	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 21:36	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 21:36	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 21:36	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 21:36	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 21:36	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 21:36	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 21:36	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 21:36	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 21:36	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:36	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 21:36	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 21:36	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 21:36	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 21:36	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 21:36	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 21:36	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 21:36	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 21:36	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 21:36	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 21:36	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 21:36	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 21:36	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 21:36	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 21:36	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 21:36	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:36	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 21:36	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 21:36	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 21:36	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:36	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 21:36	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - DUP-01		Lab ID: 70201589004		Collected: 01/19/22 00:00	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:36	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 21:36	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		01/31/22 21:36	17060-07-0	
4-Bromofluorobenzene (S)	97	%	79-118	1		01/31/22 21:36	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		01/31/22 21:36	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW9B	Lab ID: 70201589005	Collected: 01/19/22 09:55	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:57	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 21:57	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:57	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 21:57	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:57	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:57	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:57	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 21:57	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 21:57	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:57	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 21:57	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 21:57	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:57	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:57	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 21:57	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 21:57	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 21:57	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 21:57	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 21:57	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 21:57	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 21:57	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 21:57	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 21:57	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 21:57	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 21:57	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 21:57	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 21:57	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 21:57	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 21:57	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 21:57	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 21:57	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 21:57	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 21:57	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 21:57	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 21:57	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 21:57	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 21:57	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 21:57	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 21:57	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 21:57	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:57	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 21:57	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 21:57	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 21:57	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:57	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 21:57	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

<b>Sample: 356023 - MW9B</b>		<b>Lab ID: 70201589005</b>		Collected: 01/19/22 09:55	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 21:57	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 21:57	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		01/31/22 21:57	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		01/31/22 21:57	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		01/31/22 21:57	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW15B	Lab ID: 70201589006	Collected: 01/19/22 14:50	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	10.2	ug/L	1.0	1		01/31/22 22:18	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 22:18	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 22:18	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 22:18	76-13-1	
1,1-Dichloroethane	9.1	ug/L	1.0	1		01/31/22 22:18	75-34-3	
1,1-Dichloroethene	19.0	ug/L	1.0	1		01/31/22 22:18	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:18	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 22:18	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 22:18	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:18	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 22:18	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 22:18	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:18	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:18	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 22:18	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 22:18	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 22:18	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 22:18	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 22:18	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 22:18	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 22:18	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 22:18	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 22:18	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 22:18	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:18	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 22:18	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 22:18	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 22:18	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 22:18	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 22:18	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 22:18	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 22:18	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 22:18	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 22:18	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 22:18	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 22:18	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 22:18	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 22:18	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 22:18	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 22:18	108-88-3	
Trichloroethene	1.4	ug/L	1.0	1		01/31/22 22:18	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 22:18	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 22:18	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 22:18	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 22:18	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 22:18	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW15B		Lab ID: 70201589006		Collected: 01/19/22 14:50	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 22:18	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 22:18	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		01/31/22 22:18	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		01/31/22 22:18	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		01/31/22 22:18	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW16	Lab ID: 70201589007	Collected: 01/19/22 15:05	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	3.2	ug/L	1.0	1		01/31/22 22:39	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 22:39	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 22:39	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 22:39	76-13-1	
1,1-Dichloroethane	1.3	ug/L	1.0	1		01/31/22 22:39	75-34-3	
1,1-Dichloroethene	6.6	ug/L	1.0	1		01/31/22 22:39	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:39	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 22:39	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 22:39	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:39	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 22:39	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 22:39	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:39	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:39	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 22:39	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 22:39	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 22:39	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 22:39	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 22:39	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 22:39	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 22:39	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 22:39	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 22:39	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 22:39	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 22:39	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 22:39	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 22:39	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 22:39	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 22:39	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 22:39	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 22:39	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 22:39	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 22:39	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 22:39	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 22:39	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 22:39	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 22:39	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 22:39	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 22:39	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 22:39	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		01/31/22 22:39	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 22:39	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 22:39	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 22:39	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 22:39	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 22:39	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

<b>Sample: 356023 - MW16</b>		<b>Lab ID: 70201589007</b>		Collected: 01/19/22 15:05	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 22:39	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 22:39	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		01/31/22 22:39	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		01/31/22 22:39	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		01/31/22 22:39	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW5R	Lab ID: 70201589008	Collected: 01/19/22 16:03	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	55.6	ug/L	1.0	1		01/31/22 23:00	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 23:00	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 23:00	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 23:00	76-13-1	
1,1-Dichloroethane	6.9	ug/L	1.0	1		01/31/22 23:00	75-34-3	
1,1-Dichloroethene	27.9	ug/L	1.0	1		01/31/22 23:00	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:00	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 23:00	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 23:00	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:00	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 23:00	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 23:00	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:00	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:00	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 23:00	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 23:00	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 23:00	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 23:00	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 23:00	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 23:00	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 23:00	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 23:00	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 23:00	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 23:00	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:00	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 23:00	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 23:00	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 23:00	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 23:00	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 23:00	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 23:00	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 23:00	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 23:00	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 23:00	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 23:00	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 23:00	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 23:00	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 23:00	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 23:00	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 23:00	108-88-3	
Trichloroethene	6.4	ug/L	1.0	1		01/31/22 23:00	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 23:00	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 23:00	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 23:00	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 23:00	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 23:00	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW5R		Lab ID: 70201589008		Collected: 01/19/22 16:03	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 23:00	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 23:00	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		01/31/22 23:00	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		01/31/22 23:00	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		01/31/22 23:00	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW7R	Lab ID: 70201589009	Collected: 01/19/22 16:13	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	57.7	ug/L	1.0	1		01/31/22 23:21	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 23:21	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 23:21	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 23:21	76-13-1	
1,1-Dichloroethane	50.0	ug/L	1.0	1		01/31/22 23:21	75-34-3	
1,1-Dichloroethene	13.2	ug/L	1.0	1		01/31/22 23:21	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:21	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 23:21	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 23:21	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:21	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 23:21	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 23:21	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:21	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:21	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 23:21	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 23:21	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 23:21	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 23:21	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 23:21	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 23:21	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 23:21	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 23:21	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 23:21	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 23:21	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:21	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 23:21	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 23:21	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 23:21	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 23:21	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 23:21	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 23:21	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 23:21	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 23:21	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 23:21	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 23:21	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 23:21	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 23:21	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 23:21	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 23:21	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 23:21	108-88-3	
Trichloroethene	1.6	ug/L	1.0	1		01/31/22 23:21	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 23:21	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 23:21	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 23:21	1330-20-7	
cis-1,2-Dichloroethene	2.0	ug/L	1.0	1		01/31/22 23:21	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 23:21	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW7R		Lab ID: 70201589009		Collected: 01/19/22 16:13	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 23:21	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 23:21	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		01/31/22 23:21	17060-07-0	
4-Bromofluorobenzene (S)	94	%	79-118	1		01/31/22 23:21	460-00-4	
Toluene-d8 (S)	94	%	82-122	1		01/31/22 23:21	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - ERT1	Lab ID: 70201589010	Collected: 01/19/22 16:23	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	47.7	ug/L	1.0	1		01/31/22 23:42	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/31/22 23:42	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/31/22 23:42	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/31/22 23:42	76-13-1	
1,1-Dichloroethane	12.4	ug/L	1.0	1		01/31/22 23:42	75-34-3	
1,1-Dichloroethene	26.3	ug/L	1.0	1		01/31/22 23:42	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:42	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/31/22 23:42	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/31/22 23:42	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:42	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/31/22 23:42	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/31/22 23:42	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:42	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:42	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/31/22 23:42	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/31/22 23:42	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/31/22 23:42	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/31/22 23:42	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/31/22 23:42	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/31/22 23:42	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/31/22 23:42	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/31/22 23:42	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		01/31/22 23:42	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/31/22 23:42	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/31/22 23:42	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/31/22 23:42	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/31/22 23:42	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		01/31/22 23:42	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/31/22 23:42	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/31/22 23:42	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/31/22 23:42	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		01/31/22 23:42	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/31/22 23:42	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/31/22 23:42	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/31/22 23:42	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/31/22 23:42	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/31/22 23:42	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		01/31/22 23:42	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/31/22 23:42	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		01/31/22 23:42	108-88-3	
Trichloroethene	6.1	ug/L	1.0	1		01/31/22 23:42	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/31/22 23:42	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/31/22 23:42	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/31/22 23:42	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 23:42	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 23:42	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - ERT1		Lab ID: 70201589010		Collected: 01/19/22 16:23	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/31/22 23:42	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/31/22 23:42	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		01/31/22 23:42	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		01/31/22 23:42	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		01/31/22 23:42	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW12B	Lab ID: 70201589011	Collected: 01/20/22 09:30	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	2.5	ug/L	1.0	1		02/01/22 00:02	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/01/22 00:02	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 00:02	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		02/01/22 00:02	76-13-1	
1,1-Dichloroethane	8.9	ug/L	1.0	1		02/01/22 00:02	75-34-3	
1,1-Dichloroethene	16.9	ug/L	1.0	1		02/01/22 00:02	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:02	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		02/01/22 00:02	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/01/22 00:02	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:02	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/01/22 00:02	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/01/22 00:02	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:02	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:02	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/01/22 00:02	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		02/01/22 00:02	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/01/22 00:02	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/01/22 00:02	67-64-1	
Benzene	<1.0	ug/L	1.0	1		02/01/22 00:02	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/01/22 00:02	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/01/22 00:02	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/01/22 00:02	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/01/22 00:02	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/01/22 00:02	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:02	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/01/22 00:02	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/01/22 00:02	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		02/01/22 00:02	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		02/01/22 00:02	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/01/22 00:02	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/01/22 00:02	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		02/01/22 00:02	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/01/22 00:02	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		02/01/22 00:02	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		02/01/22 00:02	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		02/01/22 00:02	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		02/01/22 00:02	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		02/01/22 00:02	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		02/01/22 00:02	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		02/01/22 00:02	108-88-3	
Trichloroethene	2.9	ug/L	1.0	1		02/01/22 00:02	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		02/01/22 00:02	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		02/01/22 00:02	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/01/22 00:02	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 00:02	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 00:02	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

<b>Sample: 356023 - MW12B</b>		<b>Lab ID: 70201589011</b>	Collected: 01/20/22 09:30	Received: 01/21/22 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 00:02	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 00:02	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		02/01/22 00:02	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		02/01/22 00:02	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		02/01/22 00:02	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW6B	Lab ID: 70201589012	Collected: 01/20/22 12:05	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	4.0	ug/L	1.0	1		02/01/22 00:23	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/01/22 00:23	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 00:23	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		02/01/22 00:23	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/01/22 00:23	75-34-3	
1,1-Dichloroethene	1.8	ug/L	1.0	1		02/01/22 00:23	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:23	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		02/01/22 00:23	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/01/22 00:23	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:23	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/01/22 00:23	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/01/22 00:23	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:23	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:23	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/01/22 00:23	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		02/01/22 00:23	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/01/22 00:23	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/01/22 00:23	67-64-1	
Benzene	<1.0	ug/L	1.0	1		02/01/22 00:23	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/01/22 00:23	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/01/22 00:23	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/01/22 00:23	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/01/22 00:23	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/01/22 00:23	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:23	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/01/22 00:23	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/01/22 00:23	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		02/01/22 00:23	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		02/01/22 00:23	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/01/22 00:23	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/01/22 00:23	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		02/01/22 00:23	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/01/22 00:23	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		02/01/22 00:23	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		02/01/22 00:23	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		02/01/22 00:23	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		02/01/22 00:23	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		02/01/22 00:23	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		02/01/22 00:23	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		02/01/22 00:23	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		02/01/22 00:23	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		02/01/22 00:23	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		02/01/22 00:23	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/01/22 00:23	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 00:23	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 00:23	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

<b>Sample: 356023 - MW6B</b>		<b>Lab ID: 70201589012</b>		Collected: 01/20/22 12:05	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 00:23	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 00:23	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		02/01/22 00:23	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		02/01/22 00:23	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		02/01/22 00:23	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW11B	Lab ID: 70201589013	Collected: 01/20/22 09:10	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 00:44	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/01/22 00:44	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 00:44	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		02/01/22 00:44	76-13-1	
1,1-Dichloroethane	3.5	ug/L	1.0	1		02/01/22 00:44	75-34-3	
1,1-Dichloroethene	7.0	ug/L	1.0	1		02/01/22 00:44	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:44	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		02/01/22 00:44	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/01/22 00:44	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:44	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/01/22 00:44	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/01/22 00:44	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:44	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:44	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/01/22 00:44	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		02/01/22 00:44	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/01/22 00:44	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/01/22 00:44	67-64-1	
Benzene	<1.0	ug/L	1.0	1		02/01/22 00:44	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/01/22 00:44	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/01/22 00:44	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/01/22 00:44	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/01/22 00:44	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/01/22 00:44	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/01/22 00:44	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/01/22 00:44	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/01/22 00:44	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		02/01/22 00:44	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		02/01/22 00:44	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/01/22 00:44	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/01/22 00:44	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		02/01/22 00:44	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/01/22 00:44	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		02/01/22 00:44	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		02/01/22 00:44	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		02/01/22 00:44	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		02/01/22 00:44	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		02/01/22 00:44	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		02/01/22 00:44	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		02/01/22 00:44	108-88-3	
Trichloroethene	1.1	ug/L	1.0	1		02/01/22 00:44	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		02/01/22 00:44	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		02/01/22 00:44	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/01/22 00:44	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 00:44	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 00:44	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

<b>Sample: 356023 - MW11B</b>		<b>Lab ID: 70201589013</b>		Collected: 01/20/22 09:10	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 00:44	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 00:44	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		02/01/22 00:44	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		02/01/22 00:44	460-00-4	
Toluene-d8 (S)	96	%	82-122	1		02/01/22 00:44	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW5B	Lab ID: 70201589014	Collected: 01/20/22 11:25	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	608	ug/L	5.0	5		02/01/22 17:36	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/01/22 01:05	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 01:05	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		02/01/22 01:05	76-13-1	
1,1-Dichloroethane	15.8	ug/L	1.0	1		02/01/22 01:05	75-34-3	
1,1-Dichloroethene	111	ug/L	1.0	1		02/01/22 01:05	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:05	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		02/01/22 01:05	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/01/22 01:05	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:05	95-50-1	
1,2-Dichloroethane	1.5	ug/L	1.0	1		02/01/22 01:05	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/01/22 01:05	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:05	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:05	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/01/22 01:05	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		02/01/22 01:05	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/01/22 01:05	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/01/22 01:05	67-64-1	
Benzene	<1.0	ug/L	1.0	1		02/01/22 01:05	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/01/22 01:05	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/01/22 01:05	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/01/22 01:05	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/01/22 01:05	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/01/22 01:05	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:05	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/01/22 01:05	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/01/22 01:05	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		02/01/22 01:05	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		02/01/22 01:05	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/01/22 01:05	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/01/22 01:05	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		02/01/22 01:05	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/01/22 01:05	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		02/01/22 01:05	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		02/01/22 01:05	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		02/01/22 01:05	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		02/01/22 01:05	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		02/01/22 01:05	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		02/01/22 01:05	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		02/01/22 01:05	108-88-3	
Trichloroethene	40.5	ug/L	1.0	1		02/01/22 01:05	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		02/01/22 01:05	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		02/01/22 01:05	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/01/22 01:05	1330-20-7	
cis-1,2-Dichloroethene	1.1	ug/L	1.0	1		02/01/22 01:05	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 01:05	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW5B		Lab ID: 70201589014		Collected: 01/20/22 11:25		Received: 01/21/22 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville							
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 01:05	156-60-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 01:05	10061-02-6	L2,v3	
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		02/01/22 01:05	17060-07-0		
4-Bromofluorobenzene (S)	95	%	79-118	1		02/01/22 01:05	460-00-4		
Toluene-d8 (S)	96	%	82-122	1		02/01/22 01:05	2037-26-5		

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW1B	Lab ID: 70201589015	Collected: 01/20/22 13:30	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 01:26	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/01/22 01:26	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 01:26	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		02/01/22 01:26	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/01/22 01:26	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 01:26	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:26	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		02/01/22 01:26	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/01/22 01:26	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:26	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/01/22 01:26	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/01/22 01:26	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:26	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:26	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/01/22 01:26	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		02/01/22 01:26	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/01/22 01:26	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/01/22 01:26	67-64-1	
Benzene	<1.0	ug/L	1.0	1		02/01/22 01:26	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/01/22 01:26	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/01/22 01:26	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/01/22 01:26	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/01/22 01:26	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/01/22 01:26	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:26	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/01/22 01:26	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/01/22 01:26	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		02/01/22 01:26	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		02/01/22 01:26	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/01/22 01:26	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/01/22 01:26	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		02/01/22 01:26	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/01/22 01:26	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		02/01/22 01:26	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		02/01/22 01:26	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		02/01/22 01:26	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		02/01/22 01:26	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		02/01/22 01:26	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		02/01/22 01:26	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		02/01/22 01:26	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		02/01/22 01:26	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		02/01/22 01:26	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		02/01/22 01:26	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/01/22 01:26	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 01:26	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 01:26	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW1B		Lab ID: 70201589015		Collected: 01/20/22 13:30	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 01:26	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 01:26	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	100	%	81-122	1		02/01/22 01:26	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		02/01/22 01:26	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		02/01/22 01:26	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW4	Lab ID: 70201589016	Collected: 01/20/22 14:35	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	653	ug/L	5.0	5		02/01/22 17:57	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/01/22 01:47	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 01:47	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		02/01/22 01:47	76-13-1	
1,1-Dichloroethane	28.8	ug/L	1.0	1		02/01/22 01:47	75-34-3	
1,1-Dichloroethene	144	ug/L	1.0	1		02/01/22 01:47	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:47	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		02/01/22 01:47	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/01/22 01:47	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:47	95-50-1	
1,2-Dichloroethane	1.6	ug/L	1.0	1		02/01/22 01:47	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/01/22 01:47	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:47	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:47	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/01/22 01:47	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		02/01/22 01:47	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/01/22 01:47	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/01/22 01:47	67-64-1	
Benzene	<1.0	ug/L	1.0	1		02/01/22 01:47	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/01/22 01:47	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/01/22 01:47	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/01/22 01:47	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/01/22 01:47	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/01/22 01:47	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/01/22 01:47	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/01/22 01:47	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/01/22 01:47	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		02/01/22 01:47	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		02/01/22 01:47	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/01/22 01:47	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/01/22 01:47	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		02/01/22 01:47	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/01/22 01:47	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		02/01/22 01:47	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		02/01/22 01:47	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		02/01/22 01:47	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		02/01/22 01:47	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		02/01/22 01:47	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		02/01/22 01:47	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		02/01/22 01:47	108-88-3	
Trichloroethene	253	ug/L	5.0	5		02/01/22 17:57	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		02/01/22 01:47	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		02/01/22 01:47	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/01/22 01:47	1330-20-7	
cis-1,2-Dichloroethene	8.3	ug/L	1.0	1		02/01/22 01:47	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 01:47	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - MW4		Lab ID: 70201589016		Collected: 01/20/22 14:35	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 01:47	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 01:47	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	103	%	81-122	1		02/01/22 01:47	17060-07-0	
4-Bromofluorobenzene (S)	96	%	79-118	1		02/01/22 01:47	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		02/01/22 01:47	2037-26-5	

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - ERT4	Lab ID: 70201589017	Collected: 01/20/22 17:05	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	1530	ug/L	20.0	20		02/01/22 18:18	71-55-6	M1,v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/01/22 02:08	79-34-5	
1,1,2-Trichloroethane	2.2	ug/L	1.0	1		02/01/22 02:08	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		02/01/22 02:08	76-13-1	M1,R1
1,1-Dichloroethane	J+ MSH 46.8	ug/L	1.0	1		02/01/22 02:08	75-34-3	M1
1,1-Dichloroethene	173	ug/L	20.0	20		02/01/22 18:18	75-35-4	M1,R1
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:08	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		02/01/22 02:08	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/01/22 02:08	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:08	95-50-1	
1,2-Dichloroethane	J+ MSH 3.2	ug/L	1.0	1		02/01/22 02:08	107-06-2	M1
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/01/22 02:08	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:08	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:08	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/01/22 02:08	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		02/01/22 02:08	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/01/22 02:08	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/01/22 02:08	67-64-1	M1
Benzene	<1.0	ug/L	1.0	1		02/01/22 02:08	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/01/22 02:08	75-27-4	IC,M1
Bromoform	<1.0	ug/L	1.0	1		02/01/22 02:08	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/01/22 02:08	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/01/22 02:08	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/01/22 02:08	56-23-5	M1
Chlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:08	108-90-7	
Chloroethane	1.1	ug/L	1.0	1		02/01/22 02:08	75-00-3	
Chloroform	J+ MSH 1.3	ug/L	1.0	1		02/01/22 02:08	67-66-3	L1,M0
Chloromethane	<1.0	ug/L	1.0	1		02/01/22 02:08	74-87-3	M1
Cyclohexane	<1.0	ug/L	1.0	1		02/01/22 02:08	110-82-7	M1
Dibromochloromethane	<1.0	ug/L	1.0	1		02/01/22 02:08	124-48-1	M1
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/01/22 02:08	75-71-8	M1
Ethylbenzene	<1.0	ug/L	1.0	1		02/01/22 02:08	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/01/22 02:08	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		02/01/22 02:08	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		02/01/22 02:08	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		02/01/22 02:08	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		02/01/22 02:08	75-09-2	L1,M0
Styrene	<1.0	ug/L	1.0	1		02/01/22 02:08	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		02/01/22 02:08	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		02/01/22 02:08	108-88-3	
Trichloroethene	120	ug/L	1.0	1		02/01/22 02:08	79-01-6	M1
Trichlorofluoromethane	<1.0	ug/L	1.0	1		02/01/22 02:08	75-69-4	M1
Vinyl chloride	<1.0	ug/L	1.0	1		02/01/22 02:08	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/01/22 02:08	1330-20-7	
cis-1,2-Dichloroethene	J+ MSH 4.0	ug/L	1.0	1		02/01/22 02:08	156-59-2	M1
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 02:08	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

<b>Sample: 356023 - ERT4</b>		<b>Lab ID: 70201589017</b>		Collected: 01/20/22 17:05	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 02:08	156-60-5	M1
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 02:08	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		02/01/22 02:08	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		02/01/22 02:08	460-00-4	
Toluene-d8 (S)	94	%	82-122	1		02/01/22 02:08	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - TB1	Lab ID: 70201589018	Collected: 01/20/22 00:00	Received: 01/21/22 10:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 02:28	71-55-6	v3
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		02/01/22 02:28	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		02/01/22 02:28	79-00-5	
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		02/01/22 02:28	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		02/01/22 02:28	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 02:28	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:28	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		02/01/22 02:28	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		02/01/22 02:28	106-93-4	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:28	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		02/01/22 02:28	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		02/01/22 02:28	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:28	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:28	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		02/01/22 02:28	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		02/01/22 02:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		02/01/22 02:28	108-10-1	
Acetone	<5.0	ug/L	5.0	1		02/01/22 02:28	67-64-1	
Benzene	<1.0	ug/L	1.0	1		02/01/22 02:28	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		02/01/22 02:28	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		02/01/22 02:28	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		02/01/22 02:28	74-83-9	
Carbon disulfide	<1.0	ug/L	1.0	1		02/01/22 02:28	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		02/01/22 02:28	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		02/01/22 02:28	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		02/01/22 02:28	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		02/01/22 02:28	67-66-3	L1
Chloromethane	<1.0	ug/L	1.0	1		02/01/22 02:28	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		02/01/22 02:28	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		02/01/22 02:28	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		02/01/22 02:28	75-71-8	
Ethylbenzene	<1.0	ug/L	1.0	1		02/01/22 02:28	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		02/01/22 02:28	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		02/01/22 02:28	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		02/01/22 02:28	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		02/01/22 02:28	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		02/01/22 02:28	75-09-2	L1
Styrene	<1.0	ug/L	1.0	1		02/01/22 02:28	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		02/01/22 02:28	127-18-4	v3
Toluene	<1.0	ug/L	1.0	1		02/01/22 02:28	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		02/01/22 02:28	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		02/01/22 02:28	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		02/01/22 02:28	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		02/01/22 02:28	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 02:28	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 02:28	10061-01-5	

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## ANALYTICAL RESULTS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Sample: 356023 - TB1		Lab ID: 70201589018		Collected: 01/20/22 00:00	Received: 01/21/22 10:30	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		02/01/22 02:28	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		02/01/22 02:28	10061-02-6	L2,v3
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	101	%	81-122	1		02/01/22 02:28	17060-07-0	
4-Bromofluorobenzene (S)	95	%	79-118	1		02/01/22 02:28	460-00-4	
Toluene-d8 (S)	95	%	82-122	1		02/01/22 02:28	2037-26-5	

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

QC Batch: 242652 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70201589001, 70201589002, 70201589003, 70201589004, 70201589005, 70201589006, 70201589007, 70201589008, 70201589009, 70201589010, 70201589011, 70201589012, 70201589013, 70201589014, 70201589015, 70201589016, 70201589017, 70201589018

METHOD BLANK: 1226088 Matrix: Water

Associated Lab Samples: 70201589001, 70201589002, 70201589003, 70201589004, 70201589005, 70201589006, 70201589007, 70201589008, 70201589009, 70201589010, 70201589011, 70201589012, 70201589013, 70201589014, 70201589015, 70201589016, 70201589017, 70201589018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/31/22 18:55	v3
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/31/22 18:55	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/31/22 18:55	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	01/31/22 18:55	
1,1-Dichloroethane	ug/L	<1.0	1.0	01/31/22 18:55	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/31/22 18:55	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	01/31/22 18:55	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	01/31/22 18:55	v3
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	01/31/22 18:55	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	01/31/22 18:55	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/31/22 18:55	
1,2-Dichloropropane	ug/L	<1.0	1.0	01/31/22 18:55	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	01/31/22 18:55	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	01/31/22 18:55	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/31/22 18:55	
2-Hexanone	ug/L	<5.0	5.0	01/31/22 18:55	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/31/22 18:55	
Acetone	ug/L	<5.0	5.0	01/31/22 18:55	
Benzene	ug/L	<1.0	1.0	01/31/22 18:55	
Bromodichloromethane	ug/L	<1.0	1.0	01/31/22 18:55	IC
Bromoform	ug/L	<1.0	1.0	01/31/22 18:55	
Bromomethane	ug/L	<1.0	1.0	01/31/22 18:55	
Carbon disulfide	ug/L	<1.0	1.0	01/31/22 18:55	
Carbon tetrachloride	ug/L	<1.0	1.0	01/31/22 18:55	
Chlorobenzene	ug/L	<1.0	1.0	01/31/22 18:55	
Chloroethane	ug/L	<1.0	1.0	01/31/22 18:55	
Chloroform	ug/L	<1.0	1.0	01/31/22 18:55	
Chloromethane	ug/L	<1.0	1.0	01/31/22 18:55	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	01/31/22 18:55	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	01/31/22 18:55	
Cyclohexane	ug/L	<1.0	1.0	01/31/22 18:55	
Dibromochloromethane	ug/L	<1.0	1.0	01/31/22 18:55	
Dichlorodifluoromethane	ug/L	<1.0	1.0	01/31/22 18:55	
Ethylbenzene	ug/L	<1.0	1.0	01/31/22 18:55	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	01/31/22 18:55	
Methyl acetate	ug/L	<1.0	1.0	01/31/22 18:55	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	01/31/22 18:55	

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

METHOD BLANK: 1226088

Matrix: Water

Associated Lab Samples: 70201589001, 70201589002, 70201589003, 70201589004, 70201589005, 70201589006, 70201589007, 70201589008, 70201589009, 70201589010, 70201589011, 70201589012, 70201589013, 70201589014, 70201589015, 70201589016, 70201589017, 70201589018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylcyclohexane	ug/L	<1.0	1.0	01/31/22 18:55	
Methylene Chloride	ug/L	<1.0	1.0	01/31/22 18:55	
Styrene	ug/L	<1.0	1.0	01/31/22 18:55	
Tetrachloroethene	ug/L	<1.0	1.0	01/31/22 18:55	v3
Toluene	ug/L	<1.0	1.0	01/31/22 18:55	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	01/31/22 18:55	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/31/22 18:55	v3
Trichloroethene	ug/L	<1.0	1.0	01/31/22 18:55	
Trichlorofluoromethane	ug/L	<1.0	1.0	01/31/22 18:55	
Vinyl chloride	ug/L	<1.0	1.0	01/31/22 18:55	
Xylene (Total)	ug/L	<3.0	3.0	01/31/22 18:55	
1,2-Dichloroethane-d4 (S)	%	100	81-122	01/31/22 18:55	
4-Bromofluorobenzene (S)	%	94	79-118	01/31/22 18:55	
Toluene-d8 (S)	%	96	82-122	01/31/22 18:55	

LABORATORY CONTROL SAMPLE: 1226089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.2	90	72-126	v3
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	70-127	
1,1,2-Trichloroethane	ug/L	50	52.3	105	81-119	
1,1,2-Trichlorotrifluoroethane	ug/L	50	63.8	128	54-133	
1,1-Dichloroethane	ug/L	50	62.4	125	72-126	
1,1-Dichloroethene	ug/L	50	64.8	130	66-133	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	56-141	
1,2-Dibromo-3-chloropropane	ug/L	50	36.2	72	47-133	IH,v3
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	81-123	
1,2-Dichlorobenzene	ug/L	50	48.2	96	80-117	
1,2-Dichloroethane	ug/L	50	63.9	128	69-134	
1,2-Dichloropropane	ug/L	50	53.2	106	75-125	
1,3-Dichlorobenzene	ug/L	50	48.8	98	82-116	
1,4-Dichlorobenzene	ug/L	50	48.8	98	80-117	
2-Butanone (MEK)	ug/L	50	55.0	110	33-165	
2-Hexanone	ug/L	50	51.5	103	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	56.8	114	62-131	
Acetone	ug/L	50	68.7	137	14-156	v1 Samples ND, no quals
Benzene	ug/L	50	52.7	105	78-117	
Bromodichloromethane	ug/L	50	53.3	107	80-123	IC
Bromoform	ug/L	50	45.4	91	49-138	IH
Bromomethane	ug/L	50	61.5	123	10-143	
Carbon disulfide	ug/L	50	61.9	124	66-133	
Carbon tetrachloride	ug/L	50	46.3	93	64-135	IH

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

LABORATORY CONTROL SAMPLE: 1226089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	49.4	99	79-117	
Chloroethane	ug/L	50	55.3	111	31-156	
Chloroform	ug/L	50	62.3	125	79-123	L1
Chloromethane	ug/L	50	49.2	98	39-116	
cis-1,2-Dichloroethene	ug/L	50	62.1	124	77-125	
cis-1,3-Dichloropropene	ug/L	50	47.6	95	78-131	
Cyclohexane	ug/L	50	61.1	122	53-130	
Dibromochloromethane	ug/L	50	46.4	93	65-123	
Dichlorodifluoromethane	ug/L	50	63.3	127	13-149	
Ethylbenzene	ug/L	50	49.6	99	79-115	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	74-118	
Methyl acetate	ug/L	50	58.2	116	10-214	
Methyl-tert-butyl ether	ug/L	50	49.3	99	69-118	
Methylcyclohexane	ug/L	50	49.2	98	63-124	
Methylene Chloride	ug/L	50	62.9	126	67-123	L1
Styrene	ug/L	50	51.2	102	82-121	
Tetrachloroethene	ug/L	50	42.2	84	65-120	v3
Toluene	ug/L	50	52.5	105	80-114	
trans-1,2-Dichloroethene	ug/L	50	61.3	123	74-123	
trans-1,3-Dichloropropene	ug/L	50	33.6	67	73-135	L2,v3
Trichloroethene	ug/L	50	51.7	103	79-115	
Trichlorofluoromethane	ug/L	50	65.3	131	51-136	Samples ND, no quals
Vinyl chloride	ug/L	50	54.5	109	49-118	
Xylene (Total)	ug/L	150	152	101	80-118	
1,2-Dichloroethane-d4 (S)	%			98	81-122	
4-Bromofluorobenzene (S)	%			97	79-118	
Toluene-d8 (S)	%			96	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226111

1226112

Sample ND for all analytes. Any MS/MSD %Recs greater than limits of 70 - 130 do not require quals

Parameter	Units	70201589003		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result						
1,1,1-Trichloroethane	ug/L	<1.0	50	50	45.1	46.9	90	94	72-123	4	v3	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	50.6	48.7	101	97	64-133	4		
1,1,2-Trichloroethane	ug/L	<1.0	50	50	53.7	50.5	107	101	78-120	6		
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	56.1	67.4	112	135	56-136	18		
1,1-Dichloroethane	ug/L	<1.0	50	50	74.0	69.2	148	138	70-124	7	M1	
1,1-Dichloroethene	ug/L	<1.0	50	50	56.4	70.5	113	141	61-139	22	M1,R1	
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	47.5	44.5	95	89	53-138	7		
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	30.3	32.5	61	65	32-137	7	IH,v3	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	47.3	47.6	95	95	78-121	1		
1,2-Dichlorobenzene	ug/L	<1.0	50	50	48.5	44.2	97	88	75-120	9		
1,2-Dichloroethane	ug/L	<1.0	50	50	73.2	66.4	146	133	58-138	10	M1	
1,2-Dichloropropane	ug/L	<1.0	50	50	56.8	53.2	114	106	74-122	7		
1,3-Dichlorobenzene	ug/L	<1.0	50	50	49.1	45.1	98	90	78-119	8		

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226111			1226112			Sample ND for all analytes. Any MS/MSD %Recs greater than limits of 70 - 130 do not require quals						
Parameter	Units	70201589003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,4-Dichlorobenzene	ug/L	<1.0	50	50	48.3	44.8	97	90	76-118	7		
2-Butanone (MEK)	ug/L	<5.0	50	50	61.5	57.8	123	116	33-148	6		
2-Hexanone	ug/L	<5.0	50	50	48.8	47.0	98	94	49-124	4		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	56.4	53.3	113	107	60-136	6		
Acetone	ug/L	<5.0	50	50	74.4	72.8	149	146	35-112	2	M1, v1	
Benzene	ug/L	<1.0	50	50	56.7	53.4	113	107	70-130	6		
Bromodichloromethane	ug/L	<1.0	50	50	52.9	53.5	106	107	74-122	1	IC	
Bromoform	ug/L	<1.0	50	50	40.1	42.2	80	84	39-139	5	IH	
Bromomethane	ug/L	<1.0	50	50	37.3	44.8	75	90	10-130	18		
Carbon disulfide	ug/L	<1.0	50	50	54.2	53.6	108	107	60-129	1		
Carbon tetrachloride	ug/L	<1.0	50	50	44.5	47.1	89	94	56-143	6	IH	
Chlorobenzene	ug/L	<1.0	50	50	50.4	46.7	101	93	74-122	8		
Chloroethane	ug/L	<1.0	50	50	66.8	63.0	134	126	35-146	6		
Chloroform	ug/L	<1.0	50	50	74.3	68.1	149	136	71-129	9	M0	
Chloromethane	ug/L	<1.0	50	50	55.7	52.4	111	105	29-112	6		
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	72.0	67.1	144	134	73-129	7	M1	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	46.0	46.3	92	93	67-130	1		
Cyclohexane	ug/L	<1.0	50	50	73.1	68.7	146	137	46-146	6		
Dibromochloromethane	ug/L	<1.0	50	50	41.9	43.5	84	87	55-126	4		
Dichlorodifluoromethane	ug/L	<1.0	50	50	73.4	69.4	147	139	10-123	6	M1	
Ethylbenzene	ug/L	<1.0	50	50	50.5	46.9	101	94	70-126	7		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.1	49.6	106	99	68-127	7		
Methyl acetate	ug/L	<1.0	50	50	57.3	54.4	115	109	10-260	5		
Methyl-tert-butyl ether	ug/L	<1.0	50	50	52.6	53.2	105	106	60-140	1		
Methylcyclohexane	ug/L	<1.0	50	50	55.5	55.2	111	110	66-135	1		
Methylene Chloride	ug/L	<1.0	50	50	71.6	66.1	143	132	69-117	8	M0	
Styrene	ug/L	<1.0	50	50	51.5	47.6	103	95	79-123	8		
Tetrachloroethene	ug/L	<1.0	50	50	41.6	38.7	83	77	64-124	7	v3	
Toluene	ug/L	<1.0	50	50	55.9	52.5	112	105	76-123	6		
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	71.9	67.1	144	134	69-127	7	M1	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	31.2	32.1	62	64	61-130	3	v3	
Trichloroethene	ug/L	<1.0	50	50	55.8	52.1	112	104	73-125	7		
Trichlorofluoromethane	ug/L	<1.0	50	50	75.6	72.5	151	145	59-129	4	M1	
Vinyl chloride	ug/L	<1.0	50	50	62.5	59.4	125	119	33-127	5		
Xylene (Total)	ug/L	<3.0	150	150	153	142	102	95	78-123	7		
1,2-Dichloroethane-d4 (S)	%							99	100	81-122		
4-Bromofluorobenzene (S)	%							97	97	79-118		
Toluene-d8 (S)	%							96	96	82-122		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226113			1226114			Sample conc >> 4X spike conc, no quals						
Parameter	Units	70201589017 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1-Trichloroethane	ug/L	1530	50	50	2560	2780	2050	2490	72-123	8	M1, v3	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226113			1226114								
Parameter	Units	70201589017 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	52.3	56.0	105	112	64-133	7	
1,1,2-Trichloroethane	ug/L	2.2	50	50	54.2	56.2	104	108	78-120	4	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	69.3	55.5	139	111	56-136	22	M1,R1 ND, no quals
1,1-Dichloroethane	ug/L	46.8	50	50	119	124	144	153	70-124	4	M1
1,1-Dichloroethene	ug/L	173	50	50	299	241	251	135	61-139	22	M1,R1 ND, no quals
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	45.8	49.3	92	99	53-138	7	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	47.6	52.8	95	106	32-137	10	IH,v3
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	57.5	60.7	115	121	78-121	5	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	45.7	49.3	91	99	75-120	7	
1,2-Dichloroethane	ug/L	3.2	50	50	71.1	73.1	136	140	58-138	3	M1
1,2-Dichloropropane	ug/L	<1.0	50	50	54.2	56.8	108	114	74-122	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	46.1	50.0	92	100	78-119	8	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	45.8	49.3	92	99	76-118	7	
2-Butanone (MEK)	ug/L	<5.0	50	50	62.4	62.8	125	126	33-148	1	
2-Hexanone	ug/L	<5.0	50	50	49.9	49.7	100	99	49-124	0	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	56.4	56.8	113	114	60-136	1	
Acetone	ug/L	<5.0	50	50	76.4	76.9	153	154	35-112	1	M1,v1 ND, no quals
Benzene	ug/L	<1.0	50	50	52.4	55.1	105	110	70-130	5	
Bromodichloromethane	ug/L	<1.0	50	50	67.0	74.5	134	149	74-122	11	IC,M1 ND, no quals
Bromoform	ug/L	<1.0	50	50	56.1	64.0	112	128	39-139	13	IH
Bromomethane	ug/L	<1.0	50	50	52.5	53.7	105	107	10-130	2	
Carbon disulfide	ug/L	<1.0	50	50	52.9	55.0	106	110	60-129	4	
Carbon tetrachloride	ug/L	<1.0	50	50	73.8	80.1	148	160	56-143	8	IH,M1 ND, no quals
Chlorobenzene	ug/L	<1.0	50	50	47.1	49.4	94	99	74-122	5	
Chloroethane	ug/L	1.1	50	50	63.8	65.4	125	129	35-146	3	
Chloroform	ug/L	1.3	50	50	70.0	73.4	137	144	71-129	5	M0
Chloromethane	ug/L	<1.0	50	50	54.0	57.0	108	114	29-112	5	M1
cis-1,2-Dichloroethene	ug/L	4.0	50	50	72.0	74.6	136	141	73-129	4	M1
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	58.4	63.9	117	128	67-130	9	
Cyclohexane	ug/L	<1.0	50	50	73.9	78.6	148	157	46-146	6	M1 ND, no quals
Dibromochloromethane	ug/L	<1.0	50	50	58.0	64.2	116	128	55-126	10	M1
Dichlorodifluoromethane	ug/L	<1.0	50	50	69.6	71.3	139	143	10-123	2	M1 ND, no quals
Ethylbenzene	ug/L	<1.0	50	50	47.3	50.4	95	101	70-126	6	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50.1	54.2	100	108	68-127	8	
Methyl acetate	ug/L	<1.0	50	50	59.1	60.7	118	121	10-260	3	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	56.5	60.5	113	121	60-140	7	
Methylcyclohexane	ug/L	<1.0	50	50	53.9	59.2	108	118	66-135	9	
Methylene Chloride	ug/L	<1.0	50	50	66.4	68.1	133	136	69-117	3	M0 ND, no quals
Styrene	ug/L	<1.0	50	50	48.0	51.1	96	102	79-123	6	
Tetrachloroethene	ug/L	<1.0	50	50	38.9	41.4	78	83	64-124	6	v3
Toluene	ug/L	<1.0	50	50	52.2	55.4	104	111	76-123	6	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	68.0	70.4	136	141	69-127	4	M1 ND, no quals
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	43.3	47.9	87	96	61-130	10	v3
Trichloroethene	ug/L	120	50	50	178	185	117	130	73-125	4	M1
Trichlorofluoromethane	ug/L	<1.0	50	50	72.2	75.2	144	150	59-129	4	M1 ND, no quals
Vinyl chloride	ug/L	<1.0	50	50	60.1	62.4	120	125	33-127	4	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Parameter	Units	70201589017		MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226113 1226114														
Xylene (Total)	ug/L	<3.0	150	150	143	153	95	102	78-123	7				
1,2-Dichloroethane-d4 (S)	%						98	100	81-122					
4-Bromofluorobenzene (S)	%						96	96	79-118					
Toluene-d8 (S)	%						96	95	82-122					

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

IC	The initial calibration for this compound was outside of method control limits. The result is estimated.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
v1	The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.
v3	The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HIGH FALLS NY 1/19

Pace Project No.: 70201589

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70201589001	356023 - MW8B	EPA 8260C/5030C	242652		
70201589002	356023 - MW14B	EPA 8260C/5030C	242652		
70201589003	356023 - MW10B	EPA 8260C/5030C	242652		
70201589004	356023 - DUP-01	EPA 8260C/5030C	242652		
70201589005	356023 - MW9B	EPA 8260C/5030C	242652		
70201589006	356023 - MW15B	EPA 8260C/5030C	242652		
70201589007	356023 - MW16	EPA 8260C/5030C	242652		
70201589008	356023 - MW5R	EPA 8260C/5030C	242652		
70201589009	356023 - MW7R	EPA 8260C/5030C	242652		
70201589010	356023 - ERT1	EPA 8260C/5030C	242652		
70201589011	356023 - MW12B	EPA 8260C/5030C	242652		
70201589012	356023 - MW6B	EPA 8260C/5030C	242652		
70201589013	356023 - MW11B	EPA 8260C/5030C	242652		
70201589014	356023 - MW5B	EPA 8260C/5030C	242652		
70201589015	356023 - MW1B	EPA 8260C/5030C	242652		
70201589016	356023 - MW4	EPA 8260C/5030C	242652		
70201589017	356023 - ERT4	EPA 8260C/5030C	242652		
70201589018	356023 - TB1	EPA 8260C/5030C	242652		

### REPORT OF LABORATORY ANALYSIS

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Phone: 413-525-2332  
 Fax: 413-525-6405  
 Email: info@contestlabs.com

wood E&S

Address: ~~wood~~ 300 American Metro Blvd, Suite 113  
 Phone: (619) 475-2479 (N. Bonsteel)

Project Name: High Falls, NY  
 Project Location: 7772 10116.02.XXX  
 Project Number: NICK BONSTEEL  
 Project Manager: NICK BONSTEEL

Con-Test Quote Name/Number: NICK BONSTEEL @ WOODPLC.COM  
 Invoice Recipient: NICK BONSTEEL  
 Sampled By: J. Spataro, E. MURC

Client Sample ID / Description

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
	356023-MW12B	1/20/22	1/20/22 09:30		X	6W	U
	356023-MW6B	1/20/22	1/20/22 11:05		X	6W	U
	356023-MW11B	1/20/22	1/20/22 09:10		X	6W	U
	356023-MW5B	1/20/22	1/20/22 11:25		X	6W	U
	356023-MW1B	1/20/22	1/20/22 13:30		X	6W	U
	356023-MW4	1/20/22	1/20/22 14:35		X	6W	U
	356023-ERT4	1/20/22	1/20/22 17:05		X	6W	U
	356023-TB1	1/20/22	1/20/22		X	DF	-

Comments:

356023-ERT4 has MS/MSD  
 Deliverable: CATB, VALIDATA LEVEL: CAT A

Relinquished by: (signature) <i>for spataro</i>	Date/Time: 1/20/22 19:00
Received by: (signature) <i>for spataro</i>	Date/Time: 1/21/22 10:30
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

CHAIN OF CUSTODY RECORD (New York)

39 Spruce Street  
 East Longmeadow, MA 01028

Requested Turnaround Time  
 7-Day  10-Day   
 Due Date: 30 days

Rush-Approval Required  
 1-Day  3-Day   
 2-Day  4-Day

Data Delivery  
 Format: PDF  EXCEL   
 Other:

CLP Like Data Pkg Required:

Email To: NICK BONSTEEL @ WOODPLC.COM  
 Fax To #:

Requested Turnaround Time	7-Day	10-Day	Due Date
30 days	<input type="checkbox"/>	<input type="checkbox"/>	30 days

# of Containers: 2  
 Preservation Code: MS  
 Container Code: A

ANALYSIS REQUESTED

Dissolved Metals Samples  
 Field Filtered  
 Lab to Filter

Orthophosphate Samples  
 Field Filtered  
 Lab to Filter

**WO#: 70201589**  
 PM: LS1 Due Date: 02/04/22  
 CLIENT: WOODPLC-CLIF

1 Matrix Codes:

Matrix Code	Conc Code
6W	U
6W	U
6W	U
6W	U
6W	U
6W	U
6W	U
DF	-

- 2 Preservation Codes:  
 I = Iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium Bisulfate  
 X = Sodium Hydroxide  
 T = Sodium Thiosulfate  
 O = Other (please define)

- 3 Container Codes:  
 A = Amber Glass  
 G = Glass  
 P = Plastic  
 ST = Sterile  
 V = Vial  
 S = Summa Canister  
 T = Tedlar Bag  
 O = Other (please define)

Please use the following codes to indicate possible sample concentration within the Conc Code column above:  
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Program & Regulatory Information  
 AWQ STDS  
 NYC Sewer Discharge  
 Part 360 GW (Landfill)  
 NY Restricted Use  
 NY Unrestricted Use  
 NY Part 375

Deliverables  
 Enhanced Data Package  
 NYSDEC EQUIS EDD  
 EQUIS (Standard) EDD  
 NY Regulatory EDD  
 NY Regs Hits-Only EDD

Other:  
 NELAC and AIHA-LAP, LLC Accredited

Project Entity  
 Government  
 Federal  
 City

Municipality  
 21 J  
 Brownfield

Other  
 Chromatogram  
 AIHA-LAP, LLC

PCB ONLY  
 Soxhlet  
 Non Soxhlet

Client Name:

Proj

WO#: 70201589

PM: LS1

Due Date: 02/04/22

CLIENT: WOODPLC-CLIF

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: 2889 7631 7599

Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No  N/A

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Thermometer Used: TH091

Correction Factor: 0.000

Cooler Temperature (°C): 2.8

Cooler Temperature Corrected (°C): 2.8

Temp should be above freezing to 6.0°C

USDA Regulated Soil  N/A, water sample

Date and Initials of person examining contents: EJA/2/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)?  Yes  No

Did samples originate from a foreign source including Hawaii and Puerto Rico?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Note if sediment is visible in the dissolved container.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
-Includes date/time/ID, Matrix: SL WT OIL		
All containers needing preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #		Sample #
All containers needing preservation are found to be in compliance with method recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 [water].		Initial when completed: Lot # of added preservative: Date/Time preservative added:
Per Method, VOA pH is checked after analysis		
Samples checked for dechlorination: KI starch test strips Lot #	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #		
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #		
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

## ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC  
2425 New Holland Pike  
Lancaster, PA 17601  
Tel: (717)656-2300

Laboratory Job ID: 410-70557-1  
Client Project/Site: 70201589

**For:**

Pace Analytical Services, LLC  
575 Broad Hollow Road  
Melville, New York 11747

Attn: Lea Sherman



*Authorized for release by:*  
2/2/2022 5:42:53 PM

Nicole Brown, Project Manager  
(717)471-3265  
[nicole.brown@eurofinset.com](mailto:nicole.brown@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.
  - Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.
  - Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

This report shall not be reproduced except in full, without the written approval of the laboratory.

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A handwritten signature in black ink, appearing to read "N. Brown".

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Nicole Brown  
Project Manager  
2/2/2022 5:42:53 PM



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Detection Summary . . . . .	6
Client Sample Results . . . . .	8
Surrogate Summary . . . . .	13
QC Sample Results . . . . .	14
QC Association Summary . . . . .	17
Lab Chronicle . . . . .	19
Certification Summary . . . . .	22
Method Summary . . . . .	23
Sample Summary . . . . .	24
Chain of Custody . . . . .	25
Receipt Checklists . . . . .	27

# Definitions/Glossary

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



# Case Narrative

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

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## Job ID: 410-70557-1

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### Laboratory: Eurofins Lancaster Laboratories Env, LLC

#### Narrative

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#### Job Narrative 410-70557-1

#### Receipt

The samples were received on 1/22/2022 10:02 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5°C, 0.6°C, 0.6°C, 1.2°C and 1.8°C

#### Receipt Exceptions

The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 356023 - ERT4 (410-70557-17[MS]) and 356023 - ERT4 (410-70557-17[MSD])

#### GC/MS Semi VOA

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



# Detection Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Client Sample ID: 356023 - MW8B

Lab Sample ID: 410-70557-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.53		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW14B

Lab Sample ID: 410-70557-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.5		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW10B

Lab Sample ID: 410-70557-3

No Detections.

## Client Sample ID: 356023 - DUP-01

Lab Sample ID: 410-70557-4

No Detections.

## Client Sample ID: 356023 - MW9B

Lab Sample ID: 410-70557-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.4		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW15B

Lab Sample ID: 410-70557-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.1		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW16

Lab Sample ID: 410-70557-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.76		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW5R

Lab Sample ID: 410-70557-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.8		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW7R

Lab Sample ID: 410-70557-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.5		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - ERT1

Lab Sample ID: 410-70557-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.0		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW12B

Lab Sample ID: 410-70557-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.3		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW6B

Lab Sample ID: 410-70557-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.48		0.30	0.10	ug/L	1		8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

# Detection Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Client Sample ID: 356023 - MW11B

## Lab Sample ID: 410-70557-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.2		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW5B

## Lab Sample ID: 410-70557-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.0		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - MW1B

## Lab Sample ID: 410-70557-15

No Detections.

## Client Sample ID: 356023 - MW4

## Lab Sample ID: 410-70557-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.4		0.30	0.10	ug/L	1		8270E SIM	Total/NA

## Client Sample ID: 356023 - ERT4

## Lab Sample ID: 410-70557-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.9		0.30	0.10	ug/L	1		8270E SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

# Client Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Client Sample ID: 356023 - MW8B

## Lab Sample ID: 410-70557-1

Date Collected: 01/18/22 15:35

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.53		0.30	0.10	ug/L		01/25/22 09:51	01/28/22 09:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	52		10 - 110				01/25/22 09:51	01/28/22 09:29	1
Fluoranthene-d10 (Surr)	94		47 - 128				01/25/22 09:51	01/28/22 09:29	1
1-Methylnaphthalene-d10 (Surr)	82		36 - 111				01/25/22 09:51	01/28/22 09:29	1

## Client Sample ID: 356023 - MW14B

## Lab Sample ID: 410-70557-2

Date Collected: 01/18/22 16:55

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.5		0.30	0.10	ug/L		01/25/22 09:51	01/28/22 09:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	48		10 - 110				01/25/22 09:51	01/28/22 09:59	1
Fluoranthene-d10 (Surr)	87		47 - 128				01/25/22 09:51	01/28/22 09:59	1
1-Methylnaphthalene-d10 (Surr)	75		36 - 111				01/25/22 09:51	01/28/22 09:59	1

## Client Sample ID: 356023 - MW10B

## Lab Sample ID: 410-70557-3

Date Collected: 01/19/22 10:10

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		01/26/22 10:01	01/28/22 15:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	62		10 - 110				01/26/22 10:01	01/28/22 15:57	1
Fluoranthene-d10 (Surr)	91		47 - 128				01/26/22 10:01	01/28/22 15:57	1
1-Methylnaphthalene-d10 (Surr)	79		36 - 111				01/26/22 10:01	01/28/22 15:57	1

## Client Sample ID: 356023 - DUP-01

## Lab Sample ID: 410-70557-4

Date Collected: 01/19/22 00:00

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		01/25/22 17:40	01/31/22 15:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	59		10 - 110				01/25/22 17:40	01/31/22 15:10	1
Fluoranthene-d10 (Surr)	94		47 - 128				01/25/22 17:40	01/31/22 15:10	1
1-Methylnaphthalene-d10 (Surr)	79		36 - 111				01/25/22 17:40	01/31/22 15:10	1

# Client Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Client Sample ID: 356023 - MW9B

Lab Sample ID: 410-70557-5

Date Collected: 01/19/22 09:55

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.4		0.30	0.10	ug/L		01/25/22 17:40	01/31/22 08:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	33		10 - 110				01/25/22 17:40	01/31/22 08:12	1
Fluoranthene-d10 (Surr)	101		47 - 128				01/25/22 17:40	01/31/22 08:12	1
1-Methylnaphthalene-d10 (Surr)	83		36 - 111				01/25/22 17:40	01/31/22 08:12	1

## Client Sample ID: 356023 - MW15B

Lab Sample ID: 410-70557-6

Date Collected: 01/19/22 14:50

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.1		0.30	0.10	ug/L		01/25/22 17:40	01/31/22 08:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	70		10 - 110				01/25/22 17:40	01/31/22 08:42	1
Fluoranthene-d10 (Surr)	96		47 - 128				01/25/22 17:40	01/31/22 08:42	1
1-Methylnaphthalene-d10 (Surr)	81		36 - 111				01/25/22 17:40	01/31/22 08:42	1

## Client Sample ID: 356023 - MW16

Lab Sample ID: 410-70557-7

Date Collected: 01/19/22 15:05

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.76		0.30	0.10	ug/L		01/25/22 17:40	01/31/22 09:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	79		10 - 110				01/25/22 17:40	01/31/22 09:12	1
Fluoranthene-d10 (Surr)	101		47 - 128				01/25/22 17:40	01/31/22 09:12	1
1-Methylnaphthalene-d10 (Surr)	86		36 - 111				01/25/22 17:40	01/31/22 09:12	1

## Client Sample ID: 356023 - MW5R

Lab Sample ID: 410-70557-8

Date Collected: 01/19/22 16:03

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8		0.30	0.10	ug/L		01/25/22 17:40	01/31/22 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	73		10 - 110				01/25/22 17:40	01/31/22 09:42	1
Fluoranthene-d10 (Surr)	95		47 - 128				01/25/22 17:40	01/31/22 09:42	1
1-Methylnaphthalene-d10 (Surr)	81		36 - 111				01/25/22 17:40	01/31/22 09:42	1

# Client Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Client Sample ID: 356023 - MW7R

## Lab Sample ID: 410-70557-9

Date Collected: 01/19/22 16:13

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.5		0.30	0.10	ug/L		01/25/22 17:40	01/31/22 10:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	76		10 - 110	01/25/22 17:40	01/31/22 10:11	1
Fluoranthene-d10 (Surr)	98		47 - 128	01/25/22 17:40	01/31/22 10:11	1
1-Methylnaphthalene-d10 (Surr)	87		36 - 111	01/25/22 17:40	01/31/22 10:11	1

## Client Sample ID: 356023 - ERT1

## Lab Sample ID: 410-70557-10

Date Collected: 01/19/22 16:23

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.0		0.30	0.10	ug/L		01/25/22 17:40	01/31/22 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	74		10 - 110	01/25/22 17:40	01/31/22 10:41	1
Fluoranthene-d10 (Surr)	97		47 - 128	01/25/22 17:40	01/31/22 10:41	1
1-Methylnaphthalene-d10 (Surr)	84		36 - 111	01/25/22 17:40	01/31/22 10:41	1

## Client Sample ID: 356023 - MW12B

## Lab Sample ID: 410-70557-11

Date Collected: 01/20/22 09:30

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.3		0.30	0.10	ug/L		01/26/22 18:20	01/27/22 14:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	84		10 - 110	01/26/22 18:20	01/27/22 14:41	1
Fluoranthene-d10 (Surr)	97		47 - 128	01/26/22 18:20	01/27/22 14:41	1
1-Methylnaphthalene-d10 (Surr)	86		36 - 111	01/26/22 18:20	01/27/22 14:41	1

## Client Sample ID: 356023 - MW6B

## Lab Sample ID: 410-70557-12

Date Collected: 01/20/22 12:05

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.48		0.30	0.10	ug/L		01/26/22 18:20	01/27/22 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	82		10 - 110	01/26/22 18:20	01/27/22 15:11	1
Fluoranthene-d10 (Surr)	93		47 - 128	01/26/22 18:20	01/27/22 15:11	1
1-Methylnaphthalene-d10 (Surr)	83		36 - 111	01/26/22 18:20	01/27/22 15:11	1

# Client Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Client Sample ID: 356023 - MW11B

Lab Sample ID: 410-70557-13

Date Collected: 01/20/22 09:10

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.2		0.30	0.10	ug/L		01/26/22 18:20	01/27/22 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	61		10 - 110				01/26/22 18:20	01/27/22 15:41	1
Fluoranthene-d10 (Surr)	93		47 - 128				01/26/22 18:20	01/27/22 15:41	1
1-Methylnaphthalene-d10 (Surr)	82		36 - 111				01/26/22 18:20	01/27/22 15:41	1

## Client Sample ID: 356023 - MW5B

Lab Sample ID: 410-70557-14

Date Collected: 01/20/22 11:25

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0		0.30	0.10	ug/L		01/26/22 18:20	01/27/22 16:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	84		10 - 110				01/26/22 18:20	01/27/22 16:11	1
Fluoranthene-d10 (Surr)	95		47 - 128				01/26/22 18:20	01/27/22 16:11	1
1-Methylnaphthalene-d10 (Surr)	87		36 - 111				01/26/22 18:20	01/27/22 16:11	1

## Client Sample ID: 356023 - MW1B

Lab Sample ID: 410-70557-15

Date Collected: 01/20/22 13:30

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		01/26/22 18:20	01/27/22 16:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	89		10 - 110				01/26/22 18:20	01/27/22 16:40	1
Fluoranthene-d10 (Surr)	99		47 - 128				01/26/22 18:20	01/27/22 16:40	1
1-Methylnaphthalene-d10 (Surr)	83		36 - 111				01/26/22 18:20	01/27/22 16:40	1

## Client Sample ID: 356023 - MW4

Lab Sample ID: 410-70557-16

Date Collected: 01/20/22 14:35

Matrix: Water

Date Received: 01/22/22 10:02

### Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.4		0.30	0.10	ug/L		01/27/22 09:52	02/01/22 10:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	78		10 - 110				01/27/22 09:52	02/01/22 10:57	1
Fluoranthene-d10 (Surr)	79		47 - 128				01/27/22 09:52	02/01/22 10:57	1
1-Methylnaphthalene-d10 (Surr)	74		36 - 111				01/27/22 09:52	02/01/22 10:57	1

# Client Sample Results

Client: Pace Analytical Services, LLC  
 Project/Site: 70201589

Job ID: 410-70557-1

**Client Sample ID: 356023 - ERT4**

**Lab Sample ID: 410-70557-17**

Date Collected: 01/20/22 17:05

Matrix: Water

Date Received: 01/22/22 10:02

**Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9		0.30	0.10	ug/L		01/27/22 09:52	02/01/22 09:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	71		10 - 110	01/27/22 09:52	02/01/22 09:28	1
Fluoranthene-d10 (Surr)	84		47 - 128	01/27/22 09:52	02/01/22 09:28	1
1-Methylnaphthalene-d10 (Surr)	82		36 - 111	01/27/22 09:52	02/01/22 09:28	1



# Surrogate Summary

Client: Pace Analytical Services, LLC  
 Project/Site: 70201589

Job ID: 410-70557-1

**Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

**Matrix: Water**

**Prep Type: Total/NA**

**Percent Surrogate Recovery (Acceptance Limits)**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12 (10-110)	FLN10 (47-128)	MNPd10 (36-111)
410-70557-1	356023 - MW8B	52	94	82
410-70557-2	356023 - MW14B	48	87	75
410-70557-3	356023 - MW10B	62	91	79
410-70557-3 MS	356023 - MW10B	81	94	88
410-70557-3 MSD	356023 - MW10B	72	90	83
410-70557-4	356023 - DUP-01	59	94	79
410-70557-5	356023 - MW9B	33	101	83
410-70557-6	356023 - MW15B	70	96	81
410-70557-7	356023 - MW16	79	101	86
410-70557-8	356023 - MW5R	73	95	81
410-70557-9	356023 - MW7R	76	98	87
410-70557-10	356023 - ERT1	74	97	84
410-70557-11	356023 - MW12B	84	97	86
410-70557-12	356023 - MW6B	82	93	83
410-70557-13	356023 - MW11B	61	93	82
410-70557-14	356023 - MW5B	84	95	87
410-70557-15	356023 - MW1B	89	99	83
410-70557-16	356023 - MW4	78	79	74
410-70557-17	356023 - ERT4	71	84	82
410-70557-17 MS	356023 - ERT4	78	90	80
410-70557-17 MSD	356023 - ERT4	80	84	79
LCS 410-217488/2-A	Lab Control Sample	89	87	82
LCS 410-217872/2-A	Lab Control Sample	89	89	81
LCS 410-218135/2-A	Lab Control Sample	97	94	79
LCS 410-218323/2-A	Lab Control Sample	78	76	70
MB 410-217488/1-A	Method Blank	92	93	84
MB 410-217872/1-A	Method Blank	80	88	74
MB 410-218135/1-A	Method Blank	89	90	77
MB 410-218323/1-A	Method Blank	84	86	82

**Surrogate Legend**

BAPd12 = Benzo(a)pyrene-d12 (Surr)

FLN10 = Fluoranthene-d10 (Surr)

MNPd10 = 1-Methylnaphthalene-d10 (Surr)

# QC Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Lab Sample ID: MB 410-217488/1-A**  
**Matrix: Water**  
**Analysis Batch: 218765**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 217488**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		01/25/22 09:51	01/28/22 08:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	92		10 - 110				01/25/22 09:51	01/28/22 08:29	1
Fluoranthene-d10 (Surr)	93		47 - 128				01/25/22 09:51	01/28/22 08:29	1
1-Methylnaphthalene-d10 (Surr)	84		36 - 111				01/25/22 09:51	01/28/22 08:29	1

**Lab Sample ID: LCS 410-217488/2-A**  
**Matrix: Water**  
**Analysis Batch: 218765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 217488**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	0.495		ug/L		50	23 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Benzo(a)pyrene-d12 (Surr)	89		10 - 110				
Fluoranthene-d10 (Surr)	87		47 - 128				
1-Methylnaphthalene-d10 (Surr)	82		36 - 111				

**Lab Sample ID: MB 410-217872/1-A**  
**Matrix: Water**  
**Analysis Batch: 218765**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 217872**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		01/26/22 10:01	01/28/22 11:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	80		10 - 110				01/26/22 10:01	01/28/22 11:28	1
Fluoranthene-d10 (Surr)	88		47 - 128				01/26/22 10:01	01/28/22 11:28	1
1-Methylnaphthalene-d10 (Surr)	74		36 - 111				01/26/22 10:01	01/28/22 11:28	1

**Lab Sample ID: LCS 410-217872/2-A**  
**Matrix: Water**  
**Analysis Batch: 218765**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 217872**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	0.499		ug/L		50	23 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Benzo(a)pyrene-d12 (Surr)	89		10 - 110				
Fluoranthene-d10 (Surr)	89		47 - 128				
1-Methylnaphthalene-d10 (Surr)	81		36 - 111				

# QC Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

**Lab Sample ID: 410-70557-3 MS**  
**Matrix: Water**  
**Analysis Batch: 218765**

**Client Sample ID: 356023 - MW10B**  
**Prep Type: Total/NA**  
**Prep Batch: 218772**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits	
	Result	Qualifier	Added	Result	Qualifier						
1,4-Dioxane	ND		1.00	0.502		ug/L		50		23 - 120	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MS Qualifier</b>	<b>MS Limits</b>								
Benzo(a)pyrene-d12 (Surr)	81		10 - 110								
Fluoranthene-d10 (Surr)	94		47 - 128								
1-Methylnaphthalene-d10 (Surr)	88		36 - 111								

**Lab Sample ID: 410-70557-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 218765**

**Client Sample ID: 356023 - MW10B**  
**Prep Type: Total/NA**  
**Prep Batch: 218772**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,4-Dioxane	ND		1.00	0.452		ug/L		45		23 - 120	10	30
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>									
Benzo(a)pyrene-d12 (Surr)	72		10 - 110									
Fluoranthene-d10 (Surr)	90		47 - 128									
1-Methylnaphthalene-d10 (Surr)	83		36 - 111									

**Lab Sample ID: MB 410-218135/1-A**  
**Matrix: Water**  
**Analysis Batch: 218293**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 218135**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Result	Qualifier								
1,4-Dioxane	ND		0.30	0.10	ug/L		01/26/22 18:20	01/27/22 06:15	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>							
Benzo(a)pyrene-d12 (Surr)	89		10 - 110							
Fluoranthene-d10 (Surr)	90		47 - 128							
1-Methylnaphthalene-d10 (Surr)	77		36 - 111							

**Lab Sample ID: LCS 410-218135/2-A**  
**Matrix: Water**  
**Analysis Batch: 218293**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 218135**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
		Result	Qualifier						
1,4-Dioxane	1.00	0.533		ug/L		53		23 - 120	
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>						
Benzo(a)pyrene-d12 (Surr)	97		10 - 110						
Fluoranthene-d10 (Surr)	94		47 - 128						
1-Methylnaphthalene-d10 (Surr)	79		36 - 111						

# QC Sample Results

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

**Lab Sample ID: MB 410-218323/1-A**  
**Matrix: Water**  
**Analysis Batch: 219576**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 218323**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		01/27/22 09:52	02/01/22 06:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	84		10 - 110				01/27/22 09:52	02/01/22 06:58	1
Fluoranthene-d10 (Surr)	86		47 - 128				01/27/22 09:52	02/01/22 06:58	1
1-Methylnaphthalene-d10 (Surr)	82		36 - 111				01/27/22 09:52	02/01/22 06:58	1

**Lab Sample ID: LCS 410-218323/2-A**  
**Matrix: Water**  
**Analysis Batch: 219576**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 218323**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	0.367		ug/L		37	23 - 120
Surrogate	%Recovery	Qualifier	Limits				
Benzo(a)pyrene-d12 (Surr)	78		10 - 110				
Fluoranthene-d10 (Surr)	76		47 - 128				
1-Methylnaphthalene-d10 (Surr)	70		36 - 111				

**Lab Sample ID: 410-70557-17 MS**  
**Matrix: Water**  
**Analysis Batch: 219576**

**Client Sample ID: 356023 - ERT4**  
**Prep Type: Total/NA**  
**Prep Batch: 218323**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.9		1.00	2.48		ug/L		58	23 - 120
Surrogate	%Recovery	Qualifier	Limits						
Benzo(a)pyrene-d12 (Surr)	78		10 - 110						
Fluoranthene-d10 (Surr)	90		47 - 128						
1-Methylnaphthalene-d10 (Surr)	80		36 - 111						

**Lab Sample ID: 410-70557-17 MSD**  
**Matrix: Water**  
**Analysis Batch: 219576**

**Client Sample ID: 356023 - ERT4**  
**Prep Type: Total/NA**  
**Prep Batch: 218323**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	1.9		1.00	2.29		ug/L		39	23 - 120	8	30
Surrogate	%Recovery	Qualifier	Limits								
Benzo(a)pyrene-d12 (Surr)	80		10 - 110								
Fluoranthene-d10 (Surr)	84		47 - 128								
1-Methylnaphthalene-d10 (Surr)	79		36 - 111								

# QC Association Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## GC/MS Semi VOA

### Prep Batch: 217488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-1	356023 - MW8B	Total/NA	Water	3510C	
410-70557-2	356023 - MW14B	Total/NA	Water	3510C	
MB 410-217488/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-217488/2-A	Lab Control Sample	Total/NA	Water	3510C	

### Prep Batch: 217696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-4	356023 - DUP-01	Total/NA	Water	3510C	
410-70557-5	356023 - MW9B	Total/NA	Water	3510C	
410-70557-6	356023 - MW15B	Total/NA	Water	3510C	
410-70557-7	356023 - MW16	Total/NA	Water	3510C	
410-70557-8	356023 - MW5R	Total/NA	Water	3510C	
410-70557-9	356023 - MW7R	Total/NA	Water	3510C	
410-70557-10	356023 - ERT1	Total/NA	Water	3510C	

### Prep Batch: 217872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-3	356023 - MW10B	Total/NA	Water	3510C	
MB 410-217872/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-217872/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-70557-3 MS	356023 - MW10B	Total/NA	Water	3510C	
410-70557-3 MSD	356023 - MW10B	Total/NA	Water	3510C	

### Prep Batch: 218135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-11	356023 - MW12B	Total/NA	Water	3510C	
410-70557-12	356023 - MW6B	Total/NA	Water	3510C	
410-70557-13	356023 - MW11B	Total/NA	Water	3510C	
410-70557-14	356023 - MW5B	Total/NA	Water	3510C	
410-70557-15	356023 - MW1B	Total/NA	Water	3510C	
MB 410-218135/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-218135/2-A	Lab Control Sample	Total/NA	Water	3510C	

### Analysis Batch: 218293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-11	356023 - MW12B	Total/NA	Water	8270E SIM	218135
410-70557-12	356023 - MW6B	Total/NA	Water	8270E SIM	218135
410-70557-13	356023 - MW11B	Total/NA	Water	8270E SIM	218135
410-70557-14	356023 - MW5B	Total/NA	Water	8270E SIM	218135
410-70557-15	356023 - MW1B	Total/NA	Water	8270E SIM	218135
MB 410-218135/1-A	Method Blank	Total/NA	Water	8270E SIM	218135
LCS 410-218135/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	218135

### Prep Batch: 218323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-16	356023 - MW4	Total/NA	Water	3510C	
410-70557-17	356023 - ERT4	Total/NA	Water	3510C	
MB 410-218323/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-218323/2-A	Lab Control Sample	Total/NA	Water	3510C	
410-70557-17 MS	356023 - ERT4	Total/NA	Water	3510C	
410-70557-17 MSD	356023 - ERT4	Total/NA	Water	3510C	

Eurofins Lancaster Laboratories Env, LLC

# QC Association Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## GC/MS Semi VOA

### Analysis Batch: 218765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-1	356023 - MW8B	Total/NA	Water	8270E SIM	217488
410-70557-2	356023 - MW14B	Total/NA	Water	8270E SIM	217488
410-70557-3	356023 - MW10B	Total/NA	Water	8270E SIM	217872
MB 410-217488/1-A	Method Blank	Total/NA	Water	8270E SIM	217488
MB 410-217872/1-A	Method Blank	Total/NA	Water	8270E SIM	217872
LCS 410-217488/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	217488
LCS 410-217872/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	217872
410-70557-3 MS	356023 - MW10B	Total/NA	Water	8270E SIM	217872
410-70557-3 MSD	356023 - MW10B	Total/NA	Water	8270E SIM	217872

### Analysis Batch: 219185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-4	356023 - DUP-01	Total/NA	Water	8270E SIM	217696
410-70557-5	356023 - MW9B	Total/NA	Water	8270E SIM	217696
410-70557-6	356023 - MW15B	Total/NA	Water	8270E SIM	217696
410-70557-7	356023 - MW16	Total/NA	Water	8270E SIM	217696
410-70557-8	356023 - MW5R	Total/NA	Water	8270E SIM	217696
410-70557-9	356023 - MW7R	Total/NA	Water	8270E SIM	217696
410-70557-10	356023 - ERT1	Total/NA	Water	8270E SIM	217696

### Analysis Batch: 219576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70557-16	356023 - MW4	Total/NA	Water	8270E SIM	218323
410-70557-17	356023 - ERT4	Total/NA	Water	8270E SIM	218323
MB 410-218323/1-A	Method Blank	Total/NA	Water	8270E SIM	218323
LCS 410-218323/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	218323
410-70557-17 MS	356023 - ERT4	Total/NA	Water	8270E SIM	218323
410-70557-17 MSD	356023 - ERT4	Total/NA	Water	8270E SIM	218323

# Lab Chronicle

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

**Client Sample ID: 356023 - MW8B**

**Lab Sample ID: 410-70557-1**

Date Collected: 01/18/22 15:35

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217488	01/25/22 09:51	BLX5	ELLE
Total/NA	Analysis	8270E SIM		1	218765	01/28/22 09:29	X3ZL	ELLE

**Client Sample ID: 356023 - MW14B**

**Lab Sample ID: 410-70557-2**

Date Collected: 01/18/22 16:55

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217488	01/25/22 09:51	BLX5	ELLE
Total/NA	Analysis	8270E SIM		1	218765	01/28/22 09:59	X3ZL	ELLE

**Client Sample ID: 356023 - MW10B**

**Lab Sample ID: 410-70557-3**

Date Collected: 01/19/22 10:10

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217872	01/26/22 10:01	BLX5	ELLE
Total/NA	Analysis	8270E SIM		1	218765	01/28/22 15:57	X3ZL	ELLE

**Client Sample ID: 356023 - DUP-01**

**Lab Sample ID: 410-70557-4**

Date Collected: 01/19/22 00:00

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217696	01/25/22 17:40	MD4W	ELLE
Total/NA	Analysis	8270E SIM		1	219185	01/31/22 15:10	UJM0	ELLE

**Client Sample ID: 356023 - MW9B**

**Lab Sample ID: 410-70557-5**

Date Collected: 01/19/22 09:55

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217696	01/25/22 17:40	MD4W	ELLE
Total/NA	Analysis	8270E SIM		1	219185	01/31/22 08:12	UJM0	ELLE

**Client Sample ID: 356023 - MW15B**

**Lab Sample ID: 410-70557-6**

Date Collected: 01/19/22 14:50

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217696	01/25/22 17:40	MD4W	ELLE
Total/NA	Analysis	8270E SIM		1	219185	01/31/22 08:42	UJM0	ELLE

# Lab Chronicle

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

**Client Sample ID: 356023 - MW16**

**Lab Sample ID: 410-70557-7**

Date Collected: 01/19/22 15:05

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217696	01/25/22 17:40	MD4W	ELLE
Total/NA	Analysis	8270E SIM		1	219185	01/31/22 09:12	UJM0	ELLE

**Client Sample ID: 356023 - MW5R**

**Lab Sample ID: 410-70557-8**

Date Collected: 01/19/22 16:03

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217696	01/25/22 17:40	MD4W	ELLE
Total/NA	Analysis	8270E SIM		1	219185	01/31/22 09:42	UJM0	ELLE

**Client Sample ID: 356023 - MW7R**

**Lab Sample ID: 410-70557-9**

Date Collected: 01/19/22 16:13

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217696	01/25/22 17:40	MD4W	ELLE
Total/NA	Analysis	8270E SIM		1	219185	01/31/22 10:11	UJM0	ELLE

**Client Sample ID: 356023 - ERT1**

**Lab Sample ID: 410-70557-10**

Date Collected: 01/19/22 16:23

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			217696	01/25/22 17:40	MD4W	ELLE
Total/NA	Analysis	8270E SIM		1	219185	01/31/22 10:41	UJM0	ELLE

**Client Sample ID: 356023 - MW12B**

**Lab Sample ID: 410-70557-11**

Date Collected: 01/20/22 09:30

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			218135	01/26/22 18:20	QQ3P	ELLE
Total/NA	Analysis	8270E SIM		1	218293	01/27/22 14:41	UWHS	ELLE

**Client Sample ID: 356023 - MW6B**

**Lab Sample ID: 410-70557-12**

Date Collected: 01/20/22 12:05

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			218135	01/26/22 18:20	QQ3P	ELLE
Total/NA	Analysis	8270E SIM		1	218293	01/27/22 15:11	UWHS	ELLE



# Lab Chronicle

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Client Sample ID: 356023 - MW11B

Lab Sample ID: 410-70557-13

Date Collected: 01/20/22 09:10

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			218135	01/26/22 18:20	QQ3P	ELLE
Total/NA	Analysis	8270E SIM		1	218293	01/27/22 15:41	UWHS	ELLE

## Client Sample ID: 356023 - MW5B

Lab Sample ID: 410-70557-14

Date Collected: 01/20/22 11:25

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			218135	01/26/22 18:20	QQ3P	ELLE
Total/NA	Analysis	8270E SIM		1	218293	01/27/22 16:11	UWHS	ELLE

## Client Sample ID: 356023 - MW1B

Lab Sample ID: 410-70557-15

Date Collected: 01/20/22 13:30

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			218135	01/26/22 18:20	QQ3P	ELLE
Total/NA	Analysis	8270E SIM		1	218293	01/27/22 16:40	UWHS	ELLE

## Client Sample ID: 356023 - MW4

Lab Sample ID: 410-70557-16

Date Collected: 01/20/22 14:35

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			218323	01/27/22 09:52	XPN5	ELLE
Total/NA	Analysis	8270E SIM		1	219576	02/01/22 10:57	UJM0	ELLE

## Client Sample ID: 356023 - ERT4

Lab Sample ID: 410-70557-17

Date Collected: 01/20/22 17:05

Matrix: Water

Date Received: 01/22/22 10:02

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			218323	01/27/22 09:52	XPN5	ELLE
Total/NA	Analysis	8270E SIM		1	219576	02/01/22 09:28	UJM0	ELLE

### Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

## Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10670	04-01-22

- 1
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# Method Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

Method	Method Description	Protocol	Laboratory
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE

**Protocol References:**

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

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300



# Sample Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
410-70557-1	356023 - MW8B	Water	01/18/22 15:35	01/22/22 10:02
410-70557-2	356023 - MW14B	Water	01/18/22 16:55	01/22/22 10:02
410-70557-3	356023 - MW10B	Water	01/19/22 10:10	01/22/22 10:02
410-70557-4	356023 - DUP-01	Water	01/19/22 00:00	01/22/22 10:02
410-70557-5	356023 - MW9B	Water	01/19/22 09:55	01/22/22 10:02
410-70557-6	356023 - MW15B	Water	01/19/22 14:50	01/22/22 10:02
410-70557-7	356023 - MW16	Water	01/19/22 15:05	01/22/22 10:02
410-70557-8	356023 - MW5R	Water	01/19/22 16:03	01/22/22 10:02
410-70557-9	356023 - MW7R	Water	01/19/22 16:13	01/22/22 10:02
410-70557-10	356023 - ERT1	Water	01/19/22 16:23	01/22/22 10:02
410-70557-11	356023 - MW12B	Water	01/20/22 09:30	01/22/22 10:02
410-70557-12	356023 - MW6B	Water	01/20/22 12:05	01/22/22 10:02
410-70557-13	356023 - MW11B	Water	01/20/22 09:10	01/22/22 10:02
410-70557-14	356023 - MW5B	Water	01/20/22 11:25	01/22/22 10:02
410-70557-15	356023 - MW1B	Water	01/20/22 13:30	01/22/22 10:02
410-70557-16	356023 - MW4	Water	01/20/22 14:35	01/22/22 10:02
410-70557-17	356023 - ERT4	Water	01/20/22 17:05	01/22/22 10:02



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# Chain of Custody

PASI New York Laboratory



410-70557 Chain of Custody

Workorder: 70201589

Workorder Name: HIGH FALLS NY 1/19

Results Requested By: 2/4

Report / Invoice To		Subcontract To			Requested Analy																
Lea Sherman Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: lea.sherman@pacelabs.com		Eurofins Lancaster 2425 New Holland Pike, Lancaster, PA 17605			P.O. 70201589 LS1																
State of Sample Origin: NY		Preserved Containers																			
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved																
1	356023 - MW8B	1/18/2022 15:35	70201589001	Water										X							
2	356023 - MW14B	1/18/2022 16:55	70201589002	Water										X							
3	356023 - MW10B	1/19/2022 10:10	70201589003	Water											X						
4	356023 - DUP-01	1/19/2022 00:00	70201589004	Water										X							
5	356023 - MW9B	1/19/2022 09:55	70201589005	Water										X							
6	356023 - MW15B	1/19/2022 14:50	70201589006	Water										X							
7	356023 - MW16	1/19/2022 15:05	70201589007	Water										X							
8	356023 - MW5R	1/19/2022 16:03	70201589008	Water										X							
9	356023 - MW7R	1/19/2022 16:13	70201589009	Water										X							
10	356023 - ERT1	1/19/2022 16:23	70201589010	Water										X							
11	356023 - MW12B	1/20/2022 09:30	70201589011	Water										X							
12	356023 - MW6B	1/20/2022 12:05	70201589012	Water										X							
13	356023 - MW11B	1/20/2022 09:10	70201589013	Water										X							
14	356023 - MW5B	1/20/2022 11:25	70201589014	Water										X							
15	356023 - MW1B	1/20/2022 13:30	70201589015	Water										X							
16	356023 - MW4	1/20/2022 14:35	70201589016	Water										X							
17	356023 - ERT4	1/20/2022 17:05	70201589017	Water										X							
18																					
19																					
20																					
21																					

Friday, January 21, 2022 4:12:00 PM

FMT-ALL-C-002rev.00 24f

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Transfers	Released By	Date/Time	Received By	Date/Time
1	<i>[Signature]</i>	<i>1/21/22 1:00</i>	<i>[Signature]</i>	
2				
3			<i>[Signature]</i>	<i>1/22/22 10:02</i>

Cooler Temperature on Receipt °C      Custody Seal Y or N      Received on Ice Y or N

*0.5-1.8°*

## Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 410-70557

**Login Number: 70557**

**List Source: Eurofins Lancaster Laboratories Env, LI**

**List Number: 1**

**Creator: Miller, Wesley R**

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (<math>\leq 6^{\circ}\text{C}</math>, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (<math>\leq 6^{\circ}\text{C}</math>, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	Received extra samples not listed on COC.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	

February 08, 2022

Nicole Bonsteel  
Wood Plc

RE: Project: HGIH FALLS NY 1/21  
Pace Project No.: 70201669

Dear Nicole Bonsteel:

Enclosed are the analytical results for sample(s) received by the laboratory on January 22, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses were subcontracted outside of the Pace Network. The test report from the external subcontractor is attached to this report in its entirety.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lea Sherman  
lea.sherman@pacelabs.com  
(631)694-3040  
Project Manager

Enclosures

cc: Jenelle P Gaylord, NYSDEC  
Charlie Gregory, NYDEC



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: HGIH FALLS NY 1/21

Pace Project No.: 70201669

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### **Pace Analytical Services Long Island**

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

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## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HGIH FALLS NY 1/21

Pace Project No.: 70201669

Sample: 356023 - EB1	Lab ID: 70201669001	Collected: 01/21/22 11:30	Received: 01/22/22 10:20	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/30/22 14:28	71-55-6	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/30/22 14:28	79-34-5	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/30/22 14:28	79-00-5	IC
1,1,2-Trichlorotrifluoroethane	<1.0	ug/L	1.0	1		01/30/22 14:28	76-13-1	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/30/22 14:28	75-34-3	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/30/22 14:28	75-35-4	
1,2,4-Trichlorobenzene	<1.0	ug/L	1.0	1		01/30/22 14:28	120-82-1	
1,2-Dibromo-3-chloropropane	<1.0	ug/L	1.0	1		01/30/22 14:28	96-12-8	v3
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	1		01/30/22 14:28	106-93-4	IC
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/30/22 14:28	95-50-1	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/30/22 14:28	107-06-2	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/30/22 14:28	78-87-5	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/30/22 14:28	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/30/22 14:28	106-46-7	
2-Butanone (MEK)	<5.0	ug/L	5.0	1		01/30/22 14:28	78-93-3	
2-Hexanone	<5.0	ug/L	5.0	1		01/30/22 14:28	591-78-6	
4-Methyl-2-pentanone (MIBK)	<5.0	ug/L	5.0	1		01/30/22 14:28	108-10-1	
Acetone	<5.0	ug/L	5.0	1		01/30/22 14:28	67-64-1	
Benzene	<1.0	ug/L	1.0	1		01/30/22 14:28	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/30/22 14:28	75-27-4	IC
Bromoform	<1.0	ug/L	1.0	1		01/30/22 14:28	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/30/22 14:28	74-83-9	v3
Carbon disulfide	<1.0	ug/L	1.0	1		01/30/22 14:28	75-15-0	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/30/22 14:28	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	1		01/30/22 14:28	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/30/22 14:28	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/30/22 14:28	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		01/30/22 14:28	74-87-3	
Cyclohexane	<1.0	ug/L	1.0	1		01/30/22 14:28	110-82-7	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/30/22 14:28	124-48-1	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/30/22 14:28	75-71-8	v3
Ethylbenzene	<1.0	ug/L	1.0	1		01/30/22 14:28	100-41-4	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	1		01/30/22 14:28	98-82-8	
Methyl acetate	<1.0	ug/L	1.0	1		01/30/22 14:28	79-20-9	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	1		01/30/22 14:28	1634-04-4	
Methylcyclohexane	<1.0	ug/L	1.0	1		01/30/22 14:28	108-87-2	
Methylene Chloride	<1.0	ug/L	1.0	1		01/30/22 14:28	75-09-2	
Styrene	<1.0	ug/L	1.0	1		01/30/22 14:28	100-42-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/30/22 14:28	127-18-4	
Toluene	<1.0	ug/L	1.0	1		01/30/22 14:28	108-88-3	
Trichloroethene	<1.0	ug/L	1.0	1		01/30/22 14:28	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/30/22 14:28	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/30/22 14:28	75-01-4	
Xylene (Total)	<3.0	ug/L	3.0	1		01/30/22 14:28	1330-20-7	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/30/22 14:28	156-59-2	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/30/22 14:28	10061-01-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HGIH FALLS NY 1/21

Pace Project No.: 70201669

<b>Sample: 356023 - EB1</b>		<b>Lab ID: 70201669001</b>		Collected: 01/21/22 11:30	Received: 01/22/22 10:20	Matrix: Water		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260C Volatile Organics</b>		Analytical Method: EPA 8260C/5030C Pace Analytical Services - Melville						
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/30/22 14:28	156-60-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/30/22 14:28	10061-02-6	
<b>Surrogates</b>								
1,2-Dichloroethane-d4 (S)	102	%	81-122	1		01/30/22 14:28	17060-07-0	
4-Bromofluorobenzene (S)	101	%	79-118	1		01/30/22 14:28	460-00-4	
Toluene-d8 (S)	100	%	82-122	1		01/30/22 14:28	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HGIH FALLS NY 1/21  
Pace Project No.: 70201669

QC Batch: 242512 Analysis Method: EPA 8260C/5030C  
QC Batch Method: EPA 8260C/5030C Analysis Description: 8260 MSV  
Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70201669001

METHOD BLANK: 1225512 Matrix: Water  
Associated Lab Samples: 70201669001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/30/22 11:51	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/30/22 11:51	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/30/22 11:51	IC
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	1.0	01/30/22 11:51	
1,1-Dichloroethane	ug/L	<1.0	1.0	01/30/22 11:51	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/30/22 11:51	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	01/30/22 11:51	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	01/30/22 11:51	v3
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	01/30/22 11:51	IC
1,2-Dichlorobenzene	ug/L	<1.0	1.0	01/30/22 11:51	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/30/22 11:51	
1,2-Dichloropropane	ug/L	<1.0	1.0	01/30/22 11:51	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	01/30/22 11:51	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	01/30/22 11:51	
2-Butanone (MEK)	ug/L	<5.0	5.0	01/30/22 11:51	
2-Hexanone	ug/L	<5.0	5.0	01/30/22 11:51	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	01/30/22 11:51	
Acetone	ug/L	<5.0	5.0	01/30/22 11:51	
Benzene	ug/L	<1.0	1.0	01/30/22 11:51	
Bromodichloromethane	ug/L	<1.0	1.0	01/30/22 11:51	IC
Bromoform	ug/L	<1.0	1.0	01/30/22 11:51	
Bromomethane	ug/L	<1.0	1.0	01/30/22 11:51	v3
Carbon disulfide	ug/L	<1.0	1.0	01/30/22 11:51	
Carbon tetrachloride	ug/L	<1.0	1.0	01/30/22 11:51	
Chlorobenzene	ug/L	<1.0	1.0	01/30/22 11:51	
Chloroethane	ug/L	<1.0	1.0	01/30/22 11:51	
Chloroform	ug/L	<1.0	1.0	01/30/22 11:51	
Chloromethane	ug/L	<1.0	1.0	01/30/22 11:51	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	01/30/22 11:51	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	01/30/22 11:51	
Cyclohexane	ug/L	<1.0	1.0	01/30/22 11:51	
Dibromochloromethane	ug/L	<1.0	1.0	01/30/22 11:51	
Dichlorodifluoromethane	ug/L	<1.0	1.0	01/30/22 11:51	v3
Ethylbenzene	ug/L	<1.0	1.0	01/30/22 11:51	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	01/30/22 11:51	
Methyl acetate	ug/L	<1.0	1.0	01/30/22 11:51	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	01/30/22 11:51	
Methylcyclohexane	ug/L	<1.0	1.0	01/30/22 11:51	
Methylene Chloride	ug/L	<1.0	1.0	01/30/22 11:51	
Styrene	ug/L	<1.0	1.0	01/30/22 11:51	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HGIH FALLS NY 1/21  
Pace Project No.: 70201669

METHOD BLANK: 1225512

Matrix: Water

Associated Lab Samples: 70201669001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Tetrachloroethene	ug/L	<1.0	1.0	01/30/22 11:51	
Toluene	ug/L	<1.0	1.0	01/30/22 11:51	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	01/30/22 11:51	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/30/22 11:51	
Trichloroethene	ug/L	<1.0	1.0	01/30/22 11:51	
Trichlorofluoromethane	ug/L	<1.0	1.0	01/30/22 11:51	
Vinyl chloride	ug/L	<1.0	1.0	01/30/22 11:51	
Xylene (Total)	ug/L	<3.0	3.0	01/30/22 11:51	
1,2-Dichloroethane-d4 (S)	%	102	81-122	01/30/22 11:51	
4-Bromofluorobenzene (S)	%	100	79-118	01/30/22 11:51	
Toluene-d8 (S)	%	101	82-122	01/30/22 11:51	

LABORATORY CONTROL SAMPLE: 1225513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.1	90	72-126	
1,1,2,2-Tetrachloroethane	ug/L	50	43.7	87	70-127	
1,1,2-Trichloroethane	ug/L	50	47.5	95	81-119	IC
1,1,2-Trichlorotrifluoroethane	ug/L	50	58.0	116	54-133	
1,1-Dichloroethane	ug/L	50	52.5	105	72-126	
1,1-Dichloroethene	ug/L	50	50.6	101	66-133	
1,2,4-Trichlorobenzene	ug/L	50	45.9	92	56-141	
1,2-Dibromo-3-chloropropane	ug/L	50	40.1	80	47-133	v3
1,2-Dibromoethane (EDB)	ug/L	50	45.2	90	81-123	IC
1,2-Dichlorobenzene	ug/L	50	45.9	92	80-117	
1,2-Dichloroethane	ug/L	50	53.7	107	69-134	
1,2-Dichloropropane	ug/L	50	47.1	94	75-125	
1,3-Dichlorobenzene	ug/L	50	44.8	90	82-116	
1,4-Dichlorobenzene	ug/L	50	45.6	91	80-117	
2-Butanone (MEK)	ug/L	50	49.4	99	33-165	
2-Hexanone	ug/L	50	40.5	81	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	46.1	92	62-131	
Acetone	ug/L	50	54.3	109	14-156	
Benzene	ug/L	50	47.3	95	78-117	
Bromodichloromethane	ug/L	50	45.9	92	80-123	IC
Bromoform	ug/L	50	39.8	80	49-138	
Bromomethane	ug/L	50	37.9	76	10-143	v3
Carbon disulfide	ug/L	50	47.7	95	66-133	
Carbon tetrachloride	ug/L	50	46.0	92	64-135	
Chlorobenzene	ug/L	50	43.5	87	79-117	
Chloroethane	ug/L	50	51.4	103	31-156	
Chloroform	ug/L	50	53.4	107	79-123	
Chloromethane	ug/L	50	41.8	84	39-116	
cis-1,2-Dichloroethene	ug/L	50	52.9	106	77-125	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HGIH FALLS NY 1/21  
Pace Project No.: 70201669

LABORATORY CONTROL SAMPLE: 1225513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
cis-1,3-Dichloropropene	ug/L	50	43.8	88	78-131	
Cyclohexane	ug/L	50	55.6	111	53-130	
Dibromochloromethane	ug/L	50	42.2	84	65-123	
Dichlorodifluoromethane	ug/L	50	37.9	76	13-149 v3	
Ethylbenzene	ug/L	50	44.8	90	79-115	
Isopropylbenzene (Cumene)	ug/L	50	45.9	92	74-118	
Methyl acetate	ug/L	50	53.5	107	10-214	
Methyl-tert-butyl ether	ug/L	50	51.2	102	69-118	
Methylcyclohexane	ug/L	50	54.1	108	63-124	
Methylene Chloride	ug/L	50	55.4	111	67-123	
Styrene	ug/L	50	45.2	90	82-121	
Tetrachloroethene	ug/L	50	41.5	83	65-120	
Toluene	ug/L	50	46.8	94	80-114	
trans-1,2-Dichloroethene	ug/L	50	51.4	103	74-123	
trans-1,3-Dichloropropene	ug/L	50	41.8	84	73-135	
Trichloroethene	ug/L	50	47.1	94	79-115	
Trichlorofluoromethane	ug/L	50	53.0	106	51-136	
Vinyl chloride	ug/L	50	48.9	98	49-118	
Xylene (Total)	ug/L	150	136	91	80-118	
1,2-Dichloroethane-d4 (S)	%			102	81-122	
4-Bromofluorobenzene (S)	%			104	79-118	
Toluene-d8 (S)	%			97	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1225888 1225889

Parameter	70201598001		MS	MSD	MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,1-Trichloroethane	ug/L	<1.0	50	50	44.6	42.6	89	85	72-123	5	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	40.9	38.8	82	78	64-133	5	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	44.0	41.8	88	84	78-120	5	IC
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	59.1	52.7	118	105	56-136	11	
1,1-Dichloroethane	ug/L	<1.0	50	50	50.7	46.9	101	94	70-124	8	
1,1-Dichloroethene	ug/L	<1.0	50	50	51.9	46.9	104	94	61-139	10	
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	43.4	43.0	87	86	53-138	1	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	34.6	32.6	69	65	32-137	6	v3
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	42.3	39.9	85	80	78-121	6	IC
1,2-Dichlorobenzene	ug/L	<1.0	50	50	43.6	41.9	87	84	75-120	4	
1,2-Dichloroethane	ug/L	<1.0	50	50	50.4	46.0	101	92	58-138	9	
1,2-Dichloropropane	ug/L	<1.0	50	50	45.7	42.8	91	86	74-122	6	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	43.1	41.9	86	84	78-119	3	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	43.1	41.8	86	84	76-118	3	
2-Butanone (MEK)	ug/L	<5.0	50	50	44.9	39.1	90	78	33-148	14	
2-Hexanone	ug/L	<5.0	50	50	36.6	35.5	73	71	49-124	3	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	44.0	39.6	88	79	60-136	10	
Acetone	ug/L	<5.0	50	50	48.2	38.2	96	76	35-112	23	R1

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### QUALITY CONTROL DATA

Project: HGIH FALLS NY 1/21

Pace Project No.: 70201669

Parameter	Units	1225888		1225889		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		70201598001 Result	MS Spike Conc.	MSD Spike Conc.	MSD Result							
Benzene	ug/L	<1.0	50	50	46.9	44.5	94	89	70-130	5		
Bromodichloromethane	ug/L	<1.0	50	50	43.7	41.3	87	83	74-122	6	IC	
Bromoform	ug/L	<1.0	50	50	36.5	35.4	73	71	39-139	3		
Bromomethane	ug/L	<1.0	50	50	34.6	36.7	69	73	10-130	6	v3	
Carbon disulfide	ug/L	<1.0	50	50	46.8	43.4	94	87	60-129	8		
Carbon tetrachloride	ug/L	<1.0	50	50	46.2	44.4	92	89	56-143	4		
Chlorobenzene	ug/L	<1.0	50	50	42.2	41.2	84	82	74-122	3		
Chloroethane	ug/L	<1.0	50	50	52.1	47.3	104	95	35-146	10		
Chloroform	ug/L	<1.0	50	50	51.8	47.5	104	95	71-129	9		
Chloromethane	ug/L	<1.0	50	50	47.4	44.3	95	89	29-112	7		
cis-1,2-Dichloroethene	ug/L	3.2	50	50	55.0	50.8	104	95	73-129	8		
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	39.7	38.3	79	77	67-130	4		
Cyclohexane	ug/L	<1.0	50	50	56.3	51.7	113	103	46-146	8		
Dibromochloromethane	ug/L	<1.0	50	50	39.6	38.0	79	76	55-126	4		
Dichlorodifluoromethane	ug/L	<1.0	50	50	36.8	33.9	74	68	10-123	8	v3	
Ethylbenzene	ug/L	<1.0	50	50	44.5	43.0	89	86	70-126	4		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	45.5	44.0	91	88	68-127	3		
Methyl acetate	ug/L	<1.0	50	50	45.8	40.9	92	82	10-260	11		
Methyl-tert-butyl ether	ug/L	<1.0	50	50	47.2	43.1	94	86	60-140	9		
Methylcyclohexane	ug/L	<1.0	50	50	54.7	52.9	109	106	66-135	3		
Methylene Chloride	ug/L	<1.0	50	50	51.4	46.6	103	93	69-117	10		
Styrene	ug/L	<1.0	50	50	43.5	41.9	87	84	79-123	4		
Tetrachloroethene	ug/L	9.9	50	50	52.6	52.4	85	85	64-124	0		
Toluene	ug/L	<1.0	50	50	46.1	44.6	92	89	76-123	3		
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	51.9	47.6	104	95	69-127	9		
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	36.4	35.1	73	70	61-130	3		
Trichloroethene	ug/L	3.4	50	50	49.9	47.7	93	88	73-125	5		
Trichlorofluoromethane	ug/L	<1.0	50	50	53.8	49.4	108	99	59-129	9		
Vinyl chloride	ug/L	<1.0	50	50	49.8	45.1	100	90	33-127	10		
Xylene (Total)	ug/L	<3.0	150	150	134	129	89	86	78-123	4		
1,2-Dichloroethane-d4 (S)	%						101	100	81-122			
4-Bromofluorobenzene (S)	%						104	105	79-118			
Toluene-d8 (S)	%						98	100	82-122			

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: HGIH FALLS NY 1/21

Pace Project No.: 70201669

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

IC The initial calibration for this compound was outside of method control limits. The result is estimated.

R1 RPD value was outside control limits.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HGIH FALLS NY 1/21

Pace Project No.: 70201669

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
70201669001	356023 - EB1	EPA 8260C/5030C	242512		

---

### REPORT OF LABORATORY ANALYSIS

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Client Name:

Project

WO#: 70201669

PM: LS1

Due Date: 02/07/22

CLIENT: WOODPLC-CLIF

CONTEST

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: 2890 0867 0552

Custody Seal on Cooler/Box Present:  Yes  No Seals intact:  Yes  No  N/A

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Thermometer Used: TH091

Correction Factor: 0.00

Cooler Temperature (°C): 7.4

Cooler Temperature Corrected (°C): 44

Temp should be above freezing to 6.0°C

USDA Regulated Soil  N/A, water sample

Temperature Blank Present:  Yes  No

Type of Ice:  Wet  Blue  None

Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Date and Initials of person examining contents: EJA 1/22/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)?  Yes  No

Did samples originate from a foreign source including Hawaii and Puerto Rico?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

	COMMENTS:
Chain of Custody Present: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name & Signature on COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72hr): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: (Triple volume provided for tests) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used: <input type="checkbox"/> Yes <input type="checkbox"/> No	10.
Containers Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11.
Filtered volume received for Dissolved tests <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes date/time/ID, Matrix: SL WT OIL	
All containers needing preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
pH paper Lot #	
All containers needing preservation are found to be in compliance with method recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Sample #
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis	Initial when completed: _____ Lot # of added preservative: _____ Date/Time preservative added: _____
Samples checked for dechlorination: KI starch test strips Lot # Residual chlorine strips Lot # <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
SM 4500 CN samples checked for sulfide? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #	16.
Headspace in VOA Vials (>6mm): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17.
Trip Blank Present: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Custody Seals Present: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable): _____	

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

## ANALYTICAL REPORT

Job Number: 410-70640-1

Job Description: 70201669

For:

Pace Analytical Services, LLC  
575 Broad Hollow Road  
Melville, NY 11747

Attention: Lea Sherman



Approved for release.  
Nicole Brown  
Project Manager  
2/7/2022 12:58 PM

---

Nicole Brown, Project Manager  
2425 New Holland Pike, Lancaster, PA, 17601  
(717)471-3265  
nicole.brown@eurofinset.com  
02/07/2022

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Job Number: 410-70640-1

Job Description: 70201669

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- QC results that exceed the upper limits and are associated with non-detect samples are qualified but further narration is not required since the bias is high and does not change a non-detect result. Further narration is also not required with QC blank detection when the associated sample concentration is non-detect or more than ten times the level in the blank.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

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# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	5
Report Narrative . . . . .	5
Sample Summary . . . . .	6
Detection Summary . . . . .	7
Method Summary . . . . .	8
Client Sample Results . . . . .	9
Surrogate Summary . . . . .	10
QC Sample Results . . . . .	11
Definitions . . . . .	12
QC Association . . . . .	13
Chronicle . . . . .	14
Certification Summary . . . . .	15
Organic Sample Data . . . . .	16
GC/MS Semi VOA . . . . .	16
Method 8270E SIM . . . . .	16
Method 8270E SIM QC Summary . . . . .	17
Method 8270E SIM Sample Data . . . . .	27
Standards Data . . . . .	30
Method 8270E SIM ICAL Data . . . . .	30
Method 8270E SIM CCAL Data . . . . .	102
Raw QC Data . . . . .	115
Method 8270E SIM Tune Data . . . . .	115
Method 8270E SIM Blank Data . . . . .	133
Method 8270E SIM LCS/LCSD Data . . . . .	137
Method 8270E SIM Run Logs . . . . .	145

# Table of Contents

Method 8270E SIM Prep Data .....	147
Shipping and Receiving Documents .....	149
Client Chain of Custody .....	150
Sample Receipt Checklist .....	151

**Job Narrative**  
**410-70640-1**

**Receipt**

The sample was received on 1/25/2022 10:59 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

**GC/MS Semi VOA**

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



# Sample Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201669

Job ID: 410-70640-1

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<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Collected</u>	<u>Received</u>
410-70640-1	356023 - EB1	Water	01/21/22 11:30	01/25/22 10:59

# Detection Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201669

Job ID: 410-70640-1

**Client Sample ID: 356023 - EB1**

**Lab Sample ID: 410-70640-1**

No Detections.

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201669

Job ID: 410-70640-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	ELLE
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	ELLE

**Protocol References:**

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

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Client Sample Results

Client: Pace Analytical Services, LLC  
 Project/Site: 70201669

Job ID: 410-70640-1

**Client Sample ID: 356023 - EB1**

**Lab Sample ID: 410-70640-1**

**Date Collected: 01/21/22 11:30**

**Matrix: Water**

**Date Received: 01/25/22 10:59**

**Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		01/27/22 15:04	02/02/22 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	82		10 - 110				01/27/22 15:04	02/02/22 14:07	1
Fluoranthene-d10 (Surr)	98		47 - 128				01/27/22 15:04	02/02/22 14:07	1
1-Methylnaphthalene-d10 (Surr)	85		36 - 111				01/27/22 15:04	02/02/22 14:07	1

# Surrogate Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201669

Job ID: 410-70640-1

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BAPd12 (10-110)	FLN10 (47-128)	MNPd10 (36-111)
410-70640-1	356023 - EB1	82	98	85
LCS 410-218582/2-A	Lab Control Sample	97	101	73
LCSD 410-218582/3-A	Lab Control Sample Dup	91	97	73
MB 410-218582/1-A	Method Blank	60	99	80

### Surrogate Legend

BAPd12 = Benzo(a)pyrene-d12 (Surr)

FLN10 = Fluoranthene-d10 (Surr)

MNPd10 = 1-Methylnaphthalene-d10 (Surr)

# QC Sample Results

Client: Pace Analytical Services, LLC  
 Project/Site: 70201669

Job ID: 410-70640-1

## Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

**Lab Sample ID: MB 410-218582/1-A**  
**Matrix: Water**  
**Analysis Batch: 219961**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 218582**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.30	0.10	ug/L		01/27/22 15:04	02/02/22 07:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Benzo(a)pyrene-d12 (Surr)	60		10 - 110	01/27/22 15:04	02/02/22 07:09	1
Fluoranthene-d10 (Surr)	99		47 - 128	01/27/22 15:04	02/02/22 07:09	1
1-Methylnaphthalene-d10 (Surr)	80		36 - 111	01/27/22 15:04	02/02/22 07:09	1

**Lab Sample ID: LCS 410-218582/2-A**  
**Matrix: Water**  
**Analysis Batch: 219961**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 218582**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	0.564		ug/L		56	23 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	97		10 - 110
Fluoranthene-d10 (Surr)	101		47 - 128
1-Methylnaphthalene-d10 (Surr)	73		36 - 111

**Lab Sample ID: LCSD 410-218582/3-A**  
**Matrix: Water**  
**Analysis Batch: 219961**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 218582**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	1.00	0.586		ug/L		59	23 - 120	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Benzo(a)pyrene-d12 (Surr)	91		10 - 110
Fluoranthene-d10 (Surr)	97		47 - 128
1-Methylnaphthalene-d10 (Surr)	73		36 - 111

# Definitions/Glossary

Client: Pace Analytical Services, LLC  
Project/Site: 70201669

Job ID: 410-70640-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▣	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# QC Association Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201669

Job ID: 410-70640-1

## GC/MS Semi VOA

### Prep Batch: 218582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70640-1	356023 - EB1	Total/NA	Water	3510C	
MB 410-218582/1-A	Method Blank	Total/NA	Water	3510C	
LCS 410-218582/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 410-218582/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

### Analysis Batch: 219961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-70640-1	356023 - EB1	Total/NA	Water	8270E SIM	218582
MB 410-218582/1-A	Method Blank	Total/NA	Water	8270E SIM	218582
LCS 410-218582/2-A	Lab Control Sample	Total/NA	Water	8270E SIM	218582
LCSD 410-218582/3-A	Lab Control Sample Dup	Total/NA	Water	8270E SIM	218582



# Lab Chronicle

Client: Pace Analytical Services, LLC  
Project/Site: 70201669

Job ID: 410-70640-1

**Client Sample ID: 356023 - EB1**

**Lab Sample ID: 410-70640-1**

**Date Collected: 01/21/22 11:30**

**Matrix: Water**

**Date Received: 01/25/22 10:59**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	3510C			218582	01/27/22 15:04	QQ3P	ELLE
Total/NA	Analysis	8270E SIM		1	219961	02/02/22 14:07	UJM0	ELLE

**Laboratory References:**

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

# Accreditation/Certification Summary

Client: Pace Analytical Services, LLC  
Project/Site: 70201669

Job ID: 410-70640-1

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## Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

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<b>Authority</b>	<b>Program</b>	<b>Identification Number</b>	<b>Expiration Date</b>
New York	NELAP	10670	04-01-22

# Method 8270E SIM

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Semivolatile Organic Compounds  
(GC/MS SIM) by Method 8270E

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories Job No.: 410-70640-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): DB-5MS 30m ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	MNPd10 #	FLN10 #	BAPd12 #
356023 - EB1	410-70640-1	85	98	82
	MB 410-218582/1-A	80	99	60
	LCS 410-218582/2-A	73	101	97
	LCSD 410-218582/3-A	73	97	91

MNPd10 = 1-Methylnaphthalene-d10 (Surr)	<u>QC LIMITS</u>
FLN10 = Fluoranthene-d10 (Surr)	36-111
BAPd12 = Benzo(a)pyrene-d12 (Surr)	47-128
	10-110

# Column to be used to flag recovery values

FORM II 8270E SIM

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins Lancaster Laboratories      Job No.: 410-70640-1  
Env, LLC

SDG No.: \_\_\_\_\_

Matrix: Water      Level: Low      Lab File ID: MB0053.D

Lab ID: LCS 410-218582/2-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	0.564	56	23-120	

# Column to be used to flag recovery and RPD values

FORM III  
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins Lancaster Laboratories      Job No.: 410-70640-1  
Env, LLC

SDG No.: \_\_\_\_\_

Matrix: Water      Level: Low      Lab File ID: MB0054.D

Lab ID: LCSD 410-218582/3-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	1.00	0.586	59	4	30	23-120	

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins Lancaster Laboratories      Job No.: 410-70640-1  
Env, LLC

SDG No.: \_\_\_\_\_

Lab File ID: MB0052.D      Lab Sample ID: MB 410-218582/1-A

Matrix: Water      Date Extracted: 01/27/2022 15:04

Instrument ID: HP21585      Date Analyzed: 02/02/2022 07:09

Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 410-218582/2-A	MB0053.D	02/02/2022 07:00
	LCSD 410-218582/3-A	MB0054.D	02/02/2022 08:00
356023 - EB1	410-70640-1	MB0066.D	02/02/2022 14:00

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: MA0850.D DFTPP Injection Date: 01/25/2022  
 Instrument ID: HP21585 DFTPP Injection Time: 05:27  
 Analysis Batch No.: 217423

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	28.5
68	Less than 2% of mass 69	0.6 (1.6) 1
69	Mass 69 Relative abundance	36.8
70	Less than 2% of mass 69	0.2 (0.5) 1
127	10-80% of Base Peak	40.5
197	Less than 2% of mass 198	0.2
198	Base peak	100.0
199	5-9% of mass 198	6.7
275	10-60% of Base Peak	33.0
365	Greater than 1% of mass 198	5.3
441	present but less than 24% of mass 442	29.4 (15.8) 2
442	Greater than 50% of mass 198	185.7
443	15-24% of mass 442	36.9 (19.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 410-217423/2	MA0851.D	01/25/2022	5:48
	IC 410-217423/3	MA0852.D	01/25/2022	6:30
	IC 410-217423/4	MA0853.D	01/25/2022	6:59
	IC 410-217423/5	MA0854.D	01/25/2022	7:29
	IC 410-217423/6	MA0855.D	01/25/2022	7:59
	IC 410-217423/7	MA0856.D	01/25/2022	8:29
	ICV 410-217423/9	MA0858.D	01/25/2022	9:28
	ICV 410-217423/10	MA0859.D	01/25/2022	9:58



FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: MB0050.D DFTPP Injection Date: 02/02/2022  
 Instrument ID: HP21585 DFTPP Injection Time: 06:01  
 Analysis Batch No.: 219961

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	22.4
68	Less than 2% of mass 69	0.6 (1.8) 1
69	Mass 69 Relative abundance	30.9
70	Less than 2% of mass 69	0.2 (0.6) 1
127	10-80% of Base Peak	35.0
197	Less than 2% of mass 198	0.3
198	Base peak	100.0
199	5-9% of mass 198	6.7
275	10-60% of Base Peak	35.0
365	Greater than 1% of mass 198	5.9
441	present but less than 24% of mass 442	36.7 (15.6) 2
442	Greater than 50% of mass 198	235.3
443	15-24% of mass 442	45.0 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 410-219961/2	MB0051.D	02/02/2022	6:20
	MB 410-218582/1-A	MB0052.D	02/02/2022	7:09
	LCS 410-218582/2-A	MB0053.D	02/02/2022	7:39
	LCSD 410-218582/3-A	MB0054.D	02/02/2022	8:09
356023 - EB1	410-70640-1	MB0066.D	02/02/2022	14:07

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 410-217423/2 Date Analyzed: 01/25/2022 05:48  
 Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)  
 Lab File ID (Standard): MA0851.D Heated Purge: (Y/N) N  
 Calibration ID: 34940

	DCBd4		NPT		ANT	
	AREA #	RT #	AREA #	RT #	AREA #	RT
INITIAL CALIBRATION MID-POINT	63900	6.99	207121	8.91	157490	11.69
UPPER LIMIT	127800	7.49	414242	9.41	314980	12.19
LOWER LIMIT	31950	6.49	103561	8.41	78745	11.19
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 410-217423/9	76642	6.99	256774	8.91	176881	11.69
ICV 410-217423/10	74362	7.03	256186	8.93	173410	11.69
CCVIS 410-219961/2	52325	6.95	165041	8.87	120053	11.66

DCBd4 = 1,4-Dichlorobenzene-d4  
 NPT = Naphthalene-d8  
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 410-217423/2 Date Analyzed: 01/25/2022 05:48  
 Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)  
 Lab File ID (Standard): MA0851.D Heated Purge: (Y/N) N  
 Calibration ID: 34940

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT
INITIAL CALIBRATION MID-POINT	345456	13.59	450984	17.65	533802	20.12
UPPER LIMIT	690912	14.09	901968	18.15	1067604	20.62
LOWER LIMIT	172728	13.09	225492	17.15	266901	19.62
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 410-217423/9	360391	13.58	421094	17.65	466196	20.13
ICV 410-217423/10	355226	13.59	416503	17.65	467293	20.12
CCVIS 410-219961/2	247698	13.55	363446	17.62	428138	20.09

PHN = Phenanthrene-d10  
 CRY = Chrysene-d12  
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 410-219961/2 Date Analyzed: 02/02/2022 06:20  
 Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)  
 Lab File ID (Standard): MB0051.D Heated Purge: (Y/N) N  
 Calibration ID: 34940

	DCBd4		NPT		ANT			
	AREA #	RT #	AREA #	RT #	AREA #	RT		
12/24 HOUR STD	52325	6.95	165041	8.87	120053	11.66		
UPPER LIMIT	104650	7.45	330082	9.37	240106	12.16		
LOWER LIMIT	26163	6.45	82521	8.37	60027	11.16		
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 410-218582/1-A			50861	6.95	157361	8.87	111869	11.66
LCS 410-218582/2-A			55996	6.95	174319	8.87	127145	11.66
LCSD 410-218582/3-A			60755	6.95	189719	8.87	138232	11.66
410-70640-1	356023 - EB1		56904	6.95	180976	8.87	126942	11.66

DCBd4 = 1,4-Dichlorobenzene-d4  
 NPT = Naphthalene-d8  
 ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

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

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 410-219961/2 Date Analyzed: 02/02/2022 06:20  
 Instrument ID: HP21585 GC Column: DB-5MS 30m 0.25 ID: 0.25(mm)  
 Lab File ID (Standard): MB0051.D Heated Purge: (Y/N) N  
 Calibration ID: 34940

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT	
12/24 HOUR STD	247698	13.55	363446	17.62	428138	20.09	
UPPER LIMIT	495396	14.05	726892	18.12	856276	20.59	
LOWER LIMIT	123849	13.05	181723	17.12	214069	19.59	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 410-218582/1-A		233195	13.56	310669	17.62	351445	20.10
LCS 410-218582/2-A		264511	13.55	375111	17.61	411272	20.09
LCSD 410-218582/3-A		291378	13.55	410625	17.61	443314	20.09
410-70640-1	356023 - EB1	258656	13.55	333920	17.61	335524	20.09

PHN = Phenanthrene-d10  
 CRY = Chrysene-d12  
 PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 356023 - EB1 Lab Sample ID: 410-70640-1  
 Matrix: Water Lab File ID: MB0066.D  
 Analysis Method: 8270E SIM Date Collected: 01/21/2022 11:30  
 Extract. Method: 3510C Date Extracted: 01/27/2022 15:04  
 Sample wt/vol: 250 (mL) Date Analyzed: 02/02/2022 14:07  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 219961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.30	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	82		10-110
93951-69-0	Fluoranthene-d10 (Surr)	98		47-128
38072-94-5	1-Methylnaphthalene-d10 (Surr)	85		36-111

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0066.D  
 Lims ID: 410-70640-A-1-A  
 Client ID: 356023 - EB1  
 Sample Type: Client  
 Inject. Date: 02-Feb-2022 14:07:19 ALS Bottle#: 0 Worklist Smp#: 33  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 410-70640-A-1-A  
 Misc. Info.: 410-0049546-033  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Method: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 03-Feb-2022 04:48:16 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
 Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1643

First Level Reviewer: gamblerj

Date: 03-Feb-2022 04:46:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	6.952	6.952	0.000	85	56904	0.2500	
* 5 Naphthalene-d8	136	8.869	8.869	0.000	91	180976	0.2500	
\$ 9 1-Methylnaphthalene-d10	152	10.105	10.105	0.000	99	99463	0.2131	
* 13 Acenaphthene-d10	164	11.657	11.658	-0.001	90	126942	0.2500	
* 20 Phenanthrene-d10	188	13.550	13.550	0.000	95	258656	0.2500	
\$ 24 Fluoranthene-d10 (Surr)	212	15.208	15.212	-0.005	96	317576	0.2451	
* 29 Chrysene-d12	240	17.614	17.620	-0.006	56	333920	0.2500	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.961	19.966	0.002	97	239704	0.2054	
* 38 Perylene-d12	264	20.092	20.089	0.003	97	335524	0.2500	

## QC Flag Legend

Processing Flags

## Reagents:

MSS\_RVSIM\_IS\_00022

Amount Added: 10.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0066.D

Injection Date: 02-Feb-2022 14:07:19

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: 410-70640-A-1-A

Lab Sample ID: 410-70640-1

Worklist Smp#: 33

Client ID: 356023 - EB1

Injection Vol: 1.0 ul

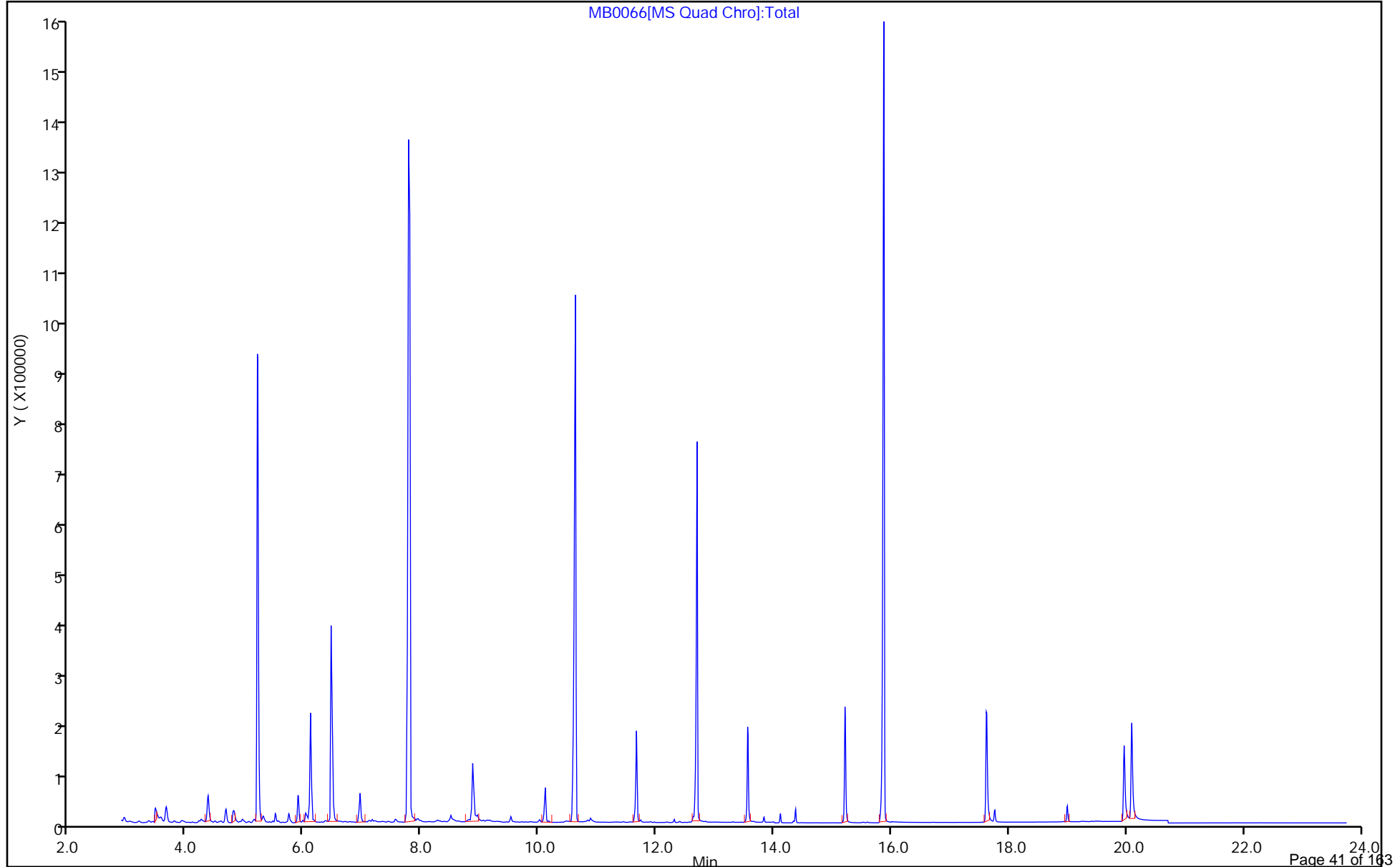
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm ( 0.25 mm)





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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-70640-1 Analy Batch No.: 217423

SDG No.: \_\_\_\_\_

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-217423/7	MA0856.D
Level 2	IC 410-217423/6	MA0855.D
Level 3	IC 410-217423/5	MA0854.D
Level 4	ICIS 410-217423/2	MA0851.D
Level 5	IC 410-217423/4	MA0853.D
Level 6	IC 410-217423/3	MA0852.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.7794 0.7733	0.7045	0.6615	0.8884	0.6424	Ave		0.741 6			12.3		20.4				
N-Nitrosodimethylamine	0.7651 0.8361	0.6805	0.7021	0.8077	0.7030	Ave		0.749 1			8.5		20.4				
Bis(2-chloroethyl) ether	0.3702 0.3632	0.3196	0.3581	0.3687	0.3574	Ave		0.356 2			5.2		20.4				
Naphthalene	1.3592 1.0396	1.0822	1.0435	1.0915	1.0029	Ave		1.103 1			11.7		20.4				
Quinoline	0.4147 0.6267	0.4625	0.5169	0.6369	0.5710	Ave		0.538 1			16.6		20.4				
2-Methylnaphthalene	0.8233 0.7686	0.7188	0.7069	0.8162	0.7071	Ave		0.756 8			7.1		20.4				
1-Methylnaphthalene	0.8425 0.7334	0.7114	0.6833	0.7692	0.6605	Ave		0.733 4			8.9		20.4				
Dimethyl phthalate	1.2888 1.2029	1.2084	1.2414	1.2884	1.2475	Ave		1.246 2			3.0		20.4				
Acenaphthylene	1.9121 1.6516	1.5296	1.5266	1.6855	1.5982	Ave		1.650 6			8.7		20.4				
Acenaphthene	1.3940 1.0564	1.1043	1.0655	1.1276	1.0481	Ave		1.132 7			11.6		20.4				
Dibenzofuran	1.9742 1.6520	1.6889	1.6288	1.8021	1.6426	Ave		1.731 4			7.8		20.4				
Diethyl phthalate	1.1670 1.1093	1.0799	1.1178	1.2258	1.1560	Ave		1.142 7			4.5		20.4				
Fluorene	1.5696 1.3455	1.3147	1.3097	1.4924	1.3296	Ave		1.393 6			7.9		20.4				
N-Nitrosodiphenylamine	0.8177 0.4295	0.4432	0.4493	0.4642	0.4251	Lin2	0.003 9	0.418 4						0.9940		0.9900	

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-70640-1 Analy Batch No.: 217423

SDG No.: \_\_\_\_\_

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobenzene	0.3126 0.2445	0.2463	0.2447	0.2617	0.2380	Ave		0.258 0			10.8		20.4				
Phenanthrene	1.4087 1.0240	1.0322	1.0232	1.0933	0.9929	Ave		1.095 7			14.3		20.4				
Anthracene	1.2003 0.9893	0.9598	0.9277	1.0617	0.9640	Ave		1.017 1			9.9		20.4				
Di-n-butyl phthalate	0.8964 0.8533	0.8261	0.9028	1.0173	0.9598	Ave		0.909 3			7.7		20.4				
Fluoranthene	1.6171 1.3164	1.2467	1.2771	1.4937	1.2989	Ave		1.375 0			10.7		20.4				
Pyrene	1.5265 1.1431	1.1390	1.1416	1.2016	1.1283	Ave		1.213 3			12.8		20.4				
Butyl benzyl phthalate	0.3365 0.3630	0.3140	0.3506	0.3703	0.3768	Ave		0.351 9			6.7		20.4				
Benzo[a]anthracene	1.4080 1.1978	1.0354	1.0785	1.2347	1.1546	Ave		1.184 8			11.1		20.4				
Chrysene	1.7949 1.2325	1.3155	1.3074	1.3262	1.2248	Ave		1.366 9			15.7		20.4				
Bis(2-ethylhexyl) phthalate	0.4646 0.5309	0.4454	0.4965	0.5243	0.5372	Ave		0.499 8			7.6		20.4				
Di-n-octyl phthalate	0.7323 0.6345	0.6791	0.7505	0.7749	0.7791	Ave		0.725 1			7.9		20.4				
Benzo[b]fluoranthene	1.3738 1.1079	1.0507	1.0982	1.1927	1.0663	Ave		1.148 3			10.5		20.4				
Benzo[k]fluoranthene	1.7424 1.1118	1.2519	1.2698	1.2830	1.1932	Ave		1.308 7			16.9		20.4				
Benzo[e]pyrene	1.4452 1.0321	1.0881	1.0997	1.1575	1.0459	Ave		1.144 7			13.4		20.4				
Benzo[a]pyrene	1.3667 1.0509	1.0020	1.0602	1.1469	1.0550	Ave		1.113 6			11.9		20.4				
Perylene	1.5709 1.0271	1.1387	1.1475	1.1647	1.0507	Ave		1.183 3			16.7		20.4				
Indeno[1,2,3-cd]pyrene	1.1694 1.0835	0.9481	0.9955	1.0950	1.0066	Ave		1.049 7			7.7		20.4				
Dibenz(a,h)anthracene	1.2659 1.2253	1.0300	1.0696	1.2571	1.1852	Ave		1.172 2			8.5		20.4				

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-70640-1 Analy Batch No.: 217423

SDG No.: \_\_\_\_\_

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[g,h,i]perylene	1.6496 1.2309	1.2354	1.2248	1.3381	1.2304	Ave		1.318 2			12.7		20.4				
1-Methylnaphthalene-d10 (Surr)	0.7413 0.6345	0.6317	0.6056	0.6756	0.5801	Ave		0.644 8			8.8		20.4				
Fluoranthene-d10 (Surr)	1.7111 1.1331	1.1480	1.1179	1.2904	1.1150	Ave		1.252 6			18.7		20.4				
Benzo(a)pyrene-d12 (Surr)	++++ 0.8554	0.8625	0.8439	0.9300	0.8555	Ave		0.869 5			4.0		20.4				

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

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-70640-1 Analy Batch No.: 217423

SDG No.: \_\_\_\_\_

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-217423/7	MA0856.D
Level 2	IC 410-217423/6	MA0855.D
Level 3	IC 410-217423/5	MA0854.D
Level 4	ICIS 410-217423/2	MA0851.D
Level 5	IC 410-217423/4	MA0853.D
Level 6	IC 410-217423/3	MA0852.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Ave	2125 526567	9931	20321	113540	201900	0.0100 2.50	0.0500	0.100	0.500	1.00
N-Nitrosodimethylamine	DCBd 4	Ave	2086 569326	9593	21571	103228	220960	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-chloroethyl)ether	NPT	Ave	3381 833157	15388	37343	152726	385646	0.0100 2.50	0.0500	0.100	0.500	1.00
Naphthalene	NPT	Ave	12415 2384491	52104	108805	452146	1082061	0.0100 2.50	0.0500	0.100	0.500	1.00
Quinoline	NPT	Ave	3788 1437432	22269	53896	263846	616053	0.0100 2.50	0.0500	0.100	0.500	1.00
2-Methylnaphthalene	NPT	Ave	7520 1762888	34608	73704	338121	762962	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene	NPT	Ave	7695 1682338	34249	71246	318636	712631	0.0100 2.50	0.0500	0.100	0.500	1.00
Dimethyl phthalate	ANT	Ave	207904 8552796	419730	908216	2029151	4579993	0.250 10.0	0.500	1.00	2.50	5.00
Acenaphthylene	ANT	Ave	12338 2935834	53127	111684	530901	1173484	0.0100 2.50	0.0500	0.100	0.500	1.00
Acenaphthene	ANT	Ave	8995 1877856	38357	77951	355183	769562	0.0100 2.50	0.0500	0.100	0.500	1.00
Dibenzofuran	ANT	Ave	12739 2936441	58659	119163	567610	1206139	0.0100 2.50	0.0500	0.100	0.500	1.00
Diethyl phthalate	ANT	Ave	188261 7887337	375091	817817	1930500	4244196	0.250 10.0	0.500	1.00	2.50	5.00
Fluorene	ANT	Ave	10128	45665	95820	470069	976262	0.0100	0.0500	0.100	0.500	1.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-70640-1 Analy Batch No.: 217423

SDG No.: \_\_\_\_\_

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			2391627					2.50				
N-Nitrosodiphenylamine	PHN	Lin2	10760 1574485	31666	67041	320743	656110	0.0100 2.50	0.0500	0.100	0.500	1.00
Hexachlorobenzene	PHN	Ave	4114 896290	17594	36512	180781	367427	0.0100 2.50	0.0500	0.100	0.500	1.00
Phenanthrene	PHN	Ave	18538 3753897	73747	152691	755350	1532589	0.0100 2.50	0.0500	0.100	0.500	1.00
Anthracene	PHN	Ave	15795 3626607	68571	138441	733573	1487896	0.0100 2.50	0.0500	0.100	0.500	1.00
Di-n-butyl phthalate	PHN	Ave	294909 12513211	590239	1347265	3514233	7407070	0.250 10.0	0.500	1.00	2.50	5.00
Fluoranthene	PHN	Ave	21281 4825897	89070	190574	1031981	2004865	0.0100 2.50	0.0500	0.100	0.500	1.00
Pyrene	CRY	Ave	22836 5030384	92705	196933	1083812	2086640	0.0100 2.50	0.0500	0.100	0.500	1.00
Butyl benzyl phthalate	CRY	Ave	125839 6390635	255544	604710	1669774	3484417	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[a]anthracene	CRY	Ave	21064 5271386	84274	186034	1113692	2135252	0.0100 2.50	0.0500	0.100	0.500	1.00
Chrysene	CRY	Ave	26852 5423860	107075	225519	1196146	2265099	0.0100 2.50	0.0500	0.100	0.500	1.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	173776 9345362	362560	856442	2364551	4967171	0.250 10.0	0.500	1.00	2.50	5.00
Di-n-octyl phthalate	PRY	Ave	300061 14385247	633504	1489830	4136629	8695911	0.250 10.0	0.500	1.00	2.50	5.00
Benzo[b]fluoranthene	PRY	Ave	22518 6278886	98017	218005	1273323	2380399	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[k]fluoranthene	PRY	Ave	28560 6301319	116782	252069	1369691	2663567	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[e]pyrene	PRY	Ave	23688 5849526	101500	218312	1235722	2334698	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[a]pyrene	PRY	Ave	22402 5956064	93472	210473	1224450	2355135	0.0100 2.50	0.0500	0.100	0.500	1.00
Perylene	PRY	Ave	25748 5820950	106218	227809	1243483	2345497	0.0100 2.50	0.0500	0.100	0.500	1.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	19168	88438	197615	1169047	2246951	0.0100	0.0500	0.100	0.500	1.00

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

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-70640-1 Analy Batch No.: 217423

SDG No.: \_\_\_\_\_

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
			6140663					2.50				
Dibenz(a,h)anthracene	PRY	Ave	20749 6944335	96078	212325	1342136	2645849	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo[g,h,i]perylene	PRY	Ave	27039 6976077	115238	243146	1428524	2746569	0.0100 2.50	0.0500	0.100	0.500	1.00
1-Methylnaphthalene-d10 (Surr)	NPT	Ave	6771 1455382	30412	63145	279872	625912	0.0100 2.50	0.0500	0.100	0.500	1.00
Fluoranthene-d10 (Surr)	PHN	Ave	22517 4153822	82021	166819	891564	1721044	0.0100 2.50	0.0500	0.100	0.500	1.00
Benzo(a)pyrene-d12 (Surr)	PRY	Ave	+++++ 4847905	80459	167536	992822	1909684	+++++ 2.50	0.0500	0.100	0.500	1.00

Curve Type Legend

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

FORM VI  
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
READBACK PERCENT ERROR

Lab Name: Eurofins Lancaster Laboratories Env Job No.: 410-70640-1 Analy Batch No.: 217423

SDG No.: \_\_\_\_\_

Instrument ID: HP21585 GC Column: DB-5MS 30m ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/25/2022 05:48 Calibration End Date: 01/25/2022 08:29 Calibration ID: 34940

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 410-217423/7	MA0856.D
Level 2	IC 410-217423/6	MA0855.D
Level 3	IC 410-217423/5	MA0854.D
Level 4	ICIS 410-217423/2	MA0851.D
Level 5	IC 410-217423/4	MA0853.D
Level 6	IC 410-217423/3	MA0852.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
N-Nitrosodiphenylamine	2.5	-12.6	-1.9	9.1	0.7	2.3	50	30	30	30	30	30

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0851.D  
 Lims ID: ICIS L4  
 Client ID:  
 Sample Type: ICIS Calib Level: 4  
 Inject. Date: 25-Jan-2022 05:48:39 ALS Bottle#: 0 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ICIS L4  
 Misc. Info.: 410-0048994-002, 4  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist: chrom-8270\_SIM\_HP21585\*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:07:06 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: transuea

Date: 25-Jan-2022 13:07:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.058	3.058	0.000	96	113540	0.5000	0.5990	
2 N-Nitrosodimethylamine	74	3.518	3.518	0.000	94	103228	0.5000	0.5391	
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	91	152726	0.5000	0.5175	
* 4 1,4-Dichlorobenzene-d4	152	6.993	6.993	0.000	96	63900	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.910	8.910	0.000	91	207121	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	93	452146	0.5000	0.4947	
7 Quinoline	129	9.481	9.481	0.000	84	263846	0.5000	0.5918	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	95	338121	0.5000	0.5393	
\$ 9 1-Methylnaphthalene-d10	152	10.141	10.141	0.000	100	279872	0.5000	0.5239	
10 1-Methylnaphthalene	142	10.203	10.203	0.000	96	318636	0.5000	0.5244	
11 Dimethyl phthalate	163	11.340	11.340	0.000	95	2029151	2.50	2.58	
12 Acenaphthylene	152	11.486	11.486	0.000	99	530901	0.5000	0.5106	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	94	157490	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	355183	0.5000	0.4978	
15 Dibenzofuran	168	11.989	11.989	0.000	100	567610	0.5000	0.5204	
16 Diethyl phthalate	149	12.332	12.332	0.000	97	1930500	2.50	2.68	
17 Fluorene	166	12.426	12.426	0.000	95	470069	0.5000	0.5354	
18 N-Nitrosodiphenylamine	169	12.590	12.590	0.000	98	320743	0.5000	0.5455	
19 Hexachlorobenzene	284	13.082	13.082	0.000	90	180781	0.5000	0.5072	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	99	345456	0.2500	0.2500	
21 Phenanthrene	178	13.612	13.612	0.000	100	755350	0.5000	0.4989	
22 Anthracene	178	13.683	13.683	0.000	100	733573	0.5000	0.5219	
23 Di-n-butyl phthalate	149	14.405	14.405	0.000	100	3514233	2.50	2.80	
\$ 24 Fluoranthene-d10 (Surr)	212	15.245	15.245	0.000	99	891564	0.5000	0.5151	
25 Fluoranthene	202	15.277	15.277	0.000	99	1031981	0.5000	0.5432	
26 Pyrene	202	15.621	15.621	0.000	97	1083812	0.5000	0.4952	
27 Butyl benzyl phthalate	149	16.748	16.748	0.000	100	1669774	2.50	2.63	
28 Benzo[a]anthracene	228	17.637	17.637	0.000	100	1113692	0.5000	0.5211	
* 29 Chrysene-d12	240	17.653	17.653	0.000	89	450984	0.2500	0.2500	
30 Chrysene	228	17.699	17.699	0.000	100	1196146	0.5000	0.4851	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.799	17.799	0.000	97	2364551	2.50	2.62	
32 Di-n-octyl phthalate	149	18.972	18.972	0.000	100	4136629	2.50	2.67	
33 Benzo[b]fluoranthene	252	19.501	19.501	0.000	100	1273323	0.5000	0.5193	
34 Benzo[k]fluoranthene	252	19.547	19.547	0.000	100	1369691	0.5000	0.4902	
35 Benzo[e]pyrene	252	19.946	19.946	0.000	100	1235722	0.5000	0.5056	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.992	19.992	0.000	98	992822	0.5000	0.5348	
37 Benzo[a]pyrene	252	20.030	20.030	0.000	100	1224450	0.5000	0.5149	
* 38 Perylene-d12	264	20.122	20.122	0.000	98	533802	0.2500	0.2500	
39 Perylene	252	20.168	20.168	0.000	100	1243483	0.5000	0.4922	
40 Indeno[1,2,3-cd]pyrene	276	21.787	21.787	0.000	98	1169047	0.5000	0.5216	M
41 Dibenz(a,h)anthracene	278	21.829	21.829	0.000	96	1342136	0.5000	0.5362	
42 Benzo[g,h,i]perylene	276	22.225	22.225	0.000	94	1428524	0.5000	0.5075	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

MSS\_RVSIM\_4\_00019

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0851.D

Injection Date: 25-Jan-2022 05:48:39

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: ICIS L4

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

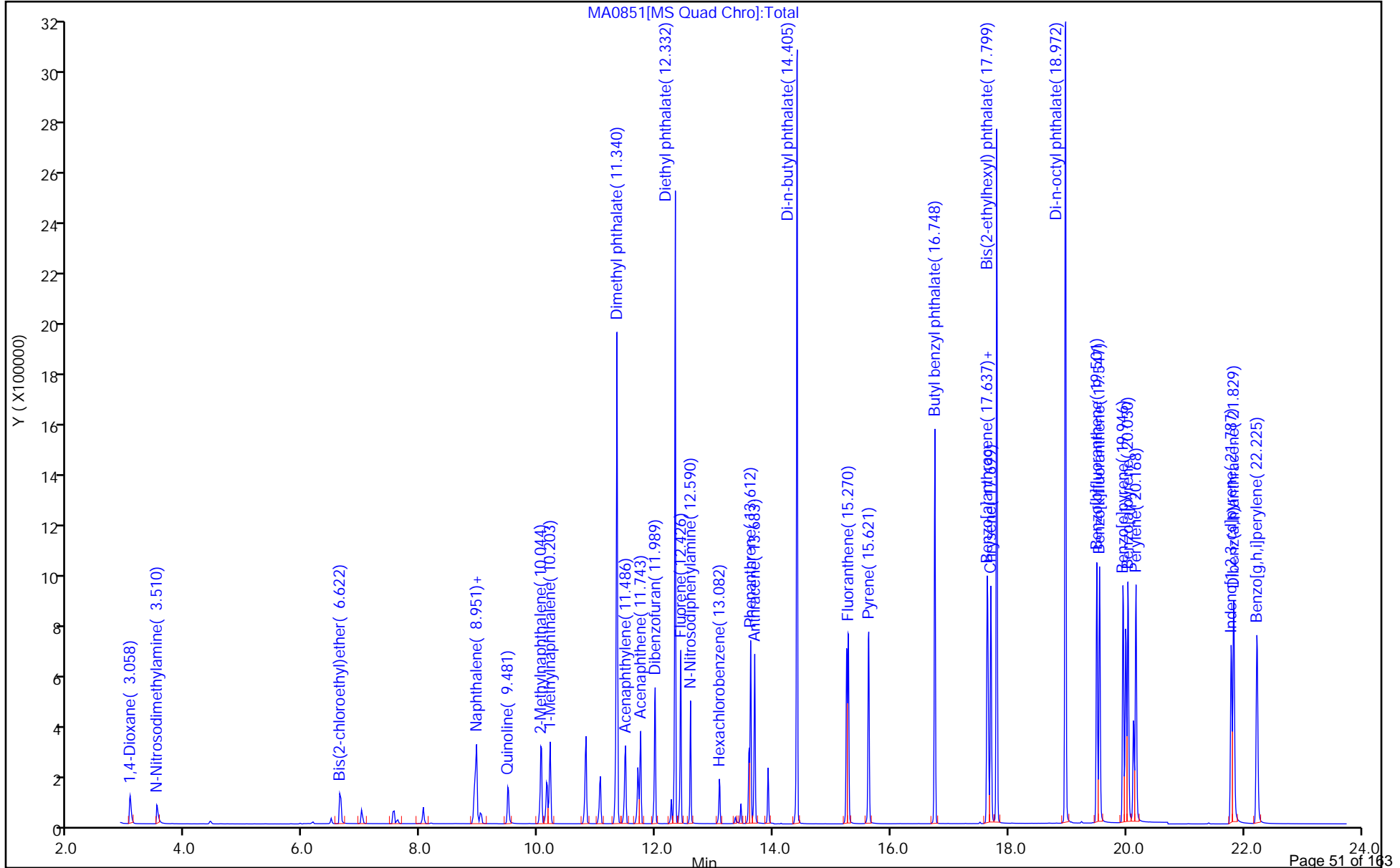
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

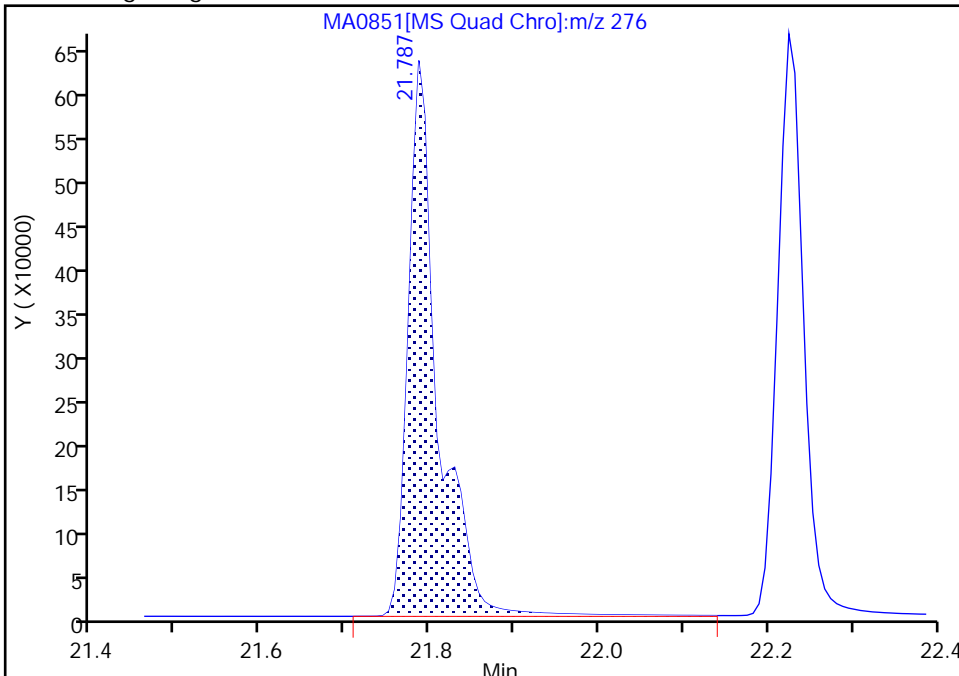
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Injection Date: 25-Jan-2022 05:48:39 Instrument ID: HP21585  
Lims ID: ICIS L4  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

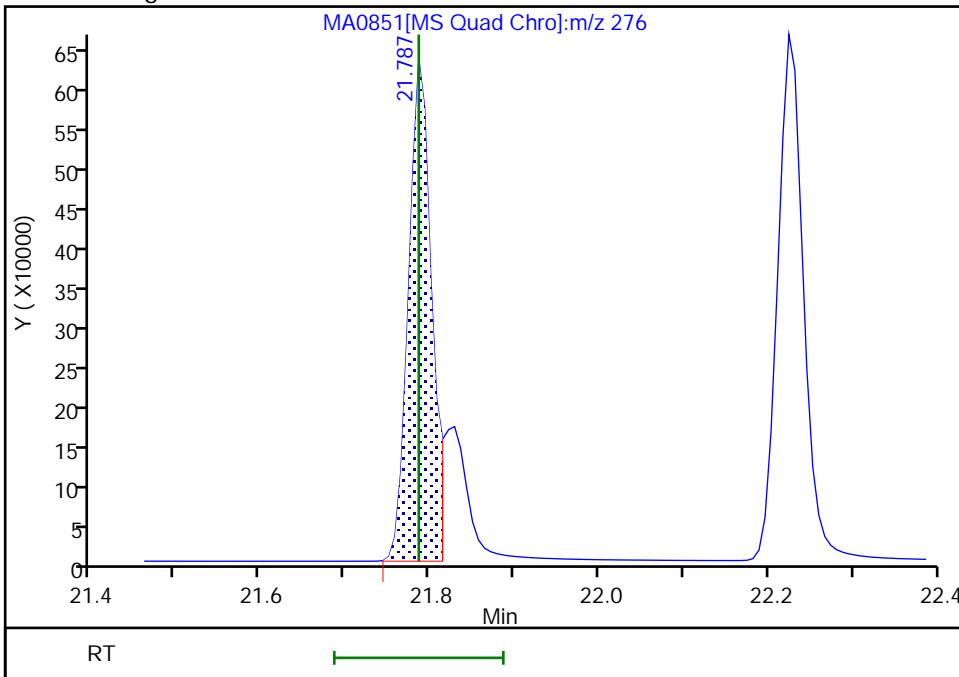
RT: 21.79  
Area: 1530985  
Amount: 0.500000  
Amount Units: ug/ml

Processing Integration Results



RT: 21.79  
Area: 1169047  
Amount: 0.521605  
Amount Units: ug/ml

Manual Integration Results



Reviewer: gamblerj, 25-Jan-2022 06:27:39  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 40 of 151

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0852.D  
 Lims ID: IC L6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 25-Jan-2022 06:30:09 ALS Bottle#: 0 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC L6  
 Misc. Info.: 410-0048994-003  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist: chrom-8270\_SIM\_HP21585\*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:07:09 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: transuea

Date: 25-Jan-2022 12:57:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.058	3.058	0.000	97	526567	2.50	2.61	
2 N-Nitrosodimethylamine	74	3.503	3.518	-0.015	92	569326	2.50	2.79	
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	94	833157	2.50	2.55	
* 4 1,4-Dichlorobenzene-d4	152	6.993	6.993	0.000	95	68094	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.910	8.910	0.000	91	229375	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	93	2384491	2.50	2.36	
7 Quinoline	129	9.481	9.481	0.000	84	1437432	2.50	2.91	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	95	1762888	2.50	2.54	
\$ 9 1-Methylnaphthalene-d10	152	10.154	10.141	0.013	100	1455382	2.50	2.46	
10 1-Methylnaphthalene	142	10.202	10.203	-0.001	96	1682338	2.50	2.50	
11 Dimethyl phthalate	163	11.339	11.340	-0.001	99	8552796	10.0	9.65	
12 Acenaphthylene	152	11.486	11.486	0.000	99	2935834	2.50	2.50	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	94	177754	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	1877856	2.50	2.33	
15 Dibenzofuran	168	11.989	11.989	0.000	99	2936441	2.50	2.39	
16 Diethyl phthalate	149	12.332	12.332	0.000	98	7887337	10.0	9.71	
17 Fluorene	166	12.426	12.426	0.000	95	2391627	2.50	2.41	
18 N-Nitrosodiphenylamine	169	12.590	12.590	0.000	99	1574485	2.50	2.56	
19 Hexachlorobenzene	284	13.089	13.082	0.007	91	896290	2.50	2.37	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	95	366599	0.2500	0.2500	
21 Phenanthrene	178	13.612	13.612	0.000	100	3753897	2.50	2.34	
22 Anthracene	178	13.683	13.683	0.000	100	3626607	2.50	2.43	
23 Di-n-butyl phthalate	149	14.405	14.405	0.000	100	12513211	10.0	9.38	
\$ 24 Fluoranthene-d10 (Surr)	212	15.245	15.245	0.000	97	4153822	2.50	2.26	
25 Fluoranthene	202	15.277	15.277	0.000	100	4825897	2.50	2.39	
26 Pyrene	202	15.621	15.621	0.000	100	5030384	2.50	2.36	
27 Butyl benzyl phthalate	149	16.755	16.748	0.007	100	6390635	10.0	10.3	
28 Benzo[a]anthracene	228	17.637	17.637	0.000	100	5271386	2.50	2.53	
* 29 Chrysene-d12	240	17.653	17.653	0.000	64	440077	0.2500	0.2500	
30 Chrysene	228	17.699	17.699	0.000	100	5423860	2.50	2.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.806	17.799	0.008	97	9345362	10.0	10.6	
32 Di-n-octyl phthalate	149	18.980	18.972	0.008	100	14385247	10.0	8.75	
33 Benzo[b]fluoranthene	252	19.509	19.501	0.008	100	6278886	2.50	2.41	
34 Benzo[k]fluoranthene	252	19.555	19.547	0.008	100	6301319	2.50	2.12	
35 Benzo[e]pyrene	252	19.954	19.946	0.008	100	5849526	2.50	2.25	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	20.000	19.992	0.008	98	4847905	2.50	2.46	
37 Benzo[a]pyrene	252	20.038	20.030	0.008	100	5956064	2.50	2.36	
* 38 Perylene-d12	264	20.130	20.122	0.008	99	566756	0.2500	0.2500	
39 Perylene	252	20.176	20.168	0.008	100	5820950	2.50	2.17	
40 Indeno[1,2,3-cd]pyrene	276	21.794	21.787	0.007	98	6140663	2.50	2.58	M
41 Dibenz(a,h)anthracene	278	21.836	21.829	0.007	95	6944335	2.50	2.61	
42 Benzo[g,h,i]perylene	276	22.232	22.225	0.007	94	6976077	2.50	2.33	

### QC Flag Legend

Processing Flags

Review Flags

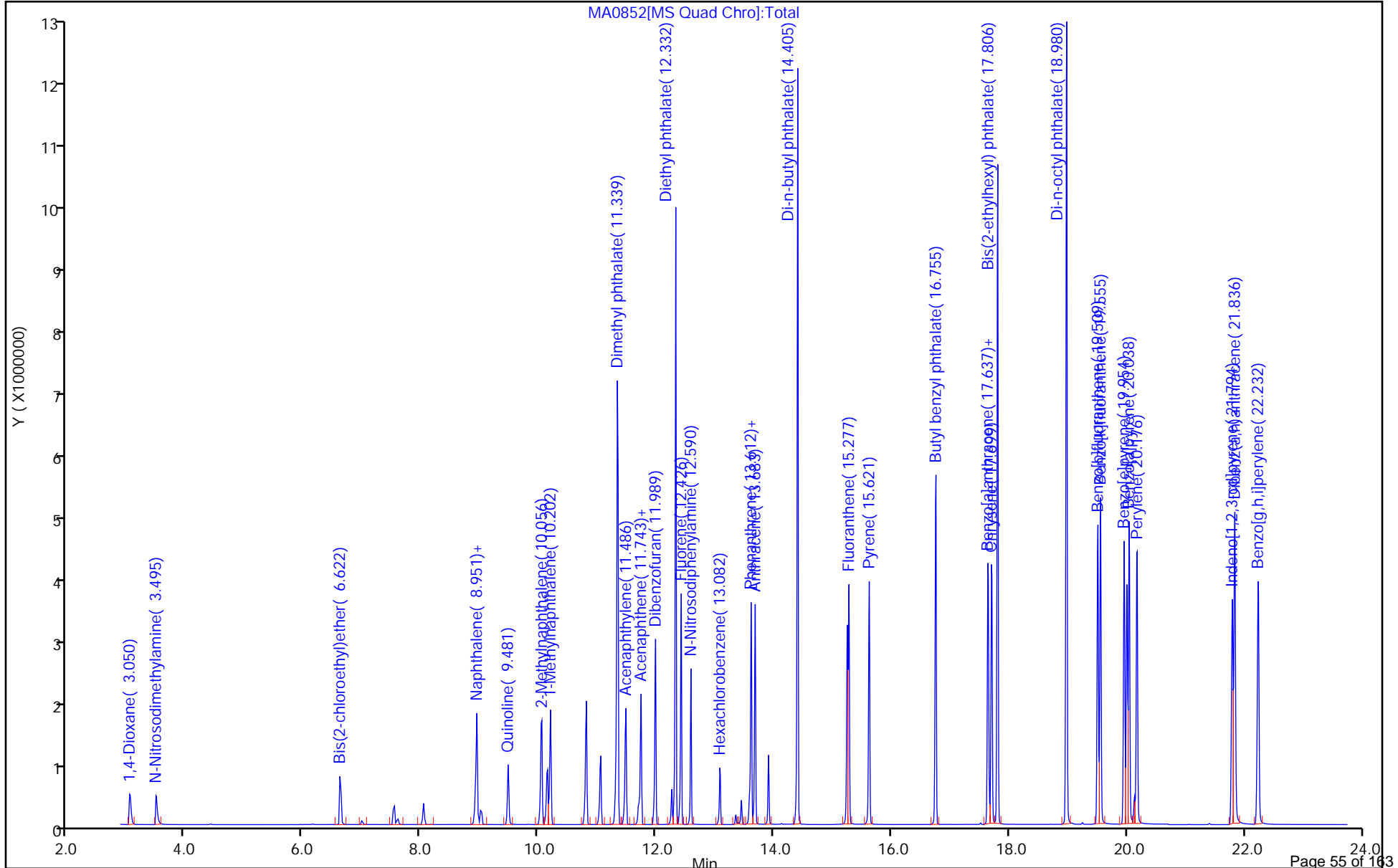
M - Manually Integrated

### Reagents:

MSS\_RVSIM\_6\_00012

Amount Added: 1.00

Units: mL



Eurofins Lancaster Laboratories Env, LLC

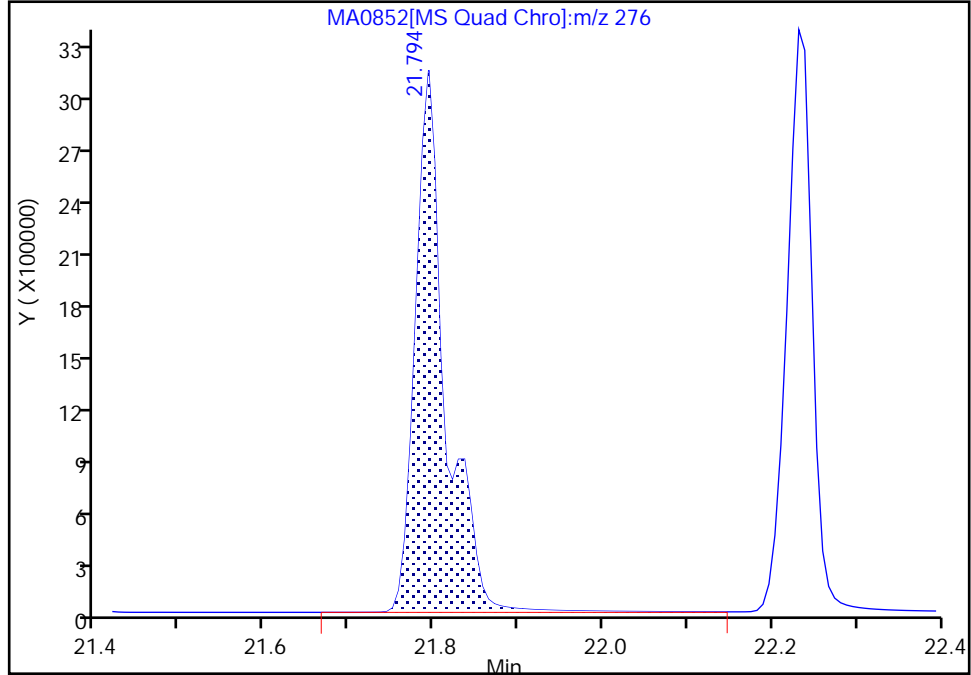
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Injection Date: 25-Jan-2022 06:30:09 Instrument ID: HP21585  
Lims ID: IC L6  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector: MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

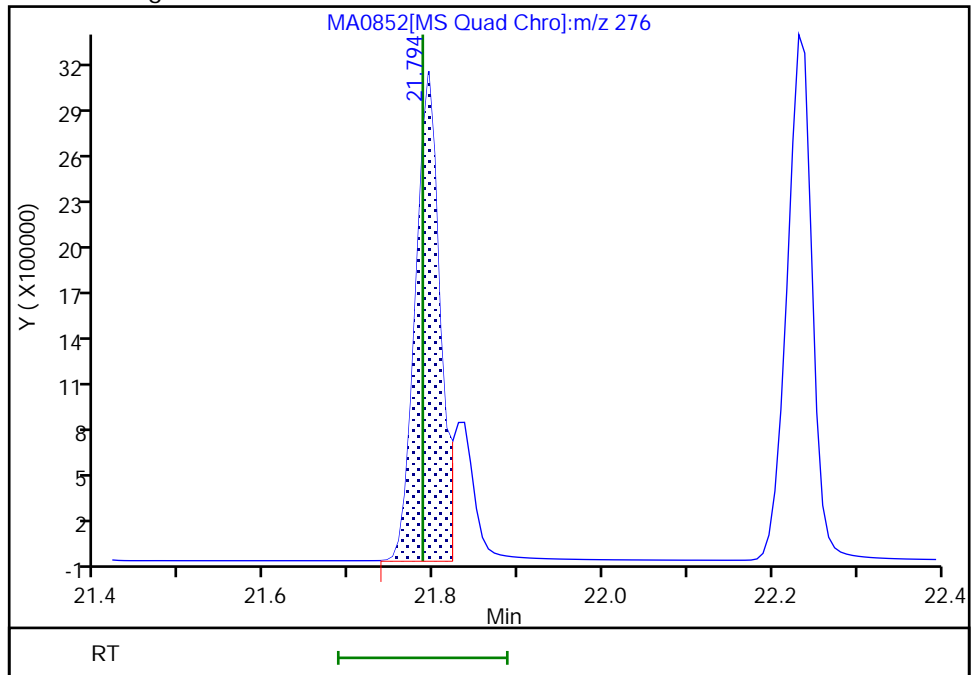
RT: 21.79  
Area: 7692177  
Amount: 2.724143  
Amount Units: ug/ml

Processing Integration Results



RT: 21.79  
Area: 6140663  
Amount: 2.580533  
Amount Units: ug/ml

Manual Integration Results



Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0853.D  
 Lims ID: IC L5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 25-Jan-2022 06:59:47 ALS Bottle#: 0 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC L5  
 Misc. Info.: 410-0048994-004  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist: chrom-8270\_SIM\_HP21585\*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:07:12 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: transuea

Date: 25-Jan-2022 12:58:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.058	3.058	0.000	97	201900	1.00	0.8662	
2 N-Nitrosodimethylamine	74	3.518	3.518	0.000	92	220960	1.00	0.9385	
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	94	385646	1.00	1.00	
* 4 1,4-Dichlorobenzene-d4	152	6.994	6.993	0.001	97	78577	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.910	8.910	0.000	92	269741	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	93	1082061	1.00	0.9091	
7 Quinoline	129	9.481	9.481	0.000	84	616053	1.00	1.06	
8 2-Methylnaphthalene	142	10.044	10.056	-0.012	97	762962	1.00	0.9343	
\$ 9 1-Methylnaphthalene-d10	152	10.142	10.141	0.001	100	625912	1.00	0.8997	
10 1-Methylnaphthalene	142	10.203	10.203	0.000	96	712631	1.00	0.9006	
11 Dimethyl phthalate	163	11.340	11.340	0.000	95	4579993	5.00	5.01	
12 Acenaphthylene	152	11.486	11.486	0.000	99	1173484	1.00	0.9682	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	91	183568	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	769562	1.00	0.9253	
15 Dibenzofuran	168	11.989	11.989	0.000	100	1206139	1.00	0.9487	
16 Diethyl phthalate	149	12.332	12.332	0.000	99	4244196	5.00	5.06	
17 Fluorene	166	12.426	12.426	0.000	95	976262	1.00	0.9541	
18 N-Nitrosodiphenylamine	169	12.590	12.590	0.000	99	656110	1.00	1.01	
19 Hexachlorobenzene	284	13.082	13.082	0.000	90	367427	1.00	0.9228	
* 20 Phenanthrene-d10	188	13.581	13.589	-0.008	100	385885	0.2500	0.2500	
21 Phenanthrene	178	13.613	13.612	0.001	100	1532589	1.00	0.9062	
22 Anthracene	178	13.683	13.683	0.000	100	1487896	1.00	0.9477	
23 Di-n-butyl phthalate	149	14.404	14.405	-0.001	100	7407070	5.00	5.28	
\$ 24 Fluoranthene-d10 (Surr)	212	15.244	15.245	-0.001	97	1721044	1.00	0.8902	
25 Fluoranthene	202	15.275	15.277	-0.002	100	2004865	1.00	0.9447	
26 Pyrene	202	15.620	15.621	-0.001	100	2086640	1.00	0.9299	
27 Butyl benzyl phthalate	149	16.745	16.748	-0.003	100	3484417	5.00	5.35	
28 Benzo[a]anthracene	228	17.635	17.637	-0.002	100	2135252	1.00	0.9745	
* 29 Chrysene-d12	240	17.650	17.653	-0.003	81	462337	0.2500	0.2500	
30 Chrysene	228	17.696	17.699	-0.003	100	2265099	1.00	0.8961	



Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.796	17.799	-0.002	97	4967171	5.00	5.37	
32 Di-n-octyl phthalate	149	18.969	18.972	-0.003	100	8695911	5.00	5.37	
33 Benzo[b]fluoranthene	252	19.498	19.501	-0.003	100	2380399	1.00	0.9286	
34 Benzo[k]fluoranthene	252	19.544	19.547	-0.003	100	2663567	1.00	0.9117	
35 Benzo[e]pyrene	252	19.951	19.946	0.005	100	2334698	1.00	0.9136	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.997	19.992	0.005	98	1909684	1.00	0.9839	
37 Benzo[a]pyrene	252	20.035	20.030	0.005	100	2355135	1.00	0.9474	
* 38 Perylene-d12	264	20.127	20.122	0.005	98	558082	0.2500	0.2500	
39 Perylene	252	20.166	20.168	-0.002	100	2345497	1.00	0.8880	
40 Indeno[1,2,3-cd]pyrene	276	21.784	21.787	-0.003	98	2246951	1.00	0.9589	M
41 Dibenz(a,h)anthracene	278	21.826	21.829	-0.003	96	2645849	1.00	1.01	
42 Benzo[g,h,i]perylene	276	22.229	22.225	0.004	94	2746569	1.00	0.9334	

### QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

### Reagents:

MSS\_RVSIM\_5\_00014

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0853.D

Injection Date: 25-Jan-2022 06:59:47

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: IC L5

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

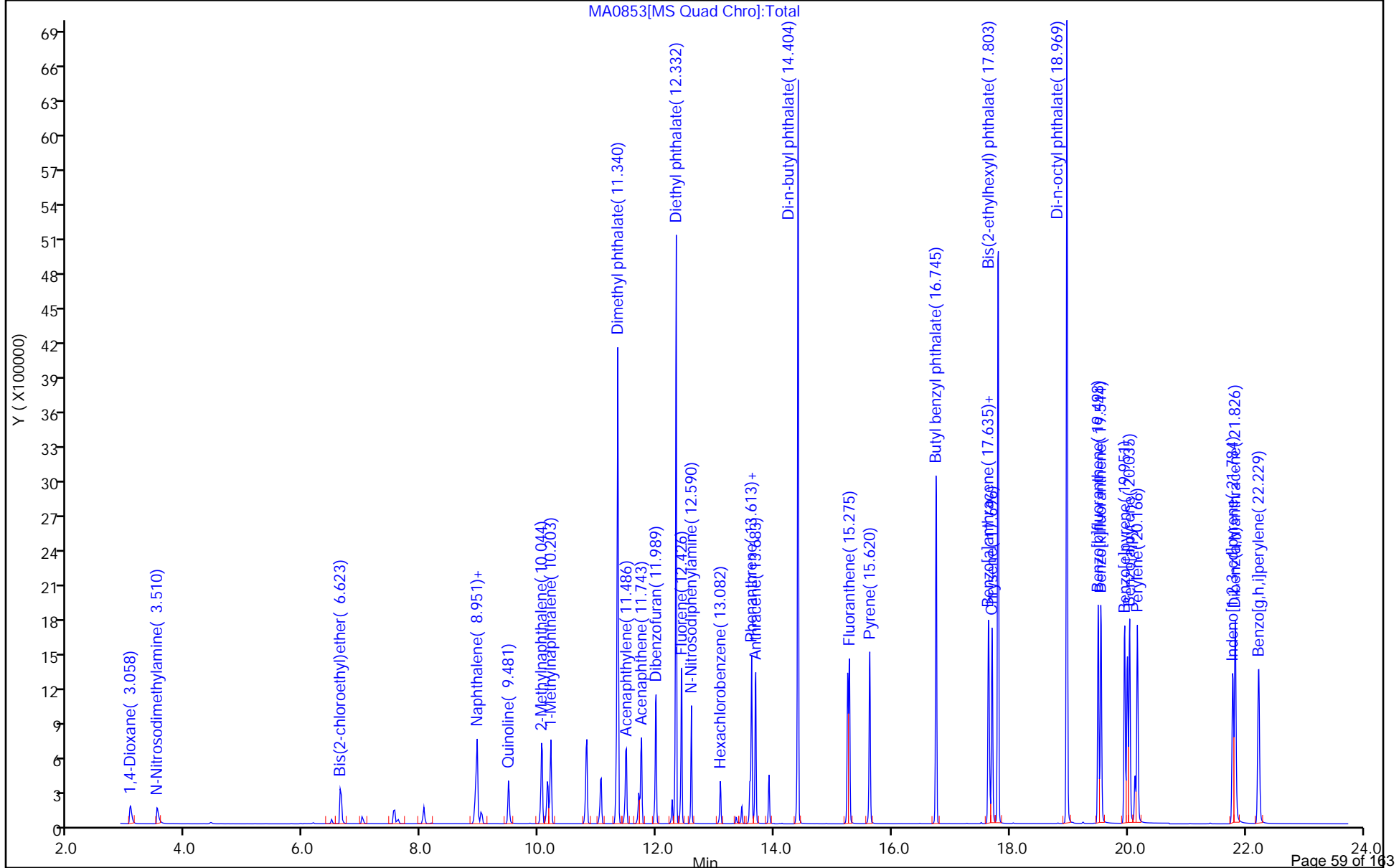
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

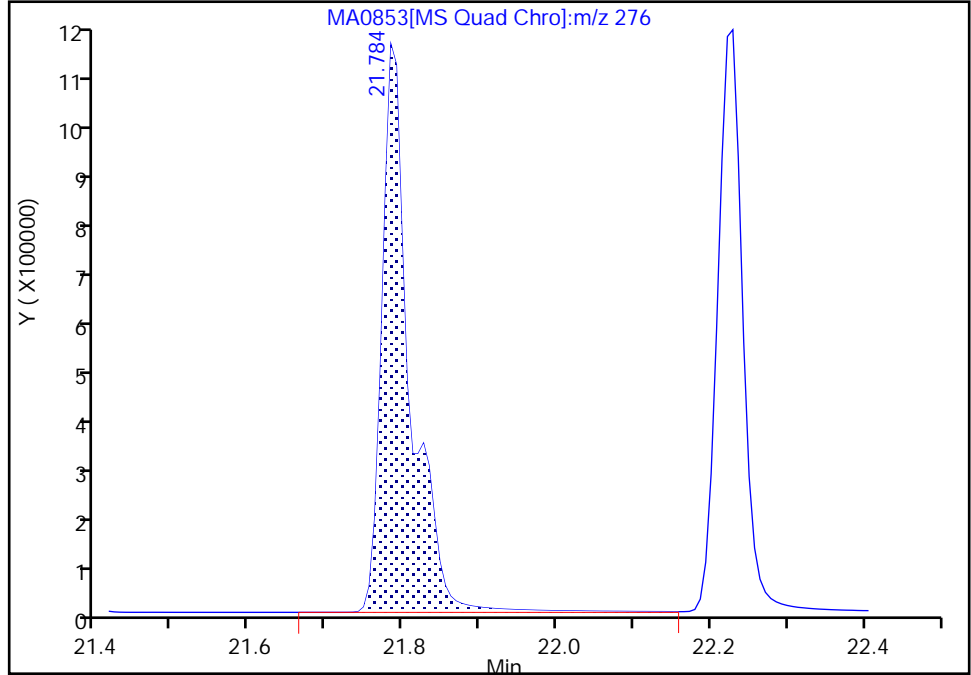
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Injection Date: 25-Jan-2022 06:59:47 Instrument ID: HP21585  
Lims ID: IC L5  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 4  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

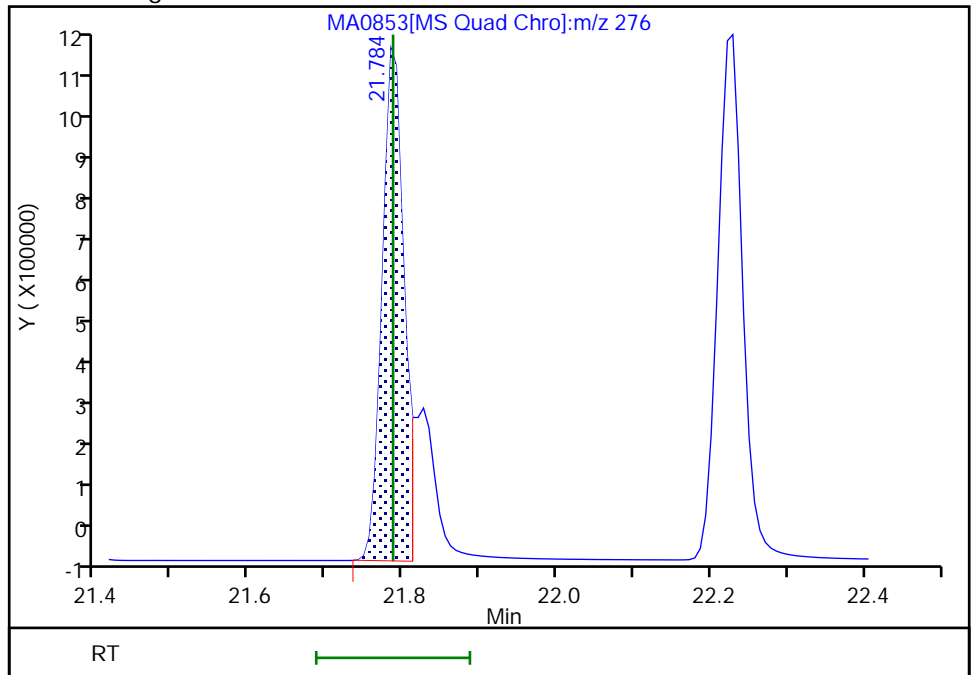
RT: 21.78  
Area: 2978529  
Amount: 1.081486  
Amount Units: ug/ml

Processing Integration Results



RT: 21.78  
Area: 2246951  
Amount: 0.958928  
Amount Units: ug/ml

Manual Integration Results



Reviewer: transuea, 25-Jan-2022 12:58:24  
Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0854.D  
 Lims ID: IC L3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 25-Jan-2022 07:29:33 ALS Bottle#: 0 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC L3  
 Misc. Info.: 410-0048994-005  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist: chrom-8270\_SIM\_HP21585\*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:07:15 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: transuea

Date: 25-Jan-2022 12:59:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.080	3.058	0.022	96	20321	0.1000	0.0892	
2 N-Nitrosodimethylamine	74	3.555	3.518	0.037	92	21571	0.1000	0.0937	
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	95	37343	0.1000	0.1005	
* 4 1,4-Dichlorobenzene-d4	152	6.993	6.993	0.000	99	76804	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.910	8.910	0.000	92	260668	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	93	108805	0.1000	0.0946	
7 Quinoline	129	9.493	9.481	0.012	84	53896	0.1000	0.0961	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	96	73704	0.1000	0.0934	
\$ 9 1-Methylnaphthalene-d10	152	10.141	10.141	0.000	100	63145	0.1000	0.0939	
10 1-Methylnaphthalene	142	10.202	10.203	-0.001	97	71246	0.1000	0.0932	
11 Dimethyl phthalate	163	11.339	11.340	-0.001	84	908216	1.00	1.00	
12 Acenaphthylene	152	11.486	11.486	0.000	99	111684	0.1000	0.0925	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	96	182901	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	77951	0.1000	0.0941	
15 Dibenzofuran	168	11.989	11.989	0.000	99	119163	0.1000	0.0941	
16 Diethyl phthalate	149	12.324	12.332	-0.008	99	817817	1.00	0.9783	
17 Fluorene	166	12.426	12.426	0.000	95	95820	0.1000	0.0940	
18 N-Nitrosodiphenylamine	169	12.590	12.590	0.000	100	67041	0.1000	0.0981	
19 Hexachlorobenzene	284	13.081	13.082	-0.001	90	36512	0.1000	0.0949	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	96	373071	0.2500	0.2500	
21 Phenanthrene	178	13.612	13.612	0.000	100	152691	0.1000	0.0934	
22 Anthracene	178	13.682	13.683	-0.001	100	138441	0.1000	0.0912	
23 Di-n-butyl phthalate	149	14.399	14.405	-0.006	100	1347265	1.00	0.99	
\$ 24 Fluoranthene-d10 (Surr)	212	15.245	15.245	0.000	97	166819	0.1000	0.0892	
25 Fluoranthene	202	15.277	15.277	0.000	99	190574	0.1000	0.0929	
26 Pyrene	202	15.621	15.621	0.000	97	196933	0.1000	0.0941	
27 Butyl benzyl phthalate	149	16.740	16.748	-0.008	100	604710	1.00	1.00	
28 Benzo[a]anthracene	228	17.637	17.637	0.000	100	186034	0.1000	0.0910	
* 29 Chrysene-d12	240	17.653	17.653	0.000	62	431252	0.2500	0.2500	
30 Chrysene	228	17.699	17.699	0.000	100	225519	0.1000	0.0956	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.798	17.799	0.000	97	856442	1.00	0.99	
32 Di-n-octyl phthalate	149	18.964	18.972	-0.008	100	1489830	1.00	1.04	
33 Benzo[b]fluoranthene	252	19.501	19.501	0.000	100	218005	0.1000	0.0956	
34 Benzo[k]fluoranthene	252	19.547	19.547	0.000	100	252069	0.1000	0.0970	
35 Benzo[e]pyrene	252	19.946	19.946	0.000	100	218312	0.1000	0.0961	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.992	19.992	0.000	98	167536	0.1000	0.0971	
37 Benzo[a]pyrene	252	20.030	20.030	0.000	100	210473	0.1000	0.0952	
* 38 Perylene-d12	264	20.122	20.122	0.000	98	496295	0.2500	0.2500	
39 Perylene	252	20.168	20.168	0.000	100	227809	0.1000	0.0970	
40 Indeno[1,2,3-cd]pyrene	276	21.786	21.787	-0.001	98	197615	0.1000	0.0948	M
41 Dibenz(a,h)anthracene	278	21.829	21.829	0.000	95	212325	0.1000	0.0912	
42 Benzo[g,h,i]perylene	276	22.224	22.225	-0.001	94	243146	0.1000	0.0929	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

MSS\_RVSIM\_3\_00013

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0854.D

Injection Date: 25-Jan-2022 07:29:33

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: IC L3

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

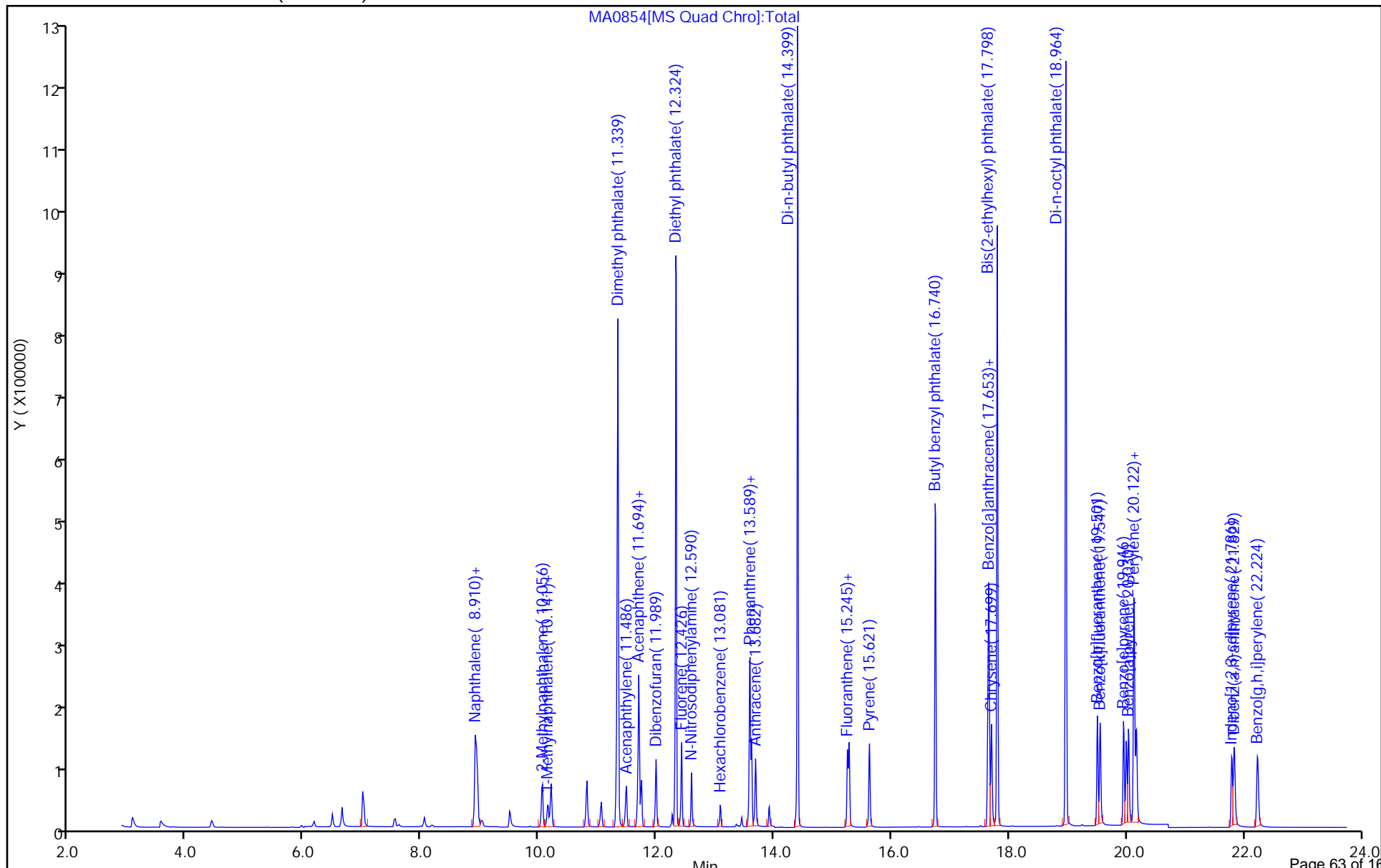
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

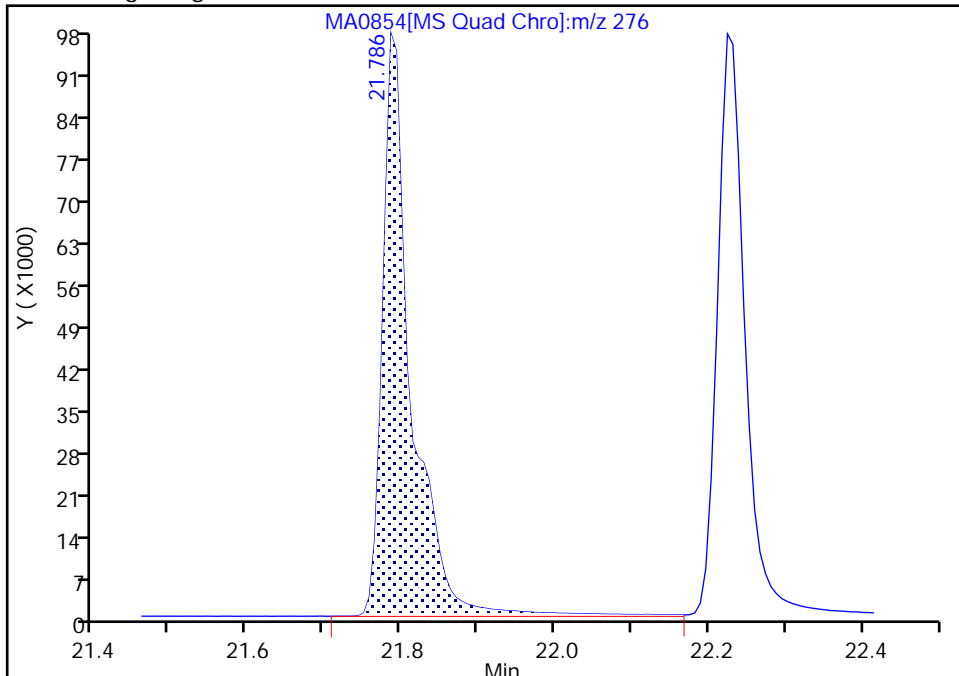
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Injection Date: 25-Jan-2022 07:29:33 Instrument ID: HP21585  
Lims ID: IC L3  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 5  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector: MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

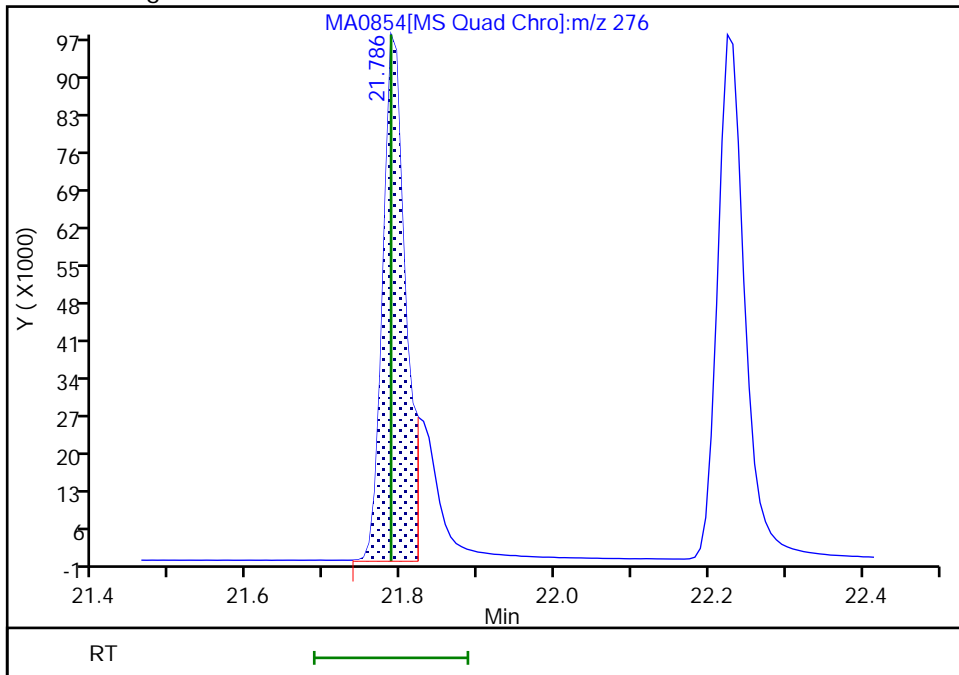
RT: 21.79  
Area: 252727  
Amount: 0.106281  
Amount Units: ug/ml

Processing Integration Results



RT: 21.79  
Area: 197615  
Amount: 0.094835  
Amount Units: ug/ml

Manual Integration Results



Reviewer: transuea, 25-Jan-2022 12:59:12  
Audit Action: Manually Integrated

Audit Reason: Split Peak  
Page 52 of 151

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0855.D  
 Lims ID: IC L2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 25-Jan-2022 07:59:16 ALS Bottle#: 0 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC L2  
 Misc. Info.: 410-0048994-006  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist: chrom-8270\_SIM\_HP21585\*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:07:18 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: transuea

Date: 25-Jan-2022 13:01:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.080	3.058	0.022	97	9931	0.0500	0.0475	M
2 N-Nitrosodimethylamine	74	3.570	3.518	0.052	88	9593	0.0500	0.0454	M
3 Bis(2-chloroethyl)ether	93	6.643	6.643	0.000	93	15388	0.0500	0.0449	
* 4 1,4-Dichlorobenzene-d4	152	6.993	6.993	0.000	99	70483	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.931	8.910	0.021	95	240727	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	0.000	94	52104	0.0500	0.0491	
7 Quinoline	129	9.506	9.481	0.025	84	22269	0.0500	0.0430	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	96	34608	0.0500	0.0475	
\$ 9 1-Methylnaphthalene-d10	152	10.153	10.141	0.012	100	30412	0.0500	0.0490	
10 1-Methylnaphthalene	142	10.202	10.203	-0.001	96	34249	0.0500	0.0485	
11 Dimethyl phthalate	163	11.339	11.340	-0.001	84	419730	0.5000	0.4848	
12 Acenaphthylene	152	11.486	11.486	0.000	99	53127	0.0500	0.0463	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	91	173665	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	38357	0.0500	0.0487	
15 Dibenzofuran	168	11.989	11.989	0.000	99	58659	0.0500	0.0488	
16 Diethyl phthalate	149	12.324	12.332	-0.008	99	375091	0.5000	0.4726	
17 Fluorene	166	12.426	12.426	0.000	95	45665	0.0500	0.0472	
18 N-Nitrosodiphenylamine	169	12.598	12.590	0.008	98	31666	0.0500	0.0437	
19 Hexachlorobenzene	284	13.089	13.082	0.007	91	17594	0.0500	0.0477	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	95	357225	0.2500	0.2500	
21 Phenanthrene	178	13.612	13.612	0.000	100	73747	0.0500	0.0471	
22 Anthracene	178	13.682	13.683	-0.001	100	68571	0.0500	0.0472	
23 Di-n-butyl phthalate	149	14.399	14.405	-0.006	100	590239	0.5000	0.4543	
\$ 24 Fluoranthene-d10 (Surr)	212	15.251	15.245	0.006	97	82021	0.0500	0.0458	
25 Fluoranthene	202	15.277	15.277	0.000	99	89070	0.0500	0.0453	
26 Pyrene	202	15.621	15.621	0.000	97	92705	0.0500	0.0469	
27 Butyl benzyl phthalate	149	16.740	16.748	-0.008	100	255544	0.5000	0.4462	
28 Benzo[a]anthracene	228	17.637	17.637	0.000	100	84274	0.0500	0.0437	
* 29 Chrysene-d12	240	17.653	17.653	0.000	58	406973	0.2500	0.2500	
30 Chrysene	228	17.699	17.699	0.000	100	107075	0.0500	0.0481	



Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.798	17.799	0.000	97	362560	0.5000	0.4456	
32 Di-n-octyl phthalate	149	18.964	18.972	-0.008	100	633504	0.5000	0.4683	
33 Benzo[b]fluoranthene	252	19.501	19.501	0.000	100	98017	0.0500	0.0458	
34 Benzo[k]fluoranthene	252	19.547	19.547	0.000	100	116782	0.0500	0.0478	
35 Benzo[e]pyrene	252	19.946	19.946	0.000	100	101500	0.0500	0.0475	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.992	19.992	0.000	98	80459	0.0500	0.0496	
37 Benzo[a]pyrene	252	20.030	20.030	0.000	100	93472	0.0500	0.0450	
* 38 Perylene-d12	264	20.122	20.122	0.000	98	466417	0.2500	0.2500	
39 Perylene	252	20.168	20.168	0.000	100	106218	0.0500	0.0481	M
40 Indeno[1,2,3-cd]pyrene	276	21.794	21.787	0.007	98	88438	0.0500	0.0452	M
41 Dibenz(a,h)anthracene	278	21.836	21.829	0.007	96	96078	0.0500	0.0439	
42 Benzo[g,h,i]perylene	276	22.231	22.225	0.006	94	115238	0.0500	0.0469	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

MSS\_RVSIM\_2\_00015

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0855.D

Injection Date: 25-Jan-2022 07:59:16

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: IC L2

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

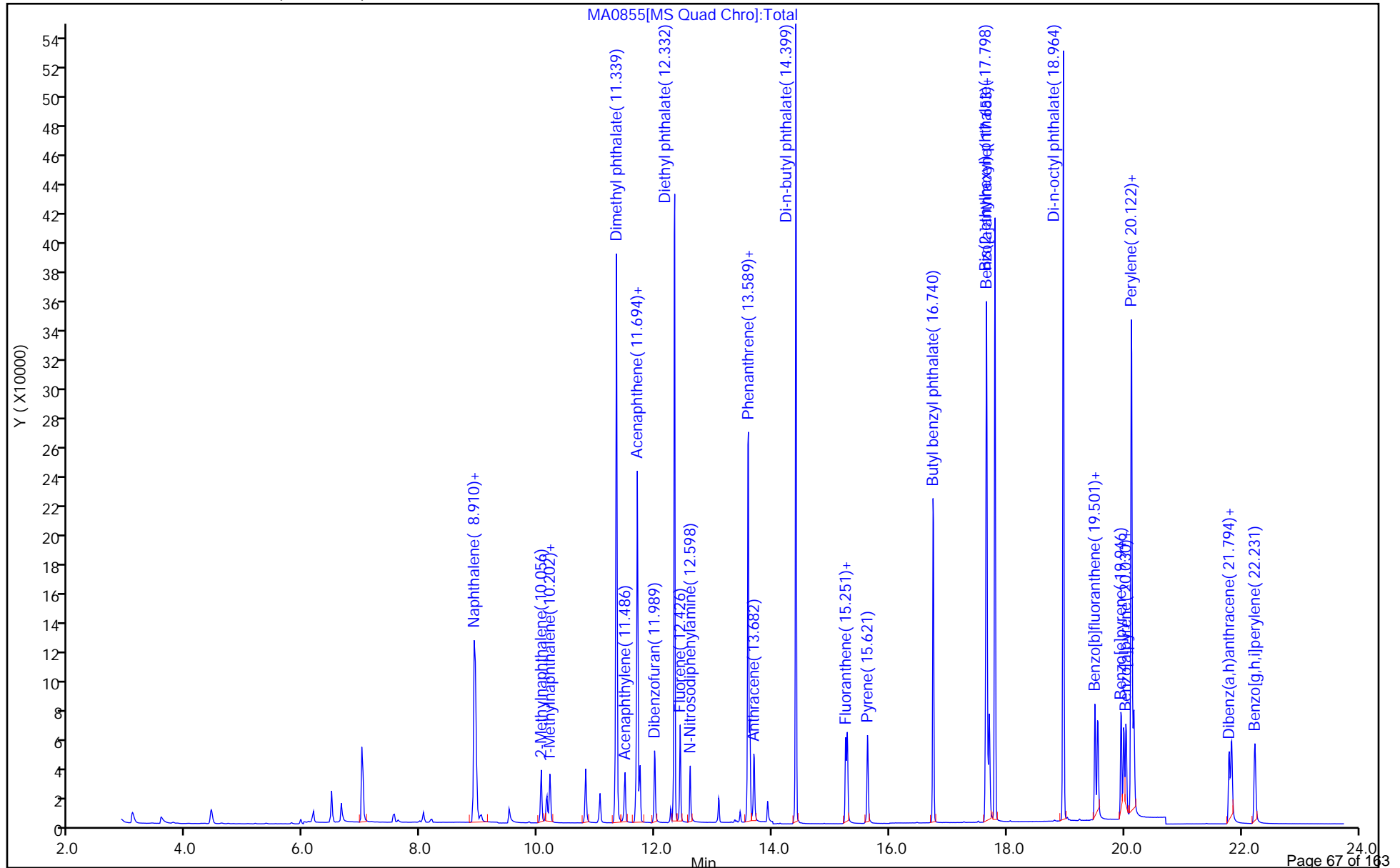
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

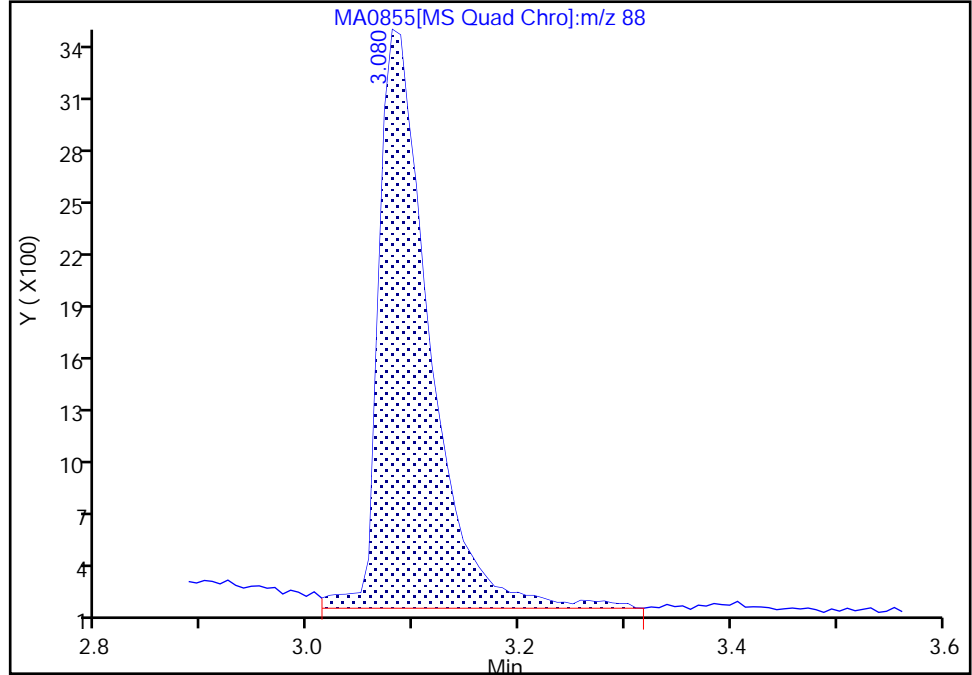
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Injection Date: 25-Jan-2022 07:59:16 Instrument ID: HP21585  
Lims ID: IC L2  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

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

Signal: 1

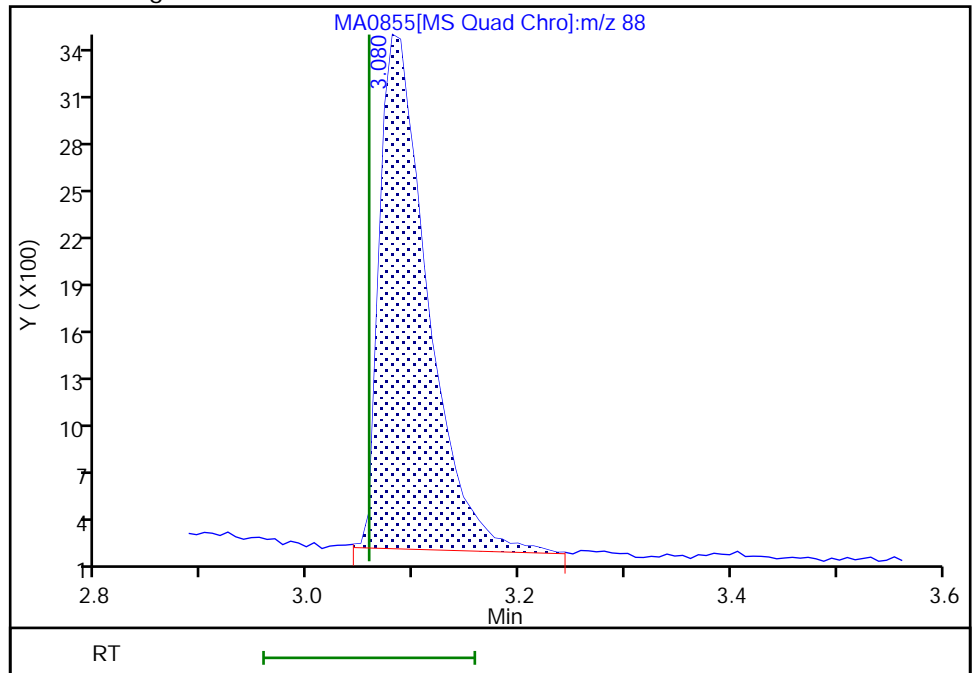
RT: 3.08  
Area: 10687  
Amount: 0.047709  
Amount Units: ug/ml

Processing Integration Results



RT: 3.08  
Area: 9931  
Amount: 0.047500  
Amount Units: ug/ml

Manual Integration Results



Reviewer: transuea, 25-Jan-2022 12:59:34  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 56 of 151

Eurofins Lancaster Laboratories Env, LLC

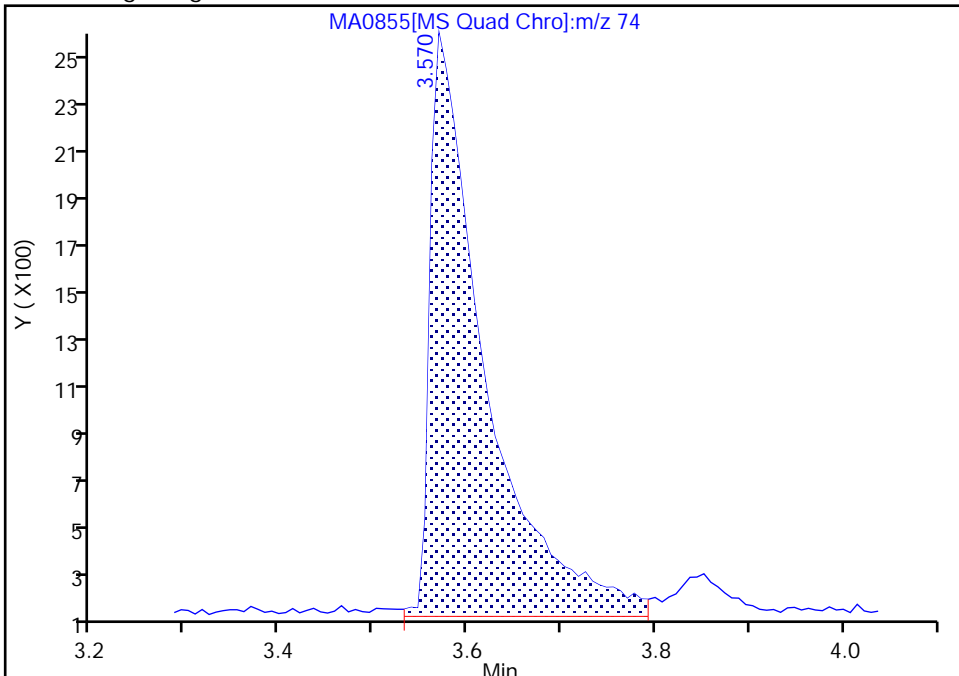
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Injection Date: 25-Jan-2022 07:59:16 Instrument ID: HP21585  
Lims ID: IC L2  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

**2 N-Nitrosodimethylamine, CAS: 62-75-9**

Signal: 1

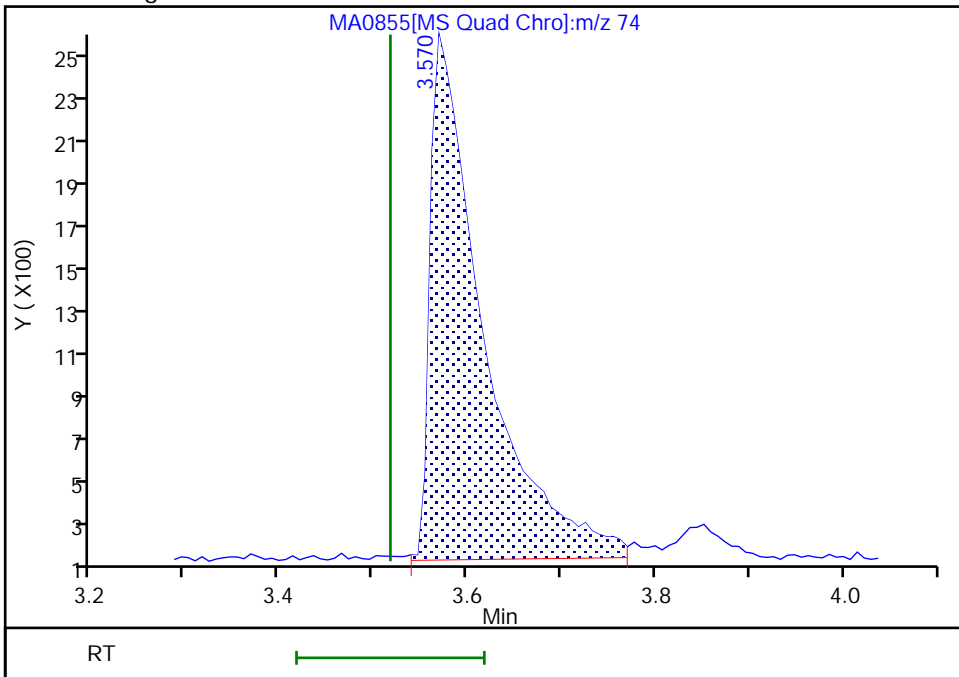
RT: 3.57  
Area: 9972  
Amount: 0.046607  
Amount Units: ug/ml

Processing Integration Results



RT: 3.57  
Area: 9593  
Amount: 0.045423  
Amount Units: ug/ml

Manual Integration Results



Eurofins Lancaster Laboratories Env, LLC

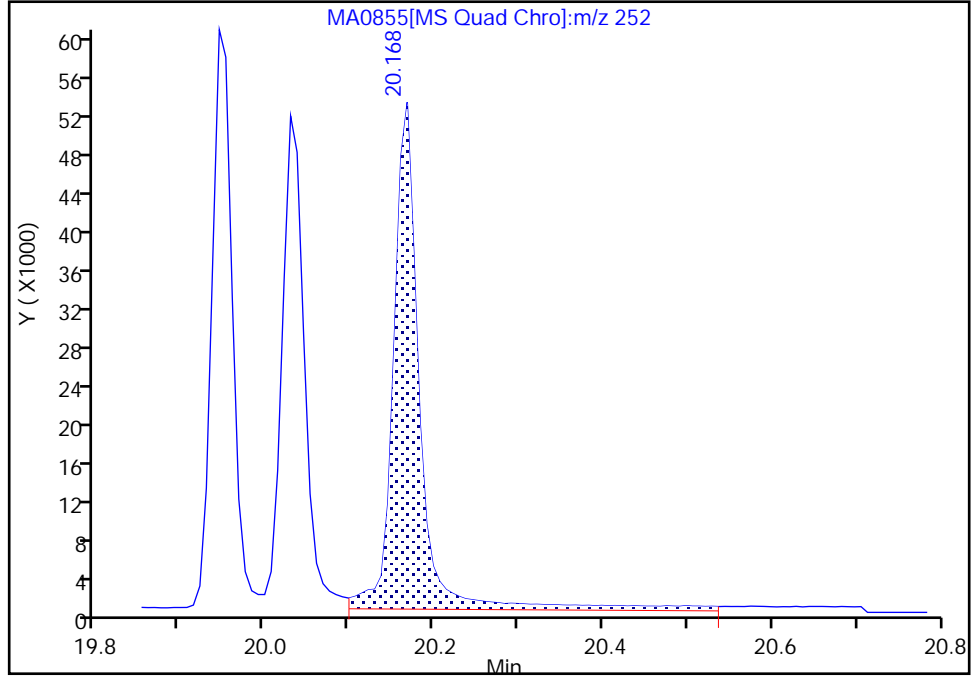
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Lims ID: IC L2  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

39 Perylene, CAS: 198-55-0

Signal: 1

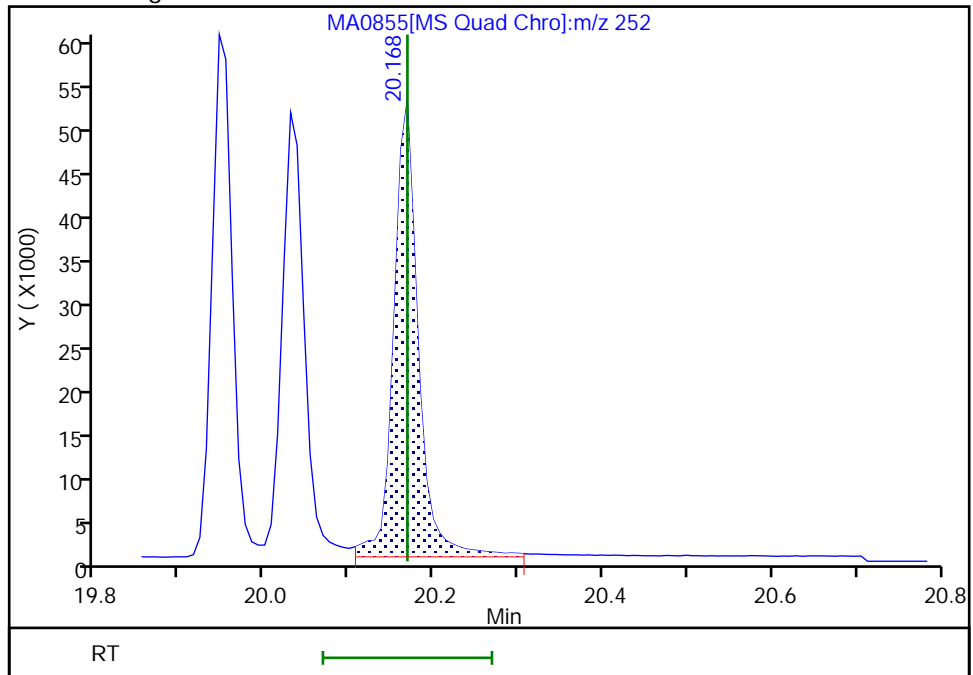
RT: 20.17  
Area: 115689  
Amount: 0.051667  
Amount Units: ug/ml

Processing Integration Results



RT: 20.17  
Area: 106218  
Amount: 0.048115  
Amount Units: ug/ml

Manual Integration Results



Reviewer: transuea, 25-Jan-2022 13:00:26  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins Lancaster Laboratories Env, LLC

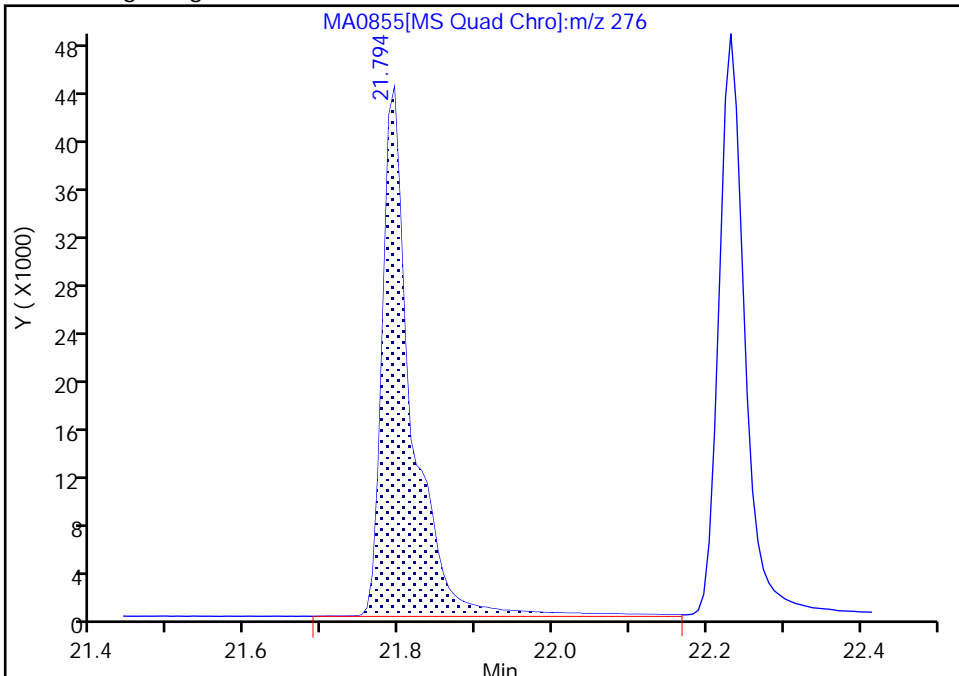
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Injection Date: 25-Jan-2022 07:59:16 Instrument ID: HP21585  
Lims ID: IC L2  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 6  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

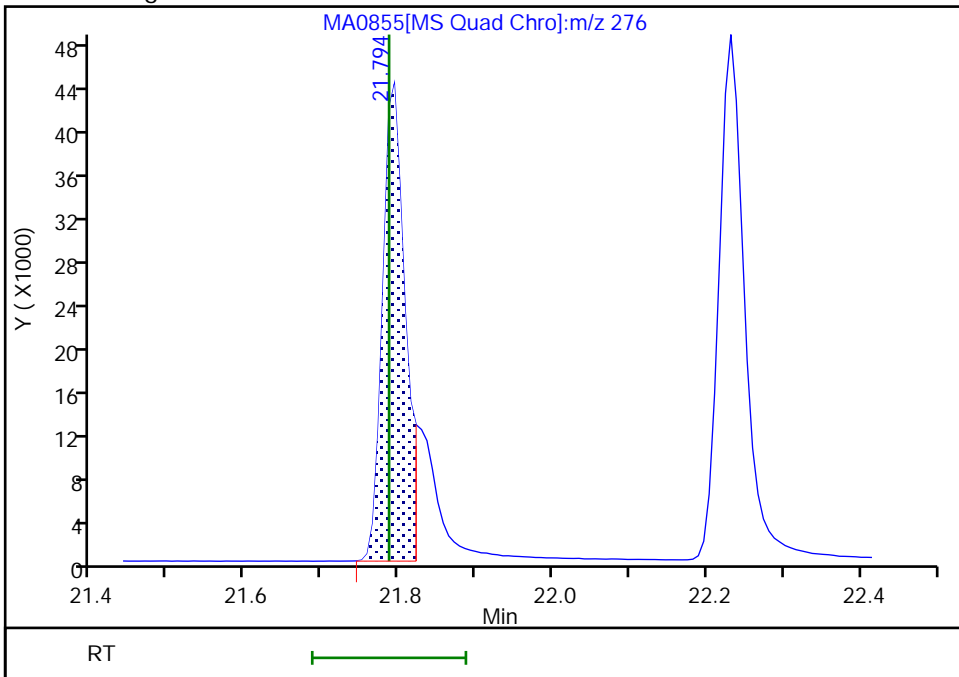
Processing Integration Results

RT: 21.79  
Area: 117043  
Amount: 0.053397  
Amount Units: ug/ml



Manual Integration Results

RT: 21.79  
Area: 88438  
Amount: 0.045160  
Amount Units: ug/ml



Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
 Lims ID: IC L1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 25-Jan-2022 08:29:00 ALS Bottle#: 0 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: IC L1  
 Misc. Info.: 410-0048994-007  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist: chrom-8270\_SIM\_HP21585\*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:07:21 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: transuea

Date: 25-Jan-2022 13:03:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.095	3.095	0.000	97	2125	0.0100	0.0105	M
2 N-Nitrosodimethylamine	74	3.607	3.607	0.000	91	2086	0.0100	0.0102	M
3 Bis(2-chloroethyl)ether	93	6.664	6.664	0.000	96	3381	0.0100	0.0104	
* 4 1,4-Dichlorobenzene-d4	152	6.994	6.994	0.000	98	68161	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	93	228348	0.2500	0.2500	
6 Naphthalene	128	8.952	8.952	0.000	93	12415	0.0100	0.0123	
7 Quinoline	129	9.543	9.543	0.000	84	3788	0.0100	0.007707	
8 2-Methylnaphthalene	142	10.056	10.056	0.000	96	7520	0.0100	0.0109	
\$ 9 1-Methylnaphthalene-d10	152	10.154	10.154	0.000	99	6771	0.0100	0.0115	
10 1-Methylnaphthalene	142	10.203	10.203	0.000	95	7695	0.0100	0.0115	
11 Dimethyl phthalate	163	11.340	11.340	0.000	83	207904	0.2500	0.2585	
12 Acenaphthylene	152	11.486	11.486	0.000	98	12338	0.0100	0.0116	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	94	161316	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	8995	0.0100	0.0123	
15 Dibenzofuran	168	11.997	11.997	0.000	99	12739	0.0100	0.0114	
16 Diethyl phthalate	149	12.333	12.333	0.000	97	188261	0.2500	0.2553	
17 Fluorene	166	12.426	12.426	0.000	95	10128	0.0100	0.0113	
18 N-Nitrosodiphenylamine	169	12.598	12.598	0.000	100	10760	0.0100	0.0103	
19 Hexachlorobenzene	284	13.090	13.090	0.000	89	4114	0.0100	0.0121	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	96	328990	0.2500	0.2500	
21 Phenanthrene	178	13.613	13.613	0.000	100	18538	0.0100	0.0129	
22 Anthracene	178	13.691	13.691	0.000	100	15795	0.0100	0.0118	
23 Di-n-butyl phthalate	149	14.398	14.398	0.000	100	294909	0.2500	0.2465	
\$ 24 Fluoranthene-d10 (Surr)	212	15.257	15.257	0.000	97	22517	0.0100	0.0137	
25 Fluoranthene	202	15.282	15.282	0.000	99	21281	0.0100	0.0118	
26 Pyrene	202	15.626	15.626	0.000	97	22836	0.0100	0.0126	
27 Butyl benzyl phthalate	149	16.745	16.745	0.000	100	125839	0.2500	0.2391	
28 Benzo[a]anthracene	228	17.635	17.635	0.000	100	21064	0.0100	0.0119	
* 29 Chrysene-d12	240	17.650	17.650	0.000	57	373997	0.2500	0.2500	
30 Chrysene	228	17.704	17.704	0.000	100	26852	0.0100	0.0131	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.796	17.796	0.000	97	173776	0.2500	0.2324	
32 Di-n-octyl phthalate	149	18.962	18.962	0.000	100	300061	0.2500	0.2525	
33 Benzo[b]fluoranthene	252	19.506	19.506	0.000	100	22518	0.0100	0.0120	
34 Benzo[k]fluoranthene	252	19.552	19.552	0.000	100	28560	0.0100	0.0133	
35 Benzo[e]pyrene	252	19.951	19.951	0.000	100	23688	0.0100	0.0126	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.997	19.997	0.000	98	20202	0.0100	0.0142	
37 Benzo[a]pyrene	252	20.035	20.035	0.000	100	22402	0.0100	0.0123	
* 38 Perylene-d12	264	20.127	20.127	0.000	98	409775	0.2500	0.2500	
39 Perylene	252	20.166	20.166	0.000	100	25748	0.0100	0.0133	
40 Indeno[1,2,3-cd]pyrene	276	21.805	21.805	0.000	98	19168	0.0100	0.0111	M
41 Dibenz(a,h)anthracene	278	21.847	21.847	0.000	94	20749	0.0100	0.0108	
42 Benzo[g,h,i]perylene	276	22.243	22.243	0.000	94	27039	0.0100	0.0125	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

MSS\_RVSIM\_1\_00014

Amount Added: 1.00

Units: mL



Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Injection Date: 25-Jan-2022 08:29:00

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: IC L1

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

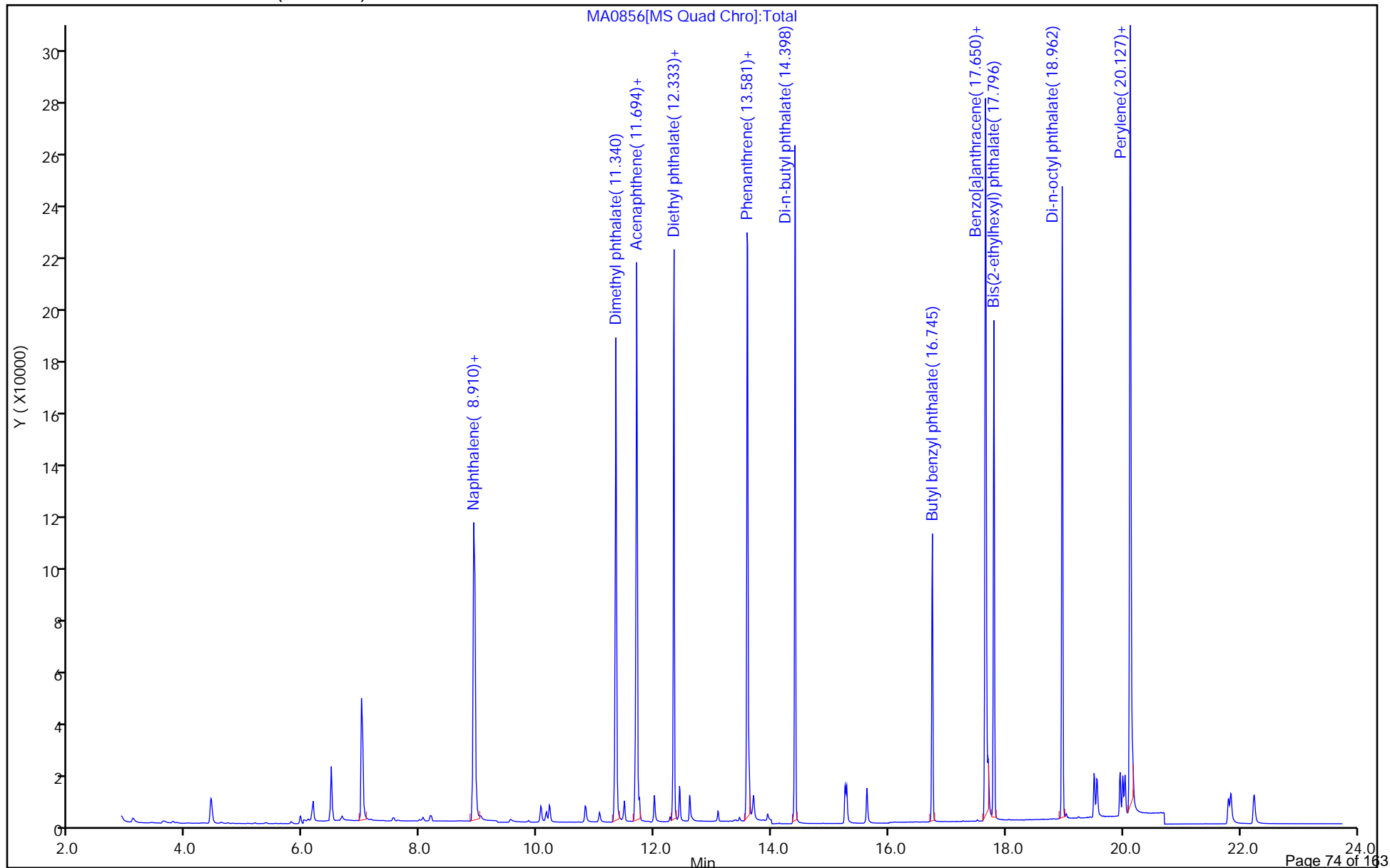
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm ( 0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

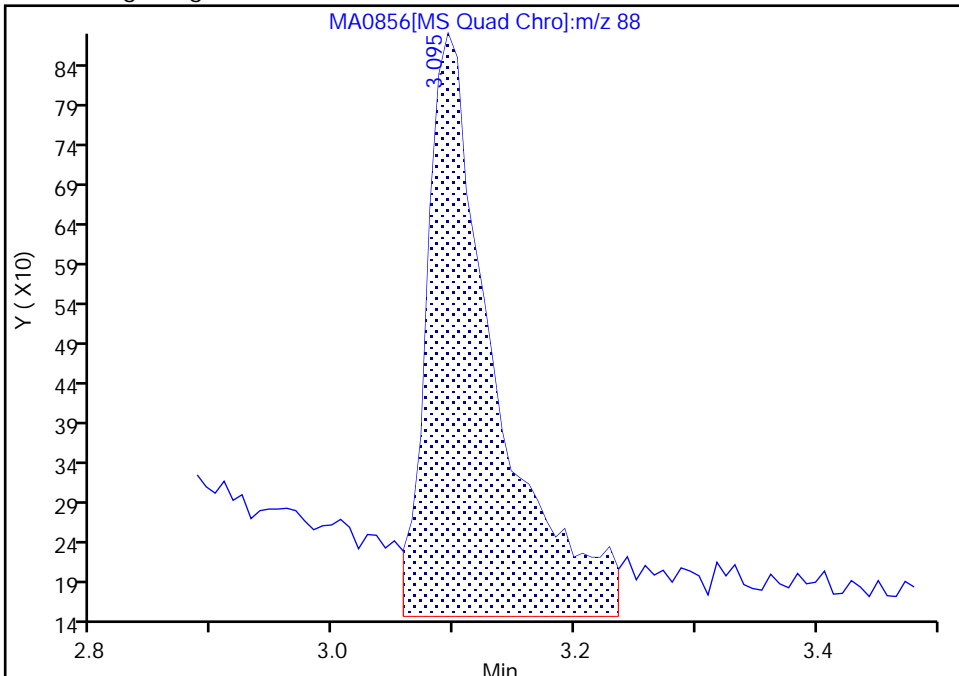
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
Injection Date: 25-Jan-2022 08:29:00 Instrument ID: HP21585  
Lims ID: IC L1  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

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

Signal: 1

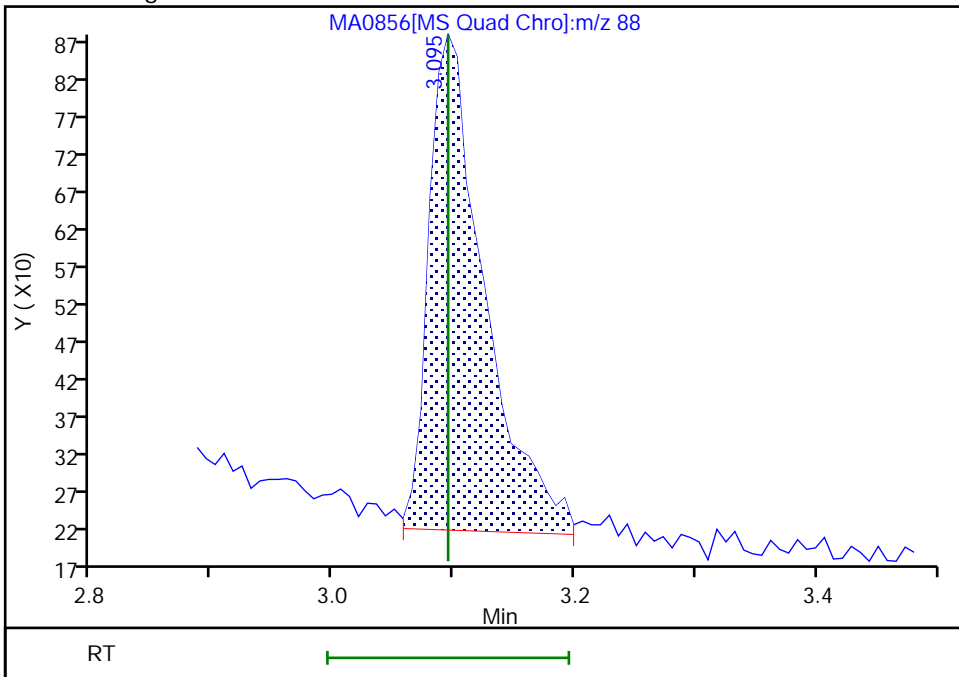
RT: 3.09  
Area: 2845  
Amount: 0.013283  
Amount Units: ug/ml

Processing Integration Results



RT: 3.09  
Area: 2125  
Amount: 0.010510  
Amount Units: ug/ml

Manual Integration Results



Reviewer: transuea, 25-Jan-2022 13:01:42  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 63 of 151

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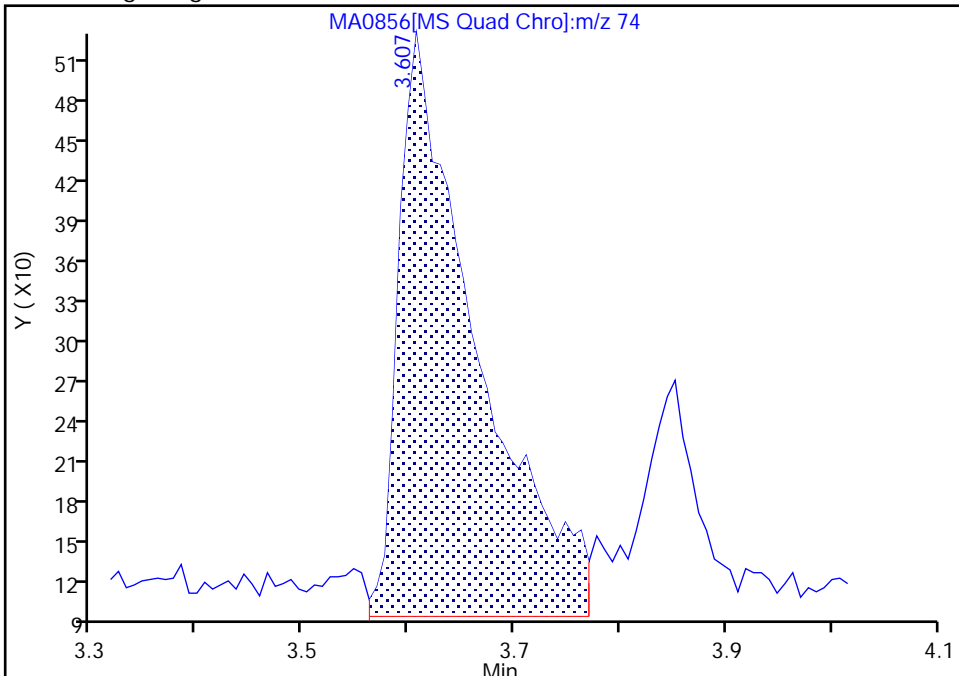
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
Injection Date: 25-Jan-2022 08:29:00 Instrument ID: HP21585  
Lims ID: IC L1  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

2 N-Nitrosodimethylamine, CAS: 62-75-9

Signal: 1

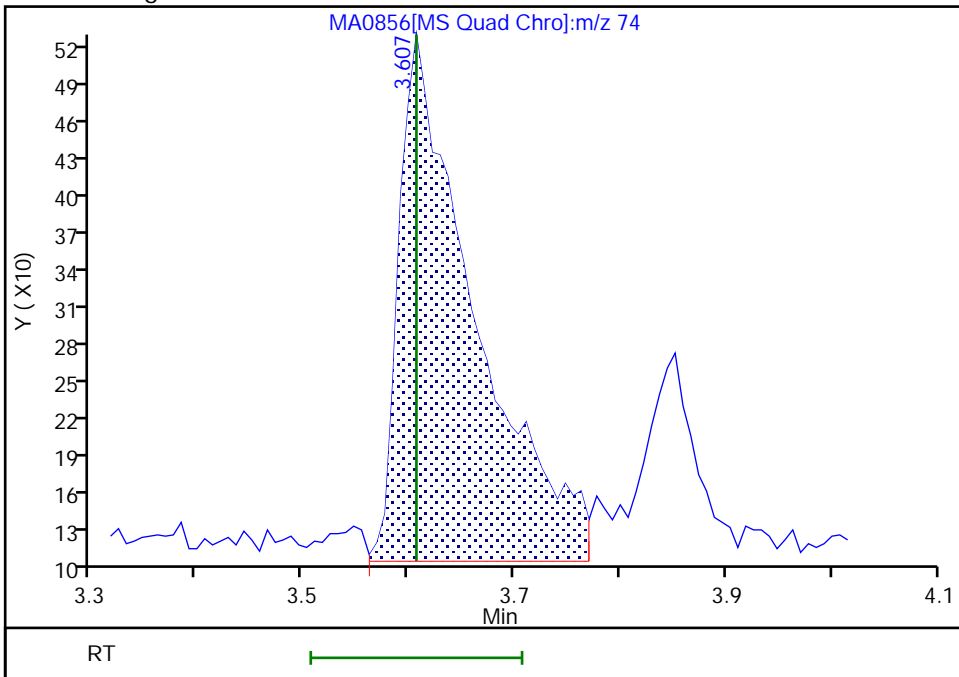
RT: 3.61  
Area: 2173  
Amount: 0.010565  
Amount Units: ug/ml

Processing Integration Results



RT: 3.61  
Area: 2086  
Amount: 0.010214  
Amount Units: ug/ml

Manual Integration Results



Euofins Lancaster Laboratories Env, LLC

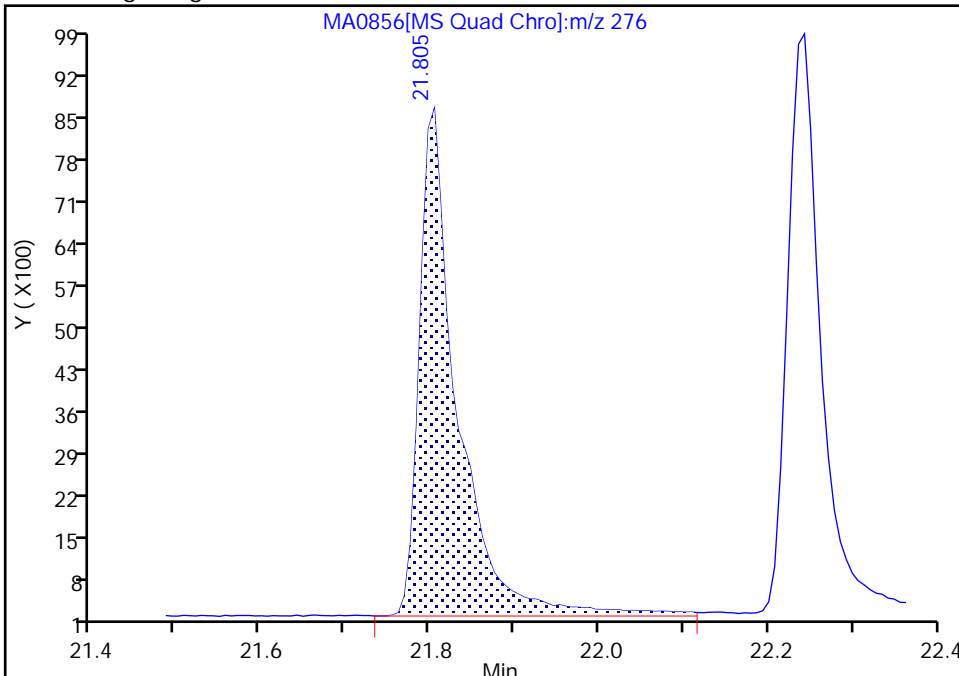
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Injection Date: 25-Jan-2022 08:29:00 Instrument ID: HP21585  
Lims ID: IC L1  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 7  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector: MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

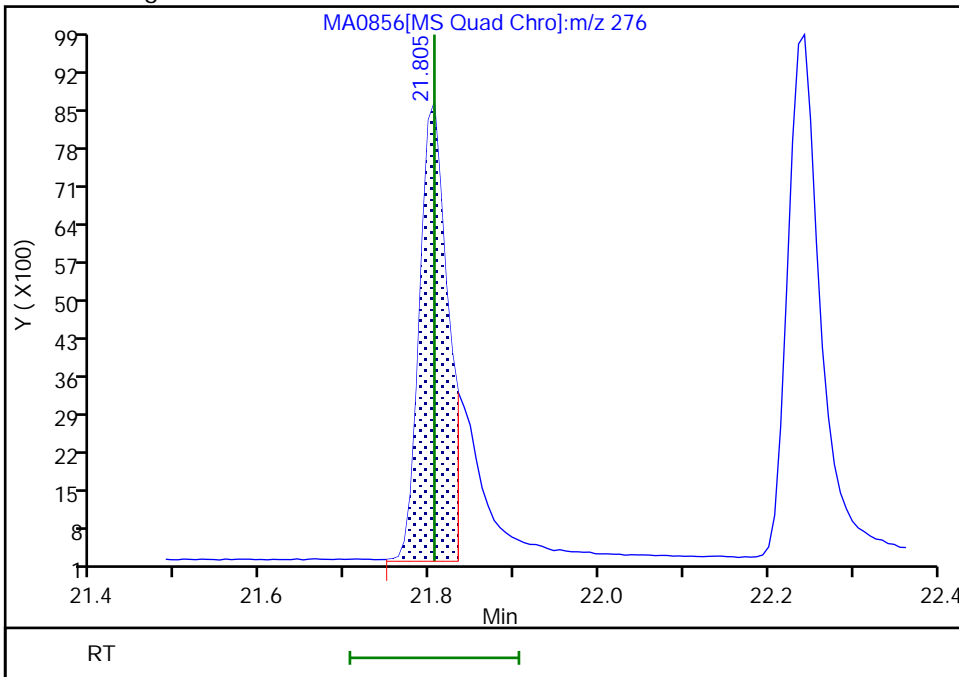
RT: 21.81  
Area: 26456  
Amount: 0.012514  
Amount Units: ug/ml

Processing Integration Results



RT: 21.81  
Area: 19168  
Amount: 0.011141  
Amount Units: ug/ml

Manual Integration Results



Calibration

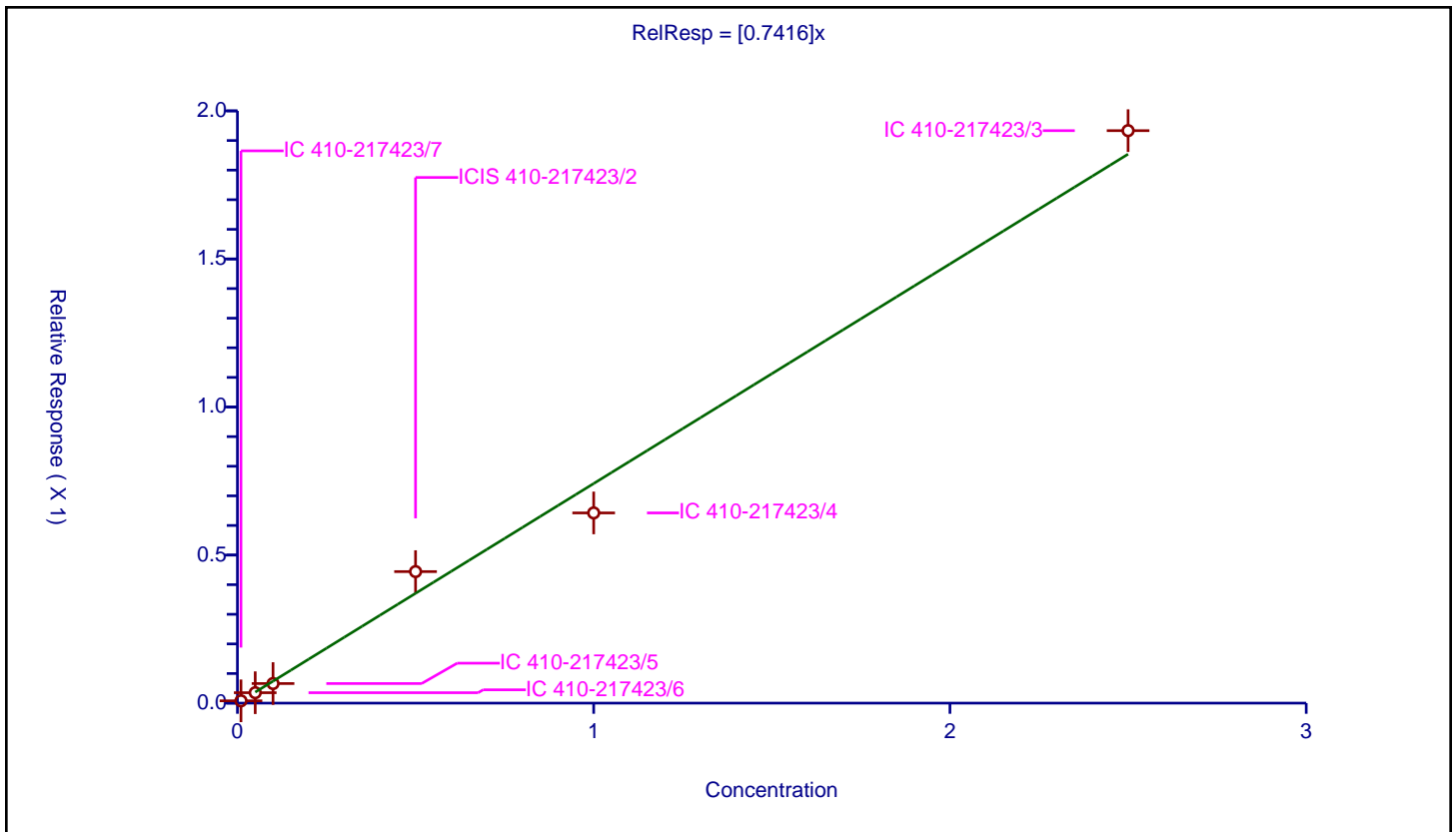
/ 1,4-Dioxane

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7416

Error Coefficients	
Standard Error:	257000
Relative Standard Error:	12.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.007794	0.25	68161.0	0.779405	Y
2	IC 410-217423/6	0.05	0.035225	0.25	70483.0	0.704496	Y
3	IC 410-217423/5	0.1	0.066146	0.25	76804.0	0.661456	Y
4	ICIS 410-217423/2	0.5	0.44421	0.25	63900.0	0.888419	Y
5	IC 410-217423/4	1.0	0.642364	0.25	78577.0	0.642364	Y
6	IC 410-217423/3	2.5	1.933236	0.25	68094.0	0.773294	Y



Calibration

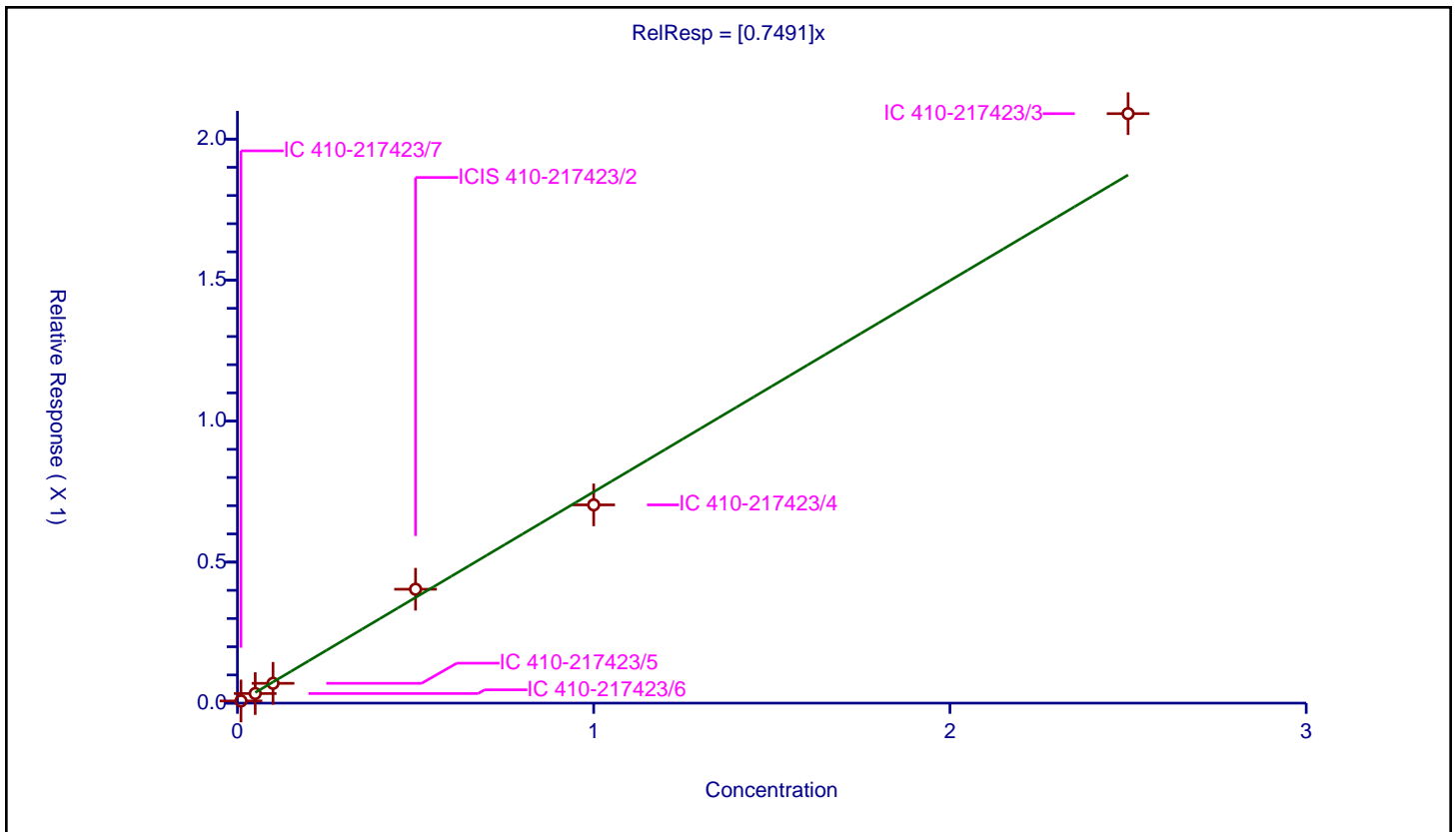
/ N-Nitrosodimethylamine

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7491

Error Coefficients	
Standard Error:	277000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.007651	0.25	68161.0	0.7651	Y
2	IC 410-217423/6	0.05	0.034026	0.25	70483.0	0.680519	Y
3	IC 410-217423/5	0.1	0.070214	0.25	76804.0	0.702144	Y
4	ICIS 410-217423/2	0.5	0.403865	0.25	63900.0	0.807731	Y
5	IC 410-217423/4	1.0	0.703005	0.25	78577.0	0.703005	Y
6	IC 410-217423/3	2.5	2.090221	0.25	68094.0	0.836088	Y



Calibration

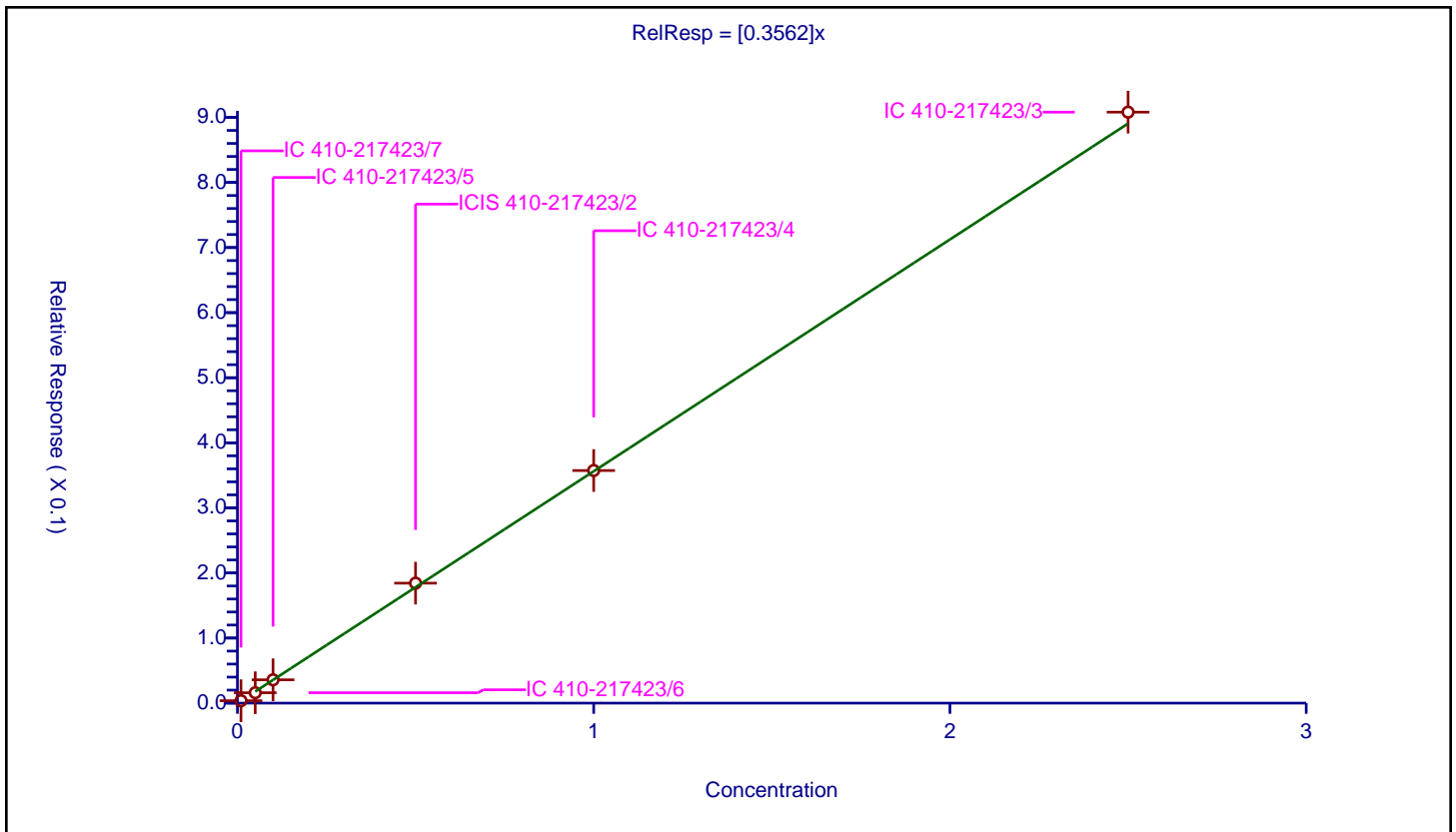
/ Bis(2-chloroethyl)ether

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3562

Error Coefficients	
Standard Error:	417000
Relative Standard Error:	5.2
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.003702	0.25	228348.0	0.370159	Y
2	IC 410-217423/6	0.05	0.015981	0.25	240727.0	0.319615	Y
3	IC 410-217423/5	0.1	0.035815	0.25	260668.0	0.358147	Y
4	ICIS 410-217423/2	0.5	0.184344	0.25	207121.0	0.368688	Y
5	IC 410-217423/4	1.0	0.357422	0.25	269741.0	0.357422	Y
6	IC 410-217423/3	2.5	0.908073	0.25	229375.0	0.363229	Y



Calibration

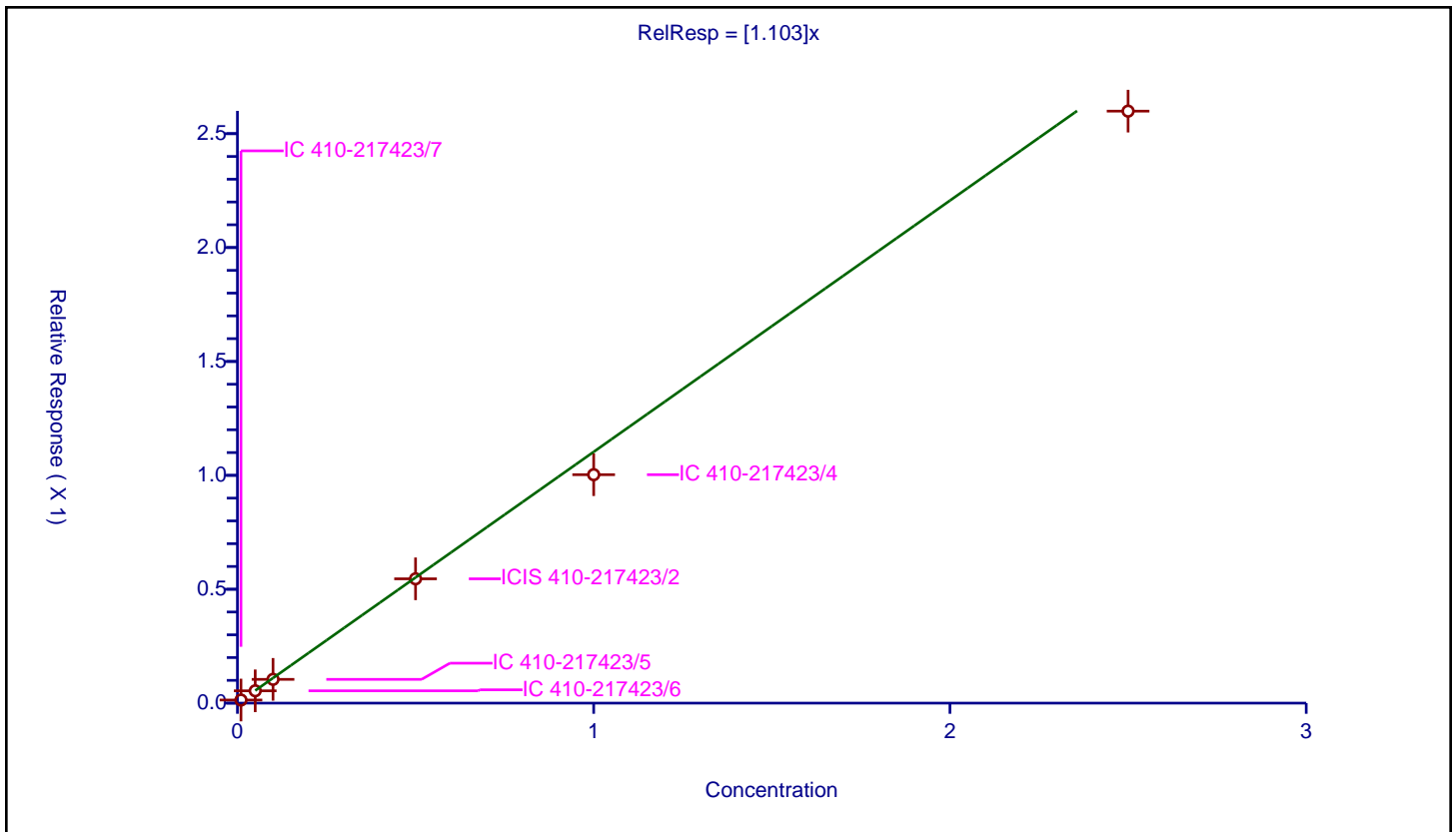
/ Naphthalene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.103

Error Coefficients	
Standard Error:	1190000
Relative Standard Error:	11.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.013592	0.25	228348.0	1.359219	Y
2	IC 410-217423/6	0.05	0.054111	0.25	240727.0	1.082222	Y
3	IC 410-217423/5	0.1	0.104352	0.25	260668.0	1.043521	Y
4	ICIS 410-217423/2	0.5	0.545751	0.25	207121.0	1.091502	Y
5	IC 410-217423/4	1.0	1.00287	0.25	269741.0	1.00287	Y
6	IC 410-217423/3	2.5	2.5989	0.25	229375.0	1.03956	Y





Calibration

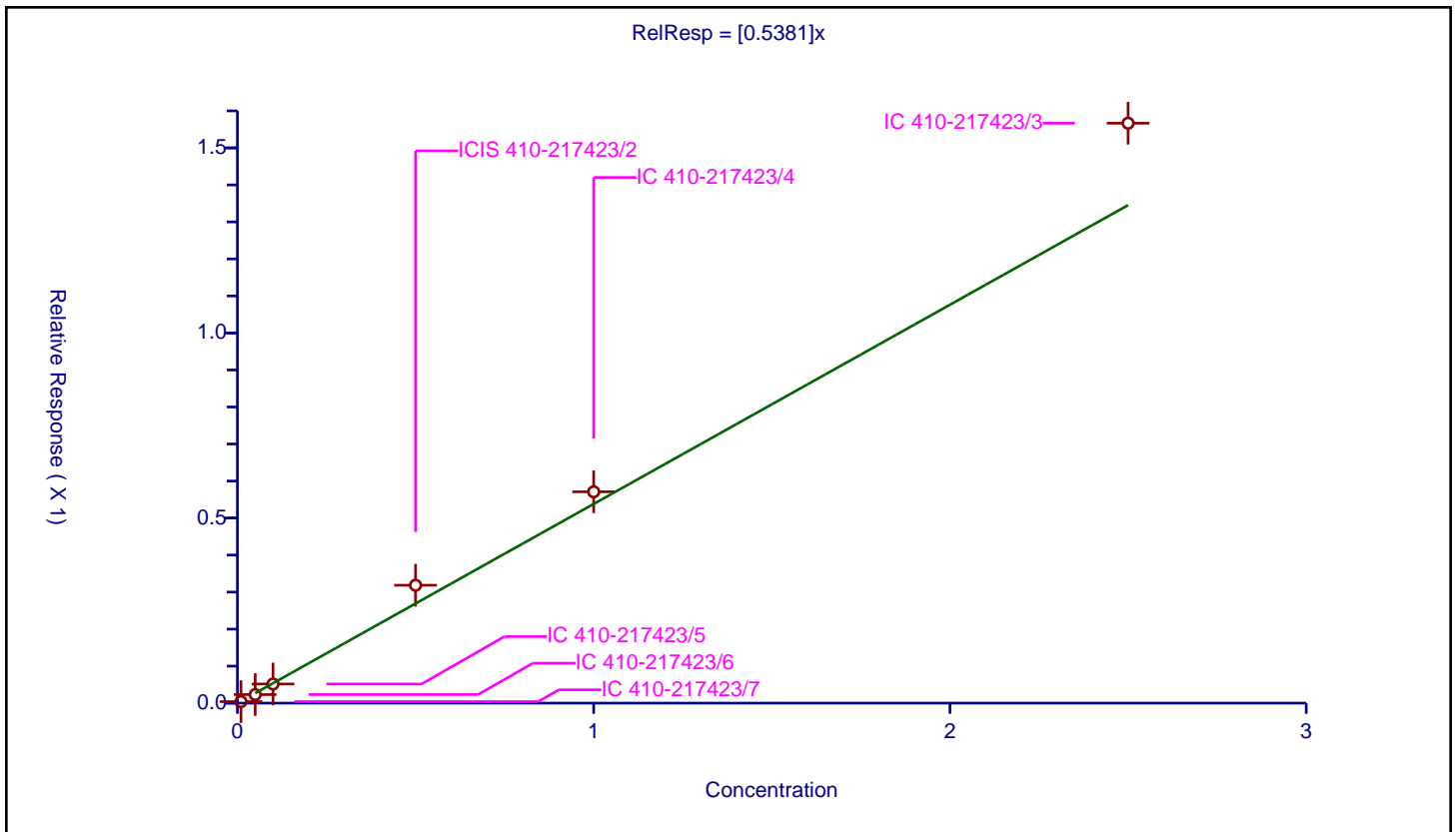
/ Quinoline

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5381

Error Coefficients	
Standard Error:	710000
Relative Standard Error:	16.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.973

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.004147	0.25	228348.0	0.414718	Y
2	IC 410-217423/6	0.05	0.023127	0.25	240727.0	0.462536	Y
3	IC 410-217423/5	0.1	0.05169	0.25	260668.0	0.516903	Y
4	ICIS 410-217423/2	0.5	0.318468	0.25	207121.0	0.636937	Y
5	IC 410-217423/4	1.0	0.570967	0.25	269741.0	0.570967	Y
6	IC 410-217423/3	2.5	1.566683	0.25	229375.0	0.626673	Y



Calibration

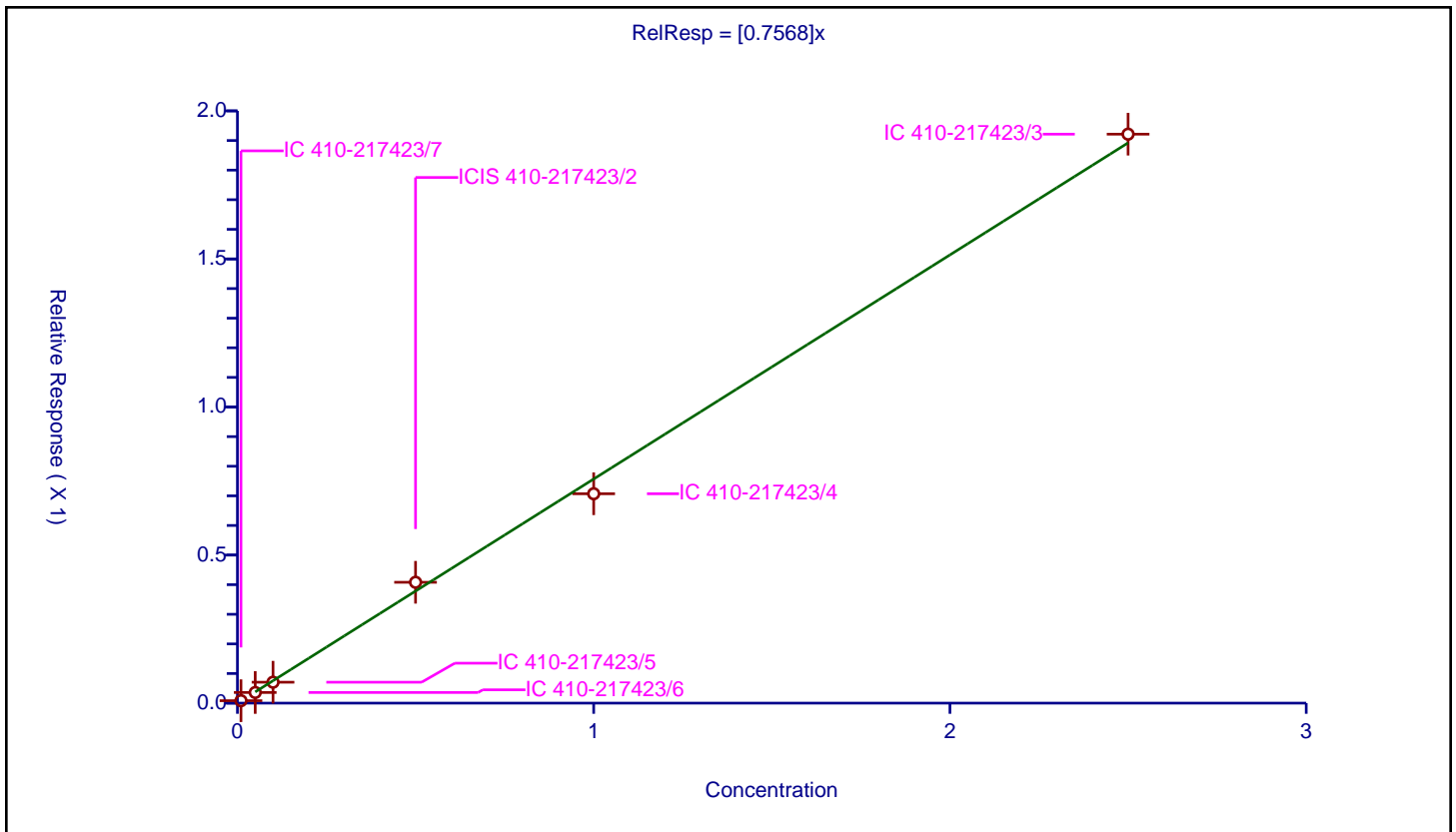
/ 2-Methylnaphthalene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7568

Error Coefficients	
Standard Error:	873000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.008233	0.25	228348.0	0.823305	Y
2	IC 410-217423/6	0.05	0.035941	0.25	240727.0	0.718823	Y
3	IC 410-217423/5	0.1	0.070688	0.25	260668.0	0.706876	Y
4	ICIS 410-217423/2	0.5	0.40812	0.25	207121.0	0.81624	Y
5	IC 410-217423/4	1.0	0.707125	0.25	269741.0	0.707125	Y
6	IC 410-217423/3	2.5	1.921404	0.25	229375.0	0.768562	Y



Calibration

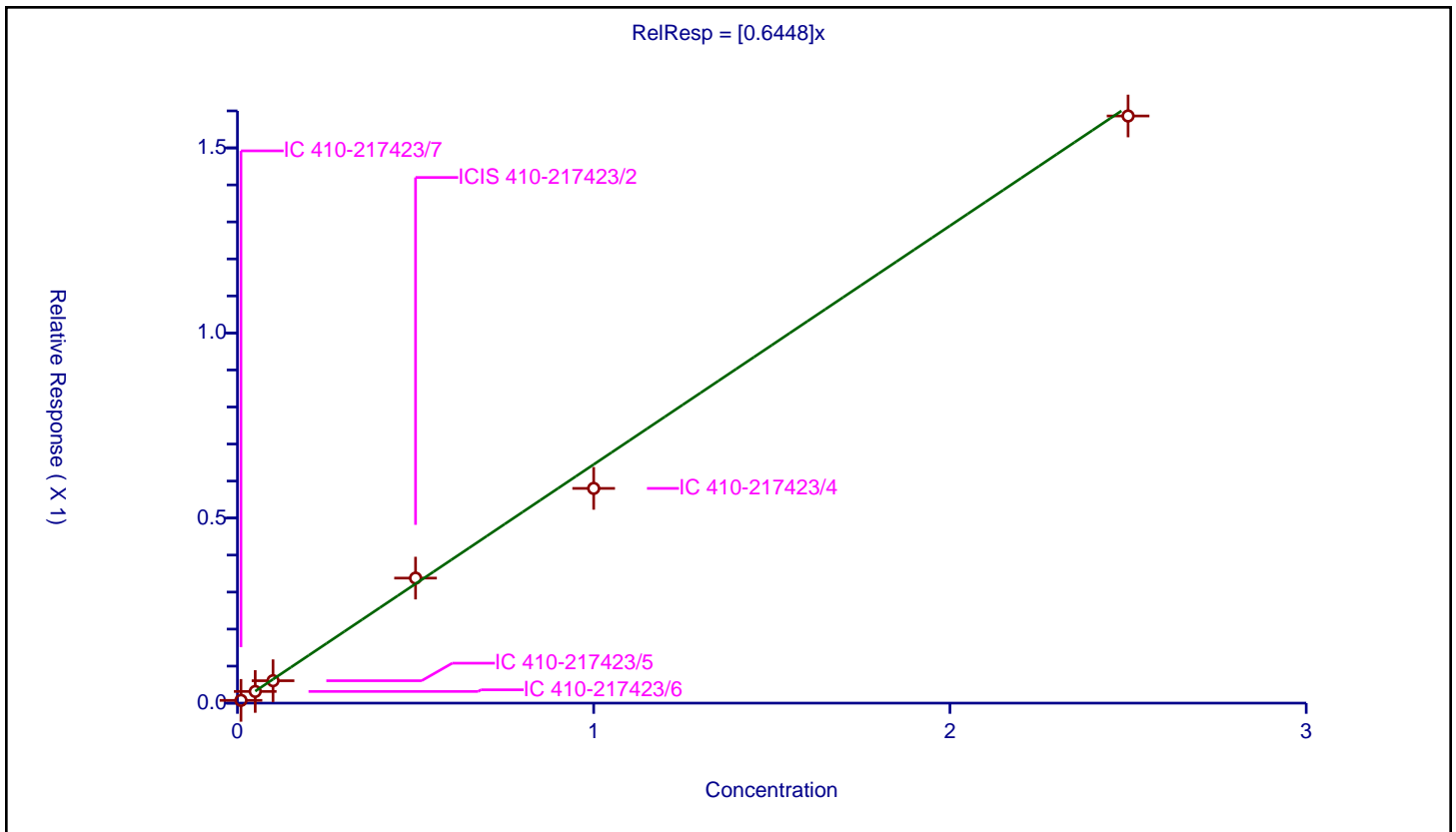
/ 1-Methylnaphthalene-d10

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6448

Error Coefficients	
Standard Error:	720000
Relative Standard Error:	8.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.007413	0.25	228348.0	0.741303	Y
2	IC 410-217423/6	0.05	0.031583	0.25	240727.0	0.63167	Y
3	IC 410-217423/5	0.1	0.060561	0.25	260668.0	0.605608	Y
4	ICIS 410-217423/2	0.5	0.337812	0.25	207121.0	0.675624	Y
5	IC 410-217423/4	1.0	0.580105	0.25	269741.0	0.580105	Y
6	IC 410-217423/3	2.5	1.586247	0.25	229375.0	0.634499	Y



**Calibration**

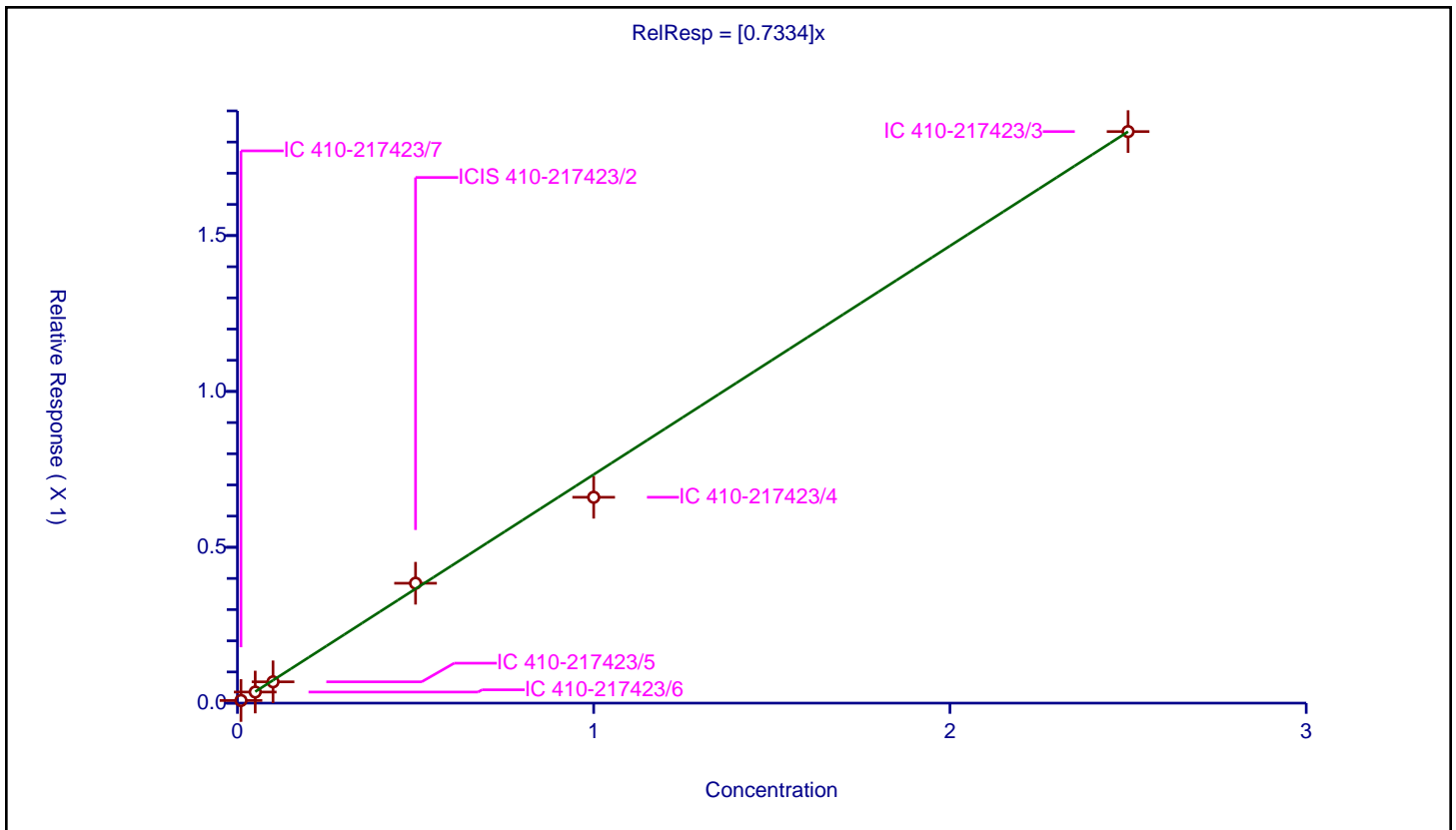
**/ 1-Methylnaphthalene**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ISTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	0.7334

Error Coefficients	
Standard Error:	830000
Relative Standard Error:	8.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.008425	0.25	228348.0	0.842464	Y
2	IC 410-217423/6	0.05	0.035568	0.25	240727.0	0.711366	Y
3	IC 410-217423/5	0.1	0.06833	0.25	260668.0	0.683302	Y
4	ICIS 410-217423/2	0.5	0.384601	0.25	207121.0	0.769203	Y
5	IC 410-217423/4	1.0	0.660477	0.25	269741.0	0.660477	Y
6	IC 410-217423/3	2.5	1.833611	0.25	229375.0	0.733444	Y



**Calibration**

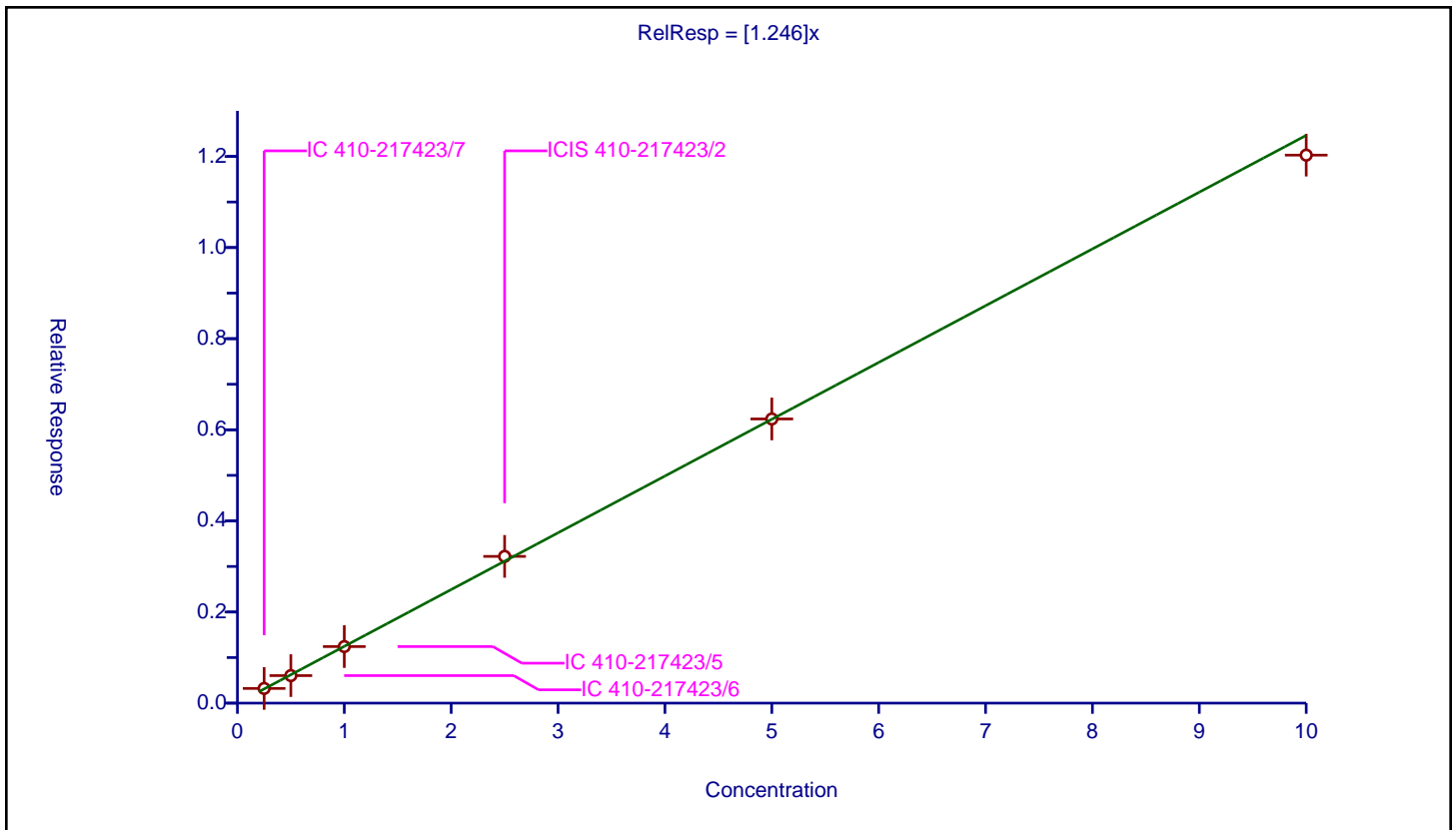
/ Dimethyl phthalate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.246

Error Coefficients	
Standard Error:	4460000
Relative Standard Error:	3.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.3222	0.25	161316.0	1.2888	Y
2	IC 410-217423/6	0.5	0.604224	0.25	173665.0	1.208447	Y
3	IC 410-217423/5	1.0	1.241404	0.25	182901.0	1.241404	Y
4	ICIS 410-217423/2	2.5	3.221079	0.25	157490.0	1.288432	Y
5	IC 410-217423/4	5.0	6.237461	0.25	183568.0	1.247492	Y
6	IC 410-217423/3	10.0	12.028978	0.25	177754.0	1.202898	Y



**Calibration**

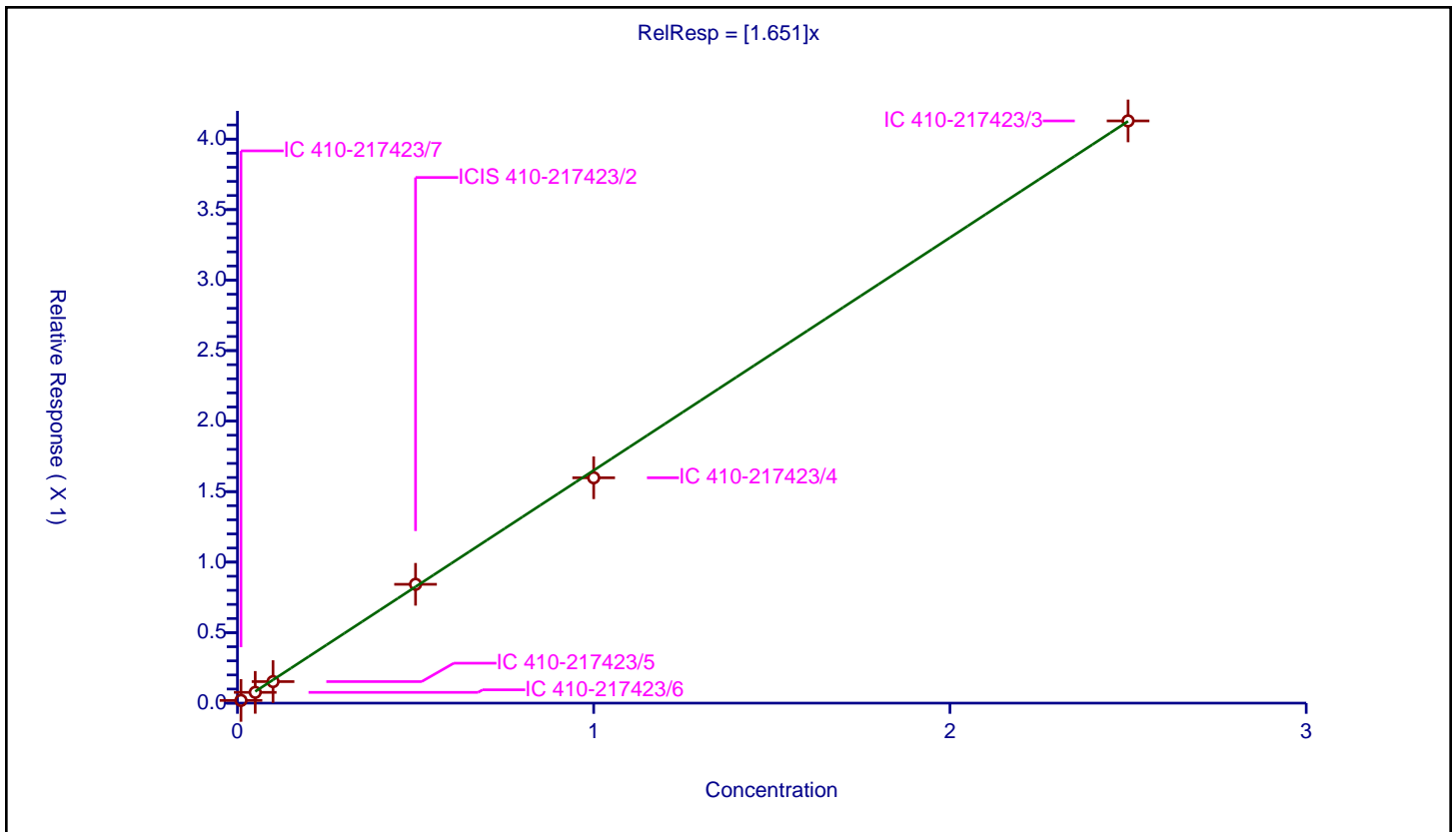
**/ Acenaphthylene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.651

Error Coefficients	
Standard Error:	1430000
Relative Standard Error:	8.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.019121	0.25	161316.0	1.912086	Y
2	IC 410-217423/6	0.05	0.076479	0.25	173665.0	1.529583	Y
3	IC 410-217423/5	0.1	0.152656	0.25	182901.0	1.526564	Y
4	ICIS 410-217423/2	0.5	0.842754	0.25	157490.0	1.685507	Y
5	IC 410-217423/4	1.0	1.59816	0.25	183568.0	1.59816	Y
6	IC 410-217423/3	2.5	4.129069	0.25	177754.0	1.651628	Y



**Calibration**

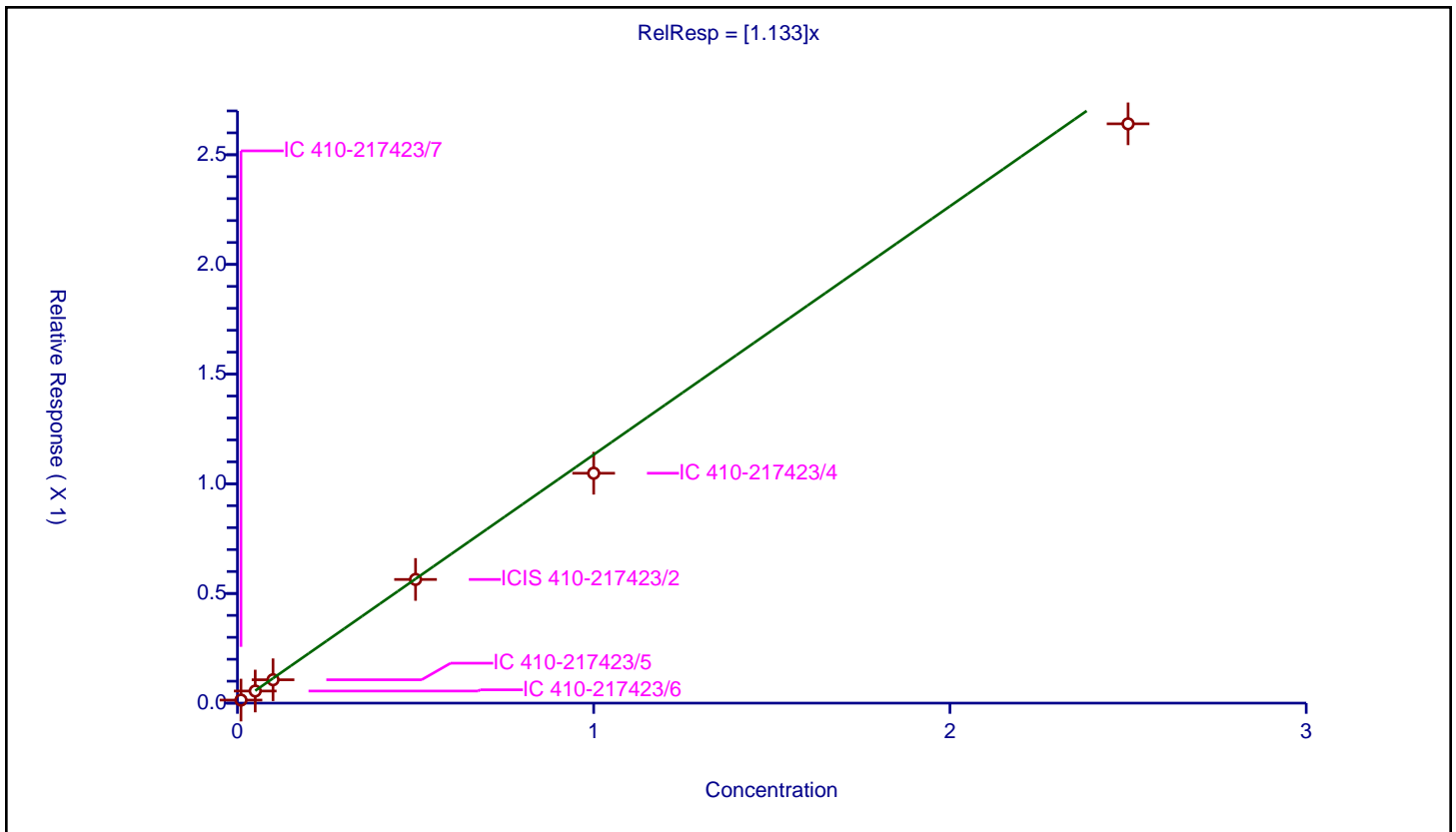
**/ Acenaphthene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.133

Error Coefficients	
Standard Error:	922000
Relative Standard Error:	11.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.01394	0.25	161316.0	1.394003	Y
2	IC 410-217423/6	0.05	0.055217	0.25	173665.0	1.104339	Y
3	IC 410-217423/5	0.1	0.106548	0.25	182901.0	1.065481	Y
4	ICIS 410-217423/2	0.5	0.563818	0.25	157490.0	1.127637	Y
5	IC 410-217423/4	1.0	1.048061	0.25	183568.0	1.048061	Y
6	IC 410-217423/3	2.5	2.641088	0.25	177754.0	1.056435	Y



**Calibration**

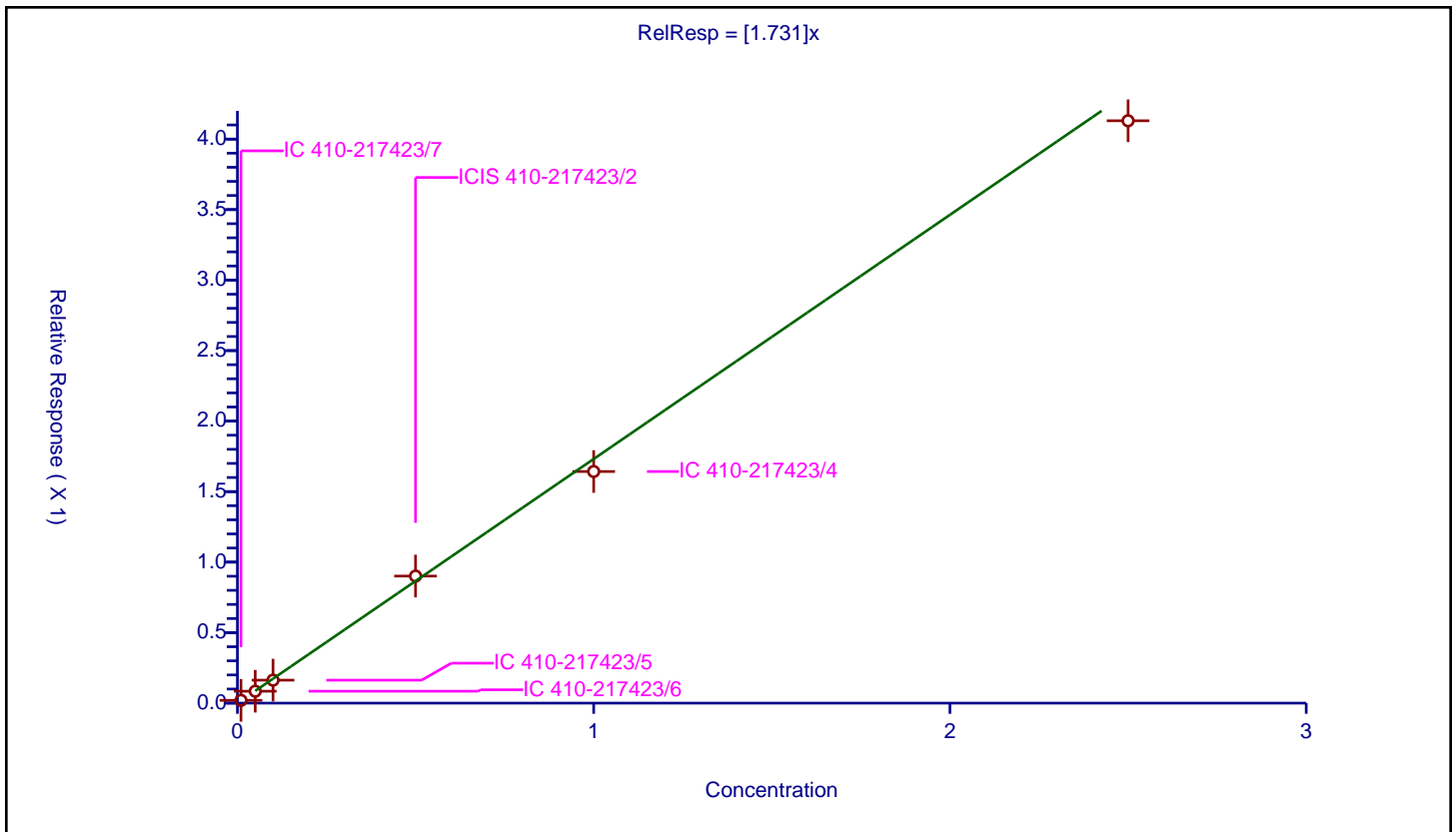
/ Dibenzofuran

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.731

Error Coefficients	
Standard Error:	1440000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.019742	0.25	161316.0	1.974231	Y
2	IC 410-217423/6	0.05	0.084443	0.25	173665.0	1.688855	Y
3	IC 410-217423/5	0.1	0.162879	0.25	182901.0	1.628791	Y
4	ICIS 410-217423/2	0.5	0.901025	0.25	157490.0	1.802051	Y
5	IC 410-217423/4	1.0	1.642632	0.25	183568.0	1.642632	Y
6	IC 410-217423/3	2.5	4.129923	0.25	177754.0	1.651969	Y





**Calibration**

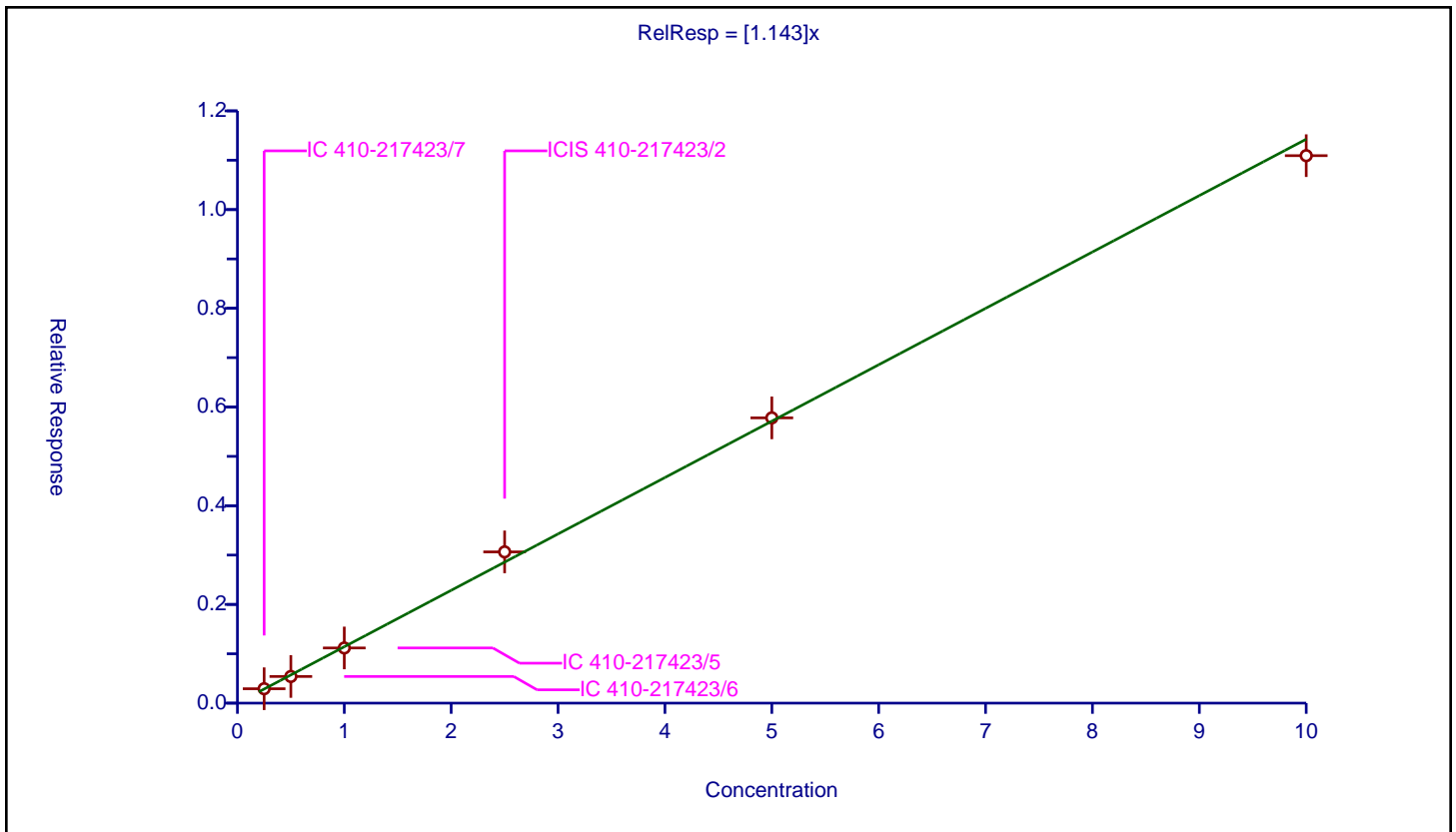
/ Diethyl phthalate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.143

Error Coefficients	
Standard Error:	4120000
Relative Standard Error:	4.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.291758	0.25	161316.0	1.167032	Y
2	IC 410-217423/6	0.5	0.539963	0.25	173665.0	1.079927	Y
3	IC 410-217423/5	1.0	1.117841	0.25	182901.0	1.117841	Y
4	ICIS 410-217423/2	2.5	3.06448	0.25	157490.0	1.225792	Y
5	IC 410-217423/4	5.0	5.780141	0.25	183568.0	1.156028	Y
6	IC 410-217423/3	10.0	11.093051	0.25	177754.0	1.109305	Y



**Calibration**

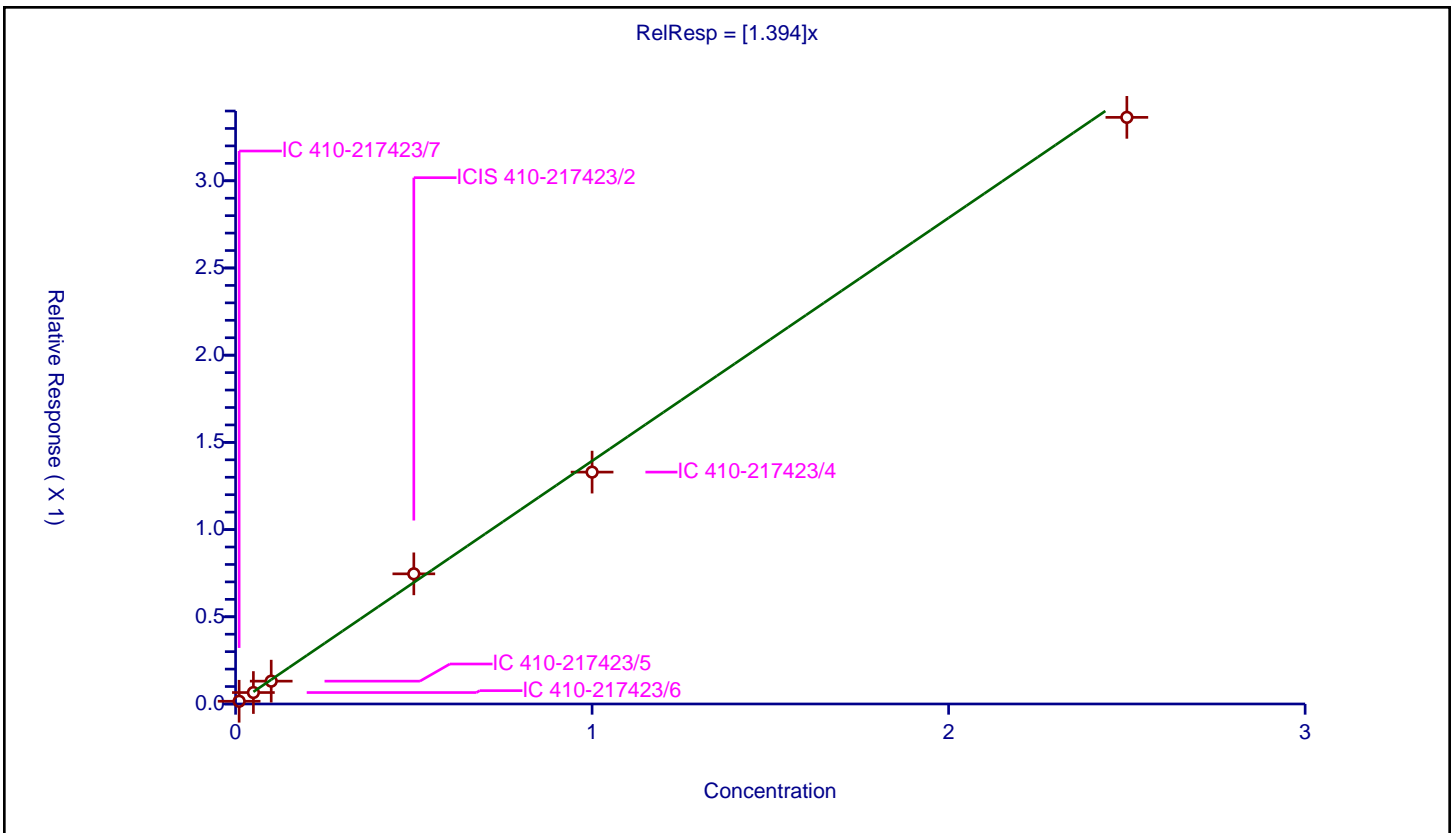
**/ Fluorene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.394

Error Coefficients	
Standard Error:	1180000
Relative Standard Error:	7.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.015696	0.25	161316.0	1.56959	Y
2	IC 410-217423/6	0.05	0.065737	0.25	173665.0	1.314744	Y
3	IC 410-217423/5	0.1	0.130972	0.25	182901.0	1.309725	Y
4	ICIS 410-217423/2	0.5	0.746189	0.25	157490.0	1.492377	Y
5	IC 410-217423/4	1.0	1.329565	0.25	183568.0	1.329565	Y
6	IC 410-217423/3	2.5	3.363675	0.25	177754.0	1.34547	Y



Calibration

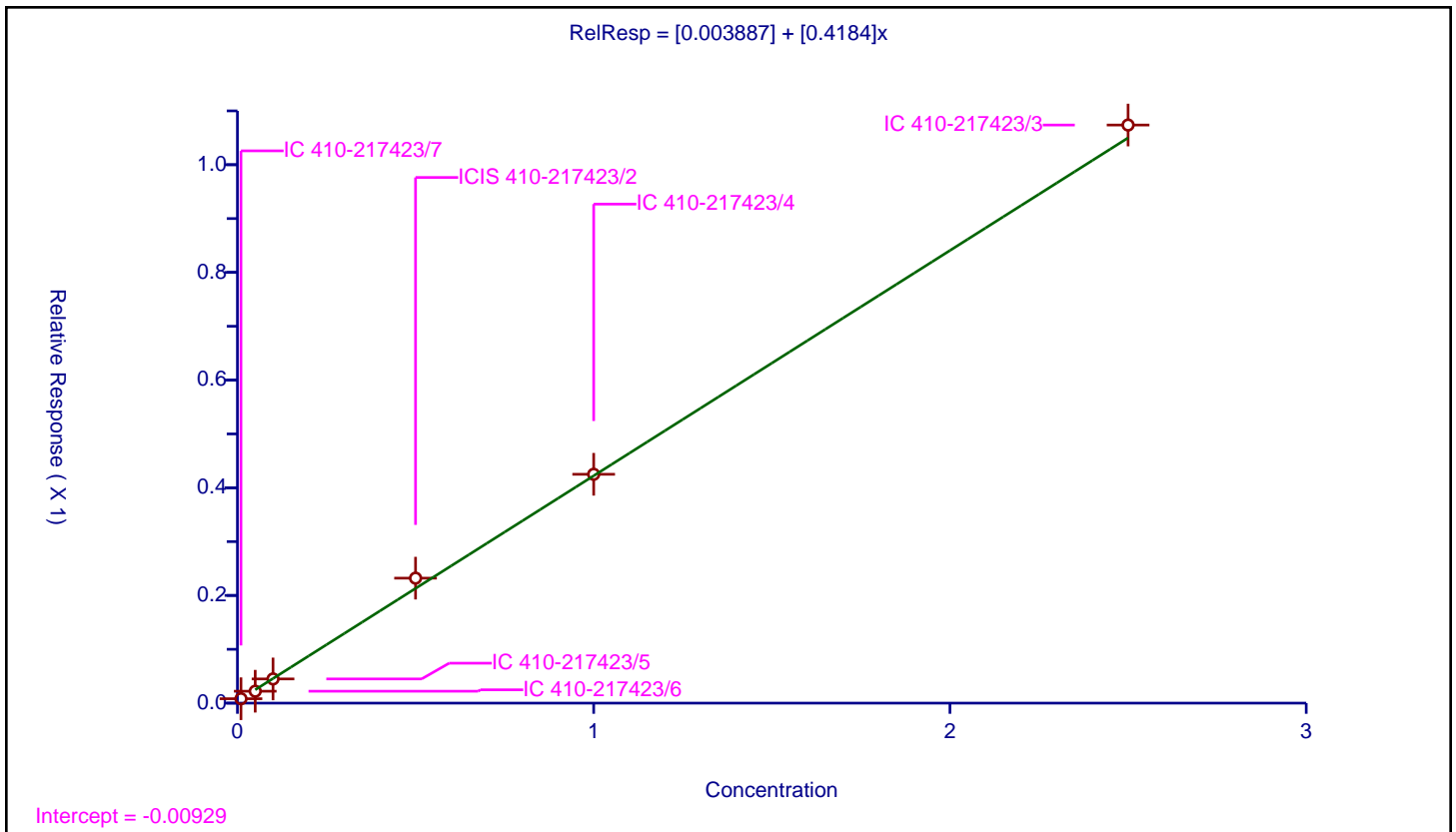
/ N-Nitrosodiphenylamine

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.003887
Slope:	0.4184

Error Coefficients	
Standard Error:	869000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.008177	0.25	328990.0	0.817654	Y
2	IC 410-217423/6	0.05	0.022161	0.25	357225.0	0.443222	Y
3	IC 410-217423/5	0.1	0.044925	0.25	373071.0	0.449251	Y
4	ICIS 410-217423/2	0.5	0.232116	0.25	345456.0	0.464231	Y
5	IC 410-217423/4	1.0	0.425068	0.25	385885.0	0.425068	Y
6	IC 410-217423/3	2.5	1.073711	0.25	366599.0	0.429484	Y



**Calibration**

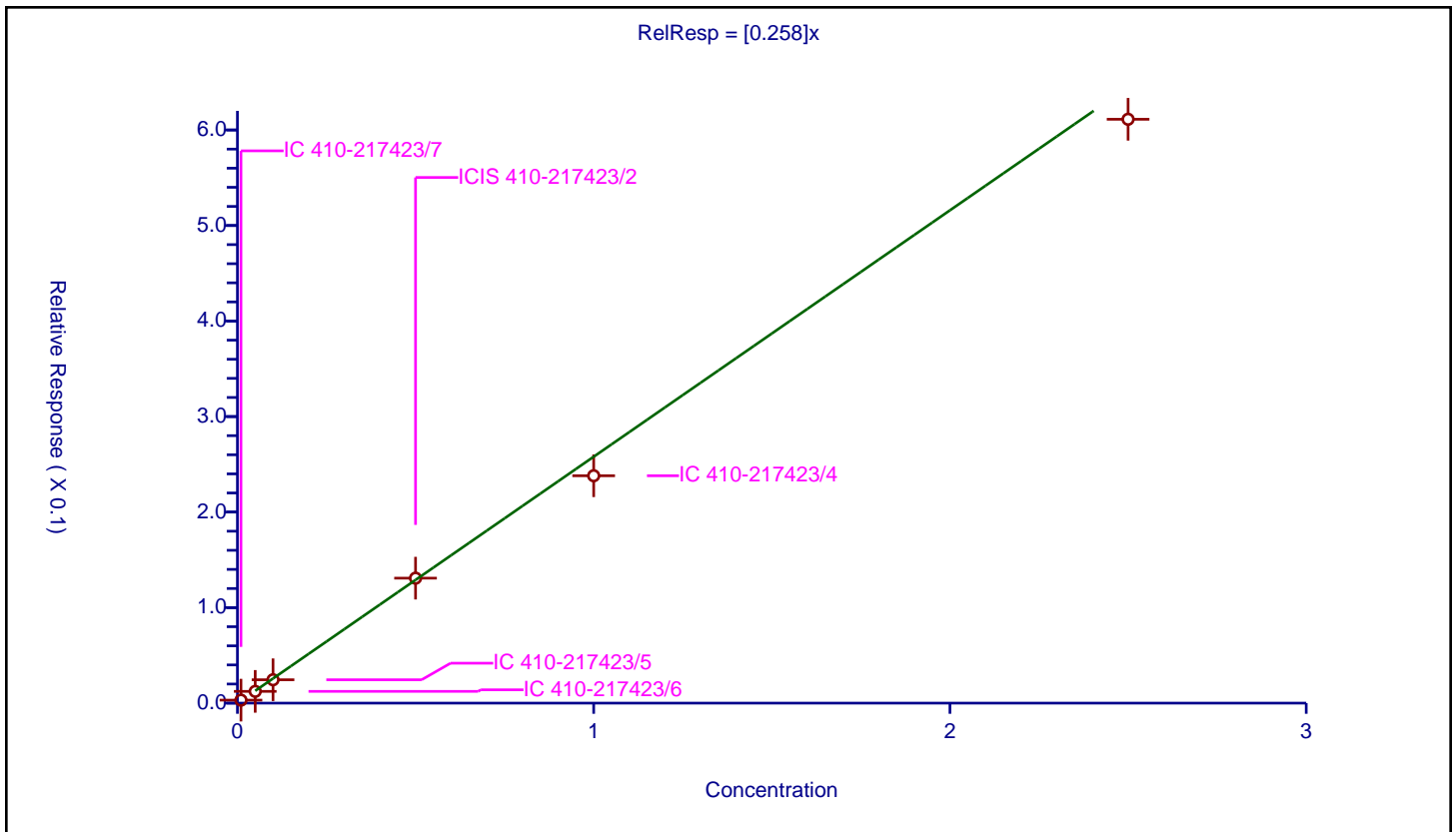
/ Hexachlorobenzene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.258

Error Coefficients	
Standard Error:	441000
Relative Standard Error:	10.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.003126	0.25	328990.0	0.312623	Y
2	IC 410-217423/6	0.05	0.012313	0.25	357225.0	0.246259	Y
3	IC 410-217423/5	0.1	0.024467	0.25	373071.0	0.244672	Y
4	ICIS 410-217423/2	0.5	0.130828	0.25	345456.0	0.261656	Y
5	IC 410-217423/4	1.0	0.238042	0.25	385885.0	0.238042	Y
6	IC 410-217423/3	2.5	0.61122	0.25	366599.0	0.244488	Y



**Calibration**

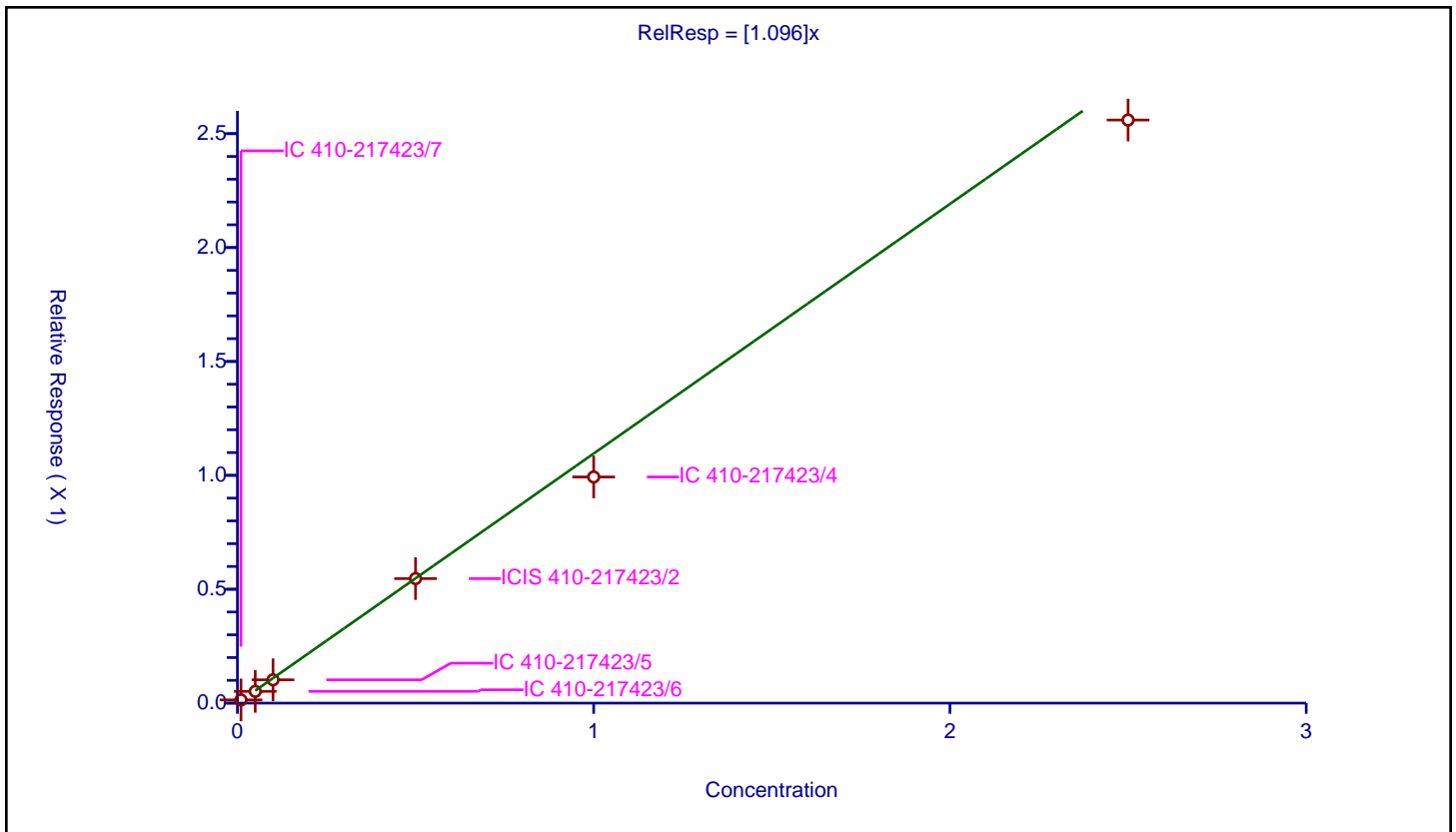
**/ Phenanthrene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.096

Error Coefficients	
Standard Error:	1850000
Relative Standard Error:	14.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.972

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.014087	0.25	328990.0	1.408705	Y
2	IC 410-217423/6	0.05	0.051611	0.25	357225.0	1.032221	Y
3	IC 410-217423/5	0.1	0.10232	0.25	373071.0	1.023203	Y
4	ICIS 410-217423/2	0.5	0.546633	0.25	345456.0	1.093265	Y
5	IC 410-217423/4	1.0	0.992905	0.25	385885.0	0.992905	Y
6	IC 410-217423/3	2.5	2.559948	0.25	366599.0	1.023979	Y



**Calibration**

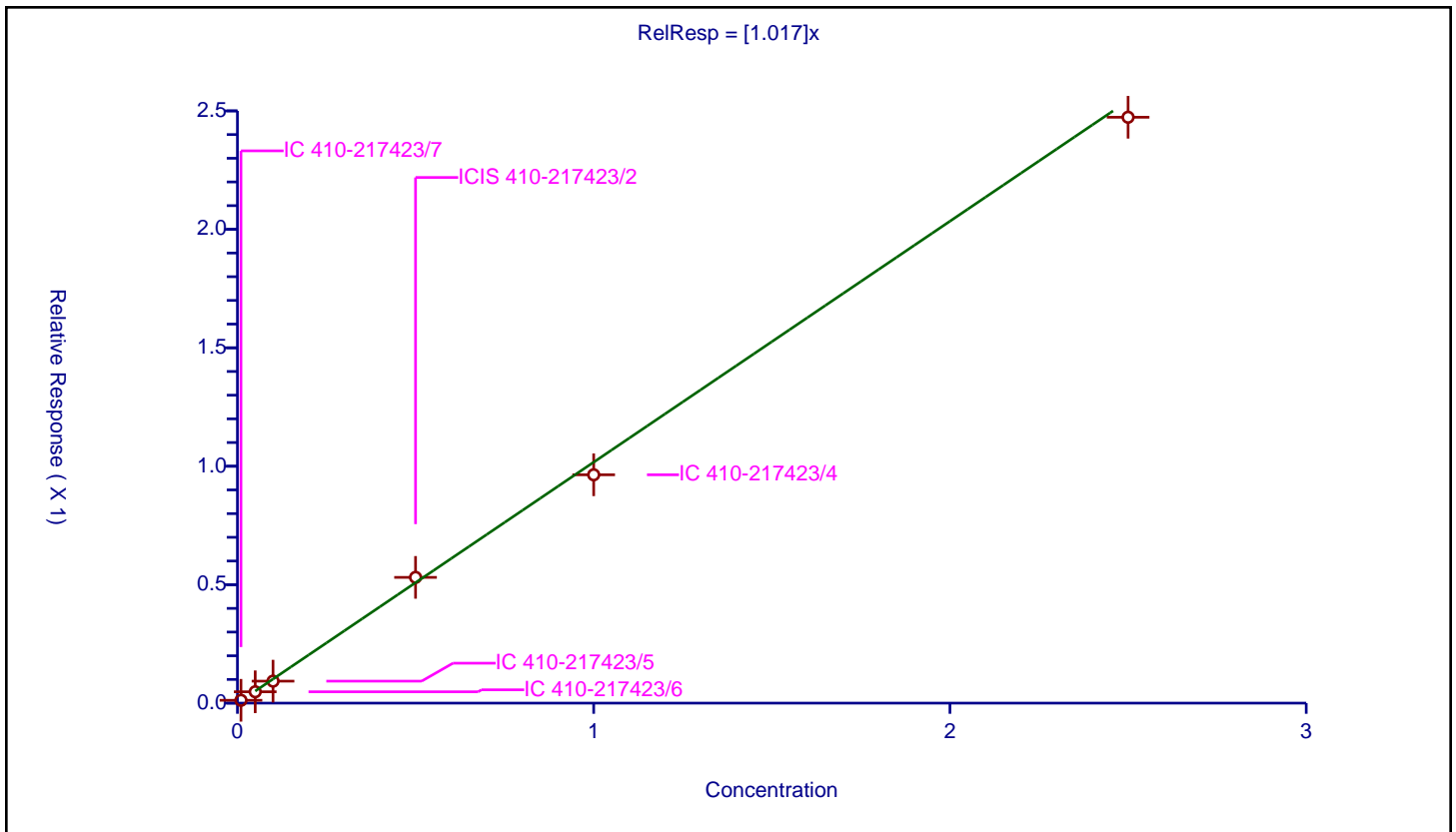
/ Anthracene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.017

Error Coefficients	
Standard Error:	1780000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.012003	0.25	328990.0	1.200264	Y
2	IC 410-217423/6	0.05	0.047989	0.25	357225.0	0.959773	Y
3	IC 410-217423/5	0.1	0.092771	0.25	373071.0	0.927712	Y
4	ICIS 410-217423/2	0.5	0.530873	0.25	345456.0	1.061746	Y
5	IC 410-217423/4	1.0	0.96395	0.25	385885.0	0.96395	Y
6	IC 410-217423/3	2.5	2.473143	0.25	366599.0	0.989257	Y



**Calibration**

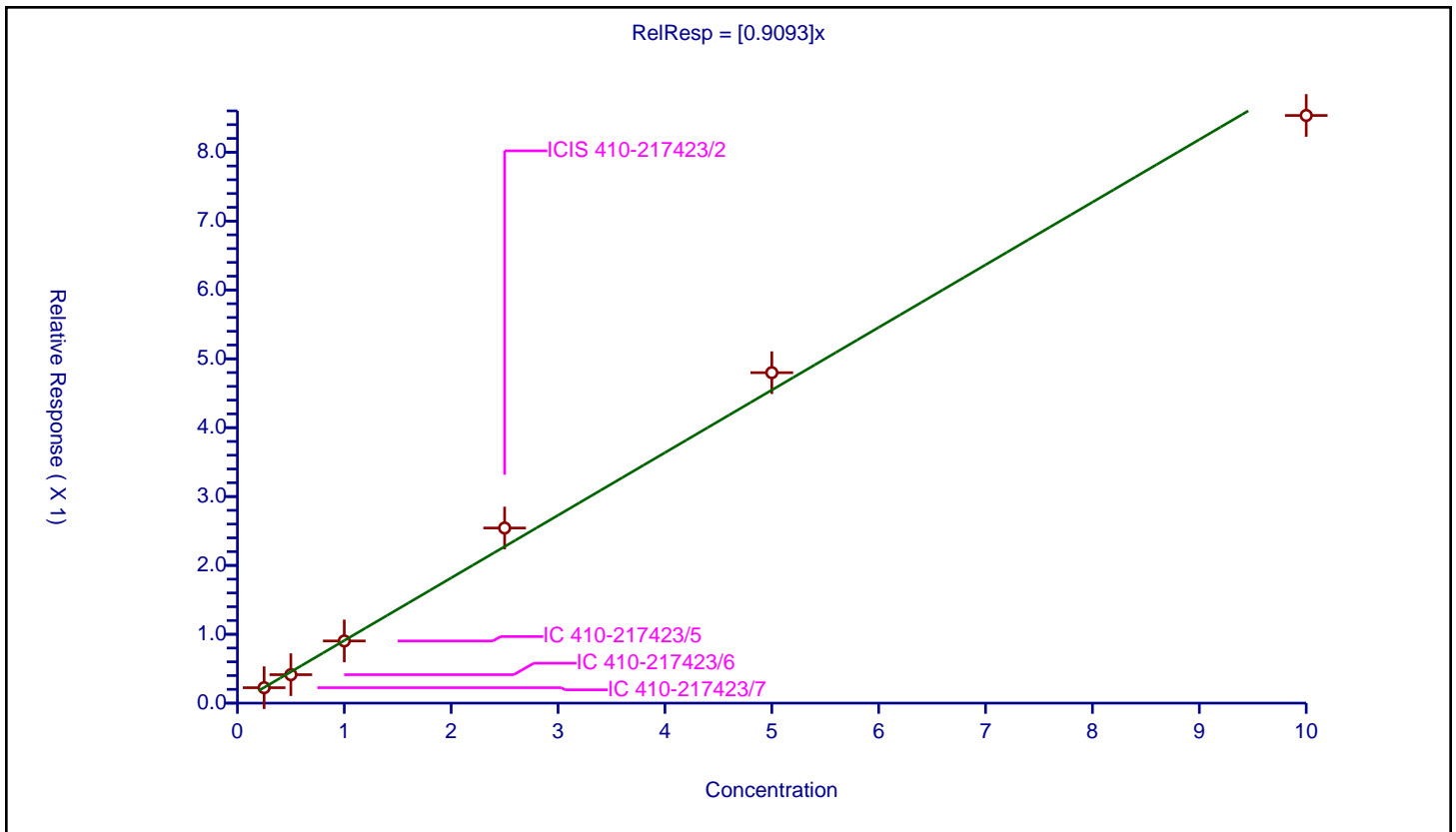
/ Di-n-butyl phthalate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9093

Error Coefficients	
Standard Error:	6720000
Relative Standard Error:	7.7
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.224102	0.25	328990.0	0.896407	Y
2	IC 410-217423/6	0.5	0.413072	0.25	357225.0	0.826145	Y
3	IC 410-217423/5	1.0	0.902821	0.25	373071.0	0.902821	Y
4	ICIS 410-217423/2	2.5	2.543184	0.25	345456.0	1.017274	Y
5	IC 410-217423/4	5.0	4.798755	0.25	385885.0	0.959751	Y
6	IC 410-217423/3	10.0	8.53331	0.25	366599.0	0.853331	Y



**Calibration**

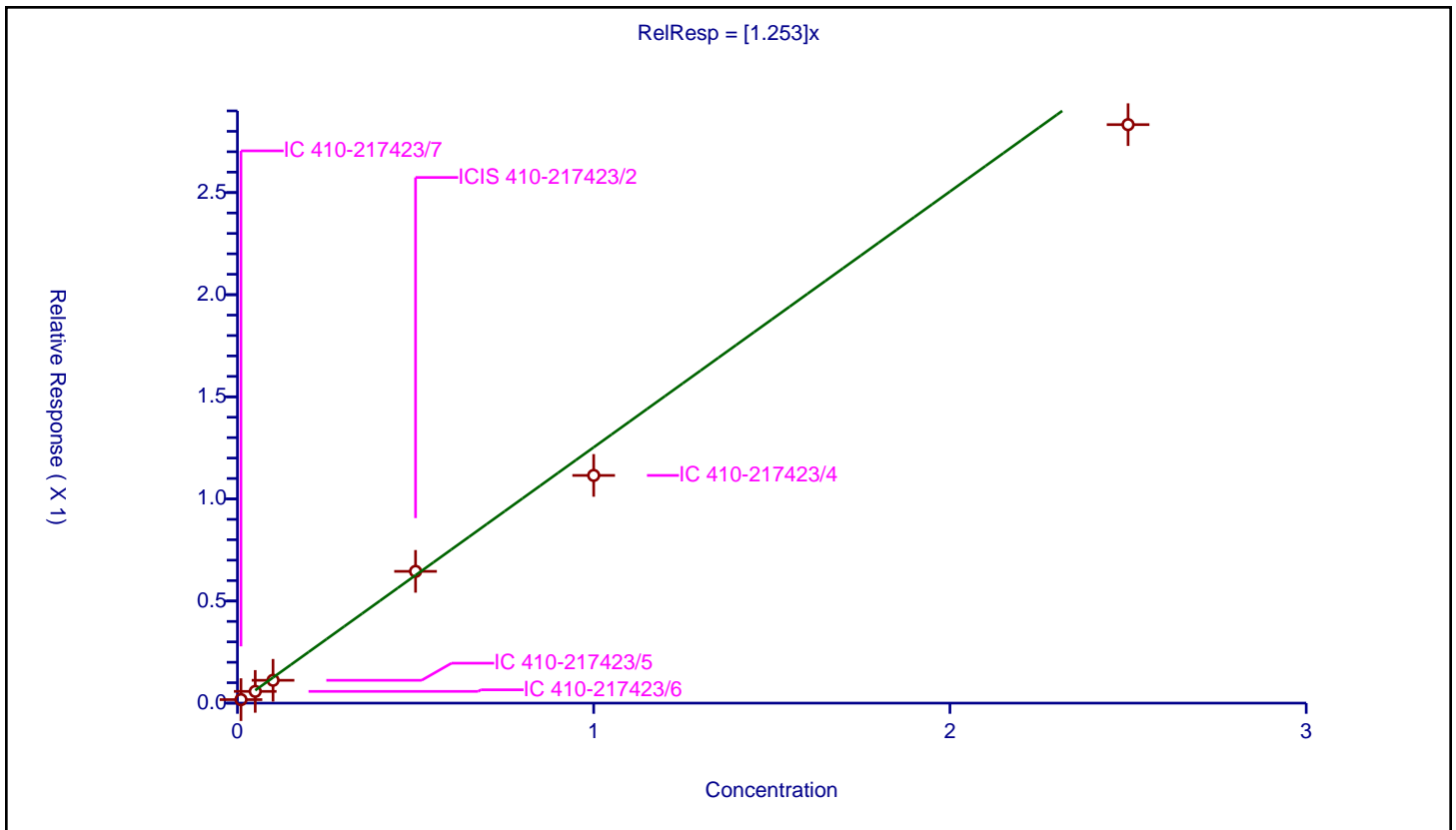
/ Fluoranthene-d10 (Surr)

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.253

Error Coefficients	
Standard Error:	2050000
Relative Standard Error:	18.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.950

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.017111	0.25	328990.0	1.71107	Y
2	IC 410-217423/6	0.05	0.057401	0.25	357225.0	1.14803	Y
3	IC 410-217423/5	0.1	0.111788	0.25	373071.0	1.117877	Y
4	ICIS 410-217423/2	0.5	0.645208	0.25	345456.0	1.290416	Y
5	IC 410-217423/4	1.0	1.114998	0.25	385885.0	1.114998	Y
6	IC 410-217423/3	2.5	2.832674	0.25	366599.0	1.13307	Y





**Calibration**

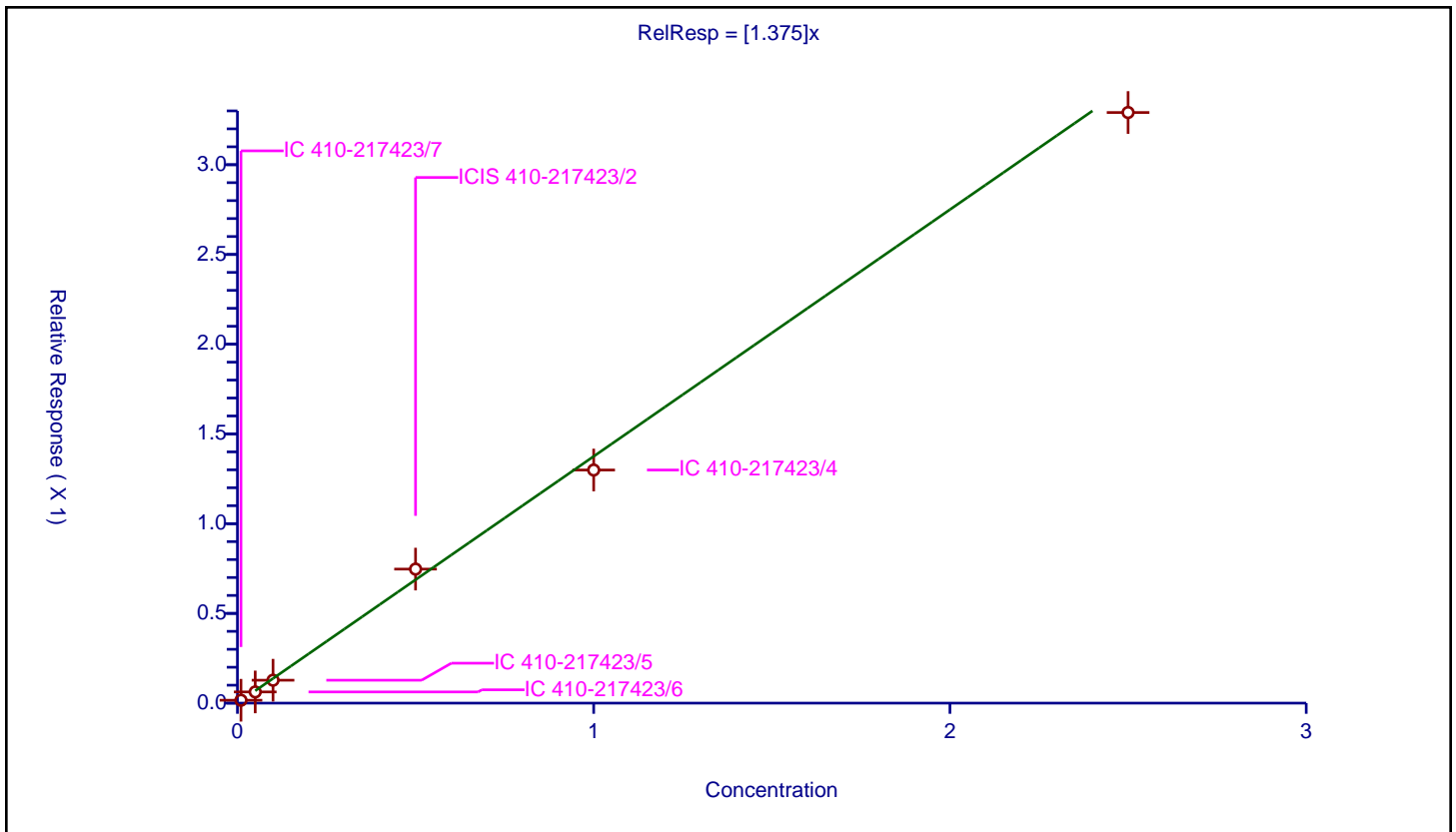
**/ Fluoranthene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.375

Error Coefficients	
Standard Error:	2380000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.016171	0.25	328990.0	1.617146	Y
2	IC 410-217423/6	0.05	0.062335	0.25	357225.0	1.246693	Y
3	IC 410-217423/5	0.1	0.127706	0.25	373071.0	1.277063	Y
4	ICIS 410-217423/2	0.5	0.746825	0.25	345456.0	1.49365	Y
5	IC 410-217423/4	1.0	1.298875	0.25	385885.0	1.298875	Y
6	IC 410-217423/3	2.5	3.290992	0.25	366599.0	1.316397	Y



Calibration

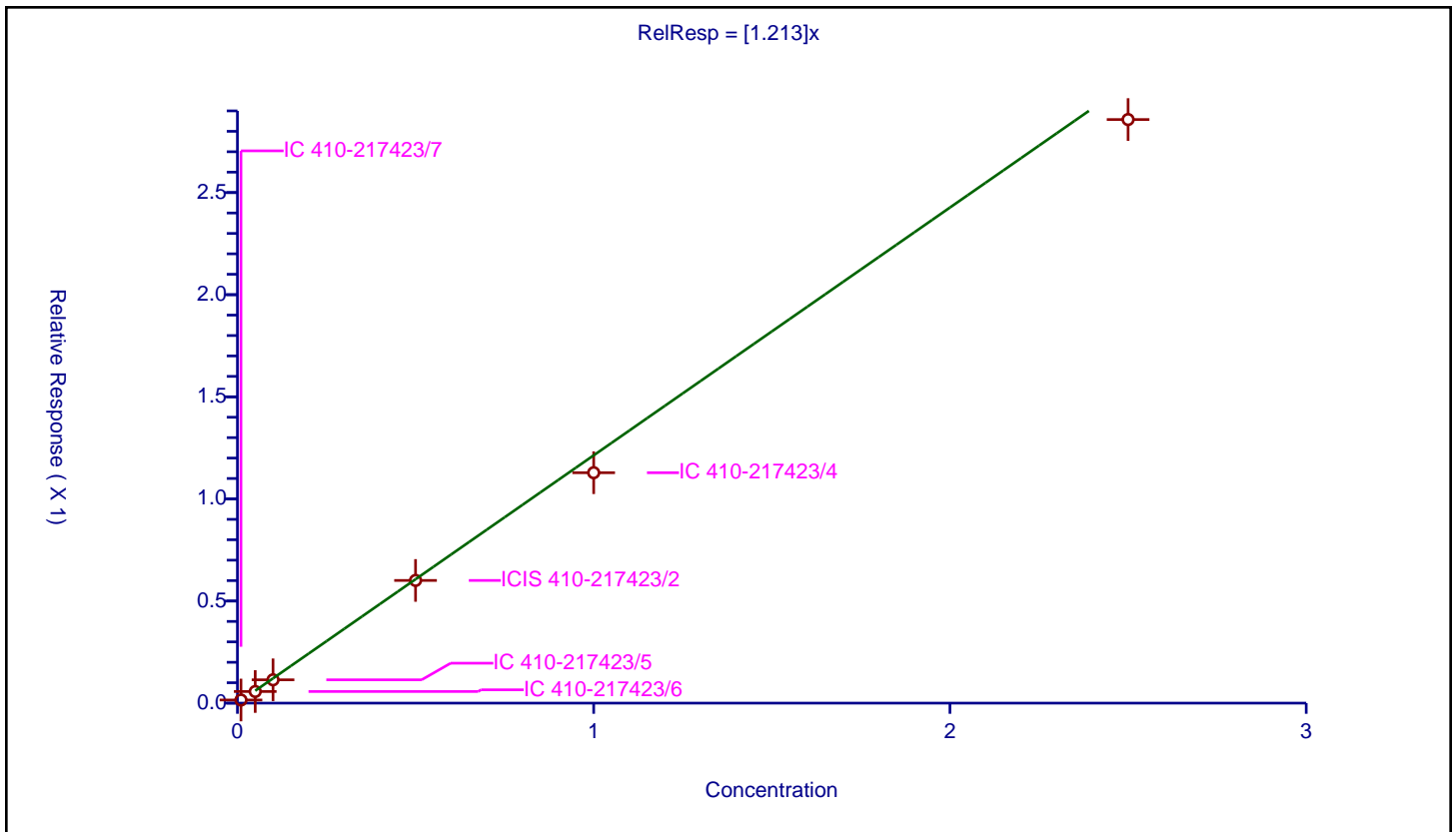
/ Pyrene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.213

Error Coefficients	
Standard Error:	2490000
Relative Standard Error:	12.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.015265	0.25	373997.0	1.526483	Y
2	IC 410-217423/6	0.05	0.056948	0.25	406973.0	1.138958	Y
3	IC 410-217423/5	0.1	0.114164	0.25	431252.0	1.141635	Y
4	ICIS 410-217423/2	0.5	0.600804	0.25	450984.0	1.201608	Y
5	IC 410-217423/4	1.0	1.128311	0.25	462337.0	1.128311	Y
6	IC 410-217423/3	2.5	2.857673	0.25	440077.0	1.143069	Y



**Calibration**

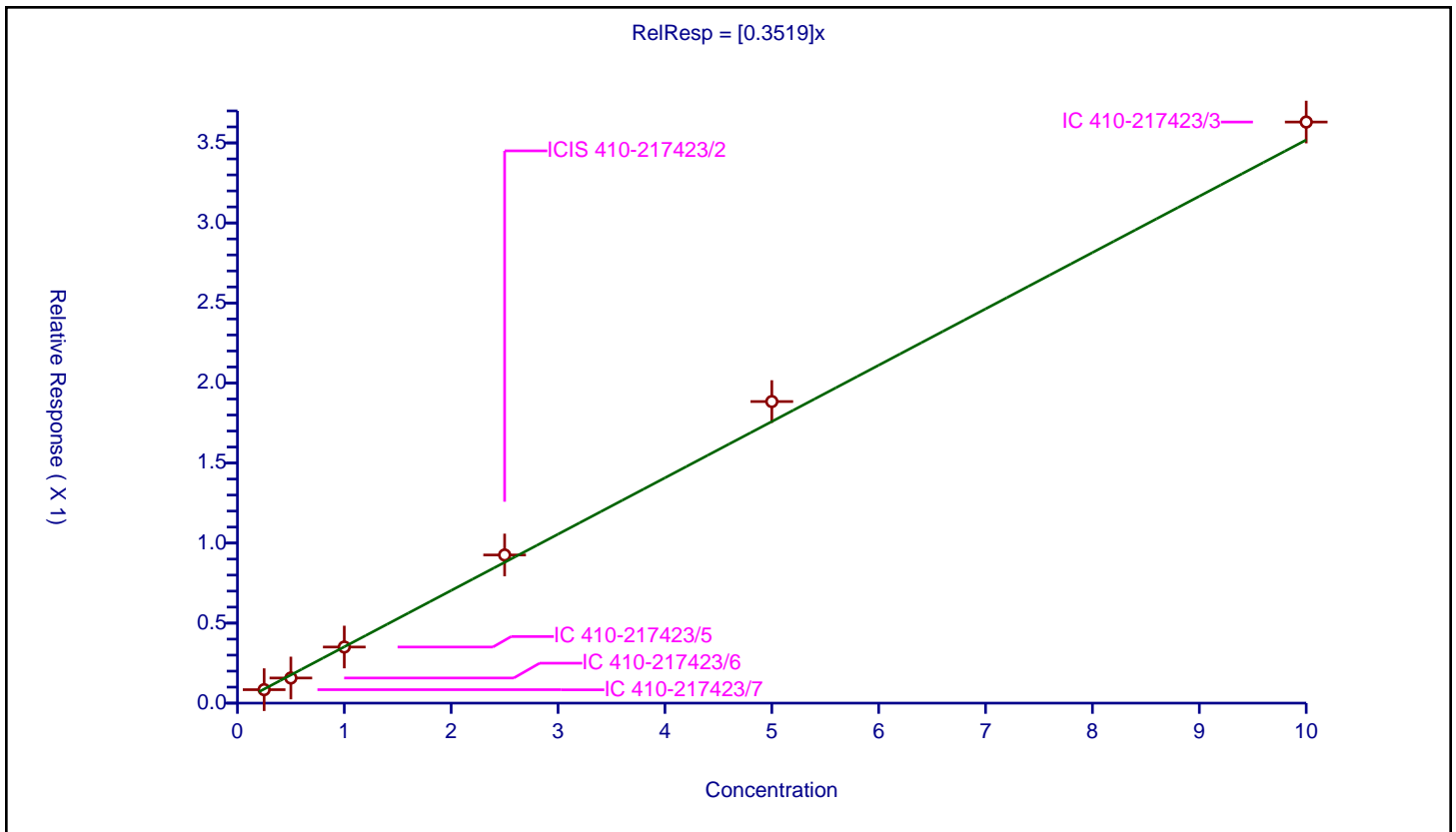
/ Butyl benzyl phthalate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.3519

Error Coefficients	
Standard Error:	3350000
Relative Standard Error:	6.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.084118	0.25	373997.0	0.336471	Y
2	IC 410-217423/6	0.5	0.156978	0.25	406973.0	0.313957	Y
3	IC 410-217423/5	1.0	0.350555	0.25	431252.0	0.350555	Y
4	ICIS 410-217423/2	2.5	0.925628	0.25	450984.0	0.370251	Y
5	IC 410-217423/4	5.0	1.884133	0.25	462337.0	0.376827	Y
6	IC 410-217423/3	10.0	3.630407	0.25	440077.0	0.363041	Y



Calibration

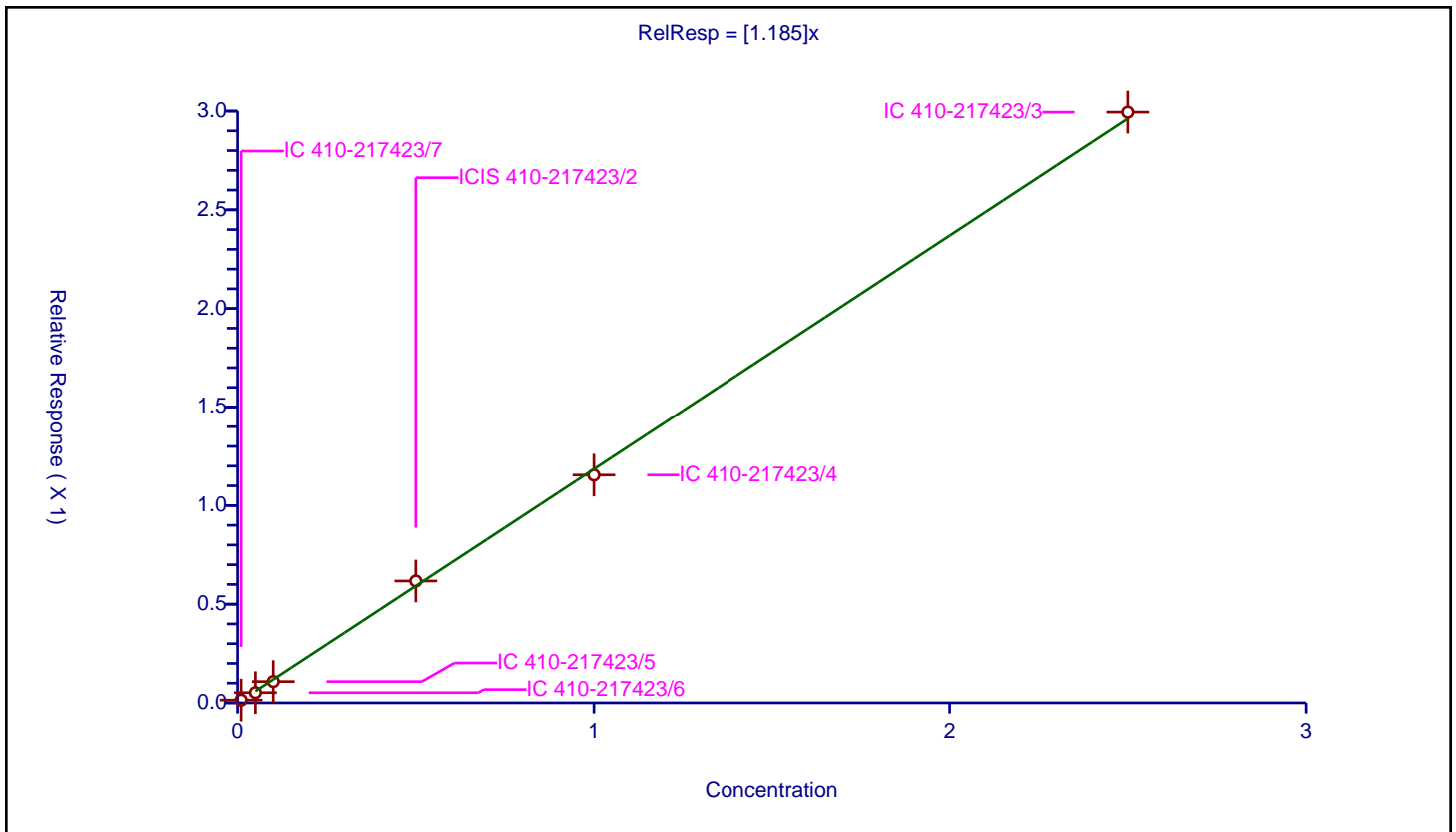
/ Benzo[a]anthracene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.185

Error Coefficients	
Standard Error:	2590000
Relative Standard Error:	11.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.01408	0.25	373997.0	1.408033	Y
2	IC 410-217423/6	0.05	0.051769	0.25	406973.0	1.035376	Y
3	IC 410-217423/5	0.1	0.107845	0.25	431252.0	1.078453	Y
4	ICIS 410-217423/2	0.5	0.617368	0.25	450984.0	1.234736	Y
5	IC 410-217423/4	1.0	1.154597	0.25	462337.0	1.154597	Y
6	IC 410-217423/3	2.5	2.994582	0.25	440077.0	1.197833	Y



Calibration

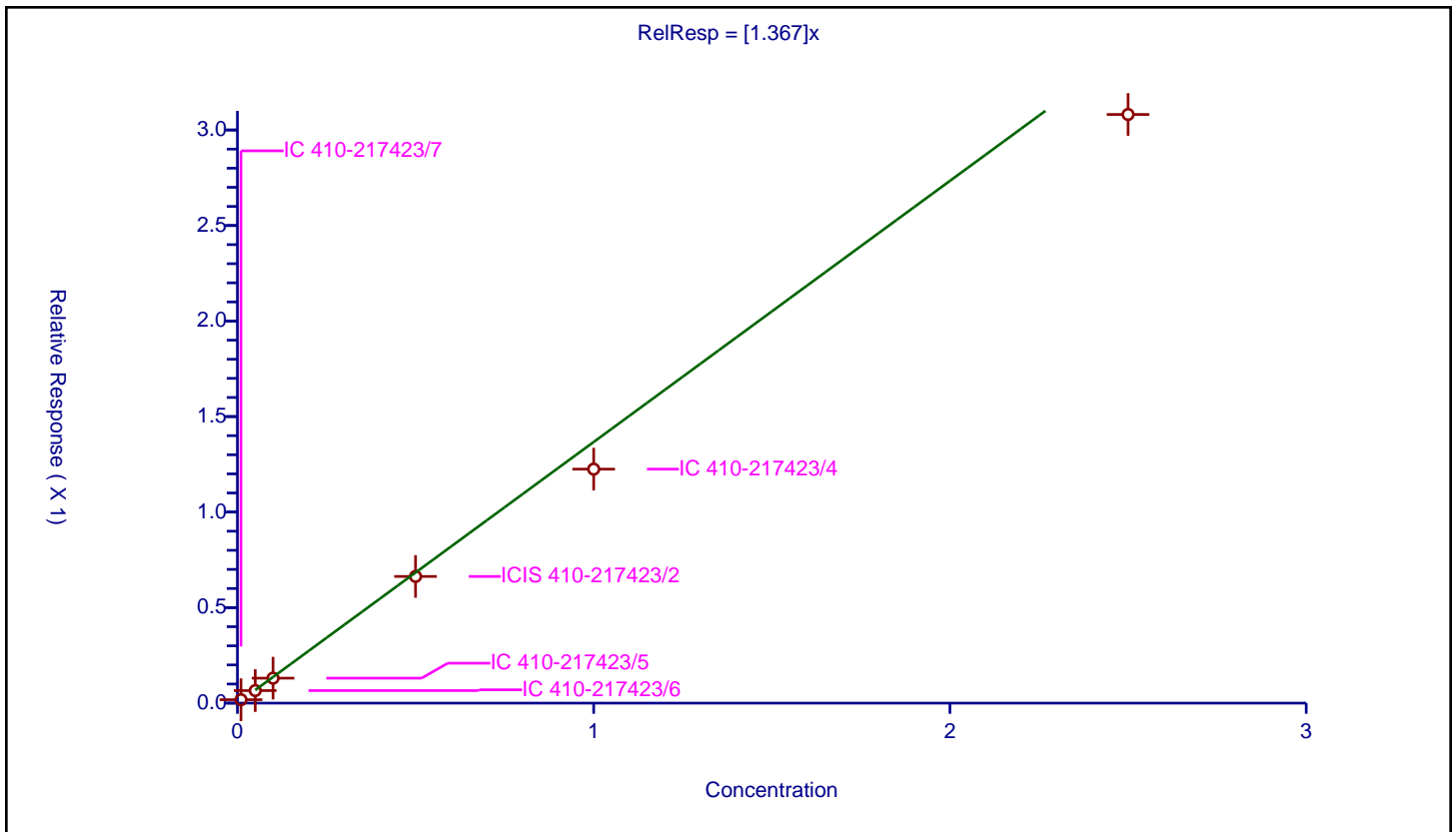
/ Chrysene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.367

Error Coefficients	
Standard Error:	2680000
Relative Standard Error:	15.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.966

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.017949	0.25	373997.0	1.794934	Y
2	IC 410-217423/6	0.05	0.065775	0.25	406973.0	1.315505	Y
3	IC 410-217423/5	0.1	0.130735	0.25	431252.0	1.30735	Y
4	ICIS 410-217423/2	0.5	0.663076	0.25	450984.0	1.326151	Y
5	IC 410-217423/4	1.0	1.22481	0.25	462337.0	1.22481	Y
6	IC 410-217423/3	2.5	3.081199	0.25	440077.0	1.23248	Y



**Calibration**

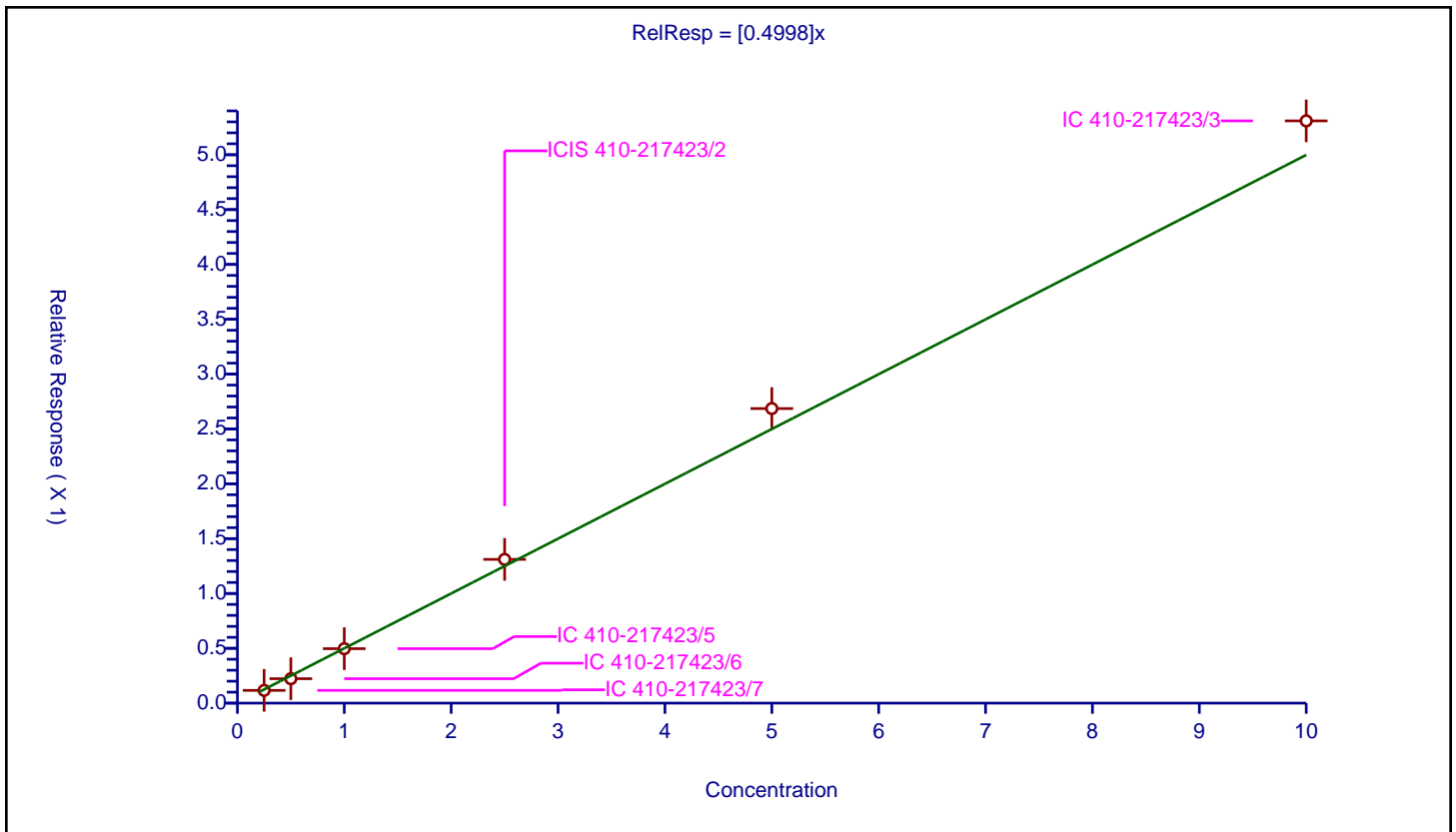
/ Bis(2-ethylhexyl) phthalate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.4998

Error Coefficients	
Standard Error:	4870000
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.116161	0.25	373997.0	0.464645	Y
2	IC 410-217423/6	0.5	0.222717	0.25	406973.0	0.445435	Y
3	IC 410-217423/5	1.0	0.496486	0.25	431252.0	0.496486	Y
4	ICIS 410-217423/2	2.5	1.310773	0.25	450984.0	0.524309	Y
5	IC 410-217423/4	5.0	2.685904	0.25	462337.0	0.537181	Y
6	IC 410-217423/3	10.0	5.308936	0.25	440077.0	0.530894	Y



**Calibration**

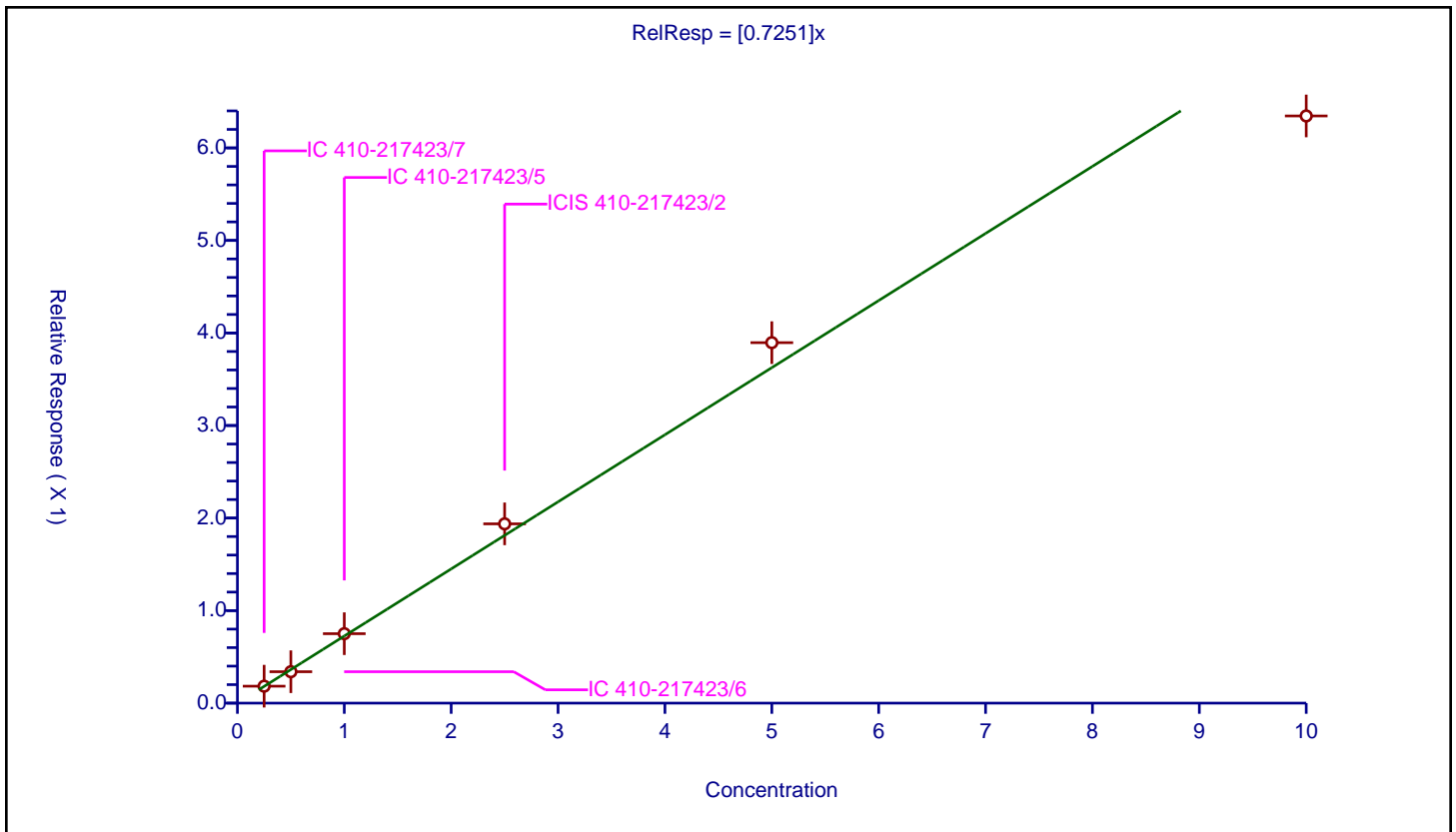
/ Di-n-octyl phthalate

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.7251

Error Coefficients	
Standard Error:	7780000
Relative Standard Error:	7.9
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.25	0.183064	0.25	409775.0	0.732258	Y
2	IC 410-217423/6	0.5	0.339559	0.25	466417.0	0.679118	Y
3	IC 410-217423/5	1.0	0.750476	0.25	496295.0	0.750476	Y
4	ICIS 410-217423/2	2.5	1.937342	0.25	533802.0	0.774937	Y
5	IC 410-217423/4	5.0	3.895445	0.25	558082.0	0.779089	Y
6	IC 410-217423/3	10.0	6.345432	0.25	566756.0	0.634543	Y



**Calibration**

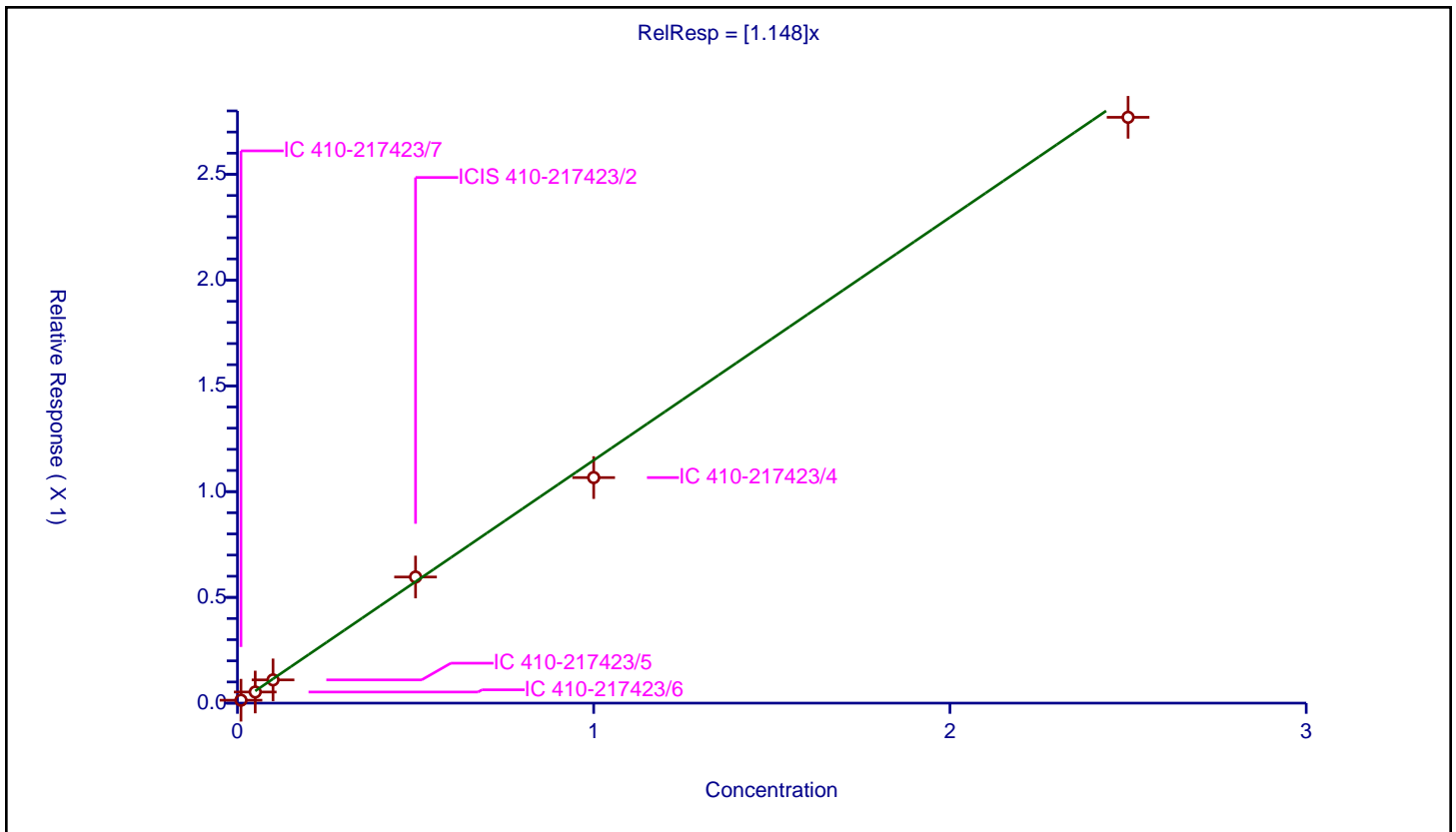
**/ Benzo[b]fluoranthene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.148

Error Coefficients	
Standard Error:	3060000
Relative Standard Error:	10.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.013738	0.25	409775.0	1.373803	Y
2	IC 410-217423/6	0.05	0.052537	0.25	466417.0	1.050744	Y
3	IC 410-217423/5	0.1	0.109816	0.25	496295.0	1.098162	Y
4	ICIS 410-217423/2	0.5	0.596346	0.25	533802.0	1.192692	Y
5	IC 410-217423/4	1.0	1.06633	0.25	558082.0	1.06633	Y
6	IC 410-217423/3	2.5	2.76966	0.25	566756.0	1.107864	Y





Calibration

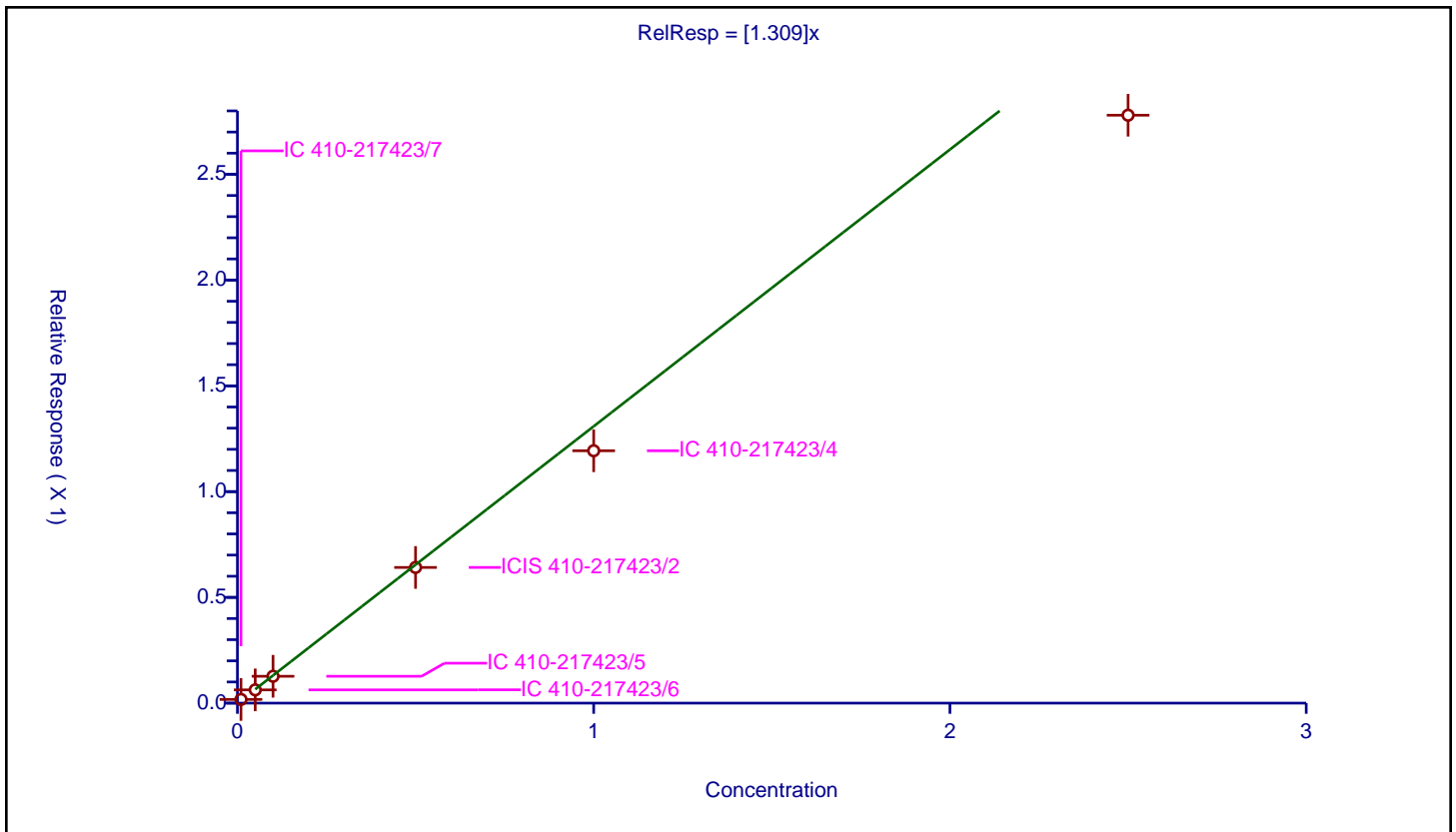
/ Benzo[k]fluoranthene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.309

Error Coefficients	
Standard Error:	3120000
Relative Standard Error:	16.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.960

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.017424	0.25	409775.0	1.74242	Y
2	IC 410-217423/6	0.05	0.062595	0.25	466417.0	1.251905	Y
3	IC 410-217423/5	0.1	0.126975	0.25	496295.0	1.269754	Y
4	ICIS 410-217423/2	0.5	0.641479	0.25	533802.0	1.282958	Y
5	IC 410-217423/4	1.0	1.193179	0.25	558082.0	1.193179	Y
6	IC 410-217423/3	2.5	2.779555	0.25	566756.0	1.111822	Y



Calibration

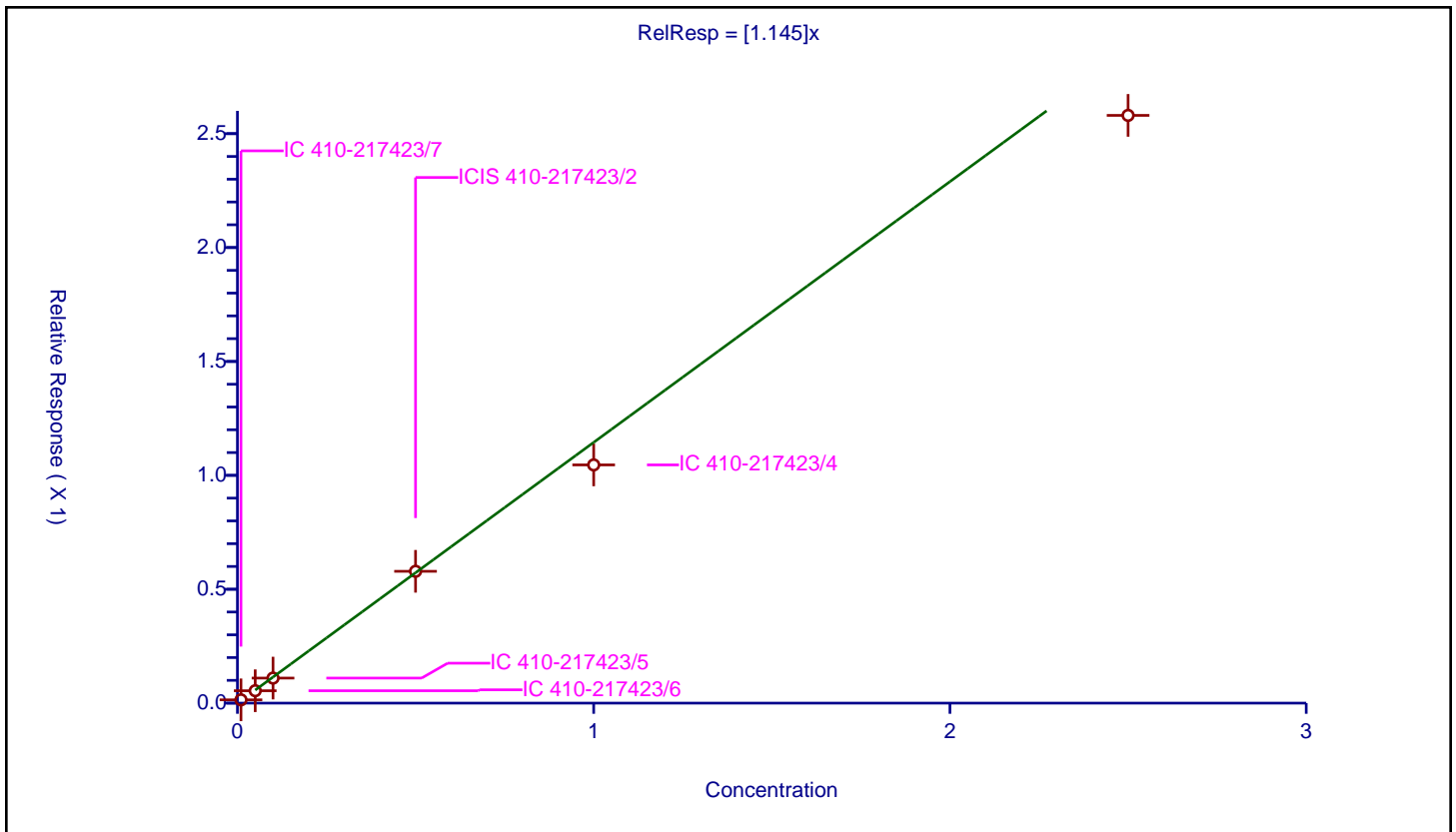
/ Benzo[e]pyrene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.145

Error Coefficients	
Standard Error:	2870000
Relative Standard Error:	13.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.014452	0.25	409775.0	1.445183	Y
2	IC 410-217423/6	0.05	0.054404	0.25	466417.0	1.088082	Y
3	IC 410-217423/5	0.1	0.109971	0.25	496295.0	1.099709	Y
4	ICIS 410-217423/2	0.5	0.578736	0.25	533802.0	1.157472	Y
5	IC 410-217423/4	1.0	1.045858	0.25	558082.0	1.045858	Y
6	IC 410-217423/3	2.5	2.580266	0.25	566756.0	1.032107	Y



**Calibration**

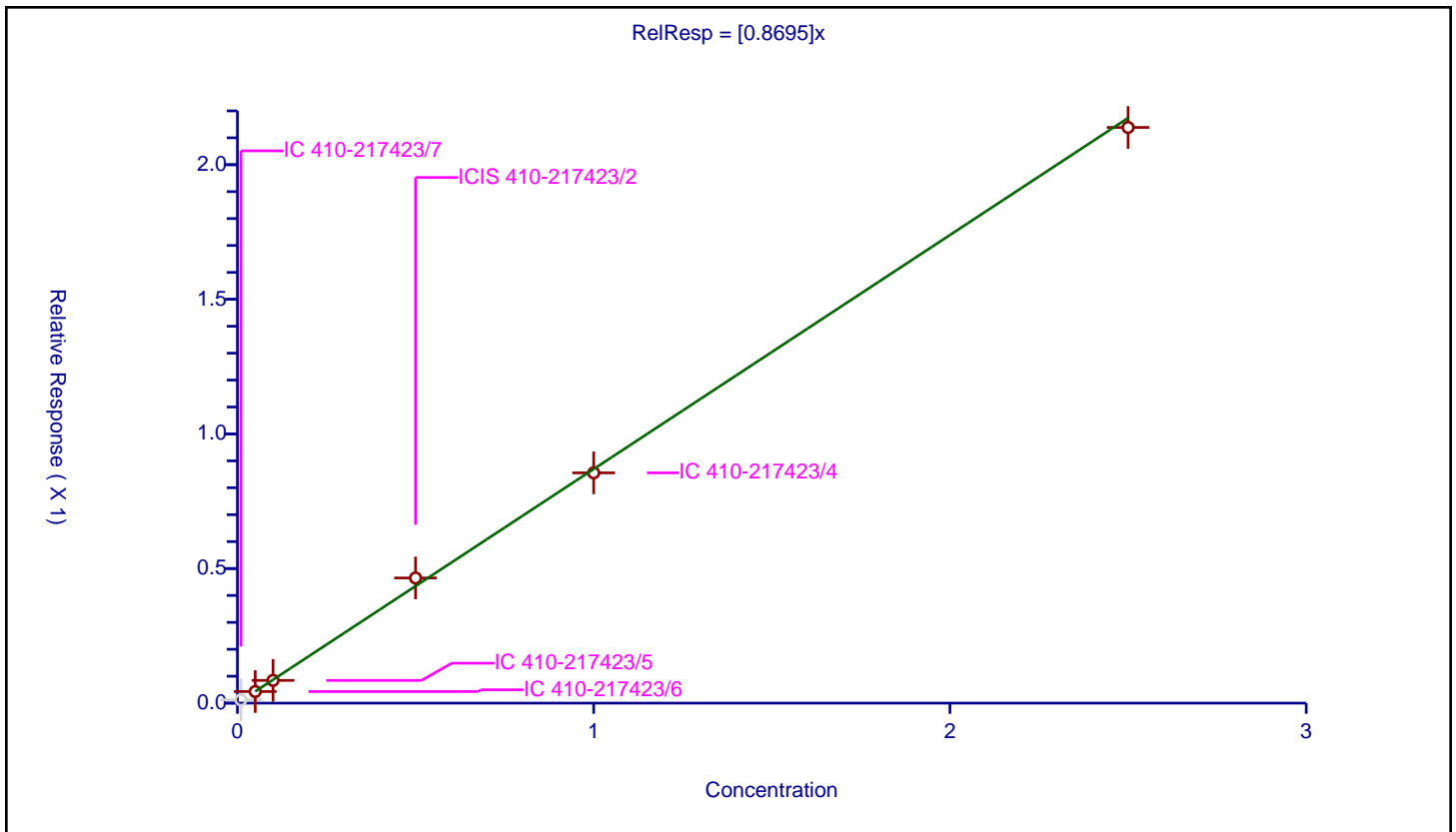
**/ Benzo(a)pyrene-d12 (Surr)**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ISTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	0.8695

Error Coefficients	
<b>Standard Error:</b>	2650000
<b>Relative Standard Error:</b>	4.0
<b>Correlation Coefficient:</b>	1.000
<b>Coefficient of Determination (Adjusted):</b>	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.012325	0.25	409775.0	1.232506	N
2	IC 410-217423/6	0.05	0.043126	0.25	466417.0	0.862522	Y
3	IC 410-217423/5	0.1	0.084393	0.25	496295.0	0.843934	Y
4	ICIS 410-217423/2	0.5	0.464977	0.25	533802.0	0.929953	Y
5	IC 410-217423/4	1.0	0.855467	0.25	558082.0	0.855467	Y
6	IC 410-217423/3	2.5	2.138444	0.25	566756.0	0.855378	Y



**Calibration**

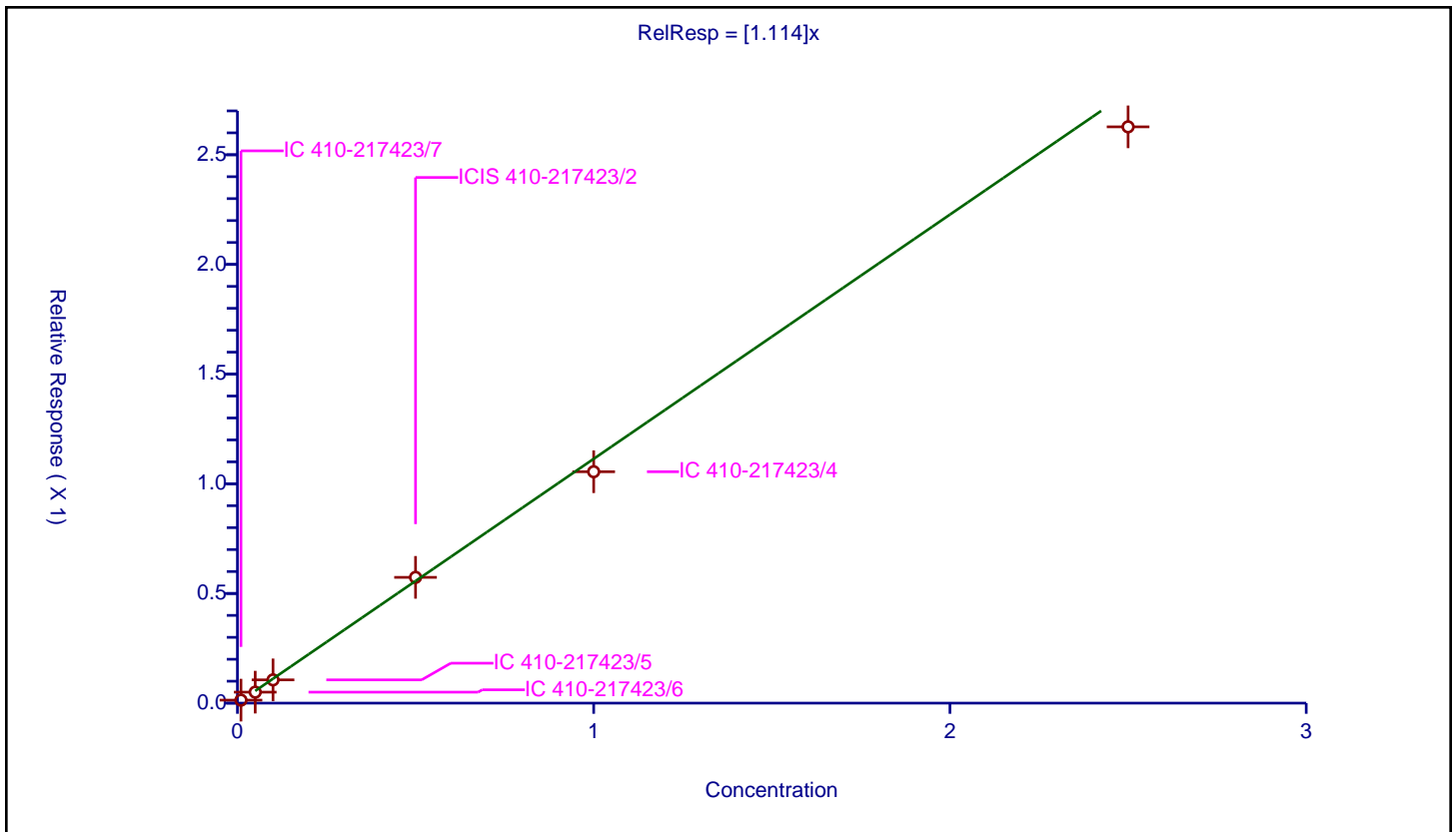
**/ Benzo[a]pyrene**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.114

Error Coefficients	
Standard Error:	2920000
Relative Standard Error:	11.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.013667	0.25	409775.0	1.366726	Y
2	IC 410-217423/6	0.05	0.050101	0.25	466417.0	1.002022	Y
3	IC 410-217423/5	0.1	0.106022	0.25	496295.0	1.060221	Y
4	ICIS 410-217423/2	0.5	0.573457	0.25	533802.0	1.146914	Y
5	IC 410-217423/4	1.0	1.055013	0.25	558082.0	1.055013	Y
6	IC 410-217423/3	2.5	2.627261	0.25	566756.0	1.050904	Y



Calibration

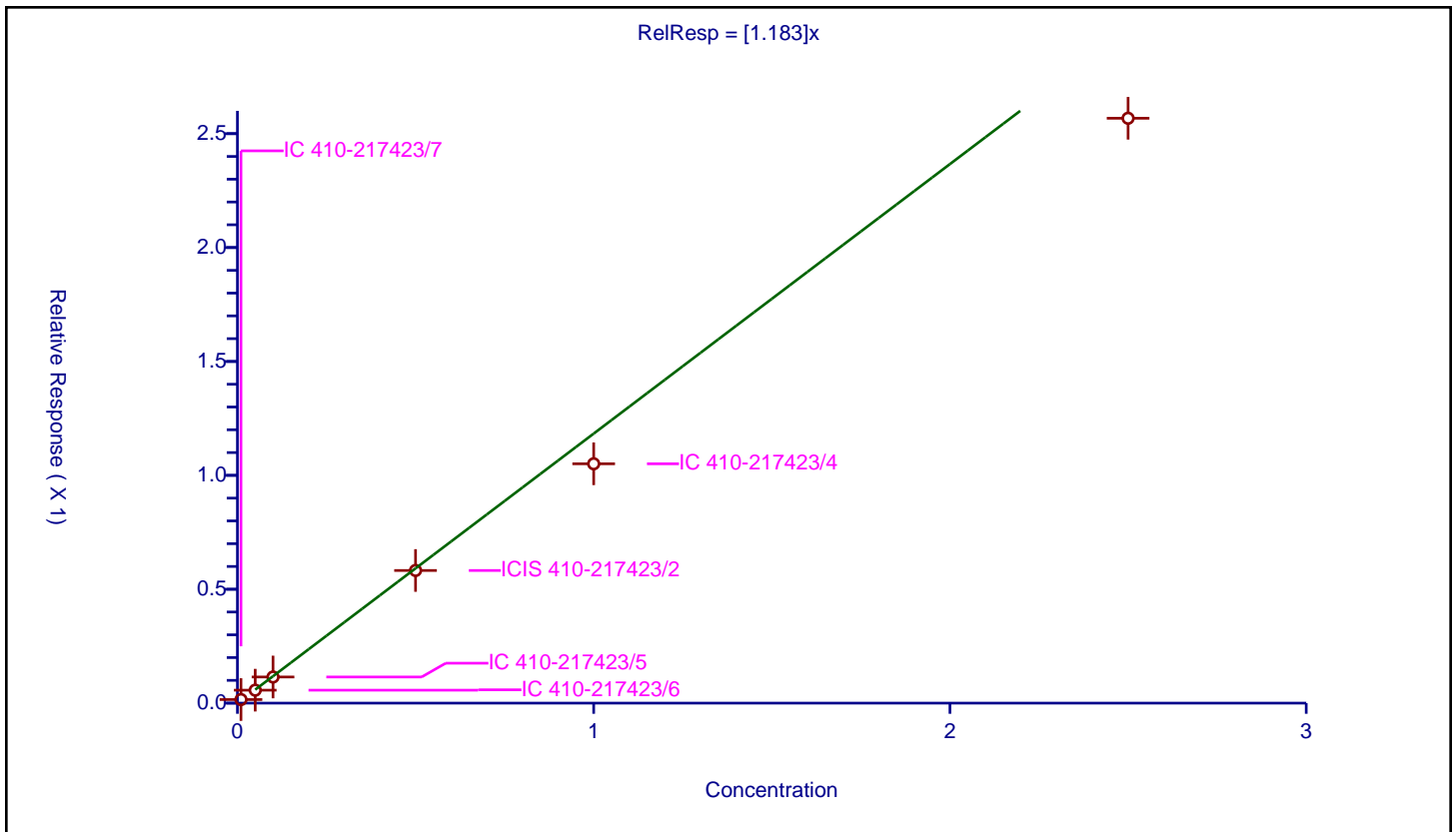
/ Perylene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.183

Error Coefficients	
Standard Error:	2860000
Relative Standard Error:	16.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.961

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.015709	0.25	409775.0	1.570862	Y
2	IC 410-217423/6	0.05	0.056933	0.25	466417.0	1.138659	Y
3	IC 410-217423/5	0.1	0.114755	0.25	496295.0	1.147548	Y
4	ICIS 410-217423/2	0.5	0.582371	0.25	533802.0	1.164742	Y
5	IC 410-217423/4	1.0	1.050696	0.25	558082.0	1.050696	Y
6	IC 410-217423/3	2.5	2.567661	0.25	566756.0	1.027065	Y



Calibration

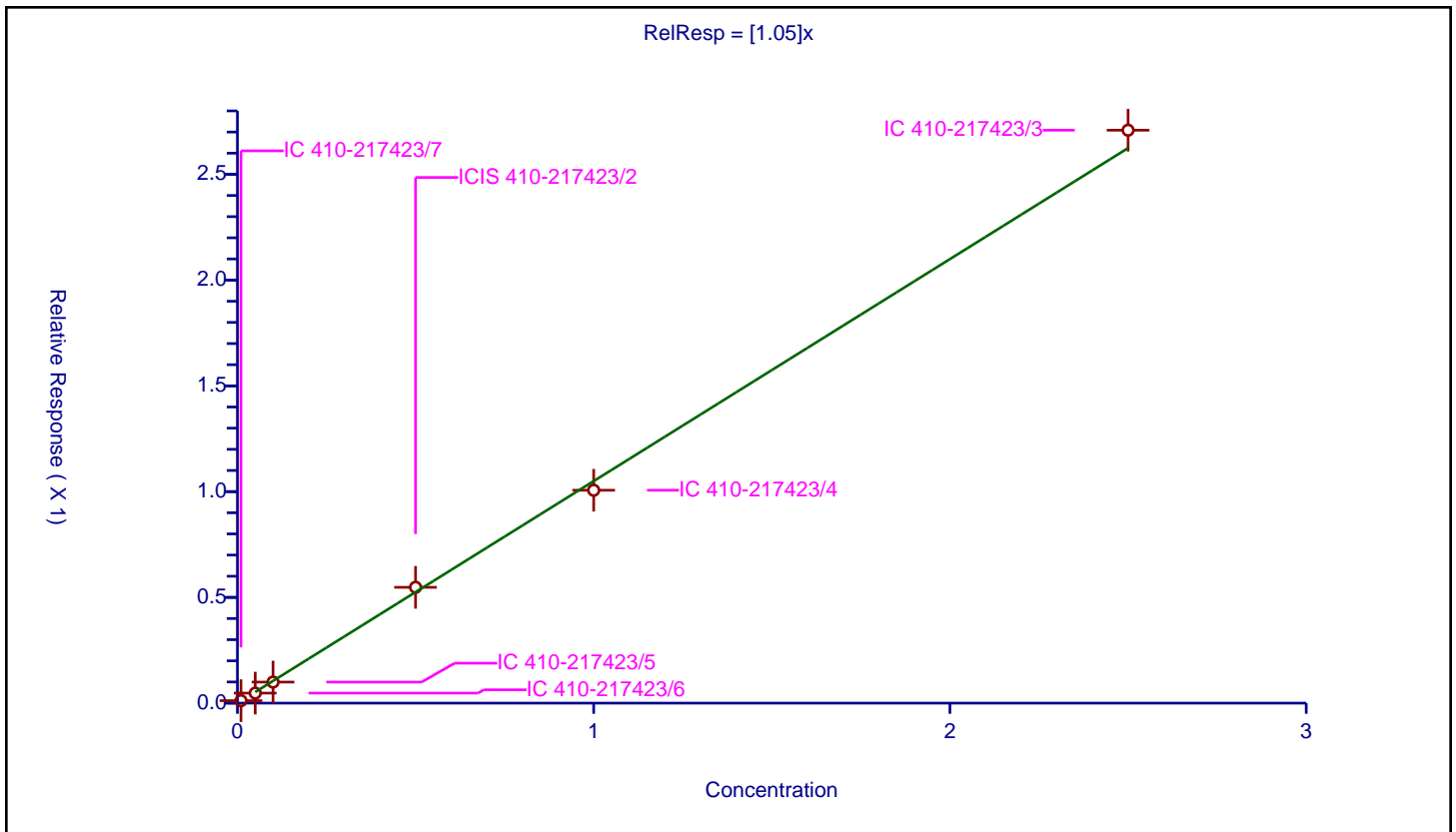
/ Indeno[1,2,3-cd]pyrene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.05

Error Coefficients	
Standard Error:	2970000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.011694	0.25	409775.0	1.169422	Y
2	IC 410-217423/6	0.05	0.047403	0.25	466417.0	0.948057	Y
3	IC 410-217423/5	0.1	0.099545	0.25	496295.0	0.995451	Y
4	ICIS 410-217423/2	0.5	0.54751	0.25	533802.0	1.095019	Y
5	IC 410-217423/4	1.0	1.006551	0.25	558082.0	1.006551	Y
6	IC 410-217423/3	2.5	2.708689	0.25	566756.0	1.083476	Y



**Calibration**

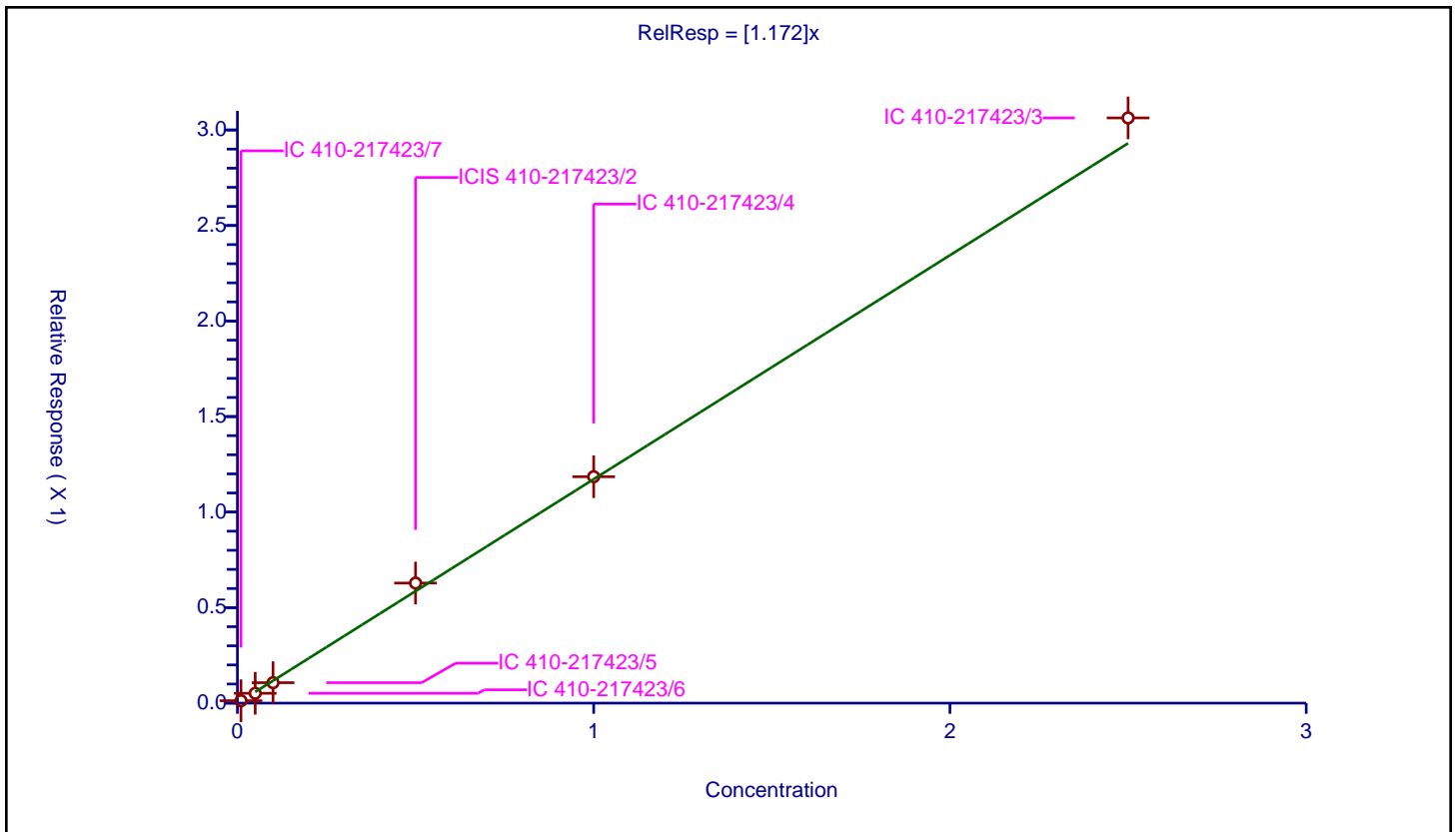
/ Dibenz(a,h)anthracene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.172

Error Coefficients	
Standard Error:	3380000
Relative Standard Error:	8.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.012659	0.25	409775.0	1.265878	Y
2	IC 410-217423/6	0.05	0.051498	0.25	466417.0	1.029958	Y
3	IC 410-217423/5	0.1	0.106955	0.25	496295.0	1.06955	Y
4	ICIS 410-217423/2	0.5	0.628574	0.25	533802.0	1.257148	Y
5	IC 410-217423/4	1.0	1.185242	0.25	558082.0	1.185242	Y
6	IC 410-217423/3	2.5	3.063194	0.25	566756.0	1.225278	Y



Calibration

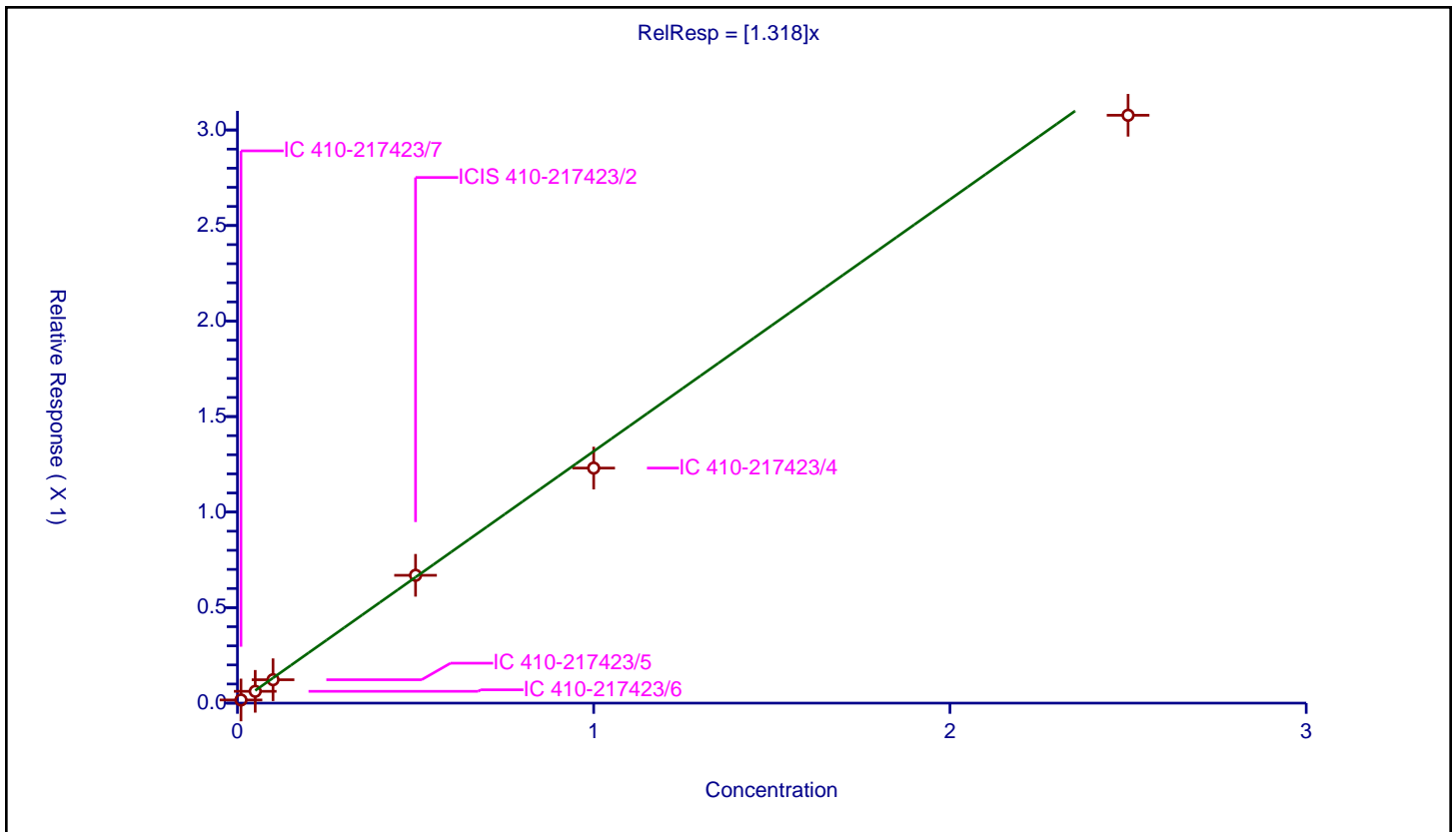
/ Benzo[g,h,i]perylene

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ISTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.318

Error Coefficients	
Standard Error:	3420000
Relative Standard Error:	12.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 410-217423/7	0.01	0.016496	0.25	409775.0	1.649625	Y
2	IC 410-217423/6	0.05	0.061768	0.25	466417.0	1.235354	Y
3	IC 410-217423/5	0.1	0.122481	0.25	496295.0	1.224806	Y
4	ICIS 410-217423/2	0.5	0.669033	0.25	533802.0	1.338065	Y
5	IC 410-217423/4	1.0	1.230361	0.25	558082.0	1.230361	Y
6	IC 410-217423/3	2.5	3.077196	0.25	566756.0	1.230878	Y





FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-70640-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 410-217423/9 Calibration Date: 01/25/2022 09:28

Instrument ID: HP21585 Calib Start Date: 01/25/2022 05:48

GC Column: DB-5MS 30m 0.25 ID: 0.25 (mm) Calib End Date: 01/25/2022 08:29

Lab File ID: MA0858.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7416	0.7182		0.484	0.500	-3.2	30.0
N-Nitrosodimethylamine	Ave	0.7491	0.9603		0.641	0.500	28.2	30.0
Bis(2-chloroethyl)ether	Ave	0.3562	0.4248		0.596	0.500	19.3	30.0
Naphthalene	Ave	1.103	1.098		0.498	0.500	-0.5	30.0
2-Methylnaphthalene	Ave	0.7568	0.7627		0.504	0.500	0.8	30.0
1-Methylnaphthalene	Ave	0.7334	0.7021		0.479	0.500	-4.3	30.0
Dimethyl phthalate	Ave	1.246	1.253		0.503	0.500	0.6	30.0
Acenaphthylene	Ave	1.651	1.710		0.518	0.500	3.6	30.0
Acenaphthene	Ave	1.133	1.041		0.460	0.500	-8.1	30.0
Dibenzofuran	Ave	1.731	1.728		0.499	0.500	-0.2	30.0
Diethyl phthalate	Ave	1.143	1.111		0.486	0.500	-2.8	30.0
Fluorene	Ave	1.394	1.375		0.493	0.500	-1.3	30.0
N-Nitrosodiphenylamine	Lin2		0.6114		0.612	0.425	43.9*	30.0
Hexachlorobenzene	Ave	0.2580	0.2634		0.511	0.500	2.1	30.0
Phenanthrene	Ave	1.096	1.057		0.482	0.500	-3.5	30.0
Anthracene	Ave	1.017	1.026		0.504	0.500	0.9	30.0
Di-n-butyl phthalate	Ave	0.9093	0.8508		0.468	0.500	-6.4	30.0
Fluoranthene	Ave	1.375	1.289		0.469	0.500	-6.2	30.0
Pyrene	Ave	1.213	1.155		0.476	0.500	-4.8	30.0
Butyl benzyl phthalate	Ave	0.3519	0.3135		0.445	0.500	-10.9	30.0
Benzo[a]anthracene	Ave	1.185	1.170		0.494	0.500	-1.3	30.0
Chrysene	Ave	1.367	1.284		0.470	0.500	-6.1	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.4998	0.4342		0.434	0.500	-13.1	30.0
Di-n-octyl phthalate	Ave	0.7251	0.6818		0.470	0.500	-6.0	30.0
Benzo[b]fluoranthene	Ave	1.148	1.194		0.520	0.500	4.0	30.0
Benzo[k]fluoranthene	Ave	1.309	1.356		0.518	0.500	3.6	30.0
Benzo[a]pyrene	Ave	1.114	1.117		0.502	0.500	0.3	30.0
Indeno[1,2,3-cd]pyrene	Ave	1.050	1.172		0.558	0.500	11.6	30.0
Dibenz(a,h)anthracene	Ave	1.172	1.289		0.550	0.500	10.0	30.0
Benzo[g,h,i]perylene	Ave	1.318	1.378		0.523	0.500	4.5	30.0

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0858.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 25-Jan-2022 09:28:30 ALS Bottle#: 0 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: 410-0048994-009  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist:  
 Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:51:27 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
 Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: transuea

Date: 25-Jan-2022 13:05:58

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.065	3.087	-0.030	97	110088	0.5000	0.4842	
2 N-Nitrosodimethylamine	74	3.518	3.607	-0.089	93	147192	0.5000	0.6409	
3 Bis(2-chloroethyl)ether	93	6.643	6.664	-0.021	89	218169	0.5000	0.5963	
* 4 1,4-Dichlorobenzene-d4	152	6.993	6.994	-0.001	95	76642	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.910	8.931	-0.021	95	256774	0.2500	0.2500	
6 Naphthalene	128	8.951	8.951	-0.001	93	563853	0.5000	0.4976	
8 2-Methylnaphthalene	142	10.044	10.056	-0.012	97	391674	0.5000	0.5039	
10 1-Methylnaphthalene	142	10.203	10.203	0.000	96	360584	0.5000	0.4787	
11 Dimethyl phthalate	163	11.340	11.340	0.000	82	443397	0.5000	0.5029	
12 Acenaphthylene	152	11.486	11.486	0.000	99	604806	0.5000	0.5179	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	96	176881	0.2500	0.2500	
14 Acenaphthene	154	11.743	11.743	0.000	93	368337	0.5000	0.4596	
15 Dibenzofuran	168	11.981	11.997	-0.016	100	611260	0.5000	0.4990	
16 Diethyl phthalate	149	12.325	12.332	-0.007	99	392876	0.5000	0.4860	
17 Fluorene	166	12.426	12.426	0.000	96	486367	0.5000	0.4933	
18 N-Nitrosodiphenylamine	169	12.590	12.598	-0.008	98	374580	0.4250	0.6118	
19 Hexachlorobenzene	284	13.082	13.090	-0.008	90	189847	0.5000	0.5105	
* 20 Phenanthrene-d10	188	13.581	13.589	-0.008	98	360391	0.2500	0.2500	
21 Phenanthrene	178	13.612	13.612	-0.001	100	761805	0.5000	0.4823	
22 Anthracene	178	13.683	13.691	-0.008	100	739528	0.5000	0.5044	
23 Di-n-butyl phthalate	149	14.398	14.398	0.000	100	613229	0.5000	0.4678	
25 Fluoranthene	202	15.275	15.282	-0.007	99	929233	0.5000	0.4688	
26 Pyrene	202	15.620	15.633	-0.006	97	972652	0.5000	0.4759	
27 Butyl benzyl phthalate	149	16.745	16.752	0.000	100	264023	0.5000	0.4455	
28 Benzo[a]anthracene	228	17.635	17.642	0.000	100	985155	0.5000	0.4936	
* 29 Chrysene-d12	240	17.650	17.650	0.000	87	421094	0.2500	0.2500	
30 Chrysene	228	17.696	17.711	-0.008	100	1081450	0.5000	0.4697	
31 Bis(2-ethylhexyl) phthalate	149	17.796	17.803	0.000	97	365700	0.5000	0.4344	
32 Di-n-octyl phthalate	149	18.961	18.961	-0.001	100	635721	0.5000	0.4702	
33 Benzo[b]fluoranthene	252	19.498	19.506	-0.008	100	1112997	0.5000	0.5198	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Benzo[k]fluoranthene	252	19.544	19.552	-0.008	100	1264603	0.5000	0.5182	
37 Benzo[a]pyrene	252	20.028	20.035	-0.007	100	1041708	0.5000	0.5016	
* 38 Perylene-d12	264	20.127	20.127	0.000	98	466196	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.784	21.805	-0.021	98	1092575	0.5000	0.5582	M
41 Dibenz(a,h)anthracene	278	21.826	21.847	-0.021	96	1201798	0.5000	0.5498	
42 Benzo[g,h,i]perylene	276	22.222	22.243	-0.021	94	1284517	0.5000	0.5226	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

MSS\_RVSIM\_ICV\_00029

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0858.D

Injection Date: 25-Jan-2022 09:28:30

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: ICV

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

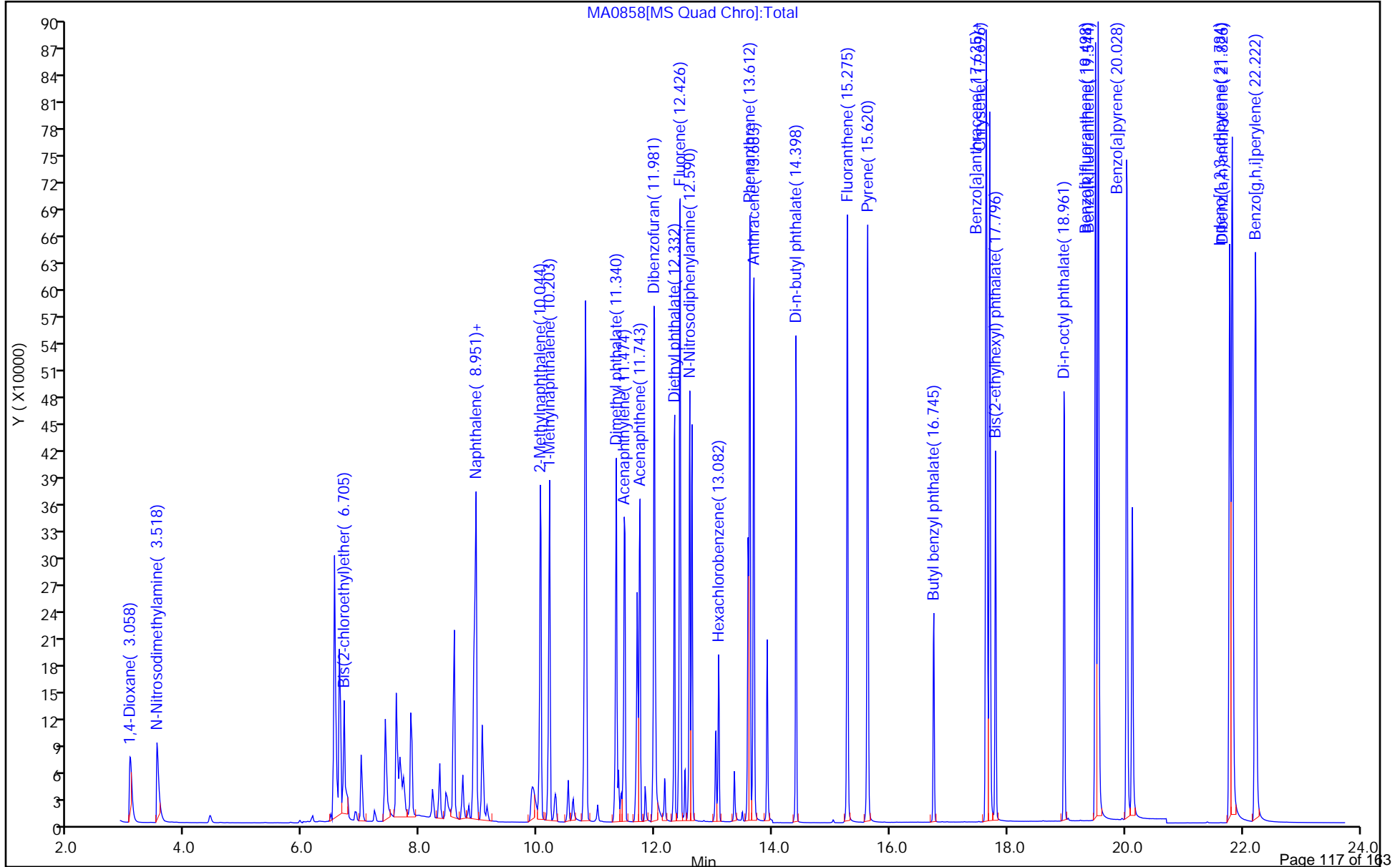
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Euofins Lancaster Laboratories Env, LLC

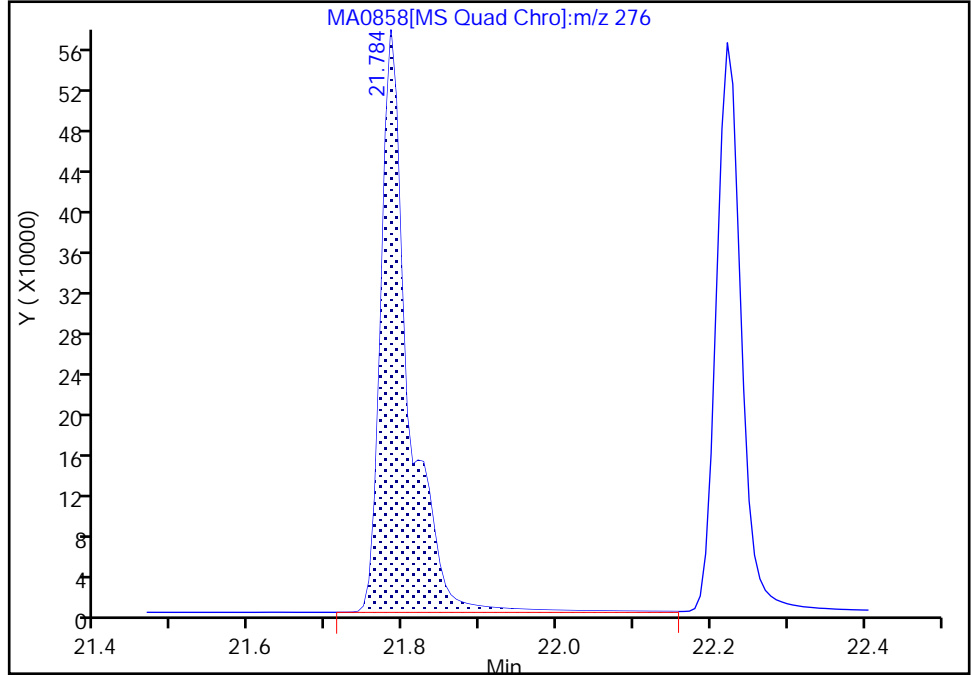
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Injection Date: 25-Jan-2022 09:28:30 Instrument ID: HP21585  
Lims ID: ICV  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

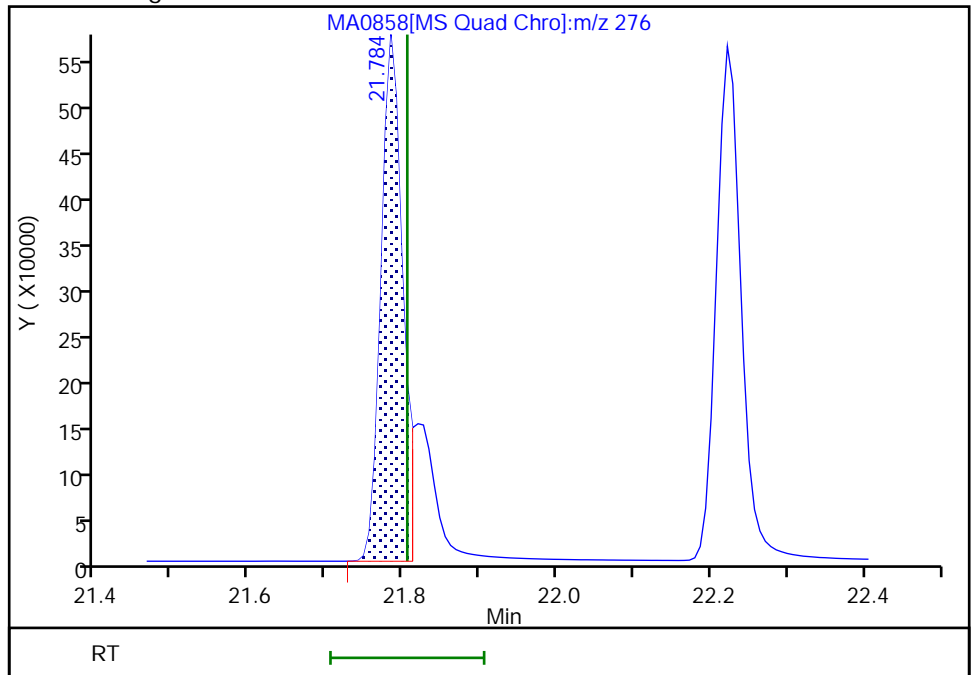
RT: 21.78  
Area: 1429202  
Amount: 0.730155  
Amount Units: ug/ml

Processing Integration Results



RT: 21.78  
Area: 1092575  
Amount: 0.558178  
Amount Units: ug/ml

Manual Integration Results



Reviewer: transuea, 25-Jan-2022 13:05:53  
Audit Action: Manually Integrated

Audit Reason: Split Peak  
Page 106 of 151

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 410-217423/10 Calibration Date: 01/25/2022 09:58  
 Instrument ID: HP21585 Calib Start Date: 01/25/2022 05:48  
 GC Column: DB-5MS 30m 0.25 ID: 0.25 (mm) Calib End Date: 01/25/2022 08:29  
 Lab File ID: MA0859.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1-Methylnaphthalene-d10 (Surr)	Ave	0.6448	0.6666		0.207	0.200	3.4	30.0
Fluoranthene-d10 (Surr)	Ave	1.253	1.225		0.196	0.200	-2.2	30.0
Benzo (a) pyrene-d12 (Surr)	Ave	0.8695	0.8919		0.205	0.200	2.6	30.0

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0859.D  
 Lims ID: ICV SS  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 25-Jan-2022 09:58:13 ALS Bottle#: 0 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV SS  
 Misc. Info.: 410-0048994-010  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist:

Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:50:20 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: transuea

Date: 25-Jan-2022 16:10:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 4 1,4-Dichlorobenzene-d4	152	7.034	6.994	0.040	85	74362	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.931	8.931	0.000	92	256186	0.2500	0.2500	
\$ 9 1-Methylnaphthalene-d10	152	10.154	10.130	0.000	100	136614	0.2000	0.2068	
* 13 Acenaphthene-d10	164	11.694	11.694	0.000	92	173410	0.2500	0.2500	
* 20 Phenanthrene-d10	188	13.589	13.589	0.000	96	355226	0.2500	0.2500	
\$ 24 Fluoranthene-d10 (Surr)	212	15.245	15.256	-0.012	97	348134	0.2000	0.1956	
* 29 Chrysene-d12	240	17.653	17.650	0.003	55	416503	0.2500	0.2500	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.992	19.992	-0.005	98	333419	0.2000	0.2052	
* 38 Perylene-d12	264	20.122	20.127	-0.005	98	467293	0.2500	0.2500	

## QC Flag Legend

Processing Flags

## Reagents:

MSS\_RVSIM\_ICV\_00027

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0859.D

Injection Date: 25-Jan-2022 09:58:13

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: ICV SS

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

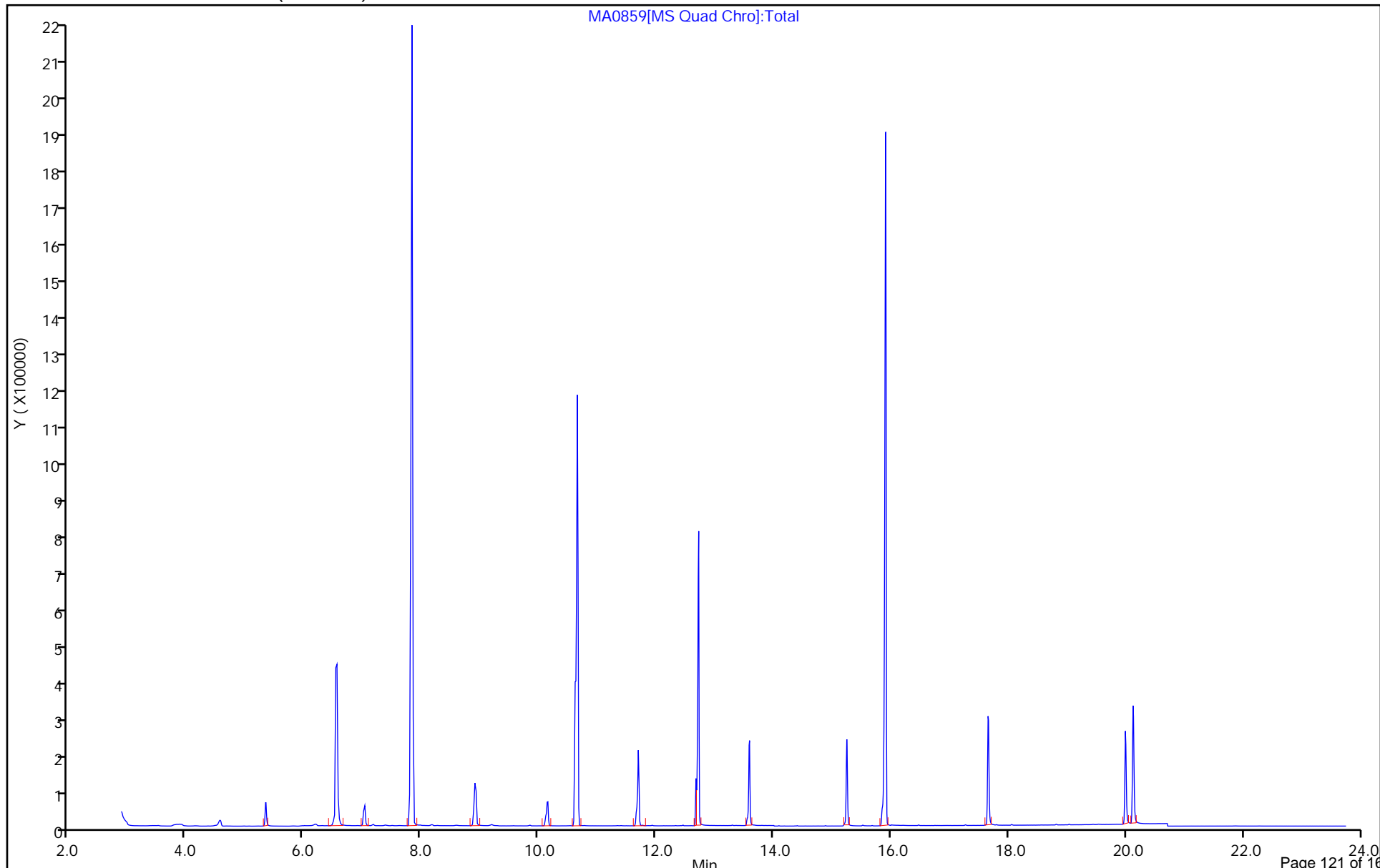
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm ( 0.25 mm)





FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-70640-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 410-219961/2 Calibration Date: 02/02/2022 06:20

Instrument ID: HP21585 Calib Start Date: 01/25/2022 05:48

GC Column: DB-5MS 30m 0.25 ID: 0.25 (mm) Calib End Date: 01/25/2022 08:29

Lab File ID: MB0051.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.7416	0.7385		0.498	0.500	-0.4	20.4
N-Nitrosodimethylamine	Ave	0.7491	0.7226		0.482	0.500	-3.5	20.4
Bis(2-chloroethyl)ether	Ave	0.3562	0.3674		0.516	0.500	3.1	20.4
Naphthalene	Ave	1.103	1.079		0.489	0.500	-2.2	20.4
Quinoline	Ave	0.5381	0.5703		0.530	0.500	6.0	20.4
2-Methylnaphthalene	Ave	0.7568	0.7752		0.512	0.500	2.4	20.4
1-Methylnaphthalene	Ave	0.7334	0.7250		0.494	0.500	-1.1	20.4
Dimethyl phthalate	Ave	1.246	1.258		2.52	2.50	1.0	20.4
Acenaphthylene	Ave	1.651	1.680		0.509	0.500	1.8	20.4
Acenaphthene	Ave	1.133	1.132		0.500	0.500	-0.0	20.4
Dibenzofuran	Ave	1.731	1.737		0.502	0.500	0.3	20.4
Diethyl phthalate	Ave	1.143	1.121		2.45	2.50	-1.9	20.4
Fluorene	Ave	1.394	1.405		0.504	0.500	0.9	20.4
N-Nitrosodiphenylamine	Lin2		0.4480		0.526	0.500	5.2	20.4
Hexachlorobenzene	Ave	0.2580	0.2942		0.570	0.500	14.1	20.4
Phenanthrene	Ave	1.096	1.067		0.487	0.500	-2.6	20.4
Anthracene	Ave	1.017	1.076		0.529	0.500	5.8	20.4
Di-n-butyl phthalate	Ave	0.9093	0.9399		2.58	2.50	3.4	20.4
Fluoranthene	Ave	1.375	1.552		0.564	0.500	12.8	20.4
Pyrene	Ave	1.213	1.134		0.467	0.500	-6.6	20.4
Butyl benzyl phthalate	Ave	0.3519	0.3289		2.34	2.50	-6.5	20.4
Benzo[a]anthracene	Ave	1.185	1.247		0.526	0.500	5.2	20.4
Chrysene	Ave	1.367	1.347		0.493	0.500	-1.4	20.4
Bis(2-ethylhexyl) phthalate	Ave	0.4998	0.4755		2.38	2.50	-4.9	20.4
Di-n-octyl phthalate	Ave	0.7251	0.6839		2.36	2.50	-5.7	20.4
Benzo[b]fluoranthene	Ave	1.148	1.163		0.506	0.500	1.3	20.4
Benzo[k]fluoranthene	Ave	1.309	1.347		0.515	0.500	2.9	20.4
Benzo[e]pyrene	Ave	1.145	1.158		0.506	0.500	1.2	20.4
Benzo[a]pyrene	Ave	1.114	1.158		0.520	0.500	4.0	20.4
Perylene	Ave	1.183	1.204		0.509	0.500	1.8	20.4
Indeno[1,2,3-cd]pyrene	Ave	1.050	0.8262		0.394	0.500	-21.3*	20.4
Dibenz(a,h)anthracene	Ave	1.172	0.9324		0.398	0.500	-20.5*	20.4
Benzo[g,h,i]perylene	Ave	1.318	0.9432		0.358	0.500	-28.4*	20.4
1-Methylnaphthalene-d10 (Surr)	Ave	0.6448	0.6463		0.501	0.500	0.2	20.4
Fluoranthene-d10 (Surr)	Ave	1.253	1.361		0.543	0.500	8.6	20.4
Benzo(a)pyrene-d12 (Surr)	Ave	0.8695	0.9288		0.534	0.500	6.8	20.4

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0051.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 02-Feb-2022 06:20:12 ALS Bottle#: 0 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 410-0049546-002, 4  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Sublist: chrom-8270\_SIM\_HP21585\*sub3

Method: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 02-Feb-2022 06:55:01 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D

Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1667

First Level Reviewer: gamblerj

Date: 02-Feb-2022 06:54:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	2.991	2.991	0.000	95	77280	0.5000	0.4979	
2 N-Nitrosodimethylamine	74	3.459	3.459	0.000	92	75621	0.5000	0.4823	
3 Bis(2-chloroethyl)ether	93	6.581	6.581	0.000	91	121275	0.5000	0.5157	
* 4 1,4-Dichlorobenzene-d4	152	6.952	6.952	0.000	89	52325	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.869	8.869	0.000	91	165041	0.2500	0.2500	
6 Naphthalene	128	8.910	8.910	0.000	93	356258	0.5000	0.4892	
7 Quinoline	129	9.445	9.445	0.000	84	188260	0.5000	0.5299	
8 2-Methylnaphthalene	142	10.007	10.007	0.000	96	255883	0.5000	0.5121	
\$ 9 1-Methylnaphthalene-d10	152	10.105	10.105	0.000	99	213319	0.5000	0.5011	
10 1-Methylnaphthalene	142	10.166	10.166	0.000	96	239306	0.5000	0.4943	
11 Dimethyl phthalate	163	11.303	11.303	0.000	98	1510854	2.50	2.52	
12 Acenaphthylene	152	11.438	11.438	0.000	99	403308	0.5000	0.5088	
* 13 Acenaphthene-d10	164	11.658	11.658	0.000	92	120053	0.2500	0.2500	
14 Acenaphthene	154	11.707	11.707	0.000	92	271752	0.5000	0.4996	
15 Dibenzofuran	168	11.958	11.958	0.000	100	416978	0.5000	0.5015	
16 Diethyl phthalate	149	12.301	12.301	0.000	97	1345361	2.50	2.45	
17 Fluorene	166	12.395	12.395	0.000	95	337459	0.5000	0.5043	
18 N-Nitrosodiphenylamine	169	12.559	12.559	0.000	100	221930	0.5000	0.5261	
19 Hexachlorobenzene	284	13.051	13.051	0.000	89	145762	0.5000	0.5703	
* 20 Phenanthrene-d10	188	13.550	13.550	0.000	98	247698	0.2500	0.2500	
21 Phenanthrene	178	13.581	13.581	0.000	100	528665	0.5000	0.4870	
22 Anthracene	178	13.652	13.652	0.000	100	533291	0.5000	0.5292	
23 Di-n-butyl phthalate	149	14.367	14.367	0.000	100	2328218	2.50	2.58	
\$ 24 Fluoranthene-d10 (Surr)	212	15.213	15.213	0.000	99	674130	0.5000	0.5432	
25 Fluoranthene	202	15.238	15.238	0.000	98	768682	0.5000	0.5642	
26 Pyrene	202	15.583	15.583	0.000	97	824133	0.5000	0.4672	
27 Butyl benzyl phthalate	149	16.707	16.707	0.000	100	1195372	2.50	2.34	
28 Benzo[a]anthracene	228	17.596	17.596	0.000	100	906223	0.5000	0.5261	
* 29 Chrysene-d12	240	17.620	17.620	0.000	74	363446	0.2500	0.2500	
30 Chrysene	228	17.658	17.658	0.000	100	979240	0.5000	0.4928	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
31 Bis(2-ethylhexyl) phthalate	149	17.765	17.765	0.000	96	1728291	2.50	2.38	
32 Di-n-octyl phthalate	149	18.931	18.931	0.000	100	2928127	2.50	2.36	
33 Benzo[b]fluoranthene	252	19.460	19.460	0.000	100	995860	0.5000	0.5064	
34 Benzo[k]fluoranthene	252	19.514	19.514	0.000	100	1153428	0.5000	0.5147	
35 Benzo[e]pyrene	252	19.913	19.913	0.000	100	991535	0.5000	0.5058	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.959	19.959	0.000	97	795312	0.5000	0.5341	
37 Benzo[a]pyrene	252	19.997	19.997	0.000	100	991731	0.5000	0.5200	
* 38 Perylene-d12	264	20.089	20.089	0.000	97	428138	0.2500	0.2500	
39 Perylene	252	20.127	20.127	0.000	100	1031325	0.5000	0.5089	
40 Indeno[1,2,3-cd]pyrene	276	21.749	21.749	0.000	97	707494	0.5000	0.3936	M
41 Dibenz(a,h)anthracene	278	21.791	21.791	0.000	92	798434	0.5000	0.3977	
42 Benzo[g,h,i]perylene	276	22.187	22.187	0.000	93	807672	0.5000	0.3578	

**QC Flag Legend**

Processing Flags

Review Flags

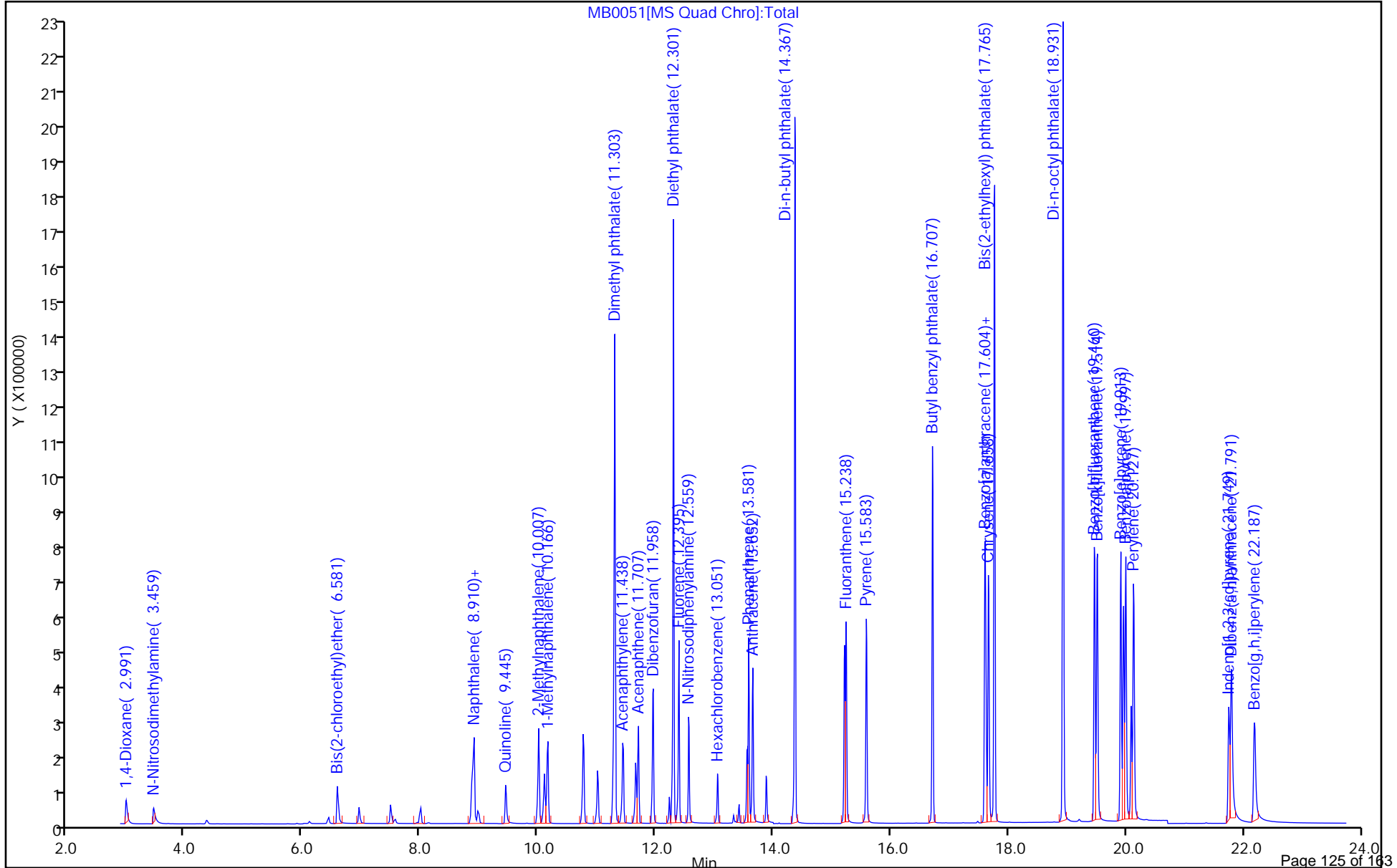
M - Manually Integrated

**Reagents:**

MSS\_RVSIM\_4\_00019

Amount Added: 1.00

Units: mL



Eurofins Lancaster Laboratories Env, LLC

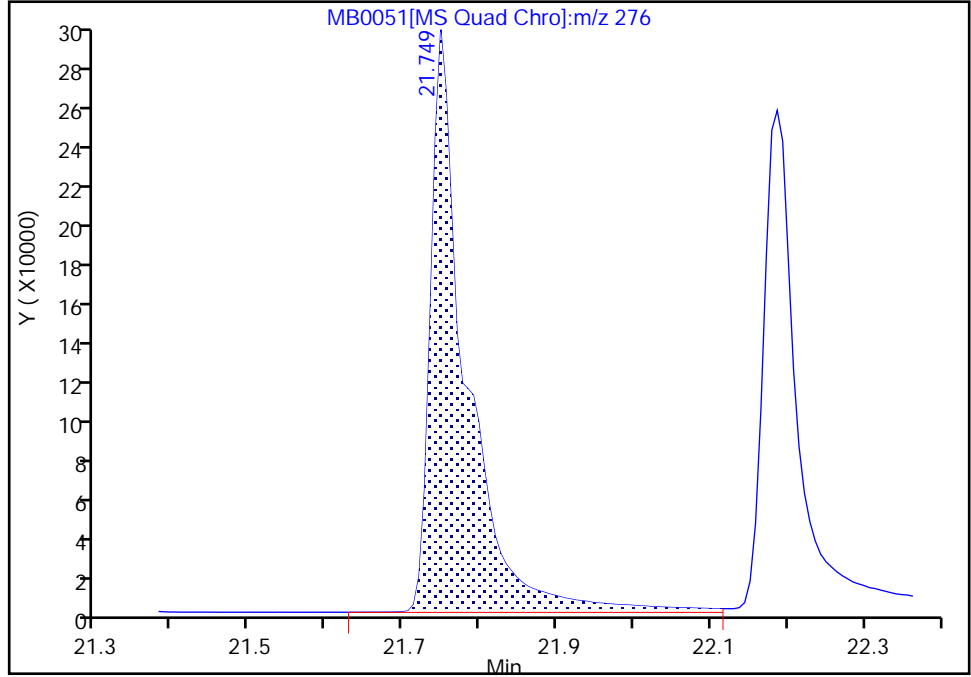
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Injection Date: 02-Feb-2022 06:20:12 Instrument ID: HP21585  
Lims ID: CCVIS  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 2  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm (0.25 mm) Detector: MS SCAN

40 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

Signal: 1

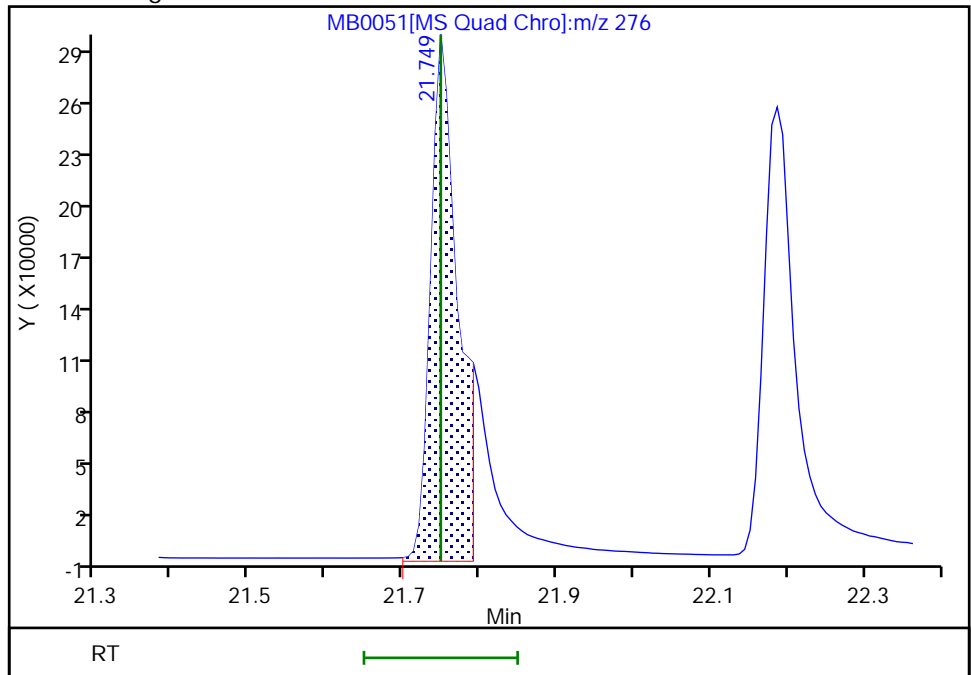
RT: 21.75  
Area: 952988  
Amount: 0.530144  
Amount Units: ug/ml

Processing Integration Results



RT: 21.75  
Area: 707494  
Amount: 0.393577  
Amount Units: ug/ml

Manual Integration Results



Eurofins Lancaster Laboratories Env, LLC  
 Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 25-Jan-2022 05:27:15 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: DFTPP  
 Misc. Info.: 410-0048994-001  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Method: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 25-Jan-2022 13:17:14 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
 Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1601

First Level Reviewer: gamblerj Date: 25-Jan-2022 06:25:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.831	4.831	0.000	0	4692028	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.084	6.084	0.000	0	9512919	NR	NR	
47 4,4'-DDE	246	6.227	6.227	0.000	0	19241		NR	
48 4,4'-DDD	235	6.513	6.513	0.000	0	117745		NR	
49 4,4'-DDT	235	6.765	6.765	0.000	0	7567563	NR	NR	

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

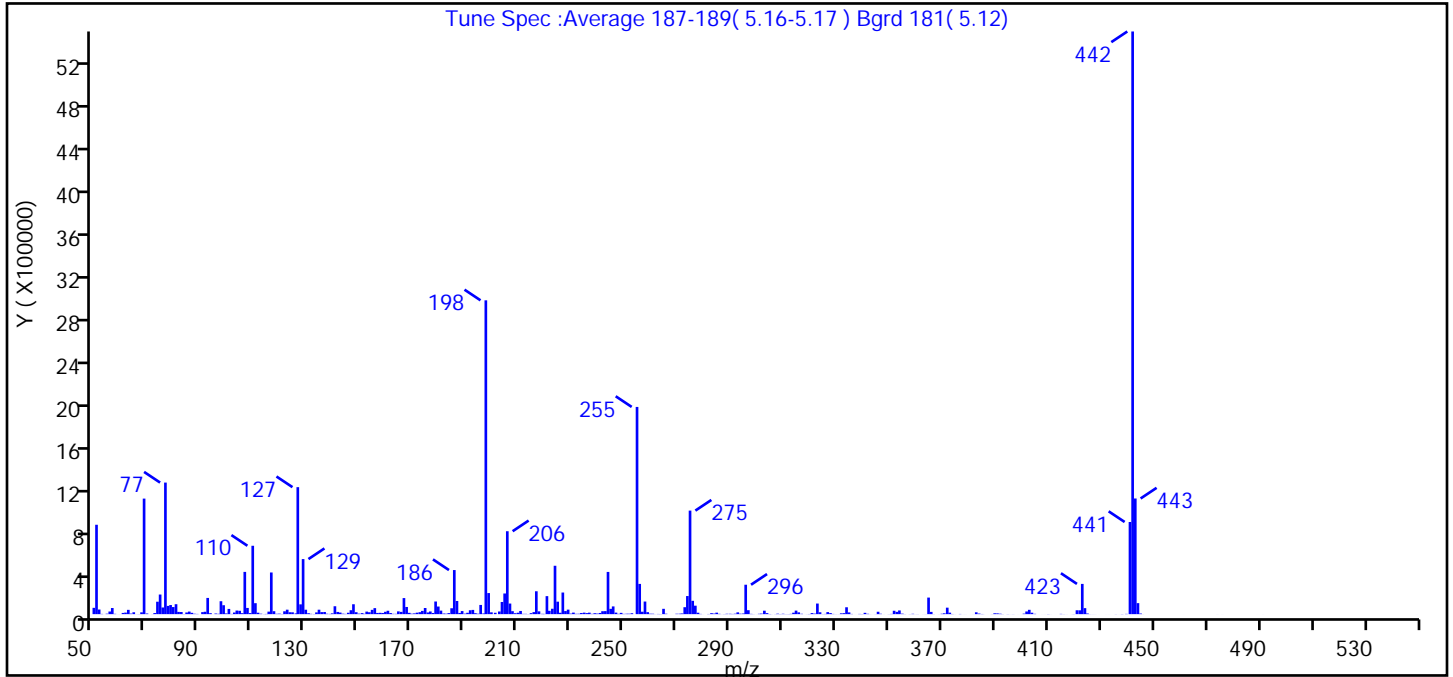
**Reagents:**

MSS\_RVDFTPP\_00009 Amount Added: 1.00 Units: mL

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D  
 Injection Date: 25-Jan-2022 05:27:15 Instrument ID: HP21585  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
 Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (53.9)
51	10-80% of the base peak	28.5
68	<2% of mass 69	0.6 (1.6)
69	Present	36.8
70	<2% of mass 69	0.2 (0.5)
127	10-80% of the base peak	40.5
197	<2% of mass 198	0.2
199	5-9% of mass 198	6.7
275	10-60% of the base peak	33.0
365	>1% of mass 198	5.3
441	present but <24% of mass 442	29.4 (15.8)
442	base peak, or >50% of 198	185.7
443	15-24% of mass 442	36.9 (19.8)

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D\8270\_SIM\_HP21585.rslt\spectra  
Injection Date: 25-Jan-2022 05:27:15  
Spectrum: Tune Spec :Average 187-189( 5.16-5.17 ) Bgrd 181( 5.12)  
Base Peak: 441.95  
Minimum % Base Peak: 0  
Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	59176	146.00	13065	242.00	27536	342.00	3316
51.00	839680	147.00	36720	243.00	28456	343.00	496
52.00	43320	148.00	92944	244.00	396544	344.00	179
53.00	2215	149.00	18104	245.00	49848	345.00	709
54.00	201	150.00	4603	246.00	72600	346.00	22472
55.00	4245	151.00	9555	247.00	14252	347.00	3761
56.00	24760	152.00	3186	248.00	2834	348.00	305
57.00	57456	153.00	23768	249.00	12048	350.00	772
58.00	2956	154.00	17928	250.00	2461	351.00	2250
59.00	313	155.00	40272	251.00	3830	352.00	31856
60.00	380	156.00	56440	252.00	4041	353.00	21576
61.00	11468	157.00	11216	253.00	8574	354.00	34744
62.00	14333	158.00	12504	255.00	1946624	355.00	4646
63.00	40312	159.00	11063	256.00	284032	356.00	840
64.00	5238	160.00	22104	257.00	22736	358.00	801
65.00	17528	161.00	31744	258.00	118392	359.00	3152
66.00	507	162.00	10285	259.00	18744	360.00	439
67.00	1008	163.00	3093	260.00	4053	361.00	741
68.00	16960	164.00	2888	261.00	3747	363.00	285
69.00	1085440	165.00	25976	262.00	592	364.00	558
70.00	5947	166.00	21304	263.00	1859	365.00	155584
72.00	565	167.00	150912	264.00	1220	366.00	21152
73.00	10084	168.00	67376	265.00	50032	367.00	899
74.00	116712	169.00	12262	266.00	4010	369.00	363
75.00	184256	170.00	4245	270.00	3755	370.00	3797
76.00	62592	171.00	7154	271.00	4214	371.00	7776
77.00	1235968	172.00	13839	272.00	6313	372.00	60824
78.00	77416	173.00	18272	273.00	65176	373.00	13878
79.00	85488	174.00	30336	274.00	169984	374.00	1657
80.00	66576	175.00	57640	275.00	972672	375.00	338
81.00	93392	176.00	15648	276.00	125224	377.00	1813
82.00	21120	177.00	25016	277.00	79448	378.00	223
83.00	19952	178.00	10948	278.00	13318	379.00	253



Data File:

\\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D\8270\_SIM\_HP21585.rslt\spectra

Injection Date:

25-Jan-2022 05:27:15

Spectrum:

Tune Spec :Average 187-189( 5.16-5.17 ) Bgrd 181( 5.12)

Base Peak:

441.95

Minimum % Base Peak: 0

Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	1389	179.00	118712	279.00	2230	381.00	116
85.00	15587	180.00	71424	280.00	304	382.00	298
86.00	24024	181.00	33112	282.00	1665	383.00	17280
87.00	12463	182.00	5554	283.00	9148	384.00	5291
88.00	3951	183.00	4206	284.00	5541	385.00	1574
89.00	2114	184.00	9708	285.00	13938	386.00	333
90.00	98	185.00	55248	286.00	3112	387.00	74
91.00	18888	186.00	414144	287.00	428	389.00	622
92.00	22336	187.00	123600	288.00	1079	390.00	8050
93.00	152320	188.00	11179	289.00	3424	391.00	7261
94.00	8991	189.00	28928	290.00	3352	392.00	4054
95.00	252	190.00	4853	291.00	1991	393.00	968
96.00	5855	191.00	12836	292.00	4151	395.00	944
97.00	3288	192.00	36504	293.00	16872	396.00	276
98.00	121352	193.00	39800	294.00	4339	397.00	696
99.00	83744	194.00	8881	295.00	6186	398.00	67
100.00	6560	195.00	4061	296.00	276352	399.00	170
101.00	49072	196.00	86408	297.00	37056	400.00	148
102.00	2053	197.00	6577	298.00	2569	401.00	4756
103.00	15055	198.00	2948096	299.00	805	402.00	25136
104.00	33712	199.00	198016	300.00	308	403.00	40712
105.00	31376	200.00	17024	301.00	3311	404.00	13472
106.00	9008	201.00	12821	302.00	5156	405.00	2912
107.00	396928	203.00	24888	303.00	32392	408.00	156
108.00	58288	204.00	114280	304.00	9562	409.00	224
109.00	9908	205.00	194048	305.00	1448	410.00	1126
110.00	642304	206.00	778944	306.00	422	411.00	262
111.00	102952	207.00	99512	307.00	824	413.00	73
112.00	13303	208.00	27704	308.00	4273	415.00	2363
113.00	4021	209.00	8747	309.00	1428	416.00	753
114.00	1042	210.00	13196	310.00	3605	417.00	316
115.00	2083	211.00	29832	311.00	1050	419.00	300
116.00	23664	212.00	2677	312.00	1319	420.00	872
117.00	391424	213.00	2739	313.00	2714	421.00	36408

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D\8270\_SIM\_HP21585.rslt\spectra

Injection Date: 25-Jan-2022 05:27:15

Spectrum: Tune Spec :Average 187-189( 5.16-5.17 ) Bgrd 181( 5.12)

Base Peak: 441.95

Minimum % Base Peak: 0

Number of Points: 380

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	27504	214.00	1029	314.00	13501	422.00	35944
119.00	3330	215.00	9410	315.00	33192	423.00	284096
120.00	4700	216.00	19048	316.00	16744	424.00	56328
121.00	1407	217.00	214976	317.00	3410	425.00	6058
122.00	26760	218.00	26208	318.00	171	426.00	643
123.00	41944	219.00	2890	319.00	561	427.00	407
124.00	17728	220.00	2253	320.00	1560	428.00	314
125.00	17072	221.00	169216	321.00	9914	429.00	110
126.00	6809	222.00	31400	322.00	5163	432.00	162
127.00	1192960	223.00	50664	323.00	99584	433.00	154
128.00	91928	224.00	454464	324.00	17624	436.00	330
129.00	517248	225.00	117072	325.00	1086	436.00	445
130.00	41456	226.00	12960	326.00	2310	437.00	199
131.00	8616	227.00	203072	327.00	19296	438.00	1166
132.00	2847	228.00	28992	328.00	9817	440.00	2471
133.00	1405	229.00	42392	329.00	2162	441.00	865664
134.00	16194	230.00	5045	330.00	649	442.00	5473792
135.00	41696	231.00	14466	331.00	532	443.00	1086464
136.00	19072	232.00	3205	332.00	7574	444.00	103312
137.00	20336	233.00	3794	333.00	9276	445.00	5731
138.00	3607	234.00	10900	334.00	64608	446.00	441
139.00	2344	235.00	14162	335.00	16277	461.00	107
140.00	7312	236.00	9723	336.00	2012	474.00	222
141.00	74192	237.00	13895	337.00	159	476.00	178
142.00	20664	238.00	2924	338.00	193	489.00	117
143.00	14755	239.00	8664	339.00	2188	490.00	60
144.00	4278	240.00	5487	340.00	1314	491.00	172
145.00	2262	241.00	11057	341.00	12430	549.00	124

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D

Injection Date: 25-Jan-2022 05:27:15

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: DFTPP

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

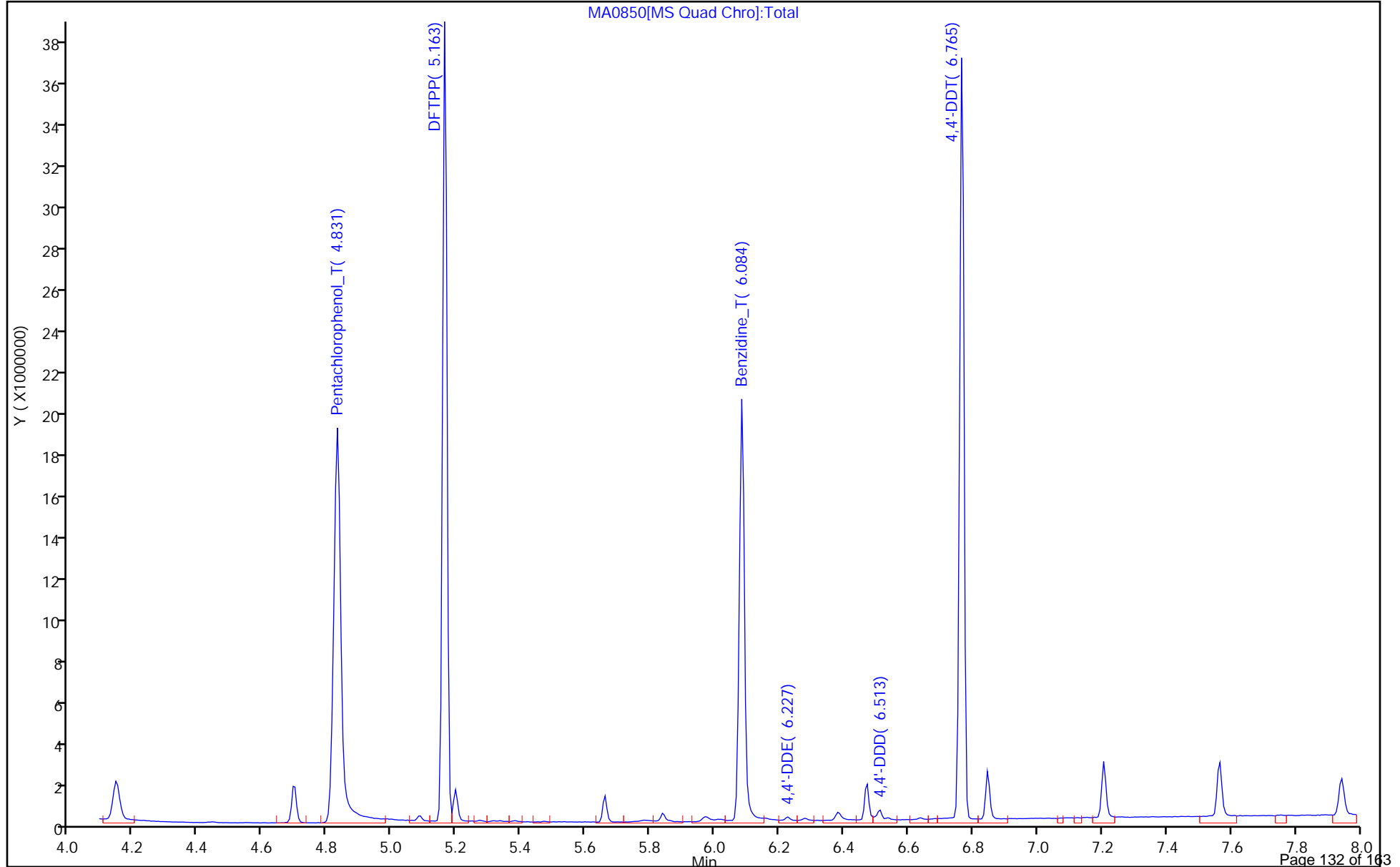
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm ( 0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D  
Injection Date: 25-Jan-2022 05:27:15 Instrument ID: HP21585  
Lims ID: DFTPP  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM

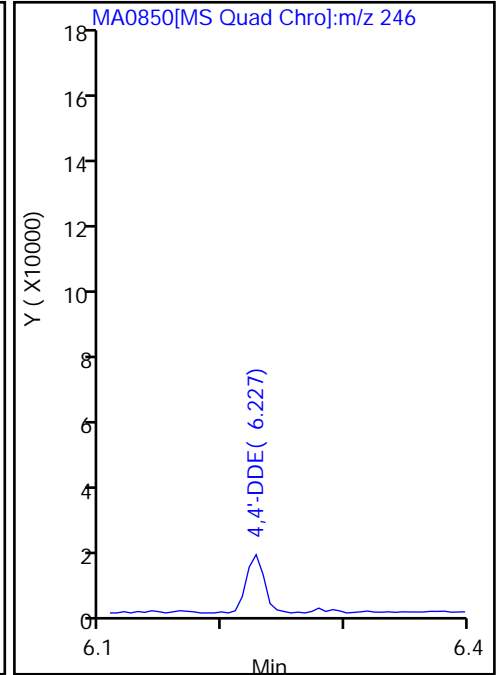
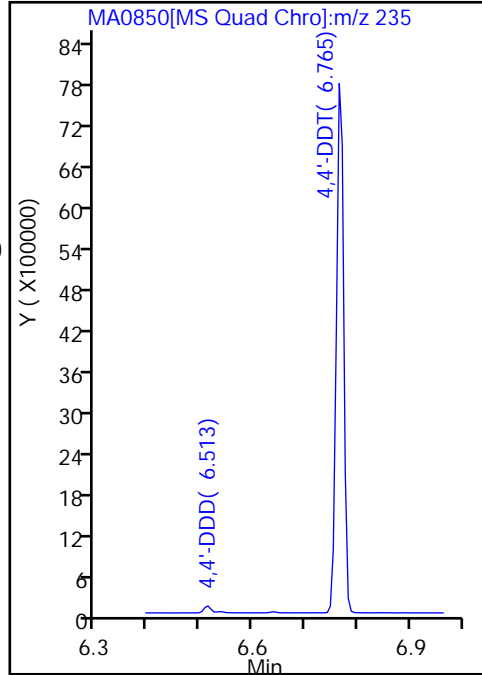
49 4,4'-DDT, Detector: MS Quad

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

49 4,4'-DDT, Area = 7567563  
47 4,4'-DDE, Area = 19241  
48 4,4'-DDD, Area = 117745

%Breakdown: 1.78%, <= 20.00%  
Passed



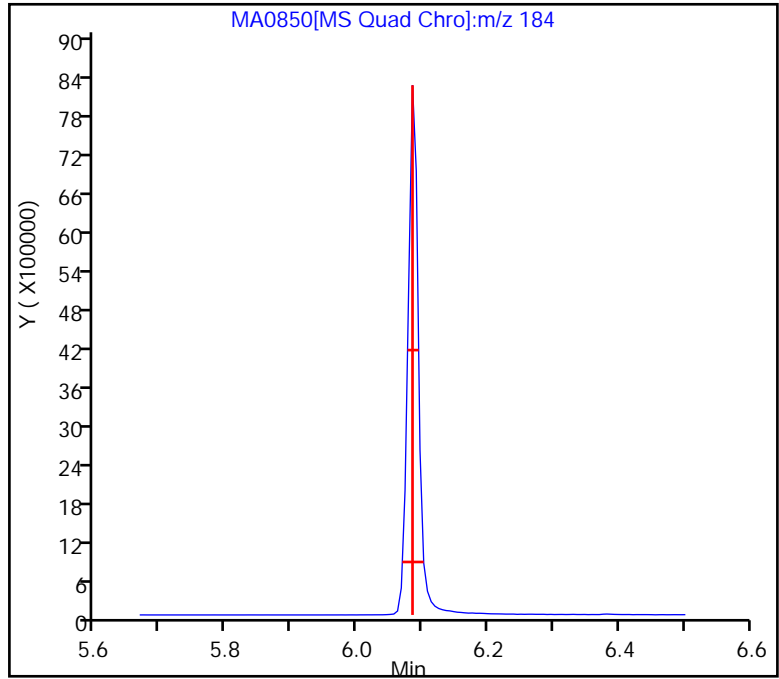
Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D  
Injection Date: 25-Jan-2022 05:27:15 Instrument ID: HP21585  
Lims ID: DFTPP  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
46 Benzidine\_T, Detector: MS Quad

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)  
Front Width = 0.016 (min.)

Tailing Factor = 1.06, Max. Tailing <= 2.00  
Passed  
-----



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0850.D  
Injection Date: 25-Jan-2022 05:27:15 Instrument ID: HP21585  
Lims ID: DFTPP  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM

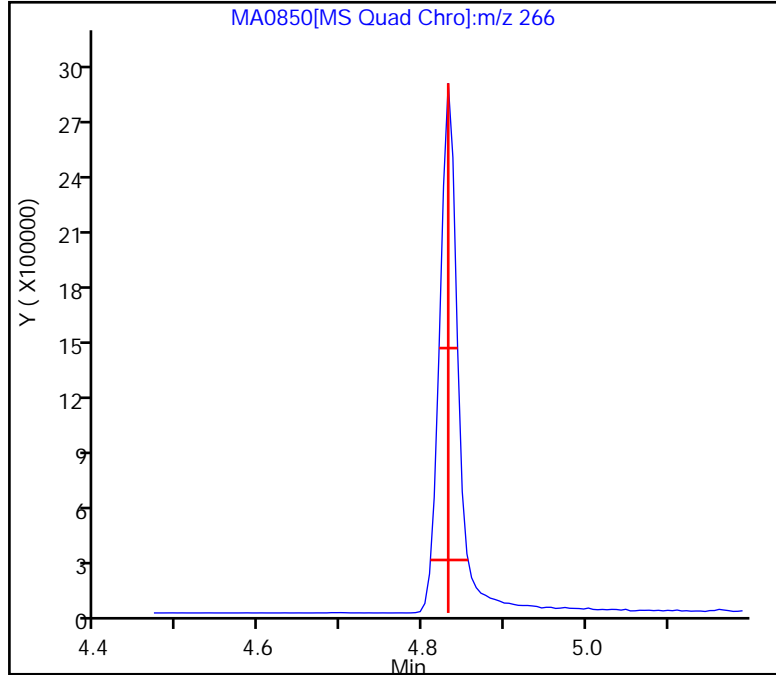
44 Pentachlorophenol\_T, Detector: MS Quad

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)  
Front Width = 0.022 (min.)

Tailing Factor = 1.09, Max. Tailing <= 2.00  
Passed

-----



Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 02-Feb-2022 06:01:59 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: DFTPP  
 Misc. Info.: 410-0049546-001  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Method: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 02-Feb-2022 06:54:52 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
 Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1667

First Level Reviewer: gamblerj

Date: 02-Feb-2022 06:17:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
44 Pentachlorophenol_T	266	4.802	4.802	0.000	0	3259281	NR	NR	
45 DFTPP									
46 Benzidine_T	184	6.061	6.061	0.000	0	6054222	NR	NR	
48 4,4'-DDD	235	6.490	6.490	0.000	0	323154		NR	
49 4,4'-DDT	235	6.742	6.742	0.000	0	4404009	NR	NR	

**QC Flag Legend**

## Processing Flags

NR - Missing Quant Standard

8 - Failed MS Tune Ratio Test

**Reagents:**

MSS\_RVDFTPP\_00009

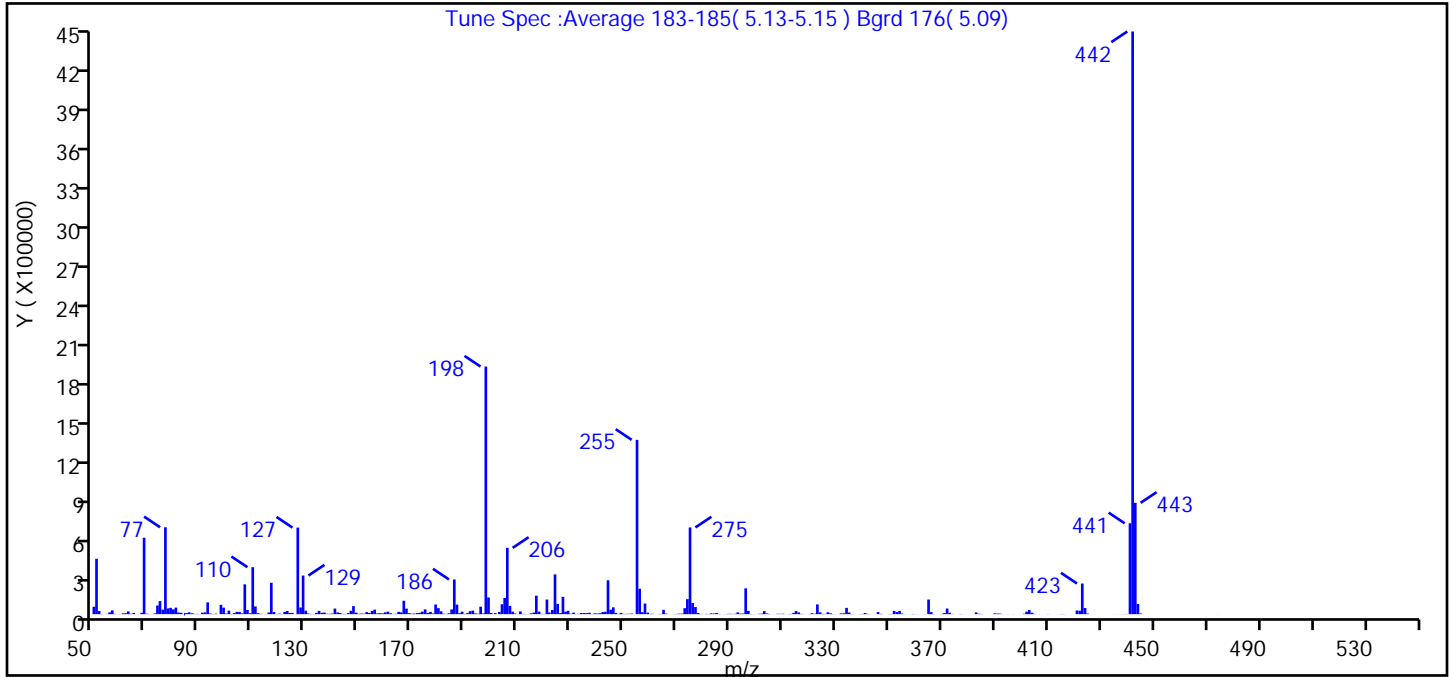
Amount Added: 1.00

Units: mL

Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D  
 Injection Date: 02-Feb-2022 06:01:59 Instrument ID: HP21585  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
 Tune Method: DFTPP Method 8270D, BP 198

45 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (42.5)
51	10-80% of the base peak	22.4
68	<2% of mass 69	0.6 (1.8)
69	Present	30.9
70	<2% of mass 69	0.2 (0.6)
127	10-80% of the base peak	35.0
197	<2% of mass 198	0.3
199	5-9% of mass 198	6.7
275	10-60% of the base peak	35.0
365	>1% of mass 198	5.9
441	present but <24% of mass 442	36.7 (15.6)
442	base peak, or >50% of 198	235.3
443	15-24% of mass 442	45.0 (19.1)



Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D\8270\_SIM\_HP21585.rslt\spectra  
 Injection Date: 02-Feb-2022 06:01:59  
 Spectrum: Tune Spec :Average 183-185( 5.13-5.15 ) Bgrd 176( 5.09)  
 Base Peak: 441.95  
 Minimum % Base Peak: 0  
 Number of Points: 377

m/z	Y	m/z	Y	m/z	Y	m/z	Y
50.00	55976	146.00	8144	242.00	15323	341.00	8725
51.00	419648	147.00	25128	243.00	17736	342.00	2431
52.00	23472	148.00	60848	244.00	256832	343.00	299
53.00	1121	149.00	11199	245.00	33640	344.00	151
55.00	2188	150.00	2729	246.00	51440	345.00	25
56.00	13488	151.00	4336	247.00	9585	346.00	15714
57.00	28768	152.00	3188	248.00	2346	347.00	2560
58.00	2077	153.00	15843	249.00	9575	348.00	403
59.00	485	154.00	9313	250.00	1854	349.00	50
60.00	266	155.00	24384	251.00	2128	350.00	989
61.00	6101	156.00	34168	252.00	2625	351.00	1794
62.00	7548	157.00	5814	253.00	4577	352.00	24584
63.00	20584	158.00	7297	255.00	1320448	353.00	15953
64.00	3061	159.00	6177	256.00	192384	354.00	24256
65.00	8835	160.00	13452	257.00	14873	355.00	4576
66.00	526	161.00	18576	258.00	80392	356.00	754
67.00	508	162.00	6968	259.00	11480	358.00	286
68.00	10470	163.00	1561	260.00	2221	359.00	1648
69.00	578816	164.00	2569	261.00	2039	360.00	604
70.00	3396	165.00	16936	263.00	1090	361.00	665
71.00	635	166.00	13233	264.00	2055	363.00	197
72.00	356	167.00	101408	265.00	32760	363.00	367
73.00	5396	168.00	41808	266.00	4068	364.00	607
74.00	65808	169.00	7314	269.00	874	365.00	110760
75.00	98872	170.00	3272	270.00	1820	366.00	15266
76.00	33896	171.00	4339	271.00	3550	367.00	1540
77.00	658240	172.00	8298	272.00	3990	368.00	138
78.00	43304	173.00	10281	273.00	45056	369.00	55
79.00	47784	174.00	19136	274.00	113584	370.00	2700
80.00	35728	175.00	36112	275.00	656768	371.00	8276
81.00	49336	176.00	9501	276.00	83960	372.00	42832
82.00	12149	177.00	16896	277.00	53840	373.00	10665
83.00	10504	178.00	4997	278.00	8804	374.00	1522

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D\8270\_SIM\_HP21585.rslt\spectra

Injection Date: 02-Feb-2022 06:01:59

Spectrum: Tune Spec :Average 183-185( 5.13-5.15 ) Bgrd 176( 5.09)

Base Peak: 441.95

Minimum % Base Peak: 0

Number of Points: 377

m/z	Y	m/z	Y	m/z	Y	m/z	Y
84.00	10	179.00	73000	279.00	1682	376.00	170
85.00	8313	180.00	45376	280.00	235	377.00	1353
86.00	13810	181.00	21632	281.00	1904	378.00	332
87.00	6954	182.00	3591	282.00	1525	379.00	360
88.00	2748	183.00	1950	283.00	6246	381.00	65
89.00	1990	184.00	6688	284.00	4633	382.00	66
90.00	510	185.00	35592	285.00	8846	383.00	13200
91.00	11222	186.00	262720	286.00	1892	384.00	3324
92.00	12957	187.00	72248	287.00	24	385.00	1243
93.00	89072	188.00	6923	288.00	664	388.00	127
94.00	4978	189.00	18952	289.00	1849	389.00	334
95.00	987	190.00	2141	290.00	2626	390.00	6140
96.00	3542	191.00	8307	291.00	1557	391.00	4710
97.00	312	192.00	22648	292.00	2692	392.00	3512
98.00	70728	193.00	26488	293.00	12819	393.00	744
99.00	49000	194.00	5542	294.00	3887	395.00	575
100.00	4491	195.00	3276	295.00	5009	396.00	146
101.00	26744	196.00	56680	296.00	195328	397.00	487
102.00	1338	197.00	5619	297.00	24832	399.00	117
103.00	8070	198.00	1875968	298.00	1543	401.00	3079
104.00	17584	199.00	126368	299.00	744	402.00	18680
105.00	17072	200.00	9248	300.00	227	403.00	31872
106.00	5834	201.00	8130	301.00	2585	404.00	10986
107.00	225792	203.00	16171	302.00	3920	405.00	1879
108.00	32040	204.00	74976	303.00	23096	406.00	94
109.00	7149	205.00	122352	304.00	5272	408.00	179
110.00	355840	206.00	502144	305.00	976	410.00	1025
111.00	58056	207.00	62736	306.00	259	411.00	187
112.00	6987	208.00	18952	307.00	412	413.00	141
113.00	2510	209.00	5077	308.00	2611	415.00	1512
114.00	627	210.00	1536	309.00	2242	416.00	859
115.00	824	211.00	20552	310.00	2992	419.00	274
116.00	12523	212.00	1816	311.00	571	420.00	94
117.00	237760	213.00	1153	312.00	701	421.00	27920

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D\8270\_SIM\_HP21585.rslt\spectra

Injection Date: 02-Feb-2022 06:01:59

Spectrum: Tune Spec :Average 183-185( 5.13-5.15 ) Bgrd 176( 5.09)

Base Peak: 441.95

Minimum % Base Peak: 0

Number of Points: 377

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	15886	214.00	972	313.00	1968	422.00	25920
119.00	1431	215.00	6410	314.00	9467	423.00	232192
120.00	3653	216.00	11683	315.00	23424	424.00	46352
121.00	659	217.00	140096	316.00	12982	425.00	4697
122.00	16323	218.00	19032	317.00	2066	426.00	255
123.00	23728	219.00	2169	318.00	549	428.00	80
124.00	9534	220.00	1911	319.00	345	429.00	231
125.00	9133	221.00	110808	320.00	509	430.00	210
126.00	608	222.00	12311	321.00	6810	434.00	259
127.00	655808	223.00	31768	322.00	3184	436.00	212
128.00	50408	224.00	301248	323.00	73904	436.00	339
129.00	292544	225.00	77688	324.00	13362	438.00	420
130.00	25800	226.00	8029	325.00	2102	438.00	889
131.00	4688	227.00	131008	326.00	1731	440.00	1505
132.00	1687	228.00	18968	327.00	14131	441.00	688320
133.00	1396	229.00	25520	328.00	6682	442.00	4414976
134.00	9586	230.00	3191	329.00	1018	443.00	843456
135.00	24632	231.00	11469	330.00	426	444.00	77376
136.00	10367	232.00	1447	331.00	279	445.00	5220
137.00	11834	233.00	2485	332.00	5940	446.00	80
138.00	3197	234.00	8491	333.00	7041	459.00	79
139.00	2307	235.00	8672	334.00	47632	461.00	57
140.00	4545	236.00	7720	335.00	12262	474.00	316
141.00	42280	237.00	10627	336.00	1093	475.00	82
142.00	12606	238.00	1606	337.00	321	549.00	115
143.00	8655	239.00	6200	338.00	78		
144.00	2035	240.00	5129	339.00	1052		
145.00	1858	241.00	7324	340.00	1532		

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D

Injection Date: 02-Feb-2022 06:01:59

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: DFTPP

Worklist Smp#: 1

Client ID:

Injection Vol: 1.0 ul

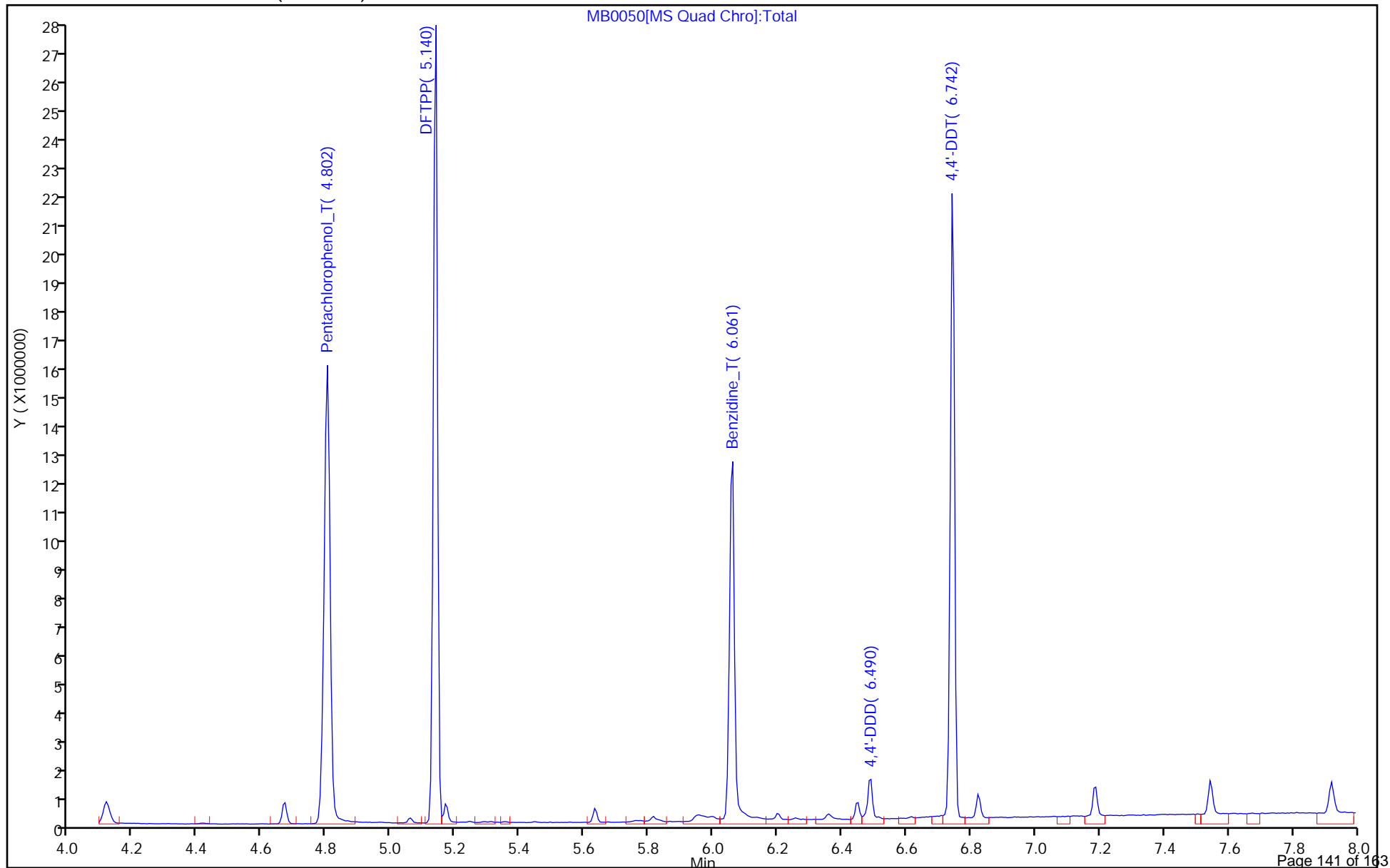
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D  
Injection Date: 02-Feb-2022 06:01:59 Instrument ID: HP21585  
Lims ID: DFTPP  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM

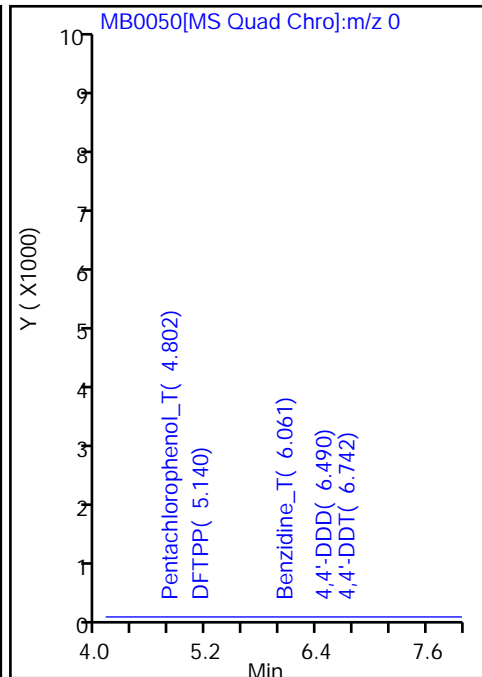
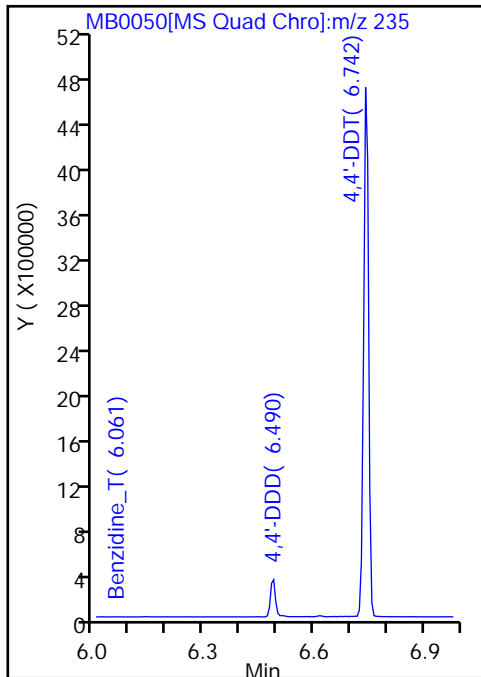
49 4,4'-DDT, Detector: MS Quad

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

49 4,4'-DDT, Area = 4404009  
47 4,4'-DDE, Area = 0  
48 4,4'-DDD, Area = 323154

%Breakdown: 6.84%, <= 20.00%  
Passed



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D  
Injection Date: 02-Feb-2022 06:01:59 Instrument ID: HP21585  
Lims ID: DFTPP  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM

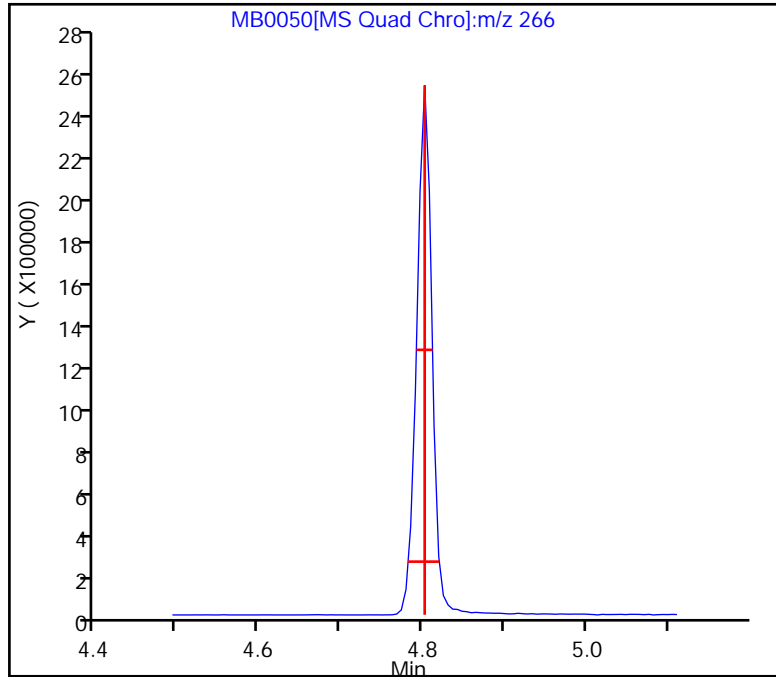
44 Pentachlorophenol\_T, Detector: MS Quad

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)  
Front Width = 0.020 (min.)

Tailing Factor = 0.90, Max. Tailing <= 2.00  
Passed

-----



Eurofins Lancaster Laboratories Env, LLC

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0050.D  
Injection Date: 02-Feb-2022 06:01:59 Instrument ID: HP21585  
Lims ID: DFTPP  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM

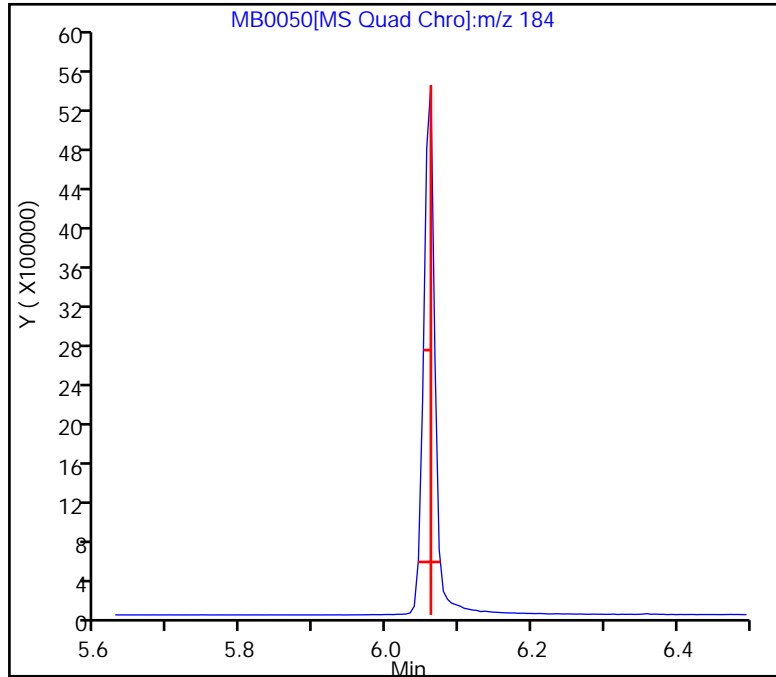
46 Benzidine\_T, Detector: MS Quad

Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)  
Front Width = 0.017 (min.)

Tailing Factor = 0.76, Max. Tailing <= 2.00  
Passed

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FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 410-218582/1-A  
 Matrix: Water Lab File ID: MB0052.D  
 Analysis Method: 8270E SIM Date Collected: \_\_\_\_\_  
 Extract. Method: 3510C Date Extracted: 01/27/2022 15:04  
 Sample wt/vol: 250 (mL) Date Analyzed: 02/02/2022 07:09  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 219961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.30	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	60		10-110
93951-69-0	Fluoranthene-d10 (Surr)	99		47-128
38072-94-5	1-Methylnaphthalene-d10 (Surr)	80		36-111



Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0052.D  
 Lims ID: MB 410-218582/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 02-Feb-2022 07:09:49 ALS Bottle#: 0 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: MB 410-218582/1-A  
 Misc. Info.: 410-0049546-003  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Method: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 03-Feb-2022 04:47:09 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
 Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1643

First Level Reviewer: gamblerj

Date: 02-Feb-2022 09:06:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.035	3.035	0.044	85	3036		0.0201	M
* 4 1,4-Dichlorobenzene-d4	152	6.952	6.952	0.000	85	50861	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.869	8.869	0.000	93	157361	0.2500	0.2500	
\$ 9 1-Methylnaphthalene-d10	152	10.105	10.105	0.000	99	81487	0.2500	0.2008	
* 13 Acenaphthene-d10	164	11.657	11.658	-0.001	92	111869	0.2500	0.2500	
* 20 Phenanthrene-d10	188	13.558	13.550	0.008	95	233195	0.2500	0.2500	
\$ 24 Fluoranthene-d10 (Surr)	212	15.214	15.212	0.001	96	289441	0.2500	0.2477	
* 29 Chrysene-d12	240	17.622	17.620	0.002	55	310669	0.2500	0.2500	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.969	19.966	0.010	97	183730	0.2500	0.1503	
* 38 Perylene-d12	264	20.099	20.089	0.010	97	351445	0.2500	0.2500	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

MSS\_RVSIM\_IS\_00022

Amount Added: 10.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0052.D

Injection Date: 02-Feb-2022 07:09:49

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: MB 410-218582/1-A

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

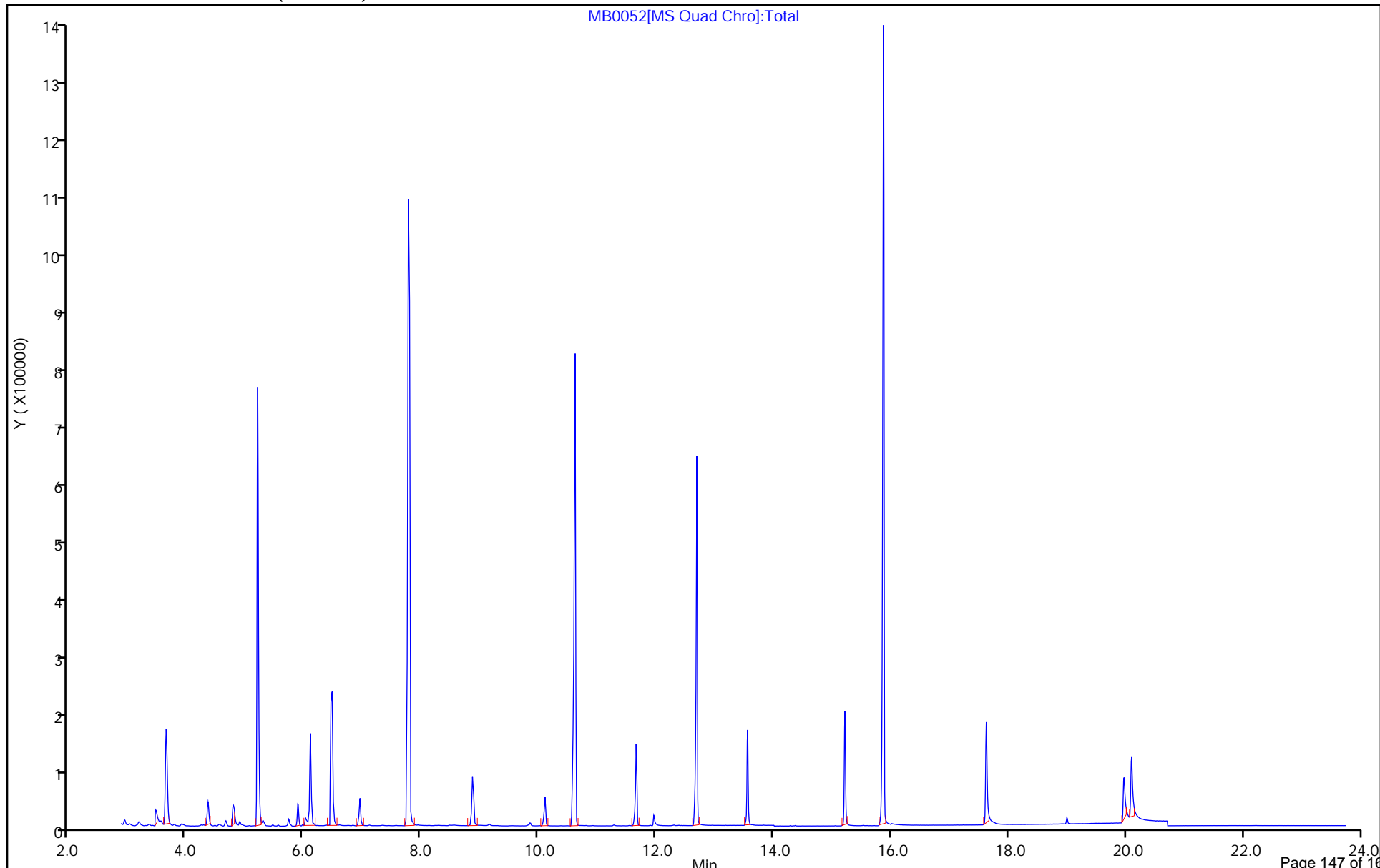
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm ( 0.25 mm)



Eurofins Lancaster Laboratories Env, LLC

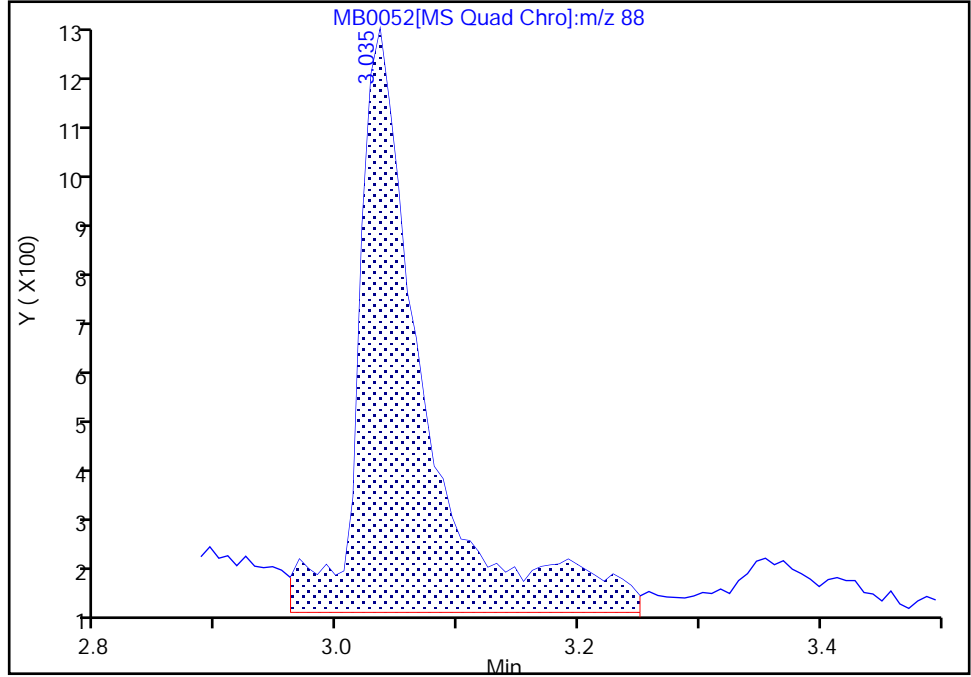
Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0052.D  
Injection Date: 02-Feb-2022 07:09:49 Instrument ID: HP21585  
Lims ID: MB 410-218582/1-A  
Client ID:  
Operator ID: jmg00346 ALS Bottle#: 0 Worklist Smp#: 3  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_SIM\_HP21585 Limit Group: MSSV - 8270D\_E SIM  
Column: DB-5MS 20m 0.25mm ( 0.25 mm) Detector MS SCAN

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

Signal: 1

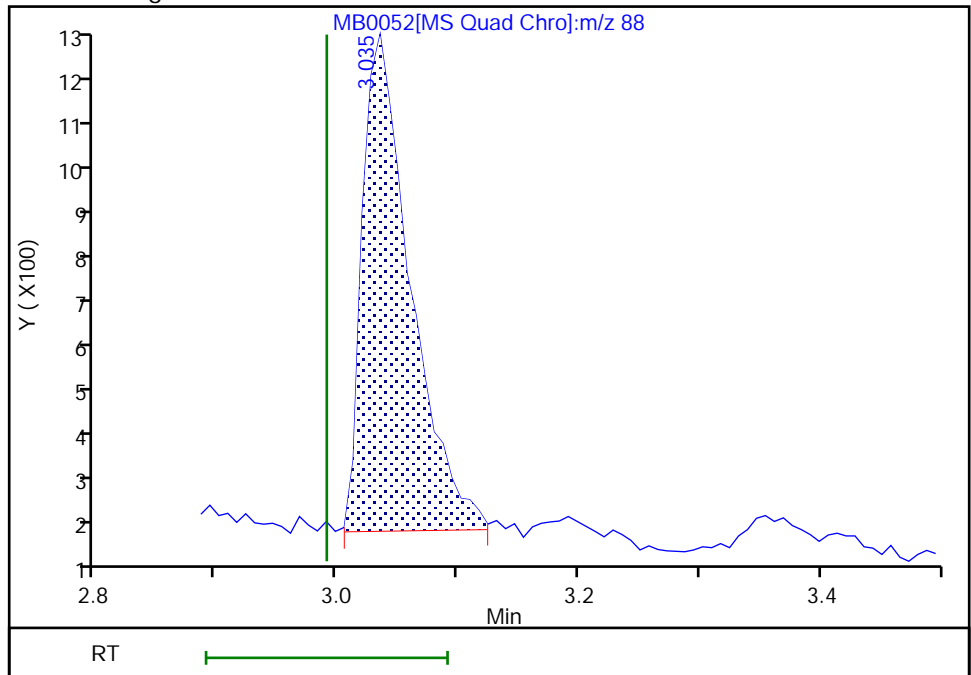
RT: 3.04  
Area: 4419  
Amount: 0.029290  
Amount Units: ug/ml

Processing Integration Results



RT: 3.04  
Area: 3036  
Amount: 0.020123  
Amount Units: ug/ml

Manual Integration Results



Reviewer: gamblerj, 02-Feb-2022 09:06:40  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 136 of 151

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 410-218582/2-A  
 Matrix: Water Lab File ID: MB0053.D  
 Analysis Method: 8270E SIM Date Collected: \_\_\_\_\_  
 Extract. Method: 3510C Date Extracted: 01/27/2022 15:04  
 Sample wt/vol: 250 (mL) Date Analyzed: 02/02/2022 07:39  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 219961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.564		0.30	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	97		10-110
93951-69-0	Fluoranthene-d10 (Surr)	101		47-128
38072-94-5	1-Methylnaphthalene-d10 (Surr)	73		36-111

Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0053.D  
 Lims ID: LCS 410-218582/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 02-Feb-2022 07:39:31 ALS Bottle#: 0 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: LCS 410-218582/2-A  
 Misc. Info.: 410-0049546-004  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Method: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 03-Feb-2022 04:47:09 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
 Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1643

First Level Reviewer: gamblerj

Date: 02-Feb-2022 09:07:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.050	3.035	0.059	96	23413	0.2500	0.1410	
2 N-Nitrosodimethylamine	74	3.495	3.459	0.036	69	32899	0.2500	0.1961	
3 Bis(2-chloroethyl)ether	93	6.581	6.581	0.000	98	59557	0.2500	0.2398	M
* 4 1,4-Dichlorobenzene-d4	152	6.952	6.952	0.000	84	55996	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.869	8.869	0.000	92	174319	0.2500	0.2500	
6 Naphthalene	128	8.910	8.910	0.000	93	135904	0.2500	0.1767	
8 2-Methylnaphthalene	142	10.007	10.007	0.000	95	96202	0.2500	0.1823	
\$ 9 1-Methylnaphthalene-d10	152	10.105	10.105	0.000	99	81617	0.2500	0.1815	
10 1-Methylnaphthalene	142	10.154	10.166	-0.012	98	97022	0.2500	0.1897	
* 13 Acenaphthene-d10	164	11.657	11.658	-0.001	95	127145	0.2500	0.2500	
19 Hexachlorobenzene	284	13.050	13.050	-0.001	88	54054	0.2500	0.1981	
* 20 Phenanthrene-d10	188	13.550	13.550	0.000	97	264511	0.2500	0.2500	
21 Phenanthrene	178	13.581	13.581	0.000	100	267095	0.2500	0.2304	
\$ 24 Fluoranthene-d10 (Surr)	212	15.208	15.212	-0.005	99	335681	0.2500	0.2533	
* 29 Chrysene-d12	240	17.614	17.620	-0.006	70	375111	0.2500	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	17.760	17.765	-0.005	97	171378	0.2500	0.2285	
33 Benzo[b]fluoranthene	252	19.463	19.467	0.003	100	446243	0.2500	0.2362	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.954	19.966	-0.005	97	345733	0.2500	0.2417	
37 Benzo[a]pyrene	252	19.992	20.004	-0.005	100	419822	0.2500	0.2292	
* 38 Perylene-d12	264	20.092	20.089	0.003	97	411272	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.751	21.749	0.002	97	266087	0.2500	0.1541	M
41 Dibenz(a,h)anthracene	278	21.794	21.799	0.003	92	297525	0.2500	0.1543	

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

MSS\_RVSIM\_IS\_00022

Amount Added: 10.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0053.D

Injection Date: 02-Feb-2022 07:39:31

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: LCS 410-218582/2-A

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

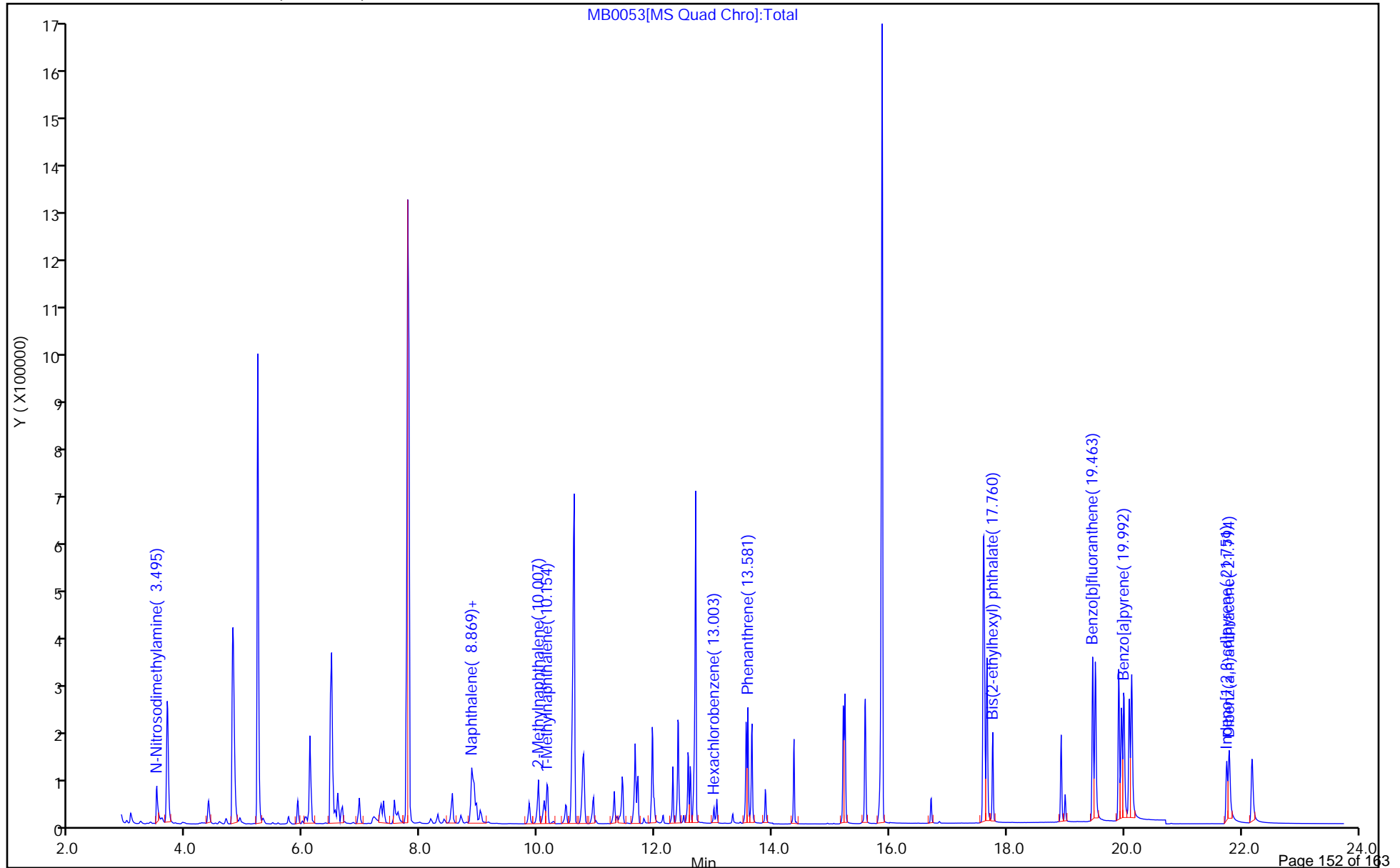
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm ( 0.25 mm)



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins Lancaster Laboratories E Job No.: 410-70640-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 410-218582/3-A  
 Matrix: Water Lab File ID: MB0054.D  
 Analysis Method: 8270E SIM Date Collected: \_\_\_\_\_  
 Extract. Method: 3510C Date Extracted: 01/27/2022 15:04  
 Sample wt/vol: 250 (mL) Date Analyzed: 02/02/2022 08:09  
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1  
 Injection Volume: 1 (uL) Level: (low/med) Low  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 219961 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.586		0.30	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
63466-71-7	Benzo(a)pyrene-d12 (Surr)	91		10-110
93951-69-0	Fluoranthene-d10 (Surr)	97		47-128
38072-94-5	1-Methylnaphthalene-d10 (Surr)	73		36-111



Eurofins Lancaster Laboratories Env, LLC  
Target Compound Quantitation Report

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0054.D  
 Lims ID: LCSD 410-218582/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 02-Feb-2022 08:09:22 ALS Bottle#: 0 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: LCSD 410-218582/3-A  
 Misc. Info.: 410-0049546-005  
 Operator ID: jmg00346 Instrument ID: HP21585  
 Method: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\8270\_SIM\_HP21585.m  
 Limit Group: MSSV - 8270D\_E SIM  
 Last Update: 03-Feb-2022 04:47:09 Calib Date: 25-Jan-2022 08:29:00  
 Integrator: Falcon ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Lancaster\ChromData\HP21585\20220125-48994.b\MA0856.D  
 Column 1 : DB-5MS 20m 0.25mm ( 0.25 mm) Det: MS SCAN  
 Process Host: CTX1643

First Level Reviewer: gamblerj

Date: 02-Feb-2022 09:08:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	3.058	3.035	0.067	94	26404	0.2500	0.1465	
2 N-Nitrosodimethylamine	74	3.503	3.459	0.044	70	36587	0.2500	0.2010	
3 Bis(2-chloroethyl)ether	93	6.602	6.581	0.021	89	66375	0.2500	0.2455	
* 4 1,4-Dichlorobenzene-d4	152	6.952	6.952	0.000	85	60755	0.2500	0.2500	
* 5 Naphthalene-d8	136	8.869	8.869	0.000	92	189719	0.2500	0.2500	
6 Naphthalene	128	8.910	8.910	0.000	94	142482	0.2500	0.1702	
8 2-Methylnaphthalene	142	10.007	10.007	0.000	96	101282	0.2500	0.1763	
\$ 9 1-Methylnaphthalene-d10	152	10.105	10.105	0.000	99	89011	0.2500	0.1819	
10 1-Methylnaphthalene	142	10.166	10.166	0.000	98	101850	0.2500	0.1830	
* 13 Acenaphthene-d10	164	11.657	11.658	-0.001	92	138232	0.2500	0.2500	
19 Hexachlorobenzene	284	13.050	13.050	-0.001	89	56509	0.2500	0.1880	
* 20 Phenanthrene-d10	188	13.550	13.550	0.000	96	291378	0.2500	0.2500	
21 Phenanthrene	178	13.581	13.581	0.000	100	279989	0.2500	0.2192	
\$ 24 Fluoranthene-d10 (Surr)	212	15.208	15.212	-0.005	96	353649	0.2500	0.2422	
* 29 Chrysene-d12	240	17.614	17.620	-0.006	70	410625	0.2500	0.2500	
31 Bis(2-ethylhexyl) phthalate	149	17.760	17.765	-0.005	96	162246	0.2500	0.1976	
33 Benzo[b]fluoranthene	252	19.463	19.467	0.003	100	447581	0.2500	0.2198	
\$ 36 Benzo(a)pyrene-d12 (Surr)	264	19.954	19.966	-0.005	97	352430	0.2500	0.2286	
37 Benzo[a]pyrene	252	19.992	20.004	-0.005	100	436675	0.2500	0.2211	
* 38 Perylene-d12	264	20.092	20.089	0.003	97	443314	0.2500	0.2500	
40 Indeno[1,2,3-cd]pyrene	276	21.751	21.749	0.002	97	259284	0.2500	0.1393	M
41 Dibenz(a,h)anthracene	278	21.794	21.799	0.003	90	295284	0.2500	0.1421	

## QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

MSS\_RVSIM\_IS\_00022

Amount Added: 10.00

Units: uL

Run Reagent

Data File: \\chromfs\Lancaster\ChromData\HP21585\20220202-49546.b\MB0054.D

Injection Date: 02-Feb-2022 08:09:22

Instrument ID: HP21585

Operator ID: jmg00346

Lims ID: LCSD 410-218582/3-A

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

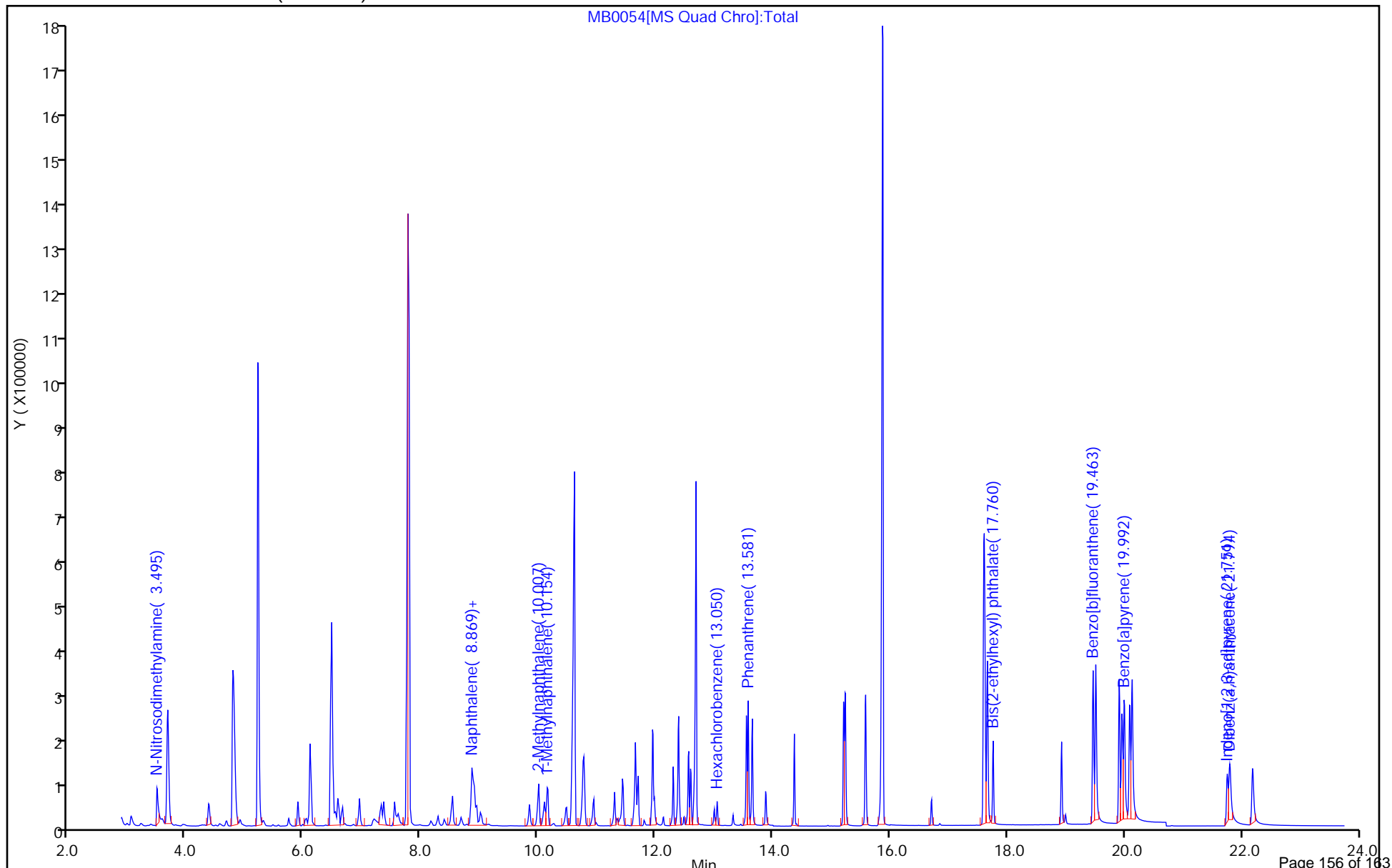
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8270\_SIM\_HP21585

Limit Group: MSSV - 8270D\_E SIM

Column: DB-5MS 20m 0.25mm (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-70640-1

SDG No.: \_\_\_\_\_

Instrument ID: HP21585 Start Date: 01/25/2022 05:27

Analysis Batch Number: 217423 End Date: 01/25/2022 15:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-217423/1		01/25/2022 05:27	1	MA0850.D	DB-5MS 30m 0.25 0.25 (mm)
ICIS 410-217423/2		01/25/2022 05:48	1	MA0851.D	DB-5MS 30m 0.25 0.25 (mm)
IC 410-217423/3		01/25/2022 06:30	1	MA0852.D	DB-5MS 30m 0.25 0.25 (mm)
IC 410-217423/4		01/25/2022 06:59	1	MA0853.D	DB-5MS 30m 0.25 0.25 (mm)
IC 410-217423/5		01/25/2022 07:29	1	MA0854.D	DB-5MS 30m 0.25 0.25 (mm)
IC 410-217423/6		01/25/2022 07:59	1	MA0855.D	DB-5MS 30m 0.25 0.25 (mm)
IC 410-217423/7		01/25/2022 08:29	1	MA0856.D	DB-5MS 30m 0.25 0.25 (mm)
ICVL 410-217423/8		01/25/2022 08:58	1		DB-5MS 30m 0.25 0.25 (mm)
ICV 410-217423/9		01/25/2022 09:28	1	MA0858.D	DB-5MS 30m 0.25 0.25 (mm)
ICV 410-217423/10		01/25/2022 09:58	1	MA0859.D	DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		01/25/2022 13:20	1		DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		01/25/2022 13:49	1		DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		01/25/2022 14:19	1		DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		01/25/2022 14:49	1		DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		01/25/2022 15:19	1		DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		01/25/2022 15:48	1		DB-5MS 30m 0.25 0.25 (mm)

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins Lancaster Laboratories Env, Job No.: 410-70640-1

SDG No.: \_\_\_\_\_

Instrument ID: HP21585Start Date: 02/02/2022 06:01Analysis Batch Number: 219961End Date: 02/02/2022 14:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 410-219961/1		02/02/2022 06:01	1	MB0050.D	DB-5MS 30m 0.25 0.25 (mm)
CCVIS 410-219961/2		02/02/2022 06:20	1	MB0051.D	DB-5MS 30m 0.25 0.25 (mm)
MB 410-218582/1-A		02/02/2022 07:09	1	MB0052.D	DB-5MS 30m 0.25 0.25 (mm)
LCS 410-218582/2-A		02/02/2022 07:39	1	MB0053.D	DB-5MS 30m 0.25 0.25 (mm)
LCSD 410-218582/3-A		02/02/2022 08:09	1	MB0054.D	DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		02/02/2022 08:39	1		DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		02/02/2022 12:37	10		DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		02/02/2022 13:07	1		DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		02/02/2022 13:37	1		DB-5MS 30m 0.25 0.25 (mm)
410-70640-1	356023 - EB1	02/02/2022 14:07	1	MB0066.D	DB-5MS 30m 0.25 0.25 (mm)
ZZZZZ		02/02/2022 14:37	1		DB-5MS 30m 0.25 0.25 (mm)

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-70640-1

SDG No.: \_\_\_\_\_

Batch Number: 218582Batch Start Date: 01/27/22 17:10Batch Analyst: Duquette, Laura CBatch Method: 3510CBatch End Date: 01/27/22 22:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	DensityAcc	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH
MB 410-218582/1		3510C, 8270E SIM		n/a	250 mL	1 mL	n/a SU	>11 SU	<2 SU
LCS 410-218582/2		3510C, 8270E SIM		n/a	250 mL	1 mL	n/a SU	>11 SU	<2 SU
LCS 410-218582/3		3510C, 8270E SIM		n/a	250 mL	1 mL	n/a SU	>11 SU	<2 SU
410-70640-A-1	356023 - EB1	3510C, 8270E SIM	T	n/a	250 mL	1 mL	n/a SU	>11 SU	<2 SU

Lab Sample ID	Client Sample ID	Method Chain	Basis	CUPerformed	OP_MINIBNA_SS 00053	OP_SIMLCS_MS 00055	AnalysisComment		
MB 410-218582/1		3510C, 8270E SIM		N	1 mL		tap h2o		
LCS 410-218582/2		3510C, 8270E SIM		N	1 mL	0.25 mL	tap h2o		
LCS 410-218582/3		3510C, 8270E SIM		N	1 mL	0.25 mL	tap h2o		
410-70640-A-1	356023 - EB1	3510C, 8270E SIM	T	N	1 mL		clear		

Batch Notes	
Balance ID	25996
Analyst ID - Extraction	40256
Analyst ID - Spike Analyst	40256
Analyst ID - Spike Witness Analyst	28104
Acid Used for pH Adjustment ID	h2so4 212463
Base Used to Adjust pH ID	naoh 46F80
Prep Solvent ID	mecl2 216836
Prep Solvent Volume Used	90 mL
Na2SO4 ID	22026A
Analyst ID - Concentration	40256
Equipment ID - Concentration 1	rvap 4 3
Concentration 1 Corrected Temperature	80 Degrees C

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270E SIM

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins Lancaster Laboratorie Job No.: 410-70640-1

SDG No.: \_\_\_\_\_

Batch Number: 218582 Batch Start Date: 01/27/22 17:10 Batch Analyst: Duquette, Laura C

Batch Method: 3510C Batch End Date: 01/27/22 22:48

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents





# Login Sample Receipt Checklist

Client: Pace Analytical Services, LLC

Job Number: 410-70640

**Login Number: 70640**

**List Source: Eurofins Lancaster Laboratories Env, LI**

**List Number: 1**

**Creator: Hess, Anna**

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (<math>\leq 6^{\circ}\text{C}</math>, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (<math>\leq 6^{\circ}\text{C}</math>, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	

**ATTACHMENT A-4**  
Chemist Data Review - LTM 2022

**CATEGORY A REVIEW REPORT  
JANUARY 2022 GROUNDWATER SAMPLING  
MOHONK ROAD INDUSTRIAL PLANT  
HIGH FALLS, NEW YORK**

**1.0 INTRODUCTION**

Groundwater samples were collected in January 2022 at Mohonk Road Industrial Plant in High Falls, New York, and analyzed by Pace Analytical Services located in Melville, New York, and Eurofins Lancaster Laboratories Env (ELLE) in Lancaster, Pennsylvania. Samples were analyzed by one or more of the following United States Environmental Protection Agency (USEPA) methods:

- Volatile Organic Compounds (VOCs) by Method 8260C
- 1,4-Dioxane by Method 8270E-SIM

Results were reported in the following sample delivery groups (SDGs):

- 70201589
- 70201669

Sample event information included in this chemistry review is presented in the following Tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

A summary of table notes applicable to Tables 1, 2, and 3 is presented just before Table 1.

Laboratory deliverables included:

- Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Laboratory Control Samples (LCS)
- Matrix Spike and Matrix Spike Duplicate (MS/MSD) (as applicable)
- Field Duplicates (as applicable)
- Surrogates (as applicable)
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit

UJ = target analyte is not detected, value is estimated

J+ = Result is estimated, with a high bias

Results are interpreted to be usable as reported by the laboratory or as qualified in the following section.

## 2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review the data meets the data quality objectives.

### VOCs by 8260C

#### Laboratory Control Samples (LCS)

- The LCS/LCSD percent recovery for trans-1,3-dichloropropene (67) was less than project limits. Reporting limits for trans-1,3-dichloropropene in all samples were qualified estimated (UJ). Qualified results are listed in Table 3 with reason code LCSL.

#### Matrix Spike and Matrix Spike Duplicate (MS/MSD)

- The MS/MSD associated with sample 356023 – MW10B had percent recoveries for 1,2-dibromo-3-chloropropane (61/65) and trans-1,3-dichloropropene (62/64) that were less than project limits. The associated sample is non-detect for both analytes. Reporting limits were qualified estimated (UJ), and qualified results are listed in Table 3 with reason code MSL.
- The MS/MSD associated with sample 356023 – ERT4 had percent recoveries for 1,1-dichloroethane (144/153), 1,2-dichloroethane (136/140), chloroform (137/144), and cis-1,2-dichloroethene (136/141) that were greater than projects limits. Results were qualified estimated with potential high bias (J+) and are included in Table 3 with reason code MSH.

### **Reference:**

NYSDEC, 2005. "Analytical Services Protocols"; July 2005.

NYSDEC, 2010. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; DER-10; Division of Environmental Remediation; May 2010.

USEPA, 2014. "Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B and 8260C"; HW-24, Revision 4; USEPA Region II Hazardous Waste Support Section; September 2014.

USEPA, 2010. "Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D"; HW-22, Revision 5; USEPA Region II Hazardous Waste Support Branch; December 2010.

Data Validator: Casey Cormier



Date: March 4, 2022

Reviewed by: Julie Ricardi



Date: March 7, 2022

**Standard Table Notes:**

Sample Type (QC Code)

FS – field sample  
FD – field duplicate  
TB – trip blank  
EB – equipment blank  
FB – field blank

Matrix

GW – ground water  
BW – blank water  
TW – tap water  
SV – soil vapor  
SED - sediment

Units

mg/L – milligrams per liter  
ng/L – nanograms per liter  
µg/L – micrograms per liter  
mg/kg – milligrams per kilogram  
µg/kg – micrograms per kilogram  
µg/m<sup>3</sup> – micrograms per cubic meter

Qualifiers

U – not detected above quantitation limit  
J – estimated quantity  
J+ - estimated quantity, biased high  
J- - estimated quantity, biased low  
R – data unusable

Fraction

T – total  
D – dissolved  
N – normal

Qualification Reason Codes

BL1 – method blank qualifier  
BL2 – field or trip blank qualifier  
CCV – continuing calibration verification recovery outside limits  
CCV%D – continuing calibration verification percent difference exceeds goal  
CCVRRF – continuing calibration relative response factor low  
CI – chromatographic interference present  
DCPD – dual column percent difference exceeds limit  
E – result exceeds calibration range  
FD – field duplicate precision goal exceeded  
FP – false positive interference  
HT – holding time for prep or analysis exceeded  
HTG – holding time for prep or analysis grossly exceeded  
ICV – initial calibration verification recovery outside limit  
ICVRRF – initial calibration verification relative response factor low  
ICVRS D – initial calibration verification % relative standard deviation exceeds goal  
ISH – internal standard response greater than limit  
ISL – internal standard response less than limit  
LCSH – laboratory control sample recovery high  
LCSL – laboratory control sample recovery low  
LCSRPD – laboratory control sample/duplicate relative % difference precision goal exceeded  
LD – lab duplicate precision goal exceeded  
MSH – matrix spike and/or MS duplicate recovery high  
MSL – matrix spike and/or MS duplicate recovery low  
MSRPD – matrix spike/duplicate relative % difference precision goal exceeded  
N – analyte identification is not certain  
PEM – performance evaluation mixture exceeds limit  
PM – sample percent moisture exceeds EPA guideline  
SD – serial dilution result exceeds percent difference limit  
SP – sample preservation/collection does not meet method requirement  
SSH – surrogate recovery high  
SSL – surrogate recovery low  
TD – dissolved concentration exceeds total

TABLE 1 - SUMMARY OF SAMPLES AND ANALYTICAL METHODS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

Location	Field Sample Id	Media	Field Sample Date	Method Class	VOCs	SVOCs
				Analysis Method	EPA 8260C/5030C	SW8270E SIM
				Fraction	N	N
				QC Code	Count	Count
ERT-1	356023 - ERT1	GW	1/19/2022	FS	48	1
ERT-4	356023 - ERT4	GW	1/20/2022	FS	48	1
MW-10B	356023 - DUP-01	GW	1/19/2022	FD	48	1
MW-10B	356023 - MW10B	GW	1/19/2022	FS	48	1
MW-11B	356023 - MW11B	GW	1/20/2022	FS	48	1
MW-12B	356023 - MW12B	GW	1/20/2022	FS	48	1
MW-14B	356023 - MW14B	GW	1/18/2022	FS	48	1
MW-15B	356023 - MW15B	GW	1/19/2022	FS	48	1
MW-16	356023 - MW16	GW	1/19/2022	FS	48	1
MW-1B	356023 - MW1B	GW	1/20/2022	FS	48	1
MW-4	356023 - MW4	GW	1/20/2022	FS	48	1
MW-5B	356023 - MW5B	GW	1/20/2022	FS	48	1
MW-5R	356023 - MW5R	GW	1/19/2022	FS	48	1
MW-6B	356023 - MW6B	GW	1/20/2022	FS	48	1
MW-7R	356023 - MW7R	GW	1/19/2022	FS	48	1
MW-8B	356023 - MW8B	GW	1/18/2022	FS	48	1
MW-9B	356023 - MW9B	GW	1/19/2022	FS	48	1
QC	356023 - EB1	BW	1/21/2022	EB	48	1
QC	356023 - TB1	BW	1/20/2022	TB	48	



TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	ERT-1	ERT-4	MW-10B	
			Field Sample Date	1/19/2022	1/20/2022	1/19/2022	
			Field Sample Id	356023 - ERT1	356023 - ERT4	356023 - DUP-01	
			Qc Code	FS	FS	FD	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	47.7	1530	1 U	U
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U	2.2	1 U	U
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	12.4	46.8 J+	1 U	U
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	26.3	173	1 U	U
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U	3.2 J+	1 U	U
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U	5 U	5 U	U
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U	5 U	5 U	U
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U	U
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	Acetone	ug/L	5 U	5 U	5 U	U
EPA 8260C/5030C	N	Benzene	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	Bromoform	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U	1 U	1 U	U
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U	1 U	1 U	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	ERT-1	ERT-4	MW-10B	
			Field Sample Date	1/19/2022	1/20/2022	1/19/2022	
			Field Sample Id	356023 - ERT1	356023 - ERT4	356023 - DUP-01	
			Qc Code	FS	FS	FD	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U	1.1	1 U	1 U
EPA 8260C/5030C	N	Chloroform	ug/L	1 U	1.3 J+	1 U	1 U
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U	4 J+	1 U	1 U
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Styrene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Toluene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ	1 UJ	1 UJ	1 UJ
EPA 8260C/5030C	N	Trichloroethene	ug/L	6.1	120	1 U	1 U
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U	3 U	3 U	3 U
SW8270E SIM	N	1,4-Dioxane	ug/l	3	1.9	0.3 U	0.3 U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
CATEGORY A REVIEW REPORT  
JANUARY 2022 GROUNDWATER SAMPLING  
MOHONK ROAD INDUSTRIAL PLANT  
HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	MW-10B	MW-11B	MW-12B	
			Field Sample Date	1/19/2022	1/20/2022	1/20/2022	
			Field Sample Id	356023 - MW10B	356023 - MW11B	356023 - MW12B	
			Qc Code	FS	FS	FS	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U	1 U	2.5	
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1 U	3.5	8.9	
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U	7	16.9	
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 UJ	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U	5 U	5 U	
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U	5 U	5 U	
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U	
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Acetone	ug/L	5 U	5 U	5 U	
EPA 8260C/5030C	N	Benzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Bromoform	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U	1 U	1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
CATEGORY A REVIEW REPORT  
JANUARY 2022 GROUNDWATER SAMPLING  
MOHONK ROAD INDUSTRIAL PLANT  
HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	MW-10B	MW-11B	MW-12B	
			Field Sample Date	1/19/2022	1/20/2022	1/20/2022	
			Field Sample Id	356023 - MW10B	356023 - MW11B	356023 - MW12B	
			Qc Code	FS	FS	FS	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroform	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Styrene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Toluene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ	1 UJ	1 UJ	1 UJ
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U	1.1	2.9	1 U
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U	3 U	3 U	3 U
SW8270E SIM	N	1,4-Dioxane	ug/l	0.3 U	1.2	2.3	1 U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589
			Location	MW-14B	MW-15B	MW-16
			Field Sample Date	1/18/2022	1/19/2022	1/19/2022
			Field Sample Id	356023 - MW14B	356023 - MW15B	356023 - MW16
			Qc Code	FS	FS	FS
Analysis Method	Fraction	Parameter	Units	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U	10.2	3.2
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1.8	9.1	1.3
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U	19	6.6
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U	5 U	5 U
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U	5 U	5 U
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Acetone	ug/L	5 U	5 U	5 U
EPA 8260C/5030C	N	Benzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromoform	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U	1 U	1 U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	MW-14B	MW-15B	MW-16	
			Field Sample Date	1/18/2022	1/19/2022	1/19/2022	
			Field Sample Id	356023 - MW14B	356023 - MW15B	356023 - MW16	
			Qc Code	FS	FS	FS	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroform	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Styrene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Toluene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ	1 UJ	1 UJ	1 UJ
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U	1.4	1 U	1 U
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U	3 U	3 U	3 U
SW8270E SIM	N	1,4-Dioxane	ug/l	1.5	2.1	0.76	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	MW-1B	MW-4	MW-5B	
			Field Sample Date	1/20/2022	1/20/2022	1/20/2022	
			Field Sample Id	356023 - MW1B	356023 - MW4	356023 - MW5B	
			Qc Code	FS	FS	FS	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U	653	608	
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1 U	28.8	15.8	
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U	144	111	
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U	1.6	1.5	
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U	5 U	5 U	
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U	5 U	5 U	
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U	
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Acetone	ug/L	5 U	5 U	5 U	
EPA 8260C/5030C	N	Benzene	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Bromoform	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U	1 U	1 U	
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U	1 U	1 U	

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	MW-1B	MW-4	MW-5B	
			Field Sample Date	1/20/2022	1/20/2022	1/20/2022	
			Field Sample Id	356023 - MW1B	356023 - MW4	356023 - MW5B	
			Qc Code	FS	FS	FS	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroform	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U	8.3	1.1	1 U
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Styrene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Toluene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ	1 UJ	1 UJ	1 UJ
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U	253	40.5	1 U
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U	3 U	3 U	3 U
SW8270E SIM	N	1,4-Dioxane	ug/l	0.3 U	1.4	2	



TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589
			Location	MW-5R	MW-6B	MW-7R
			Field Sample Date	1/19/2022	1/20/2022	1/19/2022
			Field Sample Id	356023 - MW5R	356023 - MW6B	356023 - MW7R
			Qc Code	FS	FS	FS
Analysis Method	Fraction	Parameter	Units	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	55.6	4	57.7
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	6.9	1 U	50
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	27.9	1.8	13.2
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U	5 U	5 U
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U	5 U	5 U
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Acetone	ug/L	5 U	5 U	5 U
EPA 8260C/5030C	N	Benzene	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromoform	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U	1 U	1 U
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U	1 U	1 U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	MW-5R	MW-6B	MW-7R	
			Field Sample Date	1/19/2022	1/20/2022	1/19/2022	
			Field Sample Id	356023 - MW5R	356023 - MW6B	356023 - MW7R	
			Qc Code	FS	FS	FS	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroform	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U	1 U	2	1 U
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Styrene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Toluene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ	1 UJ	1 UJ	1 UJ
EPA 8260C/5030C	N	Trichloroethene	ug/L	6.4	1 U	1.6	1 U
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U	3 U	3 U	3 U
SW8270E SIM	N	1,4-Dioxane	ug/l	1.8	0.48	1.5	1.5

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	MW-8B	MW-9B	QC	
			Field Sample Date	1/18/2022	1/19/2022	1/20/2022	
			Field Sample Id	356023 - MW8B	356023 - MW9B	356023 - TB1	
			Qc Code	FS	FS	TB	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	2-Butanone	ug/L	5 U	5 U	5 U	5 U
EPA 8260C/5030C	N	2-Hexanone	ug/L	5 U	5 U	5 U	5 U
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5 U	5 U	5 U	5 U
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Acetone	ug/L	5 U	5 U	5 U	5 U
EPA 8260C/5030C	N	Benzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromoform	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Bromomethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1 U	1 U	1 U	1 U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201589	70201589	70201589	
			Location	MW-8B	MW-9B	QC	
			Field Sample Date	1/18/2022	1/19/2022	1/20/2022	
			Field Sample Id	356023 - MW8B	356023 - MW9B	356023 - TB1	
			Qc Code	FS	FS	TB	
Analysis Method	Fraction	Parameter	Units	Final	Final	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloroform	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Chloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Methylene chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Styrene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Toluene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1 UJ	1 UJ	1 U	1 U
EPA 8260C/5030C	N	Trichloroethene	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1 U	1 U	1 U	1 U
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3 U	3 U	3 U	3 U
SW8270E SIM	N	1,4-Dioxane	ug/l	0.53	4.4		

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201669	
			Location	QC	
			Field Sample Date	1/21/2022	
			Field Sample Id	356023 - EB1	
			Qc Code	EB	
Analysis Method	Fraction	Parameter	Units	Final	Final
EPA 8260C/5030C	N	1,1,1-Trichloroethane	ug/L	1	U
EPA 8260C/5030C	N	1,1,2,2-Tetrachloroethane	ug/L	1	U
EPA 8260C/5030C	N	1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	ug/L	1	U
EPA 8260C/5030C	N	1,1,2-Trichloroethane	ug/L	1	U
EPA 8260C/5030C	N	1,1-Dichloroethane	ug/L	1	U
EPA 8260C/5030C	N	1,1-Dichloroethene	ug/L	1	U
EPA 8260C/5030C	N	1,2,4-Trichlorobenzene	ug/L	1	U
EPA 8260C/5030C	N	1,2-Dibromo-3-chloropropane	ug/L	1	U
EPA 8260C/5030C	N	1,2-Dibromoethane	ug/L	1	U
EPA 8260C/5030C	N	1,2-Dichlorobenzene	ug/L	1	U
EPA 8260C/5030C	N	1,2-Dichloroethane	ug/L	1	U
EPA 8260C/5030C	N	1,2-Dichloropropane	ug/L	1	U
EPA 8260C/5030C	N	1,3-Dichlorobenzene	ug/L	1	U
EPA 8260C/5030C	N	1,4-Dichlorobenzene	ug/L	1	U
EPA 8260C/5030C	N	2-Butanone	ug/L	5	U
EPA 8260C/5030C	N	2-Hexanone	ug/L	5	U
EPA 8260C/5030C	N	4-Methyl-2-pentanone	ug/L	5	U
EPA 8260C/5030C	N	Acetic acid, methyl ester	ug/L	1	U
EPA 8260C/5030C	N	Acetone	ug/L	5	U
EPA 8260C/5030C	N	Benzene	ug/L	1	U
EPA 8260C/5030C	N	Bromodichloromethane	ug/L	1	U
EPA 8260C/5030C	N	Bromoform	ug/L	1	U
EPA 8260C/5030C	N	Bromomethane	ug/L	1	U
EPA 8260C/5030C	N	Carbon disulfide	ug/L	1	U
EPA 8260C/5030C	N	Carbon tetrachloride	ug/L	1	U

TABLE 2 - SUMMARY OF ANALYTICAL RESULTS  
 CATEGORY A REVIEW REPORT  
 JANUARY 2022 GROUNDWATER SAMPLING  
 MOHONK ROAD INDUSTRIAL PLANT  
 HIGH FALLS, NEW YORK

			Lab SDG	70201669	
			Location	QC	
			Field Sample Date	1/21/2022	
			Field Sample Id	356023 - EB1	
			Qc Code	EB	
Analysis Method	Fraction	Parameter	Units	Final	Final
EPA 8260C/5030C	N	Chlorobenzene	ug/L	1	U
EPA 8260C/5030C	N	Chloroethane	ug/L	1	U
EPA 8260C/5030C	N	Chloroform	ug/L	1	U
EPA 8260C/5030C	N	Chloromethane	ug/L	1	U
EPA 8260C/5030C	N	cis-1,2-Dichloroethene	ug/L	1	U
EPA 8260C/5030C	N	cis-1,3-Dichloropropene	ug/L	1	U
EPA 8260C/5030C	N	Cyclohexane	ug/L	1	U
EPA 8260C/5030C	N	Dibromochloromethane	ug/L	1	U
EPA 8260C/5030C	N	Dichlorodifluoromethane	ug/L	1	U
EPA 8260C/5030C	N	Ethylbenzene	ug/L	1	U
EPA 8260C/5030C	N	Isopropylbenzene	ug/L	1	U
EPA 8260C/5030C	N	Methyl cyclohexane	ug/L	1	U
EPA 8260C/5030C	N	Methyl Tertbutyl Ether	ug/L	1	U
EPA 8260C/5030C	N	Methylene chloride	ug/L	1	U
EPA 8260C/5030C	N	Styrene	ug/L	1	U
EPA 8260C/5030C	N	Tetrachloroethene	ug/L	1	U
EPA 8260C/5030C	N	Toluene	ug/L	1	U
EPA 8260C/5030C	N	trans-1,2-Dichloroethene	ug/L	1	U
EPA 8260C/5030C	N	trans-1,3-Dichloropropene	ug/L	1	U
EPA 8260C/5030C	N	Trichloroethene	ug/L	1	U
EPA 8260C/5030C	N	Trichlorofluoromethane	ug/L	1	U
EPA 8260C/5030C	N	Vinyl chloride	ug/L	1	U
EPA 8260C/5030C	N	Xylenes, Total	ug/L	3	U
SW8270E SIM	N	1,4-Dioxane	ug/l	0.3	U

TABLE 3 - SUMMARY OF QUALIFICATION ACTIONS  
CATEGORY A REVIEW REPORT  
JANUARY 2022 GROUNDWATER SAMPLING  
MOHONK ROAD INDUSTRIAL PLANT  
HIGH FALLS, NEW YORK

Lab SDG	Analysis Method	Loc Name	Lab Sample ID	Field Sample Date	Field Sample ID	Fraction	Parameter	Lab Result	Lab Qualifier	Final Result	Final Qualifier	Val Reason Code	Units
70201589	EPA 8260C/5030C	MW-10B	495319	1/19/2022	356023 - DUP-01	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-1B	495328	1/20/2022	356023 - MW1B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-4	495329	1/20/2022	356023 - MW4	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-5B	495330	1/20/2022	356023 - MW5B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-16	495327	1/19/2022	356023 - MW16	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-5R	495331	1/19/2022	356023 - MW5R	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-7R	495333	1/19/2022	356023 - MW7R	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-8B	495334	1/18/2022	356023 - MW8B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-9B	495335	1/19/2022	356023 - MW9B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-6B	495332	1/20/2022	356023 - MW6B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-15B	495326	1/19/2022	356023 - MW15B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-14B	495325	1/18/2022	356023 - MW14B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-12B	495324	1/20/2022	356023 - MW12B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-11B	495323	1/20/2022	356023 - MW11B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	ERT-1	495320	1/19/2022	356023 - ERT1	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-10B	495322	1/19/2022	356023 - MW10B	N	1,2-Dibromo-3-chloropropane	1	U,v3	1	UJ	MSL	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	1,1-Dichloroethane	46.8	M1	46.8	J+	MSH	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	1,2-Dichloroethane	3.2	M1	3.2	J+	MSH	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	Chloroform	1.3	M0,L1	1.3	J+	MSH	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	cis-1,2-Dichloroethene	4	M1	4	J+	MSH	ug/L
70201589	EPA 8260C/5030C	ERT-4	495321	1/20/2022	356023 - ERT4	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL	ug/L
70201589	EPA 8260C/5030C	MW-10B	495322	1/19/2022	356023 - MW10B	N	trans-1,3-Dichloropropene	1	U,L2,v3	1	UJ	LCSL, MSL	ug/L

**CATEGORY A REVIEW REPORT  
JANUARY 2022 GROUNDWATER SAMPLING  
MOHONK ROAD INDUSTRIAL PLANT  
HIGH FALLS, NEW YORK**

**ATTACHMENT A**



# VOCs

## PROJECT CATEGORY A REVIEW RECORD

Project: Mohonk – High Falls NY

Method : SW-846 8260C

Laboratory: Pace Analytical

Date: 12/10/2021

Reviewer: Casey Cormier

SDG(s): 70201589 & 70201669

Review Level  CATEGORY A

1.  **Case Narrative Review and COC/Data Package Completeness** COMMENTS  
Were problems noted?  
  
Were all the samples on the COC analyzed for the requested analyses? **YES** NO (circle one)  
  
Are Field Sample IDs and Locations assigned correctly? **YES** NO (circle one)
2.  **Holding time and Sample Collection**  
All samples were analyzed within the 14 day holding time. **YES** NO (circle one)
3.  **QC Blanks**  
Are method blanks free of contamination? **YES** NO (circle one)  
  
Are Trip blanks free of contamination? **YES** NO (circle one)  
  
Are Rinse blanks free of contamination? YES NO **NA** (circle one)
4.  **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)  
Were MS/MSDs submitted/analyzed? **YES** NO  
  
Were all results within the Region II limits? YES **NO** NA (circle one)  
**The MS/MSDs associated with samples 356023 – MW10B and 356023 – ERT4 reported numerous analytes outside of QC limits for %Rec and RPD.**
5.  **Laboratory Control Sample Results** - Region II (Water and soil 70-130%)  
Were all results were within Region II control limits? YES **NO** (circle one)  
**LCS reported acetone and trichlorofluoromethane %Recs above project limits. All samples ND, no quals.**  
**The LCS %Rec for trans-1,3-dichloropropene was below project limits.**
6.  **Surrogate Recovery** - Region II limits (water 80-120%, soil 70-130%)  
Were all results within Region II limits? **YES** NO (circle one)
7.  **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)  
Were Field Duplicates submitted/analyzed? **YES** NO  
  
Were all results within Region II Limits? **YES** NO NA (circle one)
8.  **Reporting Limits:**  
Were samples analyzed at a dilution? **YES** NO (circle one)  
**In samples 356023 – MW5B and 356023 – MW4, 1,1,1-trichloroethane was ran at a five-fold dilution, elevated RLs are reported**  
**In sample 356023 – ERT4, 1,1,1-trichloroethane and 1,1-dichloroethene were ran at a 20-fold dilution, elevated RLs are reported**
9.  **Electronic Data Review and Edits**  
Does the EDD match the Form Is? **YES** NO (circle one)
10.  **Table Review**  
**Table 1** (Samples and Analytical Methods)  
**Table 2** (Analytical Results)  
**Table 3** (Qualification Actions)  
Were all tables produced and reviewed? **YES** NO (circle one)  
  
**Table 4** (TICs) Did lab report TICs? YES **NO** (circle one)

# 1,4-Dioxane

## PROJECT CATEGORY A REVIEW RECORD

Project: Mohonk – High Falls NY

Method : SW-846 8270E-SIM

Laboratory: Pace Analytical

SDG(s): 70201589 & 70201669

Date: 12/10/2021

Reviewer: Casey Cormier

Review Level  CATEGORY A

1.  **Case Narrative Review and Data Package Completeness** COMMENTS  
Were problems noted? **YES** NO (circle one)  
**MS/MSD associated with sample 356023-ERT4 was received and analyzed by lab, but was not listed on COC**  
Were all the samples on the COC analyzed for the requested analyses? **YES** NO (circle one)  
Are Field Sample IDs and Locations assigned correctly? **YES** NO (circle one)
2.  **Holding time and Sample Collection**  
Were all water samples extracted within the 7 day holding time, and/or soil within 14 days?  
**OK**
3.  **QC Blanks**  
Are method blanks free of contamination? **YES** NO (circle one)  
Are field blanks free of contamination? YES NO **NA** (circle one)
4.  **Laboratory Control Sample Results** (water & soil limits: Lab Limits)  
Were all results within limits? **YES** NO (circle one)
5.  **Matrix Spike** (water & soil limits: Lab Limits; RPD water & soil: Lab Limits)  
Were MS/MSDs submitted/analyzed? **YES** NO  
Were all results were within limits? **YES** NO NA (circle one)
6.  **Surrogate Recovery** (water and soil limits: Lab Limits)  
Were all results within limits? **YES** NO (circle one)  
Were any recoveries < 10%? (Reject fraction compounds if recoveries are < 10%)
7.  **Field Duplicates** (RPD limits = water:50, soil:50)  
Were Field Duplicates submitted/analyzed? **YES** NO  
Were RPDs within criteria. YES NO **NA** (circle one)  
**Both samples ND**
8.  **Reporting Limits:** Were samples analyzed at a dilution? YES **NO** (circle one)
9.  **Electronic Data Review and Edits:** Does the EDD match the Form Is? **YES** NO (circle one)
10.  **Table Review**  
**Table 1** (Samples and Analytical Methods)  
**Table 2** (Analytical Results)  
**Table 3** (Qualification Actions)  
Were all tables produced and reviewed? **YES** NO (circle one)

### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

METHOD BLANK: 1226088

Matrix: Water

Associated Lab Samples: 70201589001, 70201589002, 70201589003, 70201589004, 70201589005, 70201589006, 70201589007, 70201589008, 70201589009, 70201589010, 70201589011, 70201589012, 70201589013, 70201589014, 70201589015, 70201589016, 70201589017, 70201589018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylcyclohexane	ug/L	<1.0	1.0	01/31/22 18:55	
Methylene Chloride	ug/L	<1.0	1.0	01/31/22 18:55	
Styrene	ug/L	<1.0	1.0	01/31/22 18:55	
Tetrachloroethene	ug/L	<1.0	1.0	01/31/22 18:55	v3
Toluene	ug/L	<1.0	1.0	01/31/22 18:55	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	01/31/22 18:55	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/31/22 18:55	v3
Trichloroethene	ug/L	<1.0	1.0	01/31/22 18:55	
Trichlorofluoromethane	ug/L	<1.0	1.0	01/31/22 18:55	
Vinyl chloride	ug/L	<1.0	1.0	01/31/22 18:55	
Xylene (Total)	ug/L	<3.0	3.0	01/31/22 18:55	
1,2-Dichloroethane-d4 (S)	%	100	81-122	01/31/22 18:55	
4-Bromofluorobenzene (S)	%	94	79-118	01/31/22 18:55	
Toluene-d8 (S)	%	96	82-122	01/31/22 18:55	

LABORATORY CONTROL SAMPLE: 1226089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.2	90	72-126	v3
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	70-127	
1,1,2-Trichloroethane	ug/L	50	52.3	105	81-119	
1,1,2-Trichlorotrifluoroethane	ug/L	50	63.8	128	54-133	
1,1-Dichloroethane	ug/L	50	62.4	125	72-126	
1,1-Dichloroethene	ug/L	50	64.8	130	66-133	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	56-141	
1,2-Dibromo-3-chloropropane	ug/L	50	36.2	72	47-133	IH,v3
1,2-Dibromoethane (EDB)	ug/L	50	50.1	100	81-123	
1,2-Dichlorobenzene	ug/L	50	48.2	96	80-117	
1,2-Dichloroethane	ug/L	50	63.9	128	69-134	
1,2-Dichloropropane	ug/L	50	53.2	106	75-125	
1,3-Dichlorobenzene	ug/L	50	48.8	98	82-116	
1,4-Dichlorobenzene	ug/L	50	48.8	98	80-117	
2-Butanone (MEK)	ug/L	50	55.0	110	33-165	
2-Hexanone	ug/L	50	51.5	103	50-128	
4-Methyl-2-pentanone (MIBK)	ug/L	50	56.8	114	62-131	
Acetone	ug/L	50	68.7	137	14-156	v1 Samples ND, no quals
Benzene	ug/L	50	52.7	105	78-117	
Bromodichloromethane	ug/L	50	53.3	107	80-123	IC
Bromoform	ug/L	50	45.4	91	49-138	IH
Bromomethane	ug/L	50	61.5	123	10-143	
Carbon disulfide	ug/L	50	61.9	124	66-133	
Carbon tetrachloride	ug/L	50	46.3	93	64-135	IH

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

LABORATORY CONTROL SAMPLE: 1226089

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorobenzene	ug/L	50	49.4	99	79-117	
Chloroethane	ug/L	50	55.3	111	31-156	
Chloroform	ug/L	50	62.3	125	79-123	L1
Chloromethane	ug/L	50	49.2	98	39-116	
cis-1,2-Dichloroethene	ug/L	50	62.1	124	77-125	
cis-1,3-Dichloropropene	ug/L	50	47.6	95	78-131	
Cyclohexane	ug/L	50	61.1	122	53-130	
Dibromochloromethane	ug/L	50	46.4	93	65-123	
Dichlorodifluoromethane	ug/L	50	63.3	127	13-149	
Ethylbenzene	ug/L	50	49.6	99	79-115	
Isopropylbenzene (Cumene)	ug/L	50	50.9	102	74-118	
Methyl acetate	ug/L	50	58.2	116	10-214	
Methyl-tert-butyl ether	ug/L	50	49.3	99	69-118	
Methylcyclohexane	ug/L	50	49.2	98	63-124	
Methylene Chloride	ug/L	50	62.9	126	67-123	L1
Styrene	ug/L	50	51.2	102	82-121	
Tetrachloroethene	ug/L	50	42.2	84	65-120	v3
Toluene	ug/L	50	52.5	105	80-114	
trans-1,2-Dichloroethene	ug/L	50	61.3	123	74-123	
trans-1,3-Dichloropropene	ug/L	50	33.6	67	73-135	L2,v3 UJ LCSL
Trichloroethene	ug/L	50	51.7	103	79-115	
Trichlorofluoromethane	ug/L	50	65.3	131	51-136	Samples ND, no quals
Vinyl chloride	ug/L	50	54.5	109	49-118	
Xylene (Total)	ug/L	150	152	101	80-118	
1,2-Dichloroethane-d4 (S)	%			98	81-122	
4-Bromofluorobenzene (S)	%			97	79-118	
Toluene-d8 (S)	%			96	82-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226111

1226112

Sample ND for all analytes. Any MS/MSD %Recs greater than limits of 70 - 130 do not require quals

Parameter	Units	70201589003		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result						
1,1,1-Trichloroethane	ug/L	<1.0	50	50	45.1	46.9	90	94	72-123	4	v3	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	50.6	48.7	101	97	64-133	4		
1,1,2-Trichloroethane	ug/L	<1.0	50	50	53.7	50.5	107	101	78-120	6		
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	56.1	67.4	112	135	56-136	18		
1,1-Dichloroethane	ug/L	<1.0	50	50	74.0	69.2	148	138	70-124	7	M1	
1,1-Dichloroethene	ug/L	<1.0	50	50	56.4	70.5	113	141	61-139	22	M1,R1	
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	47.5	44.5	95	89	53-138	7		
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	30.3	32.5	61	65	32-137	7	IH,v3 UJ MSL	
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	47.3	47.6	95	95	78-121	1		
1,2-Dichlorobenzene	ug/L	<1.0	50	50	48.5	44.2	97	88	75-120	9		
1,2-Dichloroethane	ug/L	<1.0	50	50	73.2	66.4	146	133	58-138	10	M1	
1,2-Dichloropropane	ug/L	<1.0	50	50	56.8	53.2	114	106	74-122	7		
1,3-Dichlorobenzene	ug/L	<1.0	50	50	49.1	45.1	98	90	78-119	8		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226111			1226112			Sample ND for all analytes. Any MS/MSD %Recs greater than limits of 70 - 130 do not require quals						
Parameter	Units	70201589003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,4-Dichlorobenzene	ug/L	<1.0	50	50	48.3	44.8	97	90	76-118	7		
2-Butanone (MEK)	ug/L	<5.0	50	50	61.5	57.8	123	116	33-148	6		
2-Hexanone	ug/L	<5.0	50	50	48.8	47.0	98	94	49-124	4		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	56.4	53.3	113	107	60-136	6		
Acetone	ug/L	<5.0	50	50	74.4	72.8	149	146	35-112	2	M1, v1	
Benzene	ug/L	<1.0	50	50	56.7	53.4	113	107	70-130	6		
Bromodichloromethane	ug/L	<1.0	50	50	52.9	53.5	106	107	74-122	1	IC	
Bromoform	ug/L	<1.0	50	50	40.1	42.2	80	84	39-139	5	IH	
Bromomethane	ug/L	<1.0	50	50	37.3	44.8	75	90	10-130	18		
Carbon disulfide	ug/L	<1.0	50	50	54.2	53.6	108	107	60-129	1		
Carbon tetrachloride	ug/L	<1.0	50	50	44.5	47.1	89	94	56-143	6	IH	
Chlorobenzene	ug/L	<1.0	50	50	50.4	46.7	101	93	74-122	8		
Chloroethane	ug/L	<1.0	50	50	66.8	63.0	134	126	35-146	6		
Chloroform	ug/L	<1.0	50	50	74.3	68.1	149	136	71-129	9	M0	
Chloromethane	ug/L	<1.0	50	50	55.7	52.4	111	105	29-112	6		
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	72.0	67.1	144	134	73-129	7	M1	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	46.0	46.3	92	93	67-130	1		
Cyclohexane	ug/L	<1.0	50	50	73.1	68.7	146	137	46-146	6		
Dibromochloromethane	ug/L	<1.0	50	50	41.9	43.5	84	87	55-126	4		
Dichlorodifluoromethane	ug/L	<1.0	50	50	73.4	69.4	147	139	10-123	6	M1	
Ethylbenzene	ug/L	<1.0	50	50	50.5	46.9	101	94	70-126	7		
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	53.1	49.6	106	99	68-127	7		
Methyl acetate	ug/L	<1.0	50	50	57.3	54.4	115	109	10-260	5		
Methyl-tert-butyl ether	ug/L	<1.0	50	50	52.6	53.2	105	106	60-140	1		
Methylcyclohexane	ug/L	<1.0	50	50	55.5	55.2	111	110	66-135	1		
Methylene Chloride	ug/L	<1.0	50	50	71.6	66.1	143	132	69-117	8	M0	
Styrene	ug/L	<1.0	50	50	51.5	47.6	103	95	79-123	8		
Tetrachloroethene	ug/L	<1.0	50	50	41.6	38.7	83	77	64-124	7	v3	
Toluene	ug/L	<1.0	50	50	55.9	52.5	112	105	76-123	6		
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	71.9	67.1	144	134	69-127	7	M1	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	31.2	32.1	62	64	61-130	3	v3	UJ MSL
Trichloroethene	ug/L	<1.0	50	50	55.8	52.1	112	104	73-125	7		
Trichlorofluoromethane	ug/L	<1.0	50	50	75.6	72.5	151	145	59-129	4	M1	
Vinyl chloride	ug/L	<1.0	50	50	62.5	59.4	125	119	33-127	5		
Xylene (Total)	ug/L	<3.0	150	150	153	142	102	95	78-123	7		
1,2-Dichloroethane-d4 (S)	%						99	100	81-122			
4-Bromofluorobenzene (S)	%						97	97	79-118			
Toluene-d8 (S)	%						96	96	82-122			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226113			1226114									
Parameter	Units	70201589017 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1,1-Trichloroethane	ug/L	1530	50	50	2560	2780	2050	2490	72-123	8	M1, v3	

Sample conc >> 4X spike conc, no quals

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HIGH FALLS NY 1/19  
Pace Project No.: 70201589

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1226113			1226114								
Parameter	Units	70201589017 Result	MS	MSD	MS	MSD	MS	MSD	% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	52.3	56.0	105	112	64-133	7	
1,1,2-Trichloroethane	ug/L	2.2	50	50	54.2	56.2	104	108	78-120	4	
1,1,2-Trichlorotrifluoroethane	ug/L	<1.0	50	50	69.3	55.5	139	111	56-136	22	M1,R1 ND, no quals
1,1-Dichloroethane	ug/L	46.8	50	50	119	124	144	153	70-124	4	M1 J+ MSH
1,1-Dichloroethene	ug/L	173	50	50	299	241	251	135	61-139	22	M1,R1 ND, no quals
1,2,4-Trichlorobenzene	ug/L	<1.0	50	50	45.8	49.3	92	99	53-138	7	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	50	50	47.6	52.8	95	106	32-137	10	IH,v3
1,2-Dibromoethane (EDB)	ug/L	<1.0	50	50	57.5	60.7	115	121	78-121	5	
1,2-Dichlorobenzene	ug/L	<1.0	50	50	45.7	49.3	91	99	75-120	7	
1,2-Dichloroethane	ug/L	3.2	50	50	71.1	73.1	136	140	58-138	3	M1 J+ MSH
1,2-Dichloropropane	ug/L	<1.0	50	50	54.2	56.8	108	114	74-122	5	
1,3-Dichlorobenzene	ug/L	<1.0	50	50	46.1	50.0	92	100	78-119	8	
1,4-Dichlorobenzene	ug/L	<1.0	50	50	45.8	49.3	92	99	76-118	7	
2-Butanone (MEK)	ug/L	<5.0	50	50	62.4	62.8	125	126	33-148	1	
2-Hexanone	ug/L	<5.0	50	50	49.9	49.7	100	99	49-124	0	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	50	50	56.4	56.8	113	114	60-136	1	
Acetone	ug/L	<5.0	50	50	76.4	76.9	153	154	35-112	1	M1,v1 ND, no quals
Benzene	ug/L	<1.0	50	50	52.4	55.1	105	110	70-130	5	
Bromodichloromethane	ug/L	<1.0	50	50	67.0	74.5	134	149	74-122	11	IC,M1 ND, no quals
Bromoform	ug/L	<1.0	50	50	56.1	64.0	112	128	39-139	13	IH
Bromomethane	ug/L	<1.0	50	50	52.5	53.7	105	107	10-130	2	
Carbon disulfide	ug/L	<1.0	50	50	52.9	55.0	106	110	60-129	4	
Carbon tetrachloride	ug/L	<1.0	50	50	73.8	80.1	148	160	56-143	8	IH,M1 ND, no quals
Chlorobenzene	ug/L	<1.0	50	50	47.1	49.4	94	99	74-122	5	
Chloroethane	ug/L	1.1	50	50	63.8	65.4	125	129	35-146	3	
Chloroform	ug/L	1.3	50	50	70.0	73.4	137	144	71-129	5	M0 J+ MSH
Chloromethane	ug/L	<1.0	50	50	54.0	57.0	108	114	29-112	5	M1
cis-1,2-Dichloroethene	ug/L	4.0	50	50	72.0	74.6	136	141	73-129	4	M1 J+ MSH
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	58.4	63.9	117	128	67-130	9	
Cyclohexane	ug/L	<1.0	50	50	73.9	78.6	148	157	46-146	6	M1 ND, no quals
Dibromochloromethane	ug/L	<1.0	50	50	58.0	64.2	116	128	55-126	10	M1
Dichlorodifluoromethane	ug/L	<1.0	50	50	69.6	71.3	139	143	10-123	2	M1 ND, no quals
Ethylbenzene	ug/L	<1.0	50	50	47.3	50.4	95	101	70-126	6	
Isopropylbenzene (Cumene)	ug/L	<1.0	50	50	50.1	54.2	100	108	68-127	8	
Methyl acetate	ug/L	<1.0	50	50	59.1	60.7	118	121	10-260	3	
Methyl-tert-butyl ether	ug/L	<1.0	50	50	56.5	60.5	113	121	60-140	7	
Methylcyclohexane	ug/L	<1.0	50	50	53.9	59.2	108	118	66-135	9	
Methylene Chloride	ug/L	<1.0	50	50	66.4	68.1	133	136	69-117	3	M0 ND, no quals
Styrene	ug/L	<1.0	50	50	48.0	51.1	96	102	79-123	6	
Tetrachloroethene	ug/L	<1.0	50	50	38.9	41.4	78	83	64-124	6	v3
Toluene	ug/L	<1.0	50	50	52.2	55.4	104	111	76-123	6	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	68.0	70.4	136	141	69-127	4	M1 ND, no quals
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	43.3	47.9	87	96	61-130	10	v3
Trichloroethene	ug/L	120	50	50	178	185	117	130	73-125	4	M1
Trichlorofluoromethane	ug/L	<1.0	50	50	72.2	75.2	144	150	59-129	4	M1 ND, no quals
Vinyl chloride	ug/L	<1.0	50	50	60.1	62.4	120	125	33-127	4	

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### REPORT OF LABORATORY ANALYSIS

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# Case Narrative

Client: Pace Analytical Services, LLC  
Project/Site: 70201589

Job ID: 410-70557-1

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## Job ID: 410-70557-1

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### Laboratory: Eurofins Lancaster Laboratories Env, LLC

#### Narrative

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#### Job Narrative 410-70557-1

#### Receipt

The samples were received on 1/22/2022 10:02 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.5°C, 0.6°C, 0.6°C, 1.2°C and 1.8°C

#### Receipt Exceptions

The following samples were submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): 356023 - ERT4 (410-70557-17[MS]) and 356023 - ERT4 (410-70557-17[MSD])

#### GC/MS Semi VOA

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



# Chain of Custody

PASI New York Laboratory



410-70557 Chain of Custody



Workorder: 70201589

Workorder Name: HIGH FALLS NY 1/19

Results Requested By: 2/4

Report / Invoice To		Subcontract To			Requested Analy																
Lea Sherman Pace Analytical Melville 575 Broad Hollow Road Melville, NY 11747 Phone (631)694-3040 Email: lea.sherman@pacelabs.com		Eurofins Lancaster 2425 New Holland Pike, Lancaster, PA 17605			P.O. 70201589 LS1																
State of Sample Origin: NY		Preserved Containers																			
Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Unpreserved																
1	356023 - MW8B	1/18/2022 15:35	70201589001	Water										X							
2	356023 - MW14B	1/18/2022 16:55	70201589002	Water										X							
3	356023 - MW10B	1/19/2022 10:10	70201589003	Water											X						
4	356023 - DUP-01	1/19/2022 00:00	70201589004	Water										X							
5	356023 - MW9B	1/19/2022 09:55	70201589005	Water										X							
6	356023 - MW15B	1/19/2022 14:50	70201589006	Water										X							
7	356023 - MW16	1/19/2022 15:05	70201589007	Water										X							
8	356023 - MW5R	1/19/2022 16:03	70201589008	Water										X							
9	356023 - MW7R	1/19/2022 16:13	70201589009	Water										X							
10	356023 - ERT1	1/19/2022 16:23	70201589010	Water										X							
11	356023 - MW12B	1/20/2022 09:30	70201589011	Water										X							
12	356023 - MW6B	1/20/2022 12:05	70201589012	Water										X							
13	356023 - MW11B	1/20/2022 09:10	70201589013	Water										X							
14	356023 - MW5B	1/20/2022 11:25	70201589014	Water										X							
15	356023 - MW1B	1/20/2022 13:30	70201589015	Water										X							
16	356023 - MW4	1/20/2022 14:35	70201589016	Water										X							
17	356023 - ERT4	1/20/2022 17:05	70201589017	Water										X							
18																					
19																					
20																					
21																					

Friday, January 21, 2022 4:12:00 PM

FMT-ALL-C-002rev.00 24f

*ln*



**ATTACHMENT A-5**

Groundwater Discharge Permit Equivalent - February 2021

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Water, Bureau of Water Permits

625 Broadway, Albany, New York 12233

[www.dec.ny.gov](http://www.dec.ny.gov)

## MEMORANDUM SPDES Permit Equivalent

**TO:** Charles Gregory, DER  
**FROM:** Alison Wasserbauer, Bureau of Water Permits, DOW  
**SUBJECT:** SPDES Permit Equivalent: Mohonk Road Industrial Plant, DER Site ID#  
3-56-023  
**DRAINAGE BASIN:** 13 / 06  
**DATE:** February 3, 2021

In response to your request dated September 29, 2020, attached please find the effluent limitations and monitoring requirements for the above noted remediation discharge.

The discharge consists of treated water from contaminated groundwater. The treatment system consists of a pump and treat system with bag filters and an air stripper.

The DOW does not have any regulatory authority over a discharge from a State, PRP, or Federal Superfund Site. DER will be responsible for ensuring compliance with the attached effluent limitations and monitoring requirements, and approval of all engineering submissions. The additional conditions identifies the appropriate DER contact person who will receive all effluent results, engineering submissions, and modification requests. The Regional Water Engineer should be kept apprised of the status of this discharge and, in accordance with the attached criteria, receive a copy of the effluent results for informational purposes.

If you have any questions, please call Alison Wasserbauer at 518-402-8126.

Attachment (Effluent Limitations and Monitoring Requirements)

cc: Region 3 Regional Water Engineer (via email, w/attach)  
BWP Section Chief, DOW (via email, w/attach)



Department of  
Environmental  
Conservation

## EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

OUTFALL	DISCHARGE TYPE	LATITUDE/ LONGITUDE	RECEIVING WATER and CLASS	EFFECTIVE	EXPIRING
001	Treated Remediation Wastewater	41° 48' 56" N 74° 07' 33" W	Coxing Kill and Tribs, Class C(T)	2/3/2021	2/2/2026

The discharges from the treatment facility shall be limited and monitored by the operator as specified below:

Outfall and Parameters	CAS No.	Monthly Ave. Limits	Daily Max Limits	Units	Minimum Monitoring Requirements		FN
					Measurement Frequency	Sample Type	
Outfall 001							
Flow	NA	Monitor	72,000	GPD	Continuous	Recorder	
pH	NA	-	6.5 – 8.5	SU	Monthly	Grab	1
Total Suspended Solids	NA	Monitor	20	mg/L	Monthly	Grab	1
Total Dissolved Solids	NA	Monitor	Monitor	mg/L	Monthly	Grab	1
Methylene Chloride	75-09-2	Monitor	10	µg/L	Monthly	Grab	1
Acetone	67-64-1	Monitor	50	µg/L	Monthly	Grab	1
1,1-Dichloroethylene	00075-35-4	Monitor	10	µg/L	Monthly	Grab	1
1,1-Dichloroethane	75-34-3	Monitor	10	µg/L	Monthly	Grab	1
1,1,1-Trichloroethane	00071-55-6	Monitor	10	µg/L	Monthly	Grab	1
1,2-Dichloroethane	00107-06-2	Monitor	10	µg/L	Monthly	Grab	1
Carbon Tetrachloride	00056-23-5	Monitor	10	µg/L	Monthly	Grab	1
1,2-Dichloroethylene (Total)	540-59-0	Monitor	10	µg/L	Monthly	Grab	1
Chloroform	00067-66-3	Monitor	10	µg/L	Monthly	Grab	1
Trichloroethene	00079-01-6	Monitor	10	µg/L	Monthly	Grab	1
1,4-Dioxane	00123-91-1	Monitor	Monitor	µg/L	Monthly	Grab	1
1,1,2-Trichloroethane	00079-00-5	Monitor	10	µg/L	Monthly	Grab	1
Benzene	00071-43-2	Monitor	5.0	µg/L	Monthly	Grab	1,2
Toluene	00108-88-3	Monitor	5.0	µg/L	Monthly	Grab	1
Iron, Total	07439-89-6	Monitor	540	µg/L	Monthly	Grab	1

### Footnotes:

- The measurement frequency of parameters listed on this page shall be Monthly following a period of 12 (twelve) consecutive weekly sampling events showing no exceedances of the stated discharge limitations. If discharge limitation of any parameter listed on this page exceeds the stated limit, the measurement frequency for all parameters listed on this page shall again be weekly, until a period of four consecutive sampling events showing no exceedances at which point monthly monitoring may resume.
- Benzene analyses must achieve an MDL of 0.2 µg/L and a PWL of 0.8 µg/L



**Additional Conditions:**

1. Discharge is not authorized until such time as an engineering submission showing the method of treatment is approved by the Department. The discharge rate may not exceed the effective or design treatment system capacity. All monitoring data, engineering submissions and modification requests must be submitted to:

Charles Gregory  
Division of Environmental Remediation  
NYSDEC, 625 Broadway, Albany, New York 12233- 7015,  
Tel: 518-402- 9819

With a copy sent to:

Regional Water Engineer, Region 3  
100 Hillside Avenue, Suite 1W, White Plains, New York, 10603-2860  
Phone: (914) 428-2505

2. Samples and measurements, to comply with the monitoring requirements specified above, must be taken from the effluent side of the final treatment unit prior to discharge to the receiving water body unless otherwise noted above.
3. Only site generated wastewater is authorized for treatment and discharge.
4. Authorization to discharge is valid only for the period noted above but may be renewed if appropriate. A request for renewal must be received 6 months prior to the expiration date to allow for a review of monitoring data and reassessment of monitoring requirements.
5. Both concentration (mg/l or µg/l) and mass loadings (lbs/day) must be reported to the Department for all parameters except flow and pH.
6. Any use of corrosion/scale inhibitors, biocidal-type compounds, or other water treatment chemicals used in the treatment process must be approved by the department prior to use.
7. This discharge and administration of this discharge must comply with the substantive requirements of 6NYCRR Part 750.



# MONITORING LOCATIONS

