Periodic Review Report
Haviland Complex and Haviland Road
Site No. 314059
Hyde Park, New York

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by

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January 2022
Version: FINAL
EA Project No. 1602523.0005

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27 January 2022

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LIST OF ACRONYMS AND ABBREVIATIONS

ºC	Degrees Celsius
AWQS	Ambient water quality standard
bgs	Below ground surface
DCDOH	Dutchess County Health Department
DER	Division of Environmental Remediation
DFR	Daily field report
EA	EA Engineering, P.C. and its affiliate EA Science, and Technology
EPA	U.S. Environmental Protection Agency
FS	Feasibility study
ft	Foot (Feet)
HDPE	High-density polyethylene
MS	Matrix spike
MSD	Matrix spike duplicate
ng/L	Nanogram(s) per liter
NPL	National Priorities List
No.	Number
NYSDEC	New York State Department of Environmental Conservation
PDB	Passive diffusion bag
P.E.	Professional Engineer
PES	Precision Environmental Services
PFAS	Per- and polyfluoroalkyl substances
PFC	Perfluorinated compound
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
PFPeA	Perfluoropentanioc Acid
POETS	Point of Entry Treatment System
PRR	Periodic Review Report
PVC	Polyvinyl chloride
RI	Remedial investigation
ROD	Record of Decision
SI	Site inspection
TAL	Target Analyte List
VOC	Volatile organic compound

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ES. EXECUTIVE SUMMARY

Table ES-1. Site Summary

Category	Summary/Results
Site Name/Site Number	Haviland Complex and Haviland Road (Site No. 314059).
Engineering Control	No engineering controls are currently in place at this site.
Institutional Control	No institutional controls are currently in place at this site.
Site Management Plan	No Site Management Plan is currently in place at this site.
Certification/Reporting Period	This Periodic Review Report (PRR) is the second to be completed for the site after the November 2016 PRR completed by the New York State Department of Environmental Conservation (NYSDEC) that detailed site activity from 20 July 2012 to 1 August 2015.
Inspection	**Frequency**
Site Inspection	As needed
Monitoring	**Frequency**
Groundwater	As needed
Prior PRR Recommendations	Site Closeout: Groundwater sampling should be performed with an analysis for inorganic contaminants (metals) in preparation for drafting of an amended Reclassification/Delist Package.
Site Management Activities	• November 2018 Groundwater sampling event • Site Inspection (SI): 2 August 2021 • August 2021 Groundwater sampling event
Site Inspection Findings/Concerns	An SI was conducted by EA Engineering, P.C. and its affiliate EA Science and Technology (EA) on 2 August 2021. Eleven of the 12 monitoring wells were located during the SI; monitoring well MW-86-29 was not located. It was noted during the SI that minor repairs to the monitoring wells were required. These repairs were completed during a second mobilization to the site on 2 September 2021 and included replacing bolts, rethreading well casings, adding well covers, and replacing missing J-plugs.
Groundwater Monitoring Findings/Results	On 27 November 2018 Precision Environmental Services INC., (PES) conducted groundwater sampling as requested by the NYSDEC. PES sampled 11 of the 12 monitoring wells for total metals and 5 of the 12 monitoring wells for per- and polyfluoroalkyl substances (PFAS). It should be noted that MW-86-29/MW-13S was not gauged nor sampled due to a damaged well casing, and local flooding leaving the well inaccessible. Sitewide groundwater gauging and sampling took place on 2 and 3 August 2021, for 10 of the 12 monitoring wells and analyzed for volatile organic compounds (VOCs) and total and dissolved Target Analyte List (TAL) metals. Five groundwater samples were collected for the analysis of PFAS. Groundwater samples were not collected from MW-86-42 because it was dry, and MW-86-29 was not located.

Table ES-1. Site Summary

Monitoring	Frequency
Recommendations	1. Concentrations of VOCs in groundwater collected in 2021 were less than the Ambient Water Quality Standards (AWQS) Class GA criteria. No additional groundwater monitoring for VOCs is recommended at this time. 2. Some metals were detected in groundwater samples collected at the site; however, the analytical data does not indicate a plume of dissolved phase metals. Chromium, iron, manganese, nickel, and sodium were detected in groundwater at concentrations greater than AWQS Class GA criteria but were limited to isolated monitoring wells and are naturally occurring in bedrock. In addition, the downgradient properties are on public water; therefore, there is no risk to human health. No additional groundwater monitoring for metals is recommended. 3. Several PFAS were detected in the groundwater samples collected. Concentrations of perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) exceeded the NYSDEC guidance value of 10 nanograms per liter. PFOA and PFOS were detected in all 5 monitoring wells sampled at concentrations above criteria during the 2018 groundwater sampling event. During the 2021 groundwater sampling event 4 out of the 5 wells exceeded criteria for PFAS. The source of the PFAS in groundwater is not readily apparent. It is recommended that additional research be completed to determine possible sources of PFAS.

1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) was tasked by the New York State Department of Environmental Conservation (NYSDEC) under State Superfund Standby Contract Work Assignment Number (No.) D009806-23 to prepare a Periodic Review Report (PRR) for the Haviland Complex and Haviland Road Site (Site No. 314059) that covers the period from August 2015 to December 2021. The purpose of this PRR is to summarize and evaluate the remedy implemented at the site, relative to the requirements of the Record of Decision (ROD) dated September 1987 (U.S. Environmental Protection Agency [EPA] 1987) and the ROD amendment dated August 1997 (EPA 1997).

The information provided in this report covers the period from August 2015 through December 2021 and summarizes the site inspection (SI) and sampling activities that were performed by EA at the request of NYSDEC. This report was prepared in accordance with the NYSDEC Division of Environmental Remediation (DER)-10, Technical Guidance for Site Investigation and Remediation (NYSDEC 2010). A site summary and applicable remedial program information are summarized in the sections below.

1.1 SITE LOCATION, OWNERSHIP, AND DESCRIPTION

The site is located in Hyde Park, Dutchess County, New York, and is identified as Section 6164, Block 2 and Lots -562583, -559599, -558605, and -581598 on the Dutchess County Tax Map. The site is approximately 7 acres and is bounded by Wright Road to the south, the Haviland Middle School property boundary to the north, Haviland Road to the east, and Violet Avenue/Route 9-G to the west. A map showing the site area and monitoring well locations is provided on **Figure 1.** The site is currently classified as a Class 4 site pursuant to the requirements identified in 6 New York Code of Rules and Regulations §375.

The site currently consists of several businesses located in a shopping center (the Haviland Shopping Center), the Haviland Middle School, and an apartment complex (**Figure 1**). As of December 2021, the shopping center housed commercial businesses including a Chinese food restaurant, a comic bookstore, an ice cream parlor, and a car wash. The apartment complex has approximately 60 units in seven buildings that house approximately 135 residents. To the south of the school property is a residential neighborhood with approximately 30 single-family residences and the Fall Kill is to the southeast of the site.

The site is currently owned by three parties:

- The Haviland Shopping Center
  John J. Lease Realty
  5020 Route 9 West
  Newburgh, New York 12550

- Haviland Apartments (Apartment Complex)
  John J. Lease Realty
  25 Alexander Drive
  Hyde Park, New York 12538

- The Smith School (Haviland Middle School)
  Town of Hyde Park
  4383 Albany Post Road
  Hyde Park, New York 12538.

1.2 INVESTIGATION AND REMEDIAL HISTORY

An investigation of the site began in October 1981 when the Dutchess County Health Department (DCHD) received complaints concerning the quality of drinking water coming from shallow wells located in the area of the site. A survey of the septic system at the Haviland Apartment Complex and Shopping Center area was initiated by the Dutchess County Health Department (DCHD) in December 1981 and sampling was performed. The Haviland Laundromat and Dry Cleaner had been in operation since the late 1960s and is located at the center of the shopping center. Data collected in February and March 1982 found that the septic system at the laundromat and the Haviland Car Wash (immediately north of the shopping center) was failing. Subsequently, in December 1982, the car wash installed a new septic tank, and the laundromat installed a pre-treatment system and a new sand filter and tile field pad to handle its wastewater.

In December 1982, the New York State Department of Health sampled groundwater in the Haviland Complex area. The sampling data indicated that levels of tetrachloroethylene and dichloroethene in the septic discharge from the laundromat/dry-cleaning facility exceeded NYSDEC discharge standards. As a result, in 1983, the laundromat was ordered to disconnect the dry-cleaning operation from the septic system and to dispose of all spent dry-cleaning fluids at a permitted disposal facility. In addition, residents in the area were advised to use bottled water, and water treatment units were installed on the wells servicing the Haviland Apartments in 1984 and the laundromat in 1985, to remove chlorinated organic contaminants. In February 1989, NYSDEC installed point-of-entry water treatment systems on homes that were on well water that exceeded safe drinking water standards (state or federal maximum contaminant levels).

The Haviland Complex and Haviland Road site was proposed to be added to the National Priorities List (NPL) in October 1984 and subsequently placed on the NPL in 1985. NYSDEC was designated as the lead agency for the remedial investigation (RI) and feasibility study (FS). The RI was initiated August 1986 and included a hydrogeologic investigation and sampling a number of groundwater observation wells and local residential shallow-point wells. Twelve polyvinyl chloride (PVC) piezometers were installed in December 1986 by a NYSDEC subcontractor, followed by one PVC and 20 stainless steel monitoring wells in December 1986 through January 1987.

Based on the results of the RI/FS, EPA Region 2 signed a ROD on 30 September 1987, that identified the following remedial actions:

- Clean the contaminated septic systems that were identified as the source of contamination.

- Extend public water from the nearby Harbourd Hills Water District to ensure a potable supply of water to the residents on private wells. EPA would enter into an agreement with the Town of Hyde Park to upgrade this system to meet New York State drinking water standards.

- Extract and treat contaminated groundwater.

EPA initiated a supplemental RI in 1988 through 1990 and proposed a separate remediation plan in a 1991 Remedial Action Report. A sampling survey of the septic systems in the study area identified four septic tanks at the Haviland Complex and the Hyde Park Middle School/Haviland Junior High School that were contaminated. An Interim Remedial Measure was completed by EPA on 4 November 1990 that included cleaning the septic systems and represented the source control portion of the selected remedy. The septic tanks were cleaned out and the sludge was sent offsite for treatment and disposal.

Due to difficulties in implementing the public water supply portion of the remedy, NYSDEC implemented an alternate water supply program in February 1989 and connected point-of-entry treatment systems (POETS) on seven households in the area. NYSDEC was informed that the DCHC would be constructing a public water system for the area in August 2001 and that the homeowners who had NYSDEC maintained, activated-carbon POETS requested that they be connected to the new public water system. Consequently, NYSDEC decided that it would be cost effective to provide the connection to the system and remove the treatment systems. The public water supply extension work began September 2001 and was completed by 30 August 2002.

As reported in the 1997 ROD Amendment, EPA conducted several widespread groundwater investigations in the study area since the 1987 ROD was issued to re-establish a baseline of groundwater quality data (NYSDEC 1997). Monitoring data showed that the levels of contamination in the aquifer exhibited a dramatic decrease over that time, reaching levels near or below state and federal drinking water standards. EPA and NYSDEC agreed that the levels of contamination observed in the aquifer no longer warranted public water supply and groundwater extraction. Therefore, EPA decided to amend the 1987 ROD and rely on the POETS/activated carbon filters, until it was confirmed that the levels of contaminants in the groundwater permanently declined to levels below drinking water standards. A long-term monitoring program was developed to monitor groundwater contamination that remained after the remedial actions were completed. The long-term monitoring program included the sampling of existing RI wells and a new set of groundwater observation wells, installed by EPA in 1998. Long-term groundwater monitoring continued on a quarterly basis through May 2015 with the intention of considering the site for reclassification and delisting from the Registry.

1.3 REGULATORY REQUIREMENTS AND REMEDIAL GOAL

The primary remedial action objective is to:

- Reduce contaminant levels in the groundwater to Federal and State drinking water standards.

In order to determine attainment of the remedial action objective, a long-term groundwater monitoring program was established. Additionally, to remain protective of human health, the aquifer continued to be monitored to ensure that no other homes become impacted by residual, site-related contamination via soil vapor migration pathways.

1.3.1 Remedial System

The remedial system in place consists of a groundwater monitoring well network to assess the groundwater quality both on and off site. There are currently no active engineering controls in place.

2. INSTITUTIONAL AND ENGINEERING CONTROL PLAN COMPLIANCE

The 1997 ROD Amendment did not require placement of institutional controls (NYSDEC 1997). EPA believed the actions identified in the ROD Amendment were adequate to address the current groundwater use as well as the reasonably anticipated future groundwater use in the site area. The DCHD extended the county-wide public water system into the site area where all residents have been connected to the public water supply. Furthermore, additional well drilling requirements and restrictions have been enacted by local government. Any well drilling in the area of the site is governed by the Dutchess County Sanitary Code: Article XVI, Sec. 16.4. Also, New York State Sanitary Code 10 NYCRR Part 5, Subpart 5-2 states that "No person shall construct or abandon any water well unless a permit has first been secured from the permit issuing official."

Since volatile organic compounds (VOCs) in groundwater in the site area has attained drinking water standards and local groundwater is no longer used as a potable water supply, institutional controls and engineering controls are not required, nor necessary for the protection of human health and the environment.

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3. MONITORING AND SAMPLING PLAN COMPLIANCE

Groundwater samples were collected from 10 monitoring wells for analysis of VOCs by EPA Method 8260C and total and dissolved Target Analyte List (TAL) metals by EPA Method 6010 and mercury by EPA Method 7470 in August 2021. In addition, groundwater samples from five monitoring wells (MW-86-1SH, MW-86-X3, MW-86-27, MW-99-02, and MW-99-04) were analyzed for per- and polyfluoroalkyl substances (PFAS). Analytical results were compared to the applicable Technical and Operational Guidance Series 1.1.1 Class GA criteria. Samples were analyzed by an approved Environmental Laboratory Accreditation Program-certified laboratory in accordance with NYSDEC Analytical Services Protocol.

PES had sampled 11 of the 12 monitoring wells for TAL metals by EPA method 6010C in November 2018. Select monitoring wells were also sampled for PFAS via EPA Method 537 Modified. Monitoring wells that were sampled for PFAS in 2018 include: MW-86-24A, MW-99-01, MW-99-02, MW-86-27, and MW-12 (PES 2019). Analytical results were compared to the applicable Technical and Operational Guidance Series 1.1.1 Class GA criteria. Samples were analyzed by an approved Environmental Laboratory Accreditation Program-certified laboratory in accordance with NYSDEC Analytical Services Protocol.

3.1 MONITORING PLAN COMPLIANCE

The groundwater monitoring was completed in compliance with NYSDEC DER-10 for groundwater sampling. Groundwater sampling was in compliance with the recommendations of the NYSDEC 2016 PRR for this site. In addition to routine groundwater samples, matrix spike (MS) and matrix spike duplicate (MSD), rinsate and trip blanks were collected for quality assurance and quality control measures.

Data validation was performed on all data collected in August 2021 by a third-party data validator.

3.2 MONITORING WELL INSPECTION

On 2 August 2021, the monitoring wells were inspected. Of the 12 monitoring wells included in the monitoring well network, 11 were located and inspected. EA staff were unable to locate monitoring well MW-86-29. Site photographs and the SI data sheets are provided in **Appendix A**.

3.2.1 Monitoring Network Effectiveness Evaluation

The monitoring well network was described in the NYSDEC 2016 PRR as adequate to identify VOCs in shallow groundwater both on and off site. Monitoring wells are located distribution downgradient of the principal source area, in the interior of the site, and along the downgradient boundary of the site.

3.2.2 Monitoring Network Condition Summary

During the 2 August 2021 SI and sampling event, EA found that several wells were missing bolts, covers, J-plugs, and/or locks. The SI checklist is provided in **Appendix A** and daily field reports of the SI and sampling event are provided in **Appendix B**.

EA returned to the site on 2 September 2021 to perform the well repairs needed and attempt to locate monitoring well MW-86-29. Well repair activities included replacing bolts, rethreading well casings, replacing well covers, replacing J-plugs, and securing locks on stickup wells. EA was unable to locate monitoring well MW-86-29 during the second attempt. It was documented by Precision Environmental Services (PES) during a prior sampling event in 2018 that MW-86-29 had damage to the well casing and localized flooding within the well (PES 2019). PES was tasked by the NYSDEC to conduct groundwater sampling in November 2018 for metals and PFAS as recommended in the NYSDEC 2016 PRR (PES 2019).

3.3 GROUNDWATER MONITORING SUMMARY

3.3.1 Groundwater Gauging

Monitoring wells were gauged for depth-to-water and inspected. Monitoring wells that were targeted for PFAS sampling were gauged after sampling was complete to avoid cross contamination with the gauging equipment. Static water-level measurements ranged from 0 feet (ft) below ground surface (bgs) (MW-99-03) to 16.63 ft bgs (MW-86-X3). Well depths ranged from 14.5 ft bgs (MW-86-X2) to 62.67 ft bgs (MW-86-27). A groundwater elevation map is provided in **Figure 2. Table 1** provides measured groundwater elevation data.

3.3.2 Groundwater Sampling

Groundwater sampling for total metals and PFAS was previously conducted by PES on 27 November 2018. Monitoring wells MW-86-1SH/HS-1, MW-99-03, MW-99-04, MW-86-X2/HS-3, MW86-X3/HS-4, MW-86-24A, MW-99-01, MW-99-02, MW-86-28/MW-9, MW-86-27/MW-27D, and MW-12 were purged of a minimum of three well volumes or when equilibrium was reached with respect to physical parameter values (including pH, temperature, total dissolved solids, dissolved oxygen, turbidity, oxidation reduction potential and conductivity) using low flow methods. Purging was completed using dedicated high-density polyethylene (HDPE) tubing and a peristaltic pump. Following purge, the wells were allowed to recharge to equilibration, and sampled for laboratory analysis by EPA Method 6010C. Select wells were sampled for PFAS via Method 537 Modified (MW-86-24A, MW-99-01, MW-99-02, MW-86-27/MW-27D, and MW-12). Purge water was returned to the aquifer via surface discharge as directed by the NYSDEC.

Metals samples were obtained by aseptic techniques, placed into clean glassware provided by the analytical laboratory, labeled, and placed on iced storage for subsequent submission under chain of custody to TestAmerica Laboratories, Inc. PFAS samples were collected under both NYSDEC Sampling Guidelines and Protocols and Perfluorinated compound (PFC) Groundwater Samples

from Monitoring Wells Sample Protocol which includes but is not limited to the use of HDPE or Polypropylene bottles, separate coolers, HDPE tubing, nitrile gloves and non-waterproof clothing.

Additionally, groundwater sampling was conducted by EA on 2 and 3 August 2021. EA collected groundwater samples from 10 of the 12 wells in the monitoring network; MW-86-42 was dry, and MW-86-29 was not located (**Figure 1**). At each location, depth-to-water was measured, and the volume of standing water was calculated immediately before purging each well. Monitoring wells that were sampled for PFAS were not measured for depth to water until after the samples had been collected. This was done to prevent possible cross-contamination of the groundwater with PFAS from the water-level meter. Each well was purged using a peristaltic pump with dedicated high-density polyethylene tubing. Purge water was screened using a multi-parameter probe with Horbia U-22 flow-through cell.

The wells were purged until values for temperature, pH, and oxidation-reduction potential reached stabilization and turbidity was measured to be below 50 nephelometric turbidity unit(s). Purge water was discharged to the ground surface in the vicinity of the well. The Well Purging and Sampling Records are provided in **Appendix C.**

Once purging was complete, groundwater samples were collected, placed into appropriate, laboratory-provided containers and immediately placed in a cooler with ice to maintain a temperature no greater than 4 degrees Celsius (°C). Non-dedicated sampling equipment was decontaminated between wells, in accordance with EA's Standard Operating Procedure No. 005 for Field Decontamination.

A total of 15 water samples (including one blind duplicate, one equipment blank, one field blank, and one MS/MSD) were submitted for analysis of VOCs, total and dissolved TAL metals, and mercury via SW846 Method 8260C, SW849 Method 6010C, and SW846 Method 7470A, respectively.

A total of 10 water samples (including one blind duplicate, one equipment blank, one field blank, and one MS/MSD) were submitted for analysis of PFAS via EPA Method 537 (modified) as requested by the NYSDEC (NYSDEC 2020).

All samples were submitted to Eurofins TestAmerica, Inc. for analysis, with Category B deliverables and standard turnaround time requested. The field forms from sample collection are provided in **Appendix C**. The data usability summary reports are provided in **Appendix D**. Analytical results can be found in **Appendix E**.

3.3.3 Groundwater Sample Results

3.3.3.1 Volatile Organic Compounds

VOCs were detected in groundwater samples collected from monitoring wells MW-12, MW-86-24A, MW-86-27, MW-99-01, and MW-99-02; however, the concentrations were less than the New York State Ambient Water Quality Standards (AWQS) Class GA criteria (**Table 2**) and **Figure 3**.

3.3.3.2 Metals

Total and dissolved metals were analyzed in groundwater samples collected in August 2021 to determine if metal concentrations previously detected in groundwater was associated with the particulate phase, dissolved phase, or both. Chromium, iron, manganese, nickel, and sodium were detected in groundwater at concentrations greater than the AWQS Class GA criteria on both a dissolved phase and total concentration basis (**Figure 4, Table 3**). Groundwater samples previously collected from monitoring wells in November 2018, indicated total metals concentrations for chromium, iron, manganese, nickel, and sodium were greater than the AWQS Class GA criteria. The number of exceedances of the AWQS Class GA criteria for TAL metals were greater in 2018 than 2021.

The metals with concentrations greater than AWQS Class GA criteria in groundwater samples collected in 2021 were also found to be greater than AWQS Class GA criteria in 2018; however, the locations of the exceedances were not consistent between 2018 and 2021. The analytical results are shown on **Table 3**.

The presence of metal concentrations in the dissolved phase could indicate a groundwater plume. Therefore, the following section summarizes the detections of dissolved metals observed in onsite groundwater and evaluates whether the data collected indicate the presence of a metal-contaminated groundwater plume.

- Dissolved chromium and dissolved nickel were detected at concentrations greater than AWQS Class GA criteria in monitoring well MW-86-24A only.

- Dissolved iron was detected at concentrations greater than AWQS Class GA criteria in only two monitoring wells, MW-84-24A and MW-86-28, located in close proximity.

- Dissolved manganese was detected at concentrations greater than AWQS Class GA criteria in three monitoring wells, MW-86-28, MW-99-01, and MW-99-02.

- Sodium was detected at concentrations greater than AWQS Class GA criteria in seven of the eight monitoring wells.

These isolated detections of dissolved metals in a few wells (with the exception of sodium) do not indicate that a groundwater plume of dissolved metals is present at the site. In addition, an

evaluation at the nearby Jones Sanitation Superfund Site suggested that metals observed during groundwater sampling as part of the evaluation (iron, manganese, and sodium) were determined to be associated with the area bedrock (EPA 2006). Finally, metal contaminants are not typically associated with the dry cleaning/laundromat operations, which is the original source of the contaminants of concern at the Haviland Complex and Haviland Road site. Therefore, the metals observed in groundwater collected from this site are believed to be naturally occurring and associated with the area bedrock.

3.3.3.3 Per- and Polyfluoroalkyl Substances

This section discusses the analytical results for groundwater samples collected in 2018 and in 2021 to provide a complete assessment of PFAS in groundwater at the site (**Figure 5, Table 4**). In 2018, Perfluorooctanesulfonic acid (PFOS) was detected in groundwater from all five monitoring wells at concentrations ranging from 12 to 24 nanograms per liter (ng/L). Perfluorooctanoic acid (PFOA) was also detected in groundwater from all five monitoring wells, with concentrations ranging from 11 to 34 ng/L.

In 2021, PFOS was detected in groundwater from four of the five monitoring wells. Concentrations of PFOA ranged from non-detect to 25 ng/L. PFOA was also detected in groundwater from all five monitoring wells but only exceeding NYSDEC standards in two of the five monitoring wells samples. Concentrations of PFOA ranged 0.51 to 15 ng/L. MW-99-04 is the only monitoring well where PFOA and PFOS concentrations were less than the groundwater screening level of 10 ng/L.

Monitoring wells MW-99-02 and MW-86-27 were sampled for PFAS in 2018 and 2021, and both locations had similar concentrations of PFOA and PFOS in groundwater collected from the two years.

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4. GREEN REMEDIATION AND CLIMATE CHANGE RESILIENCE

Consistent with NYSDEC DER-31 Green Remediation Policy, this section provides a brief summary and qualitative assessment of the overall environmental impacts or environmental footprint of the site for the current reporting period. In accordance with the NYSDEC's Executive Order No. 24, consideration has been given to reducing the consumption of energy and materials; and thereby, reducing the production of greenhouse gases, in the operation and maintenance of the site. Implementation of NYSDEC DER-31 and Executive Order No. 24 have not compromised the selected remedy's protectiveness of public health and the environment, nor has it hindered achievement of the remedial goals established for the site.

As each discrete step of any site operation and maintenance activity consumes resources and energy, consideration has been given to reducing/eliminating those activities which may not be critical to the protectiveness of the selected remedy.

A critical infrastructure vulnerability assessment was not completed during this certifying period. Such an assessment could generally be utilized to evaluate the potential consequences climate changes may have on a site, as well as any ongoing Site management activities. The well network maintenance activities described in Section 3.2 were implemented to protect the aquifer from direct discharge and to promote proper sampling of the local water quality. These actions have the added effect of increasing the resiliency of the monitoring well network to withstand the impact of more frequent or more severe storms, weather events, flooding, and other impacts linked to climactic changes.

4.1 GREEN REMEDIATION ASSESSMENT

In accordance with the NYSDEC's DER-31 Green Remediation policy, the following section provides a qualitative assessment of the overall environmental impacts, or environmental footprint associated with the remedy.

4.1.1 Electric Usage

Implementation of the selected remedy does not directly use electricity as part of site management.

4.1.2 Fossil Fuel Usage

Implementation of the selected remedy does not directly use fossil fuels as part of site management; however, fossil fuels are indirectly used during the completion of maintenance and monitoring activities associated with the groundwater monitoring well network.

Indirect fossil fuel use results from completion of the following site-related activities:

- Transportation to and from the site for monitoring, sampling, and well rehabilitation.
- Offsite transportation and shipment of samples collected for laboratory analysis.
- Disposal of waste generated at the site.

4.1.3 Water Usage

Implementation of the selected remedy does not directly require the use water at this site. However, a de minimis quantity of water is used during sampling events for equipment decontamination.

4.1.4 Air Emissions

Implementation of the selected remedy does not directly emit contaminants to the air, nor impact air quality other than through the combustion of fossil fuels in vehicles and use in generators, as described above.

4.1.5 Consumption of Materials and Generation of Waste

Monitoring, maintenance and reporting activities associated with groundwater sampling events result in material consumption and the generation of waste. A summary of the current material consumption and waste generation activities for the site are summarized below:

- Personal protective equipment associated with groundwater sampling, such as nitrile gloves, etc.

- Consumables associated with groundwater sampling such as polyethylene tubing, paper towels, trash bags, etc.

- Packaging material and ice used to pack and preserve samples to be submitted for laboratory analysis.

- Paper and office supplies associated with site logs, monitoring logs and report preparation.

- Repair and replacement of equipment associated with the monitoring well network.

4.2 CLIMATE CHANGE VULNERABILITY ASSESSMENT

Increases in both the severity and frequency of storms and weather events, an increase in sea-level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuations, resulting from global climate change and instability, have the potential to significantly impact the performance, effectiveness, and protectiveness of a given site remedy. The intent of this vulnerability assessment is to provide information to allow the site remedy to better prepare for the impacts of the increasing frequency and intensity of severe storms,

weather events, and associated flooding brought on by global climate changes and instabilities, in order to ultimately enhance the remedy's resilience to such events.

This section briefly summarizes the vulnerability of the site and/or the remedy to severe storms, weather events and associated flooding.

This assessment included consideration of the following:

- ***Flood Plain:*** No component of the site is located in a flood plain, low-lying or low-groundwater recharge area.

- ***Site Drainage and Storm Water Management:*** The site is well drained with minimal potential for flooding or damage to the monitoring well network during severe rain events.

- ***Erosion:*** There is no evidence of erosion at the site or areas of the site that may be susceptible to erosion during periods of severe rain events, and which may damage the monitoring well network.

- ***High Wind:*** Most observation wells are flush mounted at ground level and are not susceptible to damage from the wind itself or falling objects, such as trees or utility structures during periods of high wind.

4.3 CONSIDERATIONS FOR OPTIMIZATION OF PHYSICAL SYSTEMS

Environmental and energy conservation measures and other methods to reduce energy consumption, resource usage, waste generation, and water usage have been considered and are described below. During the certifying period two groundwater sampling events were conducted, which required the purging of water from the observation wells prior to sampling. Passive diffusion bags (PDB) would significantly reduce or negate the need for purging observation wells and would reduce or negate the need for associated equipment and energy/fuel consumption. VOCs in groundwater will diffuse across the bag material until constituent concentrations within the bag reach equilibrium with concentrations in the surrounding groundwater. Advantages of PDB samplers is that they are inexpensive and have the potential to eliminate or substantially reduce the amount of purge water associated with sampling. The samplers are easy to deploy and recover. Because PDB samplers are disposable, there is no down-hole equipment to be decontaminated between wells. The limitation of the PDB bags is the bags cannot be used to collect groundwater samples for the analysis of PFAS or metals.

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5. CONCLUSIONS AND RECOMENDATIONS

Concentrations of VOCs in groundwater collected in 2021 were less than the AWQS Class GA criteria. No additional groundwater monitoring for VOCs is recommended at this time.

Metals were detected in groundwater samples collected from the site; however, the analytical data do not indicate a plume of dissolved phase metals. Chromium, iron, manganese, nickel, and sodium were detected in groundwater at concentrations greater than AWQS Class GA criteria. However, these detections are naturally occurring in bedrock and were limited to a few monitoring wells and the downgradient properties are on public water; therefore, there is no risk to human health. No additional groundwater monitoring for metals is recommended.

Several PFAS were detected in the groundwater samples collected; PFOA and PFOS were detected all five monitoring wells sampled at concentrations greater than the guidance value of 10 ng/L in 2018. PFOA was detected in two of the five monitoring wells sampled at concentrations greater than the guidance value of 10 ng/L in 2021. PFOS was detected at four of the five monitoring wells sampled at concentrations greater than the guidance value of 10 ng/L in 2021. The source of the PFAS in groundwater is not readily apparent. It is recommended that additional research be completed to determine possible sources of PFAS.

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6. REFERENCES

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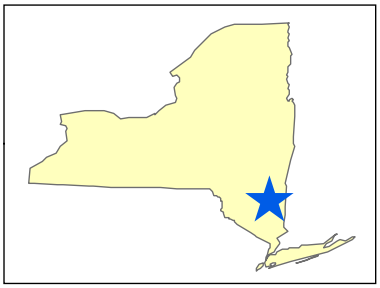
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Figures

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G:\Projects\State&Local\NYSDEC - D009806\Work Assignments\1602523_Multi-Site SM_Portfolio C\5_314059_Haviland\05_GIS\01_MXD\PRR 2021\Figure 02_Haviland_Site_Location_with_wells.mxd



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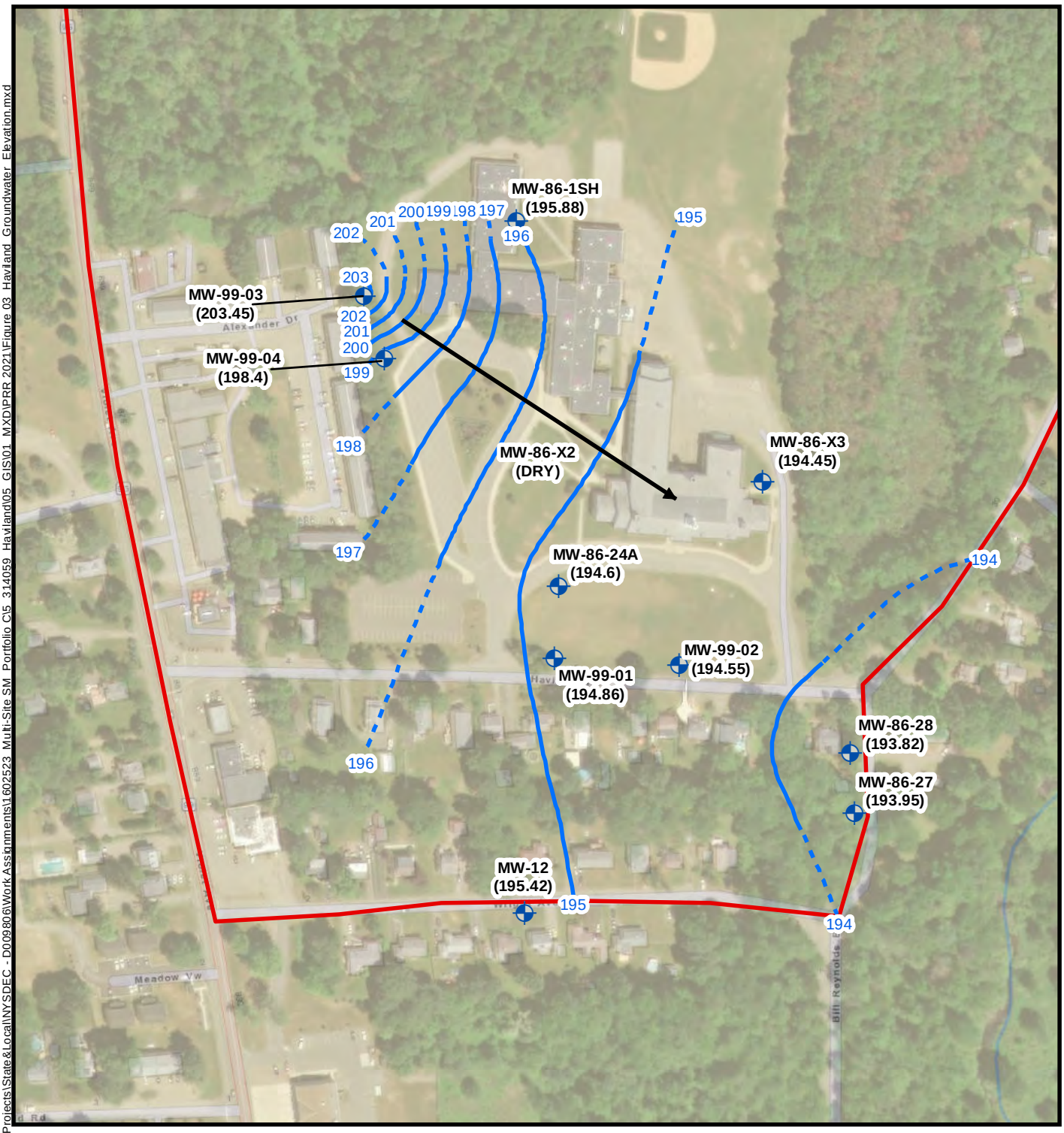
- Site Boundary
- Groundwater Monitoring Wells
- Site Location

Figure 1
Site Layout
Haviland Complex and Haviland Road
Hyde Park, Dutchess County, New York

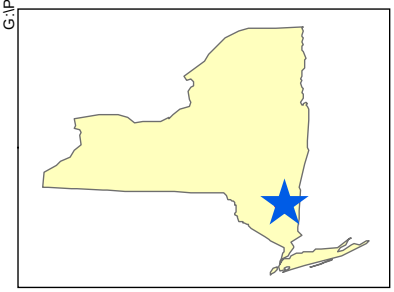
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Projection: UTM, NAD 83, Zone 18N

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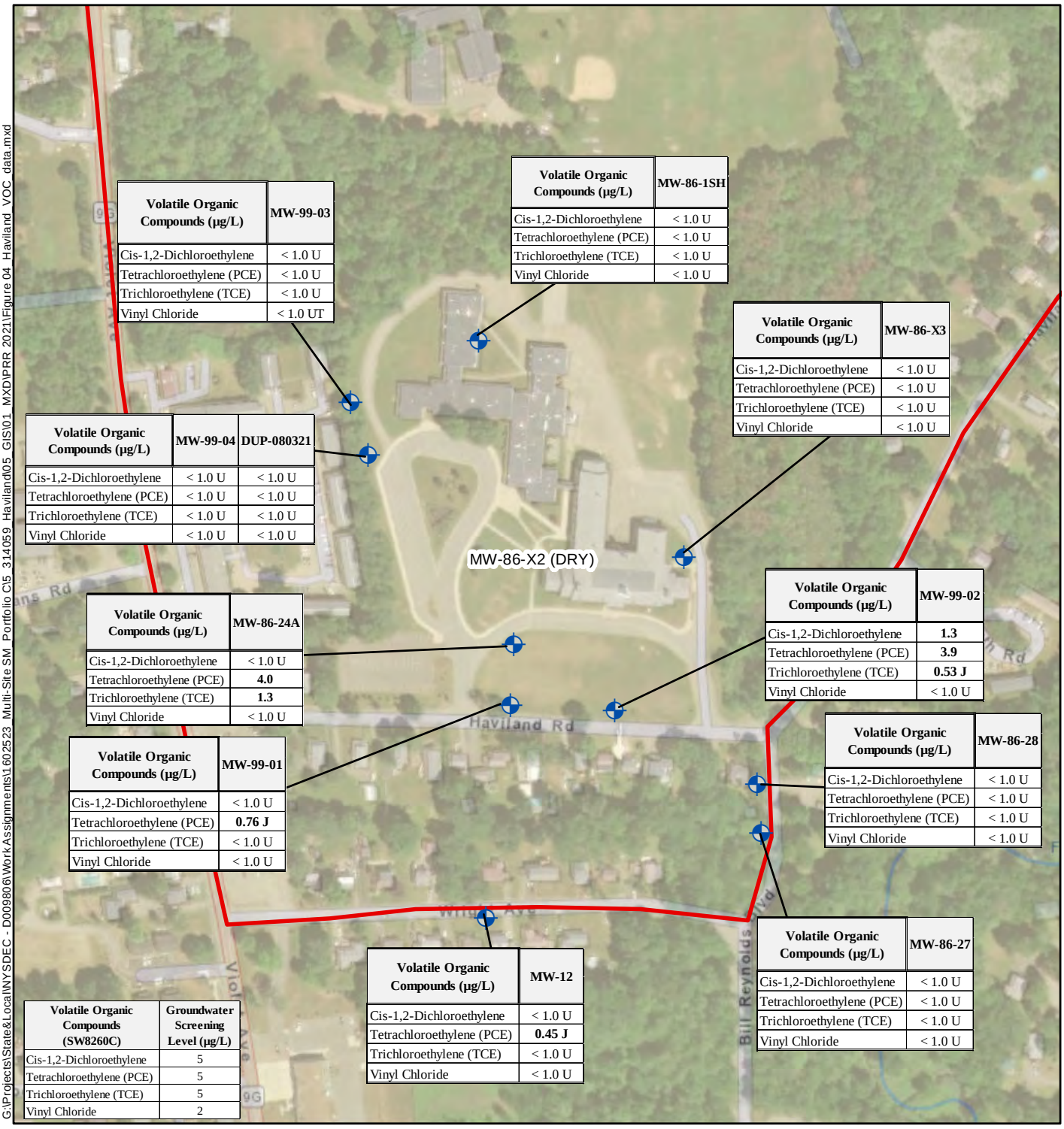
- Site Boundary
- Groundwater Wells
- Groundwater Elevation Contour
- Inferred Groundwater Elevation Contour
- Groundwater Flow Direction
- Site Location

Notes:
Elevation reported in feet above mean sea level

Figure **2**
Groundwater Elevation
August 2021
Haviland Complex and Haviland Road
Hyde Park, Dutchess County, New York

Map Date: 12/15/2021
Projection: UTM, NAD 83, Zone 18N

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation



Volatile Organic Compounds (µg/L)	MW-99-03
Cis-1,2-Dichloroethylene	< 1.0 U
Tetrachloroethylene (PCE)	< 1.0 U
Trichloroethylene (TCE)	< 1.0 U
Vinyl Chloride	< 1.0 UT

Volatile Organic Compounds (µg/L)	MW-86-1SH
Cis-1,2-Dichloroethylene	< 1.0 U
Tetrachloroethylene (PCE)	< 1.0 U
Trichloroethylene (TCE)	< 1.0 U
Vinyl Chloride	< 1.0 U

Volatile Organic Compounds (µg/L)	MW-86-X3
Cis-1,2-Dichloroethylene	< 1.0 U
Tetrachloroethylene (PCE)	< 1.0 U
Trichloroethylene (TCE)	< 1.0 U
Vinyl Chloride	< 1.0 U

Volatile Organic Compounds (µg/L)	MW-99-04	DUP-080321
Cis-1,2-Dichloroethylene	< 1.0 U	< 1.0 U
Tetrachloroethylene (PCE)	< 1.0 U	< 1.0 U
Trichloroethylene (TCE)	< 1.0 U	< 1.0 U
Vinyl Chloride	< 1.0 U	< 1.0 U

Volatile Organic Compounds (µg/L)	MW-86-24A
Cis-1,2-Dichloroethylene	< 1.0 U
Tetrachloroethylene (PCE)	**4.0**
Trichloroethylene (TCE)	**1.3**
Vinyl Chloride	< 1.0 U

Volatile Organic Compounds (µg/L)	MW-99-02
Cis-1,2-Dichloroethylene	**1.3**
Tetrachloroethylene (PCE)	**3.9**
Trichloroethylene (TCE)	**0.53 J**
Vinyl Chloride	< 1.0 U

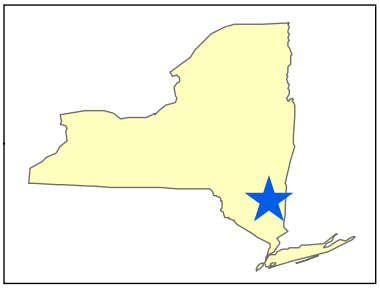
Volatile Organic Compounds (µg/L)	MW-99-01
Cis-1,2-Dichloroethylene	< 1.0 U
Tetrachloroethylene (PCE)	**0.76 J**
Trichloroethylene (TCE)	< 1.0 U
Vinyl Chloride	< 1.0 U

Volatile Organic Compounds (µg/L)	MW-86-28
Cis-1,2-Dichloroethylene	< 1.0 U
Tetrachloroethylene (PCE)	< 1.0 U
Trichloroethylene (TCE)	< 1.0 U
Vinyl Chloride	< 1.0 U

Volatile Organic Compounds (µg/L)	MW-12
Cis-1,2-Dichloroethylene	< 1.0 U
Tetrachloroethylene (PCE)	**0.45 J**
Trichloroethylene (TCE)	< 1.0 U
Vinyl Chloride	< 1.0 U

Volatile Organic Compounds (µg/L)	MW-86-27
Cis-1,2-Dichloroethylene	< 1.0 U
Tetrachloroethylene (PCE)	< 1.0 U
Trichloroethylene (TCE)	< 1.0 U
Vinyl Chloride	< 1.0 U

Volatile Organic Compounds (SW8260C)	Groundwater Screening Level (µg/L)
Cis-1,2-Dichloroethylene	5
Tetrachloroethylene (PCE)	5
Trichloroethylene (TCE)	5
Vinyl Chloride	2



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Site Boundary

Groundwater Wells

Site Location

Notes:
µg/L = Micrograms per Liter
J = Estimated value
T = Indicates that a quality control parameter has exceeded laboratory limits
U = Not detected
VOC = Volatile organic compound
-Groundwater Screening Level = NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)
-Results exceeding the Groundwater Screening Levels are bolded and shaded gray

Figure 3
Groundwater Sampling Results for VOCs
August 2021
Haviland Complex and Haviland Road
Hyde Park, Dutchess County, New York

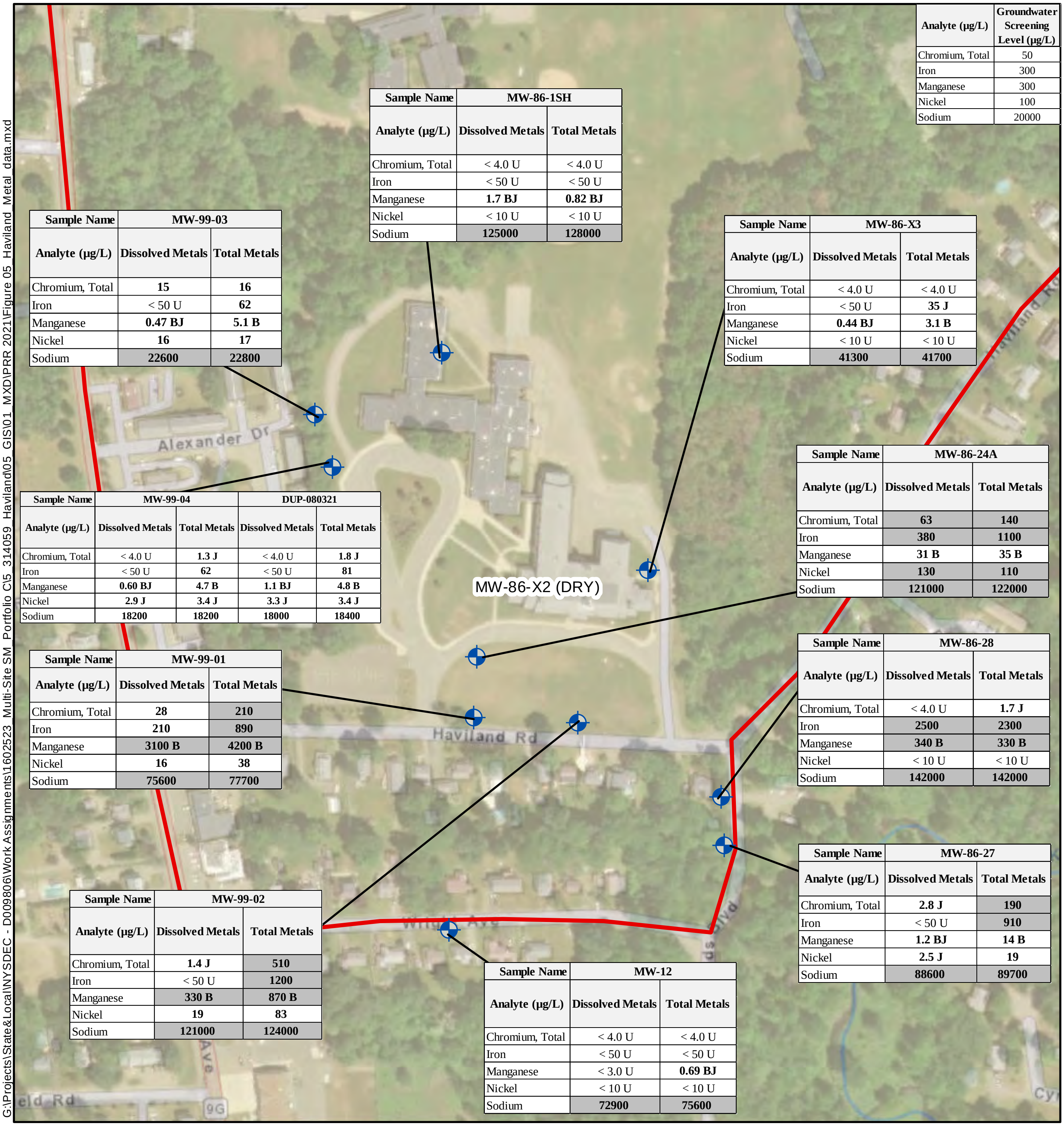
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Projection: UTM, NAD 83, Zone 18N

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Analyte (µg/L)	Groundwater Screening Level (µg/L)
Chromium, Total	50
Iron	300
Manganese	300
Nickel	100
Sodium	20000

Sample Name	MW-86-1SH	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	< 4.0 U	< 4.0 U
Iron	< 50 U	< 50 U
Manganese	1.7 BJ	0.82 BJ
Nickel	< 10 U	< 10 U
Sodium	125000	128000

Sample Name	MW-99-03	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	15	16
Iron	< 50 U	62
Manganese	0.47 BJ	5.1 B
Nickel	16	17
Sodium	22600	22800

Sample Name	MW-86-X3	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	< 4.0 U	< 4.0 U
Iron	< 50 U	35 J
Manganese	0.44 BJ	3.1 B
Nickel	< 10 U	< 10 U
Sodium	41300	41700

Sample Name	MW-86-24A	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	63	140
Iron	380	1100
Manganese	31 B	35 B
Nickel	130	110
Sodium	121000	122000

Sample Name	MW-99-04		DUP-080321	
Analyte (µg/L)	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals
Chromium, Total	< 4.0 U	1.3 J	< 4.0 U	1.8 J
Iron	< 50 U	62	< 50 U	81
Manganese	0.60 BJ	4.7 B	1.1 BJ	4.8 B
Nickel	2.9 J	3.4 J	3.3 J	3.4 J
Sodium	18200	18200	18000	18400

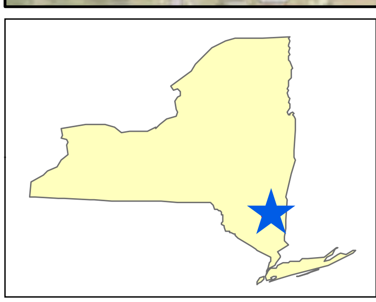
Sample Name	MW-86-28	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	< 4.0 U	1.7 J
Iron	2500	2300
Manganese	340 B	330 B
Nickel	< 10 U	< 10 U
Sodium	142000	142000

Sample Name	MW-99-01	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	28	210
Iron	210	890
Manganese	3100 B	4200 B
Nickel	16	38
Sodium	75600	77700

Sample Name	MW-86-27	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	2.8 J	190
Iron	< 50 U	910
Manganese	1.2 BJ	14 B
Nickel	2.5 J	19
Sodium	88600	89700

Sample Name	MW-99-02	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	1.4 J	510
Iron	< 50 U	1200
Manganese	330 B	870 B
Nickel	19	83
Sodium	121000	124000

Sample Name	MW-12	
Analyte (µg/L)	Dissolved Metals	Total Metals
Chromium, Total	< 4.0 U	< 4.0 U
Iron	< 50 U	< 50 U
Manganese	< 3.0 U	0.69 BJ
Nickel	< 10 U	< 10 U
Sodium	72900	75600



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Site Boundary

Groundwater Wells

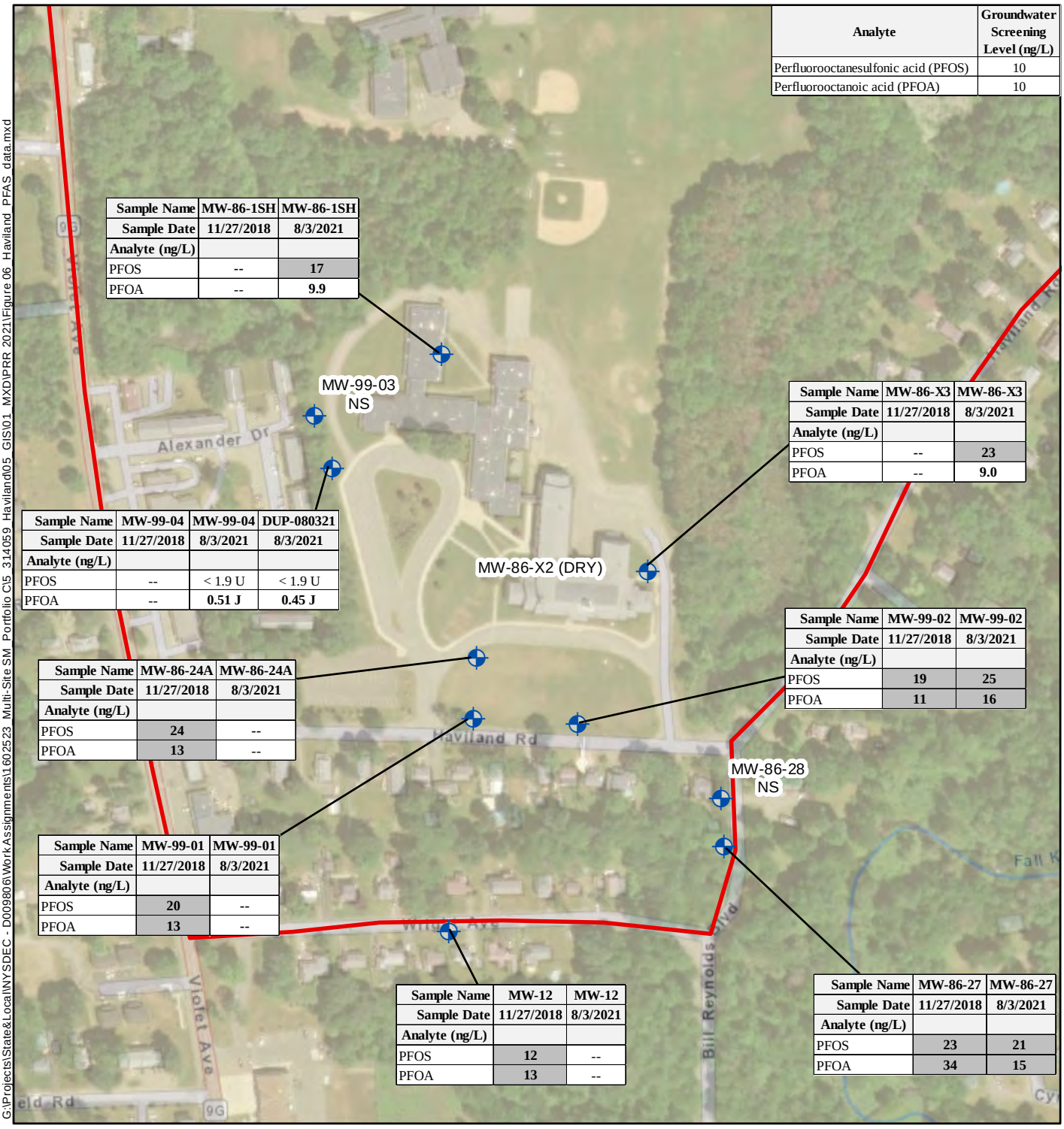
Site Location

Notes:
µg/L = Micrograms per Liter
B = Analyte is detected in associated blank
J = Estimated value
U = Not detected
-- = Not analyzed
-Groundwater Screening Level = NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)
-Results exceeding the Groundwater Screening Levels are bolded and shaded gray

Figure 4
Groundwater Sampling Results for Total and Dissolved Metals
August 2021
Haviland Complex and Haviland Road
Hyde Park, Dutchess County, New York

Map Date: 12/15/2021
Projection: UTM, NAD 83, Zone 18N

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Analyte	Groundwater Screening Level (ng/L)
Perfluorooctanesulfonic acid (PFOS)	10
Perfluorooctanoic acid (PFOA)	10

Sample Name	MW-86-1SH	MW-86-1SH
Sample Date	11/27/2018	8/3/2021
Analyte (ng/L)		
PFOS	--	**17**
PFOA	--	**9.9**

Sample Name	MW-86-X3	MW-86-X3
Sample Date	11/27/2018	8/3/2021
Analyte (ng/L)		
PFOS	--	**23**
PFOA	--	**9.0**

Sample Name	MW-99-04	MW-99-04	DUP-080321
Sample Date	11/27/2018	8/3/2021	8/3/2021
Analyte (ng/L)			
PFOS	--	< 1.9 U	< 1.9 U
PFOA	--	**0.51 J**	**0.45 J**

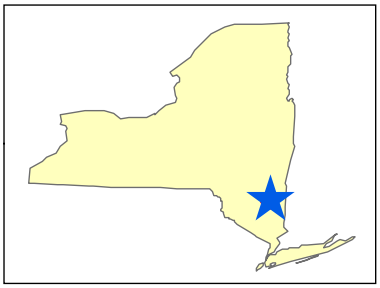
Sample Name	MW-99-02	MW-99-02
Sample Date	11/27/2018	8/3/2021
Analyte (ng/L)		
PFOS	**19**	**25**
PFOA	**11**	**16**

Sample Name	MW-86-24A	MW-86-24A
Sample Date	11/27/2018	8/3/2021
Analyte (ng/L)		
PFOS	**24**	--
PFOA	**13**	--

Sample Name	MW-99-01	MW-99-01
Sample Date	11/27/2018	8/3/2021
Analyte (ng/L)		
PFOS	**20**	--
PFOA	**13**	--

Sample Name	MW-12	MW-12
Sample Date	11/27/2018	8/3/2021
Analyte (ng/L)		
PFOS	**12**	--
PFOA	**13**	--

Sample Name	MW-86-27	MW-86-27
Sample Date	11/27/2018	8/3/2021
Analyte (ng/L)		
PFOS	**23**	**21**
PFOA	**34**	**15**



Legend

- Site Boundary
- Groundwater Wells
- Site Location

Notes:
ng/L = Nanogram per liter
J = Estimated value
NS = Not Sampled
PFAS = Per- and polyfluoroalkyl substances
PFOA = Perfluorooctanoic acid
PFOS = Perfluorooctanesulfonic acid
U = Not detected
-- = Not analyzed

-Groundwater Screening Level = NYSDEC Ambient Water QualityStandard Class GA (Standards/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)
-Results exeeding the Groundwater Screening Levels are bolded and shaded gray

Figure **5**
Groundwater Sampling Results for PFOA and PFOS
November 2018 and August 2021
Haviland Complex and Haviland Road
Hyde Park, Dutchess County, New York

Map Date: 12/15/2021
Projection: UTM, NAD 83, Zone 18N

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Tables

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Table 1 Groundwater Elevations (August 2021)

Monitoring Well	Top of Casing Elevation	Depth to water (ft bgs)	Groundwater Elevation (ft amsl)
MW-861SH	207.08	11.20	195.88
MW-99-01	198.82	3.96	194.86
MW-99-02	198.95	4.40	194.55
MW-99-03	203.45	0.00	203.45
MW-99-04	210.92	12.52	198.40
MW-86-X2	209.50	dry	NA
MW-86-X3	211.08	16.63	194.45
MW-86-24A	204.20	9.60	194.60
MW-86-28	200.00	6.18	193.82
MW-86-27	199.08	5.13	193.95
MW-12	208.70	13.28	195.42
MW-86-29	NA	NA	NA

NOTES:
ft bgs = Foot (feet) below ground surface
ft amsl = Foot (feet) above mean sea level
NA = Not available

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Table 2 Summary of VOC Concentrations in Groundwater Samples (August 2021)

Analyte	Sample Name	MW-12	MW-86-1SH	MW-86-24A	MW-86-27	MW-86-28	MW-86-X3	MW-99-01	MW-99-02	MW-99-03	MW-99-04	DUP-080321	NYSDEC AWQS Class GA (µg/L)
	Parent Sample ID	---	---	---	---	---	---	---	---	---	---	MW-99-04	
	Sample Date	8/3/2021	8/3/2021	8/2/2021	8/3/2021	8/3/2021	8/3/2021	8/2/2021	8/3/2021	8/2/2021	8/3/2021	8/3/2021	
VOCs by EPA Method 8260C													
1,1,1-Trichloroethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
1,1,2,2-Tetrachloroethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
1,1,2-Trichloroethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1
1,1-Dichloroethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
1,1-Dichloroethene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
1,2,4-Trichlorobenzene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
1,2-Dibromo-3-Chloropropane	µg/L	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	0.04
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NSL
1,2-Dichlorobenzene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.8	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3
1,2-Dichloroethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.6
1,2-Dichloropropane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1
1,3-Dichlorobenzene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.2	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3
1,4-Dichlorobenzene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	2.1	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	3
2-Hexanone	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	50
Acetone	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	50
Benzene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1
Bromodichloromethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	50
Bromoform	µg/L	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	50
Bromomethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U	5
Carbon Disulfide	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	60
Carbon Tetrachloride	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Chlorobenzene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	4.7	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Chloroethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U	5
Chloroform	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	0.50 J	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	7
Chloromethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NSL
Cis-1,2-Dichloroethylene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	1.3	< 1.0 U	< 1.0 U	< 1.0 U	5
Cis-1,3-Dichloropropene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.4
Cyclohexane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NSL
Dibromochloromethane	µg/L	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	< 1.0 UJ	50
Dichlorodifluoromethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Ethylbenzene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Isopropylbenzene (Cumene)	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Methyl Acetate	µg/L	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	< 2.5 U	NSL
Methyl Ethyl Ketone (2-Butanone)	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	50
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	NSL
Methylcyclohexane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	NSL
Methylene Chloride	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Styrene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Tert-Butyl Methyl Ether	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	10
Tetrachloroethylene (PCE)	µg/L	0.45 J	< 1.0 U	4.0	< 1.0 U	< 1.0 U	< 1.0 U	0.76 J	3.9	< 1.0 U	< 1.0 U	< 1.0 U	5
Toluene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Trans-1,2-Dichloroethene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	5
Trans-1,3-Dichloropropene	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.4
Trichloroethylene (TCE)	µg/L	< 1.0 U	< 1.0 U	1.3	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	0.53 J	< 1.0 U	< 1.0 U	< 1.0 U	5
Trichlorofluoromethane	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U	5
Vinyl Chloride	µg/L	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 U	< 1.0 UT	< 1.0 U	< 1.0 U	2
Xylenes	µg/L	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	5

NOTES:
µg/L = Microgram(s) per Liter
AWQS = Ambient water quality standards
B = Analyte is detected in associated blank
EPA = U.S. Environmental Protection Agency
ID = Identification
J = Estimated value
NSL = No screening level available
NYSDEC = New York State Department of Environmental Conservation
PCE = Tetrachloroethylene
T = Indicates that a quality control parameter has exceeded laboratory limits
TCE = Trichloroethylene
U = Not detected
VOC = Volatile organic compound
Groundwater Screening Level = NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)

Table 3 Summary of Metal Concentrations in Groundwater Samples (November 2018 and August 2021)

Analyte	Sample Name	MW-12[1]	MW-12	MW-86-1SH[1]	MW-86-1SH	MW-86-24A[1]	MW-86-24A	MW-86-27[1]	MW-86-27	MW-86-28[1]	MW-86-28	MW-86-X3[1]	MW-86-X3	NYSDEC AWQS Class GA (µg/L)
	Parent Sample ID	---	---	---	---	---	---	---	---	---	---	---	---	
	Sample Date	11/27/2018	8/3/2021	11/27/2018	8/3/2021	11/27/2018	8/2/2021	11/27/2018	8/3/2021	11/27/2018	8/2/2021	11/27/2018	8/3/2021	
Dissolved Metals (SW6010C and SW7470A)														
Aluminum	µg/L	---	< 200 U	---	< 200 U	---	75 J	---	< 200 U	---	< 200 U	---	< 200 U	NSL
Antimony	µg/L	---	< 20 U	---	< 20 U	---	< 20 U	---	< 20 U	---	< 20 U	---	< 20 U	3
Arsenic	µg/L	---	< 15 U	---	< 15 U	---	< 15 U	---	< 15 U	---	< 15 U	---	< 15 U	25
Barium	µg/L	---	23	---	36	---	21	---	27	---	50	---	20	1000
Beryllium	µg/L	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	3
Cadmium	µg/L	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	5
Calcium	µg/L	---	41300	---	69400	---	40000	---	74600	---	52200	---	63600	NSL
Chromium, Total	µg/L	---	< 4.0 U	---	< 4.0 U	---	**63**	---	2.8 J	---	< 4.0 U	---	< 4.0 U	50
Cobalt	µg/L	---	< 4.0 U	---	< 4.0 U	---	1.5 J	---	< 4.0 U	---	< 4.0 U	---	< 4.0 U	NSL
Copper	µg/L	---	< 10 U	---	< 10 U	---	< 10 U	---	< 10 U	---	< 10 U	---	< 10 U	200
Iron	µg/L	---	< 50 U	---	< 50 U	---	**380**	---	< 50 U	---	**2500**	---	< 50 U	300
Lead	µg/L	---	< 10 U	---	< 10 U	---	< 10 U	---	< 10 U	---	< 10 U	---	< 10 U	25
Magnesium	µg/L	---	5200	---	7500	---	4900	---	6000	---	12900	---	5300	35000
Manganese	µg/L	---	< 3.0 U	---	< 3.0 U	---	31 B	---	< 3.0 U	---	**340 B**	---	< 3.0 U	300
Mercury	µg/L	---	< 0.20 U	---	< 0.20 U	---	< 0.20 U	---	< 0.20 U	---	< 0.20 U	---	< 0.20 U	0.7
Nickel	µg/L	---	< 10 U	---	< 10 U	---	**130**	---	2.5 J	---	< 10 U	---	< 10 U	100
Potassium	µg/L	---	2900	---	1200	---	1200	---	760	---	1900	---	2300	NSL
Selenium	µg/L	---	< 25 U	---	< 25 U	---	< 25 U	---	< 25 U	---	< 25 U	---	< 25 U	10
Silver	µg/L	---	< 6.0 U	---	< 6.0 U	---	< 6.0 U	---	< 6.0 U	---	< 6.0 U	---	< 6.0 U	50
Sodium	µg/L	---	**72900**	---	**125000**	---	**121000**	---	**88600**	---	**142000**	---	**41300**	20000
Thallium	µg/L	---	< 20 U	---	< 20 U	---	< 20 U	---	< 20 U	---	< 20 U	---	< 20 U	0.5
Vanadium	µg/L	---	< 5.0 U	---	< 5.0 U	---	< 5.0 U	---	< 5.0 U	---	< 5.0 U	---	< 5.0 U	NSL
Zinc	µg/L	---	< 10 U	---	< 10 U	---	6.2 J	---	< 10 U	---	13 B	---	< 10 U	2000
Total Metals (SW6010C and SW7470A)														
Aluminum	µg/L	2300	70 J	< 200 U	69 J	94	370	< 200 U	71 J	98	130 J	5500	61 J	NSL
Antimony	µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	3
Arsenic	µg/L	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	25
Barium	µg/L	43	24	26	35	30	23	32	28	15	49	55	20	1000
Beryllium	µg/L	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	3
Cadmium	µg/L	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	2	< 2.0 U	5
Calcium	µg/L	69100	43500	57900	70900	46100	42100	72300	76300	18300	52300	43800	64600	NSL
Chromium, Total	µg/L	12	< 4.0 U	< 4.0 U	< 4.0 U	**510**	**140**	**340**	**190**	< 4.0 U	1.7 J	7.4	< 4.0 U	50
Cobalt	µg/L	1.6	< 4.0 U	< 4.0 U	< 4.0 U	0.78	1.4 J	5.5	1.0 J	< 4.0 U	< 4.0 U	6	< 4.0 U	NSL
Copper	µg/L	5.8	< 10 U	4.2	3.2 J	7.8	1.8 J	6.5	4.5 J	< 10 U	< 10 U	27	< 10 U	200
Iron	µg/L	**3700**	< 50 U	< 50 U	< 50 U	**2100**	**1100**	**2000**	**910**	**1500**	**2300**	**10500**	35 J	300
Lead	µg/L	3.7	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	13	< 10 U	25
Magnesium	µg/L	8400	5400	6600	7700	5600	5100	8400	6200	4500	12800	5300	5500	35000
Manganese	µg/L	170	< 3.0 U	0.93	< 3.0 U	89	35 B	**540**	14 B	130	**330 B**	**540**	3.1 B	300
Mercury	µg/L	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.7
Nickel	µg/L	4.2	< 10 U	< 10 U	< 10 U	31	**110**	**230**	19	< 10 U	< 10 U	9.3	< 10 U	100
Potassium	µg/L	4500	2800	1200	1100	3600	1100	1600	750	2300	1800	3900	2200	NSL
Selenium	µg/L	<25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	10
Silver	µg/L	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	50
Sodium	µg/L	**125000**	**75600**	**72600**	**128000**	**154000**	**122000**	**99100**	**89700**	**38600**	**142000**	**45900**	**41700**	20000
Thallium	µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	0.5
Vanadium	µg/L	3.5	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	10	< 5.0 U	NSL
Zinc	µg/L	12	< 10 U	3.0	1.5 J	2	6.1 J	< 10 U	1.6 J	2.3	< 10 U	57	< 10 U	2000

NOTES:
[1]Data was collect by Precision Environmental Services INC., for NYSDEC in November of 2018. Wells were tested for Total Metals and PFAS. (Precision Environmental Services, INC. *Groundwater Sampling Report of Findings* . 2018)
µg/L = Microgram(s) per Liter
AWQS = Ambient Water Quality Standards
B = Analyte is detected in associated blank
ID = Identification
J = Estimated value
U = Not detected
NSL = No screening level available
NYSDEC = New York State Department of Conservation
Groundwater Screening Level = NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)
Results exceeding the Groundwater Screening Levels are bolded and shaded gray

Table 3 Summary of Metal Concentrations in Groundwater Samples (November 2018/August 2021)

Analyte	Sample Name	MW-86-X2[1]	MW-99-01[1]	MW-99-01	MW-99-02[1]	MW-99-02	MW-99-03[1]	MW-99-03	MW-99-04[1]	MW-99-04	DUP-080321	NYSDEC AWQS Class GA (µg/L)
	Parent Sample ID	---	---	---	---	---	---	---	---	---	MW-99-04	
	Sample Date	11/27/2018	11/27/2018	8/2/2021	11/27/2018	8/3/2021	11/27/2018	8/2/2021	11/27/2018	8/3/2021	8/3/2021	
Dissolved Metals (SW6010C and SW7470A)												
Aluminum	µg/L	---	---	67 J	---	< 200 U	---	< 200 U	---	< 200 U	< 200 U	NSL
Antimony	µg/L	---	---	< 20 U	---	< 20 U	---	< 20 U	---	< 20 U	< 20 U	3
Arsenic	µg/L	---	---	< 15 U	---	< 15 U	---	< 15 U	---	< 15 U	< 15 U	25
Barium	µg/L	---	---	20	---	29	---	96	---	46	45	1000
Beryllium	µg/L	---	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	< 2.0 U	3
Cadmium	µg/L	---	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	---	< 2.0 U	< 2.0 U	5
Calcium	µg/L	---	---	77200	---	95800	---	39400	---	113000	111000	NSL
Chromium, Total	µg/L	---	---	28	---	1.4 J	---	15	---	< 4.0 U	< 4.0 U	50
Cobalt	µg/L	---	---	1.8 J	---	2.4 J	---	< 4.0 U	---	< 4.0 U	< 4.0 U	NSL
Copper	µg/L	---	---	< 10 U	---	1.6 J	---	5.6 J	---	7.6 J	< 10 U	200
Iron	µg/L	---	---	210	---	< 50 U	---	< 50 U	---	< 50 U	< 50 U	300
Lead	µg/L	---	---	< 10 U	---	< 10 U	---	< 10 U	---	< 10 U	< 10 U	25
Magnesium	µg/L	---	---	7900	---	9500	---	14000	---	10400	10200	35000
Manganese	µg/L	---	---	**3100 B**	---	**330 B**	---	< 3.0 U	---	< 3.0 U	< 3.0 U	300
Mercury	µg/L	---	---	< 0.20 U	---	< 0.20 U	---	< 0.20 U	---	< 0.20 U	< 0.20 U	0.7
Nickel	µg/L	---	---	16	---	19	---	16	---	2.9 J	3.3 J	100
Potassium	µg/L	---	---	2300	---	2300	---	1900	---	850	840	NSL
Selenium	µg/L	---	---	< 25 U	---	< 25 U	---	< 25 U	---	< 25 U	< 25 U	10
Silver	µg/L	---	---	< 6.0 U	---	< 6.0 U	---	< 6.0 U	---	< 6.0 U	< 6.0 U	50
Sodium	µg/L	---	---	**75600**	---	**121000**	---	**22600**	---	18200	18000	20000
Thallium	µg/L	---	---	< 20 U	---	< 20 U	---	< 20 U	---	< 20 U	< 20 U	0.5
Vanadium	µg/L	---	---	< 5.0 U	---	< 5.0 U	---	< 5.0 U	---	< 5.0 U	< 5.0 U	NSL
Zinc	µg/L	---	---	1.8 J	---	< 10 U	---	< 10 U	---	< 10 U	< 10 U	2000
Total Metals (SW6010C and SW7470A)												
Aluminum	µg/L	<200 U	280	180 J	< 200 U	67 J	810	110 J	100	< 200 U	< 200 U	NSL
Antimony	µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	3
Arsenic	µg/L	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	< 15 U	25
Barium	µg/L	12	25	28	24	35	89	94	32	45	45	1000
Beryllium	µg/L	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	3
Cadmium	µg/L	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	0.82	< 2.0 U	0.66	< 2.0 U	< 2.0 U	5
Calcium	µg/L	27600	73100	79400	45300	98800	39100	40100	87900	115000	116000	NSL
Chromium, Total	µg/L	< 4.0 U	< 4.0 U	**210**	40	**510**	**160**	16	**66**	1.3 J	1.8 J	50
Cobalt	µg/L	< 4.0 U	5.4	3.1 J	3.8	5.9	2.7	< 4.0 U	4.9	< 4.0 U	< 4.0 U	NSL
Copper	µg/L	< 10 U	2.6	2.3 J	1.9	2.3 J	13	6.1 J	8.1	< 10 U	< 10 U	200
Iron	µg/L	< 10 U	**1300**	**890**	**1000**	**1200**	**1600**	62	**2600**	62	81	300
Lead	µg/L	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	< 10 U	4.3	< 10 U	< 10 U	25
Magnesium	µg/L	2500	8600	8100	5200	9800	13300	14300	6400	10500	10500	35000
Manganese	µg/L	0.63	**5100**	**4200 B**	**1300**	**870 B**	**59**	5.1 B	190	4.7 B	4.8 B	300
Mercury	µg/L	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	< 0.20 U	0.7
Nickel	µg/L	< 10 U	69	38	86	83	53	17	18	3.4 J	3.4 J	100
Potassium	µg/L	2700	2500	2300	1600	2100	2800	1800	800	840	880	NSL
Selenium	µg/L	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	< 25 U	10
Silver	µg/L	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	< 6.0 U	50
Sodium	µg/L	10000	**85200**	**77700**	**135000**	**124000**	**29400**	**22800**	17400	18200	18400	20000
Thallium	µg/L	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	< 20 U	0.5
Vanadium	µg/L	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	< 5.0 U	2.4	< 5.0 U	1.7	< 5.0 U	< 5.0 U	NSL
Zinc	µg/L	2.3	2.9	2.0 J	2.4	< 10 U	37	2.8 J	12	1.9 J	2.2 J	2000

NOTES:
[1]Data was collect by Precision Environmental Services INC., for NYSDEC in November of 2018. Wells were tested for Total Metals and PFAS. (Precision Environmental Services, INC. *Groundwater Sampling Report of Findings* . 2018)
µg/L = Microgram(s) per Liter
AWQS = Ambient Water Quality Standards
B = Analyte is detected in associated blank
ID = Identification
J = Estimated value
U = Not detected
NSL = No screening level available
NYSDEC = New York State Department of Conservation
Groundwater Screening Level = NYSDEC Ambient Water Quality Standard Class GA (Standard/guidance values) (Technical and Operational Guidance Series [TOGS] 1.1.1)
Results exceeding the Groundwater Screening Levels are bolded and shaded gray

Table 4 Summary of PFAS Concentrations in Groundwater Samples (November 2018 and August 2021)

Analyte	Sample Name	MW-12[2]	MW-86-1SH	MW-86-24A[2]	MW-86-27[2]	MW-86-27	MW-86-X3	MW-99-01[2]	MW-99-02[2]	MW-99-02	MW-99-04	DUP-080321	Groundwater Screening Level[1]
	Parent Sample ID	---	---	---	---	---	---	---	---	---	---	MW-99-04	
	Sample Date	11/27/2018	8/3/2021	11/27/2018	11/27/2018	8/3/2021	8/3/2021	11/27/2018	11/27/2018	8/3/2021	8/3/2021	8/3/2021	
PFAS via EPA Method 537													
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (6:2 FTS)	ng/L	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 1.9 U	< 1.9 U	NSL
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid	ng/L	< 4.8 U	< 4.7 U	< 4.8 U	< 4.8 U	< 4.8 U	< 4.9 U	< 4.9 U	< 4.9 U	< 4.9 U	< 4.8 U	< 4.7 U	NSL
2-(N-methyl perfluorooctanesulfonamido) acetic acid	ng/L	< 4.8 U	< 4.7 U	< 4.8 U	< 4.8 U	< 4.8 U	< 4.9 U	1.3	< 4.9 U	< 4.9 U	< 4.8 U	< 4.7 U	NSL
N-Ethyl-N-((heptadecafluorooctyl)sulphonyl) glycine	ng/L	< 4.8 U	< 4.7 U	< 4.8 U	< 4.8 U	< 4.8 U	< 4.9 U	1.2	< 4.9 U	< 4.9 U	< 4.8 U	< 4.7 U	NSL
Perfluorobutanesulfonic acid (PFBS)	ng/L	9.4	2.6 B	2.1	2.3	2.4 B	< 1.9 U	2.7	1.8	3.5 B	< 0.72 U	< 0.72 U	NSL
Perfluorobutanoic Acid	ng/L	6.4	8.2	11	12	11	8.2	5.0	3.4	8.9	1.6 J	1.7 J	NSL
Perfluorodecane Sulfonic Acid	ng/L	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 1.9 U	< 1.9 U	NSL
Perfluorodecanoic acid (PFDA)	ng/L	0.84	< 1.9 U	1.3	< 1.9 U	< 1.9 U	< 1.9 U	0.87	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	NSL
Perfluorododecanoic acid (PFDoA)	ng/L	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 1.9 U	< 1.9 U	NSL
Perfluoroheptane Sulfonate (PFHPS)	ng/L	< 1.9 U	< 1.9 U	0.34	0.60	< 1.9 U	< 1.9 U	< 1.9 U	0.42	< 1.9 U	< 1.9 U	< 1.9 U	NSL
Perfluoroheptanoic acid (PFHpA)	ng/L	4.9	3.5	3.0	4.9	4.5	2.6	3.5	2.2	4.9	< 1.9 U	< 1.9 U	NSL
Perfluorohexanesulfonic acid (PFHxS)	ng/L	3.9	< 1.9 U	1.1	3.5	< 1.9 U	< 1.9 U	2.6	2.3	3.9	< 1.9 U	< 1.9 U	NSL
Perfluorohexanoic acid (PFHxA)	ng/L	7.4	17	51	19	27	18	5.4	2.2	7.7	< 1.9 U	< 1.9 U	NSL
Perfluorononanoic acid (PFNA)	ng/L	1.1	1.9	1.7	1.1	< 1.9 U	< 1.9 U	1.4	1.1	2.1	< 1.9 U	< 1.9 U	NSL
Perfluorooctane Sulfonamide (FOSA)	ng/L	< 1.9 U	< 1.9 U	0.53	< 1.9 U	< 1.9 U	1.5 J	0.41	< 2.0 U	< 2.0 U	< 1.9 U	< 1.9 U	NSL
Perfluorooctanesulfonic acid (PFOS)	ng/L	**12**	**17**	**24**	**23**	**21**	**23**	**20**	**19**	**25**	< 1.9 U	< 1.9 U	10
Perfluorooctanoic acid (PFOA)	ng/L	**13**	9.9	**13**	**34**	**15**	9.0	**13**	**11**	**16**	0.51 J	0.45 J	10
Perfluoropentanoic Acid (PFPeA)	ng/L	8.4	17	50	19	32	18	4.3	1.9	8.8	0.57 J	< 1.9 U	NSL
Perfluorotetradecanoic acid (PFTA)	ng/L	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 1.9 U	< 1.9 U	NSL
Perfluorotridecanoic Acid (PFTriA)	ng/L	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 1.9 U	< 1.9 U	NSL
Perfluoroundecanoic Acid (PFUnA)	ng/L	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 1.9 U	< 2.0 U	< 2.0 U	< 2.0 U	< 2.0 U	< 1.9 U	< 1.9 U	NSL

NOTES:
[1]Guidance values for PFAS outlined in the NYSDEC's *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), under NYSDEC's part 375 Remedial Programs, June 2021*
[2]Data was collect by Precision Environmental Services INC., for NYSDEC in November of 2018. Wells were tested for Total Metals and PFAS. (Precision Environmental Services, INC. *Groundwater Sampling Report of Findings.* 2018)
ng/L = Nanogram(s) per liter
B = Analyte is detected in associated blank
EPA = U.S. Environmental Protection Agency
ID = Identification
J = Estimated value
U = Not detected
NSL = No screening level available
NYSDEC = New York Department of Environmental Conservation
PFAS = Per- and polyfluoroalkyl substance
Groundwater Screening Level = NYSDEC Screening criteria
Results exceeding the Groundwater Screening Levels are bolded and shaded gray

Appendix A

Site Inspection Checklist and Photographic Log

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Site Inspection Checklist

Site Name (Number):	Haviland Complex and haviland Road (356014)	Date/Time:	2/8/2021
Site Address (nearest cross street):	Route 9G and Haviland Rd, Hyde Park, New York		
Weather: Partly Cloudy, about 64°F		Personnel:	N. Robinson, L. Backman, H. Young

Site property description (.e.g, buildings, fencing, gates, etc)

Building(s): Y	Stories: 1 to 2	In Use/Active:	Residential homes and School
Bldg material:		Area Use (R/C/I):	R/C
Fenced (Y/N) (material): N		Gate(s): N	Lock(s): N

Nearest adjacent buildings (and descriptions):

Site is located in a residential area and some wells are located on Haviland Middle School property. Residential buildings vary from ranch style to two story houses.

Site Surface Hydrology

Surface water drainage/Impoundments:	Creeks/Streams: N
Ponds/Water front N	

Site Features

Asphalt/Concrete (%) : 10%	Condition:	Good
Slope/Direction (steep/flat,hilly, etc.)		
Vegetation (grassy/trees/shrubs; overgrown, etc.)		Vegatation maintained; Some wells bordered wooded areas
Overhead Utilities (electric/data/phone):		Yes
Subsurface Utilities and Locations:		Unknown

Monitoring Wells (see attached checklist).

Notes/Other Observations:

EA was able to find wells MW-99-03, MW-99-04, MW-86-1SH, MW-86-X3, MW-86-X2, MW-86-24A, MW-99-01, MW99-02, MW-86-28, MW-86-27, and MW-12. Several of the wells did not have bolts, covers, J-plugs or locks. Tubing was found in some of the wells. EA was unable to locate MW-86-29. MW-86-X3 was found with no cover on the stick up as well as no J-plug.EA began to perform well repairs on 09/01/2021 including replacing bolts, rethread well casings, add well cover, and add J-plugs. (1230) N.

Robinson attempted to find MW-86-29. N. Robinson could not find MW-86-29

Site Sketch

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Photographic Record

Haviland Complex
Hyde Park, NY
August 2nd, 2021



MW-99-03 Facing North



MW-99-03



MW-99-04 Facing East



MW-99-04



MW-86-1SH Facing Southwest



MW-86-1SH

Photographic Record

Haviland Complex
Hyde Park, NY
August 2nd, 2021



MW-86-X3 Facing South



MW-86-X3



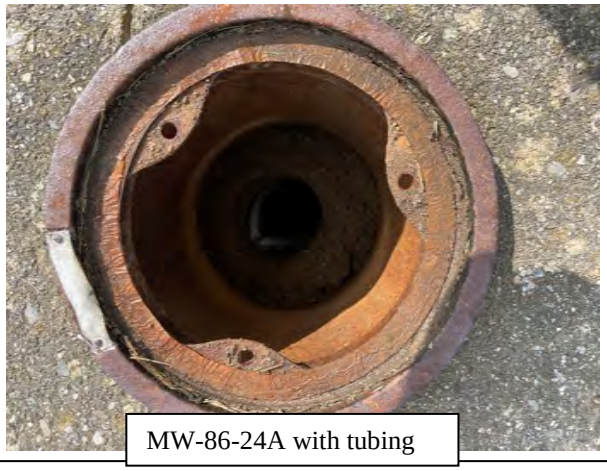
MW-86-X2 Facing North



MW-86-X2



MW-86-24A



MW-86-24A with tubing

Photographic Record

Haviland Complex
Hyde Park, NY
August 2nd, 2021



Tubing from MW-86-24A



MW-99-01 Facing South



MW-99-01



Tubing from MW-99-01



MW-99-02 Facing East



MW-99-02 with tubing

Photographic Record

Haviland Complex
Hyde Park, NY
August 2nd, 2021



MW-86-28 Facing West



MW-86-28



MW-86-27 Facing West



MW-86-27 with tubing



Tubing from MW-86-27



MW-12 facing Southwest

Photographic Record

Haviland Complex
Hyde Park, NY
August 2nd, 2021



MW-86-12 facing Northwest



MW-12 with tubing

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Appendix B

Daily Field Reports

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DAILY FIELD REPORT **Day: Monday Date: 02 August 2021**

Temperature: (F) am: 64° F
pm: 74° F

Wind Direction: n/a
Weather: Partly cloudy

Project Name: Haviland Complex and Haviland Road

NYSDEC Site # 356014

Work Assignment # 1602523
Location: Hyde Park, New York

Arrive at site: 0845 (am)
Leave site: 1615 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? (If yes, list the deviation under items for concern)		Yes ( )	No (x)	
Are monitoring results at acceptable levels?	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

OTHER ITEMS:

- *If No, provide comments*

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

(0845) L. Backman-Lowe, H. Young and N. Robinson arrived at Haviland Complex and Haviland Road, in Hyde Park, NY. EA began to calibrate the PID and began locating all wells and gauging wells not sampled for PFAS. The wells are located on the Haviland Middle School as well as some residential properties. EA was able to find wells MW-99-03, MW-99-04, MW-86-1SH, MW-86-X3, MW-86-X2, MW-86-24A, MW-99-01, MW-99-02, MW-86-28, MW-86-27, and MW-12. Several of the wells did not have bolts, covers, J-plugs or locks. Tubing was found in some of the wells. EA was unable to locate MW-86-29 and will try again tomorrow 8/3/21. MW-86-X2 was found to be dry and EA will attempt to gauge tomorrow 8/3/21. (1110) EA set up and began purging MW-99-03. (1151) EA sampled MW-99-03 with a MS/MSD. (1304) EA set up and began purging MW-86-24A. (1340) EA sampled MW-86-24A. (1400) EA set up and began purge MW-99-01. (1439) EA sample MW-99-01. (1509) EA set up and began purge MW-86-28. (1546) EA sample MW-86-28. (1615) EA pack up and leave site.

Well ID	Sample Time	
MW-99-03	1151	MS/MSD
MW-86-24A	1340	
MW-99-01	1439	
MW-86-28	1546	

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: Lincoln Backman-Lowe, Haley Young, Noah Robinson

NYSDEC personnel: None

Subcontractor personnel: None

EA equipment:* None

Subcontractor Equipment: Water Level Meter, Peristaltic Pump, Horiba U-52 Water Quality Meter, MiniRAE PID

(*Indicates active equipment)

VISITORS TO SITE:

None

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

Several of the wells are missing a cover, J-plug, bolts, or a lock. Tubing was also found in some of the wells. MW-86-29 that historically was declared damaged was unable to be located. MW-86-X3 was found with no cover on the stick up as well as no J-plug.

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: L. DeSantis

cc:

DAILY FIELD REPORT **Day: Monday Date: 03 August 2021**

Temperature: (F) am: 57° F
pm: 74° F

Wind Direction: n/a
Weather: Partly cloudy

Project Name: Haviland Complex and Haviland Road

NYSDEC Site # 356014

Work Assignment # 1602523
Location: Hyde Park, New York

Arrive at site: 0800 (am)
Leave site: 1815 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?				
	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

OTHER ITEMS:

- *If No, provide comments*

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

(0800) L. Backman-Lowe, H. Young and N. Robinson arrived at Haviland Complex and Haviland Road, in Hyde Park, NY. EA began to calibrate the Horiba U-52. EA set up, purged and sampled MW-86-1SH with an MS/MSD for PFAS, MW-86-X3, MW-99-02, MW-99-04 with a duplicate, MW-86-27 and MW-12. EA attempted to locate MW-86-29 again but was unable to find the well. (1640) EA collects field blank. (1645) EA collects equipment blank. (1730) EA offsite.

Well ID	Sample Time	
MW-86-1SH	0913	MS/MSD for PFAS only
MW-86-X3	1041	
MW-99-02	1200	
MW-99-04	1327	DUP-080321
MW-86-27	1456	
MW-12	1556	
FB-080321	1640	
EB-080321	1645	

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: Lincoln Backman-Lowe, Haley Young, Noah Robinson

NYSDEC personnel: None

Subcontractor personnel: None

EA equipment:* None

Subcontractor Equipment: Water Level Meter, Peristaltic Pump, Horiba U-52 Water Quality Meter, MiniRAE PID

(*Indicates active equipment)

VISITORS TO SITE:

None

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

Several of the wells are missing a cover, J-plug, bolts, or a lock. Tubing was also found in some of the wells. MW-86-29 that historically was declared damaged was unable to be located. MW-86-X3 was found with no cover on the stick up as well as no J-plug.

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: L. DeSantis

cc:

DAILY FIELD REPORT **Day: Monday Date: 01 September 2021**

Temperature: (F) am: 71° F
pm: 71° F

Wind Direction: n/a
Weather: Rain

Project Name: Haviland Complex and Haviland Road

NYSDEC Site # 314059

Work Assignment # 1602523
Location: Hyde Park, New York

Arrive at site: 1100 (am)
Leave site: 1300 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? (If yes, list the deviation under items for concern)		Yes ( )	No (x)	
Are monitoring results at acceptable levels?	Soil	Yes ( )	n/a (x)	* No ( )
	Waters	Yes ( )	n/a (x)	* No ( )
	Air	Yes ( )	n/a (x)	* No ( )

OTHER ITEMS:

- *If No, provide comments*

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes (x) No ( )

DESCRIPTION OF DAILY WORK PERFORMED:

(1100) N. Robinson arrived at Haviland Complex and Haviland Road, in Hyde Park, NY. EA began to perform well repairs including replacing bolts, rethread well casings, add well cover, and add J-plugs. (1230) N. Robinson attempted to find MW-86-29. N. Robinson could not find MW-86-29 (1300) EA offsite.

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: Noah Robinson
NYSDEC personnel: None
Subcontractor personnel: None
EA equipment:* None
Subcontractor Equipment: None

(*Indicates active equipment)

VISITORS TO SITE:

None

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

COMMENTS:

ATTACHMENT(S) TO THIS REPORT:

Photos of repairs wells

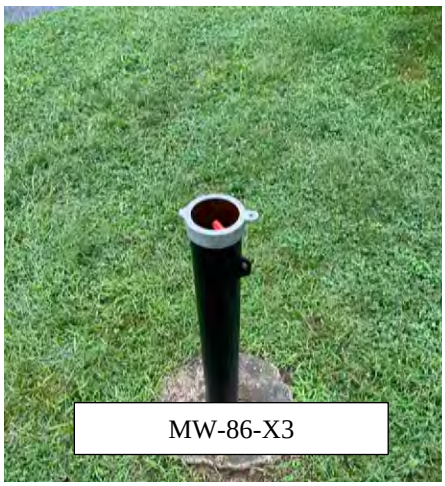
SITE REPRESENTATIVE:

Name: L. DeSantis

cc:

Photographic Record

Haviland Complex
Hyde Park, NY
September 1st, 2021



MW-86-X3



MW-86-X3



MW-86-X3



MW-86-1SH



MW-86-24A



MW-99-02

Photographic Record

Haviland Complex
Hyde Park, NY
September 1st, 2021


MW-99-02


MW-99-01


MW-86-28


MW-86-X2


MW-86-27


MW-86-27 replaced lock

Appendix C

Well Purging and Sampling Records

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FIELD CALIBRATION FORM

Site Name: Haviland Complex

INSTRUMENT: Mini RAE 3000	INSTRUMENT ID No: 44806
OPERATOR: N. Robinson	WEATHER: 64°F Partly Cloudy
SPAN GAS TYPE: Isobutylene 100ppm	DATE: 8/2/21
CALIBRATION NOTES:	
Zero: 0.0 ppm	
Span: 100.0 ppm	
COMMENTS:	
SIGNATURE: [signature]	DATE: 8/2/21

EA Engineering, Science, and Technology, Inc.

FIELD CALIBRATION FORM

YSI 3800
pH, CONDUCTIVITY, TEMPERATURE, TURBIDITY, ORP, AND DISSOVED OXYGEN

CALIBRATION
DATE: 08/02/21
TIME: 1052
METER ID: ~~15375~~ 25336

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.78	4.01
~~7.0~~		
~~10.0~~		

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
~~1.413~~ 4.49 ms/cm	4.60	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	21.5	0.7
~~126 NTU~~		

ORP CALIBRATION

STANDARD	FINAL READING
240 millivolts	

DISSOLVED OXYGEN CALIBRATION

STANDARD	INTITIAL READING	FINAL READING
100% AIR SATURATION	10.42	9.82

COMMENTS

SIGNATURE

EA Engineering, Science, and Technology, Inc.

FIELD CALIBRATION FORM

~~YSI 3800~~ Horiba U52

pH, CONDUCTIVITY, TEMPERATURE, TURBIDITY, ORP, AND DISSOVED OXYGEN

CALIBRATION	
DATE:	8/12/21
TIME:	1053
METER ID:	~~041067~~ 041070

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.93	3.99
~~7.0~~		
~~10.0~~		

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
~~1.413~~ 4.49 mS/cm	4.53	4.50

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0
~~126 NTU~~		

ORP CALIBRATION

STANDARD	FINAL READING
~~240 millivolts~~	

DISSOLVED OXYGEN CALIBRATION

STANDARD	INTITIAL READING	FINAL READING
~~100% AIR SATURATION~~	9.06	8.87

COMMENTS

SIGNATURE

EA Engineering, Science, and Technology, Inc.

FIELD CALIBRATION FORM

~~YSI 3800~~ Horiba

pH, CONDUCTIVITY, TEMPERATURE, TURBIDITY, ORP, AND DISSOVED OXYGEN

CALIBRATION
DATE: 8/3/21
TIME: 0834
METER ID: 041070

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	~~4.04~~	3.96
~~7.0~~		
~~10.0~~		

CONDUCTIVITY CALIBARATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
~~12.88~~ 4.49	4.49	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0
~~126 NTU~~		

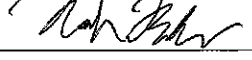
ORP CALIBRATION

STANDARD	FINAL READING
~~240 millivolts~~	

DISSOLVED OXYGEN CALIBRATION

STANDARD	INTITIAL READING	FINAL READING
100% AIR SATURATION	8.08 mg/L	8.65 mg/L

COMMENTS



SIGNATURE

Project _____ Project No. _____
Subject _____ Sheet No. ____ of ____
_____ Drawing No. _____
Computed by _____ Date _____ Checked by _____ Date _____

Hiwland Complex Weather am: C49 Partly cloudy 8/2/21 PM:

0845 EA (L. Backman-Lowe, H. Yang, N. Robinson) arrive onsite of Hawk middle school

0900 EA begin calibration of PID

0905 arrive at MW99-03

	Well ID	DTW	DTB	PID (ppm)	Notes
0905	MW-99-03	0.0	24.69	0.0	Flush
0916	MW-99-04	—	—	~~0.0~~ 3.7	(PFas) Stick
0921	MW-86-15H	—	—	0.0	(PFas) No Lock
☆ 0930	MW-86-X3	—	—	0.0	(PFas) ! No Caps or J plug
0933	MW-86-X2	—	14.50 Ft	0.0	Left complete open Dry Stick up
0939	MW-86-24A	9.60	15.88	0.0	(well J plug must Plug Secure) Tubing ch Bolts & Plug
0946	MW-99-01	5.96	14.74	0.0	Tubing Flush
0955 ☆	MW-99-02	—	—	0.0	No Bolts Tubing No J
1002	MW-86-28	6.18	16.36	0.0	Flush
1008	MW-86-27	—	—	0.0	No lock Stick
1016	MW-86-29 can't locate				(PFas) Tubing No J Plug
1021	MW-12	13.28	20.09	0.0	Each Tubing

Project _____ Project No. _____
Subject _____ Sheet No. ____ of ____
_____ Drawing No. _____
Computed by _____ Date _____ Checked by _____ Date _____

Haviland Complex

1036 EA offsite for ice

1080 EA arrive on site and begin calibration of Horiba

1100 EA set up on MW-99-03

1110 Begin purge

DTW = 0.0 ftbgs

DTB = ~~34.96~~ 34.69 ftbgs

PSD = 0.0

1151 Sample MW-99-03 w/ MS/MSD

1215 EA offsite for bathroom

1250 EA set up on MW-86-24A

1304 Begin purge at MW-86-24A

1340 Sample MW-86-24A

1420 EA mobilized to MW-99-01 and begin purge

1439 Sample MW-99-01

1455 EA mobilize to MW-86-28

1509 Begin purge MW-86-28

1546 Sample MW-86-28

1615 EA off site

Rock Ziglar
8/2/21

Project _____ Project No. _____
Subject _____ Sheet No. ____ of ____
_____ Drawing No. _____
Computed by _____ Date _____ Checked by _____ Date _____

8/3/21
Haviland complex

weather 80°F, 5% partly cloudy, PM's.

0800 EA arrived on site and began calibration of Horibas
0836 EA set up on MW-86-15H
0847 Begin purge at MW-86-15H
0913 Sample MW-86-15H w/ MS/MSD for PFAS
0947 set up on MW-86-X3, no cover or J plug on stick up well
0954 Begin purge MW-86-X3
1041 Sample MW-86-X3
1100 EA mobilize and set up at MW-99-02
1108 Begin purge at ~~MW-86-X3~~ MW-99-02
1200 Sample MW-99-02
1220 EA offsite and pack up for bathroom
1245 EA Onsite and set up on MW-99-04
1301 Begin purge of MW-99-04
1327 Sample MW-99-04 w/ DUP-080321
1355 EA mobilize to MW-86-27 and set up
1408 Begin purge MW-86-27
1456 Sample MW-86-27
1510 EA mobilize to MW-12
1524 EA Begin purge at MW-12
1556 Sample MW-12

1610 EA Pack coolers and QC samples
1730 EA off site

8/3/21

WELL PURGING AND SAMPLING RECORD

Site Name/Location Haviland Complex	Project No: 161	Page 1 of 1
Well ID MW-86-24A	Date 8/2/21	Time 1258
Well Site Description Haviland Middle School		
Weather/Temp 73°F partly cloudy		
Field Technician NR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) Unknown
Well Diameter (in.) 4	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 15.88	Gallons per foot of depth 0.653
Depth to product (ft) NA	Static water level (ft) 9.60
Product column height (ft) NA	Water column height (ft) 6.28
Product volume (Gallons) NA	Water volume (Gallons) 4.10

PURGE INFORMATION

Pump Type / ID Peri 19548	Water Quality Meter Type / ID Horiba U52 24070
Pump Intake Depth (ft) ~5 ft from Bottom	Flow-Thru Cell Volume (L)
Purge Start Time 1304	Appearance/Odor (Start) Clear Colorless Odorless
Purge End Time 1350	Appearance/Odor (End) Clear colorless odorless
Average Purge Rate (mL/min)	Total Drawdown (ft) 0.0

Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 16.5	Total Pump Time (min) 35	

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/2/21	1305	0.30	—	8.03	0.692	18.13	-2	257	5.95	9.65
	1310	0.30	1.5	7.28	0.697	16.98	0	120	5.01	9.65
	1315	0.30	3.0	6.95	0.699	16.55	-13	91.7	5.04	9.65
	1320	0.30	4.5	6.81	0.709	16.22	-10	56.2	5.06	9.64
	1325	0.30	6.0	6.78	0.716	15.95	-7	15.1	4.89	9.64
	1330	0.30	7.5	6.76	0.718	15.76	0	0.8	4.88	9.65
	1335	0.30	9.0	6.75	0.717	15.81	3	0.0	4.75	9.65
	1340	0.30	10.5	6.74	0.717	15.98	5	0.0	4.74	9.65

COMMENTS _____

SAMPLE COLLECTION

Sample Date 8/2/21	Sample Time 1340
Sample ID MW-86-24A	
QA/QC Collected / ID —	Sample Appearance/Odor Clear Colorless Odorless
Analyses VOCs, TAL metals, Dissolved metals	
Sampler NR HY LBL	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Haviland Complex	Project No: 160253/0005	Page 1 of 1
Well ID	MW-99-03	Date 8/2/21	Time 1108
Well Site Description	Haviland middle School		
Weather/Temp	72 partly cloudy		
Field Technician	MR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) Unknown
Well Diameter (in.) 4	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 34.69	Gallons per foot of depth 0.653
Depth to product (ft) NA	Static water level (ft) 0.0
Product column height (ft) NA	Water column height (ft) 34.69
Product volume (Gallons) NA	Water volume (Gallons) 22.65

PURGE INFORMATION

Pump Type / ID Peri		Water Quality Meter Type / ID
Pump Intake Depth (ft) 5ft above bottom		Flow-Thru Cell Volume (L)
Purge Start Time 1110		Appearance/Odor (Start)
Purge End Time 1200		Appearance/Odor (End)
Average Purge Rate (mL/min) 0.30		Total Drawdown (ft) 5.90
Well Went Dry (Y/N) N	Stop Time —	Volume removed ~~(L)~~ —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time ✓
Total Volume Removed (L) 12.0		Total Pump Time (min) 40

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/2/21	1111	0.40	—	7.60	0.384	20.31	116	0.0	4.79	0.0
	1116	0.40	1.5	8.76	0.332	14.65	83	0.0	3.60	1.25
	1121	0.40	3.0	8.97	0.332	14.42	72	0.0	3.60	2.09
	1126	0.30	4.5	9.04	0.332	14.45	64	0.0	3.48	3.07
	1131	0.30	6.0	9.05	0.332	14.57	59	0.0	3.66	3.68
	1136	0.30	7.5	9.04	0.331	15.28	53	0.0	3.63	4.50
	1141	0.30	9.0	9.01	0.331	15.52	49	0.0	3.94	4.87
	1146	0.30	10.5	8.98	0.331	15.72	47	0.0	3.95	5.39
	1151	0.30	12.0	8.97	0.330	15.85	45	0.0	4.00	5.90
✓										

COMMENTS _____

SAMPLE COLLECTION

Sample Date 8/2/21	Sample Time 1151
Sample ID MW-99-03	
QA/QC Collected / ID MS/MSD	Sample Appearance/Odor Clear colorless, odorless
Analyses VOC, TAL metals, Dissolved metals	
Sampler MR, LBL, HY	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location Haviland Complex	Project No: 160252.3/0005	Page 1 of 1
Well ID MW-99-01	Date 8/2/21	Time 1359
Well Site Description Haviland middle school		
Weather/Temp 77 Partly cloudy		
Field Technician NR HY LBL		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) –	Screened Interval (ft bgs) Unknown
Well Diameter (in.) 4	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 14.74	Gallons per foot of depth 0.653
Depth to product (ft) NA	Static water level (ft) 3.96
Product column height (ft) NA	Water column height (ft) 10.78
Product volume (Gallons) NA	Water volume (Gallons) 7.04

PURGE INFORMATION

Pump Type / ID Per. 19568		Water Quality Meter Type / ID
Pump Intake Depth (ft) 12		Flow-Thru Cell Volume (L)
Purge Start Time 1400		Appearance/Odor (Start) Brownish, cloudy, turbid
Purge End Time 1445		Appearance/Odor (End) colorless, particles in sample
Average Purge Rate (mL/min) 0.30		Total Drawdown (ft)
Well Went Dry (Y/N) N	Stop Time –	Volume removed (L) –
Recovery Time –	Recovery Rate (mL/min) –	Restart Purge Time –
Total Volume Removed (L) 10.5		Total Pump Time (min) 35

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/2/21	1404	0.30	–	7.80	0.673	22.01	42	>1000	2.86	3.86
	1409	0.30	1.5	7.21	0.700	16.21	-40	368	0.12	3.89
	1414	0.30	3.0	7.23	0.697	16.37	-53	196	0.02	3.89
	1419	0.30	4.5	7.23	0.691	16.36	-58	88.3	0.00	3.89
	1424	0.30	6.0	7.21	0.697	15.68	-56	6.7	0.06	3.89
	1429	0.30	7.5	7.21	0.693	15.74	-60	3.8	0.00	3.89
	1434	0.30	9.0	7.19	0.693	15.85	-62	0.7	0.00	3.89
	1439	0.30	10.5	7.18	0.690	15.96	-62	0.0	0.00	3.89

COMMENTS _____

SAMPLE COLLECTION

Sample Date 8/2/21	Sample Time 1439
Sample ID MW-99-01	
QA/QC Collected / ID –	Sample Appearance/Odor colorless, particles in sample
Analyses VOCs, Tot. metals, Dis. metals	
Sampler NR LBL HY	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location Hanford	Project No: 160523/0005	Page 1 of 1
Well ID MW-86-28	Date 8/2/21	Time 1555
Well Site Description Hanford and Bill Reynolds Rd.		
Weather/Temp 79° partly cloudy		
Field Technician MR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 9.7	Screened Interval (ft bgs) 3 - 13
Well Diameter (in.) 2	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 16.36	Gallons per foot of depth ~~0.18~~ 0.163
Depth to product (ft) NA	Static water level (ft) 6.18
Product column height (ft) NA	Water column height (ft) 10.18
Product volume (Gallons) NA	Water volume (Gallons) 1.66

PURGE INFORMATION

Pump Type / ID Peri 19548		Water Quality Meter Type / ID Horiba U52 04/070
Pump Intake Depth (ft) ~1 ft from bottom		Flow-Thru Cell Volume (L)
Purge Start Time 1509		Appearance/Odor (Start) Clear Colorless odorless
Purge End Time 1555		Appearance/Odor (End) Clear Colorless odorless
Average Purge Rate (mL/min) 0.30		Total Drawdown (ft)
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 10.5		Total Pump Time (min) 35

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/2/21	1511	0.30	—	7.09	0.852	20.32	-175	160	1.34	5.96
	1516	0.30	1.5	7.15	0.865	17.35	-166	134	0.10	6.17
	1521	0.30	3.0	7.08	0.855	17.24	-160	142	0.00	6.22
	1526	0.30	4.5	7.05	0.862	17.02	-163	62.1	0.02	6.29
	1531	0.30	6.0	7.00	0.862	16.49	-175	25.4	0.02	6.29
	1536	0.30	7.5	6.94	0.868	16.42	-181	0.0	0.00	6.29
	1541	0.30	9.0	6.91	0.877	16.11	-184	0.0	0.00	6.22
	1546	0.30	10.5	6.90	0.878	16.17	-180	0.0	0.00	6.22

COMMENTS _____

SAMPLE COLLECTION

Sample Date 8/2/21	Sample Time 1546
Sample ID MW-86-28	
QA/QC Collected / ID —	Sample Appearance/Odor Clear Colorless Odorless
Analyses VOCs, TAL metals, Dis. Metals	
Sampler MR - LBL HY	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Haviland Complex	Project No: 160253	Page 1 of 1
Well ID	MW-86-15H	Date 8/3/21	Time 0845
Well Site Description	Haviland middle school		
Weather/Temp	57°F partly cloudy		
Field Technician	MR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) Haven 3.2	Screened Interval (ft bgs) 6-16
Well Diameter (in.) 2	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 18.11	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 11.20
Product column height (ft) NA	Water column height (ft) 6.91
Product volume (Gallons) NA	Water volume (Gallons) 1.2

PURGE INFORMATION

Pump Type / ID Reg; 19548		Water Quality Meter Type / ID Horiba U52 044070
Pump Intake Depth (ft)		Flow-Thru Cell Volume (L) —
Purge Start Time 0847		Appearance/Odor (Start) Clear colorless odorless
Purge End Time 0920		Appearance/Odor (End) Clear colorless odorless
Average Purge Rate (mL/min) 0.30		Total Drawdown (ft)
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.5		Total Pump Time (min) 25

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/3/21	0848	0.30	—	5.46	1.05	19.15	177	0.00	6.43	—
	0853	0.30	1.5	6.31	~~1.04~~ 2.04	18.39	103	0.0	6.28	—
	0858	0.30	3.0	6.44	1.04	18.18	93	0.0	6.21	—
	0903	0.30	4.5	6.49	1.04	18.12	91	0.0	6.10	—
	0908	0.30	6.0	6.53	1.03	18.12	90	0.0	5.97	—
	0913	0.30	7.5	6.55	1.03	18.16	89	0.0	5.93	—

COMMENTS Gauged after sample and no depth to water during purge due to PFAS MS/MSD for only PFAS

SAMPLE COLLECTION

Sample Date 8/3/21	Sample Time 0913
Sample ID MW-86-15H	
QA/QC Collected / ID MS/MSD PFAS	Sample Appearance/Odor Clear colorless odorless
Analyses VOC, TAL metal, Dis, metal, PFAS	
Sampler MR LBL HY	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location Haviland Complex	Project No: 160252360005	Page 1 of 1
Well ID MW-99-02	Date 8/3/21	Time 1105
Well Site Description Haviland Middle School		
Weather/Temp 68°F partly		
Field Technician NR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) —	Screened Interval (ft bgs) Unknown
Well Diameter (in.) 4	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 18.55 bgs	Gallons per foot of depth
Depth to product (ft)	Static water level (ft) ~~4.40~~ 4.40 ft bgs
Product column height (ft)	Water column height (ft)
Product volume (Gallons)	Water volume (Gallons)

PURGE INFORMATION

Pump Type / ID Peri 19548			Water Quality Meter Type / ID Horiba U52 041070
Pump Intake Depth (ft) 16'			Flow-Thru Cell Volume (L) —
Purge Start Time 1106			Appearance/Odor (Start) Brwn, Odorless turb
Purge End Time 1211			Appearance/Odor (End) Clear Colorless odorless
Average Purge Rate (mL/min)			Total Drawdown (ft) —
Well Went Dry (Y/N) N	Stop Time —		Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —		Restart Purge Time —
Total Volume Removed (L) 15			Total Pump Time (min) 50

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/3/21	1110	0.30	—	7.00	1.14	18.56	13	73.0	1.65	—
	1115	0.30	1.5	6.83	1.17	17.34	-55	28.9	0.72	—
	1120	0.30	3.0	6.81	1.17	17.31	-58	23.7	0.85	—
	1125	0.30	4.5	6.80	1.17	17.44	-60	22.2	0.54	—
	1130	0.30	6.0	6.79	1.17	17.39	-54	18.8	0.56	—
	1135	0.30	7.5	6.78	1.17	17.26	-37	11.1	0.56	—
	~~1140~~ 1140	0.30	9.0	6.78	1.17	17.22	-29	7.1	0.56	—
	1145	0.30	10.5	6.78	1.17	17.18	-24	3.2	0.55	—
	~~1150~~ 1150	0.30	12.0	6.79	1.17	17.26	-16	3.3	0.66	—
	1155	0.30	13.5	6.77	1.17	17.36	-16	0.2	0.65	—
	1200	0.30	15.0	6.77	1.17	17.45	-16	0.0	0.63	—

COMMENTS NO S-pipe, NO Bolts Water level and gauging ~~done~~ taken after Sample due to PFAS

SAMPLE COLLECTION

Sample Date 8/3/21	Sample Time 1200
Sample ID MW-99-02	
QA/QC Collected / ID —	Sample Appearance/Odor Clear, colorless, odorless
Analyses VOCs, TAL metals, Dis. metals, PFAS	
Sampler NR LBL HY	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Haviland Complex	Project No: 160523/0005	Page 1 of 1
Well ID	MW-86-X3	Date 8/3/21	Time 0951
Well Site Description	Haviland Middle School		
Weather/Temp	63° partly cloudy		
Field Technician	NR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	5.00	Screened Interval (ft bgs)	10 - 20
Well Diameter (in.)	2	Nominal Borehole Diameter (in.)	

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	25.94 TOC	Gallons per foot of depth	0.163
Depth to product (ft)	NA	Static water level (ft)	16.63 TOC
Product column height (ft)	NA	Water column height (ft)	9.31
Product volume (Gallons)	NA	Water volume (Gallons)	1.52

PURGE INFORMATION

Pump Type / ID	Pes. 19548	Water Quality Meter Type / ID	Horiba U52
Pump Intake Depth (ft)	18'	Flow-Thru Cell Volume (L)	—
Purge Start Time	0954	Appearance/Odor (Start)	Clear colorless odorless
Purge End Time	1050	Appearance/Odor (End)	clear colorless odorless
Average Purge Rate (mL/min)	0.25	Total Drawdown (ft)	—
Well Went Dry (Y/N)	N	Stop Time —	Volume removed (L) —
Recovery Time	—	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L)	11.25	Total Pump Time (min)	45

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/3/21	0956	0.25	—	6.93	0.573	20.51	79	1.9	7.50	—
	1001	0.25	1.25	7.15	0.588	16.26	81	0.0	9.58	—
	1006	0.25	2.50	7.20	0.587	15.93	81	0.0	9.46	—
	1011	0.25	3.75	7.23	0.587	15.70	81	0.0	9.41	—
	1016	0.25	5.00	7.25	0.587	15.82	92	0.0	9.20	—
	1021	0.25	6.25	7.25	0.588	15.83	82	0.0	9.11	—
	1026	0.25	7.50	7.26	0.587	15.80	93	0.0	10.50	—
	1031	0.25	8.75	7.27	0.585	16.10	83	0.0	8.85	—
	1036	0.25	10.00	7.27	0.584	16.14	82	0.0	8.77	—
	1041	0.25	11.25	7.27	0.584	16.25	82	0.0	8.53	—

COMMENTS No water level was taken during purge and Gauged after Sampled due to PFAS, N/O well cover or J-plug on well

SAMPLE COLLECTION

Sample Date	8/3/21	Sample Time	1041
Sample ID	MW-86-X3		
QA/QC Collected / ID	—	Sample Appearance/Odor	Clear, colorless, odorless
Analyses	VOCs, TAL metals, D's, metals, PFAS		
Sampler	NR LBL HY	Signature	

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Haviland Complex	Project No:	60523/6005
Well ID	MW-99-04	Date	8/3/21
Well Site Description	Haviland middle school	Page	1 of 1
Weather/Temp	73°F Overcast	Time	1258
Field Technician	NR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl)	NA	Screened Interval (ft bgs)	unknown
Well Diameter (in.)	4	Nominal Borehole Diameter (in.)	

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft)	39.50 bgs	Gallons per foot of depth	0.653
Depth to product (ft)	NA	Static water level (ft)	12.52 ft bgs
Product column height (ft)	NA	Water column height (ft)	26.98
Product volume (Gallons)	NA	Water volume (Gallons)	17.61

PURGE INFORMATION

Pump Type / ID	Peri	Water Quality Meter Type / ID	Horiba U-52 04670
Pump Intake Depth (ft)	~2 ft from bottom	Flow-Thru Cell Volume (L)	
Purge Start Time	1301	Appearance/Odor (Start)	Clear, colorless odorless
Purge End Time	1335	Appearance/Odor (End)	Clear Colorless, Odorless
Average Purge Rate (mL/min)	0.30	Total Drawdown (ft)	—
Well Went Dry (Y/N)	N	Stop Time	—
Volume removed (L)	—	Recovery Time	—
Recovery Rate (mL/min)	—	Restart Purge Time	—
Total Volume Removed (L)	7.5	Total Pump Time (min)	25

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/3/21	1302	0.30	—	7.25	0.624	23.87	41	0.0	2.49	—
	1307	0.30	1.5	7.12	0.657	19.27	53	0.0	1.67	—
	1312	0.30	3.0	7.10	0.670	18.53	52	0.0	1.59	—
	1317	0.30	4.5	7.09	0.680	18.68	50	0.0	1.57	—
	1322	0.30	6.0	7.09	0.679	18.73	49	0.0	1.54	
	1327	0.30	7.5	7.09	0.679	18.60	47	0.0	1.53	

COMMENTS No water levels during purge and gauged after sampling due to PFAS

SAMPLE COLLECTION

Sample Date	8/3/21	Sample Time	1327
Sample ID	MW-99-04		
QA/QC Collected / ID	DUP-080321	Sample Appearance/Odor	Clear Colorless odorless
Analyses	VOCs, TAL metals, Dis. metals, PFAS		
Sampler	NR LBL HY	Signature	

WELL PURGING AND SAMPLING RECORD

Site Name/Location	Haviland Complex	Project No: 160252/0005	Page 1 of 1
Well ID	~~MW-27 (MD)~~ ~~MW-86-27~~ MW-86-27	Date 8/3/21	Time 1400
Well Site Description	B.U Reynolds blvd		
Weather/Temp	75°F overcast		
Field Technician	NR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 223	Screened Interval (ft bgs) 50-60
Well Diameter (in.) 2 metal stickup	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 62.67	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 5.13 TOC
Product column height (ft) NA	Water column height (ft) 27.54
Product volume (Gallons) NA	Water volume (Gallons) 4.49

PURGE INFORMATION

Pump Type / ID	Peri 8954 8	Water Quality Meter Type / ID	Horiba U-52 0414020
Pump Intake Depth (ft)	~27ft From bottom	Flow-Thru Cell Volume (L)	
Purge Start Time	1405	Appearance/Odor (Start)	Reddish Brown, clear odorless
Purge End Time	1500	Appearance/Odor (End)	
Average Purge Rate (mL/min)	0.30	Total Drawdown (ft)	
Well Went Dry (Y/N)	N	Stop Time —	Volume removed (L) —
Recovery Time —		Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L)	15.0	Total Pump Time (min)	50

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/3/21	1406	0.30	—	7.69	0.721	24.17	38	689	5.01	—
	~~1411~~	0.30	1.5	7.46	0.817	22.36	54	174	3.02	—
	1416	0.30	3.0	7.43	0.810	22.18	57	115	2.88	—
	1421	0.30	4.5	7.42	0.811	21.07	59	704	2.94	—
	1426	0.30	6.0	7.41	0.809	21.30	60	44.5	3.02	—
	1431	0.30	7.5	7.40	0.859	18.90	62	23.5	3.46	—
	1436	0.30	9.0	7.38	0.859	18.11	64	10.2	3.66	—
	1441	0.30	10.5	7.36	0.859	17.92	67	5.1	4.06	—
	1446	0.30	12.0	7.34	0.859	17.79	68	0.0	3.89	—
	1451	0.30	13.5	7.32	0.856	17.65	70	0.0	3.93	—
	1456	0.30	15.0	7.31	0.858	17.57	71	0.0	3.98	—

COMMENTS No water level during purging and gauged after sampling due to PFAS

SAMPLE COLLECTION

Sample Date 8/3/21	Sample Time 1456
Sample ID MW-86-27	
QA/QC Collected / ID —	Sample Appearance/Odor Clear, colorless, odorless
Analyses VOCs, TAL metals, Dis. metals, PFAS	
Sampler NR LBL HY	Signature

WELL PURGING AND SAMPLING RECORD

Site Name/Location ~~Hartford~~ (UTC) Hazlant Complex	Project No: 160252360	Page 1 of 1
Well ID MW-12	Date 8/3/21	Time 1525
Well Site Description off of Wright Ave		
Weather/Temp 78 Overcast		
Field Technician NR LBL HY		

WELL CONSTRUCTION DATA

TOC Elevation (ft amsl) 27	Screened Interval (ft bgs) 8-18
Well Diameter (in.) 2 Stickup	Nominal Borehole Diameter (in.)

FIELD MEASUREMENTS

Well Depth (gauge after sampling) (ft) 20.05 TOC	Gallons per foot of depth 0.163
Depth to product (ft) NA	Static water level (ft) 13.34 TOC
Product column height (ft) NA	Water column height (ft) 6.71
Product volume (Gallons) NA	Water volume (Gallons) 1.09

PURGE INFORMATION

Pump Type / ID Peri: 19548		Water Quality Meter Type / ID Horiba U-52 04070
Pump Intake Depth (ft) 16 ft		Flow-Thru Cell Volume (L) —
Purge Start Time 1529		Appearance/Odor (Start) Clear, colorless, odorless
Purge End Time 1600		Appearance/Odor (End) Clear, colorless, odorless
Average Purge Rate (mL/min) 0.30		Total Drawdown (ft) 0.00
Well Went Dry (Y/N) N	Stop Time —	Volume removed (L) —
Recovery Time —	Recovery Rate (mL/min) —	Restart Purge Time —
Total Volume Removed (L) 7.5		Total Pump Time (min) 25

Date	Time	Purge Rate (mL/min)	Volume Removed (LPM)	pH (+/-0.1)	Cond. (µS/cm) (+- 3%)	Temp. (°C) (+- 3%)	ORP (mV) (+/- 10)	Turbidity (NTU) +/-10% or <5 NTU	DO (mg/L) +/-10% or <0.5 mg/L	Depth to Water (ft below TOC)
8/3/21	1531	0.30	—	7.44	0.616	20.56	57	45.0	4.60	13.35
	1536	0.30	1.5	6.85	0.638	17.71	79	0.0	3.35	13.35
	1541	0.30	3.0	6.66	0.642	17.38	83	0.0	3.33	13.35
	1546	0.30	4.5	6.59	0.649	17.46	85	0.0	3.44	13.35
	1551	0.30	6.0	6.57	0.651	17.47	86	0.0	3.48	13.35
	1556	0.30	7.5	6.55	0.650	17.55	88	0.0	3.44	13.35

COMMENTS _____

SAMPLE COLLECTION

Sample Date 8/3/21	Sample Time 1556
Sample ID MW-12	
QA/QC Collected / ID —	Sample Appearance/Odor Clear, colorless, odorless
Analyses VOCs, Tot. metals, Dis. metals	
Sampler NR LBL HY	Signature

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Appendix D

Data Usability Summary Report

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ENVIRONMENTAL DATA SERVICES, LTD.

DATA VALIDATION REPORT

Haviland Complex

SDGs J188016

Chemical Analyses Performed by:

Eurofins TestAmerica Buffalo and,
Eurofins TestAmerica Burlington

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science and Technology, Inc.

November 12, 2021

5 Brilliant Avenue, Pittsburgh, PA 15215
412.408.3288 I www.eds-pa.com

ENVIRONMENTAL DATA SERVICES, LTD.

DATA USABILITY SUMMARY REPORT FOR TOTAL AND DISSOLVED METALS AND MERCURY

PROJECT: Haviland Complex

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Eurofins TestAmerica, Buffalo

SAMPLE DELIVERY GROUP: J188016-1

SAMPLE DATES: 08/02/2021, 08/03/2021

The above sample delivery group (SDG) consists of the following samples:

Client Sample ID	Laboratory Sample ID
MW-99-03	480-188016-1
MW-86-24A	480-188016-2
MW-99-01	480-188016-3
MW-86-28	480-188016-4
MW-12	480-188016-5
MW-86-1SH	480-188016-6
MW-86-X3	480-188016-7
MW-99-02	480-188016-8
MW-99-04	480-188016-9
MW-86-27	480-188016-10
DUP-080321	480-188016-11

The samples described above were analyzed via United States Environmental Protection Agency (USEPA) SW-846 Method 6010D to determine the concentrations of metals and Method 7470 and 7471 to determine mercury concentrations.

Project specific quality assurance (QA) objectives and the USEPA Region II SOP, Hazardous Waste Support Section SOP No. HW-3a Revision 1 ISM02.2 ICP-AES Data Validation, September 2016, SOP No. HW-2C, Rev. 15 Mercury and Cyanide Data Validation, December 2012, and the United States Environmental Protection Agency (USEPA) Contract Laboratory National Functional Guidelines for Inorganic Superfund Methods Data Review, OLEM 9355.0-135, EPA-540-R-2017-001, (USEPA 2017) have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with “R”, rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

All data users should note two facts. First, an "R" flag means that the associated value is unusable due to significant quality control (QC) problems, the data is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on any data tables even as a last resort. Second, no analyte concentration, even if it passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes in the samples whose holding time has been exceeded will be qualified as estimated, "J-", or unusable, "R", if holding times are grossly exceeded.

The samples in this delivery group were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples contained in this delivery group were prepared and analyzed within the holding times established in the method and validation criteria.

BLANK CONTAMINATION

Quality assurance blanks, which include method, trip, field, or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blank Contamination

Method blanks were evaluated at the proper frequency. Upon evaluation, no target analytes were found above the method detection limit (MDL) in any associated method blank with the following exceptions.

Total manganese was positively detected in method blank (MB 480-592076/1-A). All samples in this SDG are associated with this non-compliant method blank. Positive sample results for total manganese have been evaluated and qualified per validation guidance as appropriate.

Dissolved manganese and zinc were positively detected in method blank (MB 480-592077/1-A). All samples in this SDG are associated with this non-compliant method blank. Positive sample results for dissolved manganese and zinc have been evaluated and qualified per validation guidance as appropriate.

Field or Rinse Blank Contamination

No field/rinse blank was submitted in association with these samples.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. The initial calibration curve and its verification demonstrate that the instrument is capable of giving acceptable performance at the beginning of the analytical sequence. The continuing calibration verification standards provide information as to the continuing stability of the calibration curve.

Initial and Continuing Calibration Verification

All initial and continuing calibration verifications that bracketed sample analyses associated with the sample delivery group were within acceptance limits (90-110% recovery for all metals exception mercury and cyanide 85-115%).

Initial and Continuing Calibration Blanks

All initial and continuing calibration blanks (ICB/CCBs) were analyzed at the proper frequency. Qualification of sample results due to ICB contamination affects all samples in the analytical sequence while CCB contamination only affects samples immediately after or before the non-compliant CCB. If the highest level of contamination is found in the field or method blank, all samples are qualified based on that observation.

All instrument blanks (ICB and CCB) associated with the samples in this SDG were evaluated. No problems were found for this criterion.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample MW-99-03 was submitted for both total and dissolved MS/MSD evaluation for ICP metals and mercury in association with this SDG. No problems were found for this criterion.

LABORATORY DUPLICATE

No laboratory duplicate analyses were performed in association with these samples.

LABORATORY CONTROL SAMPLE

The laboratory control sample (LCS) is a quality control sample of known concentration, which is processed along with a batch of samples. The percent recovery of the LCS can be used to assess the accuracy of the analytical procedure performed by a specific individual, during a specific time period, and utilizing the same reagents and equipment as those used for sample analyses. The LCS data is independent of sample matrix and the results may formulate a basis for qualification.

Laboratory control samples and LCS duplicates were processed at the proper frequency. Upon evaluation, all precision and accuracy indicators were favorable.

FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples MW-99-04 and DUP-080321 were analyzed as both a total and dissolved field duplicate pairs in association with this SDG. Adequate field precision was demonstrated.

ICP INTERFERENCE CHECK SAMPLE

An ICP interference check sample (ICS) was analyzed for ICP-AES. All elements in the ICP-AES interference check sample solution ICSA were found to be within acceptance limits (+/- CRQL of the true/mean value or +/-20% of the true value, whichever is greater) for the aqueous matrix. All elements in the ICP-AES solution ICSAB exhibited acceptable recoveries (80-120% limits).

ICP SERIAL DILUTION

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. If the analyte concentration is sufficiently high (concentration in the original sample is greater than 50 times the MDL, the percent difference between the original determination and the serial dilution analysis (a five-fold dilution) after correction for dilution shall be less than 10. For a serial dilution analysis that does not meet the technical criteria, the action was applied to all samples of the same matrix.

Sample MW-99-03 was analyzed as a total and dissolved serial dilution in association with the samples in this SDG. No problems were found with this criterion.

OTHER

None.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Metals		Major	Minor
Holding Time/Sample Handling	x		
Method Blank			x
Field or Rinse Blank	NA		
Initial Calibration	x		
Initial and Continuing Calibration Verification	x		
Initial and Continuing Calibration Blanks	x		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Duplicate	NA		
Laboratory Control Sample	x		
Field Duplicate	x		
ICP Interference Check Sample	x		
ICP Serial Dilution	x		
Other	x		

	Were acceptance criteria met?		
	Yes	No	
Mercury		Major	Minor
Holding Time	x		
Calibration	x		
Blank Contamination	x		
Laboratory Control Samples	x		
Matrix Spike/Matrix Spike Duplicate	x		
Field Duplicate	x		
Other Quality Control Data out of Specification	x		

Major= Major data quality issue identified resulting in rejection of data.
Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

ENVIRONMENTAL DATA SERVICES, LTD.

DATA USABILITY SUMMARY REPORT FOR PER-FLUORINATED COMPOUNDS

PROJECT: Haviland Complex

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Eurofins TestAmerica, Burlington

SAMPLE DELIVERY GROUPS: J188016-1

SAMPLE DATES: 08/03/2021

The above sample delivery groups consist of the following samples:

Client Sample ID	Laboratory Sample ID
MW-86-1SH	480-188016-6
MW-86-X3	480-188016-7
MW-99-02	480-188016-8
MW-99-04	480-188016-9
MW-86-27	480-188016-10
DUP-080321	480-188016-11
FB-080321	480-188016-13
EB-080321	480-188016-14

The samples described above were analyzed via USEPA 537 to determine concentrations of selected per-fluorinated alkyl acids (PFAAs), perfluorooctanoic acids (PFOA), and perfluorooctyl sulfonates (PFOS).

Performance criteria specified in the analytical method, USEPA 537, Determination of Selected Per-fluorinated Alkyl Acids (PFAAs) in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS), Version 1.1, September 2009; as well as the USEPA National Functional Guidelines for Organic Superfund Methods Data Review, 2017, have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with “R,” rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, “All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.”

HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were received by the laboratory within the proper temperature range as specified in the validation and method guidance.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation and method specified guidelines.

BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this delivery group at the specified frequency. Upon examination of the method blank data, Perfluorobutanesulfonic acid (PFBS) was positively identified. Perfluorobutanesulfonic acid (PFBS) was positively identified at a similar concentration in the instrument calibration blank. Therefore, method blank contamination was not a factor requiring qualification of data. See below for sample qualifications.

Field Blanks

Samples FB-080321 and EB-080321 were submitted as field/equipment blanks in association with this sample delivery group (SDG). Upon examination of the field blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in the associated field blanks with the following exceptions. Perfluorobutanesulfonic acid (PFBS) was positively identified in both FB-080321 and EB-080321. Perfluorobutanesulfonic acid (PFBS) was positively identified at a similar concentration in the instrument calibration blank. Therefore, field/equipment blank contamination was not a factor requiring qualification of data. See below for sample qualifications.

Initial and Continuing Calibration Blanks

All initial and continuing calibration blanks (ICB/CCBs) were analyzed at the proper frequency. Qualification of sample results due to ICB contamination affects all samples in the analytical sequence while CCB contamination only affects samples immediately after or before the non-compliant CCB. If the highest level of contamination is found in the field or method blank, all samples are qualified based on that observation.

No analytes were detected in any instrument blank (ICB or CCB) associated with the samples in this SDG with the following exception.

The following analytes were positively identified in both the ICB associated with all field samples in this SDG.

Perfluoroheptanoic acid (PFHpA)	Perfluorononanoic acid (PFNA)
Perfluorodecanoic acid (PFDA)	Perfluorobutanesulfonic acid (PFBS)
Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptanesulfonic Acid (PFHpS)
Perfluorooctanesulfonic acid (PFOS)	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	

Positive sample results for the impacted analytes have been evaluated and qualified per validation guidance as appropriate.

PEAK ASYMMETRY FACTOR

A peak asymmetry factor must be calculated initially and every time a calibration curve is generated. The peak asymmetry factor for the first two eluting peaks in a midlevel calibration standard must fall in the range of 0.8 to 1.5.

Peak asymmetry factors were not provided and therefore were not assessed.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a “closing” calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument’s daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be <20%.

An RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD >90%) requires rejection of non-detected results.

The %D for all analytes and surrogates in the continuing calibration must be <30% with the exception of the lowest level continuing calibration which must have all a %D for all analytes <50% and surrogates <30%.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ.”

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria.

Note: both an opening and closing continuing calibration were performed.

INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the liquid chromatograph/tandem mass spectrometer (LC/MS/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than +/- 50% from the associated midlevel initial calibration standard. The retention time of the internal standard must not vary by more than +/-30 seconds from the associated midlevel initial calibration standard. The area count must be within -50% to 150% range of the associated standard. If area count is >150%, non-detected results are not qualified while positive results are qualified "J," estimated. When an observed area count is <50%, results are qualified “J” or “UJ” as appropriate; however, should area counts be <25%, all associated non-detects are qualified “R,” rejected.

The reported sample analyses and associated method blank had internal standard areas and retention times within QC criteria in all cases.

SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

The reported sample analyses and method blank had observed surrogate recoveries within the established limits (recovery 70-130%).

COMPOUND IDENTIFICATION

Per-fluorinated Compounds

The project target analyte compounds are identified on the LC/MS/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within $\pm$0.06 RRT units of the standard compound and have ion spectra with primary and secondary characteristic ions present. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications. For all target analytes used for qualification, the signal to noise ratio should be 3:1 or greater.

All samples were evaluated at a Stage level 4. Compound identification verification was performed at this validation level and all identification criteria were met for positive results reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix. Accuracy and precision are not evaluated when the amount of an analyte native to the sample is greater than four times the amount of spike added during the matrix spike determination.

Sample MW-86-1SH was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation all precision and accuracy indicators were favorable.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

One associated LCS evaluation was performed, all observed recoveries were found to be acceptable (medium level spike added recovery 70-130%).

REPORTING

No dilutions, re-extractions, or other re-analyses were performed.

OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

None.

FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples MW-99-04 and DUP-080321 comprise the field duplicate pair collected in association with this SDG. Upon evaluation adequate field precision was demonstrated.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Per-fluorinated Compounds		Major	Minor
Holding Time/Sample Handling	x		
Laboratory Blanks			x
Field Blanks	x		
Peak Asymmetry Factor	NA		
Calibration Percent Relative Standard Deviation and Percent Difference	x		
Internal Standards Performance	x		
Surrogates	x		
Compound Identification	x		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample	x		
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.
Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
UJ-	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise, and the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

ENVIRONMENTAL DATA SERVICES, LTD.

DATA USABILITY SUMMARY REPORT FOR VOLATILES

PROJECT: Haviland Complex

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Eurofins TestAmerica, Buffalo

SAMPLE DELIVERY GROUPS: J188016-1

SAMPLE DATES: 08/02/2021 and 08/03/2021

The above sample delivery group (SDG) consists of the following samples:

Client Sample ID	Laboratory Sample ID
MW-99-03-20210802	480-188016-1
MW-86-24A-20210802	480-188016-2
MW-99-01-20210802	480-188016-3
MW-86-28-20210802	480-188016-4
MW-12-20210803	480-188016-5
MW-86-1SH-20210803	480-188016-6
MW-86-X3-20210803	480-188016-7
MW-99-02-20210803	480-188016-8
MW-99-04-20210803	480-188016-9
MW-86-27-20210803	480-188016-10
DUP-080321-20210803	480-188016-11
TB-080321-20210803	480-188016-12

The samples described above were analyzed via USEPA SW-846 8260C to determine the concentrations of low/medium volatile organic analytes (VOAs).

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8260B & 8260C, SOP NO. HW-24 Revision 4, September 2014 have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with “R,” rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, “All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.”

HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were received by the laboratory within the proper temperature range as specified in the validation guidance. Note, upon sample receipt, the sample identification and collection date for the Trip Blank sample were changed to match the sample date, not when it was provided.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

Method blanks were prepared and analyzed in association with the samples in this delivery group at the specified frequency. Upon examination of method blank data, no analyte was positively identified at a concentration equal to or above the method detection limit (MDL) in any associated method blank.

Storage Blanks

No storage blanks were submitted in association with this sample delivery group (SDG).

Trip Blanks

Sample TB-080321 is the trip blank submitted in association with this SDG. No problems were found.

Field Blanks

No samples were submitted as field blanks in association with this SDG.

MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with this SDG were fully compliant.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a “closing” calibration verification, and ascertains acceptable performance at the conclusion of the analytical sequence.

Response Factor

The relative response factor (RRF) measures the instruments responses to specific chemical compounds. The RRFs for the VOA target compound list (TCL) compounds must be greater than the RRFs listed in Region II validation guidelines. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is below the specified limit for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibrations for method 8260 were found to be acceptable in all cases.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument’s daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be ≤20%.

A %RSD value outside initial calibration limit indicates the potential for quantitation errors. For this reason, all positive results are qualified as estimated and non-detect results are qualified using professional judgement.

The %D for opening continuing calibration must be ≤30%.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as “J,” estimated, and non-detects are qualified with "UJ."

All initial calibration and continuing calibration %RSD and %D values were within defined QC criteria for method 8260 with the following exceptions.

The observed %D for 1,2-dibromo-3-chloropropane did not meet acceptance criteria during ICV (480-590807/27). All samples in this SDG are associated with the noncompliant ICV. The non-detected results reported for the impacted analyte in the associated samples have been qualified “UJ” on this basis.

The observed %D for dibromochloromethane and bromoform did not meet acceptance criteria during CCV (480-592153/3). Samples listed below are associated with the noncompliant CCV.

MW-99-03	MW-12	MW-99-04
MW-86-24A	MW-86-1SH	MW-86-27
MW-99-01	MW-86-X3	DUP-080321
MW-86-28	MW-99-02	

The non-detected results reported for the impacted analytes in the associated samples have been qualified "UJ" on this basis.

The observed %D for dibromochloromethane and 1,2-dibromo-3-chloropropane did not meet acceptance criteria during CCV (480-592370/4). Sample TB-080321 is associated with the noncompliant CCV. The non-detected results reported for the impacted analytes in TB-080321 have been qualified "UJ" on this basis.

INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatography/mass spectrometry (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than +/- 30 seconds from the associated continuing calibration standard. The area count must be within -50% to +200% range of the associated standard. If area count is >200%, non-detected results are not qualified while positive results associated with the non-compliant internal standard are qualified "J," estimated. However, when an observed area count is <50%, positive results associated with the non-compliant are qualified "J," estimated, while non-detected results are rejected.

Internal standard area counts are within acceptance criteria for all samples.

SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique. The observed recovery must be within laboratory limits as outlined in the project specific validation guidance.

The reported sample analyses and method blank analyses had observed surrogate recoveries within the established acceptance limits for method 8260 in all cases.

COMPOUND IDENTIFICATION

Volatile

The project target analyte compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within $\pm$0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All samples were evaluated, and all identification criteria were met for method 8260. Therefore, no analytes were qualified for compound identification.

Volatile Tentatively Identified Compounds

Tentatively Identified Compounds (TICs) were reported by the laboratory and reviewed for quality assurance. For all TIC results where there is presumptive evidence of a match, being greater than or equal to 85% match, the results are qualified “NJ,” tentatively identified. If the non-target compound is reported as an unknown, the result is qualified “J,” estimated. Likewise, if it is determined that the identification of a TIC is unacceptable, the tentative identification of the compound is changed to “unknown” and the result is qualified “J,” estimated.

No volatile TICs were reported.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample MW-99-03 was submitted for MS/MSD evaluation in association with this sample delivery group (SDG). Upon evaluation precision and accuracy indicators were favorable with the following exceptions. The observed recovery for 1,2-dibromo-3-chloropropane was higher than the highest acceptance limit during both the MS and MSD evaluations. The parent sample result for the impacted analyte is non-detected, therefore, no qualification was necessary on this basis.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

LCS evaluations were processed at the proper frequency. All precision and accuracy criteria were found to be favorable with the following exceptions.

The LCS (480-592153/5) associated with the samples listed below in this SDG had observed recoveries for 1,2-dibromo-3-chloropropane, bromoform, and dibromochloromethane that are higher than the highest acceptance limits in both the LCS and LCSD.

MW-99-03	MW-12	MW-99-04
MW-86-24A	MW-86-1SH	MW-86-27
MW-99-01	MW-86-X3	DUP-080321
MW-86-28	MW-99-02	

All results reported for the above-mentioned analytes were non-detected, therefore, validation action was not required.

The LCS (480-592370/6) associated with sample TB-080321 had observed recoveries for 1,2-dibromo-3-chloropropane, 2-hexanone, and dibromochloromethane that are higher than the highest acceptance limits. All sample results reported for the impacted analytes were non-detected, therefore, validation action was not required.

REPORTING

No dilutions, re-extractions, or re-analyses were present in this SDG.

OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

None.

FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples MW-99-04 and DUP-080321 were submitted as field duplicate pair in association with this SDG. Upon evaluation adequate field precision was demonstrated.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
Volatiles 8260		Major	Minor
Holding Time	x		
Method Blanks	x		
Storage Blanks	NA		
Trip Blanks	x		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference			x
Internal Standards	x		
Surrogates	x		
Compound Identification - Volatile	x		
Tentatively Identified Compounds - Volatile	NA		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample/Laboratory Control Sample Duplicate	x		
Other Quality Control Data out of Specification	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.
Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.
NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

Appendix E

Analytical Data

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ANALYTICAL REPORT

Job Number: 480-188016-1

Job Description: SMP C - Haviland Complex

Contract Number: C100700

For:
New York State D.E.C.
625 Broadway
Division of Environmental Remediation
Albany, NY 12233-7014

Attention: Sarah Saucier



Approved for release.
Wyatt B Watson
Project Management Assistant I
8/18/2021 3:37 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
Judy.Stone@Eurofinset.com
08/18/2021

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

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Job Narrative
480-188016-1

Comments
No additional comments.

Receipt
The samples were received on 8/5/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9º C and 3.3º C.

Receipt Exceptions
The sample ID and collection date for the Trip Blank sample were changed to match the sample date, not when it was provided.

TB-080321 (480-188016-12)

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) for analytical batch 480-592153 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane, Bromoform and Dibromochloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated samples are impacted: MW-99-03 (480-188016-1), MW-86-24A (480-188016-2), MW-99-01 (480-188016-3), MW-86-28 (480-188016-4), MW-12 (480-188016-5), MW-86-1SH (480-188016-6), MW-86-X3 (480-188016-7), MW-99-02 (480-188016-8), MW-99-04 (480-188016-9), MW-86-27 (480-188016-10) and DUP-080321 (480-188016-11).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-592153 recovered above the upper control limit for Carbon tetrachloride and Dibromochloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-99-03 (480-188016-1), MW-86-24A (480-188016-2), MW-99-01 (480-188016-3), MW-86-28 (480-188016-4), MW-12 (480-188016-5), MW-86-1SH (480-188016-6), MW-86-X3 (480-188016-7), MW-99-02 (480-188016-8), MW-99-04 (480-188016-9), MW-86-27 (480-188016-10) and DUP-080321 (480-188016-11).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-592370 recovered above the upper control limit for Carbon tetrachloride, 2-Hexanone and Chlorodibromomethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TB-080321 (480-188016-12).

Method 8260C: The laboratory control sample (LCS) for analytical batch 480-592370 recovered outside control limits for the following analytes: 2-Hexanone, Chlorodibromomethane and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The associated sample is impacted: TB-080321 (480-188016-12).

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

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

LCMS
Method 537 (modified): The method blank for preparation batch 200-170043 and analytical batch 200-170086 contained Perfluorobutanesulfonic acid (PFBS) above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

Sample Summary

Client: New York State D.E.C.
Job ID: 480-188016-1
Project/Site: SMP C - Haviland Complex

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-188016-1	MW-99-03	Water	08/02/21 11:51	08/05/21 10:00
480-188016-2	MW-86-24A	Water	08/02/21 13:40	08/05/21 10:00
480-188016-3	MW-99-01	Water	08/02/21 14:39	08/05/21 10:00
480-188016-4	MW-86-28	Water	08/02/21 15:46	08/05/21 10:00
480-188016-5	MW-12	Water	08/03/21 15:56	08/05/21 10:00
480-188016-6	MW-86-1SH	Water	08/03/21 09:13	08/05/21 10:00
480-188016-7	MW-86-X3	Water	08/03/21 10:41	08/05/21 10:00
480-188016-8	MW-99-02	Water	08/03/21 12:00	08/05/21 10:00
480-188016-9	MW-99-04	Water	08/03/21 13:27	08/05/21 10:00
480-188016-10	MW-86-27	Water	08/03/21 14:56	08/05/21 10:00
480-188016-11	DUP-080321	Water	08/03/21 00:00	08/05/21 10:00
480-188016-12	TB-080321	Water	08/03/21 00:00	08/05/21 10:00
480-188016-13	FB-080321	Water	08/03/21 16:40	08/05/21 10:00
480-188016-14	EB-080321	Water	08/03/21 16:45	08/05/21 10:00

Detection Summary

Client: New York State D.E.C.
Job ID: 480-188016-1
Project/Site: SMP C - Haviland Complex

Client Sample ID: MW-99-03
Lab Sample ID: 480-188016-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.11	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.094		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	40.1		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.016		0.0040	0.0010	mg/L	1		6010C	Total/NA
Copper	0.0061	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.062		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	14.3		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0051	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.017		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	1.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	22.8		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0028	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.096		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	39.4		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.015		0.0040	0.0010	mg/L	1		6010C	Dissolved
Copper	0.0056	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Magnesium	14.0		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.00047	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.016		0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	1.9		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	22.6		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0046	J B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: MW-86-24A
Lab Sample ID: 480-188016-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.0		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	1.3		1.0	0.46	ug/L	1		8260C	Total/NA
Aluminum	0.37		0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.023		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	42.1		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.14		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0014	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0018	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.1		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	5.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.035	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.11		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	1.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	122		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0061	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Aluminum	0.075	J	0.20	0.060	mg/L	1		6010C	Dissolved
Barium	0.021		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	40.0		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.063		0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.0015	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Iron	0.38		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	4.9		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.031	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.13		0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	1.2		0.50	0.10	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-86-24A (Continued)
Lab Sample ID: 480-188016-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	121		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0062	J	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: MW-99-01
Lab Sample ID: 480-188016-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.8		1.0	0.79	ug/L	1		8260C	Total/NA
1,3-Dichlorobenzene	2.2		1.0	0.78	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	2.1		1.0	0.84	ug/L	1		8260C	Total/NA
Chlorobenzene	4.7		1.0	0.75	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.76	J	1.0	0.36	ug/L	1		8260C	Total/NA
Aluminum	0.18	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.028		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	79.4		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.21		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0031	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0023	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.89		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	8.1		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	4.2	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.038		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.3		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	77.7		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0020	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Aluminum	0.067	J	0.20	0.060	mg/L	1		6010C	Dissolved
Barium	0.020		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	77.2		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.028		0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.0018	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Iron	0.21		0.050	0.019	mg/L	1		6010C	Dissolved
Magnesium	7.9		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	3.1	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.016		0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	2.3		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	75.6		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0018	J	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: MW-86-28
Lab Sample ID: 480-188016-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	0.13	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.049		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	52.3		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0017	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	2.3		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	12.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.33	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	142		1.0	0.32	mg/L	1		6010C	Total/NA
Barium	0.050		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	52.2		0.50	0.10	mg/L	1		6010C	Dissolved
Iron	2.5		0.050	0.019	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-86-28 (Continued)
Lab Sample ID: 480-188016-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	12.9		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.34	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	1.9		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	142		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.013	B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: MW-12
Lab Sample ID: 480-188016-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.45	J	1.0	0.36	ug/L	1		8260C	Total/NA
Aluminum	0.070	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.024		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	43.5		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	5.4		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.00069	J B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.8		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	75.6		1.0	0.32	mg/L	1		6010C	Total/NA
Barium	0.023		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	41.3		0.50	0.10	mg/L	1		6010C	Dissolved
Magnesium	5.2		0.20	0.043	mg/L	1		6010C	Dissolved
Potassium	2.9		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	72.9		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0024	J B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: MW-86-1SH
Lab Sample ID: 480-188016-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.2		4.7	0.85	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	17		1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	17		1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.5		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.9		1.9	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.9		1.9	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.29	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.6	B	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.38	J	1.9	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	17		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Aluminum	0.069	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.035		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	70.9		0.50	0.10	mg/L	1		6010C	Total/NA
Copper	0.0032	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Magnesium	7.7		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.00082	J B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	1.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	128		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0015	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.036		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	69.4		0.50	0.10	mg/L	1		6010C	Dissolved
Magnesium	7.5		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.0017	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-86-1SH (Continued)
Lab Sample ID: 480-188016-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	1.2		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	125		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0039	J B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: MW-86-X3
Lab Sample ID: 480-188016-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	8.2		4.9	0.88	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	18		2.0	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	18		2.0	0.44	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6		2.0	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	9.0		2.0	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.1	J	2.0	0.28	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.62	J	2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.9	J B	2.0	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.1	J	2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.33	J	2.0	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	23		2.0	0.29	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonamide (FOSA)	1.5	J	2.0	0.57	ng/L	1		537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.84	J	4.9	0.73	ng/L	1		537 (modified)	Total/NA
Aluminum	0.061	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.020		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	64.6		0.50	0.10	mg/L	1		6010C	Total/NA
Iron	0.035	J	0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	5.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0031	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Potassium	2.2		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	41.7		1.0	0.32	mg/L	1		6010C	Total/NA
Barium	0.020		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	63.6		0.50	0.10	mg/L	1		6010C	Dissolved
Magnesium	5.3		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.00044	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Potassium	2.3		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	41.3		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0025	J B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: MW-99-02
Lab Sample ID: 480-188016-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.9		1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	0.53	J	1.0	0.46	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	8.9		4.9	0.87	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.8		2.0	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	7.7		2.0	0.44	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.9		2.0	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	16		2.0	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.1		2.0	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.55	J	2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.5	B	2.0	0.24	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-99-02 (Continued)
Lab Sample ID: 480-188016-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	3.9		2.0	0.30	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.53	J	2.0	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	25		2.0	0.28	ng/L	1		537 (modified)	Total/NA
Aluminum	0.067	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.035		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	98.8		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.51		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0059		0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0023	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	1.2		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	9.8		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.87	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.083		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	2.1		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	124		1.0	0.32	mg/L	1		6010C	Total/NA
Barium	0.029		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	95.8		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0014	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Cobalt	0.0024	J	0.0040	0.00063	mg/L	1		6010C	Dissolved
Copper	0.0016	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Magnesium	9.5		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.33	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.019		0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	2.3		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	121		1.0	0.32	mg/L	1		6010C	Dissolved

Client Sample ID: MW-99-04
Lab Sample ID: 480-188016-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.6	J	4.8	0.86	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.57	J	1.9	0.46	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.51	J	1.9	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.72	J B	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Barium	0.045		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	115		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0013	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	0.062		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	10.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0047	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0034	J	0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	0.84		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	18.2		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0019	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.046		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	113		0.50	0.10	mg/L	1		6010C	Dissolved
Copper	0.0076	J	0.010	0.0016	mg/L	1		6010C	Dissolved
Magnesium	10.4		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.00060	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0029	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	0.85		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	18.2		1.0	0.32	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-99-04 (Continued)
Lab Sample ID: 480-188016-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.0061	J B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: MW-86-27
Lab Sample ID: 480-188016-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.50	J	1.0	0.34	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	11		4.8	0.86	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	32		1.9	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	27		1.9	0.43	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.5		1.9	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	15		1.9	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.7	J	1.9	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	2.4	B	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.8	J	1.9	0.29	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.46	J	1.9	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	21		1.9	0.28	ng/L	1		537 (modified)	Total/NA
Aluminum	0.071	J	0.20	0.060	mg/L	1		6010C	Total/NA
Barium	0.028		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	76.3		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.19		0.0040	0.0010	mg/L	1		6010C	Total/NA
Cobalt	0.0010	J	0.0040	0.00063	mg/L	1		6010C	Total/NA
Copper	0.0045	J	0.010	0.0016	mg/L	1		6010C	Total/NA
Iron	0.91		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	6.2		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.014	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.019		0.010	0.0013	mg/L	1		6010C	Total/NA
Potassium	0.75		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	89.7		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0016	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.027		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	74.6		0.50	0.10	mg/L	1		6010C	Dissolved
Chromium	0.0028	J	0.0040	0.0010	mg/L	1		6010C	Dissolved
Magnesium	6.0		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.0012	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0025	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	0.76		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	88.6		1.0	0.32	mg/L	1		6010C	Dissolved

Client Sample ID: DUP-080321
Lab Sample ID: 480-188016-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	1.7	J	4.7	0.85	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.45	J	1.9	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.72	J B	1.9	0.24	ng/L	1		537 (modified)	Total/NA
Barium	0.045		0.0020	0.00070	mg/L	1		6010C	Total/NA
Calcium	116		0.50	0.10	mg/L	1		6010C	Total/NA
Chromium	0.0018	J	0.0040	0.0010	mg/L	1		6010C	Total/NA
Iron	0.081		0.050	0.019	mg/L	1		6010C	Total/NA
Magnesium	10.5		0.20	0.043	mg/L	1		6010C	Total/NA
Manganese	0.0048	B	0.0030	0.00040	mg/L	1		6010C	Total/NA
Nickel	0.0034	J	0.010	0.0013	mg/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP-080321 (Continued)
Lab Sample ID: 480-188016-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	0.88		0.50	0.10	mg/L	1		6010C	Total/NA
Sodium	18.4		1.0	0.32	mg/L	1		6010C	Total/NA
Zinc	0.0022	J	0.010	0.0015	mg/L	1		6010C	Total/NA
Barium	0.045		0.0020	0.00070	mg/L	1		6010C	Dissolved
Calcium	111		0.50	0.10	mg/L	1		6010C	Dissolved
Magnesium	10.2		0.20	0.043	mg/L	1		6010C	Dissolved
Manganese	0.0011	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Nickel	0.0033	J	0.010	0.0013	mg/L	1		6010C	Dissolved
Potassium	0.84		0.50	0.10	mg/L	1		6010C	Dissolved
Sodium	18.0		1.0	0.32	mg/L	1		6010C	Dissolved
Zinc	0.0019	J B	0.010	0.0015	mg/L	1		6010C	Dissolved

Client Sample ID: TB-080321
Lab Sample ID: 480-188016-12

No Detections.

Client Sample ID: FB-080321
Lab Sample ID: 480-188016-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.26	J B	1.8	0.22	ng/L	1		537 (modified)	Total/NA

Client Sample ID: EB-080321
Lab Sample ID: 480-188016-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.24	J B	1.8	0.22	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: New York State D.E.C.
Job ID: 480-188016-1
Project/Site: SMP C - Haviland Complex

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	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, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Client Sample ID: MW-99-03
Lab Sample ID: 480-188016-1

Date Collected: 08/02/21 11:51
Matrix: Water

Date Received: 08/05/21 10:00

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			08/09/21 15:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 15:56	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 15:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 15:56	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 15:56	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 15:56	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 15:56	1
1,2-Dibromo-3-Chloropropane	ND	*+ F1	1.0	0.39	ug/L			08/09/21 15:56	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 15:56	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 15:56	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 15:56	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 15:56	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 15:56	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 15:56	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 15:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 15:56	1
Acetone	ND		10	3.0	ug/L			08/09/21 15:56	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 15:56	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 15:56	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 15:56	1
Bromomethane	ND	F2	1.0	0.69	ug/L			08/09/21 15:56	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 15:56	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 15:56	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 15:56	1
Dibromochloromethane	ND	*+ F1	1.0	0.32	ug/L			08/09/21 15:56	1
Chloroethane	ND	F2	1.0	0.32	ug/L			08/09/21 15:56	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 15:56	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 15:56	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 15:56	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 15:56	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 15:56	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 15:56	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 15:56	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 15:56	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 15:56	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 15:56	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 15:56	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 15:56	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 15:56	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 15:56	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/09/21 15:56	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 15:56	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 15:56	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 15:56	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 15:56	1
Trichlorofluoromethane	ND	F2	1.0	0.88	ug/L			08/09/21 15:56	1
Vinyl chloride	ND	F2	1.0	0.90	ug/L			08/09/21 15:56	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 15:56	1

Client Sample ID: MW-99-03
Date Collected: 08/02/21 11:51
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/09/21 15:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*08/09/21 15:56*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/09/21 15:56*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/09/21 15:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.11**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 13:26	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 13:26	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 13:26	1
Barium	**0.094**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 13:26	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 13:26	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 13:26	1
Calcium	**40.1**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 13:26	1
Chromium	**0.016**		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 13:26	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 13:26	1
Copper	**0.0061**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 13:26	1
Iron	**0.062**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 13:26	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 13:26	1
Magnesium	**14.3**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 13:26	1
Manganese	**0.0051**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 13:26	1
Nickel	**0.017**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 13:26	1
Potassium	**1.8**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 13:26	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 13:26	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 13:26	1
Sodium	**22.8**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 13:26	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 13:26	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 13:26	1
Zinc	**0.0028**	**J**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 13:26	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 16:22	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 16:22	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 16:22	1
Barium	**0.096**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 16:22	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 16:22	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 16:22	1
Calcium	**39.4**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 16:22	1
Chromium	**0.015**		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 16:22	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 16:22	1
Copper	**0.0056**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 16:22	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 16:22	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 16:22	1
Magnesium	**14.0**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 16:22	1
Manganese	**0.00047**	**J B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 16:22	1
Nickel	**0.016**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 16:22	1
Potassium	**1.9**		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 15:00	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 16:22	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 16:22	1

Client Sample ID: MW-99-03
Lab Sample ID: 480-188016-1
Date Collected: 08/02/21 11:51
Matrix: Water
Date Received: 08/05/21 10:00

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**22.6**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 16:22	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 16:22	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 16:22	1
Zinc	**0.0046**	**J B**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 16:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:15	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:33	1

Client Sample ID: MW-86-24A
Lab Sample ID: 480-188016-2
Date Collected: 08/02/21 13:40
Matrix: Water
Date Received: 08/05/21 10:00

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			08/09/21 16:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 16:20	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 16:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 16:20	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 16:20	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 16:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 16:20	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 16:20	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 16:20	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 16:20	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 16:20	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 16:20	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 16:20	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 16:20	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 16:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 16:20	1
Acetone	ND		10	3.0	ug/L			08/09/21 16:20	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 16:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 16:20	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 16:20	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 16:20	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 16:20	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 16:20	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 16:20	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 16:20	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 16:20	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 16:20	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 16:20	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 16:20	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 16:20	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 16:20	1

Client Sample ID: MW-86-24A
Lab Sample ID: 480-188016-2

Date Collected: 08/02/21 13:40
Matrix: Water

Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 16:20	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 16:20	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 16:20	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 16:20	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 16:20	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 16:20	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 16:20	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 16:20	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 16:20	1
Tetrachloroethene	**4.0**		1.0	0.36	ug/L			08/09/21 16:20	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 16:20	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 16:20	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 16:20	1
Trichloroethene	**1.3**		1.0	0.46	ug/L			08/09/21 16:20	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 16:20	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 16:20	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 16:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/09/21 16:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*08/09/21 16:20*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/09/21 16:20*	*1*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*08/09/21 16:20*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.37**		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 13:45	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 13:45	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 13:45	1
Barium	**0.023**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 13:45	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 13:45	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 13:45	1
Calcium	**42.1**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 13:45	1
Chromium	**0.14**		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 13:45	1
Cobalt	**0.0014**	**J**	0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 13:45	1
Copper	**0.0018**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 13:45	1
Iron	**1.1**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 13:45	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 13:45	1
Magnesium	**5.1**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 13:45	1
Manganese	**0.035**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 13:45	1
Nickel	**0.11**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 13:45	1
Potassium	**1.1**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 13:45	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 13:45	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 13:45	1
Sodium	**122**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 13:45	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 13:45	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 13:45	1
Zinc	**0.0061**	**J**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 13:45	1

Client Sample ID: MW-86-24A
Lab Sample ID: 480-188016-2

Date Collected: 08/02/21 13:40
Matrix: Water
Date Received: 08/05/21 10:00

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.075**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 16:41	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 16:41	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 16:41	1
Barium	**0.021**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 16:41	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 16:41	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 16:41	1
Calcium	**40.0**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 16:41	1
Chromium	**0.063**		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 16:41	1
Cobalt	**0.0015**	**J**	0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 16:41	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 16:41	1
Iron	**0.38**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 16:41	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 16:41	1
Magnesium	**4.9**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 16:41	1
Manganese	**0.031**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 16:41	1
Nickel	**0.13**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 16:41	1
Potassium	**1.2**		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 15:19	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 16:41	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 16:41	1
Sodium	**121**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 16:41	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 16:41	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 16:41	1
Zinc	**0.0062**	**J**	0.010	0.0015	mg/L		08/16/21 09:18	08/16/21 20:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:20	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:38	1

Client Sample ID: MW-99-01
Lab Sample ID: 480-188016-3

Date Collected: 08/02/21 14:39
Matrix: Water
Date Received: 08/05/21 10:00

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			08/09/21 16:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 16:43	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 16:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 16:43	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 16:43	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 16:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 16:43	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 16:43	1
1,2-Dichlorobenzene	**1.8**		1.0	0.79	ug/L			08/09/21 16:43	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 16:43	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 16:43	1
1,3-Dichlorobenzene	**2.2**		1.0	0.78	ug/L			08/09/21 16:43	1
1,4-Dichlorobenzene	**2.1**		1.0	0.84	ug/L			08/09/21 16:43	1

Client Sample ID: MW-99-01
Lab Sample ID: 480-188016-3

Date Collected: 08/02/21 14:39
Matrix: Water

Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 16:43	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 16:43	1
Acetone	ND		10	3.0	ug/L			08/09/21 16:43	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 16:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 16:43	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 16:43	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 16:43	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 16:43	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 16:43	1
Chlorobenzene	**4.7**		1.0	0.75	ug/L			08/09/21 16:43	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 16:43	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 16:43	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 16:43	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 16:43	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 16:43	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 16:43	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 16:43	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 16:43	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 16:43	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 16:43	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 16:43	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 16:43	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 16:43	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 16:43	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 16:43	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 16:43	1
Tetrachloroethene	**0.76**	**J**	1.0	0.36	ug/L			08/09/21 16:43	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 16:43	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 16:43	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 16:43	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 16:43	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 16:43	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 16:43	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/09/21 16:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*08/09/21 16:43*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/09/21 16:43*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/09/21 16:43*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.18**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 13:49	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 13:49	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 13:49	1
Barium	**0.028**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 13:49	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 13:49	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 13:49	1

Client Sample ID: MW-99-01
Date Collected: 08/02/21 14:39
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-3
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**79.4**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 13:49	1
Chromium	**0.21**		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 13:49	1
Cobalt	**0.0031**	**J**	0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 13:49	1
Copper	**0.0023**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 13:49	1
Iron	**0.89**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 13:49	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 13:49	1
Magnesium	**8.1**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 13:49	1
Manganese	**4.2**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 13:49	1
Nickel	**0.038**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 13:49	1
Potassium	**2.3**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 13:49	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 13:49	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 13:49	1
Sodium	**77.7**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 13:49	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 13:49	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 13:49	1
Zinc	**0.0020**	**J**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 13:49	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.067**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 16:45	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 16:45	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 16:45	1
Barium	**0.020**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 16:45	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 16:45	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 16:45	1
Calcium	**77.2**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 16:45	1
Chromium	**0.028**		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 16:45	1
Cobalt	**0.0018**	**J**	0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 16:45	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 16:45	1
Iron	**0.21**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 16:45	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 16:45	1
Magnesium	**7.9**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 16:45	1
Manganese	**3.1**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 16:45	1
Nickel	**0.016**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 16:45	1
Potassium	**2.3**		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 15:23	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 16:45	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 16:45	1
Sodium	**75.6**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 16:45	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 16:45	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 16:45	1
Zinc	**0.0018**	**J**	0.010	0.0015	mg/L		08/16/21 09:18	08/16/21 20:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:24	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:40	1

Client Sample ID: MW-86-28
Date Collected: 08/02/21 15:46
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/09/21 17:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 17:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 17:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 17:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 17:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 17:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 17:06	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 17:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 17:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 17:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 17:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 17:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 17:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 17:06	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 17:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 17:06	1
Acetone	ND		10	3.0	ug/L			08/09/21 17:06	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 17:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 17:06	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 17:06	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 17:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 17:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 17:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 17:06	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 17:06	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 17:06	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 17:06	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 17:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 17:06	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 17:06	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 17:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 17:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 17:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 17:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 17:06	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 17:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 17:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 17:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 17:06	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 17:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/09/21 17:06	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 17:06	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 17:06	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 17:06	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 17:06	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 17:06	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 17:06	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 17:06	1

Client Sample ID: MW-86-28
Date Collected: 08/02/21 15:46
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-4
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/09/21 17:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*08/09/21 17:06*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*08/09/21 17:06*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/09/21 17:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.13**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 14:04	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 14:04	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 14:04	1
Barium	**0.049**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 14:04	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 14:04	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 14:04	1
Calcium	**52.3**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:04	1
Chromium	**0.0017**	**J**	0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 14:04	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 14:04	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 14:04	1
Iron	**2.3**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 14:04	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 14:04	1
Magnesium	**12.8**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 14:04	1
Manganese	**0.33**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 14:04	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 14:04	1
Potassium	**1.8**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:04	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 14:04	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 14:04	1
Sodium	**142**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 14:04	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 14:04	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 14:04	1
Zinc	ND		0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 14:04	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 16:48	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 16:48	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 16:48	1
Barium	**0.050**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 16:48	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 16:48	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 16:48	1
Calcium	**52.2**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 16:48	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 16:48	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 16:48	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 16:48	1
Iron	**2.5**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 16:48	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 16:48	1
Magnesium	**12.9**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 16:48	1
Manganese	**0.34**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 16:48	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 16:48	1
Potassium	**1.9**		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 15:27	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 16:48	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 16:48	1

Client Sample ID: MW-86-28
Lab Sample ID: 480-188016-4

Date Collected: 08/02/21 15:46
Matrix: Water
Date Received: 08/05/21 10:00

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**142**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 16:48	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 16:48	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 16:48	1
Zinc	**0.013**	**B**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 16:48	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:25	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:41	1

Client Sample ID: MW-12
Lab Sample ID: 480-188016-5

Date Collected: 08/03/21 15:56
Matrix: Water
Date Received: 08/05/21 10:00

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			08/09/21 17:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 17:30	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 17:30	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 17:30	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 17:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 17:30	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 17:30	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 17:30	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 17:30	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 17:30	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 17:30	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 17:30	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 17:30	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 17:30	1
Acetone	ND		10	3.0	ug/L			08/09/21 17:30	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 17:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 17:30	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 17:30	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 17:30	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 17:30	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 17:30	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 17:30	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 17:30	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 17:30	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 17:30	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 17:30	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 17:30	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 17:30	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 17:30	1

Client Sample ID: MW-12
Date Collected: 08/03/21 15:56
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 17:30	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 17:30	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 17:30	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 17:30	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 17:30	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 17:30	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 17:30	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 17:30	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 17:30	1
Tetrachloroethene	**0.45**	**J**	1.0	0.36	ug/L			08/09/21 17:30	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 17:30	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 17:30	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 17:30	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 17:30	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 17:30	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 17:30	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/09/21 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*08/09/21 17:30*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/09/21 17:30*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*08/09/21 17:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.070**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 14:08	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 14:08	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 14:08	1
Barium	**0.024**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 14:08	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 14:08	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 14:08	1
Calcium	**43.5**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:08	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 14:08	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 14:08	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 14:08	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 14:08	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 14:08	1
Magnesium	**5.4**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 14:08	1
Manganese	**0.00069**	**J B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 14:08	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 14:08	1
Potassium	**2.8**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:08	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 14:08	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 14:08	1
Sodium	**75.6**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 14:08	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 14:08	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 14:08	1
Zinc	ND		0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 14:08	1

Client Sample ID: MW-12
Lab Sample ID: 480-188016-5

Date Collected: 08/03/21 15:56
Matrix: Water
Date Received: 08/05/21 10:00

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 16:52	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 16:52	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 16:52	1
Barium	**0.023**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 16:52	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 16:52	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 16:52	1
Calcium	**41.3**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 16:52	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 16:52	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 16:52	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 16:52	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 16:52	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 16:52	1
Magnesium	**5.2**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 16:52	1
Manganese	ND		0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 16:52	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 16:52	1
Potassium	**2.9**		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 15:31	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 16:52	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 16:52	1
Sodium	**72.9**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 16:52	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 16:52	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 16:52	1
Zinc	**0.0024**	**J B**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 16:52	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:27	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:42	1

Client Sample ID: MW-86-1SH
Lab Sample ID: 480-188016-6

Date Collected: 08/03/21 09:13
Matrix: Water
Date Received: 08/05/21 10:00

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			08/09/21 17:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 17:53	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 17:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 17:53	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 17:53	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 17:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 17:53	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 17:53	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 17:53	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 17:53	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 17:53	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 17:53	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 17:53	1

Client Sample ID: MW-86-1SH
Date Collected: 08/03/21 09:13
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 17:53	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 17:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 17:53	1
Acetone	ND		10	3.0	ug/L			08/09/21 17:53	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 17:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 17:53	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 17:53	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 17:53	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 17:53	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 17:53	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 17:53	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 17:53	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 17:53	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 17:53	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 17:53	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 17:53	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 17:53	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 17:53	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 17:53	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 17:53	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 17:53	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 17:53	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 17:53	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 17:53	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 17:53	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 17:53	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 17:53	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/09/21 17:53	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 17:53	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 17:53	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 17:53	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 17:53	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 17:53	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 17:53	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/09/21 17:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*77 - 120*		*08/09/21 17:53*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*08/09/21 17:53*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/09/21 17:53*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.2**		4.7	0.85	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluoropentanoic acid (PFPeA)	**17**		1.9	0.45	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorohexanoic acid (PFHxA)	**17**		1.9	0.43	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluoroheptanoic acid (PFHpA)	**3.5**		1.9	0.23	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorooctanoic acid (PFOA)	**9.9**		1.9	0.40	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorononanoic acid (PFNA)	**1.9**		1.9	0.27	ng/L		08/10/21 14:14	08/11/21 14:00	1

Client Sample ID: MW-86-1SH
Date Collected: 08/03/21 09:13
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	**0.29**	**J**	1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.33	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.36	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.41	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.60	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorobutanesulfonic acid (PFBS)	**2.6**	**B**	1.9	0.24	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorohexanesulfonic acid (PFHxS)	**1.4**	**J**	1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.38**	**J**	1.9	0.22	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorooctanesulfonic acid (PFOS)	**17**		1.9	0.28	ng/L		08/10/21 14:14	08/11/21 14:00	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.55	ng/L		08/10/21 14:14	08/11/21 14:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	0.85	ng/L		08/10/21 14:14	08/11/21 14:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	0.70	ng/L		08/10/21 14:14	08/11/21 14:00	1
6:2 FTS	ND		4.7	1.0	ng/L		08/10/21 14:14	08/11/21 14:00	1
8:2 FTS	ND		1.9	0.37	ng/L		08/10/21 14:14	08/11/21 14:00	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*96*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C4 PFBA	*88*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C5 PFPeA	*99*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C2 PFHxA	*99*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C4 PFHpA	*102*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C4 PFOA	*103*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C5 PFNA	*98*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C2 PFDA	*101*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C2 PFUnA	*95*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C2 PFDoA	*93*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C2 PFTeDA	*90*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C3 PFBS	*104*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
18O2 PFHxS	*104*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
13C4 PFOS	*101*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
d3-NMeFOSAA	*92*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
d5-NEtFOSAA	*85*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
M2-6:2 FTS	*107*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*
M2-8:2 FTS	*107*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:00*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.069**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 14:12	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 14:12	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 14:12	1
Barium	**0.035**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 14:12	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 14:12	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 14:12	1
Calcium	**70.9**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:12	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 14:12	1

Client Sample ID: MW-86-1SH
Date Collected: 08/03/21 09:13
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-6
Matrix: Water

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 14:12	1
Copper	**0.0032**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 14:12	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 14:12	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 14:12	1
Magnesium	**7.7**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 14:12	1
Manganese	**0.00082**	**J B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 14:12	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 14:12	1
Potassium	**1.1**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:12	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 14:12	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 14:12	1
Sodium	**128**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 14:12	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 14:12	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 14:12	1
Zinc	**0.0015**	**J**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 14:12	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 17:07	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 17:07	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 17:07	1
Barium	**0.036**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 17:07	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 17:07	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 17:07	1
Calcium	**69.4**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 17:07	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 17:07	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 17:07	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 17:07	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 17:07	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 17:07	1
Magnesium	**7.5**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 17:07	1
Manganese	**0.0017**	**J B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 17:07	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 17:07	1
Potassium	**1.2**		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 15:46	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 17:07	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 17:07	1
Sodium	**125**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 17:07	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 17:07	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 17:07	1
Zinc	**0.0039**	**J B**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 17:07	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:28	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:43	1

Client Sample ID: MW-86-X3
Lab Sample ID: 480-188016-7

Date Collected: 08/03/21 10:41
Matrix: Water

Date Received: 08/05/21 10:00

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			08/09/21 18:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 18:16	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 18:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 18:16	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 18:16	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 18:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 18:16	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 18:16	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 18:16	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 18:16	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 18:16	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 18:16	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 18:16	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 18:16	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 18:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 18:16	1
Acetone	ND		10	3.0	ug/L			08/09/21 18:16	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 18:16	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 18:16	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 18:16	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 18:16	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 18:16	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 18:16	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 18:16	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 18:16	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 18:16	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 18:16	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 18:16	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 18:16	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 18:16	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 18:16	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 18:16	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 18:16	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 18:16	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 18:16	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 18:16	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 18:16	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 18:16	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 18:16	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 18:16	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/09/21 18:16	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 18:16	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 18:16	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 18:16	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 18:16	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 18:16	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 18:16	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 18:16	1

Client Sample ID: MW-86-X3
Date Collected: 08/03/21 10:41
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-7
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		08/09/21 18:16	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		08/09/21 18:16	1
4-Bromofluorobenzene (Surr)	92		73 - 120		08/09/21 18:16	1
Dibromofluoromethane (Surr)	101		75 - 123		08/09/21 18:16	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.2**		4.9	0.88	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluoropentanoic acid (PFPeA)	**18**		2.0	0.47	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorohexanoic acid (PFHxA)	**18**		2.0	0.44	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluoroheptanoic acid (PFHpA)	**2.6**		2.0	0.23	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorooctanoic acid (PFOA)	**9.0**		2.0	0.42	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorononanoic acid (PFNA)	**1.1**	**J**	2.0	0.28	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorodecanoic acid (PFDA)	**0.62**	**J**	2.0	0.30	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.38	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.62	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorobutanesulfonic acid (PFBS)	**1.9**	**J B**	2.0	0.25	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorohexanesulfonic acid (PFHxS)	**1.1**	**J**	2.0	0.30	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.33**	**J**	2.0	0.23	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.30	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorooctanesulfonic acid (PFOS)	**23**		2.0	0.29	ng/L		08/10/21 14:14	08/11/21 14:33	1
Perfluorooctanesulfonamide (FOSA)	**1.5**	**J**	2.0	0.57	ng/L		08/10/21 14:14	08/11/21 14:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.9	0.89	ng/L		08/10/21 14:14	08/11/21 14:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	**0.84**	**J**	4.9	0.73	ng/L		08/10/21 14:14	08/11/21 14:33	1
6:2 FTS	ND		4.9	1.1	ng/L		08/10/21 14:14	08/11/21 14:33	1
8:2 FTS	ND		2.0	0.38	ng/L		08/10/21 14:14	08/11/21 14:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	96		25 - 150	08/10/21 14:14	08/11/21 14:33	1
13C4 PFBA	86		25 - 150	08/10/21 14:14	08/11/21 14:33	1
13C5 PFPeA	98		25 - 150	08/10/21 14:14	08/11/21 14:33	1
13C2 PFHxA	100		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C4 PFHpA	103		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C4 PFOA	103		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C5 PFNA	99		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C2 PFDA	98		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C2 PFUnA	86		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C2 PFDoA	82		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C2 PFTeDA	82		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C3 PFBS	106		50 - 150	08/10/21 14:14	08/11/21 14:33	1
18O2 PFHxS	107		50 - 150	08/10/21 14:14	08/11/21 14:33	1
13C4 PFOS	91		50 - 150	08/10/21 14:14	08/11/21 14:33	1
d3-NMeFOSAA	86		50 - 150	08/10/21 14:14	08/11/21 14:33	1
d5-NEtFOSAA	77		50 - 150	08/10/21 14:14	08/11/21 14:33	1

Client Sample ID: MW-86-X3
Date Collected: 08/03/21 10:41
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-7
Matrix: Water

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
M2-6:2 FTS	*113*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:33*	*1*
M2-8:2 FTS	*87*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:33*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.061**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 14:15	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 14:15	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 14:15	1
Barium	**0.020**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 14:15	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 14:15	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 14:15	1
Calcium	**64.6**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:15	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 14:15	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 14:15	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 14:15	1
Iron	**0.035**	**J**	0.050	0.019	mg/L		08/09/21 13:12	08/10/21 14:15	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 14:15	1
Magnesium	**5.5**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 14:15	1
Manganese	**0.0031**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 14:15	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 14:15	1
Potassium	**2.2**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:15	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 14:15	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 14:15	1
Sodium	**41.7**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 14:15	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 14:15	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 14:15	1
Zinc	ND		0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 14:15	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 17:11	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 17:11	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 17:11	1
Barium	**0.020**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 17:11	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 17:11	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 17:11	1
Calcium	**63.6**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 17:11	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 17:11	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 17:11	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 17:11	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 17:11	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 17:11	1
Magnesium	**5.3**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 17:11	1
Manganese	**0.00044**	**J B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 17:11	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 17:11	1
Potassium	**2.3**		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 15:50	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 17:11	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 17:11	1
Sodium	**41.3**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 17:11	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 17:11	1

Client Sample ID: MW-86-X3
Lab Sample ID: 480-188016-7
Date Collected: 08/03/21 10:41
Matrix: Water
Date Received: 08/05/21 10:00

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 17:11	1
Zinc	**0.0025**	**J B**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 17:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:29	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:47	1

Client Sample ID: MW-99-02
Lab Sample ID: 480-188016-8
Date Collected: 08/03/21 12:00
Matrix: Water
Date Received: 08/05/21 10:00

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			08/09/21 18:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 18:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 18:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 18:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 18:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 18:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 18:39	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 18:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 18:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 18:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 18:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 18:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 18:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 18:39	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 18:39	1
Acetone	ND		10	3.0	ug/L			08/09/21 18:39	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 18:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 18:39	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 18:39	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 18:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 18:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 18:39	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 18:39	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 18:39	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 18:39	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 18:39	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 18:39	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.81	ug/L			08/09/21 18:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 18:39	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 18:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 18:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 18:39	1

Client Sample ID: MW-99-02
Lab Sample ID: 480-188016-8

Date Collected: 08/03/21 12:00
Matrix: Water

Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 18:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 18:39	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 18:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 18:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 18:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 18:39	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 18:39	1
Tetrachloroethene	**3.9**		1.0	0.36	ug/L			08/09/21 18:39	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 18:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 18:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 18:39	1
Trichloroethene	**0.53**	**J**	1.0	0.46	ug/L			08/09/21 18:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 18:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 18:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/09/21 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*77 - 120*		*08/09/21 18:39*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*08/09/21 18:39*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*08/09/21 18:39*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**8.9**		4.9	0.87	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluoropentanoic acid (PFPeA)	**8.8**		2.0	0.46	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorohexanoic acid (PFHxA)	**7.7**		2.0	0.44	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluoroheptanoic acid (PFHpA)	**4.9**		2.0	0.23	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorooctanoic acid (PFOA)	**16**		2.0	0.41	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorononanoic acid (PFNA)	**2.1**		2.0	0.27	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorodecanoic acid (PFDA)	**0.55**	**J**	2.0	0.30	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.38	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.42	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.62	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorobutanesulfonic acid (PFBS)	**3.5**	**B**	2.0	0.24	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorohexanesulfonic acid (PFHxS)	**3.9**		2.0	0.30	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.53**	**J**	2.0	0.23	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.30	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorooctanesulfonic acid (PFOS)	**25**		2.0	0.28	ng/L		08/10/21 14:14	08/11/21 14:41	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.56	ng/L		08/10/21 14:14	08/11/21 14:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.9	0.88	ng/L		08/10/21 14:14	08/11/21 14:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.9	0.73	ng/L		08/10/21 14:14	08/11/21 14:41	1
6:2 FTS	ND		4.9	1.1	ng/L		08/10/21 14:14	08/11/21 14:41	1
8:2 FTS	ND		2.0	0.38	ng/L		08/10/21 14:14	08/11/21 14:41	1

Client Sample ID: MW-99-02
Date Collected: 08/03/21 12:00
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-8
Matrix: Water

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*90*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C4 PFBA	*82*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C5 PFPeA	*98*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C2 PFHxA	*97*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C4 PFHpA	*98*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C4 PFOA	*102*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C5 PFNA	*98*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C2 PFDA	*98*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C2 PFUnA	*92*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C2 PFDoA	*85*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C2 PFTeDA	*84*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C3 PFBS	*102*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
18O2 PFHxS	*103*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
13C4 PFOS	*98*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
d3-NMeFOSAA	*88*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
d5-NEtFOSAA	*86*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
M2-6:2 FTS	*104*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*
M2-8:2 FTS	*96*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:41*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.067**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 14:19	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 14:19	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 14:19	1
Barium	**0.035**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 14:19	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 14:19	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 14:19	1
Calcium	**98.8**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:19	1
Chromium	**0.51**		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 14:19	1
Cobalt	**0.0059**		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 14:19	1
Copper	**0.0023**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 14:19	1
Iron	**1.2**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 14:19	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 14:19	1
Magnesium	**9.8**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 14:19	1
Manganese	**0.87**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 14:19	1
Nickel	**0.083**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 14:19	1
Potassium	**2.1**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:19	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 14:19	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 14:19	1
Sodium	**124**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 14:19	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 14:19	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 14:19	1
Zinc	ND		0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 14:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 17:15	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 17:15	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 17:15	1
Barium	**0.029**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 17:15	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 17:15	1

Client Sample ID: MW-99-02
Lab Sample ID: 480-188016-8

Date Collected: 08/03/21 12:00
Matrix: Water
Date Received: 08/05/21 10:00

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 17:15	1
Calcium	**95.8**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 17:15	1
Chromium	**0.0014**	**J**	0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 17:15	1
Cobalt	**0.0024**	**J**	0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 17:15	1
Copper	**0.0016**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 17:15	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 17:15	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 17:15	1
Magnesium	**9.5**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 17:15	1
Manganese	**0.33**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 17:15	1
Nickel	**0.019**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 17:15	1
Potassium	**2.3**		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 15:53	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 17:15	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 17:15	1
Sodium	**121**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 17:15	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 17:15	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 17:15	1
Zinc	ND		0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 17:15	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:31	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:49	1

Client Sample ID: MW-99-04
Lab Sample ID: 480-188016-9

Date Collected: 08/03/21 13:27
Matrix: Water
Date Received: 08/05/21 10:00

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			08/09/21 19:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 19:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 19:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 19:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 19:03	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 19:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 19:03	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 19:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 19:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 19:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 19:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 19:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 19:03	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 19:03	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 19:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 19:03	1
Acetone	ND		10	3.0	ug/L			08/09/21 19:03	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 19:03	1

Client Sample ID: MW-99-04
Lab Sample ID: 480-188016-9

Date Collected: 08/03/21 13:27
Matrix: Water

Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 19:03	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 19:03	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 19:03	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 19:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 19:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 19:03	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 19:03	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 19:03	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 19:03	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 19:03	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 19:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 19:03	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 19:03	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 19:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 19:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 19:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 19:03	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 19:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 19:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 19:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 19:03	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 19:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/09/21 19:03	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 19:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 19:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 19:03	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 19:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 19:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 19:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/09/21 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*08/09/21 19:03*	*1*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*		*08/09/21 19:03*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/09/21 19:03*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.6**	**J**	4.8	0.86	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluoropentanoic acid (PFPeA)	**0.57**	**J**	1.9	0.46	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.43	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.23	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorooctanoic acid (PFOA)	**0.51**	**J**	1.9	0.41	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.27	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.33	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.37	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.42	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.61	ng/L		08/10/21 14:14	08/11/21 14:49	1

Client Sample ID: MW-99-04
Date Collected: 08/03/21 13:27
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.72**	**J B**	1.9	0.24	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.22	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.28	ng/L		08/10/21 14:14	08/11/21 14:49	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.55	ng/L		08/10/21 14:14	08/11/21 14:49	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	0.87	ng/L		08/10/21 14:14	08/11/21 14:49	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	0.71	ng/L		08/10/21 14:14	08/11/21 14:49	1
6:2 FTS	ND		4.8	1.1	ng/L		08/10/21 14:14	08/11/21 14:49	1
8:2 FTS	ND		1.9	0.37	ng/L		08/10/21 14:14	08/11/21 14:49	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*97*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C4 PFBA	*80*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C5 PFPeA	*96*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C2 PFHxA	*99*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C4 PFHpA	*100*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C4 PFOA	*101*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C5 PFNA	*96*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C2 PFDA	*95*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C2 PFUnA	*87*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C2 PFDoA	*87*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C2 PFTeDA	*87*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C3 PFBS	*103*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
18O2 PFHxS	*101*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
13C4 PFOS	*92*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
d3-NMeFOSAA	*89*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
d5-NEtFOSAA	*82*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
M2-6:2 FTS	*106*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:49*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 14:23	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 14:23	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 14:23	1
Barium	**0.045**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 14:23	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 14:23	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 14:23	1
Calcium	**115**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:23	1
Chromium	**0.0013**	**J**	0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 14:23	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 14:23	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 14:23	1
Iron	**0.062**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 14:23	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 14:23	1
Magnesium	**10.5**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 14:23	1
Manganese	**0.0047**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 14:23	1

Client Sample ID: MW-99-04
Lab Sample ID: 480-188016-9

Date Collected: 08/03/21 13:27
Matrix: Water
Date Received: 08/05/21 10:00

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	**0.0034**	**J**	0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 14:23	1
Potassium	**0.84**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:23	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 14:23	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 14:23	1
Sodium	**18.2**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 14:23	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 14:23	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 14:23	1
Zinc	**0.0019**	**J**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 14:23	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 17:19	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 17:19	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 17:19	1
Barium	**0.046**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 17:19	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 17:19	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 17:19	1
Calcium	**113**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 17:19	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 17:19	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 17:19	1
Copper	**0.0076**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 17:19	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 17:19	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 17:19	1
Magnesium	**10.4**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 17:19	1
Manganese	**0.00060**	**J B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 17:19	1
Nickel	**0.0029**	**J**	0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 17:19	1
Potassium	**0.85**		0.50	0.10	mg/L		08/16/21 09:18	08/16/21 20:52	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 17:19	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 17:19	1
Sodium	**18.2**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 17:19	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 17:19	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 17:19	1
Zinc	**0.0061**	**J B**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 17:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:32	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:50	1

Client Sample ID: MW-86-27
Lab Sample ID: 480-188016-10

Date Collected: 08/03/21 14:56
Matrix: Water
Date Received: 08/05/21 10:00

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			08/09/21 19:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 19:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 19:26	1

Client Sample ID: MW-86-27
Lab Sample ID: 480-188016-10

Date Collected: 08/03/21 14:56
Matrix: Water

Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 19:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 19:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 19:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 19:26	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 19:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 19:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 19:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 19:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 19:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 19:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 19:26	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 19:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 19:26	1
Acetone	ND		10	3.0	ug/L			08/09/21 19:26	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 19:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 19:26	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 19:26	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 19:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 19:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 19:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 19:26	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 19:26	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 19:26	1
Chloroform	**0.50**	**J**	1.0	0.34	ug/L			08/09/21 19:26	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 19:26	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 19:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 19:26	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 19:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 19:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 19:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 19:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 19:26	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 19:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 19:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 19:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 19:26	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 19:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/09/21 19:26	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 19:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 19:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 19:26	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 19:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 19:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 19:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/09/21 19:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*08/09/21 19:26*	*1*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*		*08/09/21 19:26*	*1*

Client Sample ID: MW-86-27
Lab Sample ID: 480-188016-10

Date Collected: 08/03/21 14:56
Matrix: Water

Date Received: 08/05/21 10:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*08/09/21 19:26*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**11**		4.8	0.86	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluoropentanoic acid (PFPeA)	**32**		1.9	0.45	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorohexanoic acid (PFHxA)	**27**		1.9	0.43	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluoroheptanoic acid (PFHpA)	**4.5**		1.9	0.23	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorooctanoic acid (PFOA)	**15**		1.9	0.41	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorononanoic acid (PFNA)	**1.7**	**J**	1.9	0.27	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.33	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.37	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.42	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.61	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorobutanesulfonic acid (PFBS)	**2.4**	**B**	1.9	0.24	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorohexanesulfonic acid (PFHxS)	**1.8**	**J**	1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluoroheptanesulfonic Acid (PFHpS)	**0.46**	**J**	1.9	0.22	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorooctanesulfonic acid (PFOS)	**21**		1.9	0.28	ng/L		08/10/21 14:14	08/11/21 14:58	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.55	ng/L		08/10/21 14:14	08/11/21 14:58	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	0.87	ng/L		08/10/21 14:14	08/11/21 14:58	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	0.71	ng/L		08/10/21 14:14	08/11/21 14:58	1
6:2 FTS	ND		4.8	1.1	ng/L		08/10/21 14:14	08/11/21 14:58	1
8:2 FTS	ND		1.9	0.37	ng/L		08/10/21 14:14	08/11/21 14:58	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	*95*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C4 PFBA	*88*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C5 PFPeA	*97*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C2 PFHxA	*103*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C4 PFHpA	*101*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C4 PFOA	*103*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C5 PFNA	*96*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C2 PFDA	*97*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C2 PFUnA	*80*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C2 PFDoA	*79*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C2 PFTeDA	*79*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C3 PFBS	*102*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
18O2 PFHxS	*104*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
13C4 PFOS	*99*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
d3-NMeFOSAA	*89*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
d5-NEtFOSAA	*78*		*50 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
M2-6:2 FTS	*107*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*
M2-8:2 FTS	*90*		*25 - 150*	*08/10/21 14:14*	*08/11/21 14:58*	*1*

Client Sample ID: MW-86-27
Date Collected: 08/03/21 14:56
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-10
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**0.071**	**J**	0.20	0.060	mg/L		08/09/21 13:12	08/10/21 14:27	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 14:27	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 14:27	1
Barium	**0.028**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 14:27	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 14:27	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 14:27	1
Calcium	**76.3**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:27	1
Chromium	**0.19**		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 14:27	1
Cobalt	**0.0010**	**J**	0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 14:27	1
Copper	**0.0045**	**J**	0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 14:27	1
Iron	**0.91**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 14:27	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 14:27	1
Magnesium	**6.2**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 14:27	1
Manganese	**0.014**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 14:27	1
Nickel	**0.019**		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 14:27	1
Potassium	**0.75**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:27	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 14:27	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 14:27	1
Sodium	**89.7**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 14:27	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 14:27	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 14:27	1
Zinc	**0.0016**	**J**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 14:27	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 17:22	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 17:22	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 17:22	1
Barium	**0.027**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 17:22	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 17:22	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 17:22	1
Calcium	**74.6**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 17:22	1
Chromium	**0.0028**	**J**	0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 17:22	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 17:22	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 17:22	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 17:22	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 17:22	1
Magnesium	**6.0**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 17:22	1
Manganese	**0.0012**	**J B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 17:22	1
Nickel	**0.0025**	**J**	0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 17:22	1
Potassium	**0.76**		0.50	0.10	mg/L		08/16/21 09:18	08/16/21 20:56	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 17:22	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 17:22	1
Sodium	**88.6**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 17:22	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 17:22	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 17:22	1
Zinc	ND		0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 17:22	1

Client Sample ID: MW-86-27
Lab Sample ID: 480-188016-10
Date Collected: 08/03/21 14:56
Matrix: Water
Date Received: 08/05/21 10:00

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:33	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:51	1

Client Sample ID: DUP-080321
Lab Sample ID: 480-188016-11
Date Collected: 08/03/21 00:00
Matrix: Water
Date Received: 08/05/21 10:00

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			08/09/21 19:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 19:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 19:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 19:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 19:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 19:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 19:49	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/09/21 19:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 19:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 19:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 19:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 19:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 19:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 19:49	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 19:49	1
Acetone	ND		10	3.0	ug/L			08/09/21 19:49	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 19:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 19:49	1
Bromoform	ND	*+	1.0	0.26	ug/L			08/09/21 19:49	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 19:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 19:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 19:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 19:49	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/09/21 19:49	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 19:49	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 19:49	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 19:49	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 19:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 19:49	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 19:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 19:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 19:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 19:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 19:49	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 19:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 19:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 19:49	1

Client Sample ID: DUP-080321
Lab Sample ID: 480-188016-11

Date Collected: 08/03/21 00:00
Matrix: Water
Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 19:49	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 19:49	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/09/21 19:49	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 19:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 19:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 19:49	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 19:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 19:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 19:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/09/21 19:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*08/09/21 19:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*08/09/21 19:49*	*1*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*08/09/21 19:49*	*1*

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**1.7**	**J**	4.7	0.85	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.45	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.43	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.23	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorooctanoic acid (PFOA)	**0.45**	**J**	1.9	0.40	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.27	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.33	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.37	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.41	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.60	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorobutanesulfonic acid (PFBS)	**0.72**	**J B**	1.9	0.24	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.22	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.29	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.28	ng/L		08/10/21 14:14	08/11/21 15:06	1
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.55	ng/L		08/10/21 14:14	08/11/21 15:06	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	0.86	ng/L		08/10/21 14:14	08/11/21 15:06	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	0.70	ng/L		08/10/21 14:14	08/11/21 15:06	1
6:2 FTS	ND		4.7	1.0	ng/L		08/10/21 14:14	08/11/21 15:06	1
8:2 FTS	ND		1.9	0.37	ng/L		08/10/21 14:14	08/11/21 15:06	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*94*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C4 PFBA	*83*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C5 PFPeA	*98*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C2 PFHxA	*103*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C4 PFHpA	*105*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C4 PFOA	*105*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*

Client Sample ID: DUP-080321
Date Collected: 08/03/21 00:00
Date Received: 08/05/21 10:00

Lab Sample ID: 480-188016-11
Matrix: Water

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

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C5 PFNA	*97*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C2 PFDA	*99*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C2 PFUnA	*86*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C2 PFDoA	*85*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C2 PFTeDA	*89*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C3 PFBS	*105*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
18O2 PFHxS	*108*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
13C4 PFOS	*99*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
d3-NMeFOSAA	*92*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
d5-NEtFOSAA	*91*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
M2-6:2 FTS	*110*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*
M2-8:2 FTS	*92*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 14:31	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 14:31	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 14:31	1
Barium	**0.045**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 14:31	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 14:31	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 14:31	1
Calcium	**116**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:31	1
Chromium	**0.0018**	**J**	0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 14:31	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 14:31	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 14:31	1
Iron	**0.081**		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 14:31	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 14:31	1
Magnesium	**10.5**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 14:31	1
Manganese	**0.0048**	**B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 14:31	1
Nickel	**0.0034**	**J**	0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 14:31	1
Potassium	**0.88**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 14:31	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 14:31	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 14:31	1
Sodium	**18.4**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 14:31	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 14:31	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 14:31	1
Zinc	**0.0022**	**J**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 14:31	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 17:26	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 17:26	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 17:26	1
Barium	**0.045**		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 17:26	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 17:26	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 17:26	1
Calcium	**111**		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 17:26	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 17:26	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 17:26	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 17:26	1

Client Sample ID: DUP-080321
Lab Sample ID: 480-188016-11
Date Collected: 08/03/21 00:00
Matrix: Water
Date Received: 08/05/21 10:00

Method: 6010C - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 17:26	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 17:26	1
Magnesium	**10.2**		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 17:26	1
Manganese	**0.0011**	**J B**	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 17:26	1
Nickel	**0.0033**	**J**	0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 17:26	1
Potassium	**0.84**		0.50	0.10	mg/L		08/16/21 09:18	08/16/21 21:00	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 17:26	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 17:26	1
Sodium	**18.0**		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 17:26	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 17:26	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 17:26	1
Zinc	**0.0019**	**J B**	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 17:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:35	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:53	1

Client Sample ID: TB-080321
Lab Sample ID: 480-188016-12
Date Collected: 08/03/21 00:00
Matrix: Water
Date Received: 08/05/21 10:00

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			08/11/21 03:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/11/21 03:39	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/11/21 03:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/11/21 03:39	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/11/21 03:39	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/11/21 03:39	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/11/21 03:39	1
1,2-Dibromo-3-Chloropropane	ND	*+	1.0	0.39	ug/L			08/11/21 03:39	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/11/21 03:39	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/11/21 03:39	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/11/21 03:39	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/11/21 03:39	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/11/21 03:39	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/11/21 03:39	1
2-Hexanone	ND	*+	5.0	1.2	ug/L			08/11/21 03:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/11/21 03:39	1
Acetone	ND		10	3.0	ug/L			08/11/21 03:39	1
Benzene	ND		1.0	0.41	ug/L			08/11/21 03:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/11/21 03:39	1
Bromoform	ND		1.0	0.26	ug/L			08/11/21 03:39	1
Bromomethane	ND		1.0	0.69	ug/L			08/11/21 03:39	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/11/21 03:39	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/11/21 03:39	1

Client Sample ID: TB-080321
Lab Sample ID: 480-188016-12
Date Collected: 08/03/21 00:00
Matrix: Water
Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			08/11/21 03:39	1
Dibromochloromethane	ND	*+	1.0	0.32	ug/L			08/11/21 03:39	1
Chloroethane	ND		1.0	0.32	ug/L			08/11/21 03:39	1
Chloroform	ND		1.0	0.34	ug/L			08/11/21 03:39	1
Chloromethane	ND		1.0	0.35	ug/L			08/11/21 03:39	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/11/21 03:39	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/11/21 03:39	1
Cyclohexane	ND		1.0	0.18	ug/L			08/11/21 03:39	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/11/21 03:39	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/11/21 03:39	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/11/21 03:39	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/11/21 03:39	1
Methyl acetate	ND		2.5	1.3	ug/L			08/11/21 03:39	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/11/21 03:39	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/11/21 03:39	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/11/21 03:39	1
Styrene	ND		1.0	0.73	ug/L			08/11/21 03:39	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/11/21 03:39	1
Toluene	ND		1.0	0.51	ug/L			08/11/21 03:39	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/11/21 03:39	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/11/21 03:39	1
Trichloroethene	ND		1.0	0.46	ug/L			08/11/21 03:39	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/11/21 03:39	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/11/21 03:39	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/11/21 03:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/11/21 03:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*		*08/11/21 03:39*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*08/11/21 03:39*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 123*		*08/11/21 03:39*	*1*

Client Sample ID: FB-080321
Lab Sample ID: 480-188016-13
Date Collected: 08/03/21 16:40
Matrix: Water
Date Received: 08/05/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5	0.80	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.42	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.40	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.21	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.38	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.27	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.31	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.34	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.56	ng/L		08/10/21 14:14	08/11/21 15:14	1

Client Sample ID: FB-080321
Lab Sample ID: 480-188016-13

Date Collected: 08/03/21 16:40
Matrix: Water
Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.26**	**J B**	1.8	0.22	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.27	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.21	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.27	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.26	ng/L		08/10/21 14:14	08/11/21 15:14	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.52	ng/L		08/10/21 14:14	08/11/21 15:14	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.81	ng/L		08/10/21 14:14	08/11/21 15:14	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.66	ng/L		08/10/21 14:14	08/11/21 15:14	1
6:2 FTS	ND		4.5	0.98	ng/L		08/10/21 14:14	08/11/21 15:14	1
8:2 FTS	ND		1.8	0.35	ng/L		08/10/21 14:14	08/11/21 15:14	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*80*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C4 PFBA	*94*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C5 PFPeA	*101*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C2 PFHxA	*102*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C4 PFHpA	*98*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C4 PFOA	*106*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C5 PFNA	*97*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C2 PFDA	*101*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C2 PFUnA	*95*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C2 PFDoA	*88*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C2 PFTeDA	*80*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C3 PFBS	*108*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
18O2 PFHxS	*104*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
13C4 PFOS	*100*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
d3-NMeFOSAA	*93*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
d5-NEtFOSAA	*93*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
M2-6:2 FTS	*108*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*
M2-8:2 FTS	*102*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:14*	*1*

Client Sample ID: EB-080321
Lab Sample ID: 480-188016-14

Date Collected: 08/03/21 16:45
Matrix: Water
Date Received: 08/05/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5	0.80	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.42	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.40	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.21	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.38	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.25	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.27	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.31	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.34	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.57	ng/L		08/10/21 14:14	08/11/21 15:22	1

Client Sample ID: EB-080321
Lab Sample ID: 480-188016-14

Date Collected: 08/03/21 16:45
Matrix: Water

Date Received: 08/05/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	**0.24**	**J B**	1.8	0.22	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.27	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.21	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.27	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.26	ng/L		08/10/21 14:14	08/11/21 15:22	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.52	ng/L		08/10/21 14:14	08/11/21 15:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.81	ng/L		08/10/21 14:14	08/11/21 15:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.66	ng/L		08/10/21 14:14	08/11/21 15:22	1
6:2 FTS	ND		4.5	0.98	ng/L		08/10/21 14:14	08/11/21 15:22	1
8:2 FTS	ND		1.8	0.35	ng/L		08/10/21 14:14	08/11/21 15:22	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*83*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C4 PFBA	*74*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C5 PFPeA	*100*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C2 PFHxA	*102*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C4 PFHpA	*99*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C4 PFOA	*100*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C5 PFNA	*101*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C2 PFDA	*100*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C2 PFUnA	*94*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C2 PFDoA	*89*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C2 PFTeDA	*83*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C3 PFBS	*107*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
18O2 PFHxS	*104*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
13C4 PFOS	*100*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
d3-NMeFOSAA	*96*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
d5-NEtFOSAA	*90*		*50 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
M2-6:2 FTS	*107*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*
M2-8:2 FTS	*95*		*25 - 150*	*08/10/21 14:14*	*08/11/21 15:22*	*1*

Surrogate Summary

Client: New York State D.E.C.
Project/Site: SMP C - Haviland Complex

Job ID: 480-188016-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-188016-1	MW-99-03	99	103	94	103
480-188016-1 MS	MW-99-03	103	105	95	105
480-188016-1 MSD	MW-99-03	99	98	94	97
480-188016-2	MW-86-24A	98	102	94	100
480-188016-3	MW-99-01	100	106	94	103
480-188016-4	MW-86-28	97	105	95	103
480-188016-5	MW-12	97	103	94	101
480-188016-6	MW-86-1SH	97	109	92	102
480-188016-7	MW-86-X3	99	101	92	101
480-188016-8	MW-99-02	100	108	92	104
480-188016-9	MW-99-04	99	106	94	102
480-188016-10	MW-86-27	98	106	93	100
480-188016-11	DUP-080321	101	106	95	108
480-188016-12	TB-080321	99	101	98	98
LCS 480-592153/5	Lab Control Sample	99	105	96	102
LCS 480-592370/6	Lab Control Sample	99	102	96	100
MB 480-592153/7	Method Blank	98	102	92	103
MB 480-592370/8	Method Blank	98	102	100	102

Surrogate Legend

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

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 480-188016-1
Project/Site: SMP C - Haviland Complex

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFOSA	PFBA	PFPeA	PFHxA	C4PFHA	PFOA	PFNA	PFDA
Lab Sample ID	Client Sample ID	(25-150)	(25-150)	(25-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
480-188016-6	MW-86-1SH	96	88	99	99	102	103	98	101
480-188016-6 MS	MW-86-1SH	92	83	97	97	98	100	97	98
480-188016-6 MSD	MW-86-1SH	94	87	98	97	98	107	99	99
480-188016-7	MW-86-X3	96	86	98	100	103	103	99	98
480-188016-8	MW-99-02	90	82	98	97	98	102	98	98
480-188016-9	MW-99-04	97	80	96	99	100	101	96	95
480-188016-10	MW-86-27	95	88	97	103	101	103	96	97
480-188016-11	DUP-080321	94	83	98	103	105	105	97	99
480-188016-13	FB-080321	80	94	101	102	98	106	97	101
480-188016-14	EB-080321	83	74	100	102	99	100	101	100
LCS 200-170043/2-A	Lab Control Sample	88	96	103	101	94	99	98	99
MB 200-170043/1-A	Method Blank	89	95	102	107	105	105	104	103

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA	PFDoA	PFTDA	C3PFBS	PFHxS	PFOS	d3NMFOS	d5NEFOS
Lab Sample ID	Client Sample ID	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)	(50-150)
480-188016-6	MW-86-1SH	95	93	90	104	104	101	92	85
480-188016-6 MS	MW-86-1SH	90	83	83	98	96	99	84	85
480-188016-6 MSD	MW-86-1SH	92	85	88	105	103	103	93	89
480-188016-7	MW-86-X3	86	82	82	106	107	91	86	77
480-188016-8	MW-99-02	92	85	84	102	103	98	88	86
480-188016-9	MW-99-04	87	87	87	103	101	92	89	82
480-188016-10	MW-86-27	80	79	79	102	104	99	89	78
480-188016-11	DUP-080321	86	85	89	105	108	99	92	91
480-188016-13	FB-080321	95	88	80	108	104	100	93	93
480-188016-14	EB-080321	94	89	83	107	104	100	96	90
LCS 200-170043/2-A	Lab Control Sample	103	95	88	107	105	100	93	98
MB 200-170043/1-A	Method Blank	97	95	92	110	104	102	102	97

		Percent Isotope Dilution Recovery (Acceptance Limits)							
		M262FTS	M282FTS						
Lab Sample ID	Client Sample ID	(25-150)	(25-150)						
480-188016-6	MW-86-1SH	107	107						
480-188016-6 MS	MW-86-1SH	100	93						
480-188016-6 MSD	MW-86-1SH	105	94						
480-188016-7	MW-86-X3	113	87						
480-188016-8	MW-99-02	104	96						
480-188016-9	MW-99-04	106	95						
480-188016-10	MW-86-27	107	90						
480-188016-11	DUP-080321	110	92						
480-188016-13	FB-080321	108	102						
480-188016-14	EB-080321	107	95						
LCS 200-170043/2-A	Lab Control Sample	116	100						
MB 200-170043/1-A	Method Blank	105	107						

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFPeA = 13C5 PFPeA
PFHxA = 13C2 PFHxA
C4PFHA = 13C4 PFHpA

Isotope Dilution Summary

Client: New York State D.E.C.
Job ID: 480-188016-1
Project/Site: SMP C - Haviland Complex

PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
d3NMFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS

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

Lab Sample ID: MB 480-592153/7
Matrix: Water
Analysis Batch: 592153

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/09/21 12:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/09/21 12:03	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/09/21 12:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/09/21 12:03	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/09/21 12:03	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/09/21 12:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/09/21 12:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/09/21 12:03	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/09/21 12:03	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/09/21 12:03	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/09/21 12:03	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/09/21 12:03	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/09/21 12:03	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/09/21 12:03	1
2-Hexanone	ND		5.0	1.2	ug/L			08/09/21 12:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/09/21 12:03	1
Acetone	ND		10	3.0	ug/L			08/09/21 12:03	1
Benzene	ND		1.0	0.41	ug/L			08/09/21 12:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/09/21 12:03	1
Bromoform	ND		1.0	0.26	ug/L			08/09/21 12:03	1
Bromomethane	ND		1.0	0.69	ug/L			08/09/21 12:03	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/09/21 12:03	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/09/21 12:03	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/09/21 12:03	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/09/21 12:03	1
Chloroethane	ND		1.0	0.32	ug/L			08/09/21 12:03	1
Chloroform	ND		1.0	0.34	ug/L			08/09/21 12:03	1
Chloromethane	ND		1.0	0.35	ug/L			08/09/21 12:03	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/09/21 12:03	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/09/21 12:03	1
Cyclohexane	ND		1.0	0.18	ug/L			08/09/21 12:03	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/09/21 12:03	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/09/21 12:03	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/09/21 12:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/09/21 12:03	1
Methyl acetate	ND		2.5	1.3	ug/L			08/09/21 12:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/09/21 12:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/09/21 12:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/09/21 12:03	1
Styrene	ND		1.0	0.73	ug/L			08/09/21 12:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/09/21 12:03	1
Toluene	ND		1.0	0.51	ug/L			08/09/21 12:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/09/21 12:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/09/21 12:03	1
Trichloroethene	ND		1.0	0.46	ug/L			08/09/21 12:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/09/21 12:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/09/21 12:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/09/21 12:03	1

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

Lab Sample ID: MB 480-592153/7
Matrix: Water
Analysis Batch: 592153

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/09/21 12:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*08/09/21 12:03*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*08/09/21 12:03*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*08/09/21 12:03*	*1*

Lab Sample ID: LCS 480-592153/5
Matrix: Water
Analysis Batch: 592153

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	25.6		ug/L		102	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.3		ug/L		105	76 - 120
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.2		ug/L		97	61 - 148
1,1-Dichloroethane	25.0	24.4		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	22.5		ug/L		90	66 - 127
1,2,4-Trichlorobenzene	25.0	22.5		ug/L		90	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	39.3	*+	ug/L		157	56 - 134
1,2-Dichlorobenzene	25.0	22.6		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	23.5		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	24.2		ug/L		97	76 - 120
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 120
2-Butanone (MEK)	125	146		ug/L		117	57 - 140
2-Hexanone	125	151		ug/L		121	65 - 127
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	71 - 125
Acetone	125	137		ug/L		109	56 - 142
Benzene	25.0	24.2		ug/L		97	71 - 124
Bromodichloromethane	25.0	28.4		ug/L		114	80 - 122
Bromoform	25.0	33.9	*+	ug/L		136	61 - 132
Bromomethane	25.0	22.1		ug/L		88	55 - 144
Carbon disulfide	25.0	21.7		ug/L		87	59 - 134
Carbon tetrachloride	25.0	30.9		ug/L		124	72 - 134
Chlorobenzene	25.0	23.2		ug/L		93	80 - 120
Dibromochloromethane	25.0	34.3	*+	ug/L		137	75 - 125
Chloroethane	25.0	23.5		ug/L		94	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
Chloromethane	25.0	21.5		ug/L		86	68 - 124
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	74 - 124
cis-1,3-Dichloropropene	25.0	26.0		ug/L		104	74 - 124
Cyclohexane	25.0	24.7		ug/L		99	59 - 135
Dichlorodifluoromethane	25.0	22.8		ug/L		91	59 - 135
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
1,2-Dibromoethane	25.0	25.8		ug/L		103	77 - 120
Isopropylbenzene	25.0	24.2		ug/L		97	77 - 122
Methyl acetate	50.0	52.1		ug/L		104	74 - 133
Methyl tert-butyl ether	25.0	22.4		ug/L		89	77 - 120
Methylcyclohexane	25.0	25.4		ug/L		102	68 - 134

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

Lab Sample ID: LCS 480-592153/5
Matrix: Water
Analysis Batch: 592153

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			25.0	22.9		ug/L		92	75 - 124		
Styrene			25.0	24.4		ug/L		98	80 - 120		
Tetrachloroethene			25.0	23.9		ug/L		95	74 - 122		
Toluene			25.0	23.2		ug/L		93	80 - 122		
trans-1,2-Dichloroethene			25.0	23.5		ug/L		94	73 - 127		
trans-1,3-Dichloropropene			25.0	27.2		ug/L		109	80 - 120		
Trichloroethene			25.0	24.2		ug/L		97	74 - 123		
Trichlorofluoromethane			25.0	24.3		ug/L		97	62 - 150		
Vinyl chloride			25.0	22.4		ug/L		90	65 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*102*		*75 - 123*

Lab Sample ID: 480-188016-1 MS
Matrix: Water
Analysis Batch: 592153

Client Sample ID: MW-99-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND		25.0	27.2		ug/L		109	73 - 126		
1,1,2,2-Tetrachloroethane	ND		25.0	26.0		ug/L		104	76 - 120		
1,1,2-Trichloroethane	ND		25.0	24.2		ug/L		97	76 - 122		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	24.4		ug/L		97	61 - 148		
1,1-Dichloroethane	ND		25.0	26.8		ug/L		107	77 - 120		
1,1-Dichloroethene	ND		25.0	24.9		ug/L		100	66 - 127		
1,2,4-Trichlorobenzene	ND		25.0	23.0		ug/L		92	79 - 122		
1,2-Dibromo-3-Chloropropane	ND	*+ F1	25.0	36.3	F1	ug/L		145	56 - 134		
1,2-Dichlorobenzene	ND		25.0	23.9		ug/L		96	80 - 124		
1,2-Dichloroethane	ND		25.0	23.8		ug/L		95	75 - 120		
1,2-Dichloropropane	ND		25.0	24.1		ug/L		97	76 - 120		
1,3-Dichlorobenzene	ND		25.0	24.0		ug/L		96	77 - 120		
1,4-Dichlorobenzene	ND		25.0	24.3		ug/L		97	78 - 124		
2-Butanone (MEK)	ND		125	125		ug/L		100	57 - 140		
2-Hexanone	ND		125	132		ug/L		106	65 - 127		
4-Methyl-2-pentanone (MIBK)	ND		125	133		ug/L		107	71 - 125		
Acetone	ND		125	116		ug/L		93	56 - 142		
Benzene	ND		25.0	25.0		ug/L		100	71 - 124		
Bromodichloromethane	ND		25.0	26.6		ug/L		106	80 - 122		
Bromoform	ND	*+	25.0	28.3		ug/L		113	61 - 132		
Bromomethane	ND	F2	25.0	20.6		ug/L		82	55 - 144		
Carbon disulfide	ND		25.0	23.0		ug/L		92	59 - 134		
Carbon tetrachloride	ND		25.0	31.9		ug/L		128	72 - 134		
Chlorobenzene	ND		25.0	23.7		ug/L		95	80 - 120		
Dibromochloromethane	ND	*+ F1	25.0	31.2		ug/L		125	75 - 125		
Chloroethane	ND	F2	25.0	21.8		ug/L		87	69 - 136		
Chloroform	ND		25.0	24.9		ug/L		100	73 - 127		

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

Lab Sample ID: 480-188016-1 MS
Matrix: Water
Analysis Batch: 592153

Client Sample ID: MW-99-03
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		25.0	20.4		ug/L		82	68 - 124
cis-1,2-Dichloroethene	ND		25.0	25.5		ug/L		102	74 - 124
cis-1,3-Dichloropropene	ND		25.0	22.5		ug/L		90	74 - 124
Cyclohexane	ND		25.0	26.2		ug/L		105	59 - 135
Dichlorodifluoromethane	ND		25.0	20.3		ug/L		81	59 - 135
Ethylbenzene	ND		25.0	25.2		ug/L		101	77 - 123
1,2-Dibromoethane	ND		25.0	25.0		ug/L		100	77 - 120
Isopropylbenzene	ND		25.0	26.8		ug/L		107	77 - 122
Methyl acetate	ND		50.0	49.3		ug/L		99	74 - 133
Methyl tert-butyl ether	ND		25.0	23.0		ug/L		92	77 - 120
Methylcyclohexane	ND		25.0	26.4		ug/L		105	68 - 134
Methylene Chloride	ND		25.0	24.7		ug/L		99	75 - 124
Styrene	ND		25.0	24.6		ug/L		98	80 - 120
Tetrachloroethene	ND		25.0	25.2		ug/L		101	74 - 122
Toluene	ND		25.0	24.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	ND		25.0	26.0		ug/L		104	73 - 127
trans-1,3-Dichloropropene	ND		25.0	24.7		ug/L		99	80 - 120
Trichloroethene	ND		25.0	24.6		ug/L		98	74 - 123
Trichlorofluoromethane	ND	F2	25.0	22.0		ug/L		88	62 - 150
Vinyl chloride	ND	F2	25.0	20.8		ug/L		83	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*
Dibromofluoromethane (Surr)	*105*		*75 - 123*

Lab Sample ID: 480-188016-1 MSD
Matrix: Water
Analysis Batch: 592153

Client Sample ID: MW-99-03
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	ND		25.0	27.2		ug/L		109	73 - 126	0	15
1,1,2,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	76 - 120	1	15
1,1,2-Trichloroethane	ND		25.0	24.3		ug/L		97	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	23.5		ug/L		94	61 - 148	4	20
1,1-Dichloroethane	ND		25.0	25.7		ug/L		103	77 - 120	4	20
1,1-Dichloroethene	ND		25.0	24.5		ug/L		98	66 - 127	2	16
1,2,4-Trichlorobenzene	ND		25.0	22.9		ug/L		92	79 - 122	0	20
1,2-Dibromo-3-Chloropropane	ND	*+ F1	25.0	35.3	F1	ug/L		141	56 - 134	3	15
1,2-Dichlorobenzene	ND		25.0	23.9		ug/L		96	80 - 124	0	20
1,2-Dichloroethane	ND		25.0	23.6		ug/L		94	75 - 120	1	20
1,2-Dichloropropane	ND		25.0	24.8		ug/L		99	76 - 120	3	20
1,3-Dichlorobenzene	ND		25.0	24.3		ug/L		97	77 - 120	1	20
1,4-Dichlorobenzene	ND		25.0	24.9		ug/L		100	78 - 124	2	20
2-Butanone (MEK)	ND		125	132		ug/L		106	57 - 140	5	20
2-Hexanone	ND		125	141		ug/L		112	65 - 127	6	15
4-Methyl-2-pentanone (MIBK)	ND		125	131		ug/L		104	71 - 125	2	35

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

Lab Sample ID: 480-188016-1 MSD
Client Sample ID: MW-99-03
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 592153

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		125	113		ug/L		90	56 - 142	2	15
Benzene	ND		25.0	25.1		ug/L		100	71 - 124	1	13
Bromodichloromethane	ND		25.0	27.5		ug/L		110	80 - 122	3	15
Bromoform	ND	*+	25.0	29.9		ug/L		120	61 - 132	6	15
Bromomethane	ND	F2	25.0	24.5	F2	ug/L		98	55 - 144	17	15
Carbon disulfide	ND		25.0	22.8		ug/L		91	59 - 134	1	15
Carbon tetrachloride	ND		25.0	32.3		ug/L		129	72 - 134	1	15
Chlorobenzene	ND		25.0	24.3		ug/L		97	80 - 120	3	25
Dibromochloromethane	ND	*+ F1	25.0	33.0	F1	ug/L		132	75 - 125	6	15
Chloroethane	ND	F2	25.0	25.9	F2	ug/L		104	69 - 136	17	15
Chloroform	ND		25.0	24.2		ug/L		97	73 - 127	3	20
Chloromethane	ND		25.0	23.5		ug/L		94	68 - 124	14	15
cis-1,2-Dichloroethene	ND		25.0	23.9		ug/L		96	74 - 124	6	15
cis-1,3-Dichloropropene	ND		25.0	24.8		ug/L		99	74 - 124	10	15
Cyclohexane	ND		25.0	26.1		ug/L		105	59 - 135	0	20
Dichlorodifluoromethane	ND		25.0	24.6		ug/L		98	59 - 135	19	20
Ethylbenzene	ND		25.0	25.2		ug/L		101	77 - 123	0	15
1,2-Dibromoethane	ND		25.0	26.5		ug/L		106	77 - 120	6	15
Isopropylbenzene	ND		25.0	26.7		ug/L		107	77 - 122	0	20
Methyl acetate	ND		50.0	46.9		ug/L		94	74 - 133	5	20
Methyl tert-butyl ether	ND		25.0	22.0		ug/L		88	77 - 120	4	37
Methylcyclohexane	ND		25.0	25.5		ug/L		102	68 - 134	3	20
Methylene Chloride	ND		25.0	23.3		ug/L		93	75 - 124	6	15
Styrene	ND		25.0	25.3		ug/L		101	80 - 120	3	20
Tetrachloroethene	ND		25.0	25.0		ug/L		100	74 - 122	1	20
Toluene	ND		25.0	25.0		ug/L		100	80 - 122	1	15
trans-1,2-Dichloroethene	ND		25.0	25.6		ug/L		102	73 - 127	2	20
trans-1,3-Dichloropropene	ND		25.0	26.4		ug/L		106	80 - 120	7	15
Trichloroethene	ND		25.0	25.3		ug/L		101	74 - 123	3	16
Trichlorofluoromethane	ND	F2	25.0	27.2	F2	ug/L		109	62 - 150	21	20
Vinyl chloride	ND	F2	25.0	24.6	F2	ug/L		98	65 - 133	17	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*77 - 120*
4-Bromofluorobenzene (Surr)	*94*		*73 - 120*
Dibromofluoromethane (Surr)	*97*		*75 - 123*

Lab Sample ID: MB 480-592370/8
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 592370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/11/21 01:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/11/21 01:21	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/11/21 01:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/11/21 01:21	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/11/21 01:21	1

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

Lab Sample ID: MB 480-592370/8
Matrix: Water
Analysis Batch: 592370

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/11/21 01:21	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/11/21 01:21	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/11/21 01:21	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/11/21 01:21	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/11/21 01:21	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/11/21 01:21	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/11/21 01:21	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/11/21 01:21	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/11/21 01:21	1
2-Hexanone	ND		5.0	1.2	ug/L			08/11/21 01:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/11/21 01:21	1
Acetone	ND		10	3.0	ug/L			08/11/21 01:21	1
Benzene	ND		1.0	0.41	ug/L			08/11/21 01:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/11/21 01:21	1
Bromoform	ND		1.0	0.26	ug/L			08/11/21 01:21	1
Bromomethane	ND		1.0	0.69	ug/L			08/11/21 01:21	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/11/21 01:21	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/11/21 01:21	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/11/21 01:21	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/11/21 01:21	1
Chloroethane	ND		1.0	0.32	ug/L			08/11/21 01:21	1
Chloroform	ND		1.0	0.34	ug/L			08/11/21 01:21	1
Chloromethane	ND		1.0	0.35	ug/L			08/11/21 01:21	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/11/21 01:21	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			08/11/21 01:21	1
Cyclohexane	ND		1.0	0.18	ug/L			08/11/21 01:21	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/11/21 01:21	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/11/21 01:21	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/11/21 01:21	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/11/21 01:21	1
Methyl acetate	ND		2.5	1.3	ug/L			08/11/21 01:21	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/11/21 01:21	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/11/21 01:21	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/11/21 01:21	1
Styrene	ND		1.0	0.73	ug/L			08/11/21 01:21	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/11/21 01:21	1
Toluene	ND		1.0	0.51	ug/L			08/11/21 01:21	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			08/11/21 01:21	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			08/11/21 01:21	1
Trichloroethene	ND		1.0	0.46	ug/L			08/11/21 01:21	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			08/11/21 01:21	1
Vinyl chloride	ND		1.0	0.90	ug/L			08/11/21 01:21	1
Xylenes, Total	ND		2.0	0.66	ug/L			08/11/21 01:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/11/21 01:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*08/11/21 01:21*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*08/11/21 01:21*	*1*

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

Lab Sample ID: MB 480-592370/8
Matrix: Water
Analysis Batch: 592370

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*08/11/21 01:21*	*1*

Lab Sample ID: LCS 480-592370/6
Matrix: Water
Analysis Batch: 592370

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	25.7		ug/L		103	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.9		ug/L		104	76 - 120
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.9		ug/L		96	61 - 148
1,1-Dichloroethane	25.0	24.5		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	23.6		ug/L		94	66 - 127
1,2,4-Trichlorobenzene	25.0	22.9		ug/L		92	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	38.4	*+	ug/L		153	56 - 134
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 124
1,2-Dichloroethane	25.0	23.0		ug/L		92	75 - 120
1,2-Dichloropropane	25.0	24.7		ug/L		99	76 - 120
1,3-Dichlorobenzene	25.0	23.3		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 120
2-Butanone (MEK)	125	141		ug/L		112	57 - 140
2-Hexanone	125	160	*+	ug/L		128	65 - 127
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	71 - 125
Acetone	125	126		ug/L		101	56 - 142
Benzene	25.0	23.7		ug/L		95	71 - 124
Bromodichloromethane	25.0	28.4		ug/L		114	80 - 122
Bromoform	25.0	31.2		ug/L		125	61 - 132
Bromomethane	25.0	24.7		ug/L		99	55 - 144
Carbon disulfide	25.0	24.8		ug/L		99	59 - 134
Carbon tetrachloride	25.0	29.6		ug/L		118	72 - 134
Chlorobenzene	25.0	23.5		ug/L		94	80 - 120
Dibromochloromethane	25.0	34.0	*+	ug/L		136	75 - 125
Chloroethane	25.0	25.8		ug/L		103	69 - 136
Chloroform	25.0	23.1		ug/L		92	73 - 127
Chloromethane	25.0	24.2		ug/L		97	68 - 124
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	74 - 124
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124
Cyclohexane	25.0	25.3		ug/L		101	59 - 135
Dichlorodifluoromethane	25.0	29.0		ug/L		116	59 - 135
Ethylbenzene	25.0	23.7		ug/L		95	77 - 123
1,2-Dibromoethane	25.0	26.3		ug/L		105	77 - 120
Isopropylbenzene	25.0	23.9		ug/L		96	77 - 122
Methyl acetate	50.0	50.5		ug/L		101	74 - 133
Methyl tert-butyl ether	25.0	22.9		ug/L		92	77 - 120
Methylcyclohexane	25.0	24.6		ug/L		98	68 - 134
Methylene Chloride	25.0	24.7		ug/L		99	75 - 124
Styrene	25.0	24.3		ug/L		97	80 - 120
Tetrachloroethene	25.0	23.1		ug/L		92	74 - 122

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

Lab Sample ID: LCS 480-592370/6
Matrix: Water
Analysis Batch: 592370

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.9		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	80 - 120
Trichloroethene	25.0	23.9		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	27.6		ug/L		110	62 - 150
Vinyl chloride	25.0	25.7		ug/L		103	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*
Dibromofluoromethane (Surr)	*100*		*75 - 123*

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-170043/1-A
Matrix: Water
Analysis Batch: 170086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170043

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.24	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.30	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorobutanesulfonic acid (PFBS)	0.323	J	2.0	0.25	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29	ng/L		08/10/21 14:14	08/11/21 13:43	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.58	ng/L		08/10/21 14:14	08/11/21 13:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		08/10/21 14:14	08/11/21 13:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74	ng/L		08/10/21 14:14	08/11/21 13:43	1
6:2 FTS	ND		5.0	1.1	ng/L		08/10/21 14:14	08/11/21 13:43	1
8:2 FTS	ND		2.0	0.39	ng/L		08/10/21 14:14	08/11/21 13:43	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*89*		*25 - 150*	*08/10/21 14:14*	*08/11/21 13:43*	*1*
13C4 PFBA	*95*		*25 - 150*	*08/10/21 14:14*	*08/11/21 13:43*	*1*
13C5 PFPeA	*102*		*25 - 150*	*08/10/21 14:14*	*08/11/21 13:43*	*1*

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

Lab Sample ID: MB 200-170043/1-A
Matrix: Water
Analysis Batch: 170086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 170043

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	107		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C4 PFHpA	105		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C4 PFOA	105		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C5 PFNA	104		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C2 PFDA	103		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C2 PFUnA	97		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C2 PFDoA	95		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C2 PFTeDA	92		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C3 PFBS	110		50 - 150	08/10/21 14:14	08/11/21 13:43	1
18O2 PFHxS	104		50 - 150	08/10/21 14:14	08/11/21 13:43	1
13C4 PFOS	102		50 - 150	08/10/21 14:14	08/11/21 13:43	1
d3-NMeFOSAA	102		50 - 150	08/10/21 14:14	08/11/21 13:43	1
d5-NEtFOSAA	97		50 - 150	08/10/21 14:14	08/11/21 13:43	1
M2-6:2 FTS	105		25 - 150	08/10/21 14:14	08/11/21 13:43	1
M2-8:2 FTS	107		25 - 150	08/10/21 14:14	08/11/21 13:43	1

Lab Sample ID: LCS 200-170043/2-A
Matrix: Water
Analysis Batch: 170086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170043

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	42.5		ng/L		106	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	38.9		ng/L		97	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	39.3		ng/L		98	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	42.3		ng/L		106	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	41.7		ng/L		104	70 - 130
Perfluorononanoic acid (PFNA)	40.0	40.8		ng/L		102	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	41.3		ng/L		103	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	39.3		ng/L		98	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	39.4		ng/L		99	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	37.0		ng/L		93	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	39.9		ng/L		100	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	36.6		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.2		ng/L		94	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.3		ng/L		108	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	37.4		ng/L		97	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	35.5		ng/L		96	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	37.6		ng/L		94	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	46.3		ng/L		116	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.2		ng/L		101	70 - 130

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

Lab Sample ID: LCS 200-170043/2-A
Matrix: Water
Analysis Batch: 170086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 170043

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
6:2 FTS			37.9	34.4		ng/L		91	50 - 150		
8:2 FTS			38.3	40.3		ng/L		105	50 - 150		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*88*		*25 - 150*
13C4 PFBA	*96*		*25 - 150*
13C5 PFPeA	*103*		*25 - 150*
13C2 PFHxA	*101*		*50 - 150*
13C4 PFHpA	*94*		*50 - 150*
13C4 PFOA	*99*		*50 - 150*
13C5 PFNA	*98*		*50 - 150*
13C2 PFDA	*99*		*50 - 150*
13C2 PFUnA	*103*		*50 - 150*
13C2 PFDoA	*95*		*50 - 150*
13C2 PFTeDA	*88*		*50 - 150*
13C3 PFBS	*107*		*50 - 150*
18O2 PFHxS	*105*		*50 - 150*
13C4 PFOS	*100*		*50 - 150*
d3-NMeFOSAA	*93*		*50 - 150*
d5-NEtFOSAA	*98*		*50 - 150*
M2-6:2 FTS	*116*		*25 - 150*
M2-8:2 FTS	*100*		*25 - 150*

Lab Sample ID: 480-188016-6 MS
Matrix: Water
Analysis Batch: 170086

Client Sample ID: MW-86-1SH
Prep Type: Total/NA
Prep Batch: 170043

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorobutanoic acid (PFBA)	8.2		38.2	47.1		ng/L		102	40 - 160		
Perfluoropentanoic acid (PFPeA)	17		38.2	52.8		ng/L		95	40 - 160		
Perfluorohexanoic acid (PFHxA)	17		38.2	51.5		ng/L		91	40 - 160		
Perfluoroheptanoic acid (PFHpA)	3.5		38.2	40.7		ng/L		97	40 - 160		
Perfluorooctanoic acid (PFOA)	9.9		38.2	48.4		ng/L		101	40 - 160		
Perfluorononanoic acid (PFNA)	1.9		38.2	39.6		ng/L		99	40 - 160		
Perfluorodecanoic acid (PFDA)	0.29	J	38.2	35.0		ng/L		91	40 - 160		
Perfluoroundecanoic acid (PFUnA)	ND		38.2	39.0		ng/L		102	40 - 160		
Perfluorododecanoic acid (PFDoA)	ND		38.2	37.2		ng/L		98	40 - 160		
Perfluorotridecanoic acid (PFTriA)	ND		38.2	36.2		ng/L		95	40 - 160		
Perfluorotetradecanoic acid (PFTeA)	ND		38.2	38.9		ng/L		102	40 - 160		
Perfluorobutanesulfonic acid (PFBS)	2.6	B	33.7	36.9		ng/L		102	40 - 160		
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	34.7	35.4		ng/L		98	40 - 160		
Perfluoroheptanesulfonic Acid (PFHpS)	0.38	J	36.3	36.4		ng/L		99	40 - 160		
Perfluorodecanesulfonic acid (PFDS)	ND		36.8	30.2		ng/L		82	40 - 160		

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

Lab Sample ID: 480-188016-6 MS
Matrix: Water
Analysis Batch: 170086

Client Sample ID: MW-86-1SH
Prep Type: Total/NA
Prep Batch: 170043

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorooctanesulfonic acid (PFOS)	17		35.4	47.9		ng/L		88	40 - 160
Perfluorooctanesulfonamide (FOSA)	ND		38.2	37.3		ng/L		98	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		38.2	40.7		ng/L		107	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		38.2	35.9		ng/L		94	40 - 160
6:2 FTS	ND		36.2	35.7		ng/L		99	40 - 160
8:2 FTS	ND		36.6	37.2		ng/L		102	40 - 160

Isotope Dilution	*MS %Recovery*	*MS Qualifier*	*Limits*
13C8 FOSA	*92*		*25 - 150*
13C4 PFBA	*83*		*25 - 150*
13C5 PFPeA	*97*		*25 - 150*
13C2 PFHxA	*97*		*50 - 150*
13C4 PFHpA	*98*		*50 - 150*
13C4 PFOA	*100*		*50 - 150*
13C5 PFNA	*97*		*50 - 150*
13C2 PFDA	*98*		*50 - 150*
13C2 PFUnA	*90*		*50 - 150*
13C2 PFDoA	*83*		*50 - 150*
13C2 PFTeDA	*83*		*50 - 150*
13C3 PFBS	*98*		*50 - 150*
18O2 PFHxS	*96*		*50 - 150*
13C4 PFOS	*99*		*50 - 150*
d3-NMeFOSAA	*84*		*50 - 150*
d5-NEtFOSAA	*85*		*50 - 150*
M2-6:2 FTS	*100*		*25 - 150*
M2-8:2 FTS	*93*		*25 - 150*

Lab Sample ID: 480-188016-6 MSD
Matrix: Water
Analysis Batch: 170086

Client Sample ID: MW-86-1SH
Prep Type: Total/NA
Prep Batch: 170043

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	8.2		38.3	46.9		ng/L		101	40 - 160	0	30
Perfluoropentanoic acid (PFPeA)	17		38.3	53.9		ng/L		97	40 - 160	2	30
Perfluorohexanoic acid (PFHxA)	17		38.3	54.1		ng/L		97	40 - 160	5	20
Perfluoroheptanoic acid (PFHpA)	3.5		38.3	41.8		ng/L		100	40 - 160	3	20
Perfluorooctanoic acid (PFOA)	9.9		38.3	44.0		ng/L		89	40 - 160	9	20
Perfluorononanoic acid (PFNA)	1.9		38.3	41.0		ng/L		102	40 - 160	3	20
Perfluorodecanoic acid (PFDA)	0.29	J	38.3	36.6		ng/L		95	40 - 160	4	20
Perfluoroundecanoic acid (PFUnA)	ND		38.3	36.5		ng/L		95	40 - 160	7	20
Perfluorododecanoic acid (PFDoA)	ND		38.3	37.4		ng/L		98	40 - 160	1	20
Perfluorotridecanoic acid (PFTriA)	ND		38.3	35.5		ng/L		93	40 - 160	2	20
Perfluorotetradecanoic acid (PFTeA)	ND		38.3	35.8		ng/L		94	40 - 160	8	20

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

Lab Sample ID: 480-188016-6 MSD
Client Sample ID: MW-86-1SH
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 170086
Prep Batch: 170043

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanesulfonic acid (PFBS)	2.6	B	33.8	34.8		ng/L		95	40 - 160	6	20
Perfluorohexanesulfonic acid (PFHxS)	1.4	J	34.8	34.7		ng/L		96	40 - 160	2	20
Perfluoroheptanesulfonic Acid (PFHpS)	0.38	J	36.4	37.8		ng/L		103	40 - 160	4	30
Perfluorodecanesulfonic acid (PFDS)	ND		36.9	29.2		ng/L		79	40 - 160	3	30
Perfluorooctanesulfonic acid (PFOS)	17		35.5	47.3		ng/L		87	40 - 160	1	20
Perfluorooctanesulfonamide (FOSA)	ND		38.3	37.3		ng/L		97	40 - 160	0	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		38.3	36.8		ng/L		96	40 - 160	10	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		38.3	35.0		ng/L		91	40 - 160	3	20
6:2 FTS	ND		36.3	37.0		ng/L		102	40 - 160	4	30
8:2 FTS	ND		36.7	40.0		ng/L		109	40 - 160	7	30

Isotope Dilution	*MSD %Recovery*	*MSD Qualifier*	*Limits*
13C8 FOSA	*94*		*25 - 150*
13C4 PFBA	*87*		*25 - 150*
13C5 PFPeA	*98*		*25 - 150*
13C2 PFHxA	*97*		*50 - 150*
13C4 PFHpA	*98*		*50 - 150*
13C4 PFOA	*107*		*50 - 150*
13C5 PFNA	*99*		*50 - 150*
13C2 PFDA	*99*		*50 - 150*
13C2 PFUnA	*92*		*50 - 150*
13C2 PFDoA	*85*		*50 - 150*
13C2 PFTeDA	*88*		*50 - 150*
13C3 PFBS	*105*		*50 - 150*
18O2 PFHxS	*103*		*50 - 150*
13C4 PFOS	*103*		*50 - 150*
d3-NMeFOSAA	*93*		*50 - 150*
d5-NEtFOSAA	*89*		*50 - 150*
M2-6:2 FTS	*105*		*25 - 150*
M2-8:2 FTS	*94*		*25 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-592076/1-A
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 592475
Prep Batch: 592076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 13:19	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 13:19	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 13:19	1
Barium	ND		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 13:19	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 13:19	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 480-592076/1-A
Matrix: Water
Analysis Batch: 592475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592076

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 13:19	1
Calcium	ND		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 13:19	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 13:19	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 13:19	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 13:19	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 13:19	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 13:19	1
Magnesium	ND		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 13:19	1
Manganese	0.000500	J	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 13:19	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 13:19	1
Potassium	ND		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 13:19	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 13:19	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 13:19	1
Sodium	ND		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 13:19	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 13:19	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 13:19	1
Zinc	ND		0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 13:19	1

Lab Sample ID: LCS 480-592076/2-A
Matrix: Water
Analysis Batch: 592475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592076

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	10.00		mg/L		100	80 - 120
Antimony	0.200	0.217		mg/L		108	80 - 120
Arsenic	0.200	0.205		mg/L		102	80 - 120
Barium	0.200	0.224		mg/L		112	80 - 120
Beryllium	0.200	0.209		mg/L		105	80 - 120
Cadmium	0.200	0.201		mg/L		100	80 - 120
Calcium	10.0	10.14		mg/L		101	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Cobalt	0.200	0.198		mg/L		99	80 - 120
Copper	0.200	0.199		mg/L		99	80 - 120
Iron	10.0	9.79		mg/L		98	80 - 120
Lead	0.200	0.201		mg/L		101	80 - 120
Magnesium	10.0	9.69		mg/L		97	80 - 120
Manganese	0.200	0.204		mg/L		102	80 - 120
Nickel	0.200	0.199		mg/L		99	80 - 120
Potassium	10.0	10.10		mg/L		101	80 - 120
Selenium	0.200	0.194		mg/L		97	80 - 120
Silver	0.0500	0.0469		mg/L		94	80 - 120
Sodium	10.0	10.27		mg/L		102	80 - 120
Thallium	0.200	0.204		mg/L		102	80 - 120
Vanadium	0.200	0.201		mg/L		100	80 - 120
Zinc	0.200	0.202		mg/L		101	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-188016-1 MS
Matrix: Water
Analysis Batch: 592475

Client Sample ID: MW-99-03
Prep Type: Total/NA
Prep Batch: 592076

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aluminum	0.11	J	10.0	10.05		mg/L		99	75 - 125		
Antimony	ND		0.200	0.219		mg/L		110	75 - 125		
Arsenic	ND		0.200	0.211		mg/L		105	75 - 125		
Barium	0.094		0.200	0.310		mg/L		108	75 - 125		
Beryllium	ND		0.200	0.209		mg/L		105	75 - 125		
Cadmium	ND		0.200	0.201		mg/L		100	75 - 125		
Calcium	40.1		10.0	49.14	4	mg/L		90	75 - 125		
Chromium	0.016		0.200	0.213		mg/L		98	75 - 125		
Cobalt	ND		0.200	0.199		mg/L		100	75 - 125		
Copper	0.0061	J	0.200	0.204		mg/L		99	75 - 125		
Iron	0.062		10.0	9.72		mg/L		97	75 - 125		
Lead	ND		0.200	0.204		mg/L		102	75 - 125		
Magnesium	14.3		10.0	23.58		mg/L		93	75 - 125		
Manganese	0.0051	B	0.200	0.206		mg/L		100	75 - 125		
Nickel	0.017		0.200	0.216		mg/L		99	75 - 125		
Potassium	1.8		10.0	11.88		mg/L		101	75 - 125		
Selenium	ND		0.200	0.194		mg/L		97	75 - 125		
Silver	ND		0.0500	0.0470		mg/L		94	75 - 125		
Sodium	22.8		10.0	32.32		mg/L		95	75 - 125		
Thallium	ND		0.200	0.205		mg/L		102	75 - 125		
Vanadium	ND		0.200	0.201		mg/L		101	75 - 125		
Zinc	0.0028	J	0.200	0.204		mg/L		100	75 - 125		

Lab Sample ID: 480-188016-1 MSD
Matrix: Water
Analysis Batch: 592475

Client Sample ID: MW-99-03
Prep Type: Total/NA
Prep Batch: 592076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	0.11	J	10.0	9.93		mg/L		98	75 - 125	1	20
Antimony	ND		0.200	0.217		mg/L		108	75 - 125	1	20
Arsenic	ND		0.200	0.207		mg/L		104	75 - 125	2	20
Barium	0.094		0.200	0.309		mg/L		108	75 - 125	0	20
Beryllium	ND		0.200	0.208		mg/L		104	75 - 125	0	20
Cadmium	ND		0.200	0.199		mg/L		100	75 - 125	1	20
Calcium	40.1		10.0	49.85	4	mg/L		98	75 - 125	1	20
Chromium	0.016		0.200	0.210		mg/L		97	75 - 125	1	20
Cobalt	ND		0.200	0.198		mg/L		99	75 - 125	1	20
Copper	0.0061	J	0.200	0.202		mg/L		98	75 - 125	1	20
Iron	0.062		10.0	9.64		mg/L		96	75 - 125	1	20
Lead	ND		0.200	0.202		mg/L		101	75 - 125	1	20
Magnesium	14.3		10.0	23.66		mg/L		93	75 - 125	0	20
Manganese	0.0051	B	0.200	0.204		mg/L		99	75 - 125	1	20
Nickel	0.017		0.200	0.214		mg/L		99	75 - 125	1	20
Potassium	1.8		10.0	11.85		mg/L		101	75 - 125	0	20
Selenium	ND		0.200	0.195		mg/L		97	75 - 125	0	20
Silver	ND		0.0500	0.0464		mg/L		93	75 - 125	1	20
Sodium	22.8		10.0	32.64		mg/L		98	75 - 125	1	20
Thallium	ND		0.200	0.202		mg/L		101	75 - 125	1	20
Vanadium	ND		0.200	0.199		mg/L		99	75 - 125	1	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-188016-1 MSD
Matrix: Water
Analysis Batch: 592475

Client Sample ID: MW-99-03
Prep Type: Total/NA
Prep Batch: 592076

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	0.0028	J	0.200	0.203		mg/L		100	75 - 125	0	20

Lab Sample ID: MB 480-592077/1-A
Matrix: Water
Analysis Batch: 592485

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		0.20	0.060	mg/L		08/09/21 13:12	08/10/21 15:36	1
Antimony	ND		0.020	0.0068	mg/L		08/09/21 13:12	08/10/21 15:36	1
Arsenic	ND		0.015	0.0056	mg/L		08/09/21 13:12	08/10/21 15:36	1
Barium	ND		0.0020	0.00070	mg/L		08/09/21 13:12	08/10/21 15:36	1
Beryllium	ND		0.0020	0.00030	mg/L		08/09/21 13:12	08/10/21 15:36	1
Cadmium	ND		0.0020	0.00050	mg/L		08/09/21 13:12	08/10/21 15:36	1
Calcium	ND		0.50	0.10	mg/L		08/09/21 13:12	08/10/21 15:36	1
Chromium	ND		0.0040	0.0010	mg/L		08/09/21 13:12	08/10/21 15:36	1
Cobalt	ND		0.0040	0.00063	mg/L		08/09/21 13:12	08/10/21 15:36	1
Copper	ND		0.010	0.0016	mg/L		08/09/21 13:12	08/10/21 15:36	1
Iron	ND		0.050	0.019	mg/L		08/09/21 13:12	08/10/21 15:36	1
Lead	ND		0.010	0.0030	mg/L		08/09/21 13:12	08/10/21 15:36	1
Magnesium	ND		0.20	0.043	mg/L		08/09/21 13:12	08/10/21 15:36	1
Manganese	0.000590	J	0.0030	0.00040	mg/L		08/09/21 13:12	08/10/21 15:36	1
Nickel	ND		0.010	0.0013	mg/L		08/09/21 13:12	08/10/21 15:36	1
Selenium	ND		0.025	0.0087	mg/L		08/09/21 13:12	08/10/21 15:36	1
Silver	ND		0.0060	0.0017	mg/L		08/09/21 13:12	08/10/21 15:36	1
Sodium	ND		1.0	0.32	mg/L		08/09/21 13:12	08/10/21 15:36	1
Thallium	ND		0.020	0.010	mg/L		08/09/21 13:12	08/10/21 15:36	1
Vanadium	ND		0.0050	0.0015	mg/L		08/09/21 13:12	08/10/21 15:36	1
Zinc	0.00227	J	0.010	0.0015	mg/L		08/09/21 13:12	08/10/21 15:36	1

Lab Sample ID: MB 480-592077/1-A
Matrix: Water
Analysis Batch: 592610

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592077

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		08/09/21 13:12	08/11/21 14:42	1

Lab Sample ID: LCS 480-592077/2-A
Matrix: Water
Analysis Batch: 592485

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	10.0	9.70		mg/L		97	80 - 120
Antimony	0.400	0.425		mg/L		106	80 - 120
Arsenic	0.400	0.409		mg/L		102	80 - 120
Barium	0.200	0.221		mg/L		111	80 - 120
Beryllium	0.400	0.412		mg/L		103	80 - 120
Cadmium	0.400	0.393		mg/L		98	80 - 120
Calcium	20.0	19.52		mg/L		98	80 - 120
Chromium	0.400	0.386		mg/L		96	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-592077/2-A
Matrix: Water
Analysis Batch: 592485

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	0.400	0.392		mg/L		98	80 - 120
Copper	0.400	0.395		mg/L		99	80 - 120
Iron	20.0	19.08		mg/L		95	80 - 120
Lead	0.400	0.400		mg/L		100	80 - 120
Magnesium	20.0	18.91		mg/L		95	80 - 120
Manganese	0.400	0.397		mg/L		99	80 - 120
Nickel	0.400	0.392		mg/L		98	80 - 120
Selenium	0.400	0.387		mg/L		97	80 - 120
Silver	0.0500	0.0452		mg/L		90	80 - 120
Sodium	10.0	10.03		mg/L		100	80 - 120
Thallium	0.400	0.406		mg/L		101	80 - 120
Vanadium	0.400	0.395		mg/L		99	80 - 120
Zinc	0.400	0.401		mg/L		100	80 - 120

Lab Sample ID: LCS 480-592077/2-A
Matrix: Water
Analysis Batch: 592610

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592077

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	10.27		mg/L		103	80 - 120

Lab Sample ID: MB 480-592922/1-A
Matrix: Water
Analysis Batch: 593051

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 592922

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	ND		0.50	0.10	mg/L		08/16/21 09:18	08/16/21 20:22	1
Zinc	ND		0.010	0.0015	mg/L		08/16/21 09:18	08/16/21 20:22	1

Lab Sample ID: LCS 480-592922/2-A
Matrix: Water
Analysis Batch: 593051

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 592922

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	10.0	9.78		mg/L		98	80 - 120
Zinc	0.200	0.196		mg/L		98	80 - 120

Lab Sample ID: 480-188016-1 MS
Matrix: Water
Analysis Batch: 592485

Client Sample ID: MW-99-03
Prep Type: Dissolved
Prep Batch: 592077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	ND		10.0	9.71		mg/L		97	75 - 125
Antimony	ND		0.400	0.428		mg/L		107	75 - 125
Arsenic	ND		0.400	0.413		mg/L		103	75 - 125
Barium	0.096		0.200	0.314		mg/L		109	75 - 125
Beryllium	ND		0.400	0.414		mg/L		104	75 - 125
Cadmium	ND		0.400	0.389		mg/L		97	75 - 125
Calcium	39.4		20.0	58.23		mg/L		94	75 - 125
Chromium	0.015		0.400	0.399		mg/L		96	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-188016-1 MS
Matrix: Water
Analysis Batch: 592485

Client Sample ID: MW-99-03
Prep Type: Dissolved
Prep Batch: 592077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cobalt	ND		0.400	0.401		mg/L		100	75 - 125
Copper	0.0056	J	0.400	0.399		mg/L		98	75 - 125
Iron	ND		20.0	18.89		mg/L		94	75 - 125
Lead	ND		0.400	0.405		mg/L		101	75 - 125
Magnesium	14.0		20.0	32.68		mg/L		93	75 - 125
Manganese	0.00047	J B	0.400	0.394		mg/L		98	75 - 125
Nickel	0.016		0.400	0.414		mg/L		100	75 - 125
Selenium	ND		0.400	0.390		mg/L		97	75 - 125
Silver	ND		0.0500	0.0458		mg/L		92	75 - 125
Sodium	22.6		10.0	32.20		mg/L		95	75 - 125
Thallium	ND		0.400	0.410		mg/L		103	75 - 125
Vanadium	ND		0.400	0.398		mg/L		99	75 - 125
Zinc	0.0046	J B	0.400	0.402		mg/L		99	75 - 125

Lab Sample ID: 480-188016-1 MS
Matrix: Water
Analysis Batch: 592610

Client Sample ID: MW-99-03
Prep Type: Dissolved
Prep Batch: 592077

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Potassium	1.9		10.0	12.15		mg/L		103	75 - 125

Lab Sample ID: 480-188016-1 MSD
Matrix: Water
Analysis Batch: 592485

Client Sample ID: MW-99-03
Prep Type: Dissolved
Prep Batch: 592077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	ND		10.0	9.78		mg/L		98	75 - 125	1	20
Antimony	ND		0.400	0.430		mg/L		107	75 - 125	0	20
Arsenic	ND		0.400	0.420		mg/L		105	75 - 125	2	20
Barium	0.096		0.200	0.317		mg/L		111	75 - 125	1	20
Beryllium	ND		0.400	0.419		mg/L		105	75 - 125	1	20
Cadmium	ND		0.400	0.393		mg/L		98	75 - 125	1	20
Calcium	39.4		20.0	58.64		mg/L		96	75 - 125	1	20
Chromium	0.015		0.400	0.405		mg/L		98	75 - 125	2	20
Cobalt	ND		0.400	0.408		mg/L		102	75 - 125	2	20
Copper	0.0056	J	0.400	0.404		mg/L		100	75 - 125	1	20
Iron	ND		20.0	19.15		mg/L		96	75 - 125	1	20
Lead	ND		0.400	0.415		mg/L		104	75 - 125	2	20
Magnesium	14.0		20.0	33.14		mg/L		95	75 - 125	1	20
Manganese	0.00047	J B	0.400	0.400		mg/L		100	75 - 125	2	20
Nickel	0.016		0.400	0.419		mg/L		101	75 - 125	1	20
Selenium	ND		0.400	0.394		mg/L		98	75 - 125	1	20
Silver	ND		0.0500	0.0442		mg/L		88	75 - 125	4	20
Sodium	22.6		10.0	32.48		mg/L		98	75 - 125	1	20
Thallium	ND		0.400	0.417		mg/L		104	75 - 125	2	20
Vanadium	ND		0.400	0.403		mg/L		101	75 - 125	1	20
Zinc	0.0046	J B	0.400	0.410		mg/L		101	75 - 125	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 480-188016-1 MSD
Matrix: Water
Analysis Batch: 592610

Client Sample ID: MW-99-03
Prep Type: Dissolved
Prep Batch: 592077

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Potassium	1.9		10.0	12.27		mg/L		104	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-592246/1-A
Matrix: Water
Analysis Batch: 592428

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592246

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/10/21 13:08	08/10/21 17:12	1

Lab Sample ID: LCS 480-592246/2-A
Matrix: Water
Analysis Batch: 592428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592246

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00660		mg/L		99	80 - 120

Lab Sample ID: 480-188016-1 MS
Matrix: Water
Analysis Batch: 592428

Client Sample ID: MW-99-03
Prep Type: Total/NA
Prep Batch: 592246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		0.00667	0.00667		mg/L		100	80 - 120

Lab Sample ID: 480-188016-1 MSD
Matrix: Water
Analysis Batch: 592428

Client Sample ID: MW-99-03
Prep Type: Total/NA
Prep Batch: 592246

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00682		mg/L		102	80 - 120	2	20

Lab Sample ID: MB 480-592507/1-A
Matrix: Water
Analysis Batch: 592594

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592507

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.000043	mg/L		08/11/21 13:05	08/11/21 17:28	1

Lab Sample ID: LCS 480-592507/2-A
Matrix: Water
Analysis Batch: 592594

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592507

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00667	0.00647		mg/L		97	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 480-188016-1 MS
Matrix: Water
Analysis Batch: 592594

Client Sample ID: MW-99-03
Prep Type: Dissolved
Prep Batch: 592507

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00667	0.00655		mg/L		98	80 - 120		

Lab Sample ID: 480-188016-1 MSD
Matrix: Water
Analysis Batch: 592594

Client Sample ID: MW-99-03
Prep Type: Dissolved
Prep Batch: 592507

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00660		mg/L		99	80 - 120	1	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
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.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Analysis Batch: 592153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Total/NA	Water	8260C	
480-188016-2	MW-86-24A	Total/NA	Water	8260C	
480-188016-3	MW-99-01	Total/NA	Water	8260C	
480-188016-4	MW-86-28	Total/NA	Water	8260C	
480-188016-5	MW-12	Total/NA	Water	8260C	
480-188016-6	MW-86-1SH	Total/NA	Water	8260C	
480-188016-7	MW-86-X3	Total/NA	Water	8260C	
480-188016-8	MW-99-02	Total/NA	Water	8260C	
480-188016-9	MW-99-04	Total/NA	Water	8260C	
480-188016-10	MW-86-27	Total/NA	Water	8260C	
480-188016-11	DUP-080321	Total/NA	Water	8260C	
MB 480-592153/7	Method Blank	Total/NA	Water	8260C	
LCS 480-592153/5	Lab Control Sample	Total/NA	Water	8260C	
480-188016-1 MS	MW-99-03	Total/NA	Water	8260C	
480-188016-1 MSD	MW-99-03	Total/NA	Water	8260C	

Analysis Batch: 592370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-12	TB-080321	Total/NA	Water	8260C	
MB 480-592370/8	Method Blank	Total/NA	Water	8260C	
LCS 480-592370/6	Lab Control Sample	Total/NA	Water	8260C	

LCMS

Prep Batch: 170043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-6	MW-86-1SH	Total/NA	Water	3535	
480-188016-7	MW-86-X3	Total/NA	Water	3535	
480-188016-8	MW-99-02	Total/NA	Water	3535	
480-188016-9	MW-99-04	Total/NA	Water	3535	
480-188016-10	MW-86-27	Total/NA	Water	3535	
480-188016-11	DUP-080321	Total/NA	Water	3535	
480-188016-13	FB-080321	Total/NA	Water	3535	
480-188016-14	EB-080321	Total/NA	Water	3535	
MB 200-170043/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-170043/2-A	Lab Control Sample	Total/NA	Water	3535	
480-188016-6 MS	MW-86-1SH	Total/NA	Water	3535	
480-188016-6 MSD	MW-86-1SH	Total/NA	Water	3535	

Analysis Batch: 170086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-6	MW-86-1SH	Total/NA	Water	537 (modified)	170043
480-188016-7	MW-86-X3	Total/NA	Water	537 (modified)	170043
480-188016-8	MW-99-02	Total/NA	Water	537 (modified)	170043
480-188016-9	MW-99-04	Total/NA	Water	537 (modified)	170043
480-188016-10	MW-86-27	Total/NA	Water	537 (modified)	170043
480-188016-11	DUP-080321	Total/NA	Water	537 (modified)	170043
480-188016-13	FB-080321	Total/NA	Water	537 (modified)	170043
480-188016-14	EB-080321	Total/NA	Water	537 (modified)	170043
MB 200-170043/1-A	Method Blank	Total/NA	Water	537 (modified)	170043
LCS 200-170043/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	170043

LCMS (Continued)

Analysis Batch: 170086 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-6 MS	MW-86-1SH	Total/NA	Water	537 (modified)	170043
480-188016-6 MSD	MW-86-1SH	Total/NA	Water	537 (modified)	170043

Metals

Prep Batch: 592076

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Total/NA	Water	3005A	
480-188016-2	MW-86-24A	Total/NA	Water	3005A	
480-188016-3	MW-99-01	Total/NA	Water	3005A	
480-188016-4	MW-86-28	Total/NA	Water	3005A	
480-188016-5	MW-12	Total/NA	Water	3005A	
480-188016-6	MW-86-1SH	Total/NA	Water	3005A	
480-188016-7	MW-86-X3	Total/NA	Water	3005A	
480-188016-8	MW-99-02	Total/NA	Water	3005A	
480-188016-9	MW-99-04	Total/NA	Water	3005A	
480-188016-10	MW-86-27	Total/NA	Water	3005A	
480-188016-11	DUP-080321	Total/NA	Water	3005A	
MB 480-592076/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-592076/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-188016-1 MS	MW-99-03	Total/NA	Water	3005A	
480-188016-1 MSD	MW-99-03	Total/NA	Water	3005A	

Prep Batch: 592077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Dissolved	Water	3005A	
480-188016-2	MW-86-24A	Dissolved	Water	3005A	
480-188016-3	MW-99-01	Dissolved	Water	3005A	
480-188016-4	MW-86-28	Dissolved	Water	3005A	
480-188016-5	MW-12	Dissolved	Water	3005A	
480-188016-6	MW-86-1SH	Dissolved	Water	3005A	
480-188016-7	MW-86-X3	Dissolved	Water	3005A	
480-188016-8	MW-99-02	Dissolved	Water	3005A	
480-188016-9	MW-99-04	Dissolved	Water	3005A	
480-188016-10	MW-86-27	Dissolved	Water	3005A	
480-188016-11	DUP-080321	Dissolved	Water	3005A	
MB 480-592077/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-592077/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
480-188016-1 MS	MW-99-03	Dissolved	Water	3005A	
480-188016-1 MSD	MW-99-03	Dissolved	Water	3005A	

Prep Batch: 592246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Total/NA	Water	7470A	
480-188016-2	MW-86-24A	Total/NA	Water	7470A	
480-188016-3	MW-99-01	Total/NA	Water	7470A	
480-188016-4	MW-86-28	Total/NA	Water	7470A	
480-188016-5	MW-12	Total/NA	Water	7470A	
480-188016-6	MW-86-1SH	Total/NA	Water	7470A	
480-188016-7	MW-86-X3	Total/NA	Water	7470A	
480-188016-8	MW-99-02	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 592246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-9	MW-99-04	Total/NA	Water	7470A	
480-188016-10	MW-86-27	Total/NA	Water	7470A	
480-188016-11	DUP-080321	Total/NA	Water	7470A	
MB 480-592246/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-592246/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-188016-1 MS	MW-99-03	Total/NA	Water	7470A	
480-188016-1 MSD	MW-99-03	Total/NA	Water	7470A	

Analysis Batch: 592428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Total/NA	Water	7470A	592246
480-188016-2	MW-86-24A	Total/NA	Water	7470A	592246
480-188016-3	MW-99-01	Total/NA	Water	7470A	592246
480-188016-4	MW-86-28	Total/NA	Water	7470A	592246
480-188016-5	MW-12	Total/NA	Water	7470A	592246
480-188016-6	MW-86-1SH	Total/NA	Water	7470A	592246
480-188016-7	MW-86-X3	Total/NA	Water	7470A	592246
480-188016-8	MW-99-02	Total/NA	Water	7470A	592246
480-188016-9	MW-99-04	Total/NA	Water	7470A	592246
480-188016-10	MW-86-27	Total/NA	Water	7470A	592246
480-188016-11	DUP-080321	Total/NA	Water	7470A	592246
MB 480-592246/1-A	Method Blank	Total/NA	Water	7470A	592246
LCS 480-592246/2-A	Lab Control Sample	Total/NA	Water	7470A	592246
480-188016-1 MS	MW-99-03	Total/NA	Water	7470A	592246
480-188016-1 MSD	MW-99-03	Total/NA	Water	7470A	592246

Analysis Batch: 592475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Total/NA	Water	6010C	592076
480-188016-2	MW-86-24A	Total/NA	Water	6010C	592076
480-188016-3	MW-99-01	Total/NA	Water	6010C	592076
480-188016-4	MW-86-28	Total/NA	Water	6010C	592076
480-188016-5	MW-12	Total/NA	Water	6010C	592076
480-188016-6	MW-86-1SH	Total/NA	Water	6010C	592076
480-188016-7	MW-86-X3	Total/NA	Water	6010C	592076
480-188016-8	MW-99-02	Total/NA	Water	6010C	592076
480-188016-9	MW-99-04	Total/NA	Water	6010C	592076
480-188016-10	MW-86-27	Total/NA	Water	6010C	592076
480-188016-11	DUP-080321	Total/NA	Water	6010C	592076
MB 480-592076/1-A	Method Blank	Total/NA	Water	6010C	592076
LCS 480-592076/2-A	Lab Control Sample	Total/NA	Water	6010C	592076
480-188016-1 MS	MW-99-03	Total/NA	Water	6010C	592076
480-188016-1 MSD	MW-99-03	Total/NA	Water	6010C	592076

Analysis Batch: 592485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Dissolved	Water	6010C	592077
480-188016-2	MW-86-24A	Dissolved	Water	6010C	592077
480-188016-3	MW-99-01	Dissolved	Water	6010C	592077
480-188016-4	MW-86-28	Dissolved	Water	6010C	592077
480-188016-5	MW-12	Dissolved	Water	6010C	592077

Metals (Continued)

Analysis Batch: 592485 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-6	MW-86-1SH	Dissolved	Water	6010C	592077
480-188016-7	MW-86-X3	Dissolved	Water	6010C	592077
480-188016-8	MW-99-02	Dissolved	Water	6010C	592077
480-188016-9	MW-99-04	Dissolved	Water	6010C	592077
480-188016-10	MW-86-27	Dissolved	Water	6010C	592077
480-188016-11	DUP-080321	Dissolved	Water	6010C	592077
MB 480-592077/1-A	Method Blank	Total Recoverable	Water	6010C	592077
LCS 480-592077/2-A	Lab Control Sample	Total Recoverable	Water	6010C	592077
480-188016-1 MS	MW-99-03	Dissolved	Water	6010C	592077
480-188016-1 MSD	MW-99-03	Dissolved	Water	6010C	592077

Prep Batch: 592507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Dissolved	Water	7470A	
480-188016-2	MW-86-24A	Dissolved	Water	7470A	
480-188016-3	MW-99-01	Dissolved	Water	7470A	
480-188016-4	MW-86-28	Dissolved	Water	7470A	
480-188016-5	MW-12	Dissolved	Water	7470A	
480-188016-6	MW-86-1SH	Dissolved	Water	7470A	
480-188016-7	MW-86-X3	Dissolved	Water	7470A	
480-188016-8	MW-99-02	Dissolved	Water	7470A	
480-188016-9	MW-99-04	Dissolved	Water	7470A	
480-188016-10	MW-86-27	Dissolved	Water	7470A	
480-188016-11	DUP-080321	Dissolved	Water	7470A	
MB 480-592507/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-592507/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-188016-1 MS	MW-99-03	Dissolved	Water	7470A	
480-188016-1 MSD	MW-99-03	Dissolved	Water	7470A	

Analysis Batch: 592594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Dissolved	Water	7470A	592507
480-188016-2	MW-86-24A	Dissolved	Water	7470A	592507
480-188016-3	MW-99-01	Dissolved	Water	7470A	592507
480-188016-4	MW-86-28	Dissolved	Water	7470A	592507
480-188016-5	MW-12	Dissolved	Water	7470A	592507
480-188016-6	MW-86-1SH	Dissolved	Water	7470A	592507
480-188016-7	MW-86-X3	Dissolved	Water	7470A	592507
480-188016-8	MW-99-02	Dissolved	Water	7470A	592507
480-188016-9	MW-99-04	Dissolved	Water	7470A	592507
480-188016-10	MW-86-27	Dissolved	Water	7470A	592507
480-188016-11	DUP-080321	Dissolved	Water	7470A	592507
MB 480-592507/1-A	Method Blank	Total/NA	Water	7470A	592507
LCS 480-592507/2-A	Lab Control Sample	Total/NA	Water	7470A	592507
480-188016-1 MS	MW-99-03	Dissolved	Water	7470A	592507
480-188016-1 MSD	MW-99-03	Dissolved	Water	7470A	592507

Analysis Batch: 592610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-1	MW-99-03	Dissolved	Water	6010C	592077
480-188016-2	MW-86-24A	Dissolved	Water	6010C	592077

Metals (Continued)

Analysis Batch: 592610 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-3	MW-99-01	Dissolved	Water	6010C	592077
480-188016-4	MW-86-28	Dissolved	Water	6010C	592077
480-188016-5	MW-12	Dissolved	Water	6010C	592077
480-188016-6	MW-86-1SH	Dissolved	Water	6010C	592077
480-188016-7	MW-86-X3	Dissolved	Water	6010C	592077
480-188016-8	MW-99-02	Dissolved	Water	6010C	592077
MB 480-592077/1-A	Method Blank	Total Recoverable	Water	6010C	592077
LCS 480-592077/2-A	Lab Control Sample	Total Recoverable	Water	6010C	592077
480-188016-1 MS	MW-99-03	Dissolved	Water	6010C	592077
480-188016-1 MSD	MW-99-03	Dissolved	Water	6010C	592077

Prep Batch: 592922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-2	MW-86-24A	Dissolved	Water	3005A	
480-188016-3	MW-99-01	Dissolved	Water	3005A	
480-188016-9	MW-99-04	Dissolved	Water	3005A	
480-188016-10	MW-86-27	Dissolved	Water	3005A	
480-188016-11	DUP-080321	Dissolved	Water	3005A	
MB 480-592922/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-592922/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 593051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-188016-2	MW-86-24A	Dissolved	Water	6010C	592922
480-188016-3	MW-99-01	Dissolved	Water	6010C	592922
480-188016-9	MW-99-04	Dissolved	Water	6010C	592922
480-188016-10	MW-86-27	Dissolved	Water	6010C	592922
480-188016-11	DUP-080321	Dissolved	Water	6010C	592922
MB 480-592922/1-A	Method Blank	Total Recoverable	Water	6010C	592922
LCS 480-592922/2-A	Lab Control Sample	Total Recoverable	Water	6010C	592922

Client Sample ID: MW-99-03
Lab Sample ID: 480-188016-1

Date Collected: 08/02/21 11:51
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 15:56	AXK	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 16:22	AMH	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592610	08/11/21 15:00	AMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 13:26	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:33	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:15	BMB	TAL BUF

Client Sample ID: MW-86-24A
Lab Sample ID: 480-188016-2

Date Collected: 08/02/21 13:40
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 16:20	AXK	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 16:41	AMH	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592610	08/11/21 15:19	AMH	TAL BUF
Dissolved	Prep	3005A			592922	08/16/21 09:18	ADM	TAL BUF
Dissolved	Analysis	6010C		1	593051	08/16/21 20:45	LMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 13:45	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:38	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:20	BMB	TAL BUF

Client Sample ID: MW-99-01
Lab Sample ID: 480-188016-3

Date Collected: 08/02/21 14:39
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 16:43	AXK	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 16:45	AMH	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592610	08/11/21 15:23	AMH	TAL BUF
Dissolved	Prep	3005A			592922	08/16/21 09:18	ADM	TAL BUF
Dissolved	Analysis	6010C		1	593051	08/16/21 20:48	LMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 13:49	LMH	TAL BUF

Client Sample ID: MW-99-01
Lab Sample ID: 480-188016-3

Date Collected: 08/02/21 14:39
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:40	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:24	BMB	TAL BUF

Client Sample ID: MW-86-28
Lab Sample ID: 480-188016-4

Date Collected: 08/02/21 15:46
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 17:06	AXK	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 16:48	AMH	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592610	08/11/21 15:27	AMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 14:04	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:41	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:25	BMB	TAL BUF

Client Sample ID: MW-12
Lab Sample ID: 480-188016-5

Date Collected: 08/03/21 15:56
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 17:30	AXK	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 16:52	AMH	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592610	08/11/21 15:31	AMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 14:08	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:42	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:27	BMB	TAL BUF

Client Sample ID: MW-86-1SH
Lab Sample ID: 480-188016-6

Date Collected: 08/03/21 09:13
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 17:53	AXK	TAL BUF

Client Sample ID: MW-86-1SH
Lab Sample ID: 480-188016-6

Date Collected: 08/03/21 09:13
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			170043	08/10/21 14:14	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	170086	08/11/21 14:00	ND	TAL BUR
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 17:07	AMH	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592610	08/11/21 15:46	AMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 14:12	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:43	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:28	BMB	TAL BUF

Client Sample ID: MW-86-X3
Lab Sample ID: 480-188016-7

Date Collected: 08/03/21 10:41
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 18:16	AXK	TAL BUF
Total/NA	Prep	3535			170043	08/10/21 14:14	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	170086	08/11/21 14:33	ND	TAL BUR
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 17:11	AMH	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592610	08/11/21 15:50	AMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 14:15	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:47	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:29	BMB	TAL BUF

Client Sample ID: MW-99-02
Lab Sample ID: 480-188016-8

Date Collected: 08/03/21 12:00
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 18:39	AXK	TAL BUF
Total/NA	Prep	3535			170043	08/10/21 14:14	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	170086	08/11/21 14:41	ND	TAL BUR
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 17:15	AMH	TAL BUF
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592610	08/11/21 15:53	AMH	TAL BUF

Client Sample ID: MW-99-02
Lab Sample ID: 480-188016-8

Date Collected: 08/03/21 12:00
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 14:19	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:49	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:31	BMB	TAL BUF

Client Sample ID: MW-99-04
Lab Sample ID: 480-188016-9

Date Collected: 08/03/21 13:27
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 19:03	AXK	TAL BUF
Total/NA	Prep	3535			170043	08/10/21 14:14	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	170086	08/11/21 14:49	ND	TAL BUR
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 17:19	AMH	TAL BUF
Dissolved	Prep	3005A			592922	08/16/21 09:18	ADM	TAL BUF
Dissolved	Analysis	6010C		1	593051	08/16/21 20:52	LMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 14:23	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:50	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:32	BMB	TAL BUF

Client Sample ID: MW-86-27
Lab Sample ID: 480-188016-10

Date Collected: 08/03/21 14:56
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 19:26	AXK	TAL BUF
Total/NA	Prep	3535			170043	08/10/21 14:14	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	170086	08/11/21 14:58	ND	TAL BUR
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 17:22	AMH	TAL BUF
Dissolved	Prep	3005A			592922	08/16/21 09:18	ADM	TAL BUF
Dissolved	Analysis	6010C		1	593051	08/16/21 20:56	LMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 14:27	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:51	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:33	BMB	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Job ID: 480-188016-1
Project/Site: SMP C - Haviland Complex

Client Sample ID: DUP-080321
Lab Sample ID: 480-188016-11
Date Collected: 08/03/21 00:00
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592153	08/09/21 19:49	AXK	TAL BUF
Total/NA	Prep	3535			170043	08/10/21 14:14	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	170086	08/11/21 15:06	ND	TAL BUR
Dissolved	Prep	3005A			592077	08/09/21 13:12	KMP	TAL BUF
Dissolved	Analysis	6010C		1	592485	08/10/21 17:26	AMH	TAL BUF
Dissolved	Prep	3005A			592922	08/16/21 09:18	ADM	TAL BUF
Dissolved	Analysis	6010C		1	593051	08/16/21 21:00	LMH	TAL BUF
Total/NA	Prep	3005A			592076	08/09/21 13:12	KMP	TAL BUF
Total/NA	Analysis	6010C		1	592475	08/10/21 14:31	LMH	TAL BUF
Dissolved	Prep	7470A			592507	08/11/21 13:05	BMB	TAL BUF
Dissolved	Analysis	7470A		1	592594	08/11/21 17:53	BMB	TAL BUF
Total/NA	Prep	7470A			592246	08/10/21 13:08	BMB	TAL BUF
Total/NA	Analysis	7470A		1	592428	08/10/21 17:35	BMB	TAL BUF

Client Sample ID: TB-080321
Lab Sample ID: 480-188016-12
Date Collected: 08/03/21 00:00
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	592370	08/11/21 03:39	CRL	TAL BUF

Client Sample ID: FB-080321
Lab Sample ID: 480-188016-13
Date Collected: 08/03/21 16:40
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			170043	08/10/21 14:14	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	170086	08/11/21 15:14	ND	TAL BUR

Client Sample ID: EB-080321
Lab Sample ID: 480-188016-14
Date Collected: 08/03/21 16:45
Matrix: Water
Date Received: 08/05/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			170043	08/10/21 14:14	EK	TAL BUR
Total/NA	Analysis	537 (modified)		1	170086	08/11/21 15:22	ND	TAL BUR

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: New York State D.E.C. Job ID: 480-188016-1
Project/Site: SMP C - Haviland Complex

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Laboratory: Eurofins TestAmerica, Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

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 #
MW-99-03	480-188016-1	103	103	99	94
MW-86-24A	480-188016-2	100	102	98	94
MW-99-01	480-188016-3	103	106	100	94
MW-86-28	480-188016-4	103	105	97	95
MW-12	480-188016-5	101	103	97	94
MW-86-1SH	480-188016-6	102	109	97	92
MW-86-X3	480-188016-7	101	101	99	92
MW-99-02	480-188016-8	104	108	100	92
MW-99-04	480-188016-9	102	106	99	94
MW-86-27	480-188016-10	100	106	98	93
DUP-080321	480-188016-11	108	106	101	95
TB-080321	480-188016-12	98	101	99	98
	MB 480-592153/7	103	102	98	92
	MB 480-592370/8	102	102	98	100
	LCS 480-592153/5	102	105	99	96
	LCS 480-592370/6	100	102	99	96
MW-99-03 MS	480-188016-1 MS	105	105	103	95
MW-99-03 MSD	480-188016-1 MSD	97	98	99	94

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-123
DCA = 1,2-Dichloroethane-d4 (Surr)	77-120
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2041.D

Lab ID: LCS 480-592153/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.6	102	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.3	105	76-120	
1,1,2-Trichloroethane	25.0	23.8	95	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	24.2	97	61-148	
1,1-Dichloroethane	25.0	24.4	98	77-120	
1,1-Dichloroethene	25.0	22.5	90	66-127	
1,2,4-Trichlorobenzene	25.0	22.5	90	79-122	
1,2-Dibromo-3-Chloropropane	25.0	39.3	157	56-134	*+
1,2-Dichlorobenzene	25.0	22.6	91	80-124	
1,2-Dichloroethane	25.0	23.5	94	75-120	
1,2-Dichloropropane	25.0	24.2	97	76-120	
1,3-Dichlorobenzene	25.0	23.0	92	77-120	
1,4-Dichlorobenzene	25.0	23.6	94	80-120	
2-Butanone (MEK)	125	146	117	57-140	
2-Hexanone	125	151	121	65-127	
4-Methyl-2-pentanone (MIBK)	125	135	108	71-125	
Acetone	125	137	109	56-142	
Benzene	25.0	24.2	97	71-124	
Bromodichloromethane	25.0	28.4	114	80-122	
Bromoform	25.0	33.9	136	61-132	*+
Bromomethane	25.0	22.1	88	55-144	
Carbon disulfide	25.0	21.7	87	59-134	
Carbon tetrachloride	25.0	30.9	124	72-134	
Chlorobenzene	25.0	23.2	93	80-120	
Dibromochloromethane	25.0	34.3	137	75-125	*+
Chloroethane	25.0	23.5	94	69-136	
Chloroform	25.0	23.2	93	73-127	
Chloromethane	25.0	21.5	86	68-124	
cis-1,2-Dichloroethene	25.0	23.2	93	74-124	
cis-1,3-Dichloropropene	25.0	26.0	104	74-124	
Cyclohexane	25.0	24.7	99	59-135	
Dichlorodifluoromethane	25.0	22.8	91	59-135	
Ethylbenzene	25.0	23.6	94	77-123	
1,2-Dibromoethane	25.0	25.8	103	77-120	
Isopropylbenzene	25.0	24.2	97	77-122	
Methyl acetate	50.0	52.1	104	74-133	
Methyl tert-butyl ether	25.0	22.4	89	77-120	
Methylcyclohexane	25.0	25.4	102	68-134	
Methylene Chloride	25.0	22.9	92	75-124	
Styrene	25.0	24.4	98	80-120	
Tetrachloroethene	25.0	23.9	95	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2041.D

Lab ID: LCS 480-592153/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	23.2	93	80-122	
trans-1,2-Dichloroethene	25.0	23.5	94	73-127	
trans-1,3-Dichloropropene	25.0	27.2	109	80-120	
Trichloroethene	25.0	24.2	97	74-123	
Trichlorofluoromethane	25.0	24.3	97	62-150	
Vinyl chloride	25.0	22.4	90	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2121.D

Lab ID: LCS 480-592370/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	25.7	103	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.9	104	76-120	
1,1,2-Trichloroethane	25.0	24.9	100	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.9	96	61-148	
1,1-Dichloroethane	25.0	24.5	98	77-120	
1,1-Dichloroethene	25.0	23.6	94	66-127	
1,2,4-Trichlorobenzene	25.0	22.9	92	79-122	
1,2-Dibromo-3-Chloropropane	25.0	38.4	153	56-134	*+
1,2-Dichlorobenzene	25.0	23.0	92	80-124	
1,2-Dichloroethane	25.0	23.0	92	75-120	
1,2-Dichloropropane	25.0	24.7	99	76-120	
1,3-Dichlorobenzene	25.0	23.3	93	77-120	
1,4-Dichlorobenzene	25.0	23.8	95	80-120	
2-Butanone (MEK)	125	141	112	57-140	
2-Hexanone	125	160	128	65-127	*+
4-Methyl-2-pentanone (MIBK)	125	139	111	71-125	
Acetone	125	126	101	56-142	
Benzene	25.0	23.7	95	71-124	
Bromodichloromethane	25.0	28.4	114	80-122	
Bromoform	25.0	31.2	125	61-132	
Bromomethane	25.0	24.7	99	55-144	
Carbon disulfide	25.0	24.8	99	59-134	
Carbon tetrachloride	25.0	29.6	118	72-134	
Chlorobenzene	25.0	23.5	94	80-120	
Dibromochloromethane	25.0	34.0	136	75-125	*+
Chloroethane	25.0	25.8	103	69-136	
Chloroform	25.0	23.1	92	73-127	
Chloromethane	25.0	24.2	97	68-124	
cis-1,2-Dichloroethene	25.0	22.4	90	74-124	
cis-1,3-Dichloropropene	25.0	24.7	99	74-124	
Cyclohexane	25.0	25.3	101	59-135	
Dichlorodifluoromethane	25.0	29.0	116	59-135	
Ethylbenzene	25.0	23.7	95	77-123	
1,2-Dibromoethane	25.0	26.3	105	77-120	
Isopropylbenzene	25.0	23.9	96	77-122	
Methyl acetate	50.0	50.5	101	74-133	
Methyl tert-butyl ether	25.0	22.9	92	77-120	
Methylcyclohexane	25.0	24.6	98	68-134	
Methylene Chloride	25.0	24.7	99	75-124	
Styrene	25.0	24.3	97	80-120	
Tetrachloroethene	25.0	23.1	92	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2121.D

Lab ID: LCS 480-592370/6 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	23.9	95	80-122	
trans-1,2-Dichloroethene	25.0	23.2	93	73-127	
trans-1,3-Dichloropropene	25.0	26.3	105	80-120	
Trichloroethene	25.0	23.9	96	74-123	
Trichlorofluoromethane	25.0	27.6	110	62-150	
Vinyl chloride	25.0	25.7	103	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2065.D

Lab ID: 480-188016-1 MS Client ID: MW-99-03 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	ND	27.2	109	73-126	
1,1,2,2-Tetrachloroethane	25.0	ND	26.0	104	76-120	
1,1,2-Trichloroethane	25.0	ND	24.2	97	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	ND	24.4	97	61-148	
1,1-Dichloroethane	25.0	ND	26.8	107	77-120	
1,1-Dichloroethene	25.0	ND	24.9	100	66-127	
1,2,4-Trichlorobenzene	25.0	ND	23.0	92	79-122	
1,2-Dibromo-3-Chloropropane	25.0	ND	36.3	145	56-134	F1
1,2-Dichlorobenzene	25.0	ND	23.9	96	80-124	
1,2-Dichloroethane	25.0	ND	23.8	95	75-120	
1,2-Dichloropropane	25.0	ND	24.1	97	76-120	
1,3-Dichlorobenzene	25.0	ND	24.0	96	77-120	
1,4-Dichlorobenzene	25.0	ND	24.3	97	78-124	
2-Butanone (MEK)	125	ND	125	100	57-140	
2-Hexanone	125	ND	132	106	65-127	
4-Methyl-2-pentanone (MIBK)	125	ND	133	107	71-125	
Acetone	125	ND	116	93	56-142	
Benzene	25.0	ND	25.0	100	71-124	
Bromodichloromethane	25.0	ND	26.6	106	80-122	
Bromoform	25.0	ND	28.3	113	61-132	
Bromomethane	25.0	ND	20.6	82	55-144	
Carbon disulfide	25.0	ND	23.0	92	59-134	
Carbon tetrachloride	25.0	ND	31.9	128	72-134	
Chlorobenzene	25.0	ND	23.7	95	80-120	
Dibromochloromethane	25.0	ND	31.2	125	75-125	
Chloroethane	25.0	ND	21.8	87	69-136	
Chloroform	25.0	ND	24.9	100	73-127	
Chloromethane	25.0	ND	20.4	82	68-124	
cis-1,2-Dichloroethene	25.0	ND	25.5	102	74-124	
cis-1,3-Dichloropropene	25.0	ND	22.5	90	74-124	
Cyclohexane	25.0	ND	26.2	105	59-135	
Dichlorodifluoromethane	25.0	ND	20.3	81	59-135	
Ethylbenzene	25.0	ND	25.2	101	77-123	
1,2-Dibromoethane	25.0	ND	25.0	100	77-120	
Isopropylbenzene	25.0	ND	26.8	107	77-122	
Methyl acetate	50.0	ND	49.3	99	74-133	
Methyl tert-butyl ether	25.0	ND	23.0	92	77-120	
Methylcyclohexane	25.0	ND	26.4	105	68-134	
Methylene Chloride	25.0	ND	24.7	99	75-124	
Styrene	25.0	ND	24.6	98	80-120	
Tetrachloroethene	25.0	ND	25.2	101	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2065.D

Lab ID: 480-188016-1 MS Client ID: MW-99-03 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	25.0	ND	24.7	99	80-122	
trans-1,2-Dichloroethene	25.0	ND	26.0	104	73-127	
trans-1,3-Dichloropropene	25.0	ND	24.7	99	80-120	
Trichloroethene	25.0	ND	24.6	98	74-123	
Trichlorofluoromethane	25.0	ND	22.0	88	62-150	
Vinyl chloride	25.0	ND	20.8	83	65-133	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2066.D

Lab ID: 480-188016-1 MSD Client ID: MW-99-03 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	27.2	109	0	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.3	105	1	15	76-120	
1,1,2-Trichloroethane	25.0	24.3	97	1	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.5	94	4	20	61-148	
1,1-Dichloroethane	25.0	25.7	103	4	20	77-120	
1,1-Dichloroethene	25.0	24.5	98	2	16	66-127	
1,2,4-Trichlorobenzene	25.0	22.9	92	0	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	35.3	141	3	15	56-134	F1
1,2-Dichlorobenzene	25.0	23.9	96	0	20	80-124	
1,2-Dichloroethane	25.0	23.6	94	1	20	75-120	
1,2-Dichloropropane	25.0	24.8	99	3	20	76-120	
1,3-Dichlorobenzene	25.0	24.3	97	1	20	77-120	
1,4-Dichlorobenzene	25.0	24.9	100	2	20	78-124	
2-Butanone (MEK)	125	132	106	5	20	57-140	
2-Hexanone	125	141	112	6	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	131	104	2	35	71-125	
Acetone	125	113	90	2	15	56-142	
Benzene	25.0	25.1	100	1	13	71-124	
Bromodichloromethane	25.0	27.5	110	3	15	80-122	
Bromoform	25.0	29.9	120	6	15	61-132	
Bromomethane	25.0	24.5	98	17	15	55-144	F2
Carbon disulfide	25.0	22.8	91	1	15	59-134	
Carbon tetrachloride	25.0	32.3	129	1	15	72-134	
Chlorobenzene	25.0	24.3	97	3	25	80-120	
Dibromochloromethane	25.0	33.0	132	6	15	75-125	F1
Chloroethane	25.0	25.9	104	17	15	69-136	F2
Chloroform	25.0	24.2	97	3	20	73-127	
Chloromethane	25.0	23.5	94	14	15	68-124	
cis-1,2-Dichloroethene	25.0	23.9	96	6	15	74-124	
cis-1,3-Dichloropropene	25.0	24.8	99	10	15	74-124	
Cyclohexane	25.0	26.1	105	0	20	59-135	
Dichlorodifluoromethane	25.0	24.6	98	19	20	59-135	
Ethylbenzene	25.0	25.2	101	0	15	77-123	
1,2-Dibromoethane	25.0	26.5	106	6	15	77-120	
Isopropylbenzene	25.0	26.7	107	0	20	77-122	
Methyl acetate	50.0	46.9	94	5	20	74-133	
Methyl tert-butyl ether	25.0	22.0	88	4	37	77-120	
Methylcyclohexane	25.0	25.5	102	3	20	68-134	
Methylene Chloride	25.0	23.3	93	6	15	75-124	
Styrene	25.0	25.3	101	3	20	80-120	
Tetrachloroethene	25.0	25.0	100	1	20	74-122	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2066.D

Lab ID: 480-188016-1 MSD Client ID: MW-99-03 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Toluene	25.0	25.0	100	1	15	80-122	
trans-1,2-Dichloroethene	25.0	25.6	102	2	20	73-127	
trans-1,3-Dichloropropene	25.0	26.4	106	7	15	80-120	
Trichloroethene	25.0	25.3	101	3	16	74-123	
Trichlorofluoromethane	25.0	27.2	109	21	20	62-150	F2
Vinyl chloride	25.0	24.6	98	17	15	65-133	F2

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab File ID: S2043.D Lab Sample ID: MB 480-592153/7

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

Instrument ID: HP5973S Date Analyzed: 08/09/2021 12:03

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 480-592153/5	S2041.D	08/09/2021 11:17
MW-99-03	480-188016-1	S2052.D	08/09/2021 15:56
MW-86-24A	480-188016-2	S2053.D	08/09/2021 16:20
MW-99-01	480-188016-3	S2054.D	08/09/2021 16:43
MW-86-28	480-188016-4	S2055.D	08/09/2021 17:06
MW-12	480-188016-5	S2056.D	08/09/2021 17:30
MW-86-1SH	480-188016-6	S2057.D	08/09/2021 17:53
MW-86-X3	480-188016-7	S2058.D	08/09/2021 18:16
MW-99-02	480-188016-8	S2059.D	08/09/2021 18:39
MW-99-04	480-188016-9	S2060.D	08/09/2021 19:03
MW-86-27	480-188016-10	S2061.D	08/09/2021 19:26
DUP-080321	480-188016-11	S2062.D	08/09/2021 19:49
MW-99-03 MS	480-188016-1 MS	S2065.D	08/09/2021 20:58
MW-99-03 MSD	480-188016-1 MSD	S2066.D	08/09/2021 21:21

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab File ID: S2123.D Lab Sample ID: MB 480-592370/8

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

Instrument ID: HP5973S Date Analyzed: 08/11/2021 01:21

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 480-592370/6	S2121.D	08/11/2021 00:35
TB-080321	480-188016-12	S2129.D	08/11/2021 03:39

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab File ID: S1600.D BFB Injection Date: 07/28/2021

Instrument ID: HP5973S BFB Injection Time: 16:36

Analysis Batch No.: 590807

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.6	
75	30.0 - 60.0 % of mass 95	48.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	85.7	
175	5.0 - 9.0 % of mass 174	6.4	(7.5) 1
176	95.0 - 101.0 % of mass 174	83.4	(97.3) 1
177	5.0 - 9.0 % of mass 176	5.4	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-590807/6	S1603.D	07/28/2021	17:50
	IC 480-590807/7	S1604.D	07/28/2021	18:13
	IC 480-590807/8	S1605.D	07/28/2021	18:37
	IC 480-590807/9	S1606.D	07/28/2021	19:00
	IC 480-590807/10	S1607.D	07/28/2021	19:23
	ICIS 480-590807/11	S1608.D	07/28/2021	19:46
	IC 480-590807/12	S1609.D	07/28/2021	20:09
	IC 480-590807/13	S1610.D	07/28/2021	20:32
	ICV 480-590807/27	S1624.D	07/29/2021	1:57

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab File ID: S2038.D BFB Injection Date: 08/09/2021

Instrument ID: HP5973S BFB Injection Time: 09:33

Analysis Batch No.: 592153

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.2	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	81.6	
175	5.0 - 9.0 % of mass 174	6.3	(7.7) 1
176	95.0 - 101.0 % of mass 174	78.1	(95.7) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-592153/3	S2039.D	08/09/2021	9:59
	LCS 480-592153/5	S2041.D	08/09/2021	11:17
	MB 480-592153/7	S2043.D	08/09/2021	12:03
MW-99-03	480-188016-1	S2052.D	08/09/2021	15:56
MW-86-24A	480-188016-2	S2053.D	08/09/2021	16:20
MW-99-01	480-188016-3	S2054.D	08/09/2021	16:43
MW-86-28	480-188016-4	S2055.D	08/09/2021	17:06
MW-12	480-188016-5	S2056.D	08/09/2021	17:30
MW-86-1SH	480-188016-6	S2057.D	08/09/2021	17:53
MW-86-X3	480-188016-7	S2058.D	08/09/2021	18:16
MW-99-02	480-188016-8	S2059.D	08/09/2021	18:39
MW-99-04	480-188016-9	S2060.D	08/09/2021	19:03
MW-86-27	480-188016-10	S2061.D	08/09/2021	19:26
DUP-080321	480-188016-11	S2062.D	08/09/2021	19:49
MW-99-03 MS	480-188016-1 MS	S2065.D	08/09/2021	20:58
MW-99-03 MSD	480-188016-1 MSD	S2066.D	08/09/2021	21:21

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab File ID: S2118.D BFB Injection Date: 08/10/2021

Instrument ID: HP5973S BFB Injection Time: 23:26

Analysis Batch No.: 592370

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.8	
75	30.0 - 60.0 % of mass 95	47.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	Greater than 50% of mass 95	84.4	
175	5.0 - 9.0 % of mass 174	6.3	(7.5) 1
176	95.0 - 101.0 % of mass 174	83.0	(98.3) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.1) 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 480-592370/4	S2119.D	08/10/2021	23:49
	LCS 480-592370/6	S2121.D	08/11/2021	0:35
	MB 480-592370/8	S2123.D	08/11/2021	1:21
TB-080321	480-188016-12	S2129.D	08/11/2021	3:39

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Sample No.: ICIS 480-590807/11 Date Analyzed: 07/28/2021 19:46

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): S1608.D Heated Purge: (Y/N) N

Calibration ID: 42180

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		144335	5.00	287378	7.96	324300	10.40
UPPER LIMIT		288670	5.50	574756	8.46	648600	10.90
LOWER LIMIT		72168	4.50	143689	7.46	162150	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-590807/27		145844	5.00	281991	7.96	319544	10.40
CCVIS 480-592153/3		142199	5.00	290584	7.97	327402	10.40
CCVIS 480-592370/4		124657	5.00	249719	7.96	274831	10.40

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 8260C

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Sample No.: CCVIS 480-592153/3 Date Analyzed: 08/09/2021 09:59

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): S2039.D Heated Purge: (Y/N) N

Calibration ID: 42182

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		142199	5.00	290584	7.97	327402	10.40
UPPER LIMIT		284398	5.50	581168	8.47	654804	10.90
LOWER LIMIT		71100	4.50	145292	7.47	163701	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-592153/5		144226	5.00	292185	7.96	315123	10.40
MB 480-592153/7		137124	5.00	267840	7.96	285529	10.40
480-188016-1	MW-99-03	140083	5.00	279077	7.97	304772	10.40
480-188016-2	MW-86-24A	142917	5.00	280161	7.96	309129	10.40
480-188016-3	MW-99-01	139522	5.00	277700	7.96	301022	10.40
480-188016-4	MW-86-28	140848	5.00	273564	7.97	292662	10.40
480-188016-5	MW-12	143035	5.00	282774	7.96	305936	10.40
480-188016-6	MW-86-1SH	138311	5.00	282098	7.96	303902	10.40
480-188016-7	MW-86-X3	141297	5.00	272984	7.96	283351	10.40
480-188016-8	MW-99-02	137403	5.00	267375	7.96	282740	10.40
480-188016-9	MW-99-04	141609	5.00	276011	7.96	300121	10.40
480-188016-10	MW-86-27	139384	5.00	280697	7.96	311171	10.40
480-188016-11	DUP-080321	134161	5.00	256773	7.96	273155	10.40
480-188016-1 MS	MW-99-03 MS	135136	5.00	252926	7.96	273044	10.40
480-188016-1 MSD	MW-99-03 MSD	145692	5.00	287133	7.96	307247	10.40

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 8260C

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Sample No.: CCVIS 480-592370/4 Date Analyzed: 08/10/2021 23:49

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): S2119.D Heated Purge: (Y/N) N

Calibration ID: 42182

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		124657	5.00	249719	7.96	274831	10.40
UPPER LIMIT		249314	5.50	499438	8.46	549662	10.90
LOWER LIMIT		62329	4.50	124860	7.46	137416	9.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-592370/6		126016	5.00	250457	7.96	274894	10.40
MB 480-592370/8		123783	5.00	236681	7.97	276942	10.40
480-188016-12	TB-080321	125617	5.00	242941	7.97	278960	10.40

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-03 Lab Sample ID: 480-188016-1

Matrix: Water Lab File ID: S2052.D

Analysis Method: 8260C Date Collected: 08/02/2021 11:51

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 15:56

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND	*+	1.0	0.26
74-83-9	Bromomethane	ND	F2	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
124-48-1	Dibromochloromethane	ND	*+ F1	1.0	0.32
75-00-3	Chloroethane	ND	F2	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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-03 Lab Sample ID: 480-188016-1

Matrix: Water Lab File ID: S2052.D

Analysis Method: 8260C Date Collected: 08/02/2021 11:51

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 15:56

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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	F2	1.0	0.88
75-01-4	Vinyl chloride	ND	F2	1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2052.D
Lims ID: 480-188016-D-1
Client ID: MW-99-03
Sample Type: Client
Inject. Date: 09-Aug-2021 15:56:30 ALS Bottle#: 15 Worklist Smp#: 65
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-1
Misc. Info.: 480-0100304-065
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:08:28 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:08:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	140083	25.0	
* 2 Chlorobenzene-d5	82	7.968	7.968	0.000	87	279077	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.396	10.395	0.001	95	304772	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.434	4.433	0.001	58	207388	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	93	124732	25.7	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	94	726084	24.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	89	227596	23.5	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43	2.420	2.420	0.006	71	4552	0.9811	a
26 Carbon disulfide	76		2.499				ND	U
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166		7.080				ND	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- U - Marked Undetected
- a - User Assigned ID

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

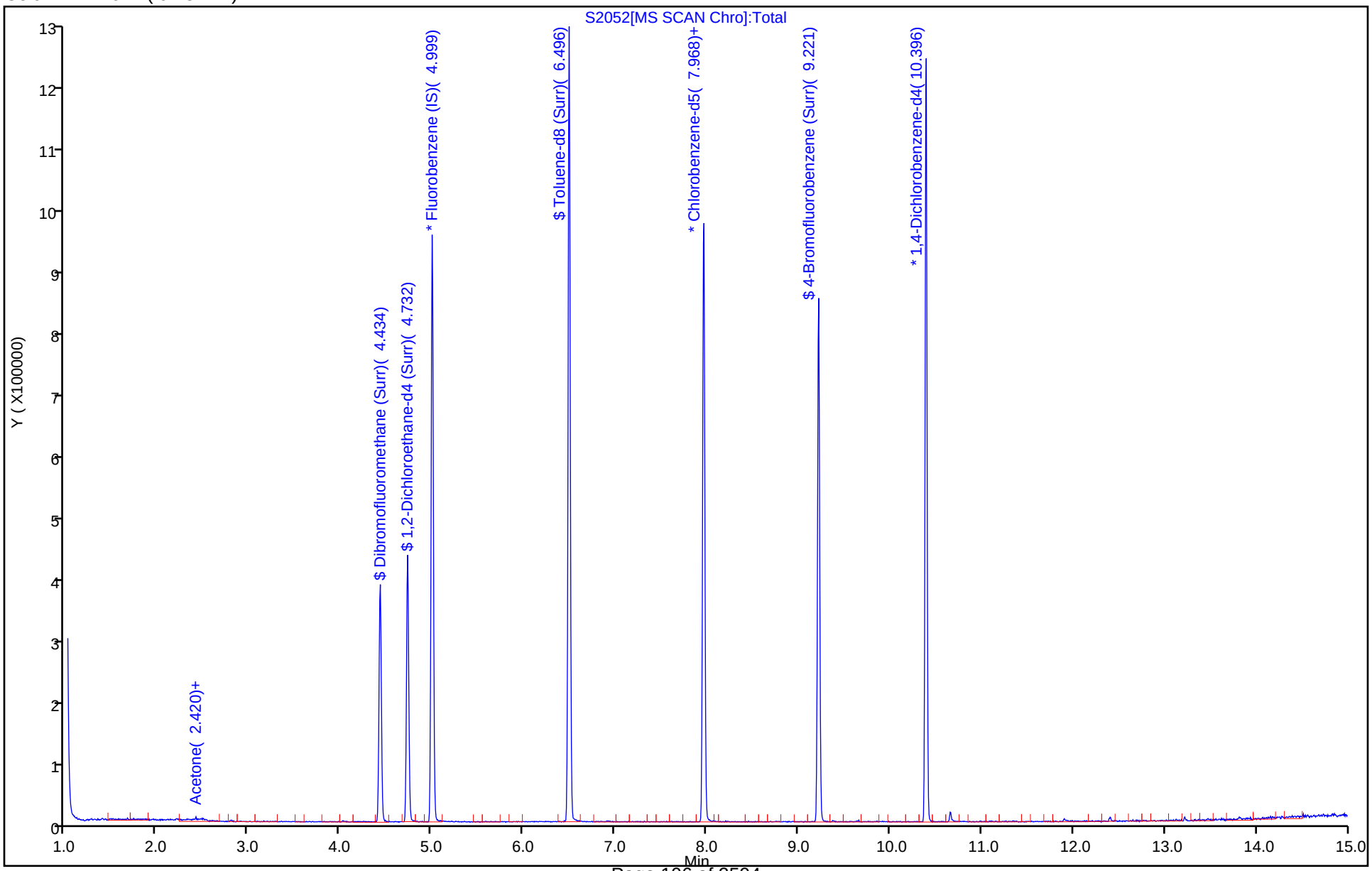
Report Date: 10-Aug-2021 11:08:28 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2052.D

Injection Date:	09-Aug-2021 15:56:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-1	Lab Sample ID:	480-188016-1	Worklist Smp#:	65
Client ID:	MW-99-03				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

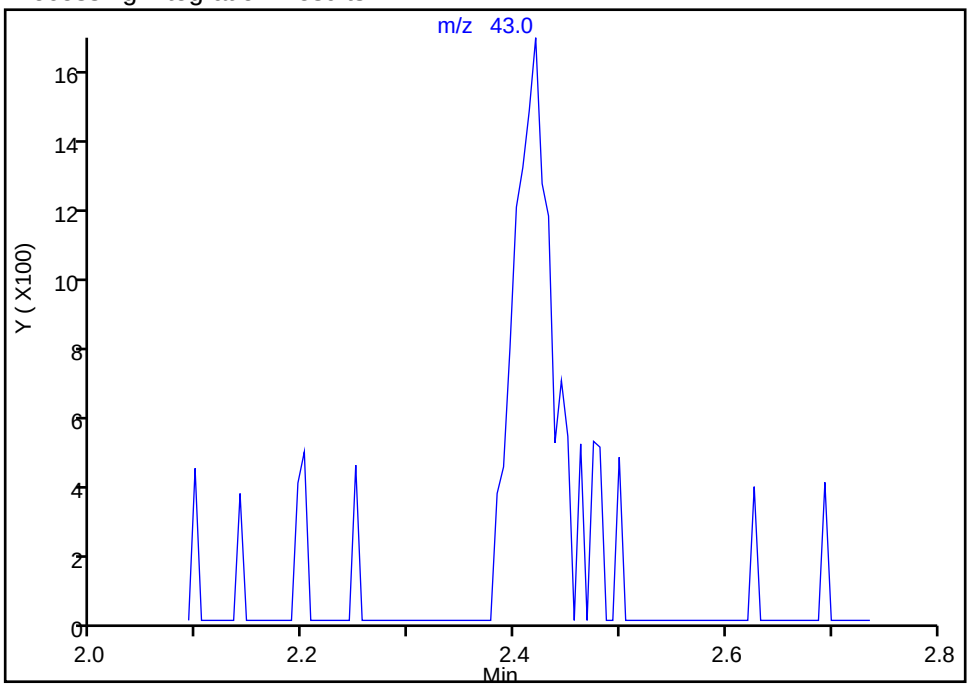
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Injection Date:	09-Aug-2021 15:56:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-1	Lab Sample ID:	480-188016-1		
Client ID:	MW-99-03				
Operator ID:	LH/AK/AG	ALS Bottle#:	15	Worklist Smp#:	65
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

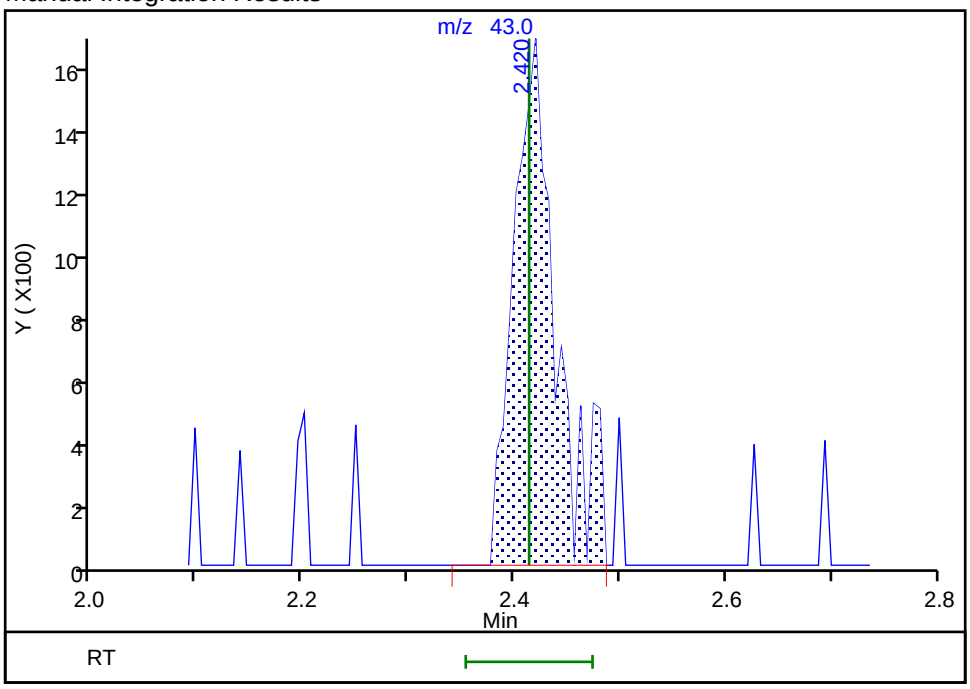
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.42
Area: 4552
Amount: 0.981109
Amount Units: ug/L



Reviewer: kiwana, 10-Aug-2021 11:08:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

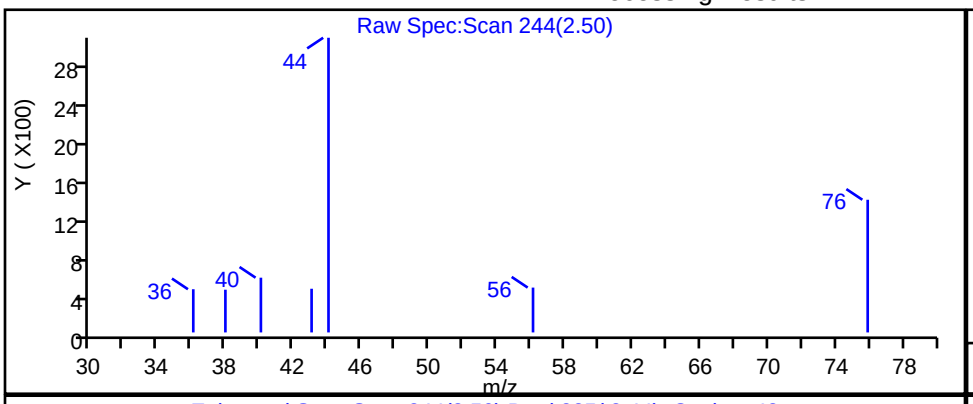
User Disabled Compound Report

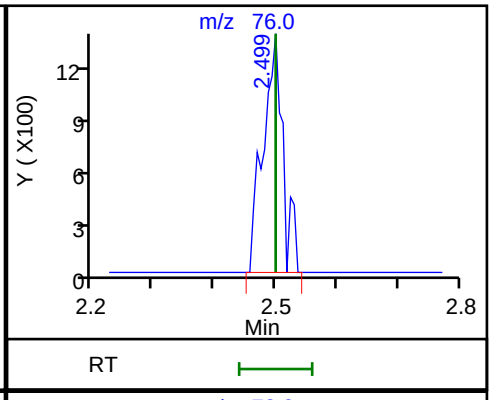
Eurofins TestAmerica, Buffalo

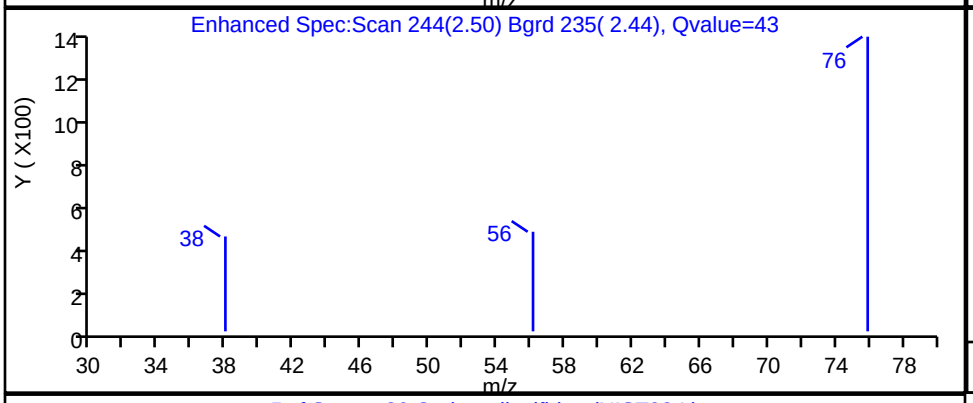
Data File:	\\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2052.D				
Injection Date:	09-Aug-2021 15:56:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-1	Lab Sample ID:	480-188016-1		
Client ID:	MW-99-03				
Operator ID:	LH/AK/AG	ALS Bottle#:	15	Worklist Smp#:	65
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

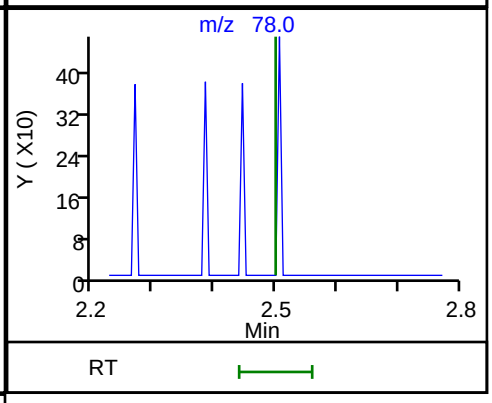
26 Carbon disulfide, CAS: 75-15-0

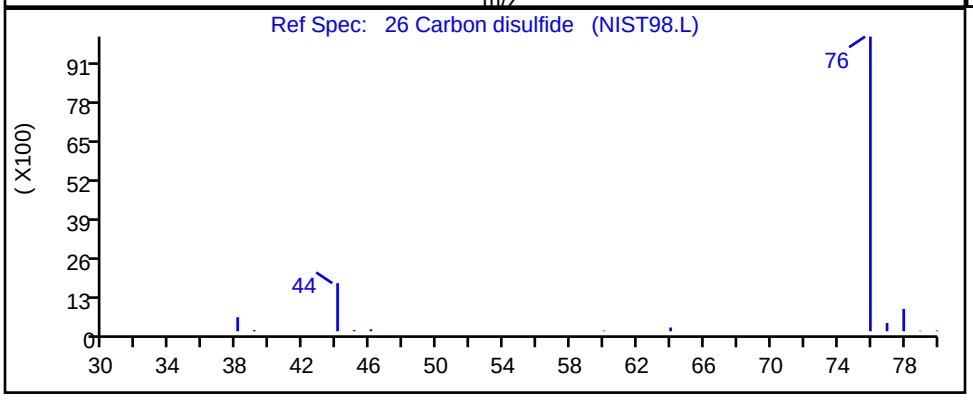
Processing Results











RT	Mass	Response	Amount
2.50	76.00	3117	0.114344
2.50	78.00	0	

Reviewer: kiwana, 10-Aug-2021 11:08:14

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.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-24A Lab Sample ID: 480-188016-2

Matrix: Water Lab File ID: S2053.D

Analysis Method: 8260C Date Collected: 08/02/2021 13:40

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 16:20

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-24A Lab Sample ID: 480-188016-2

Matrix: Water Lab File ID: S2053.D

Analysis Method: 8260C Date Collected: 08/02/2021 13:40

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 16:20

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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	4.0		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
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2053.D
Lims ID: 480-188016-D-2
Client ID: MW-86-24A
Sample Type: Client
Inject. Date: 09-Aug-2021 16:20:30 ALS Bottle#: 16 Worklist Smp#: 66
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-2
Misc. Info.: 480-0100304-066
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:08:28 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:09:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	142917	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	86	280161	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	309129	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.433	-0.006	58	205759	24.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	92	126607	25.6	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	93	722795	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	229667	23.6	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95	5.334	5.334	0.000	83	11872	1.26	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166	7.080	7.080	0.000	90	39992	3.98	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

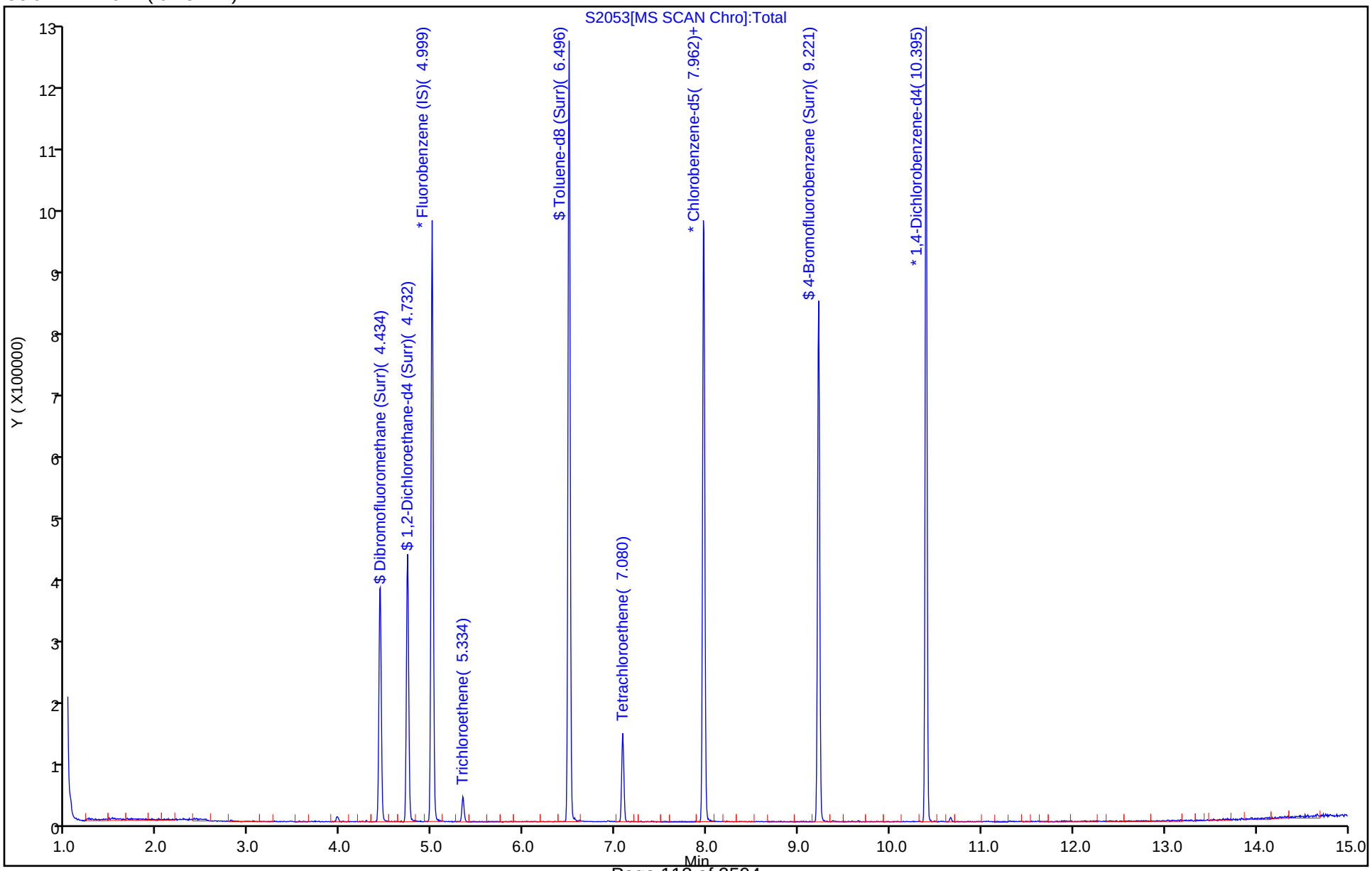
Report Date: 10-Aug-2021 11:09:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2053.D

Injection Date:	09-Aug-2021 16:20:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-2	Lab Sample ID:	480-188016-2	Worklist Smp#:	66
Client ID:	MW-86-24A				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



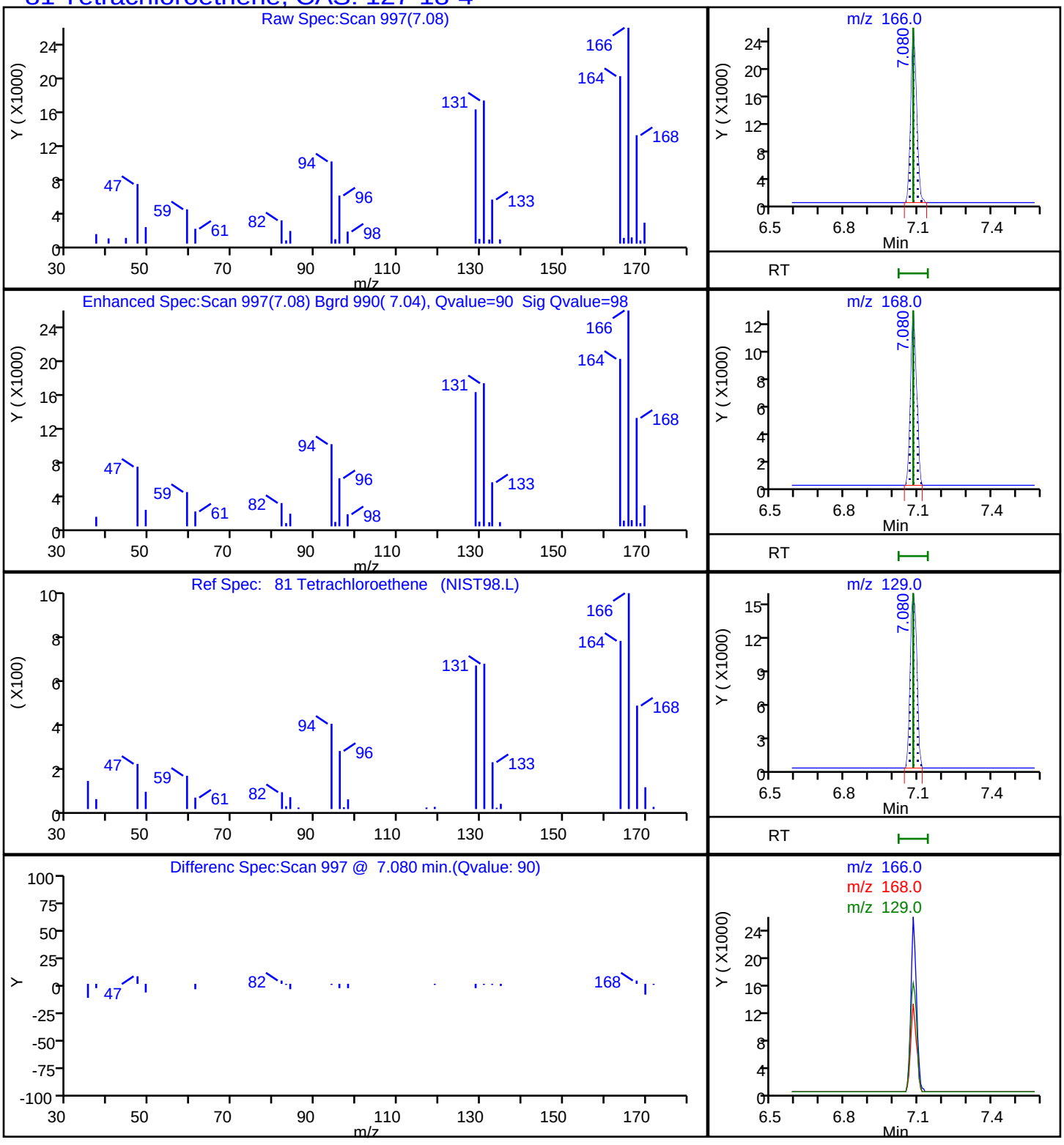
Report Date: 10-Aug-2021 11:09:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2053.D

Injection Date:	09-Aug-2021 16:20:30	Instrument ID:	HP5973S
Lims ID:	480-188016-D-2	Lab Sample ID:	480-188016-2
Client ID:	MW-86-24A		
Operator ID:	LH/AK/AG	ALS Bottle#:	16 Worklist Smp#: 66
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



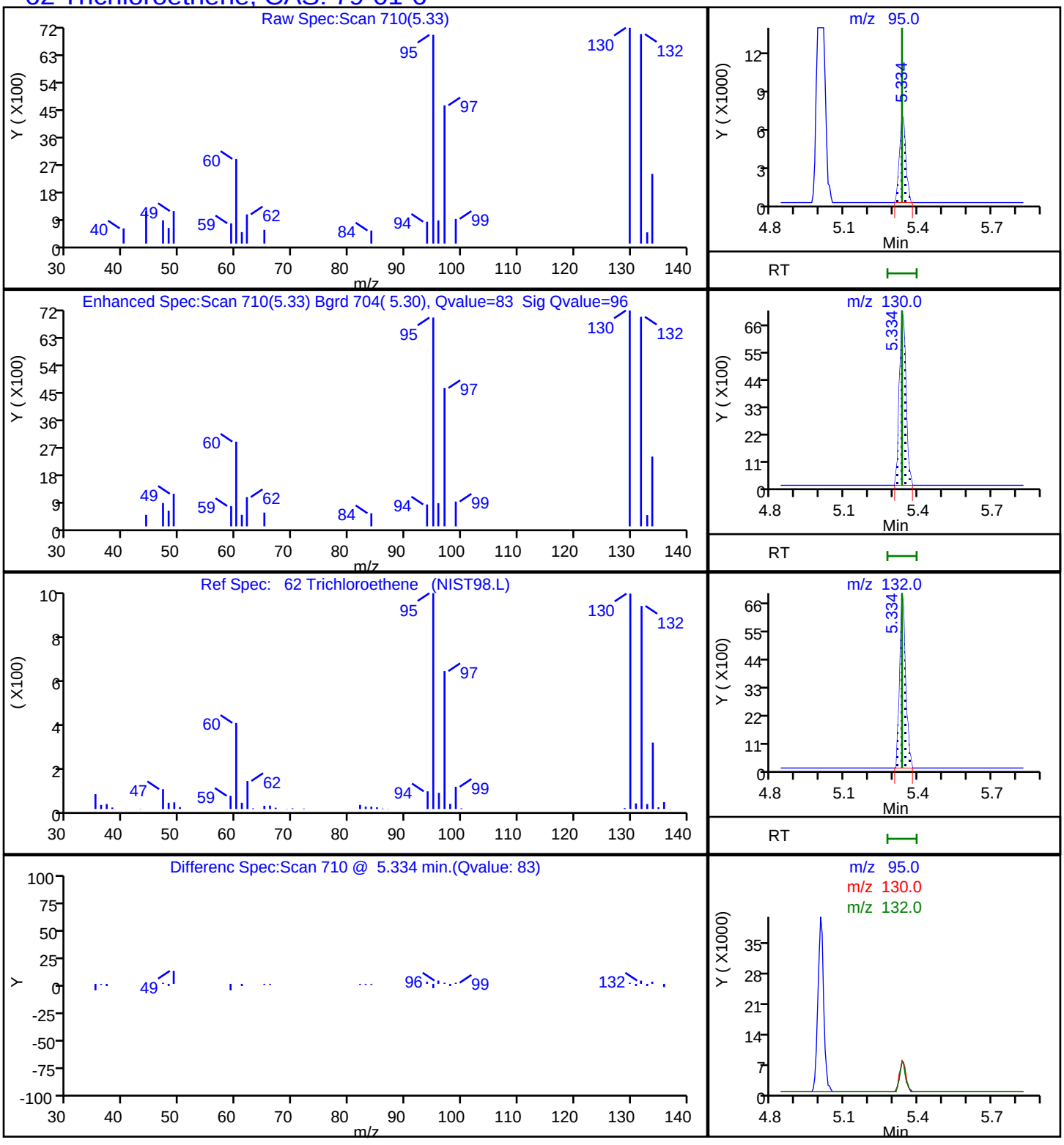
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2053.D

Injection Date:	09-Aug-2021 16:20:30	Instrument ID:	HP5973S
Lims ID:	480-188016-D-2	Lab Sample ID:	480-188016-2
Client ID:	MW-86-24A		
Operator ID:	LH/AK/AG	ALS Bottle#:	16 Worklist Smp#: 66
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-01 Lab Sample ID: 480-188016-3

Matrix: Water Lab File ID: S2054.D

Analysis Method: 8260C Date Collected: 08/02/2021 14:39

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 16:43

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
95-50-1	1,2-Dichlorobenzene	1.8		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	2.2		1.0	0.78
106-46-7	1,4-Dichlorobenzene	2.1		1.0	0.84
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
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	4.7		1.0	0.75
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-01 Lab Sample ID: 480-188016-3

Matrix: Water Lab File ID: S2054.D

Analysis Method: 8260C Date Collected: 08/02/2021 14:39

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 16:43

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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	0.76	J	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
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2054.D
Lims ID: 480-188016-D-3
Client ID: MW-99-01
Sample Type: Client
Inject. Date: 09-Aug-2021 16:43:30 ALS Bottle#: 17 Worklist Smp#: 67
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-3
Misc. Info.: 480-0100304-067
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:10:09 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:10:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	99	139522	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	85	277700	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	301022	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.433	0.000	58	206998	25.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.731	4.732	-0.001	92	128011	26.5	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	94	728686	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	89	226589	23.5	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43	2.426	2.426	0.012	73	3685	0.7974	a
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	7
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166	7.080	7.080	0.000	79	7599	0.7630	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112	7.998	7.993	0.006	75	127279	4.73	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146	10.328	10.329	0.000	95	51523	2.21	
113 1,4-Dichlorobenzene	146	10.414	10.420	-0.006	75	48002	2.07	
116 1,2-Dichlorobenzene	146	10.772	10.773	-0.001	89	43827	1.85	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

a - User Assigned ID

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

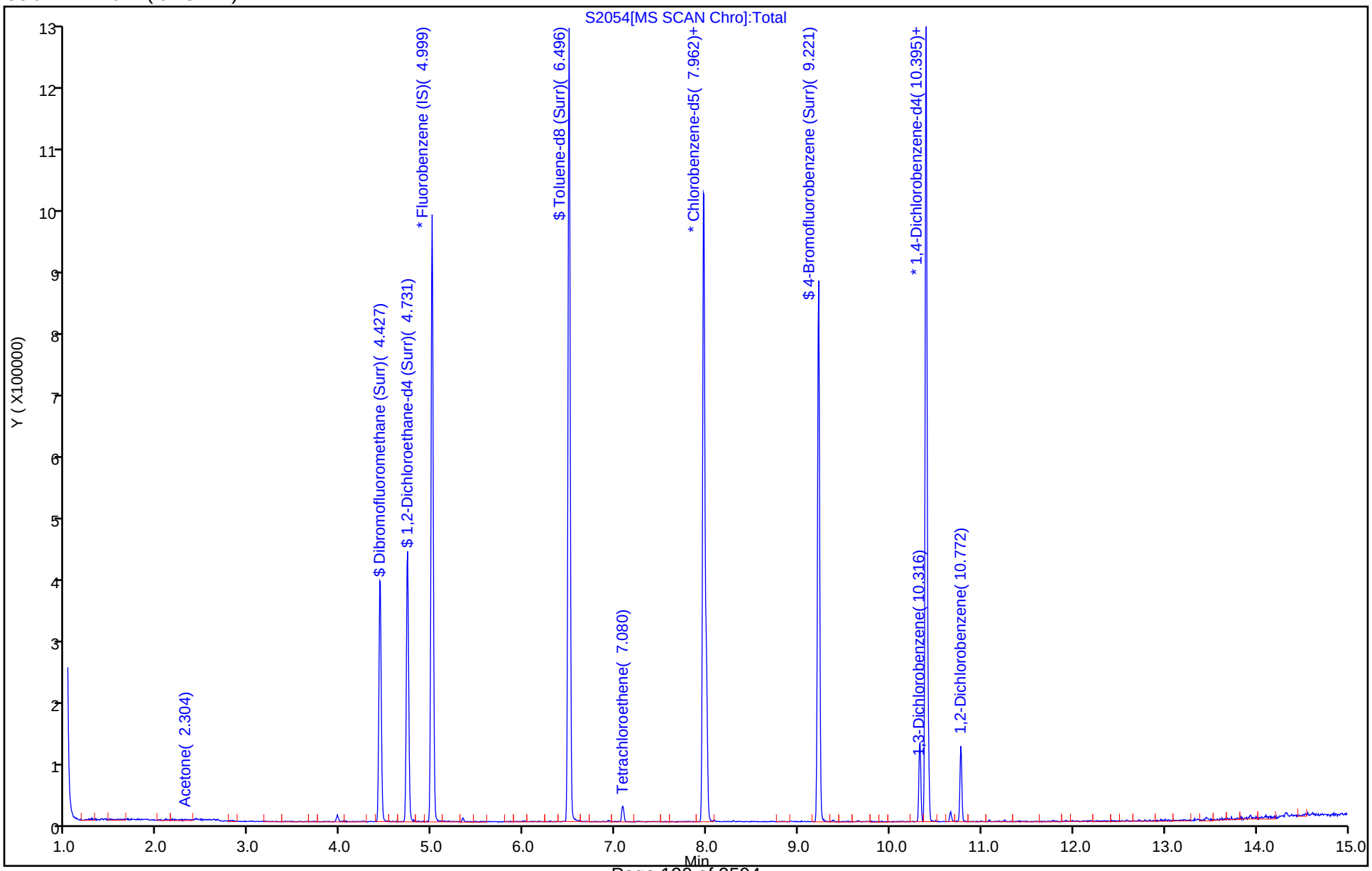
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2054.D

Injection Date:	09-Aug-2021 16:43:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-3	Lab Sample ID:	480-188016-3	Worklist Smp#:	67
Client ID:	MW-99-01				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



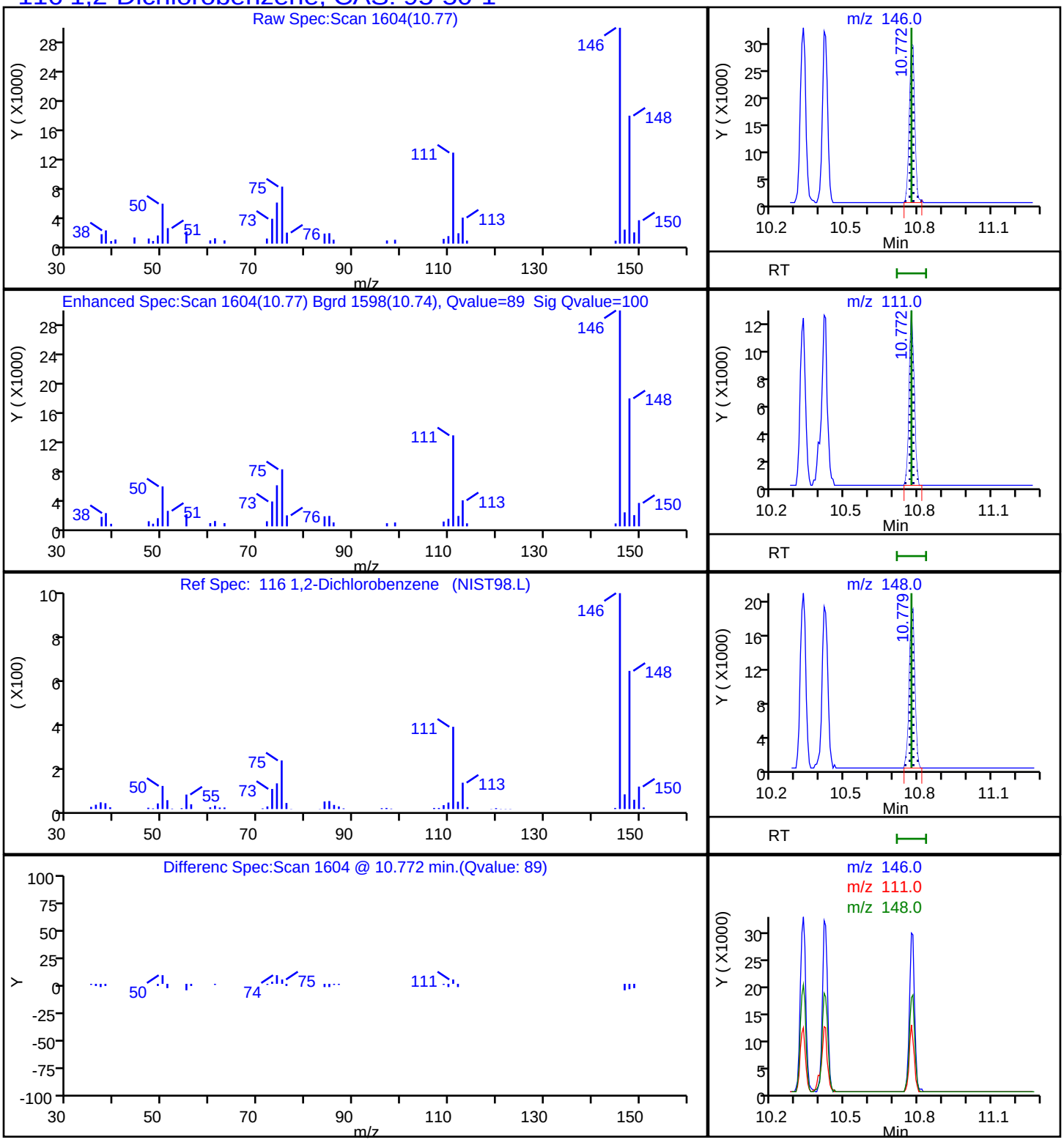
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2054.D

Injection Date:	09-Aug-2021 16:43:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-3	Lab Sample ID:	480-188016-3		
Client ID:	MW-99-01				
Operator ID:	LH/AK/AG	ALS Bottle#:	17	Worklist Smp#:	67
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

116 1,2-Dichlorobenzene, CAS: 95-50-1



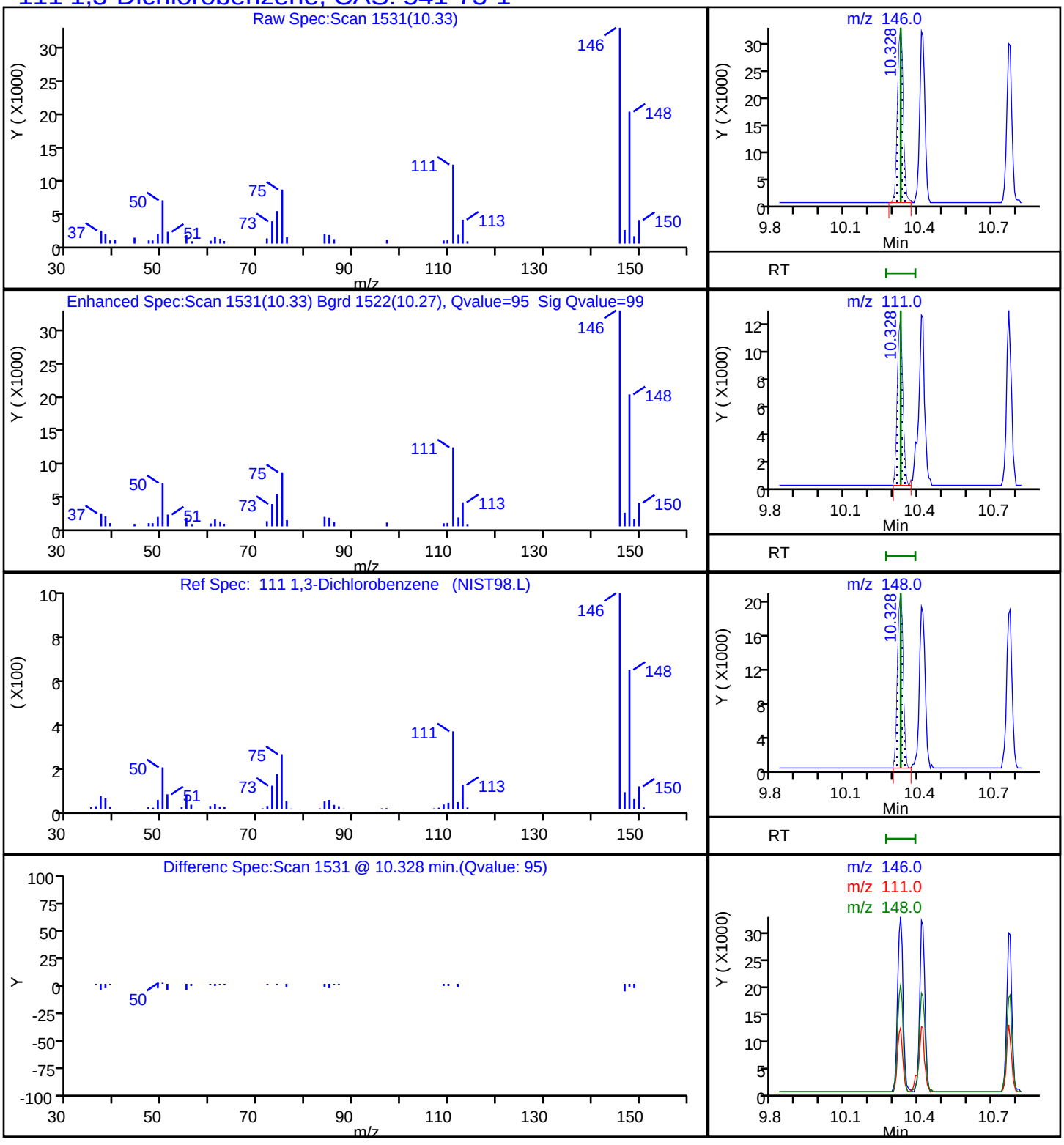
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2054.D

Injection Date:	09-Aug-2021 16:43:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-3	Lab Sample ID:	480-188016-3		
Client ID:	MW-99-01				
Operator ID:	LH/AK/AG	ALS Bottle#:	17	Worklist Smp#:	67
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

111 1,3-Dichlorobenzene, CAS: 541-73-1



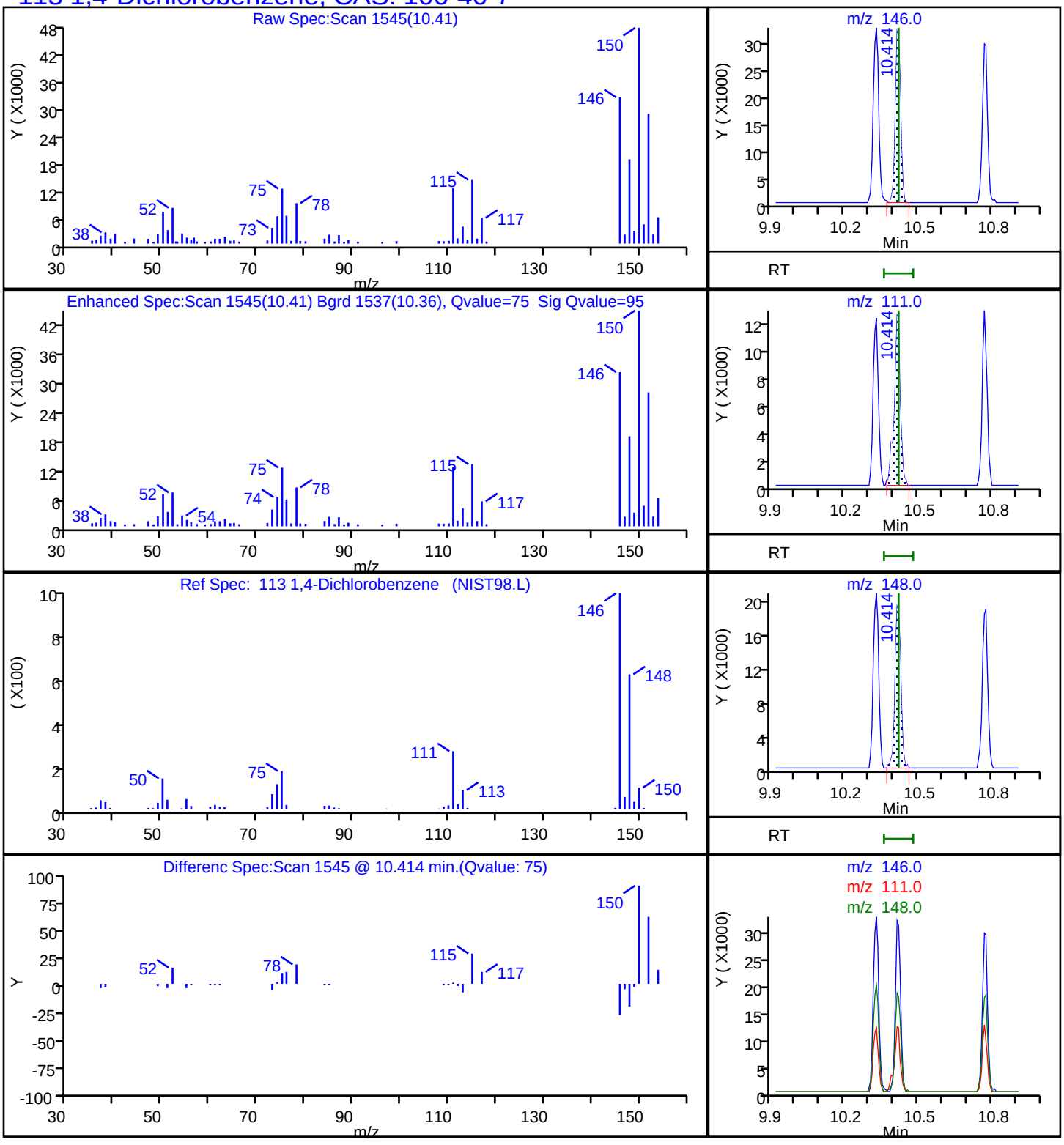
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2054.D

Injection Date:	09-Aug-2021 16:43:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-3	Lab Sample ID:	480-188016-3		
Client ID:	MW-99-01				
Operator ID:	LH/AK/AG	ALS Bottle#:	17	Worklist Smp#:	67
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

113 1,4-Dichlorobenzene, CAS: 106-46-7



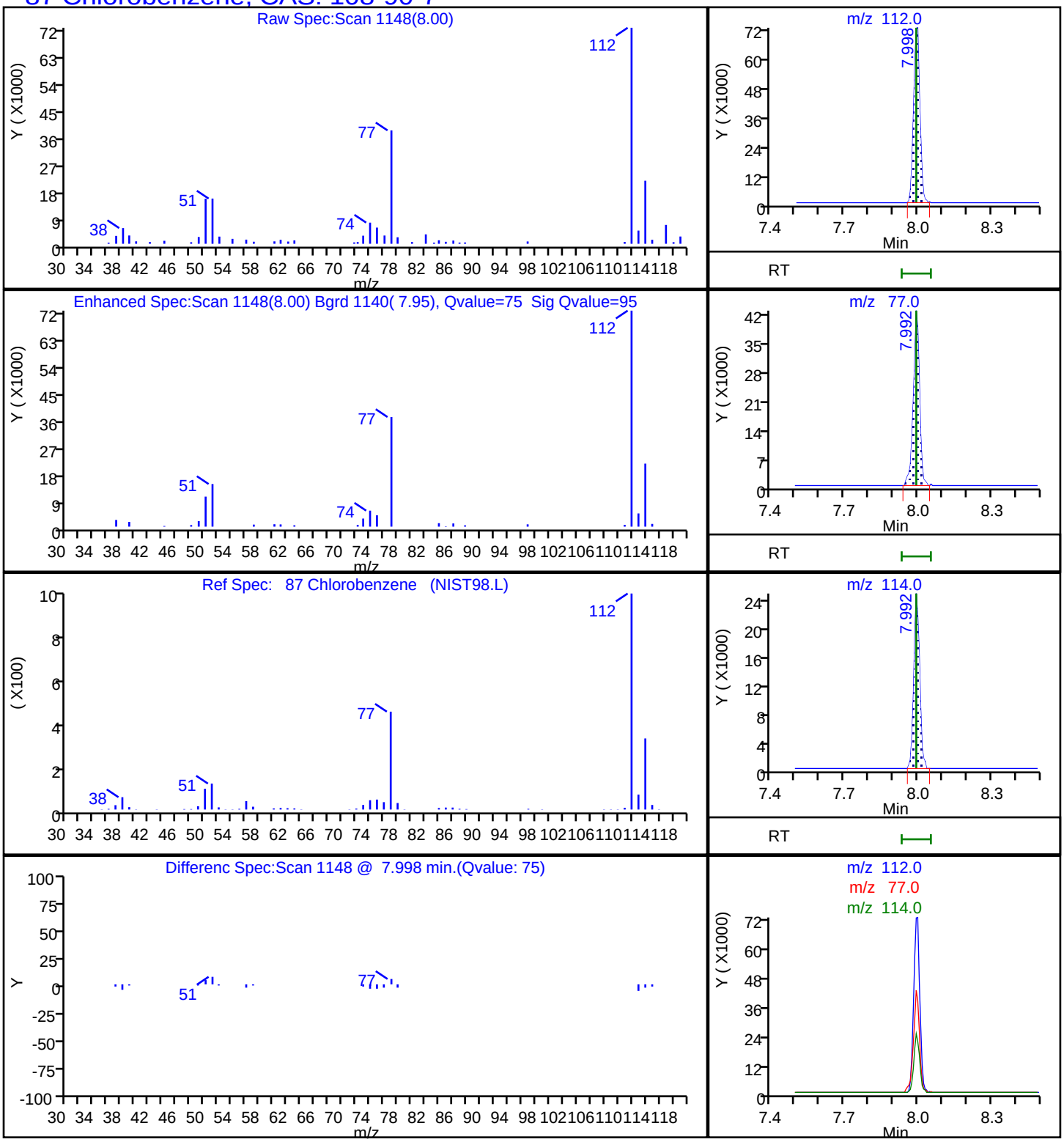
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2054.D

Injection Date:	09-Aug-2021 16:43:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-3	Lab Sample ID:	480-188016-3		
Client ID:	MW-99-01				
Operator ID:	LH/AK/AG	ALS Bottle#:	17	Worklist Smp#:	67
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7



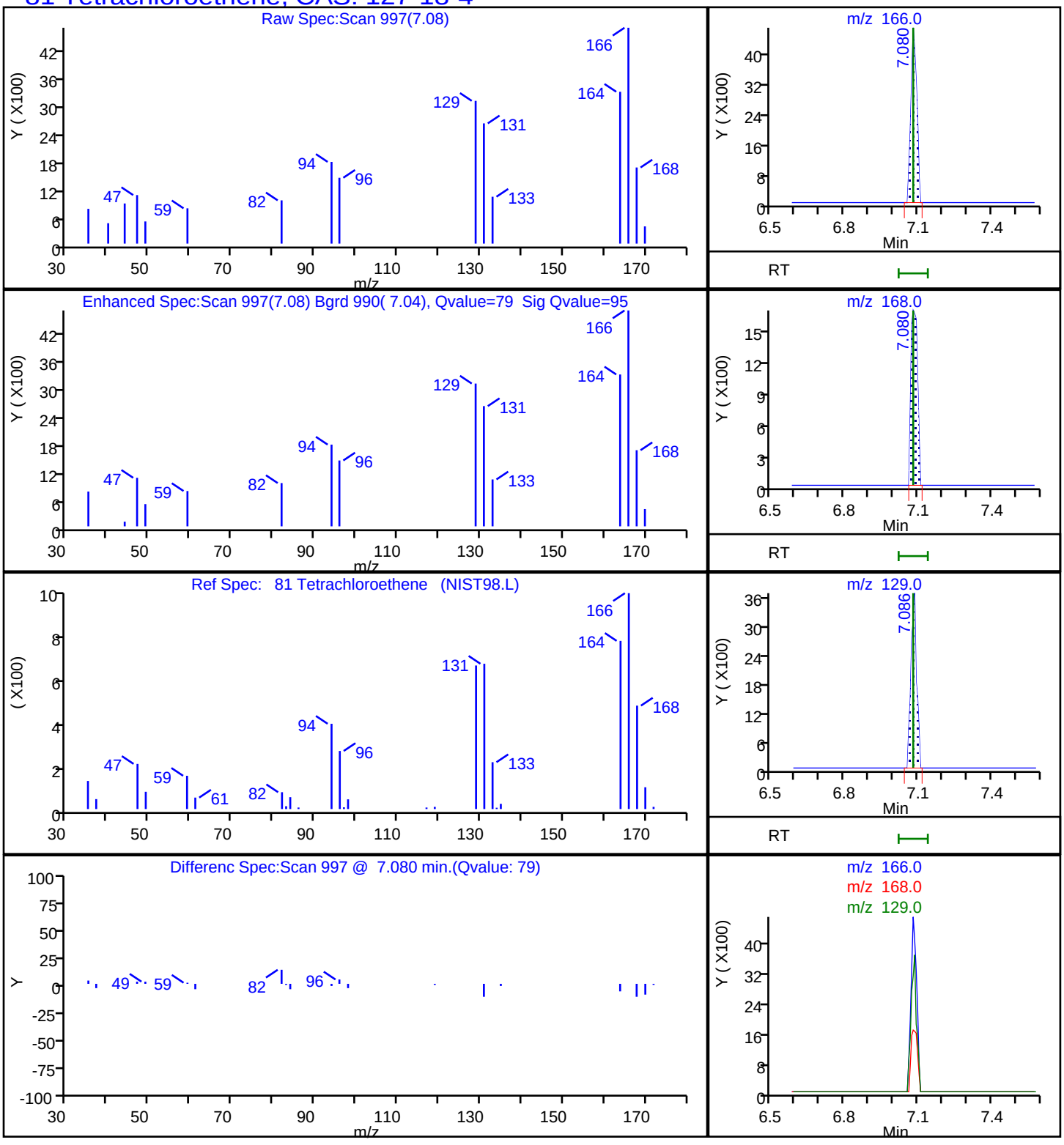
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2054.D

Injection Date:	09-Aug-2021 16:43:30	Instrument ID:	HP5973S
Lims ID:	480-188016-D-3	Lab Sample ID:	480-188016-3
Client ID:	MW-99-01		
Operator ID:	LH/AK/AG	ALS Bottle#:	17 Worklist Smp#: 67
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

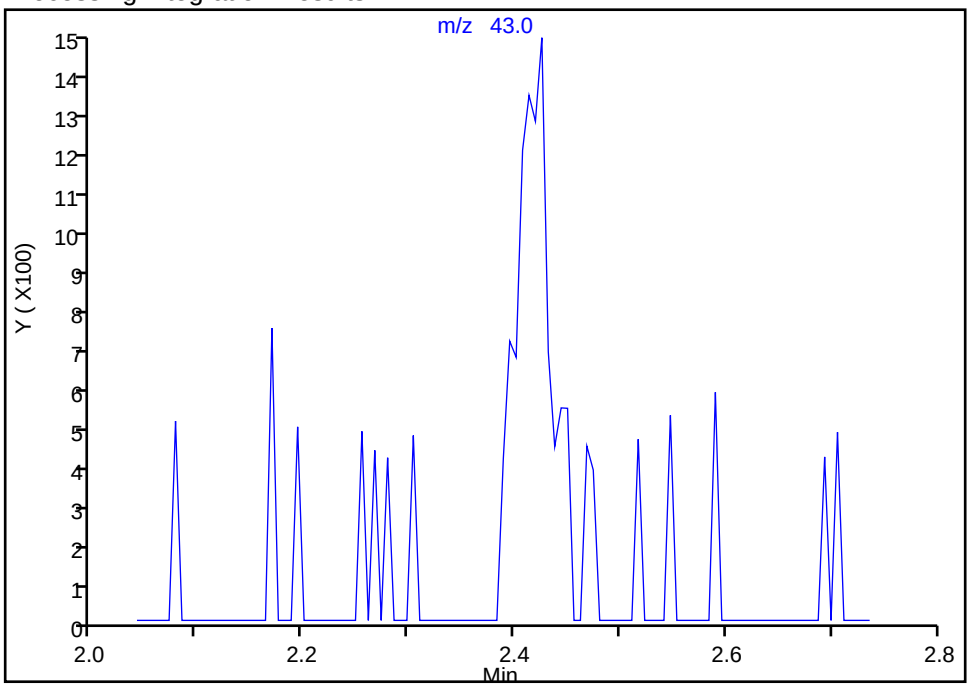
Data File:	\\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2054.D				
Injection Date:	09-Aug-2021 16:43:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-3	Lab Sample ID:	480-188016-3		
Client ID:	MW-99-01				
Operator ID:	LH/AK/AG	ALS Bottle#:	17	Worklist Smp#:	67
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

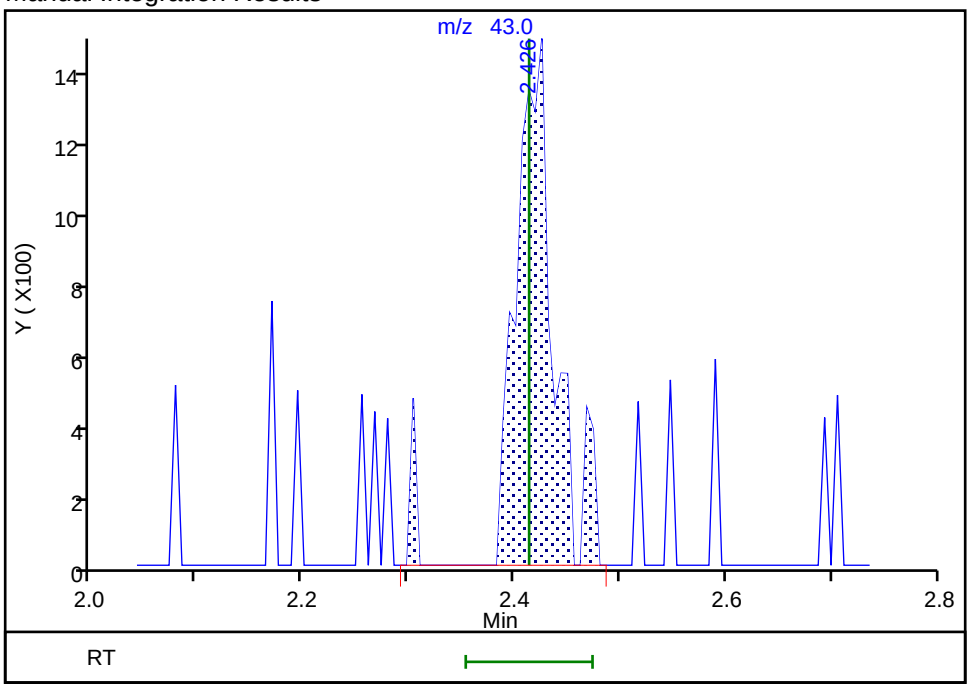
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 3685
Amount: 0.797435
Amount Units: ug/L



Reviewer: kiwana, 10-Aug-2021 11:09:30
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.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-28 Lab Sample ID: 480-188016-4

Matrix: Water Lab File ID: S2055.D

Analysis Method: 8260C Date Collected: 08/02/2021 15:46

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 17:06

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-28 Lab Sample ID: 480-188016-4

Matrix: Water Lab File ID: S2055.D

Analysis Method: 8260C Date Collected: 08/02/2021 15:46

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 17:06

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2055.D
Lims ID: 480-188016-D-4
Client ID: MW-86-28
Sample Type: Client
Inject. Date: 09-Aug-2021 17:06:30 ALS Bottle#: 18 Worklist Smp#: 68
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-4
Misc. Info.: 480-0100304-068
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:10:09 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:10:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	140848	25.0	
* 2 Chlorobenzene-d5	82	7.968	7.968	0.000	84	273564	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	292662	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.433	-0.006	56	208651	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.731	4.732	-0.001	93	127438	26.1	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	94	703214	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	89	224961	23.7	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166		7.080				ND	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

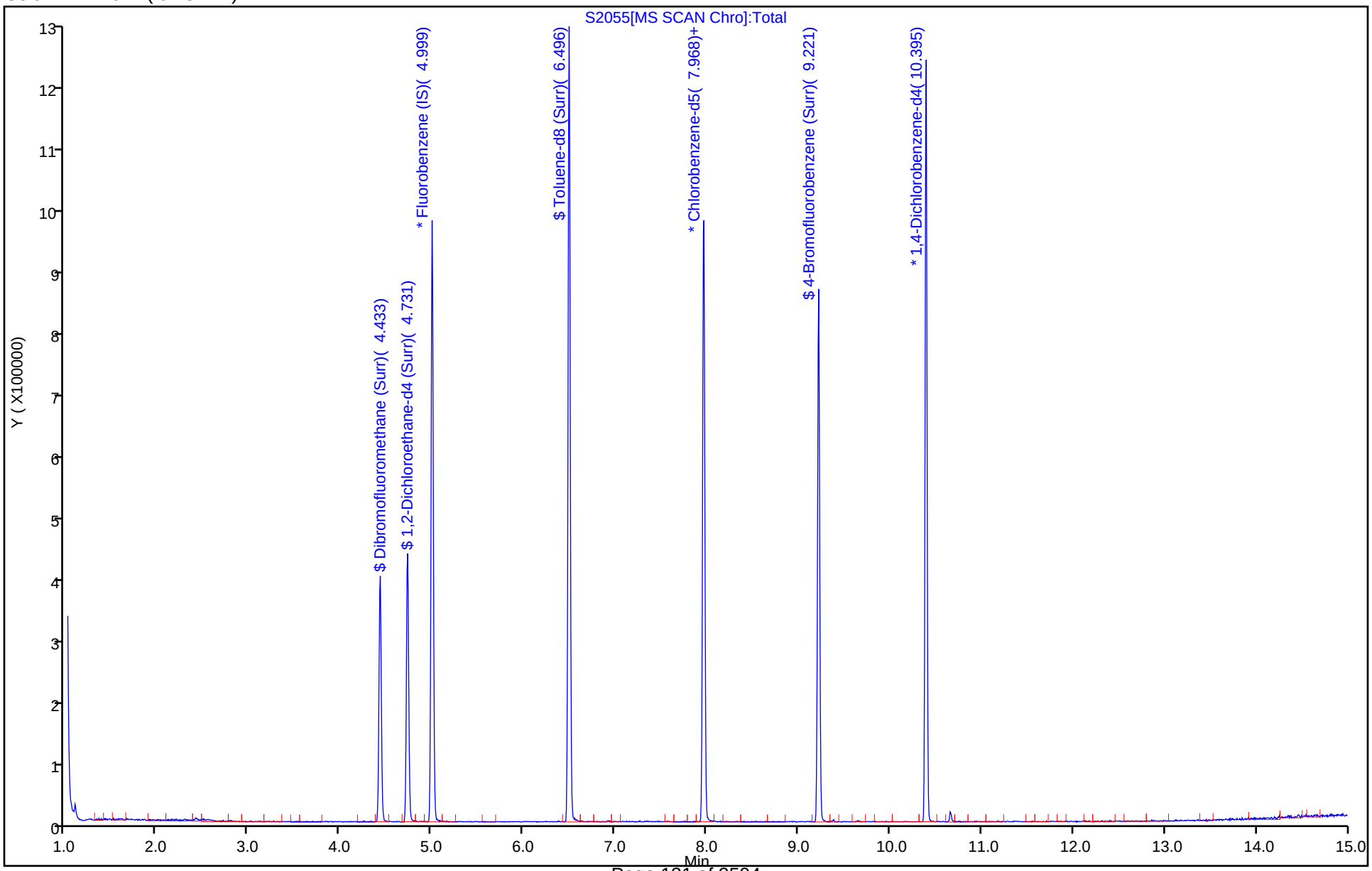
Report Date: 10-Aug-2021 11:10:41 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2055.D

Injection Date:	09-Aug-2021 17:06:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-4	Lab Sample ID:	480-188016-4	Worklist Smp#:	68
Client ID:	MW-86-28				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	S-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.: 480-188016-1

SDG No.:

Client Sample ID: MW-12 Lab Sample ID: 480-188016-5

Matrix: Water Lab File ID: S2056.D

Analysis Method: 8260C Date Collected: 08/03/2021 15:56

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 17:30

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-12 Lab Sample ID: 480-188016-5

Matrix: Water Lab File ID: S2056.D

Analysis Method: 8260C Date Collected: 08/03/2021 15:56

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 17:30

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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	0.45	J	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
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2056.D
Lims ID: 480-188016-D-5
Client ID: MW-12
Sample Type: Client
Inject. Date: 09-Aug-2021 17:30:30 ALS Bottle#: 19 Worklist Smp#: 69
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-5
Misc. Info.: 480-0100304-069
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:10:09 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:11:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	143035	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	86	282774	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.396	10.395	0.001	94	305936	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.434	4.433	0.001	56	208101	25.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	93	127583	25.8	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	93	724307	24.3	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	231675	23.6	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	7
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166	7.080	7.080	0.000	40	4549	0.4486	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

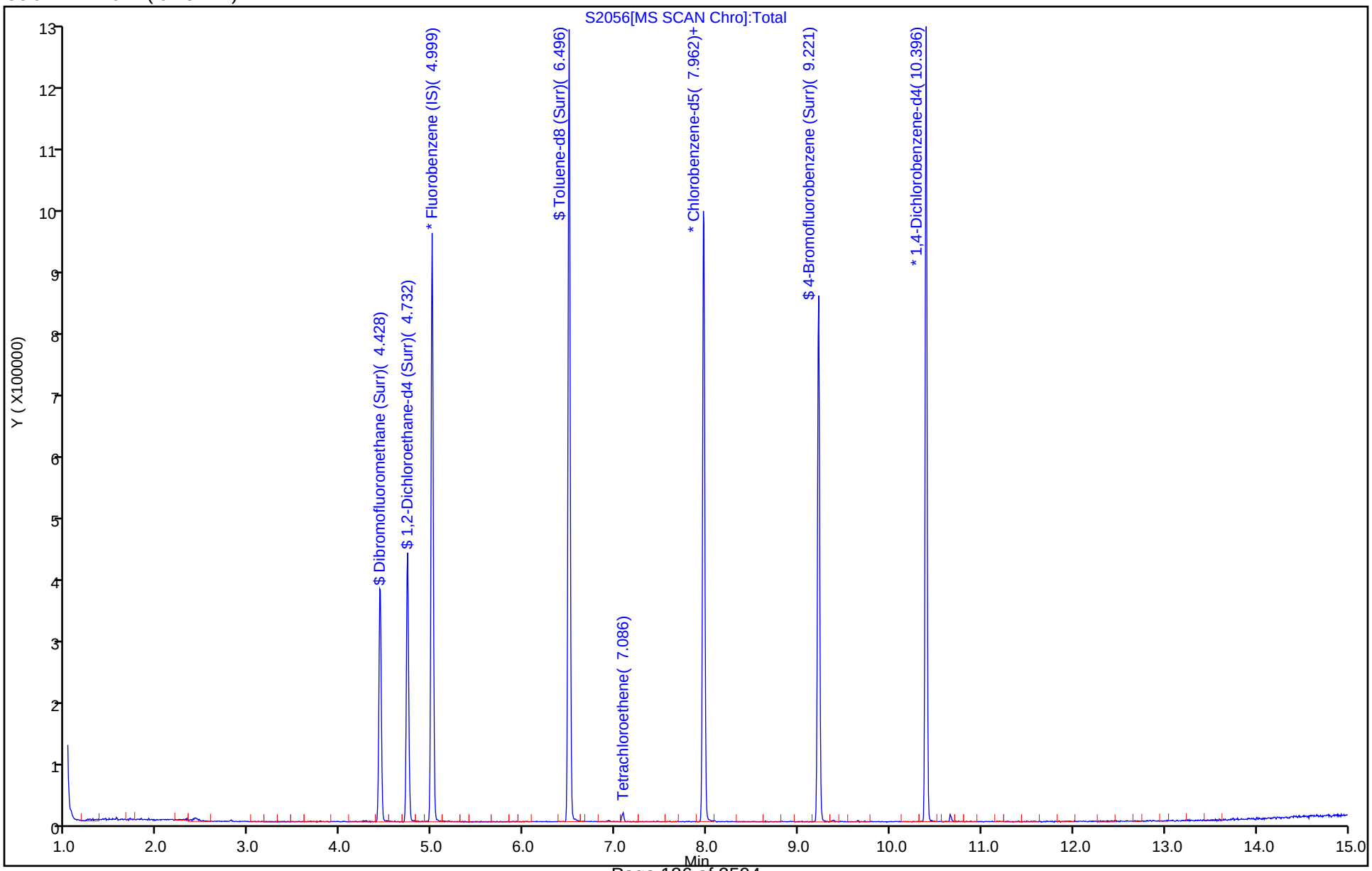
Report Date: 10-Aug-2021 11:11:05 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2056.D

Injection Date:	09-Aug-2021 17:30:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-5	Lab Sample ID:	480-188016-5	Worklist Smp#:	69
Client ID:	MW-12				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



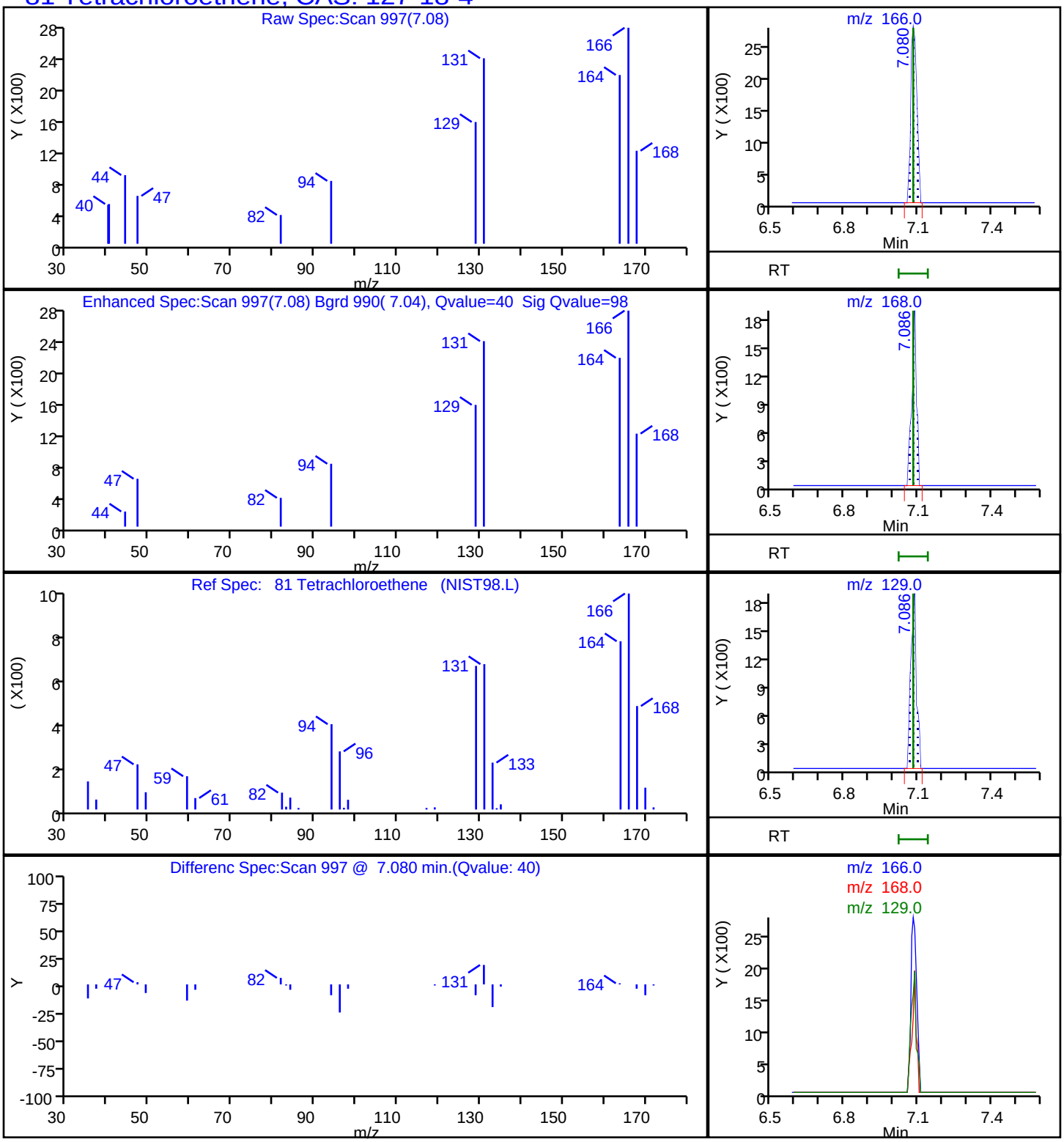
Report Date: 10-Aug-2021 11:11:05 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2056.D

Injection Date:	09-Aug-2021 17:30:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-5	Lab Sample ID:	480-188016-5		
Client ID:	MW-12				
Operator ID:	LH/AK/AG	ALS Bottle#:	19	Worklist Smp#:	69
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-1SH Lab Sample ID: 480-188016-6

Matrix: Water Lab File ID: S2057.D

Analysis Method: 8260C Date Collected: 08/03/2021 09:13

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 17:53

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-1SH Lab Sample ID: 480-188016-6

Matrix: Water Lab File ID: S2057.D

Analysis Method: 8260C Date Collected: 08/03/2021 09:13

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 17:53

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2057.D
Lims ID: 480-188016-D-6
Client ID: MW-86-1SH
Sample Type: Client
Inject. Date: 09-Aug-2021 17:53:30 ALS Bottle#: 20 Worklist Smp#: 70
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-6
Misc. Info.: 480-0100304-070
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:10:09 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:11:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	138311	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	85	282098	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	303902	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.433	0.000	57	204391	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	93	130289	27.2	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	93	724760	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	88	226081	23.1	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83	4.275	4.275	0.000	26	3634	0.2199	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166		7.080				ND	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

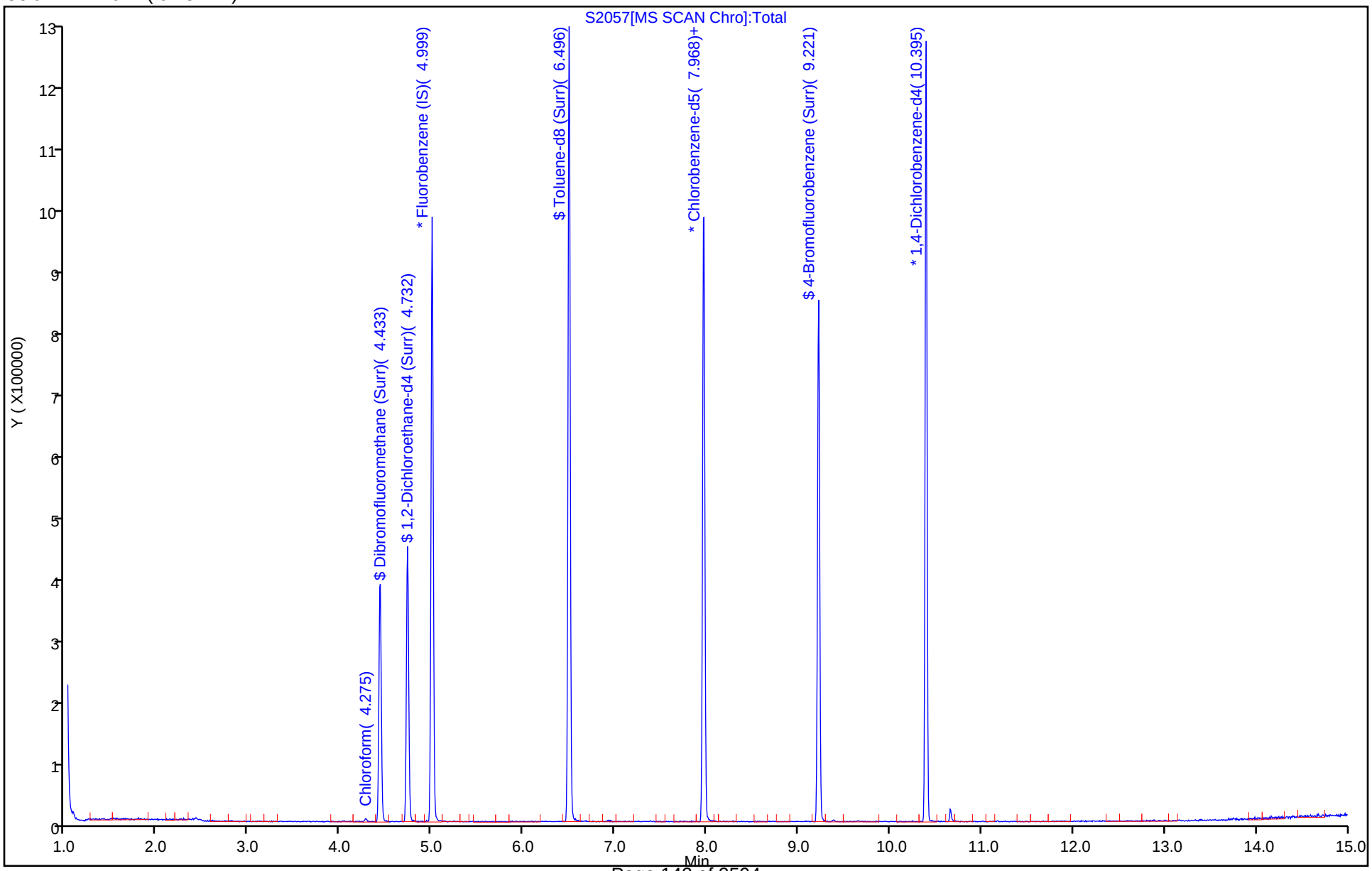
Report Date: 10-Aug-2021 11:11:41 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2057.D

Injection Date:	09-Aug-2021 17:53:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-6	Lab Sample ID:	480-188016-6	Worklist Smp#:	70
Client ID:	MW-86-1SH				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	S-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.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-X3 Lab Sample ID: 480-188016-7

Matrix: Water Lab File ID: S2058.D

Analysis Method: 8260C Date Collected: 08/03/2021 10:41

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 18:16

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-X3 Lab Sample ID: 480-188016-7

Matrix: Water Lab File ID: S2058.D

Analysis Method: 8260C Date Collected: 08/03/2021 10:41

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 18:16

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2058.D
Lims ID: 480-188016-D-7
Client ID: MW-86-X3
Sample Type: Client
Inject. Date: 09-Aug-2021 18:16:30 ALS Bottle#: 21 Worklist Smp#: 71
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-7
Misc. Info.: 480-0100304-071
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:10:09 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:12:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	141297	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	85	272984	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	283351	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.428	4.433	-0.005	56	206516	25.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	93	123942	25.3	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	93	711617	24.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	89	217213	22.9	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	7
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166		7.080				ND	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

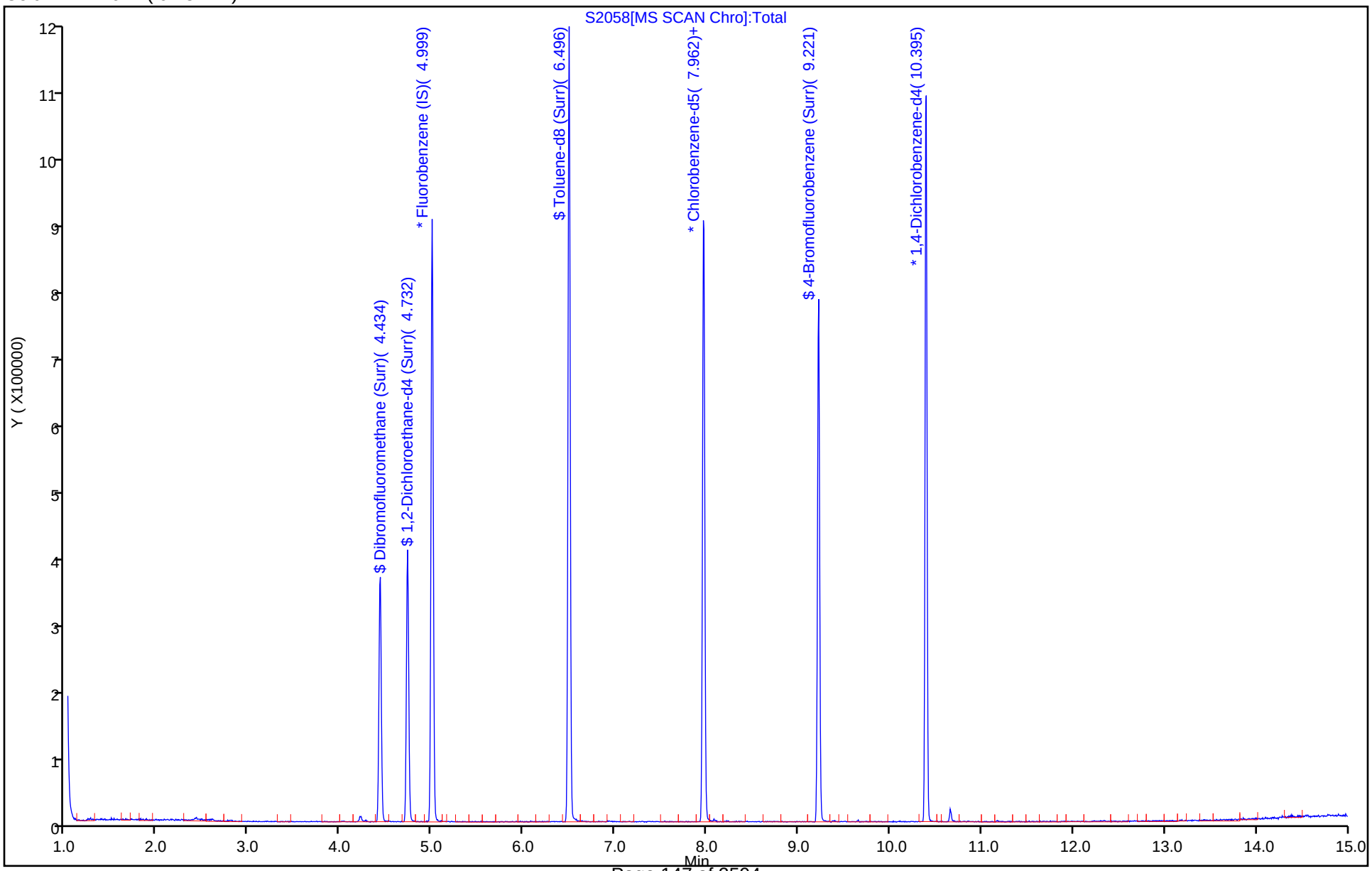
Report Date: 10-Aug-2021 11:12:04 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2058.D

Injection Date:	09-Aug-2021 18:16:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-7	Lab Sample ID:	480-188016-7	Worklist Smp#:	71
Client ID:	MW-86-X3				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	S-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.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-02 Lab Sample ID: 480-188016-8

Matrix: Water Lab File ID: S2059.D

Analysis Method: 8260C Date Collected: 08/03/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 18:39

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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	1.3		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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-02 Lab Sample ID: 480-188016-8

Matrix: Water Lab File ID: S2059.D

Analysis Method: 8260C Date Collected: 08/03/2021 12:00

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 18:39

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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	3.9		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	0.53	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
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2059.D
Lims ID: 480-188016-D-8
Client ID: MW-99-02
Sample Type: Client
Inject. Date: 09-Aug-2021 18:39:30 ALS Bottle#: 22 Worklist Smp#: 72
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-8
Misc. Info.: 480-0100304-072
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:13:25 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:13:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	137403	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	86	267375	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	282740	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.433	0.000	56	206752	26.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	93	128524	27.0	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	94	705506	25.0	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	213478	23.0	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	7
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	55	13721	1.32	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95	5.334	5.334	0.000	54	4805	0.5287	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166	7.086	7.080	0.006	89	37517	3.91	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	U
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

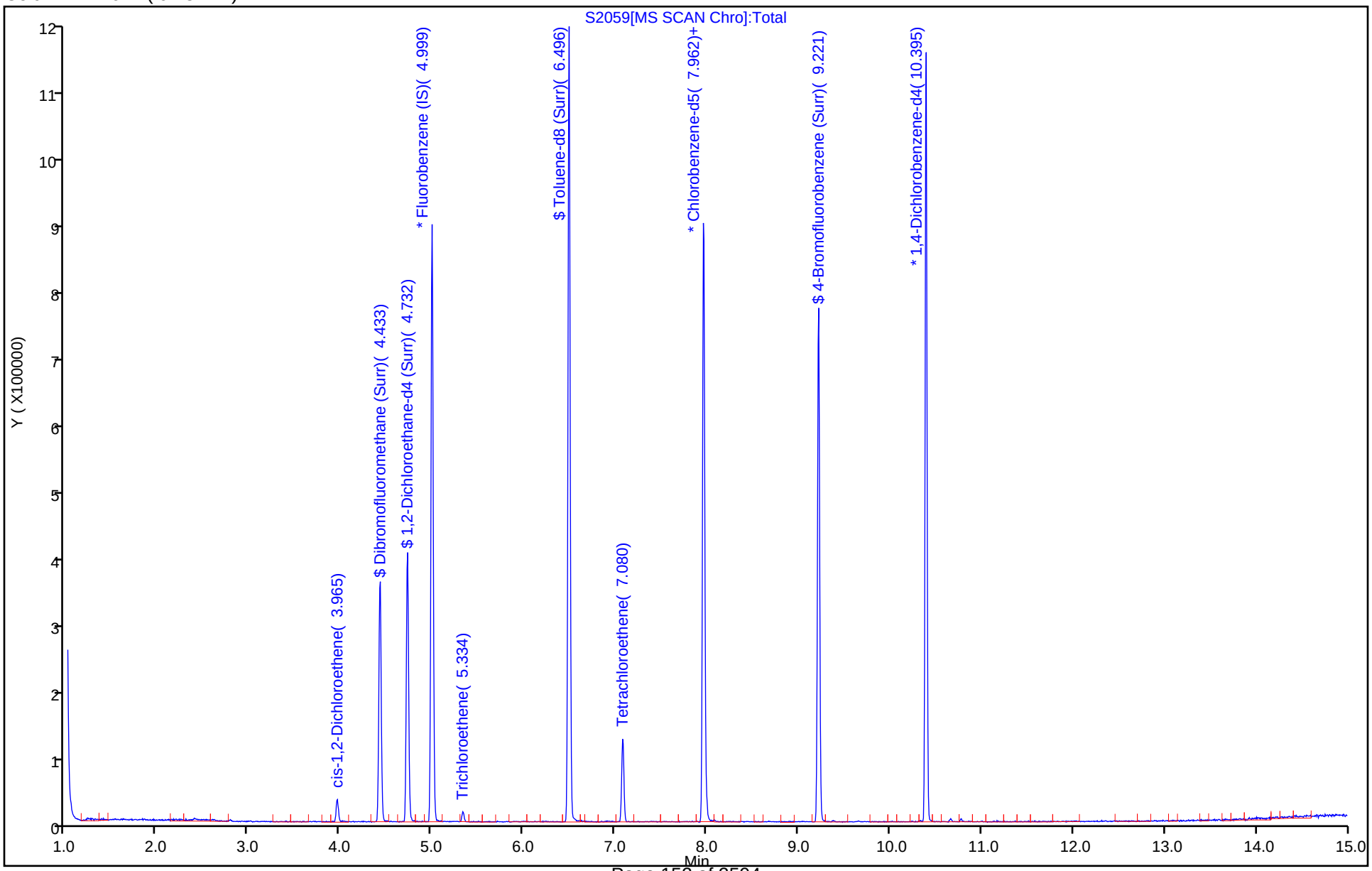
Report Date: 10-Aug-2021 11:13:25 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2059.D

Injection Date:	09-Aug-2021 18:39:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-8	Lab Sample ID:	480-188016-8	Worklist Smp#:	72
Client ID:	MW-99-02				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



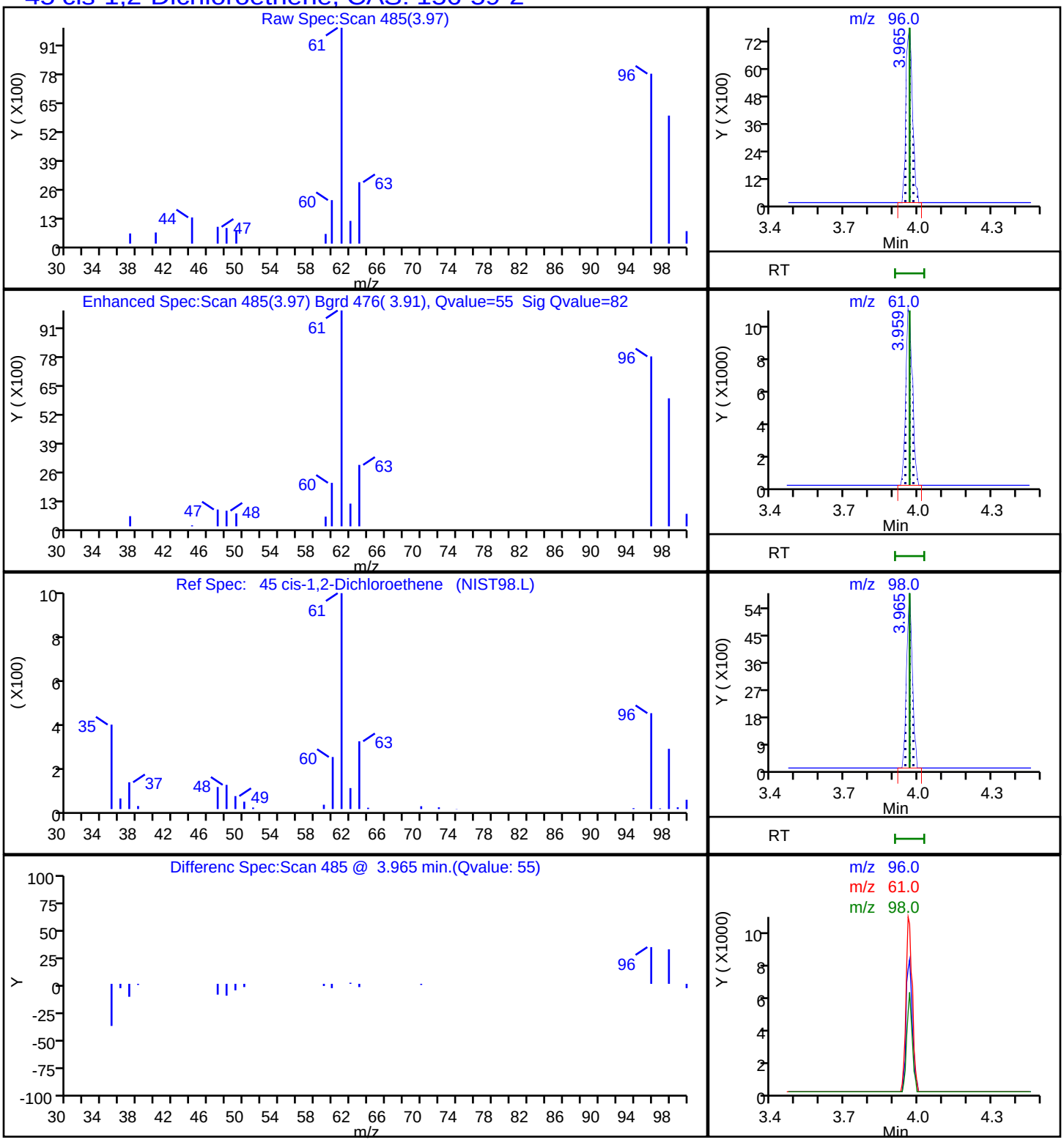
Report Date: 10-Aug-2021 11:13:25 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2059.D

Injection Date:	09-Aug-2021 18:39:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-8	Lab Sample ID:	480-188016-8		
Client ID:	MW-99-02				
Operator ID:	LH/AK/AG	ALS Bottle#:	22	Worklist Smp#:	72
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

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



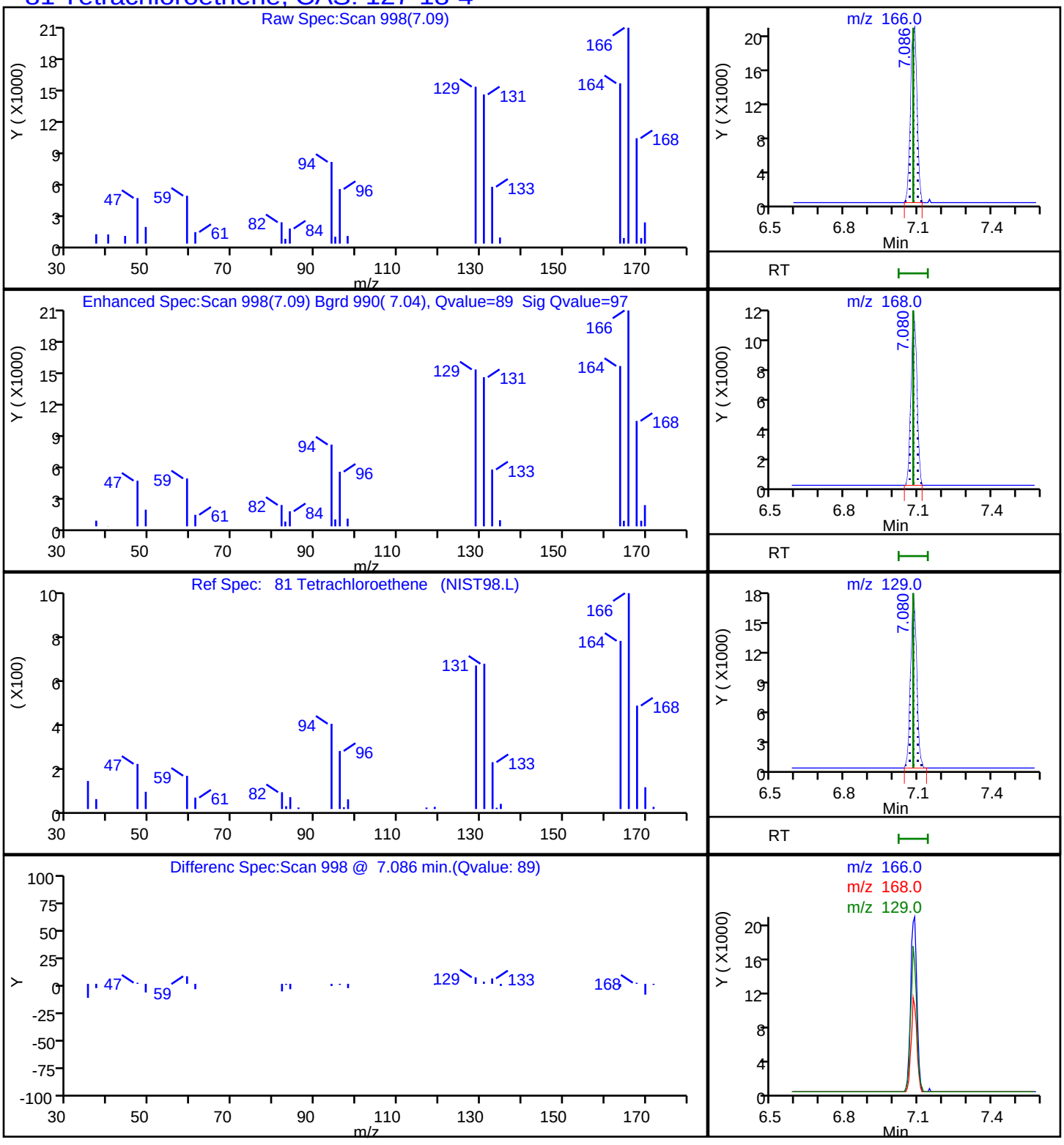
Report Date: 10-Aug-2021 11:13:26 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2059.D

Injection Date:	09-Aug-2021 18:39:30	Instrument ID:	HP5973S
Lims ID:	480-188016-D-8	Lab Sample ID:	480-188016-8
Client ID:	MW-99-02		
Operator ID:	LH/AK/AG	ALS Bottle#:	22 Worklist Smp#: 72
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



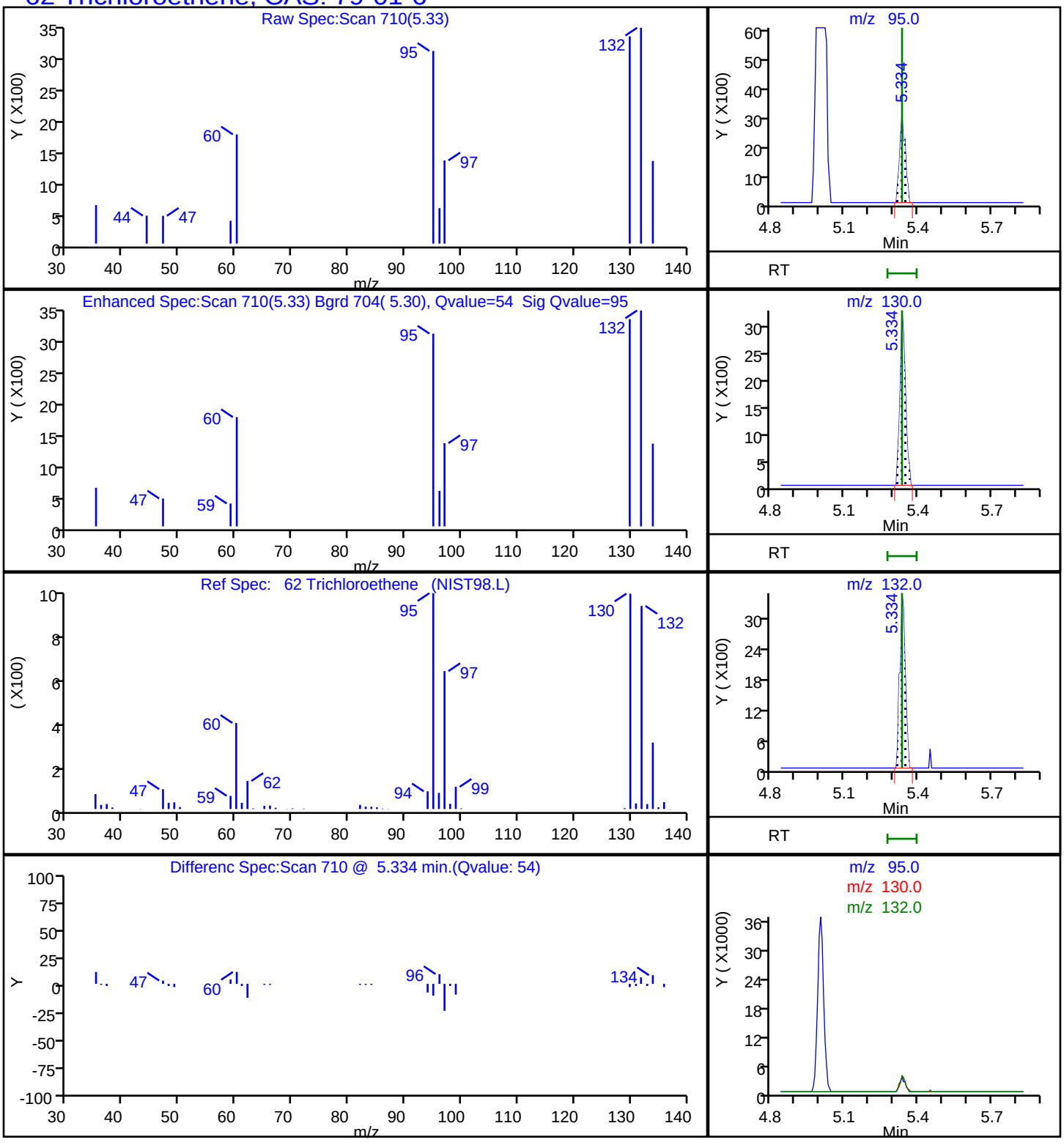
Report Date: 10-Aug-2021 11:13:26 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2059.D

Injection Date:	09-Aug-2021 18:39:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-8	Lab Sample ID:	480-188016-8		
Client ID:	MW-99-02				
Operator ID:	LH/AK/AG	ALS Bottle#:	22	Worklist Smp#:	72
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



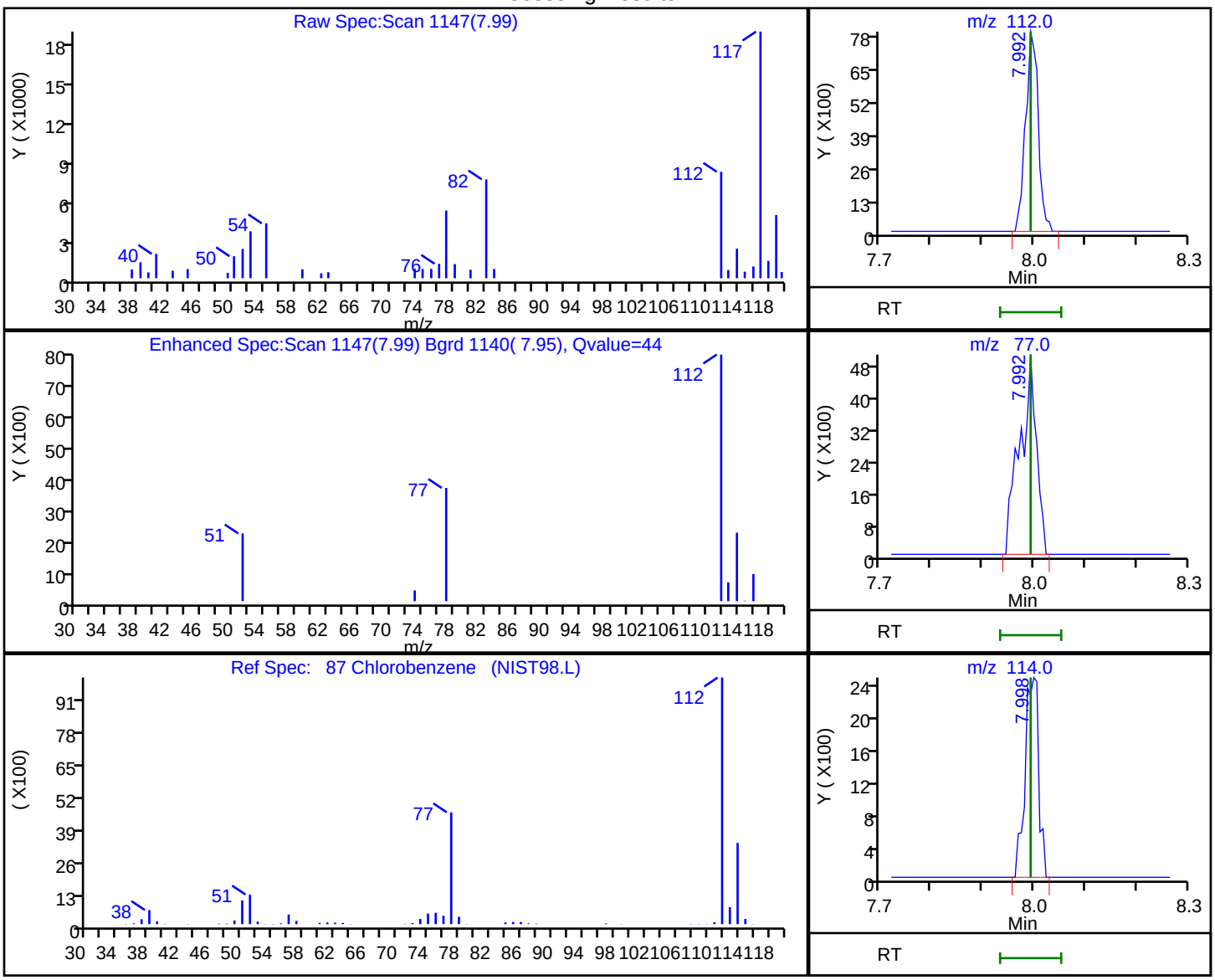
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File:	\\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2059.D				
Injection Date:	09-Aug-2021 18:39:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-8	Lab Sample ID:	480-188016-8		
Client ID:	MW-99-02				
Operator ID:	LH/AK/AG	ALS Bottle#:	22	Worklist Smp#:	72
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

87 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
7.99	112.00	13763	0.530824
7.99	77.00	11466	
8.00	114.00	4513	

Reviewer: kiwana, 10-Aug-2021 11:13:01

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.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-04 Lab Sample ID: 480-188016-9

Matrix: Water Lab File ID: S2060.D

Analysis Method: 8260C Date Collected: 08/03/2021 13:27

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 19:03

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-04 Lab Sample ID: 480-188016-9

Matrix: Water Lab File ID: S2060.D

Analysis Method: 8260C Date Collected: 08/03/2021 13:27

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 19:03

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2060.D
Lims ID: 480-188016-D-9
Client ID: MW-99-04
Sample Type: Client
Inject. Date: 09-Aug-2021 19:03:30 ALS Bottle#: 23 Worklist Smp#: 73
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-9
Misc. Info.: 480-0100304-073
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:13:25 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:13:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	141609	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	86	276011	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	300121	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.433	0.000	57	208272	25.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.731	4.732	-0.001	92	129668	26.4	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	95	717190	24.6	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	88	225608	23.5	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166		7.080				ND	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

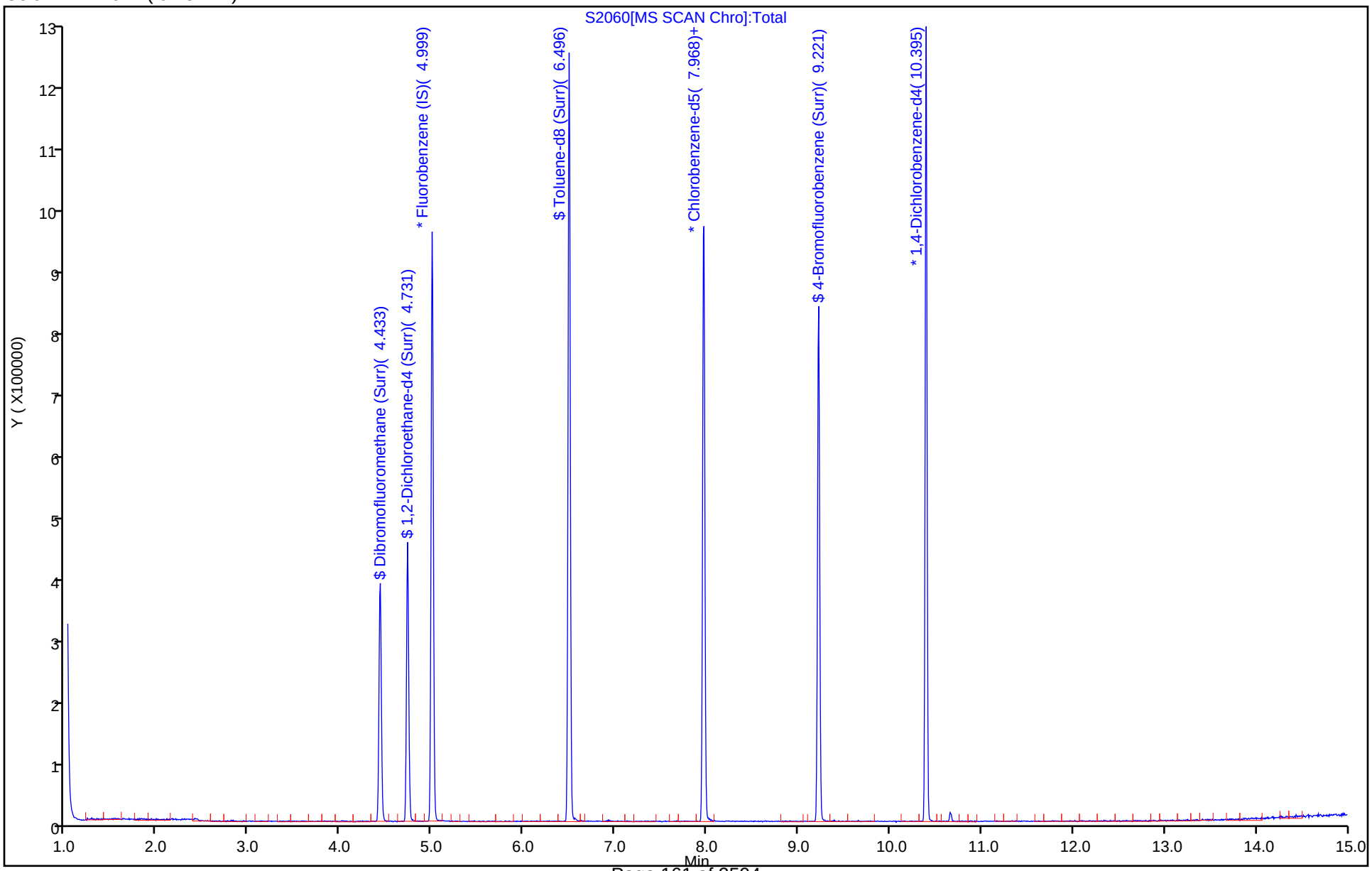
Report Date: 10-Aug-2021 11:13:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2060.D

Injection Date:	09-Aug-2021 19:03:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-9	Lab Sample ID:	480-188016-9	Worklist Smp#:	73
Client ID:	MW-99-04				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	S-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.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-27 Lab Sample ID: 480-188016-10

Matrix: Water Lab File ID: S2061.D

Analysis Method: 8260C Date Collected: 08/03/2021 14:56

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 19:26

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	0.50	J	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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-27 Lab Sample ID: 480-188016-10

Matrix: Water Lab File ID: S2061.D

Analysis Method: 8260C Date Collected: 08/03/2021 14:56

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 19:26

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	93		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2061.D
Lims ID: 480-188016-D-10
Client ID: MW-86-27
Sample Type: Client
Inject. Date: 09-Aug-2021 19:26:30 ALS Bottle#: 24 Worklist Smp#: 74
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-10
Misc. Info.: 480-0100304-074
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:13:25 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:14:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	139384	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	86	280697	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	311171	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.434	4.433	0.001	56	201876	25.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	91	127472	26.4	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	94	727387	24.6	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	89	227431	23.3	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	7
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83	4.281	4.275	0.006	60	8320	0.4996	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166		7.080				ND	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

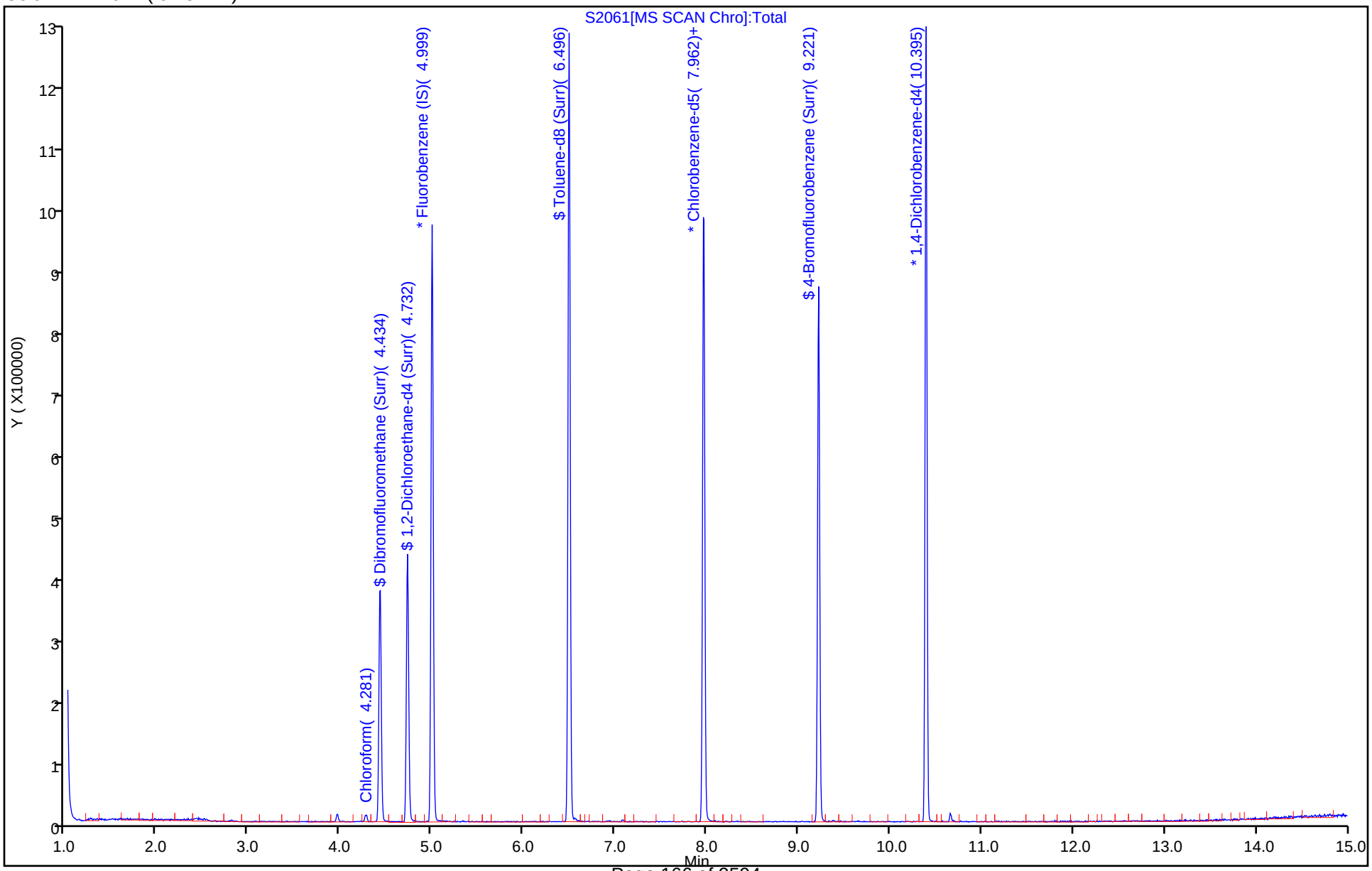
Report Date: 10-Aug-2021 11:14:10 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2061.D

Injection Date:	09-Aug-2021 19:26:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-10	Lab Sample ID:	480-188016-10	Worklist Smp#:	74
Client ID:	MW-86-27				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



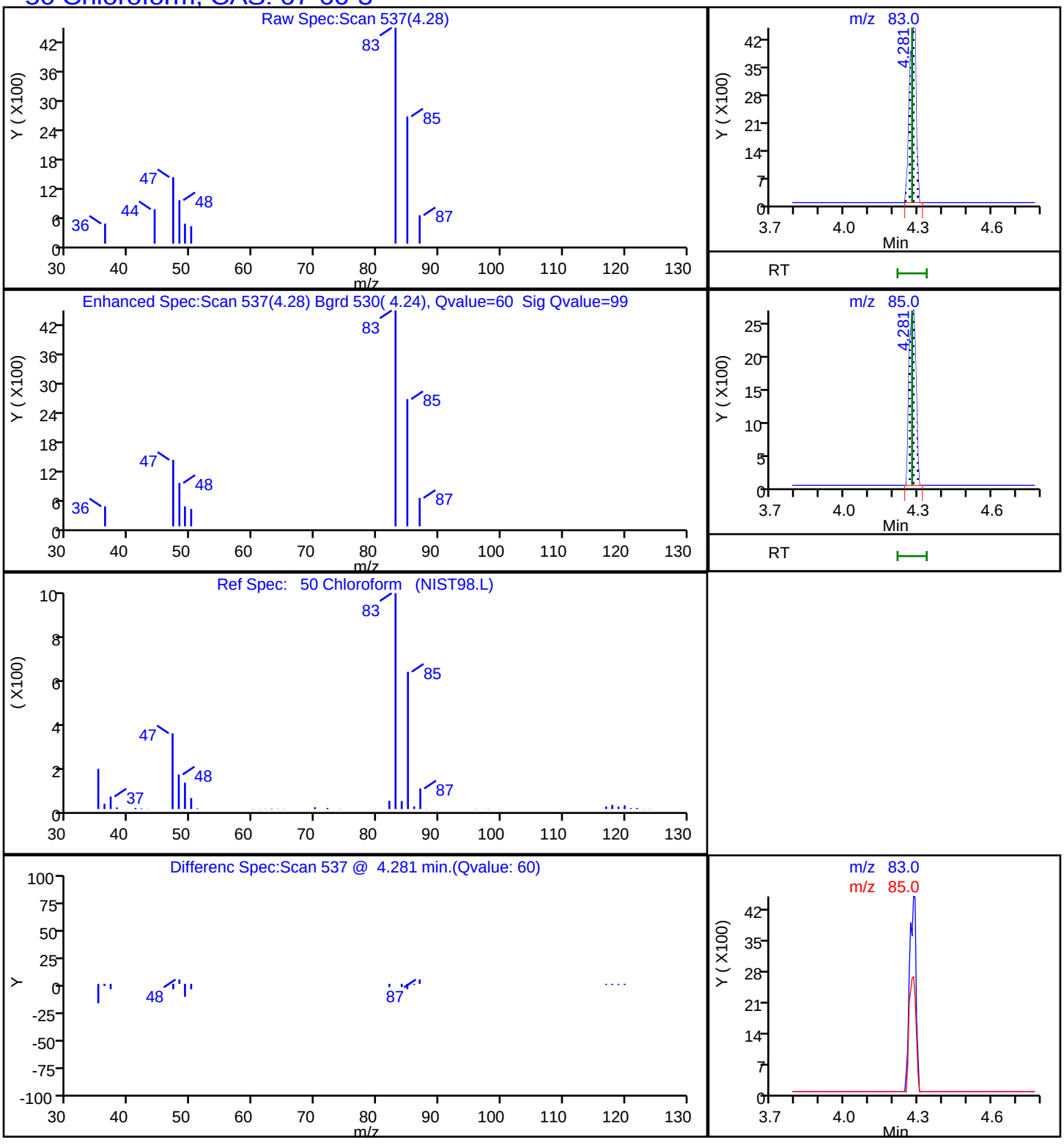
Report Date: 10-Aug-2021 11:14:10 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2061.D

Injection Date:	09-Aug-2021 19:26:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-10	Lab Sample ID:	480-188016-10		
Client ID:	MW-86-27				
Operator ID:	LH/AK/AG	ALS Bottle#:	24	Worklist Smp#:	74
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: DUP-080321 Lab Sample ID: 480-188016-11

Matrix: Water Lab File ID: S2062.D

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

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 19:49

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: DUP-080321 Lab Sample ID: 480-188016-11

Matrix: Water Lab File ID: S2062.D

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

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 19:49

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	108		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2062.D
Lims ID: 480-188016-D-11
Client ID: DUP-080321
Sample Type: Client
Inject. Date: 09-Aug-2021 19:49:30 ALS Bottle#: 25 Worklist Smp#: 75
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-11
Misc. Info.: 480-0100304-075
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:14:44 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1620

First Level Reviewer: kiwana Date: 10-Aug-2021 11:14:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	134161	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	85	256773	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	273155	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.433	-0.006	55	208598	26.9	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	92	123682	26.6	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	93	681389	25.2	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	212669	23.9	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.246				ND	U
13 Vinyl chloride	62		1.325				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.310				ND	
23 Acetone	43		2.414				ND	
26 Carbon disulfide	76		2.499				ND	
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.809				ND	7
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.506				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.798				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.571				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166		7.080				ND	
80 2-Hexanone	43		7.275				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.637				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.328				ND	
113 1,4-Dichlorobenzene	146		10.420				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

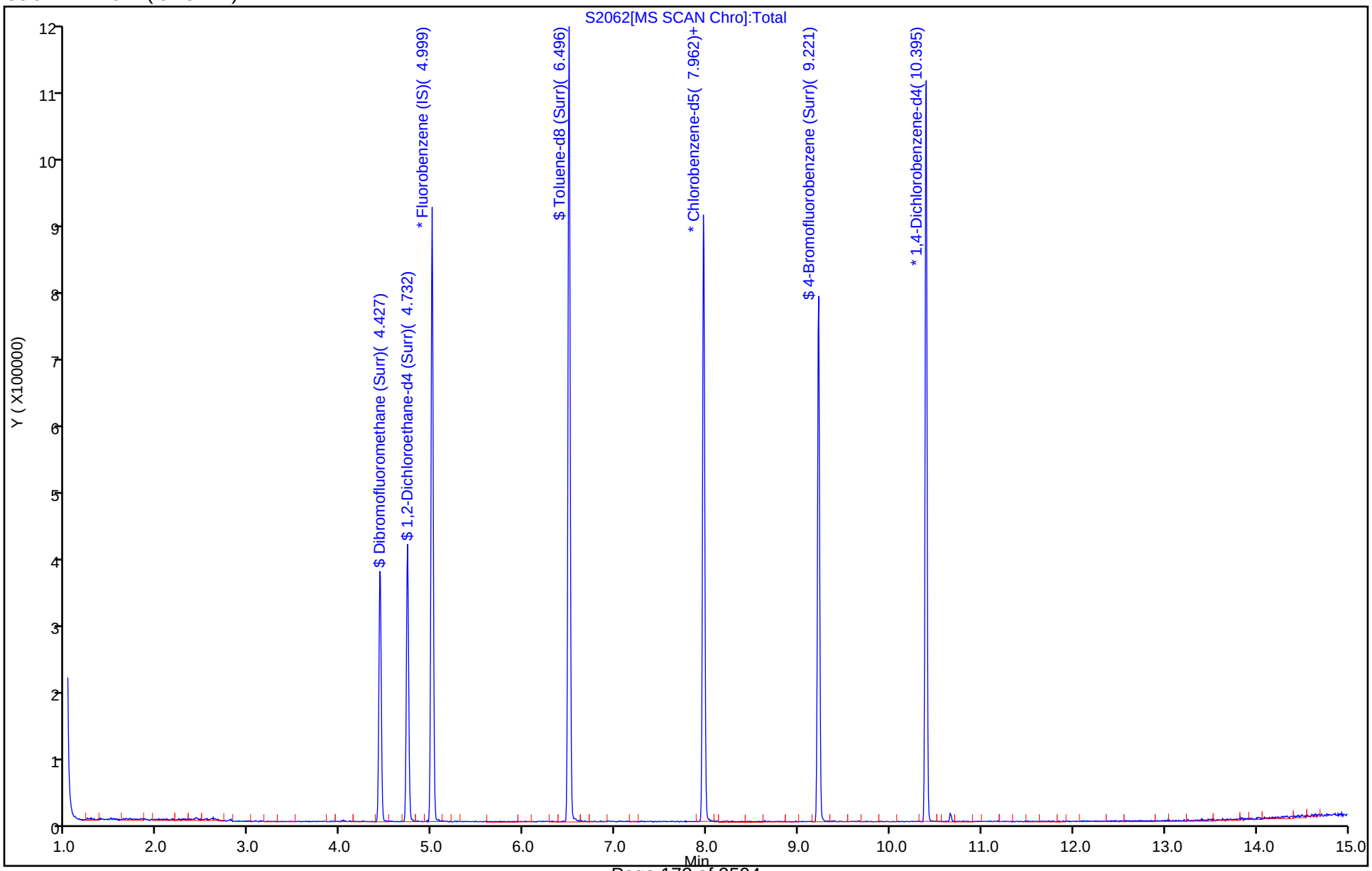
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2062.D

Injection Date:	09-Aug-2021 19:49:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-11	Lab Sample ID:	480-188016-11	Worklist Smp#:	75
Client ID:	DUP-080321				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



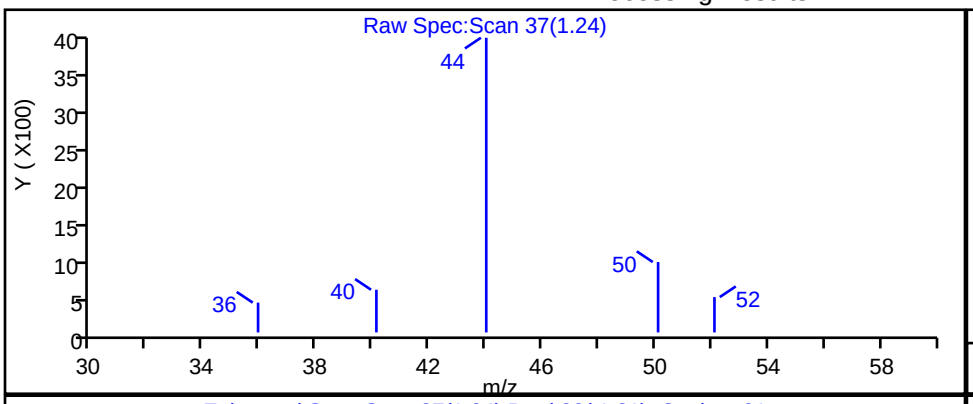
User Disabled Compound Report

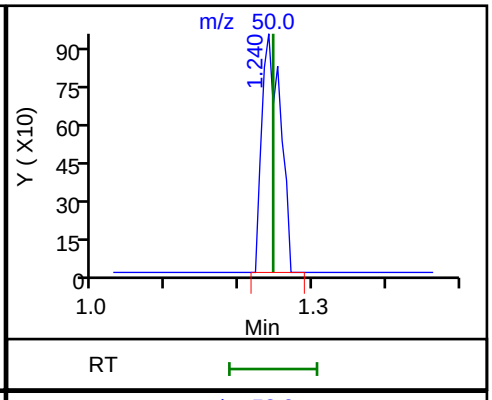
Eurofins TestAmerica, Buffalo

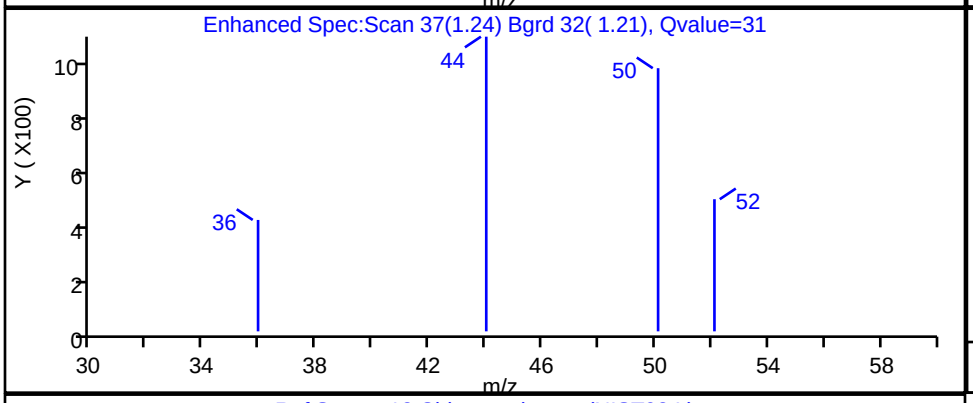
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Injection Date:	09-Aug-2021 19:49:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-D-11	Lab Sample ID:	480-188016-11		
Client ID:	DUP-080321				
Operator ID:	LH/AK/AG	ALS Bottle#:	25	Worklist Smp#:	75
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

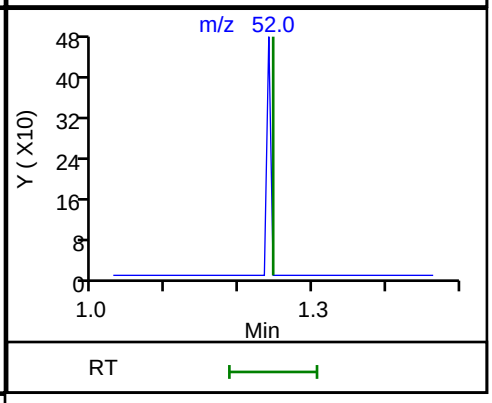
12 Chloromethane, CAS: 74-87-3

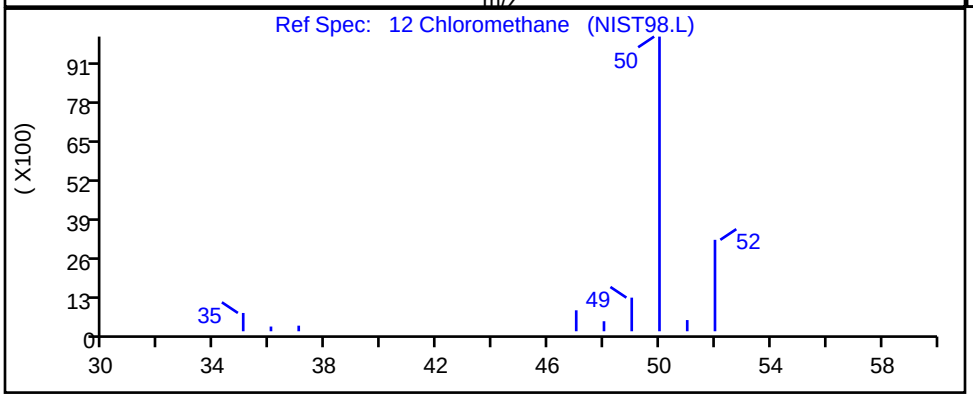
Processing Results











RT	Mass	Response	Amount
1.24	50.00	1674	0.116838
1.25	52.00	0	

Reviewer: kiwana, 10-Aug-2021 11:14:22

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.: 480-188016-1

SDG No.:

Client Sample ID: TB-080321 Lab Sample ID: 480-188016-12

Matrix: Water Lab File ID: S2129.D

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

Sample wt/vol: 5(mL) Date Analyzed: 08/11/2021 03:39

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.: 592370 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND	*+	1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: TB-080321 Lab Sample ID: 480-188016-12

Matrix: Water Lab File ID: S2129.D

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

Sample wt/vol: 5(mL) Date Analyzed: 08/11/2021 03:39

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.: 592370 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2129.D
Lims ID: 480-188016-A-12
Client ID: TB-080321
Sample Type: Client
Inject. Date: 11-Aug-2021 03:39:30 ALS Bottle#: 43 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-A-12
Misc. Info.: 480-0100343-014
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Aug-2021 10:49:35 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1631

First Level Reviewer: lapointec Date: 11-Aug-2021 10:49:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.999	4.999	0.000	98	125617	25.0	
* 2 Chlorobenzene-d5	82	7.968	7.962	0.006	85	242941	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	95	278960	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.434	4.433	0.001	58	178056	24.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	93	110114	25.3	
$ 5 Toluene-d8 (Surr)	98	6.496	6.501	0.000	94	632012	24.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.228	0.000	89	207594	24.6	
10 Dichlorodifluoromethane	85		1.088				ND	
12 Chloromethane	50		1.240				ND	
13 Vinyl chloride	62		1.319				ND	
14 Bromomethane	94		1.580				ND	
15 Chloroethane	64		1.641				ND	
17 Trichlorofluoromethane	101		1.860				ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292				ND	
22 1,1-Dichloroethene	96		2.304				ND	
23 Acetone	43		2.420				ND	U
26 Carbon disulfide	76		2.499				ND	U
27 Methyl acetate	43		2.700				ND	
30 Methylene Chloride	84		2.803				ND	7
32 Methyl tert-butyl ether	73		2.998				ND	
34 trans-1,2-Dichloroethene	96		3.010				ND	
39 1,1-Dichloroethane	63		3.418				ND	
45 cis-1,2-Dichloroethene	96		3.965				ND	
43 2-Butanone (MEK)	43		4.008				ND	
50 Chloroform	83		4.275				ND	U
52 Cyclohexane	56		4.379				ND	
51 1,1,1-Trichloroethane	97		4.379				ND	
55 Carbon tetrachloride	117		4.513				ND	
57 Benzene	78		4.725				ND	
58 1,2-Dichloroethane	62		4.805				ND	
62 Trichloroethene	95		5.334				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.443				ND	
65 1,2-Dichloropropane	63		5.577				ND	
68 Dichlorobromomethane	83		5.869				ND	
72 cis-1,3-Dichloropropene	75		6.283				ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435				ND	
74 Toluene	92		6.563				ND	
77 trans-1,3-Dichloropropene	75		6.855				ND	
79 1,1,2-Trichloroethane	83		7.037				ND	
81 Tetrachloroethene	166		7.080				ND	
80 2-Hexanone	43		7.274				ND	
83 Chlorodibromomethane	129		7.427				ND	
84 Ethylene Dibromide	107		7.524				ND	
87 Chlorobenzene	112		7.992				ND	
88 Ethylbenzene	91		8.090				ND	
90 m-Xylene & p-Xylene	106		8.211				ND	
91 o-Xylene	106		8.631				ND	
92 Styrene	104		8.668				ND	
95 Bromoform	173		8.911				ND	
94 Isopropylbenzene	105		9.020				ND	
97 1,1,2,2-Tetrachloroethane	83		9.452				ND	
111 1,3-Dichlorobenzene	146		10.322				ND	
113 1,4-Dichlorobenzene	146		10.414				ND	
116 1,2-Dichlorobenzene	146		10.773				ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521				ND	
119 1,2,4-Trichlorobenzene	180		12.196				ND	
S 124 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

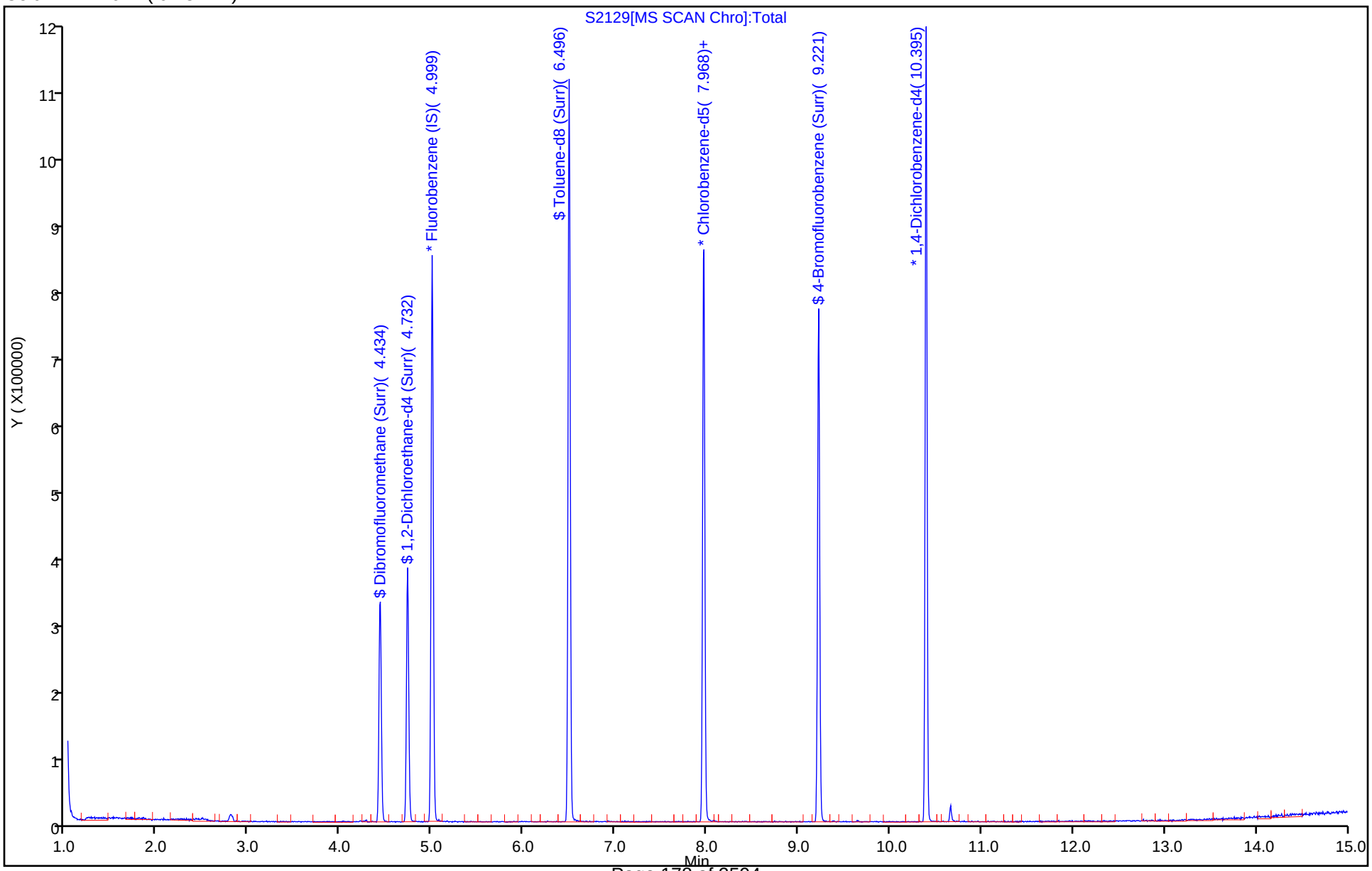
Report Date: 11-Aug-2021 10:49:35 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2129.D

Injection Date:	11-Aug-2021 03:39:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-A-12	Lab Sample ID:	480-188016-12	Worklist Smp#:	14
Client ID:	TB-080321				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	43
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



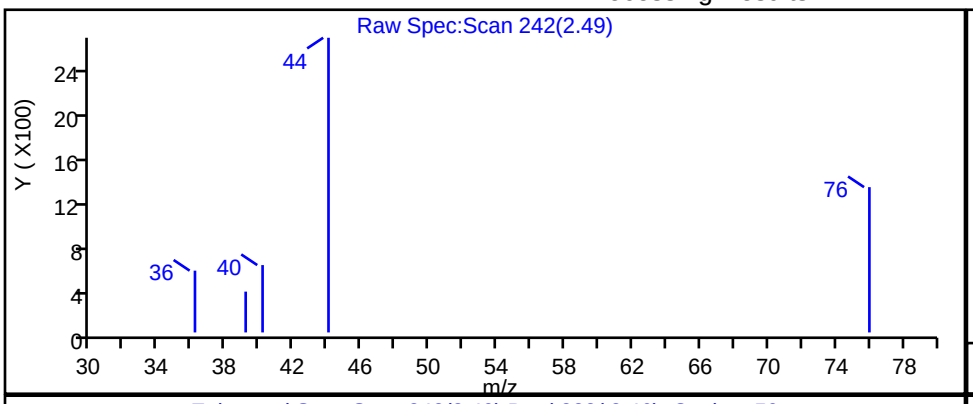
User Disabled Compound Report

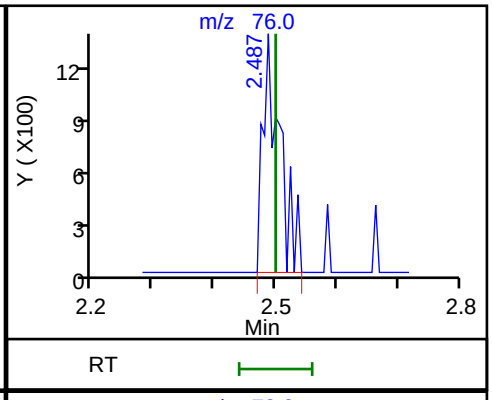
Eurofins TestAmerica, Buffalo

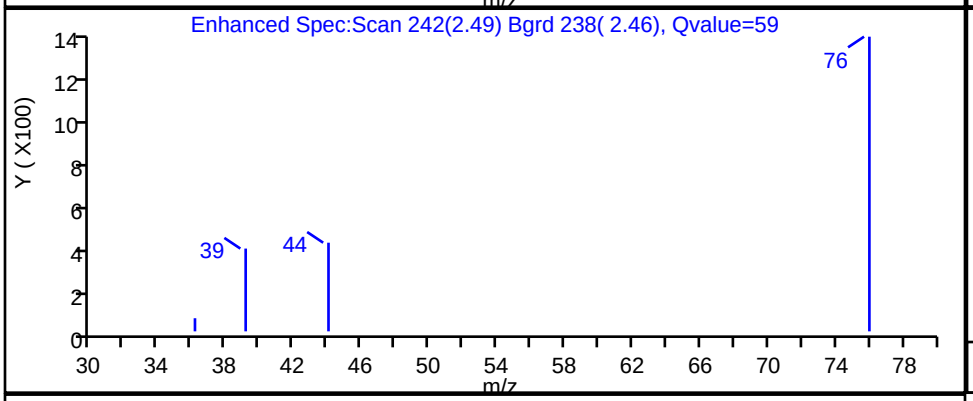
Data File:	\\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2129.D				
Injection Date:	11-Aug-2021 03:39:30	Instrument ID:	HP5973S		
Lims ID:	480-188016-A-12	Lab Sample ID:	480-188016-12		
Client ID:	TB-080321				
Operator ID:	LH/AK/AG	ALS Bottle#:	43	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

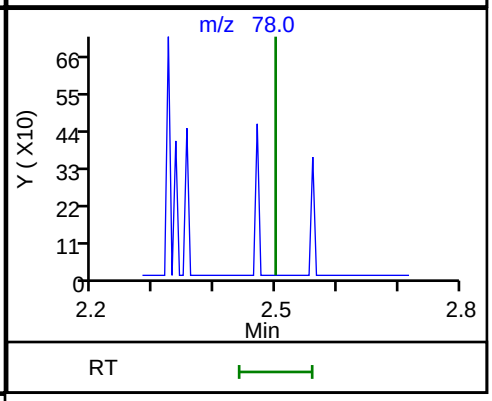
26 Carbon disulfide, CAS: 75-15-0

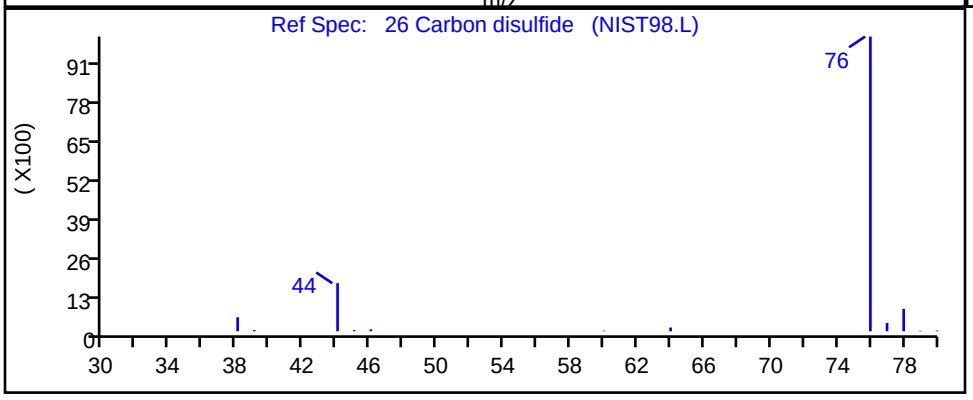
Processing Results











RT	Mass	Response	Amount
2.49	76.00	2539	0.103867
2.50	78.00	0	

Reviewer: lapointec, 11-Aug-2021 10:49:08

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-590807/6	S1603.D
Level 2	IC 480-590807/7	S1604.D
Level 3	IC 480-590807/8	S1605.D
Level 4	IC 480-590807/9	S1606.D
Level 5	IC 480-590807/10	S1607.D
Level 6	ICIS 480-590807/11	S1608.D
Level 7	IC 480-590807/12	S1609.D
Level 8	IC 480-590807/13	S1610.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.6636 1.9349	2.0680 1.9579	1.6329 1.6941	1.7078	1.5162	Ave		1.7719			0.1000	10.8		20.0			
Chloromethane	3.1190 2.5540	2.9345 2.4601	2.7278 2.3607	2.6441	2.5587	Ave		2.6698			0.1000	9.4		20.0			
Butadiene	2.0776 2.2992	2.5676 2.3000	2.1182 2.0316	2.1562	1.9888	Ave		2.1924				8.6		20.0			
Vinyl chloride	2.2503 2.2975	2.6955 2.2516	2.2544 2.0738	2.2151	2.1171	Ave		2.2694			0.1000	8.3		20.0			
Bromomethane	1.2605 1.2891	1.4450 1.3462	1.2991 1.2668	1.2005	1.3469	Ave		1.3068			0.1000	5.6		20.0			
Chloroethane	1.3534 1.3673	1.3102 1.3673	1.3041 1.2927	1.3517	1.3724	Ave		1.3399			0.1000	2.4		20.0			
Dichlorofluoromethane	2.9778 2.9840	3.4919 2.9719	2.8212 2.8295	2.8776	2.8881	Ave		2.9803				7.3		20.0			
Trichlorofluoromethane	2.1709 2.5781	2.4380 2.5928	2.1371 2.3439	2.1824	2.1656	Ave		2.3261			0.1000	8.2		20.0			
Ethyl ether	2.0003 1.6706	1.7140 1.6074	1.6228 1.6060	1.6338	1.6824	Ave		1.6922				7.7		20.0			
Acrolein	0.0972 0.0983	0.0980 0.0950	0.1049 0.0928	0.0961	0.0956	Ave		0.0973				3.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3316 1.5447	1.6050 1.5199	1.2194 1.4041	1.3578	1.3050	Ave		1.4109			0.1000	9.5		20.0			
1,1-Dichloroethene	1.4604 1.4621	1.6627 1.4284	1.2205 1.3880	1.3425	1.3837	Ave		1.4186			0.1000	8.9		20.0			
Acetone	0.9257 0.8125	0.9130 0.7569	0.8646 0.7872	0.7891	0.7752	Ave		0.8280			0.1000	7.8		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.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Iodomethane	2.9510 2.8292	3.0500 2.7350	2.5991 2.6466	2.6220	2.6332	Ave		2.7583				6.1		20.0			
Carbon disulfide	5.2481 5.0391	5.4375 4.9398	4.3862 4.8086	4.4765	4.5838	Ave		4.8649			0.1000	7.7		20.0			
Allyl chloride	+++++ 3.2222	3.8487 3.2084	2.8793 2.9727	2.8796	3.0496	Ave		3.1515				10.7		20.0			
Methyl acetate	2.1126 1.7636	1.7733 1.7186	1.7809 1.7779	1.7255	1.7557	Ave		1.8010			0.1000	7.1		20.0			
Methylene Chloride	3.7126 1.8743	2.6701 1.7527	2.0629 1.6946	1.9106	1.8161	Lin1	0.9673	1.7188			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1760 0.2245	0.1810 0.2148	0.1748 0.2440	0.1870	0.1947	Ave		0.1996				12.7		20.0			
Methyl tert-butyl ether	6.7521 5.7641	6.3945 5.6254	5.5495 5.6200	5.3800	5.7218	Ave		5.8509			0.1000	8.0		20.0			
trans-1,2-Dichloroethene	1.6716 1.7282	2.0350 1.7075	1.5281 1.6245	1.5930	1.6643	Ave		1.6940			0.1000	9.0		20.0			
Acrylonitrile	1.1106 0.9901	0.9900 0.9436	0.9665 0.9718	0.9694	1.0056	Ave		0.9935				5.1		20.0			
Hexane	2.4855 2.7214	2.6789 2.5821	2.2868 2.5184	2.4966	2.3766	Ave		2.5183				5.7		20.0			
1,1-Dichloroethane	3.6008 3.3010	3.2072 3.1486	2.9771 3.0956	3.0509	3.1640	Ave		3.1932			0.2000	6.0		20.0			
Vinyl acetate	2.8343 3.2332	2.4779 3.5337	2.6033 +++++	2.7490	2.8211	Ave		2.8932				12.7		20.0			
2,2-Dichloropropane	1.6636 1.5117	1.7198 1.4626	1.3281 1.3991	1.3953	1.4244	Ave		1.4881				9.2		20.0			
cis-1,2-Dichloroethene	2.0511 1.9115	2.1201 1.8159	1.7471 1.7545	1.8109	1.8627	Ave		1.8842			0.1000	7.2		20.0			
2-Butanone (MEK)	1.0802 1.1127	0.9493 1.0607	1.1196 1.1485	1.1018	1.0855	Ave		1.0823			0.1000	5.5		20.0			
Chlorobromomethane	1.1654 1.0754	1.1582 1.0209	0.9746 1.0012	1.0599	1.0289	Ave		1.0606				6.6		20.0			
Tetrahydrofuran	+++++ 0.7856	0.9141 0.7425	0.8618 0.7668	0.8891	0.8106	Ave		0.8244				7.9		20.0			
Chloroform	+++++ 2.9497	3.5257 2.8711	2.9068 2.8476	2.8817	2.9279	Ave		2.9872			0.2000	8.0		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.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	2.0522 2.3955	2.5387 2.3632	1.9617 2.3835	2.1277	2.1563	Ave		2.2474			0.1000	8.9		20.0			
Cyclohexane	3.5228 3.5439	3.7415 3.5021	3.0145 3.2888	3.1202	3.1274	Ave		3.3577			0.1000	7.7		20.0			
Carbon tetrachloride	1.5602 1.6399	1.5656 1.7280	1.2520 1.8466	1.2989	1.4201	Ave		1.5389			0.1000	13.4		20.0			
1,1-Dichloropropene	2.1556 2.2201	2.1655 2.1796	2.0538 2.1531	2.1269	2.1071	Ave		2.1452				2.3		20.0			
Benzene	6.7895 6.4885	6.7156 6.3741	6.0533 6.3723	6.3466	6.3670	Ave		6.4384			0.5000	3.6		20.0			
Isobutyl alcohol	+++++ 0.0731	0.0472 0.0811	0.0570 +++++	0.0536	0.0636	Lin1	-1.232	0.0779							0.9920		0.9900
1,2-Dichloroethane	3.1251 2.5233	2.7209 2.4930	2.7284 2.5046	2.5929	2.5062	Ave		2.6493			0.1000	8.1		20.0			
n-Heptane	2.8316 2.8871	2.9817 2.7758	2.6891 2.6804	2.7393	2.6686	Ave		2.7817				4.0		20.0			
Trichloroethene	1.7282 1.6855	1.7045 1.6645	1.6247 1.6272	1.5871	1.6082	Ave		1.6537			0.2000	3.0		20.0			
Methylcyclohexane	2.9230 3.1168	2.8695 3.0381	2.5917 2.9116	2.7048	2.6895	Ave		2.8556			0.1000	6.3		20.0			
1,2-Dichloropropane	1.7144 1.7117	1.6282 1.6557	1.7330 1.6782	1.6510	1.6624	Ave		1.6793			0.1000	2.2		20.0			
Dibromomethane	1.0410 1.0145	1.1345 1.0191	0.9727 1.0271	0.9913	1.0022	Ave		1.0253			0.1000	4.8		20.0			
1,4-Dioxane	+++++ 0.0107	0.0087 0.0088	0.0100 0.0088	0.0102	0.0087	Ave		0.0094				9.1		20.0			
Bromodichloromethane	1.6622 1.7662	1.5667 1.8173	1.5300 1.9634	1.6157	1.6553	Ave		1.6971			0.2000	8.5		20.0			
2-Chloroethyl vinyl ether	1.0080 1.0960	0.9404 1.1219	1.0725 1.1898	1.1100	1.1137	Ave		1.0815				7.1		20.0			
cis-1,3-Dichloropropene	2.0210 2.3214	1.9381 2.3804	2.1807 2.5381	2.1091	2.1607	Ave		2.2062			0.2000	8.9		20.0			
4-Methyl-2-pentanone (MIBK)	1.1562 1.1677	1.1206 1.1414	1.0812 1.1923	1.1551	1.1449	Ave		1.1449			0.1000	2.9		20.0			
Toluene	2.1142 2.1322	2.2924 2.0789	2.0219 2.0681	2.0108	2.0535	Ave		2.0965			0.4000	4.3		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	0.7645 0.9966	0.8430 1.0413	0.8436 1.1258	0.9348	0.9410	Ave		0.9363			0.1000	12.6		20.0			
Ethyl methacrylate	+++++ 0.7938	0.4759 0.8802	0.6091 +++++	0.6578	0.6958	Lin1	-0.528	0.8491							0.9950		0.9900
1,1,2-Trichloroethane	0.6751 0.5887	0.5526 0.5604	0.5455 0.5688	0.5827	0.5726	Ave		0.5808			0.1000	7.0		20.0			
Tetrachloroethene	0.9164 0.9309	0.9297 0.9118	0.8374 0.8961	0.8815	0.8685	Ave		0.8965			0.2000	3.6		20.0			
1,3-Dichloropropane	1.2500 1.1941	1.1593 1.1550	1.2081 1.2083	1.2409	1.1479	Ave		1.1954				3.3		20.0			
2-Hexanone	0.7032 0.7250	0.6412 0.7099	0.6867 0.7642	0.7256	0.7214	Ave		0.7096			0.1000	5.0		20.0			
Dibromochloromethane	0.5093 0.5688	0.4551 0.6205	0.4854 +++++	0.4797	0.5094	Ave		0.5183			0.1000	11.1		20.0			
1,2-Dibromoethane	0.6753 0.7379	0.6356 0.7126	0.6518 0.7635	0.6795	0.7058	Ave		0.6953				6.2		20.0			
Chlorobenzene	2.5490 2.4293	2.5674 2.3552	2.3316 2.4332	2.3883	2.3403	Ave		2.4243			0.5000	3.8		20.0			
Ethylbenzene	4.0707 4.0405	4.0546 3.9562	3.6854 4.0914	3.8546	3.7506	Ave		3.9380			0.1000	4.0		20.0			
1,1,1,2-Tetrachloroethane	0.6879 0.6771	0.6749 0.7307	0.5494 0.8110	0.5507	0.6002	Ave		0.6602				13.7		20.0			
m,p-Xylene	1.5720 1.6045	1.6448 1.5802	1.4895 1.6044	1.5193	1.5348	Ave		1.5687			0.1000	3.3		20.0			
o-Xylene	1.7010 1.6416	1.5922 1.5873	1.5006 1.6096	1.5807	1.5601	Ave		1.5966			0.3000	3.7		20.0			
Styrene	2.5845 2.6213	2.6519 2.5776	2.4153 2.7171	2.5395	2.4790	Ave		2.5733			0.3000	3.7		20.0			
Bromoform	+++++ 0.3185	0.2519 0.3496	0.2414 +++++	0.2561	0.2766	Lin1	-0.174	0.3362			0.1000				0.9940		0.9900
Isopropylbenzene	3.7558 3.9173	3.9249 3.9921	3.5119 3.9047	3.6405	3.6563	Ave		3.7879			0.1000	4.5		20.0			
Bromobenzene	0.9408 0.9623	0.9942 0.9648	0.9385 0.9495	0.9618	0.9371	Ave		0.9561				2.0		20.0			
1,1,2,2-Tetrachloroethane	0.8930 0.8977	0.8780 0.8949	0.8684 0.8967	0.9034	0.8832	Ave		0.8894			0.3000	1.3		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.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	4.1723 4.3640	4.1915 4.4362	3.9752 4.4190	4.1117	4.0641	Ave		4.2167				4.1		20.0			
1,2,3-Trichloropropane	0.3337 0.3045	0.2854 0.3078	0.3040 0.3038	0.3210	0.3136	Ave		0.3092				4.6		20.0			
trans-1,4-Dichloro-2-butene	0.2692 0.2735	0.2692 0.2762	0.2785 0.3088	0.2709	0.2742	Ave		0.2776				4.7		20.0			
2-Chlorotoluene	0.9641 0.9405	0.8676 0.9395	0.8442 0.9149	0.9207	0.9196	Ave		0.9139				4.3		20.0			
1,3,5-Trimethylbenzene	3.1558 3.3543	3.1326 3.4247	3.0156 3.4139	3.1259	3.1464	Ave		3.2212				4.8		20.0			
4-Chlorotoluene	0.9224 0.9274	0.8854 0.9528	0.9381 0.9299	0.9332	0.8709	Ave		0.9200				3.0		20.0			
tert-Butylbenzene	0.7066 0.7765	0.6772 0.7869	0.6313 0.7715	0.7379	0.7147	Ave		0.7253				7.4		20.0			
1,2,4-Trimethylbenzene	3.1673 3.3728	3.3916 3.4683	3.1993 3.4783	3.2893	3.2594	Ave		3.3283				3.5		20.0			
sec-Butylbenzene	3.9238 4.2576	3.9441 4.4021	3.6418 4.3647	3.9452	3.9119	Ave		4.0489				6.5		20.0			
1,3-Dichlorobenzene	2.1376 1.9315	1.9801 1.9431	1.8880 1.9147	1.8718	1.8164	Ave		1.9354			0.6000	4.9		20.0			
4-Isopropyltoluene	3.5592 3.9574	3.6529 4.0232	3.3716 3.9953	3.5313	3.4689	Ave		3.6950				7.0		20.0			
1,4-Dichlorobenzene	1.9599 1.9262	1.9380 1.9305	1.9400 1.9458	1.9019	1.8670	Ave		1.9262			0.5000	1.5		20.0			
n-Butylbenzene	3.1903 3.2273	3.0750 3.2868	2.9122 3.2577	2.9703	2.9561	Ave		3.1095				4.8		20.0			
1,2-Dichlorobenzene	2.1609 1.9315	2.1198 1.9453	1.8997 1.9200	1.8990	1.8761	Ave		1.9690			0.4000	5.5		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1284	0.0985 0.1548	0.1110 +++++	0.1046	0.1101	Ave		0.1179			0.0500	17.5		20.0			
1,2,4-Trichlorobenzene	1.8110 1.5183	1.6436 1.5210	1.3747 1.5132	1.4690	1.4777	Ave		1.5411			0.2000	8.6		20.0			
Hexachlorobutadiene	0.6238 0.6596	0.6223 0.6570	0.5917 0.6301	0.6005	0.5915	Ave		0.6221				4.3		20.0			
Naphthalene	4.4460 4.4212	4.1784 4.5441	4.0055 4.5777	4.0858	4.2722	Ave		4.3164				4.9		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	1.6263 1.5097	1.7031 1.5049	1.4262 1.4743	1.4120	1.4775	Ave		1.5168				6.6		20.0			
Dibromofluoromethane (Surr)	1.4762 1.4666	1.4577 1.4414	1.4172 1.4105	1.3993	1.4850	Ave		1.4442				2.2		20.0			
1,2-Dichloroethane-d4 (Surr)	0.8562 0.8638	0.8679 0.8449	0.8772 0.8664	0.8544	0.8956	Ave		0.8658				1.8		20.0			
Toluene-d8 (Surr)	2.6097 2.6217	2.7075 2.5861	2.6481 2.5875	2.6807	2.6534	Ave		2.6368				1.7		20.0			
4-Bromofluorobenzene (Surr)	0.8657 0.8641	0.8855 0.8487	0.8518 0.8762	0.8806	0.8715	Ave		0.8680				1.5		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-590807/6	S1603.D
Level 2	IC 480-590807/7	S1604.D
Level 3	IC 480-590807/8	S1605.D
Level 4	IC 480-590807/9	S1606.D
Level 5	IC 480-590807/10	S1607.D
Level 6	ICIS 480-590807/11	S1608.D
Level 7	IC 480-590807/12	S1609.D
Level 8	IC 480-590807/13	S1610.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	4585 279276	11077 573313	19053 1020016	50805	85696	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	8596 368628	15718 720362	31828 1421361	78659	144614	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	5726 331849	13753 673483	24715 1223214	64145	112408	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	6202 331605	14438 659318	26304 1248645	65898	119655	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3474 186066	7740 394194	15158 762738	35714	76127	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	3730 197346	7018 400364	15216 778355	40211	77569	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	8207 430693	18704 870240	32918 1703665	85606	163232	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	5983 372106	13059 759226	24936 1411254	64923	122397	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	5513 241125	9181 470691	18935 967004	48603	95087	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	1340 70932	2625 139135	6117 279444	14299	27025	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	3670 222957	8597 445063	14228 845425	40393	73758	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	4025 211038	8906 418277	14241 835734	39938	78208	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	12756	24452	50440	117372	219084	2.50	5.00	10.0	25.0	50.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

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
			586358	1108183	2369745			125	250	500		
Iodomethane	FB	Ave	8133 408356	16337 800872	30326 1593547	78001	148825	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	14464 727314	29125 1446487	51178 2895266	133171	259077	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Allyl chloride	FB	Ave	+++++ 465079	20615 939509	33596 1789850	85664	172363	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	11645 509084	18997 1006477	41560 2141020	102665	198464	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	10232 270534	14302 513244	24070 1020343	56837	102646	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	4850 324058	9696 628939	20391 1468835	55631	110068	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	18609 831961	34251 1647257	64752 3383835	160051	323396	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4607 249436	10900 500001	17830 978127	47389	94066	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	30608 1429113	53029 2763219	112769 5851262	288383	568343	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	6850 392800	14349 756104	26682 1516344	74272	134327	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	9924 476453	17179 921980	34737 1863883	90762	178830	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	15623 933322	26545 2069491	60752 +++++	163559	318891	1.00 50.0	2.00 100	4.00 +++++	10.0	20.0
2,2-Dichloropropane	FB	Ave	4585 218198	9212 428285	15496 842412	41510	80505	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	5653 275901	11356 531731	20385 1056387	53872	105278	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	14886 803035	25425 1553011	65318 3457649	163891	306765	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	3212 155216	6204 298932	11372 602797	31532	58151	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	+++++ 226783	9793 434863	20110 923402	52899	91629	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	+++++	18885	33917	85729	165486	+++++	1.00	2.00	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.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

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
			425739	840719	1714567			25.0	50.0	100		
1,1,1-Trichloroethane	FB	Ave	5656 345761	13598 691995	22889 1435142	63296	121874	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	9709 511505	20041 1025513	35174 1980194	92824	176757	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	4300 236696	8386 505994	14609 1111831	38640	80265	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	5941 320434	11599 638234	23964 1296403	63274	119093	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	18712 936516	35971 1866485	70630 3836816	188806	359860	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Lin1	+++++ 263690	6327 593589	16629 +++++	39837	89855	+++++ 625	25.0 1250	50.0 +++++	125	250
1,2-Dichloroethane	FB	Ave	8613 364201	14574 730017	31835 1508051	77136	141648	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	7804 416703	15971 812814	31377 1613896	81491	150831	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	4763 243274	9130 487412	18957 979768	47214	90896	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	8056 449859	15370 889620	30240 1753071	80466	152009	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	4725 247064	8721 484831	20221 1010474	49115	93958	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	2869 146430	6077 298424	11350 618415	29491	56646	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 61568	1736 104596	4765 221858	12104	20027	+++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	4581 254929	8392 532153	17852 1182157	48066	93555	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	2778 158188	5037 328524	12514 716393	33020	62945	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	5570 335059	10381 697046	25444 1528198	62744	122121	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	31102	56086	129389	344014	659435	2.50	5.00	10.0	25.0	50.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

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
			1677866	3401485	7492449			125	250	500		
Toluene	CBNZ d5	Ave	11374 612754	22946 1239037	48392 2599222	119771	236563	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	4113 286400	8438 620634	20191 1414889	55682	108398	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Lin1	+++++ 228133	4764 524610	14578 +++++	39178	80159	+++++ 25.0	1.00 50.0	2.00 +++++	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3632 169184	5531 333987	13056 714816	34710	65961	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	4930 267520	9306 543472	20043 1126157	52503	100048	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	6725 343144	11604 688386	28914 1518542	73912	132237	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	18916 1041690	32090 2115413	82171 4801990	216082	415507	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	2740 163456	4555 369807	11618 +++++	28570	58687	0.500 25.0	1.00 50.0	2.00 +++++	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3633 212055	6362 424719	15600 959593	40474	81304	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chlorobenzene	CBNZ d5	Ave	13713 698118	25699 1403706	55803 3058000	142254	269601	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	21900 1161158	40585 2357949	88206 5142109	229593	432057	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3701	6755	13149	32799	69137	0.500	1.00	2.00	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.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

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
			194586	435504	1019285			25.0	50.0	100		
m,p-Xylene	CBNZ d5	Ave	8457 461099	16464 941804	35650 2016449	90497	176807	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	9151 471746	15937 946043	35915 2022954	94152	179718	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	13904 753316	26544 1536251	57807 3414847	151259	285572	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Lin1	+++++ 91543	2521 208357	5777 +++++	15253	31867	+++++ 25.0	1.00 50.0	2.00 +++++	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	23186 1270380	45655 2606608	92454 5618976	244057	474783	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	5808 312081	11564 629972	24707 1366349	64477	121692	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5513 291116	10213 584311	22861 1290351	60564	114683	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	25757 1415237	48756 2896555	104651 6359027	275645	527737	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2060 98734	3320 200957	8002 437162	21518	40718	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1662 88681	3131 180354	7332 444398	18160	35608	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	5952 305016	10092 613458	22224 1316548	61720	119408	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19482	36439	79389	209555	408569	0.500	1.00	2.00	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.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

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
			1087807	2236147	4912685			25.0	50.0	100		
4-Chlorotoluene	DCBd 4	Ave	5694	10299	24696	62559	113093	0.500	1.00	2.00	5.00	10.0
			300747	622112	1338215			25.0	50.0	100		
tert-Butylbenzene	DCBd 4	Ave	4362	7877	16619	49467	92803	0.500	1.00	2.00	5.00	10.0
			251816	513809	1110271			25.0	50.0	100		
1,2,4-Trimethylbenzene	DCBd 4	Ave	19553	39451	84226	220512	423249	0.500	1.00	2.00	5.00	10.0
			1093788	2264575	5005419			25.0	50.0	100		
sec-Butylbenzene	DCBd 4	Ave	24223	45878	95875	264482	507972	0.500	1.00	2.00	5.00	10.0
			1380726	2874309	6280917			25.0	50.0	100		
1,3-Dichlorobenzene	DCBd 4	Ave	13196	23033	49704	125480	235862	0.500	1.00	2.00	5.00	10.0
			626376	1268739	2755359			25.0	50.0	100		
4-Isopropyltoluene	DCBd 4	Ave	21972	42491	88761	236734	450453	0.500	1.00	2.00	5.00	10.0
			1283381	2626932	5749433			25.0	50.0	100		
1,4-Dichlorobenzene	DCBd 4	Ave	12099	22543	51074	127502	242444	0.500	1.00	2.00	5.00	10.0
			624666	1260495	2800025			25.0	50.0	100		
n-Butylbenzene	DCBd 4	Ave	19695	35768	76667	199125	383864	0.500	1.00	2.00	5.00	10.0
			1046627	2146068	4688004			25.0	50.0	100		
1,2-Dichlorobenzene	DCBd 4	Ave	13340	24658	50011	127305	243625	0.500	1.00	2.00	5.00	10.0
			626381	1270185	2763007			25.0	50.0	100		
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++	1146	2923	7011	14298	+++++	1.00	2.00	5.00	10.0
			41639	101103	+++++			25.0	50.0	+++++		
1,2,4-Trichlorobenzene	DCBd 4	Ave	11180	19118	36190	98480	191882	0.500	1.00	2.00	5.00	10.0
			492387	993106	2177608			25.0	50.0	100		
Hexachlorobutadiene	DCBd 4	Ave	3851	7239	15576	40260	76810	0.500	1.00	2.00	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.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

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
			213904	428951	906788			25.0	50.0	100		
Naphthalene	DCBd 4	Ave	27447	48603	105451	273904	554759	0.500	1.00	2.00	5.00	10.0
			1433795	2967027	6587418			25.0	50.0	100		
1,2,3-Trichlorobenzene	DCBd 4	Ave	10040	19811	37546	94659	191864	0.500	1.00	2.00	5.00	10.0
			489584	982589	2121626			25.0	50.0	100		
Dibromofluoromethane (Surr)	FB	Ave	203417	195198	206702	208144	209823	25.0	25.0	25.0	25.0	25.0
			211682	211035	212324			25.0	25.0	25.0		
1,2-Dichloroethane-d4 (Surr)	FB	Ave	117987	116214	127946	127093	126541	25.0	25.0	25.0	25.0	25.0
			124670	123707	130410			25.0	25.0	25.0		
Toluene-d8 (Surr)	CBNZ d5	Ave	701987	677522	792235	798367	764163	25.0	25.0	25.0	25.0	25.0
			753418	770668	812986			25.0	25.0	25.0		
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	232877	221575	254828	262245	250982	25.0	25.0	25.0	25.0	25.0
			248330	252915	275305			25.0	25.0	25.0		

Curve Type Legend
Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-590807/6	S1603.D
Level 2	IC 480-590807/7	S1604.D
Level 3	IC 480-590807/8	S1605.D
Level 4	IC 480-590807/9	S1606.D
Level 5	IC 480-590807/10	S1607.D
Level 6	ICIS 480-590807/11	S1608.D
Level 7	IC 480-590807/12	S1609.D
Level 8	IC 480-590807/13	S1610.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Dichlorodifluoromethane	-6.1						30					
Chloromethane	16.8						30					
Butadiene	-5.2						30					
Vinyl chloride	-0.8						30					
Bromomethane	-3.5						30					
Chloroethane	1.0						30					
Dichlorofluoromethane	-0.1						30					
Trichlorofluoromethane	-6.7						30					
Ethyl ether	18.2						30					
Acrolein	0.0						30					
1,1,2-Trichloro-1,2,2-trifluoroethane	-5.6						30					
1,1-Dichloroethene	3.0						30					
Acetone	11.8						30					
Iodomethane	7.0						30					
Carbon disulfide	7.9						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Allyl chloride	+++++	22.1						30				
Methyl acetate	17.3						30					
Methylene Chloride	3.4						30					
2-Methyl-2-propanol	-11.8						30					
Methyl tert-butyl ether	15.4						30					
trans-1,2-Dichloroethene	-1.3						30					
Acrylonitrile	11.8						30					
Hexane	-1.3						30					
1,1-Dichloroethane	12.8						30					
Vinyl acetate	-2.0	+++++					30					
2,2-Dichloropropane	11.8						30					
cis-1,2-Dichloroethene	8.9						30					
2-Butanone (MEK)	-0.2						30					
Chlorobromomethane	9.9						30					
Tetrahydrofuran	+++++	10.9						30				
Chloroform	+++++	18.0						30				
1,1,1-Trichloroethane	-8.7						30					
Cyclohexane	4.9						30					
Carbon tetrachloride	1.4						30					
1,1-Dichloropropene	0.5						30					
Benzene	5.5						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
Isobutyl alcohol	+++++	23.9 +++++						30				
1,2-Dichloroethane	18.0						30					
n-Heptane	1.8						30					
Trichloroethene	4.5						30					
Methylcyclohexane	2.4						30					
1,2-Dichloropropane	2.1						30					
Dibromomethane	1.5						30					
1,4-Dioxane	+++++	-7.7						30				
Bromodichloromethane	-2.1						30					
2-Chloroethyl vinyl ether	-6.8						30					
cis-1,3-Dichloropropene	-8.4						30					
4-Methyl-2-pentanone (MIBK)	1.0						30					
Toluene	0.8						30					
trans-1,3-Dichloropropene	-18.3						30					
Ethyl methacrylate	+++++	18.2 +++++						30				
1,1,2-Trichloroethane	16.2						30					
Tetrachloroethene	2.2						30					
1,3-Dichloropropane	4.6						30					
2-Hexanone	-0.9						30					
Dibromochloromethane	-1.7	+++++					30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
1,2-Dibromoethane	-2.9						30					
Chlorobenzene	5.1						30					
Ethylbenzene	3.4						30					
1,1,1,2-Tetrachloroethane	4.2						30					
m,p-Xylene	0.2						30					
o-Xylene	6.5						30					
Styrene	0.4						30					
Bromoform	+++++	26.6 +++++						30				
Isopropylbenzene	-0.8						30					
Bromobenzene	-1.6						30					
1,1,2,2-Tetrachloroethane	0.4						30					
N-Propylbenzene	-1.1						30					
1,2,3-Trichloropropane	7.9						30					
trans-1,4-Dichloro-2-butene	-3.0						30					
2-Chlorotoluene	5.5						30					
1,3,5-Trimethylbenzene	-2.0						30					
4-Chlorotoluene	0.3						30					
tert-Butylbenzene	-2.6						30					
1,2,4-Trimethylbenzene	-4.8						30					
sec-Butylbenzene	-3.1						30					
1,3-Dichlorobenzene	10.4						30					

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1 Analy Batch No.: 590807

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/28/2021 17:50 Calibration End Date: 07/28/2021 20:32 Calibration ID: 42180

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 # LVL 7 #	LVL 2 # LVL 8 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1 LVL 7	LVL 2 LVL 8	LVL 3	LVL 4	LVL 5	LVL 6
4-Isopropyltoluene	-3.7						30					
1,4-Dichlorobenzene	1.7						30					
n-Butylbenzene	2.6						30					
1,2-Dichlorobenzene	9.7						30					
1,2-Dibromo-3-Chloropropane	+++++	-16.4 +++++						30				
1,2,4-Trichlorobenzene	17.5						30					
Hexachlorobutadiene	0.3						30					
Naphthalene	3.0						30					
1,2,3-Trichlorobenzene	7.2						30					
Dibromofluoromethane (Surr)	2.2						30					
1,2-Dichloroethane-d4 (Surr)	-1.1						30					
Toluene-d8 (Surr)	-1.0						30					
4-Bromofluorobenzene (Surr)	-0.3						30					

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 28-Jul-2021 17:50:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0100106-006
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:44:29 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 10:03:17

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	4.999	4.999	0.000	98	137802	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	85	268993	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	93	308668	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.427	0.000	57	203417	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.725	0.007	92	117987	25.0	24.7	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	91	701987	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	232877	25.0	24.9	
10 Dichlorodifluoromethane	85	1.081	1.087	-0.006	44	4585	0.5000	0.4694	
12 Chloromethane	50	1.240	1.240	0.000	82	8596	0.5000	0.5841	
13 Vinyl chloride	62	1.319	1.319	0.000	13	6202	0.5000	0.4958	
151 Butadiene	54	1.319	1.319	0.000	0	5726	0.5000	0.4738	M
14 Bromomethane	94	1.556	1.574	-0.018	29	3474	0.5000	0.4823	M
15 Chloroethane	64	1.635	1.641	-0.006	41	3730	0.5000	0.5050	M
16 Dichlorofluoromethane	67	1.842	1.842	0.000	46	8207	0.5000	0.4996	
17 Trichlorofluoromethane	101	1.836	1.854	-0.018	16	5983	0.5000	0.4666	
18 Ethyl ether	59	2.097	2.091	0.006	0	5513	0.5000	0.5911	M
20 Acrolein	56	2.274	2.262	0.012	30	1340	2.50	2.50	M
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.298	2.292	0.006	11	3670	0.5000	0.4719	
22 1,1-Dichloroethene	96	2.298	2.304	-0.006	72	4025	0.5000	0.5148	
23 Acetone	43	2.414	2.414	0.000	0	12756	2.50	2.79	M
25 Iodomethane	142	2.444	2.456	-0.012	72	8133	0.5000	0.5349	
26 Carbon disulfide	76	2.481	2.493	-0.012	70	14464	0.5000	0.5394	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	78	11359	0.5000	0.6539	
27 Methyl acetate	43	2.700	2.700	0.000	0	11645	1.00	1.17	M
30 Methylene Chloride	84	2.791	2.797	-0.006	78	10232	0.5000	0.5172	
31 2-Methyl-2-propanol	59	2.973	2.967	0.006	52	4850	5.00	4.41	M
32 Methyl tert-butyl ether	73	2.998	2.992	0.006	74	18609	0.5000	0.5770	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	57	4607	0.5000	0.4934	
33 Acrylonitrile	53	3.071	3.071	0.000	99	30608	5.00	5.59	
35 Hexane	57	3.192	3.198	-0.006	82	6850	0.5000	0.4935	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.417	3.417	0.000	48	9924	0.5000	0.5638	
37 Vinyl acetate	43	3.478	3.478	0.000	91	15623	1.00	0.9796	
44 2,2-Dichloropropane	77	3.929	3.922	0.006	40	4585	0.5000	0.5590	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	36	5653	0.5000	0.5443	
43 2-Butanone (MEK)	43	4.014	4.001	0.013	93	14886	2.50	2.50	
48 Chlorobromomethane	128	4.184	4.196	-0.012	70	3212	0.5000	0.5494	
49 Tetrahydrofuran	42	4.214	4.208	0.006	83	6872	1.00	1.51	
50 Chloroform	83	4.275	4.275	0.000	62	10557	0.5000	0.6411	
51 1,1,1-Trichloroethane	97	4.373	4.379	-0.006	41	5656	0.5000	0.4566	
52 Cyclohexane	56	4.379	4.379	0.000	67	9709	0.5000	0.5246	
55 Carbon tetrachloride	117	4.506	4.513	-0.006	46	4300	0.5000	0.5069	
54 1,1-Dichloropropene	75	4.519	4.525	-0.006	40	5941	0.5000	0.5024	
57 Benzene	78	4.732	4.725	0.007	43	18712	0.5000	0.5273	
53 Isobutyl alcohol	43	4.786	4.774	0.012	35	3524	12.5	24.0	
58 1,2-Dichloroethane	62	4.798	4.798	0.000	45	8613	0.5000	0.5898	
59 n-Heptane	43	4.908	4.914	-0.006	70	7804	0.5000	0.5090	M
62 Trichloroethene	95	5.328	5.334	-0.006	57	4763	0.5000	0.5225	
64 Methylcyclohexane	83	5.437	5.443	-0.006	60	8056	0.5000	0.5118	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	56	4725	0.5000	0.5104	
67 Dibromomethane	93	5.717	5.711	0.006	60	2869	0.5000	0.5076	
66 1,4-Dioxane	88	5.723	5.717	0.006	0	544	10.0	5.38	M
68 Dichlorobromomethane	83	5.875	5.869	0.006	28	4581	0.5000	0.4897	
69 2-Chloroethyl vinyl ether	63	6.161	6.155	0.006	0	2778	0.5000	0.4660	M
72 cis-1,3-Dichloropropene	75	6.289	6.283	0.006	23	5570	0.5000	0.4580	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	87	31102	2.50	2.52	
74 Toluene	92	6.557	6.557	0.000	70	11374	0.5000	0.5042	
77 trans-1,3-Dichloropropene	75	6.849	6.849	0.000	0	4113	0.5000	0.4083	M
75 Ethyl methacrylate	69	6.903	6.903	0.000	0	3650	0.5000	1.02	M
79 1,1,2-Trichloroethane	83	7.043	7.037	0.006	15	3632	0.5000	0.5812	
81 Tetrachloroethene	166	7.080	7.080	0.000	50	4930	0.5000	0.5111	
82 1,3-Dichloropropane	76	7.189	7.195	-0.006	55	6725	0.5000	0.5228	
80 2-Hexanone	43	7.274	7.268	0.006	88	18916	2.50	2.48	
83 Chlorodibromomethane	129	7.420	7.427	-0.007	1	2740	0.5000	0.4913	
84 Ethylene Dibromide	107	7.518	7.518	0.000	41	3633	0.5000	0.4856	
87 Chlorobenzene	112	7.992	7.992	0.000	85	13713	0.5000	0.5257	
88 Ethylbenzene	91	8.090	8.090	0.000	82	21900	0.5000	0.5169	
89 1,1,1,2-Tetrachloroethane	131	8.090	8.096	-0.006	3	3701	0.5000	0.5210	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	85	8457	0.5000	0.5010	
91 o-Xylene	106	8.631	8.631	0.000	78	9151	0.5000	0.5327	
92 Styrene	104	8.668	8.668	0.000	69	13904	0.5000	0.5022	
95 Bromoform	173	8.911	8.911	0.000	0	1127	0.5000	0.8283	M
94 Isopropylbenzene	105	9.020	9.020	0.000	73	23186	0.5000	0.4958	
101 Bromobenzene	156	9.367	9.367	0.000	72	5808	0.5000	0.4920	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	20	5513	0.5000	0.5020	
99 N-Propylbenzene	91	9.465	9.465	0.000	84	25757	0.5000	0.4947	
100 1,2,3-Trichloropropane	110	9.471	9.477	-0.006	20	2060	0.5000	0.5396	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	1	1662	0.5000	0.4850	
103 2-Chlorotoluene	126	9.562	9.562	0.000	85	5952	0.5000	0.5275	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	75	19482	0.5000	0.4899	
105 4-Chlorotoluene	126	9.684	9.684	0.000	61	5694	0.5000	0.5013	
106 tert-Butylbenzene	134	9.976	9.976	0.000	68	4362	0.5000	0.4871	
107 1,2,4-Trimethylbenzene	105	10.036	10.036	0.000	68	19553	0.5000	0.4758	

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	10.195	10.195	0.000	54	24223	0.5000	0.4846	
111 1,3-Dichlorobenzene	146	10.328	10.322	0.006	75	13196	0.5000	0.5522	
110 4-Isopropyltoluene	119	10.347	10.341	0.006	60	21972	0.5000	0.4816	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	39	12099	0.5000	0.5087	
115 n-Butylbenzene	91	10.730	10.736	-0.006	72	19695	0.5000	0.5130	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.001	60	13340	0.5000	0.5487	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	0	512	0.5000	0.3517	M
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	49	11180	0.5000	0.5876	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	37	3851	0.5000	0.5014	
121 Naphthalene	128	12.409	12.409	0.000	72	27447	0.5000	0.5150	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	66	10040	0.5000	0.5361	
S 123 Total BTEX	1				0			2.58	
S 126 1,3-Dichloropropene, Total	1				0			0.8663	
S 125 1,2-Dichloroethene, Total	1				0			1.04	
S 124 Xylenes, Total	1				0			1.03	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00465	Amount Added:	0.50	Units: uL	
8260 CORP mix_00211	Amount Added:	0.50	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

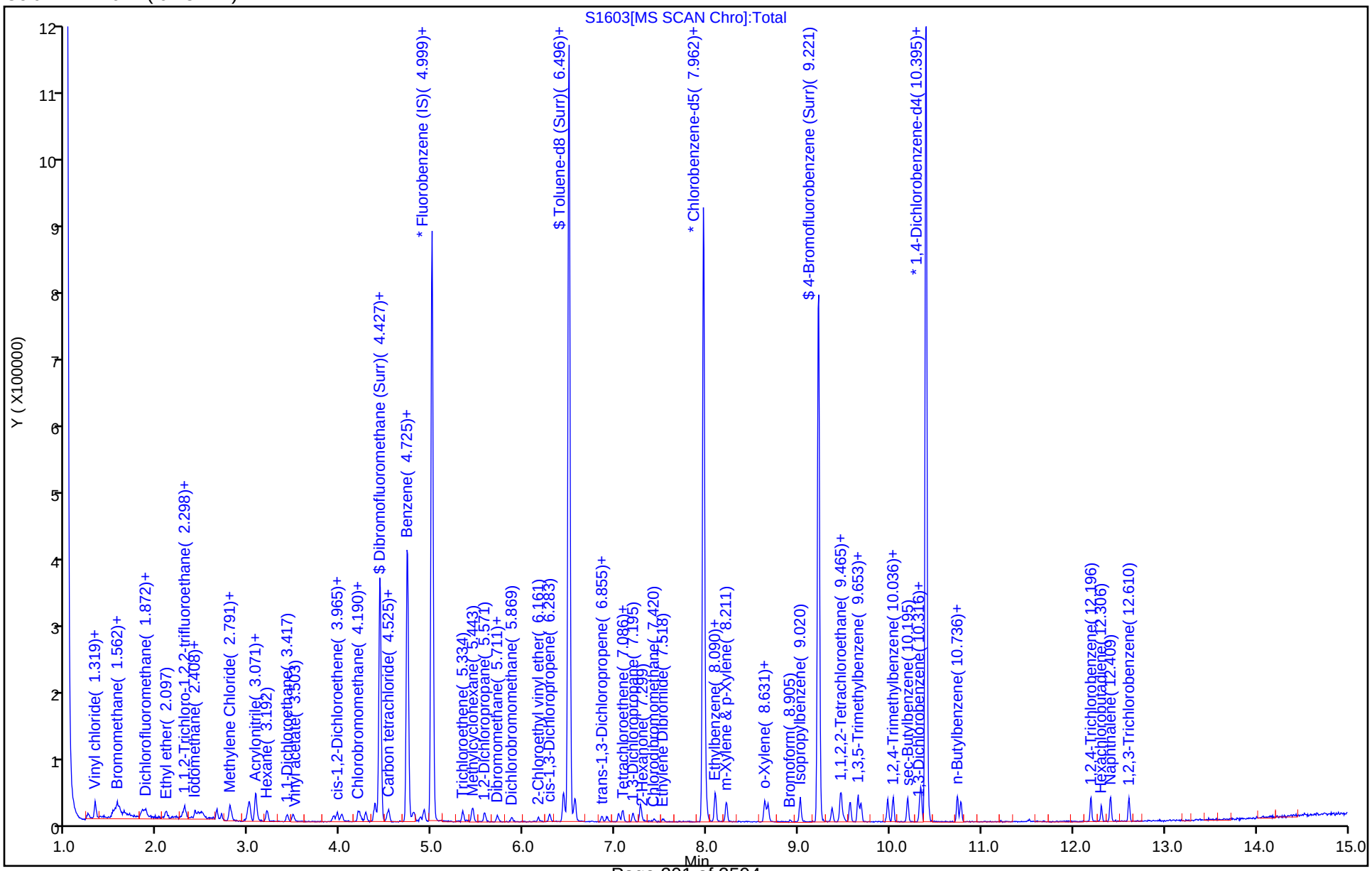
Report Date: 29-Jul-2021 10:44:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D

Injection Date:	28-Jul-2021 17:50:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 0.5			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

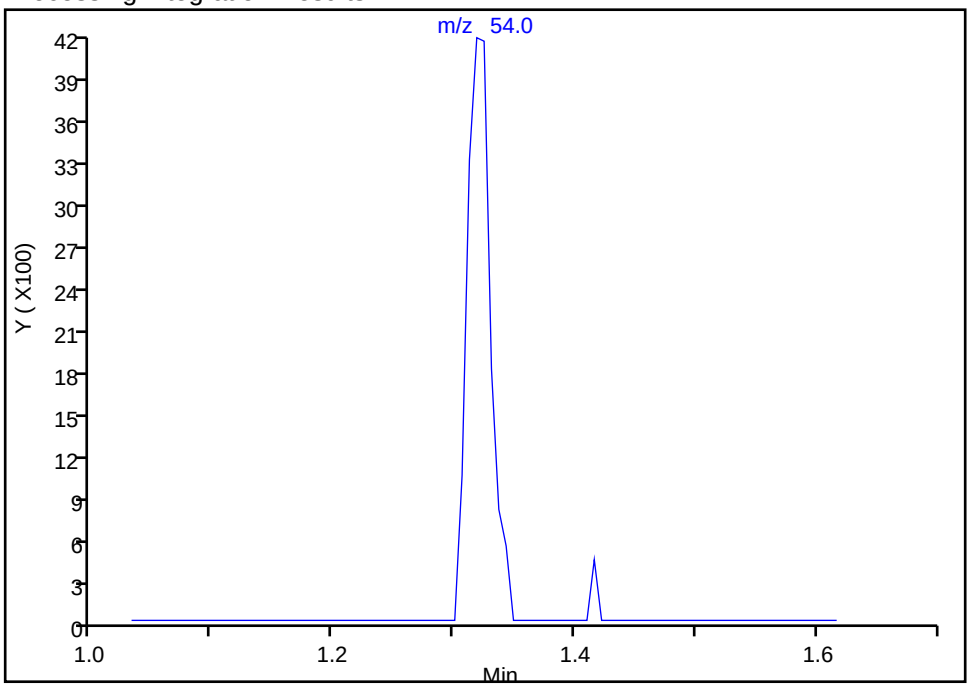
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D
Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

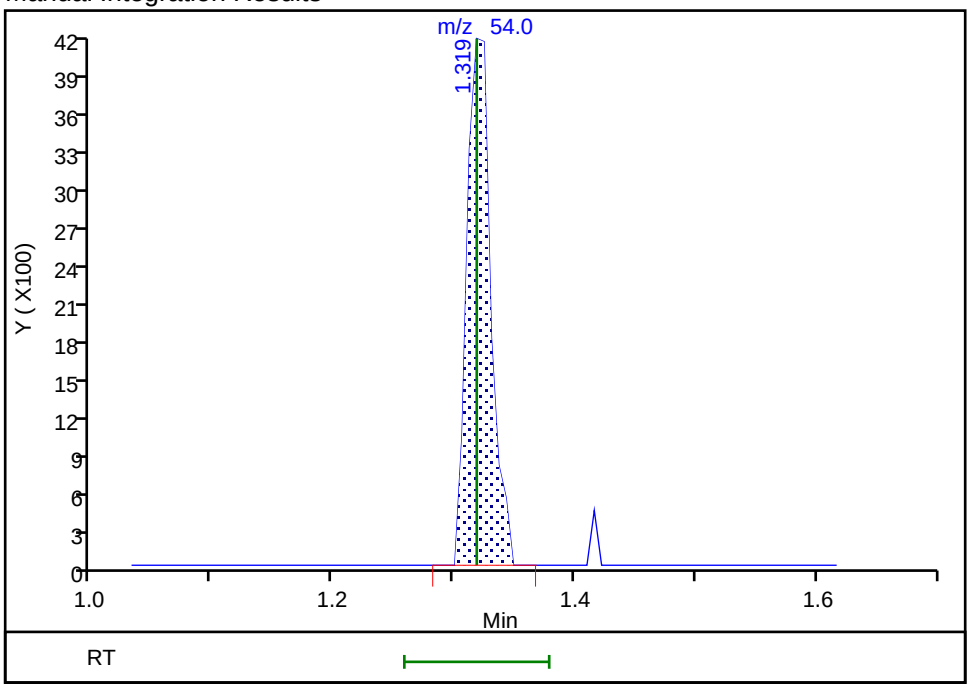
Not Detected
Expected RT: 1.32

Processing Integration Results



Manual Integration Results

RT: 1.32
Area: 5726
Amount: 0.473825
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 09:59:01
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

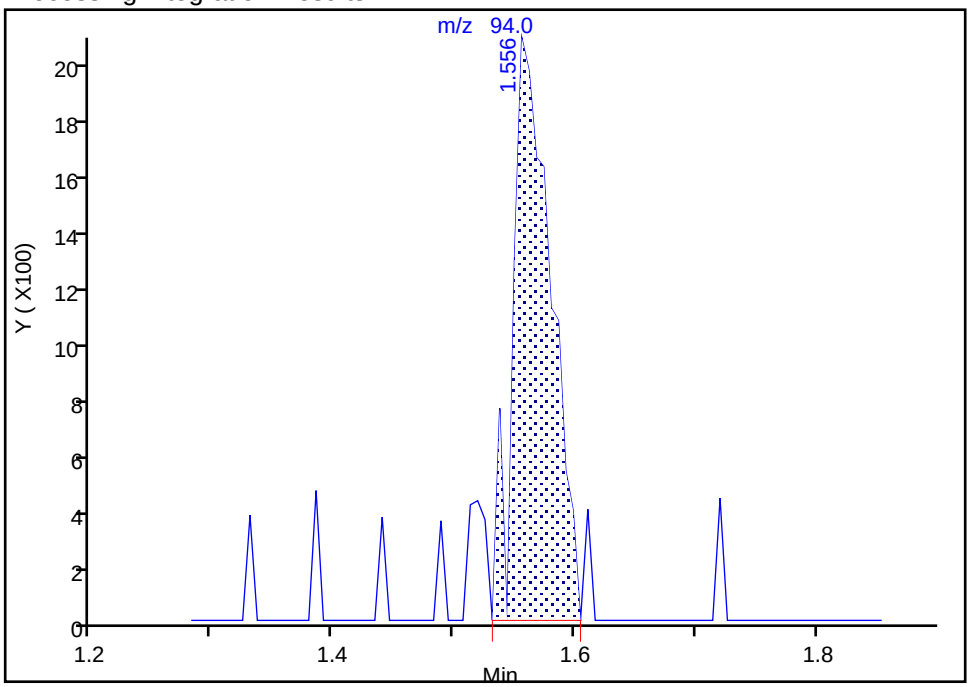
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D
Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

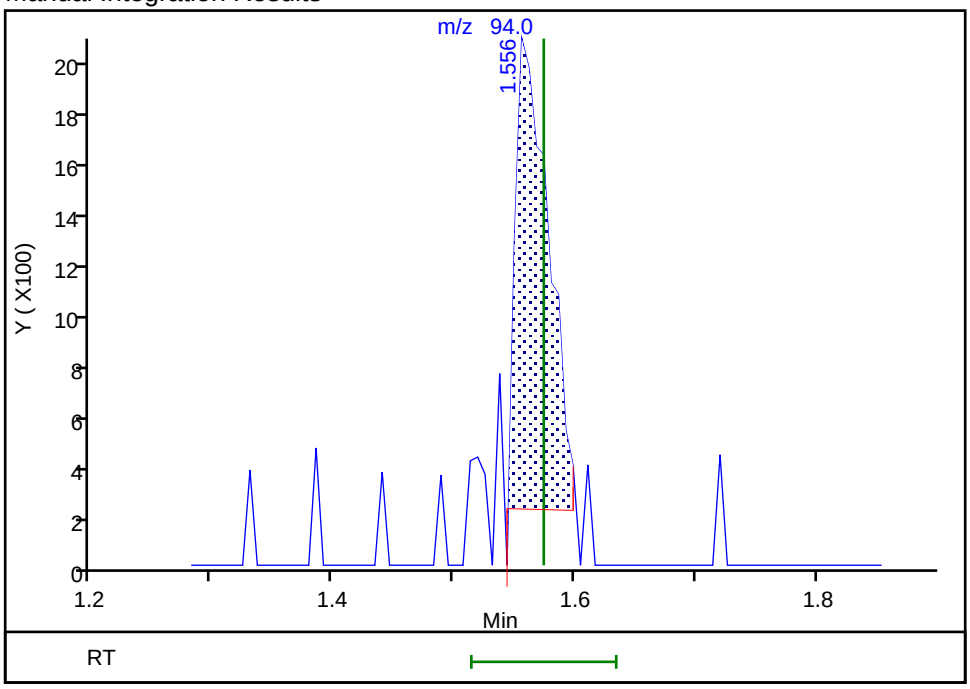
Processing Integration Results

RT: 1.56
Area: 4556
Amount: 0.595977
Amount Units: ug/L



Manual Integration Results

RT: 1.56
Area: 3474
Amount: 0.482299
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 09:59:29
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

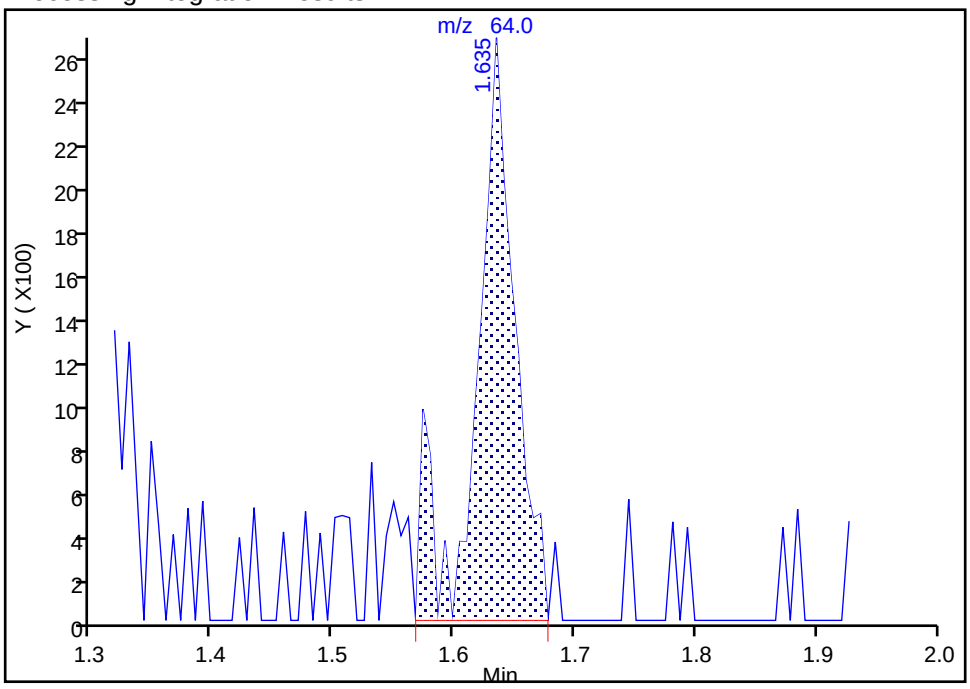
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D
Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

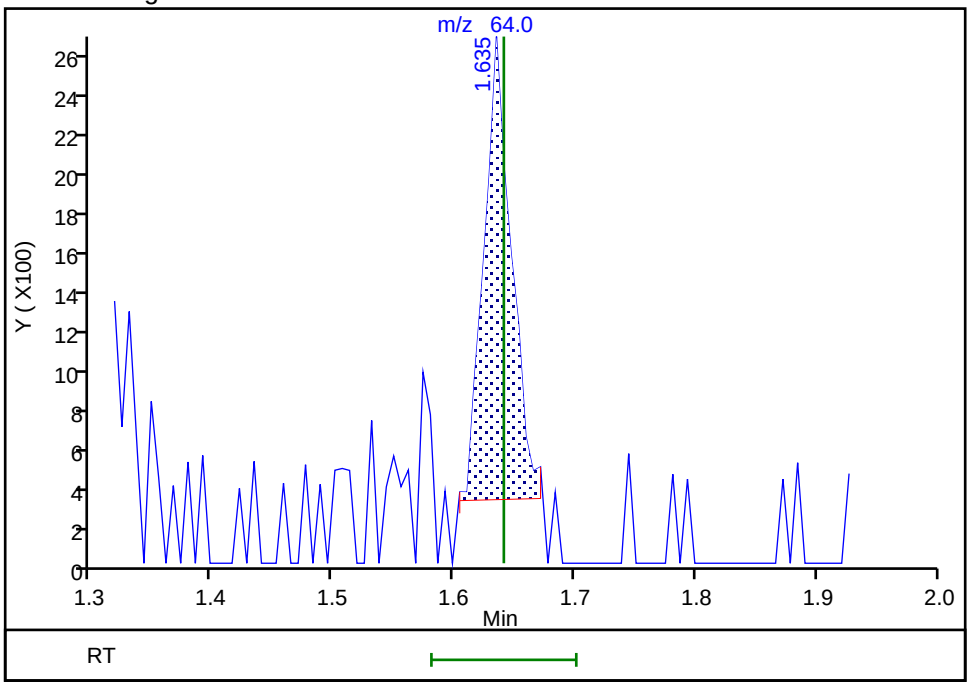
Processing Integration Results

RT: 1.63
Area: 5904
Amount: 0.452790
Amount Units: ug/L



Manual Integration Results

RT: 1.63
Area: 3730
Amount: 0.505042
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 09:59:43
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

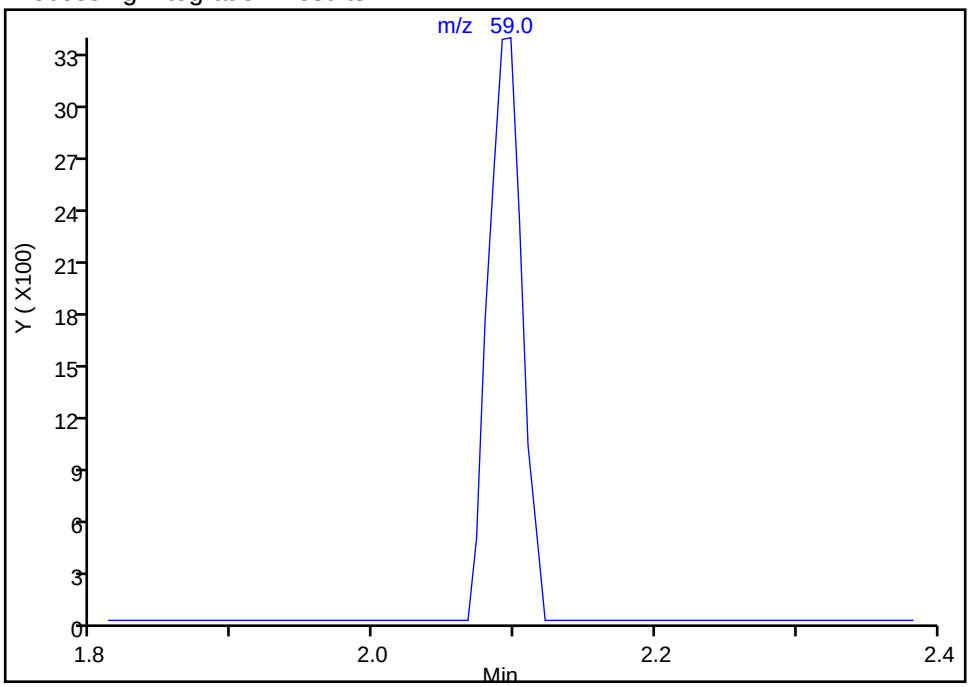
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Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

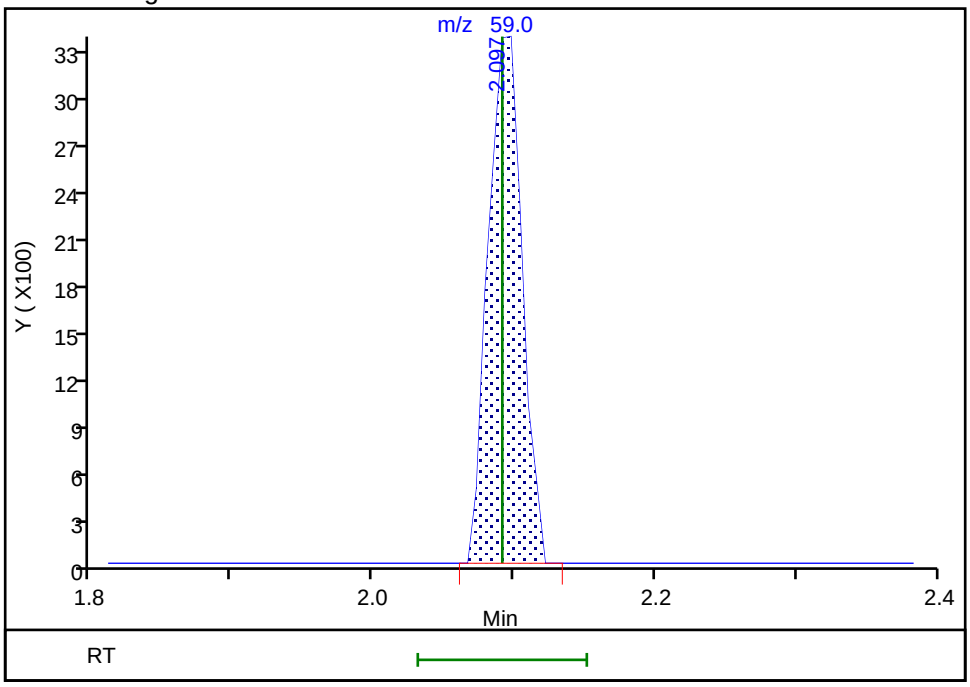
Not Detected
Expected RT: 2.09

Processing Integration Results



Manual Integration Results

RT: 2.10
Area: 5513
Amount: 0.591055
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 09:59:51
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

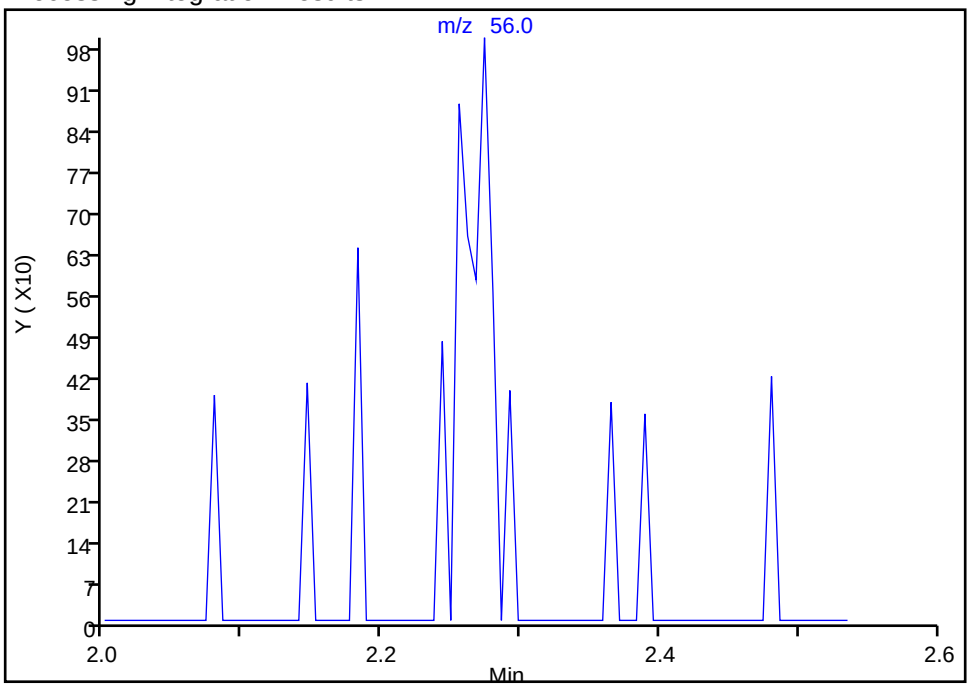
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Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

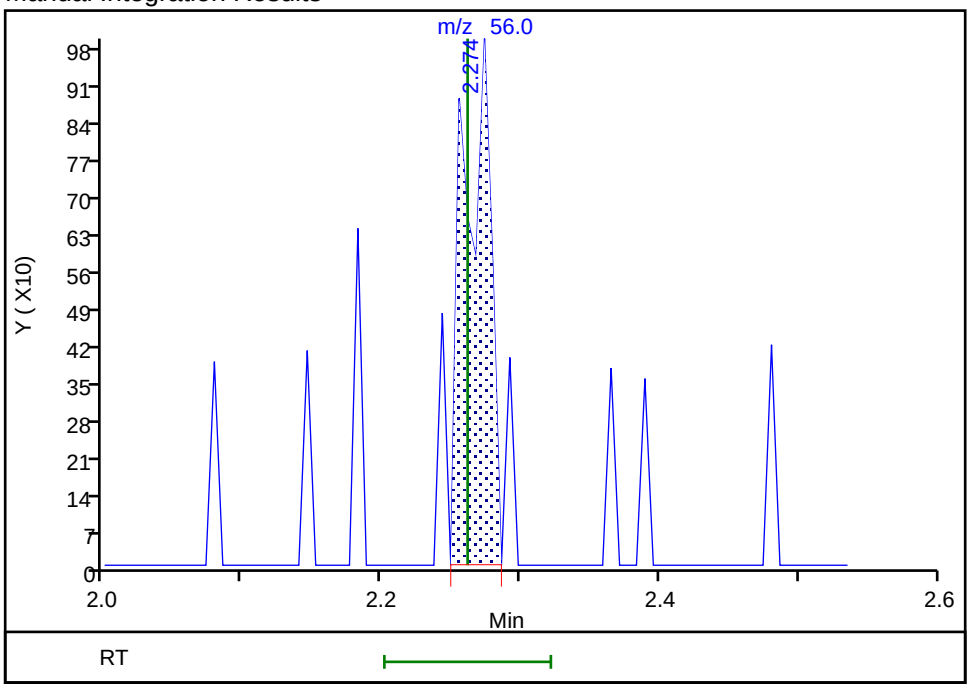
Not Detected
Expected RT: 2.26

Processing Integration Results



Manual Integration Results

RT: 2.27
Area: 1340
Amount: 2.499745
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:00:09
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

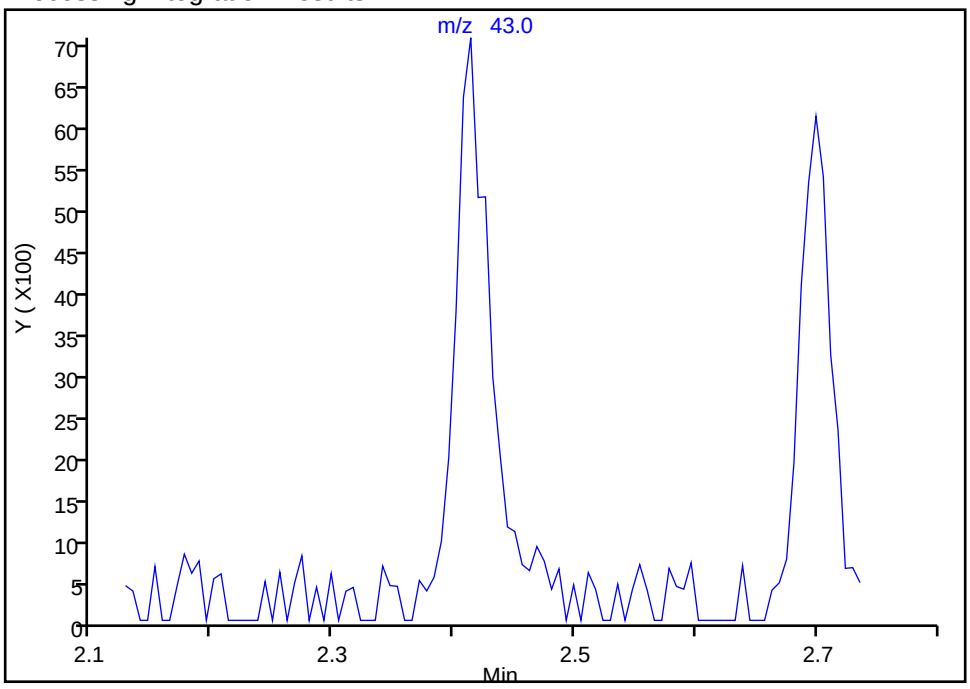
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Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

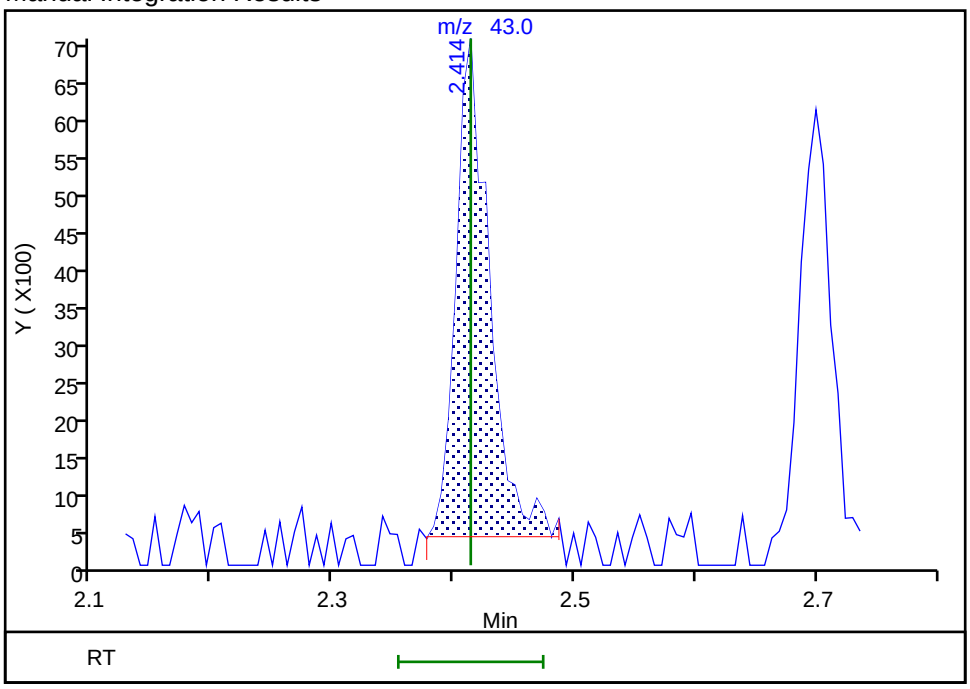
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 12756
Amount: 2.794856
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:00:31
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

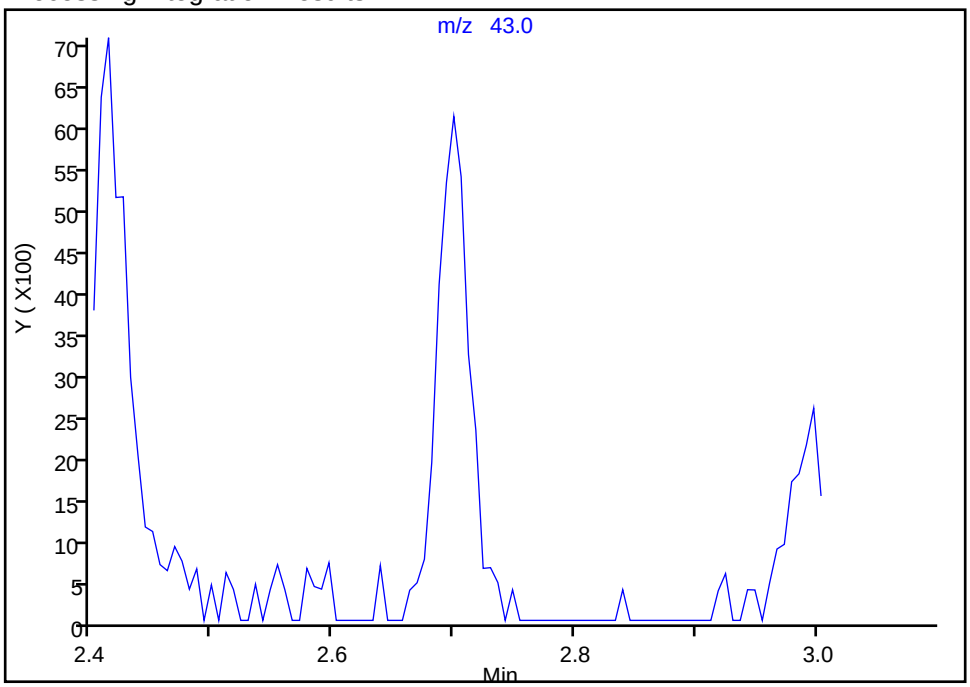
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Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

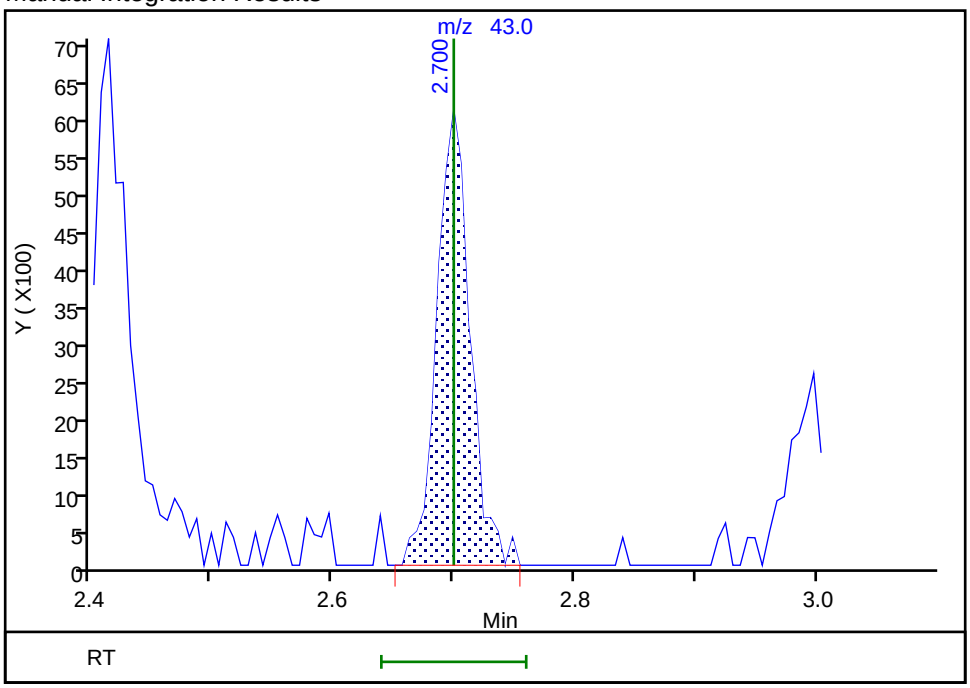
Not Detected
Expected RT: 2.70

Processing Integration Results



Manual Integration Results

RT: 2.70
Area: 11645
Amount: 1.173019
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:00:40
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

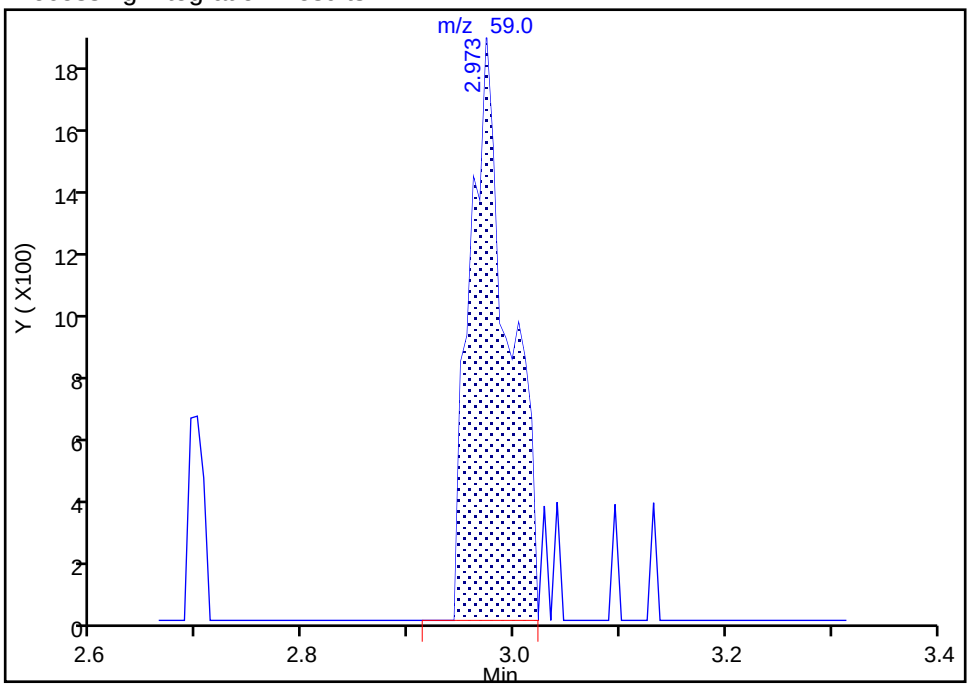
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Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

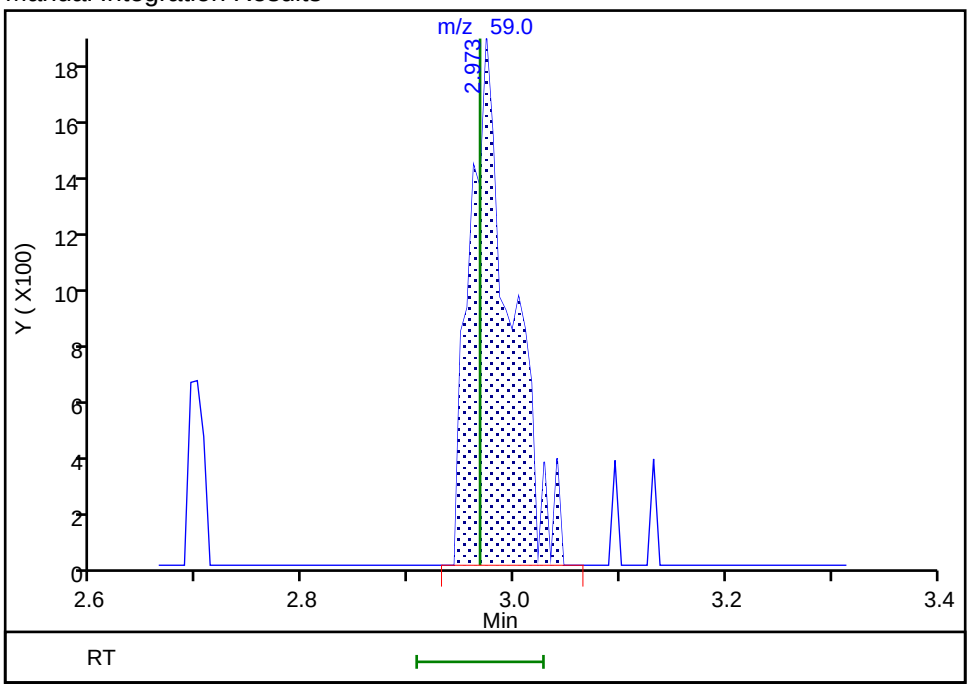
Processing Integration Results

RT: 2.97
Area: 4587
Amount: 4.326022
Amount Units: ug/L



Manual Integration Results

RT: 2.97
Area: 4850
Amount: 4.408380
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:00:48
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

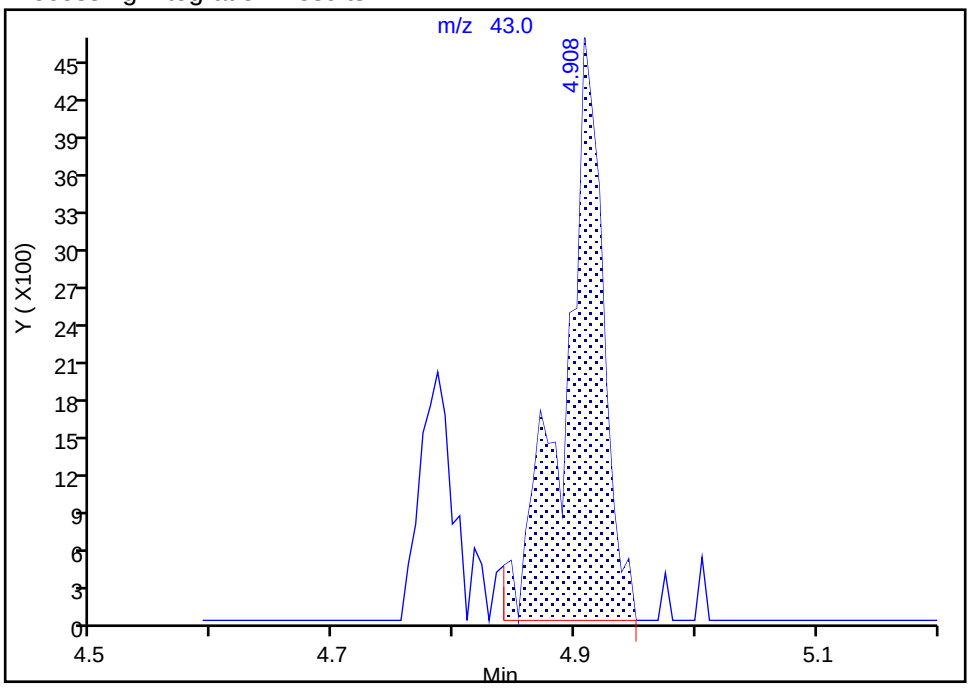
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Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

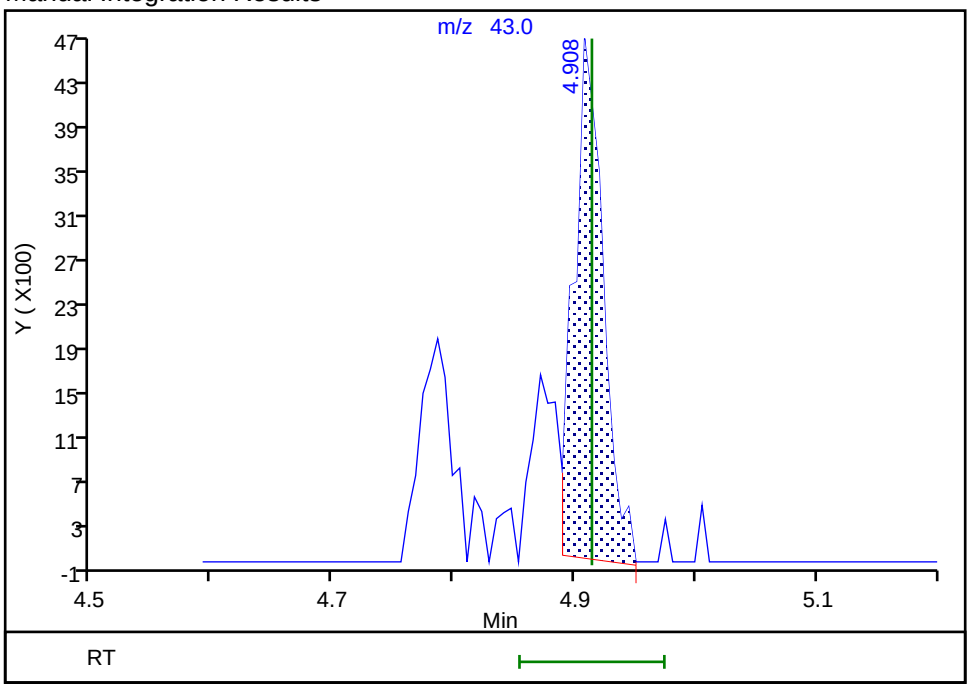
Processing Integration Results

RT: 4.91
Area: 10491
Amount: 0.628251
Amount Units: ug/L



Manual Integration Results

RT: 4.91
Area: 7804
Amount: 0.508969
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:01:52
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

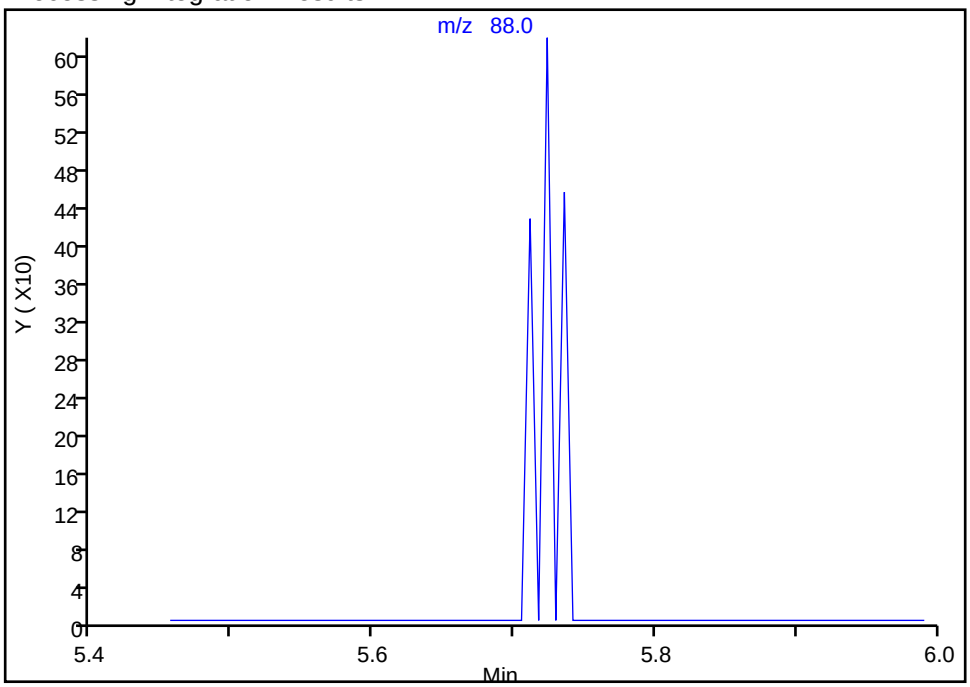
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Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

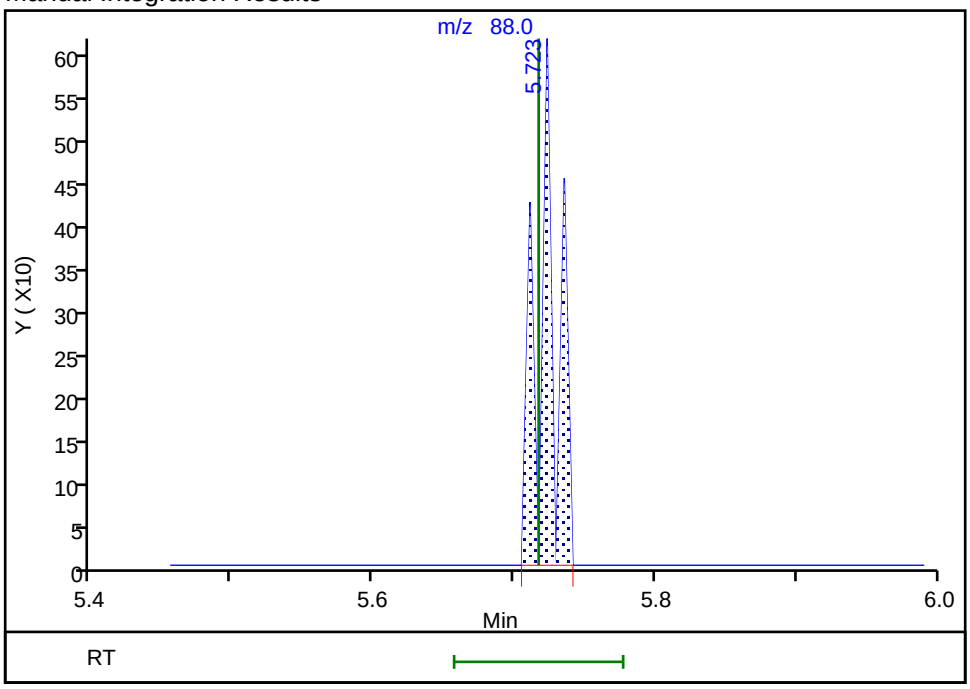
Not Detected
Expected RT: 5.72

Processing Integration Results



Manual Integration Results

RT: 5.72
Area: 544
Amount: 5.379228
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:02:12
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

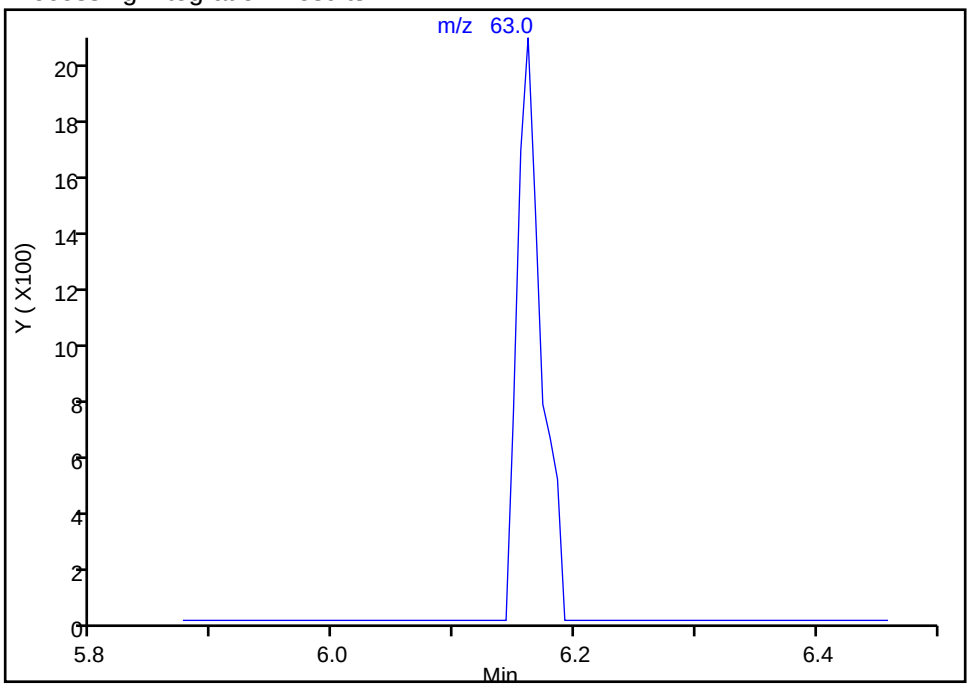
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Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

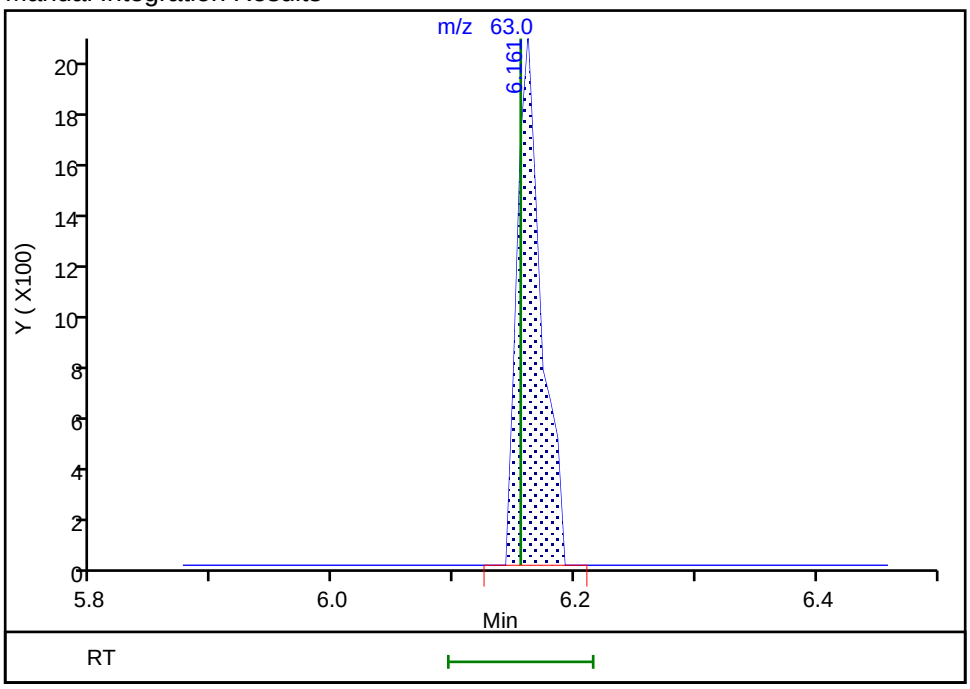
Not Detected
Expected RT: 6.16

Processing Integration Results



Manual Integration Results

RT: 6.16
Area: 2778
Amount: 0.465994
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:02:20
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

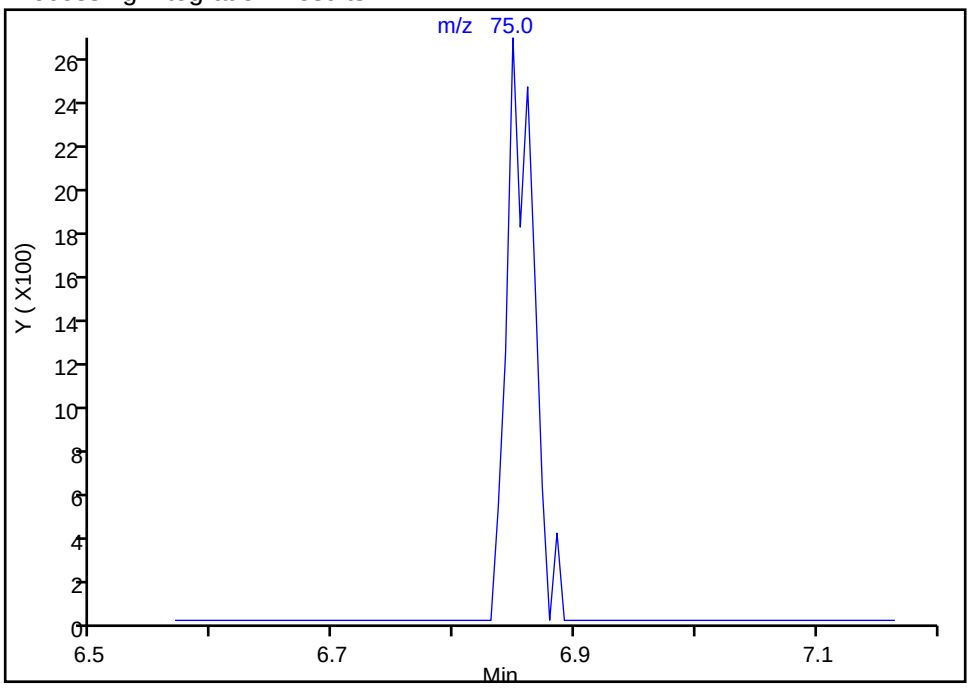
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D
Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

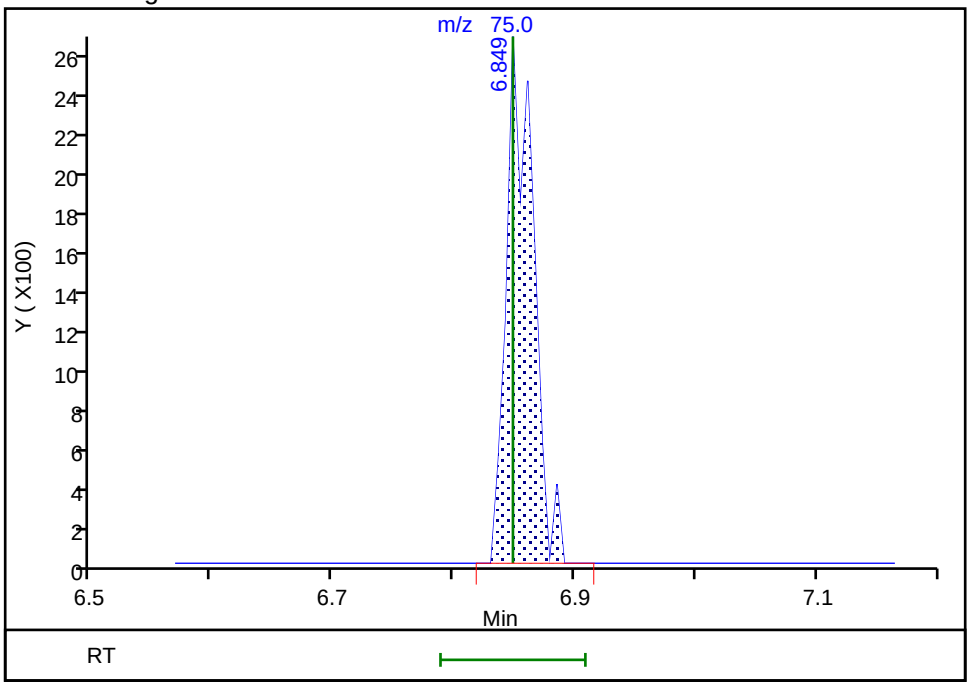
Not Detected
Expected RT: 6.85

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 4113
Amount: 0.408252
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:02:28
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

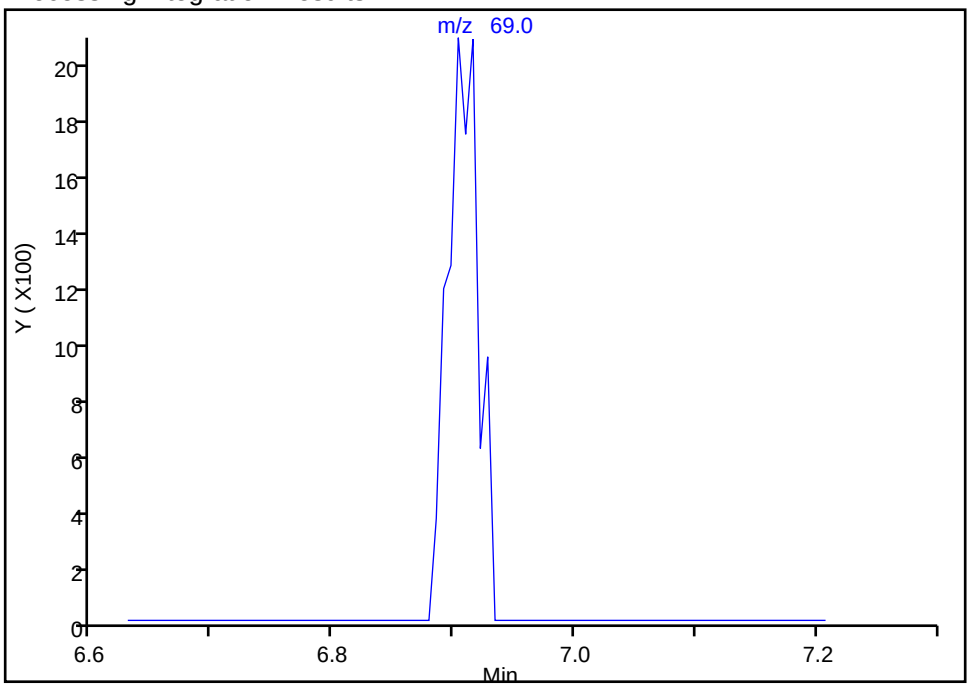
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D
Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

75 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

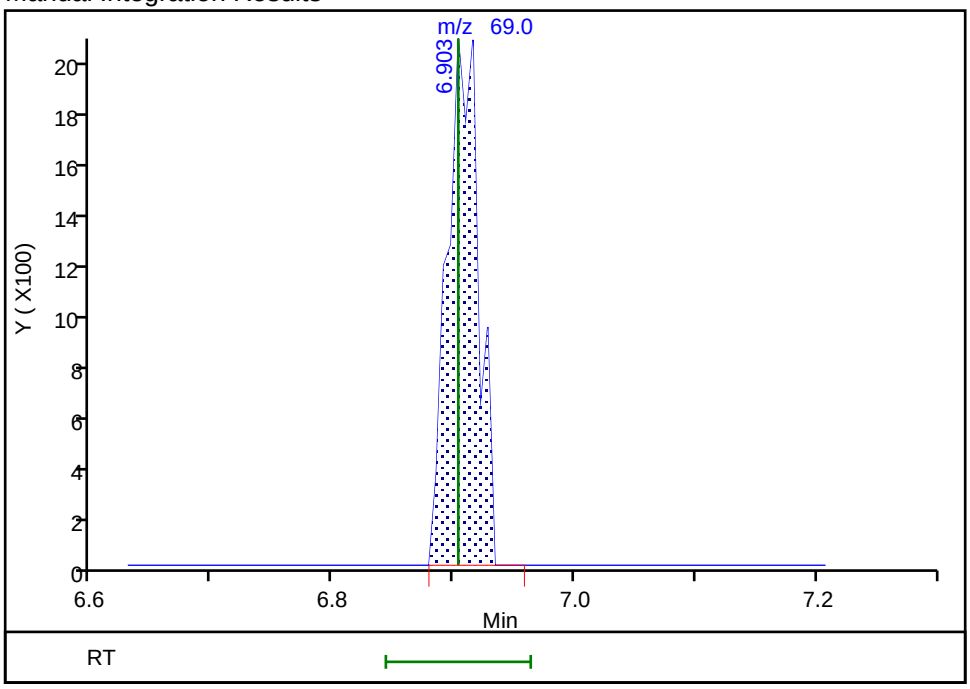
Not Detected
Expected RT: 6.90

Processing Integration Results



Manual Integration Results

RT: 6.90
Area: 3650
Amount: 1.021196
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:02:34
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

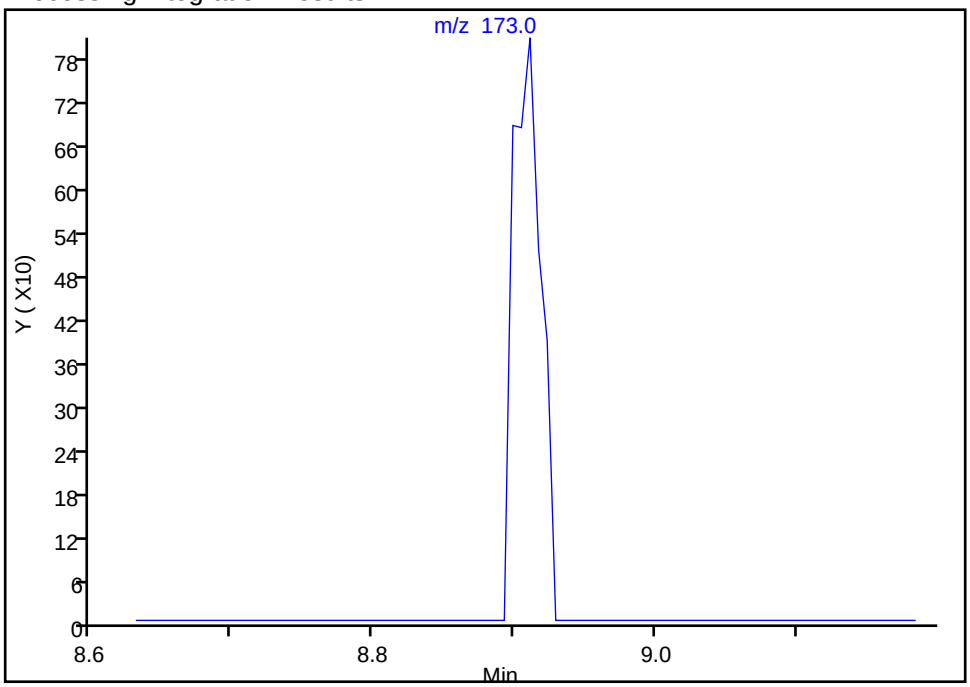
Data File:	\\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D				
Injection Date:	28-Jul-2021 17:50:30	Instrument ID:	HP5973S		
Lims ID:	IC 0.5				
Client ID:					
Operator ID:	LH	ALS Bottle#:	4	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

95 Bromoform, CAS: 75-25-2

Signal: 1

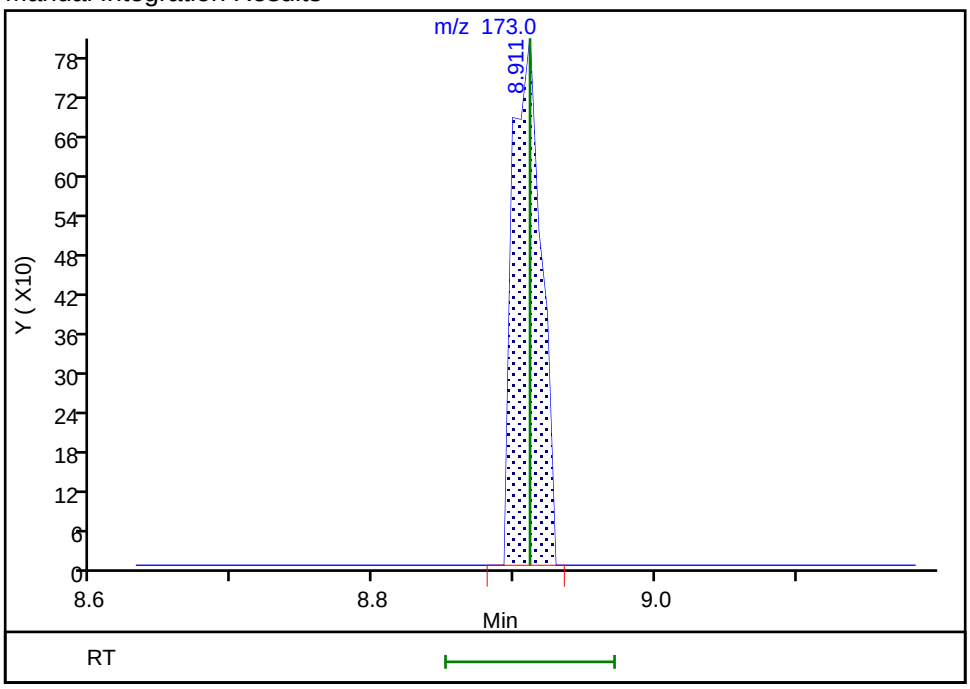
Not Detected
Expected RT: 8.91

Processing Integration Results



Manual Integration Results

RT: 8.91
Area: 1127
Amount: 0.828266
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:02:51
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

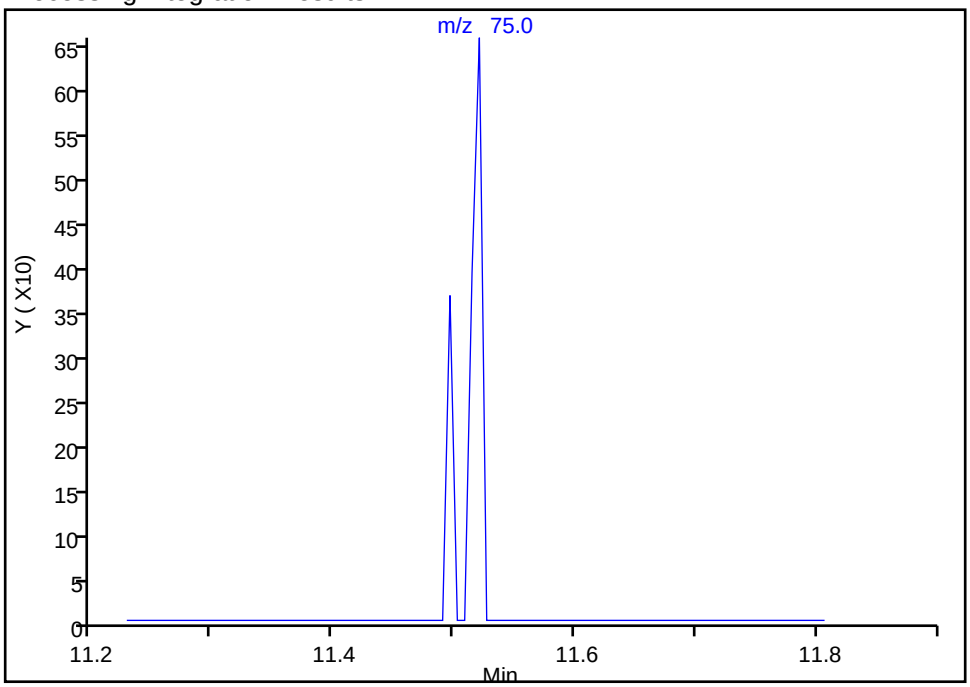
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1603.D
Injection Date: 28-Jul-2021 17:50:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

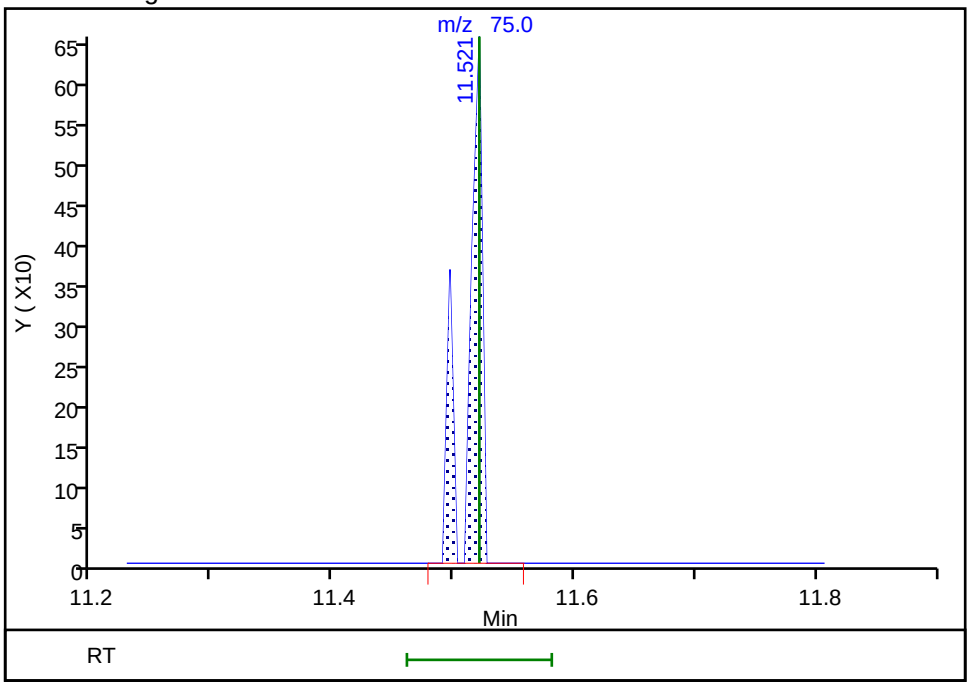
Not Detected
Expected RT: 11.52

Processing Integration Results



Manual Integration Results

RT: 11.52
Area: 512
Amount: 0.351687
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:03:06
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1604.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 28-Jul-2021 18:13:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0100106-007
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:44:33 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 10:05:44

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	4.999	4.999	0.000	98	133909	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	86	250239	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	290801	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.427	0.006	57	195198	25.0	25.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.725	0.007	92	116214	25.0	25.1	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	92	677522	25.0	25.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	92	221575	25.0	25.5	
10 Dichlorodifluoromethane	85	1.087	1.087	0.000	60	11077	1.00	1.17	
12 Chloromethane	50	1.240	1.240	0.000	83	15718	1.00	1.10	
13 Vinyl chloride	62	1.325	1.319	0.006	58	14438	1.00	1.19	
151 Butadiene	54	1.319	1.319	0.000	0	13753	1.00	1.17	M
14 Bromomethane	94	1.562	1.574	-0.012	72	7740	1.00	1.11	M
15 Chloroethane	64	1.635	1.641	-0.006	41	7018	1.00	0.9779	M
16 Dichlorofluoromethane	67	1.836	1.842	-0.006	61	18704	1.00	1.17	
17 Trichlorofluoromethane	101	1.854	1.854	0.000	66	13059	1.00	1.05	
18 Ethyl ether	59	2.097	2.091	0.006	0	9181	1.00	1.01	M
20 Acrolein	56	2.262	2.262	0.000	0	2625	5.00	5.04	M
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.286	2.292	-0.006	43	8597	1.00	1.14	
22 1,1-Dichloroethene	96	2.292	2.304	-0.012	69	8906	1.00	1.17	
23 Acetone	43	2.414	2.414	0.000	0	24452	5.00	5.51	M
25 Iodomethane	142	2.444	2.456	-0.012	79	16337	1.00	1.11	
26 Carbon disulfide	76	2.481	2.493	-0.012	87	29125	1.00	1.12	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	73	20615	1.00	1.22	
27 Methyl acetate	43	2.700	2.700	0.000	0	18997	2.00	1.97	M
30 Methylene Chloride	84	2.791	2.797	-0.006	84	14302	1.00	0.99	
31 2-Methyl-2-propanol	59	2.967	2.967	0.000	72	9696	10.0	9.07	
32 Methyl tert-butyl ether	73	2.992	2.992	0.000	82	34251	1.00	1.09	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	86	10900	1.00	1.20	
33 Acrylonitrile	53	3.077	3.071	0.006	96	53029	10.0	9.97	
35 Hexane	57	3.198	3.198	0.000	90	14349	1.00	1.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.417	3.417	0.000	58	17179	1.00	1.00	
37 Vinyl acetate	43	3.478	3.478	0.000	94	26545	2.00	1.71	
44 2,2-Dichloropropane	77	3.916	3.922	-0.006	44	9212	1.00	1.16	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	55	11356	1.00	1.13	
43 2-Butanone (MEK)	43	4.014	4.001	0.013	94	25425	5.00	4.39	
48 Chlorobromomethane	128	4.196	4.196	0.000	72	6204	1.00	1.09	
49 Tetrahydrofuran	42	4.214	4.208	0.006	78	9793	2.00	2.22	
50 Chloroform	83	4.275	4.275	0.000	64	18885	1.00	1.18	
51 1,1,1-Trichloroethane	97	4.373	4.379	-0.006	51	13598	1.00	1.13	
52 Cyclohexane	56	4.367	4.379	-0.012	73	20041	1.00	1.11	
55 Carbon tetrachloride	117	4.513	4.513	0.001	62	8386	1.00	1.02	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	76	11599	1.00	1.01	
57 Benzene	78	4.725	4.725	0.000	46	35971	1.00	1.04	
53 Isobutyl alcohol	43	4.780	4.774	0.006	32	6327	25.0	31.0	
58 1,2-Dichloroethane	62	4.805	4.798	0.007	67	14574	1.00	1.03	
59 n-Heptane	43	4.914	4.914	0.000	84	15971	1.00	1.07	M
62 Trichloroethene	95	5.334	5.334	0.000	67	9130	1.00	1.03	
64 Methylcyclohexane	83	5.437	5.443	-0.006	79	15370	1.00	1.00	
65 1,2-Dichloropropane	63	5.577	5.571	0.006	64	8721	1.00	0.9695	
67 Dibromomethane	93	5.705	5.711	-0.006	68	6077	1.00	1.11	
66 1,4-Dioxane	88	5.723	5.717	0.006	0	1736	20.0	18.5	M
68 Dichlorobromomethane	83	5.875	5.869	0.006	54	8392	1.00	0.9232	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	0	5037	1.00	0.8695	M
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	49	10381	1.00	0.8785	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	95	56086	5.00	4.89	
74 Toluene	92	6.563	6.557	0.006	74	22946	1.00	1.09	
77 trans-1,3-Dichloropropene	75	6.849	6.849	0.000	0	8438	1.00	0.9003	M
75 Ethyl methacrylate	69	6.916	6.903	0.013	39	4764	1.00	1.18	M
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	64	5531	1.00	0.9514	
81 Tetrachloroethene	166	7.080	7.080	0.000	62	9306	1.00	1.04	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	74	11604	1.00	0.9698	
80 2-Hexanone	43	7.274	7.268	0.006	92	32090	5.00	4.52	
83 Chlorodibromomethane	129	7.420	7.427	-0.007	2	4555	1.00	0.8780	
84 Ethylene Dibromide	107	7.524	7.518	0.006	54	6362	1.00	0.9142	
87 Chlorobenzene	112	7.992	7.992	0.000	44	25699	1.00	1.06	
88 Ethylbenzene	91	8.090	8.090	0.000	91	40585	1.00	1.03	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	23	6755	1.00	1.02	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	95	16464	1.00	1.05	
91 o-Xylene	106	8.631	8.631	0.000	88	15937	1.00	1.00	
92 Styrene	104	8.668	8.668	0.000	83	26544	1.00	1.03	
95 Bromoform	173	8.905	8.911	-0.006	1	2521	1.00	1.27	
94 Isopropylbenzene	105	9.020	9.020	0.000	84	45655	1.00	1.04	
101 Bromobenzene	156	9.367	9.367	0.000	73	11564	1.00	1.04	
97 1,1,2,2-Tetrachloroethane	83	9.446	9.452	-0.006	31	10213	1.00	0.9872	
99 N-Propylbenzene	91	9.465	9.465	0.000	96	48756	1.00	0.99	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	52	3320	1.00	0.9231	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	1	3131	1.00	0.9698	
103 2-Chlorotoluene	126	9.562	9.562	0.000	86	10092	1.00	0.9494	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	86	36439	1.00	0.9725	
105 4-Chlorotoluene	126	9.684	9.684	0.000	87	10299	1.00	0.9624	
106 tert-Butylbenzene	134	9.976	9.976	0.000	73	7877	1.00	0.9336	
107 1,2,4-Trimethylbenzene	105	10.036	10.036	0.000	42	39451	1.00	1.02	

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	10.195	10.195	0.000	75	45878	1.00	0.9741	
111 1,3-Dichlorobenzene	146	10.328	10.322	0.006	87	23033	1.00	1.02	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	89	42491	1.00	0.9886	
113 1,4-Dichlorobenzene	146	10.420	10.414	0.006	80	22543	1.00	1.01	
115 n-Butylbenzene	91	10.736	10.736	0.000	89	35768	1.00	0.9889	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.001	84	24658	1.00	1.08	
117 1,2-Dibromo-3-Chloropropane	75	11.515	11.521	-0.006	1	1146	1.00	0.8355	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	69	19118	1.00	1.07	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	52	7239	1.00	1.00	
121 Naphthalene	128	12.409	12.409	0.000	90	48603	1.00	0.9680	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	80	19811	1.00	1.12	
S 123 Total BTEX	1				0			5.21	
S 126 1,3-Dichloropropene, Total	1				0			1.78	
S 125 1,2-Dichloroethene, Total	1				0			2.33	
S 124 Xylenes, Total	1				0			2.05	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00465	Amount Added:	1.00	Units: uL	
8260 CORP mix_00211	Amount Added:	1.00	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

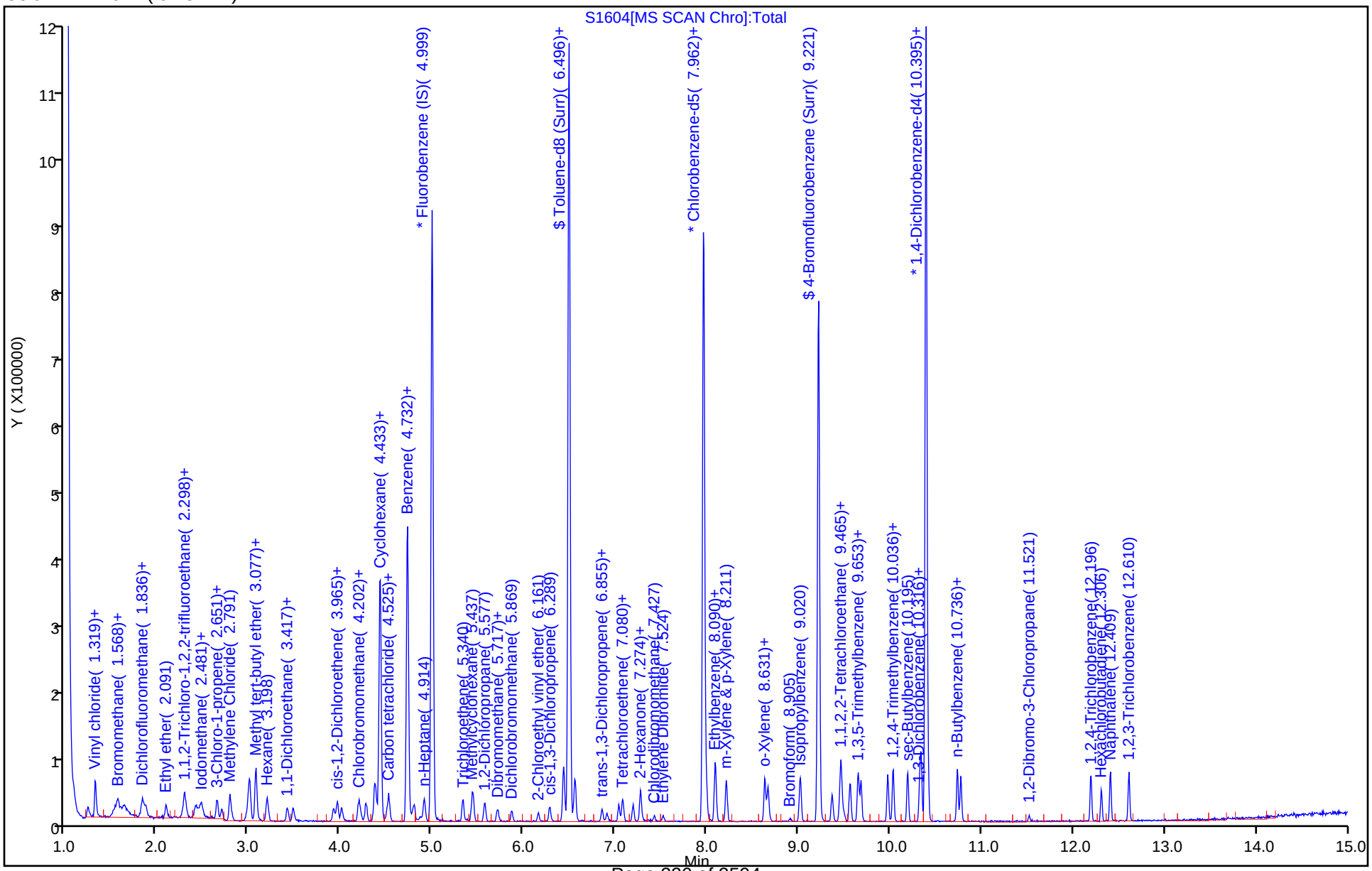
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Eurofins TestAmerica, Buffalo

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Injection Date:	28-Jul-2021 18:13:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

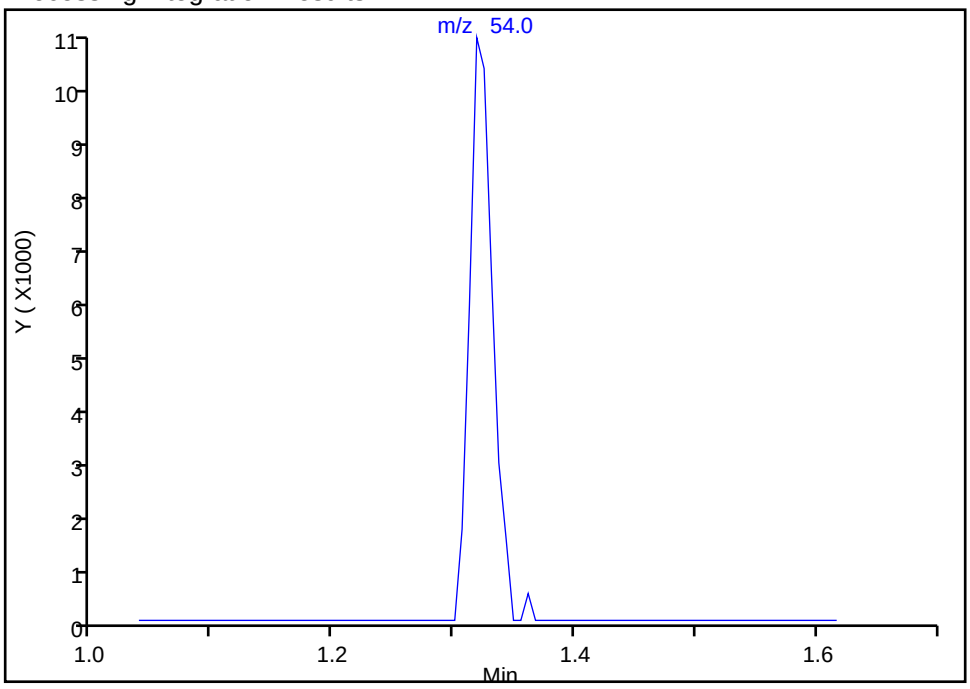
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Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

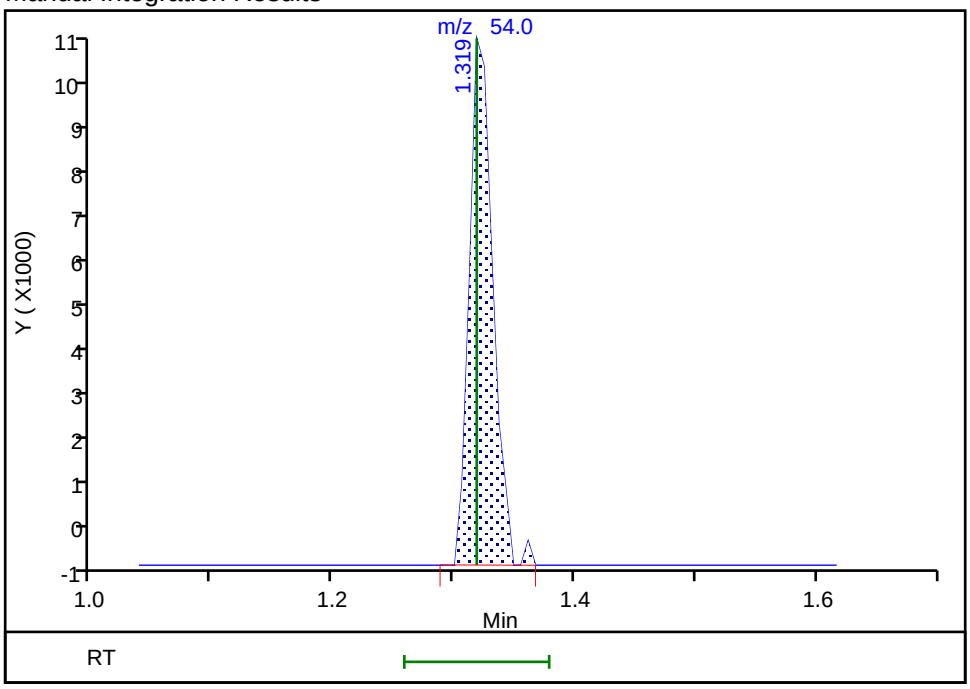
Not Detected
Expected RT: 1.32

Processing Integration Results



Manual Integration Results

RT: 1.32
Area: 13753
Amount: 1.171143
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:03:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

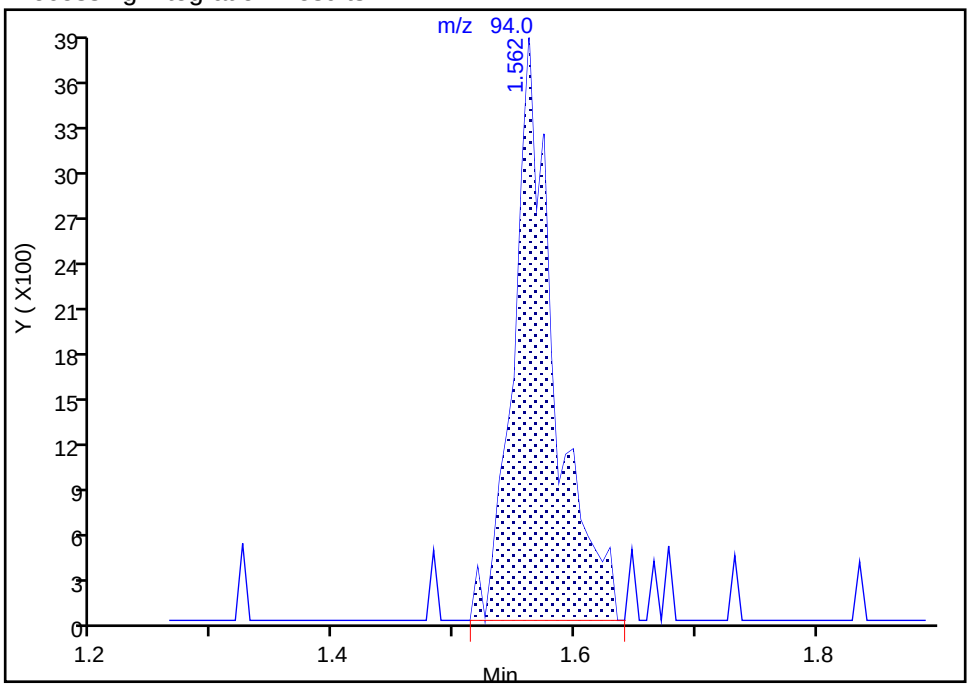
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Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

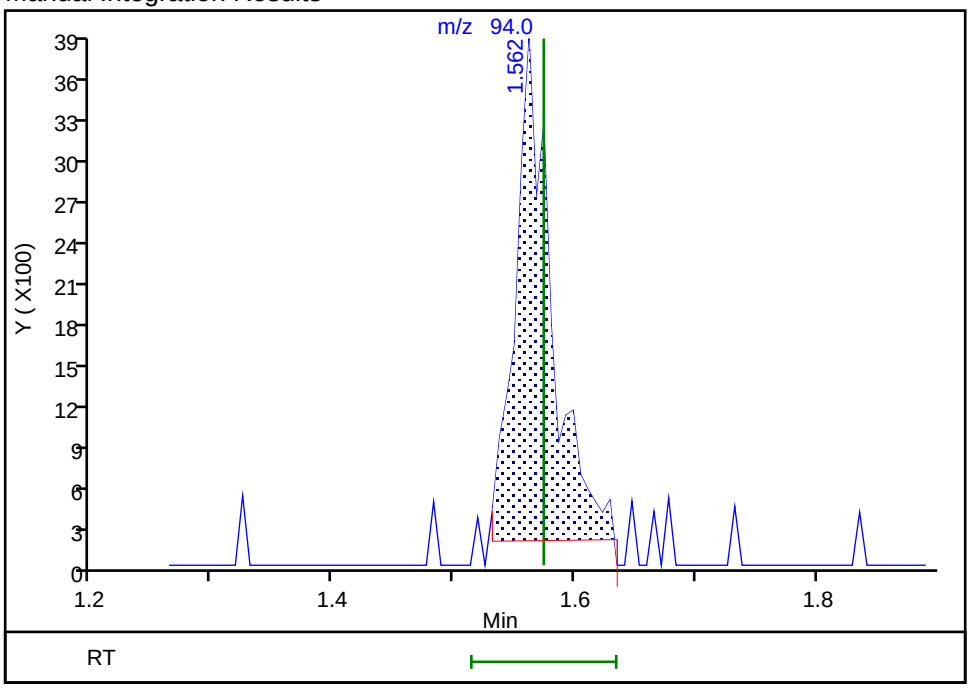
Processing Integration Results

RT: 1.56
Area: 9070
Amount: 1.265741
Amount Units: ug/L



Manual Integration Results

RT: 1.56
Area: 7740
Amount: 1.105791
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:03:50
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

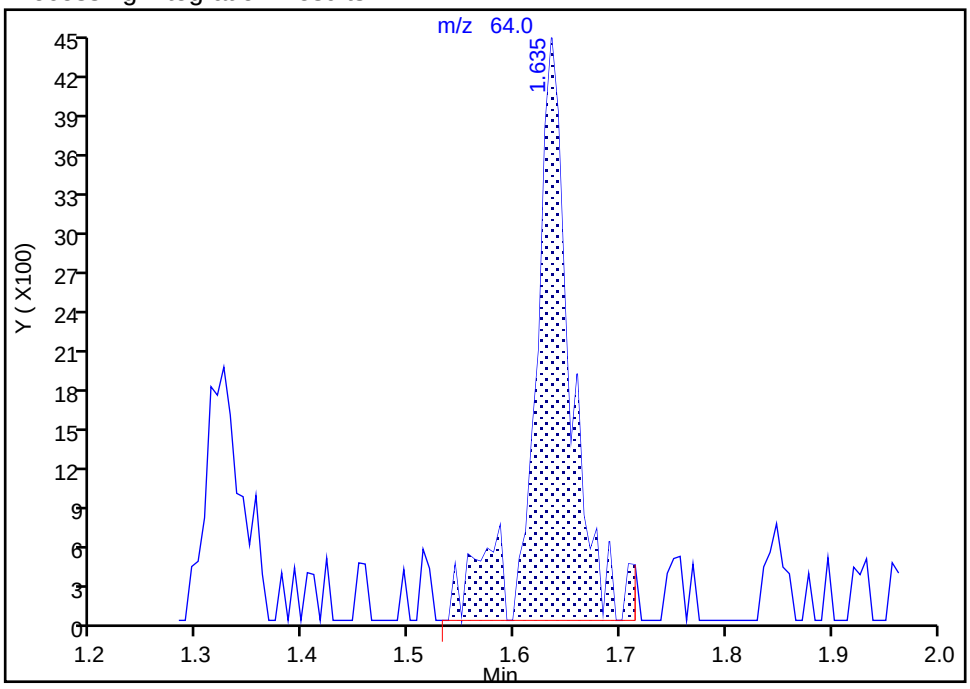
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Injection Date: 28-Jul-2021 18:13:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

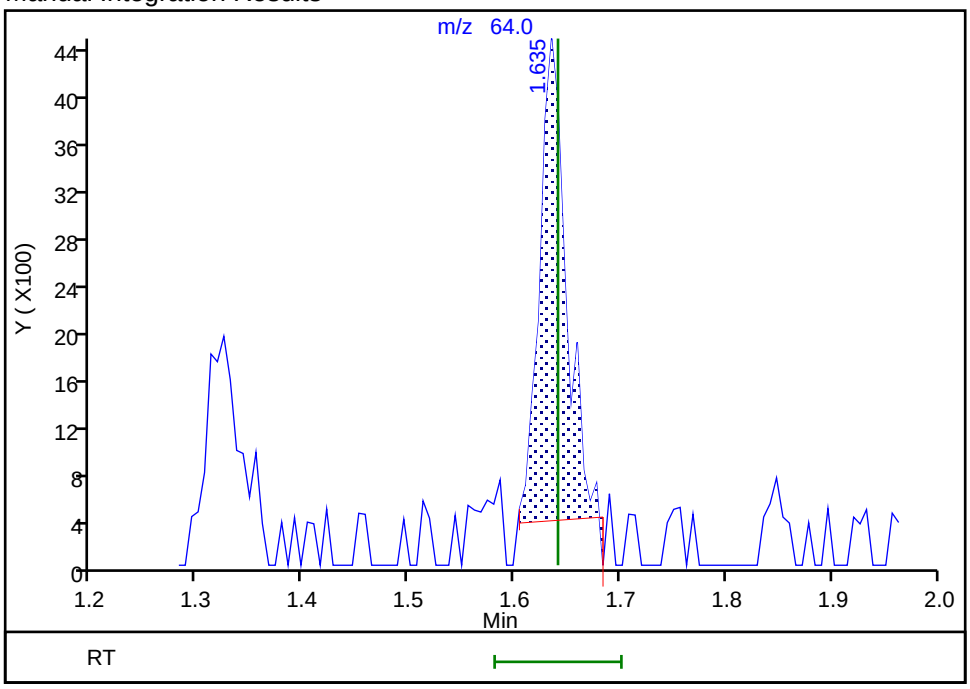
Processing Integration Results

RT: 1.64
Area: 10834
Amount: 1.398185
Amount Units: ug/L



Manual Integration Results

RT: 1.64
Area: 7018
Amount: 0.977863
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:04:00
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

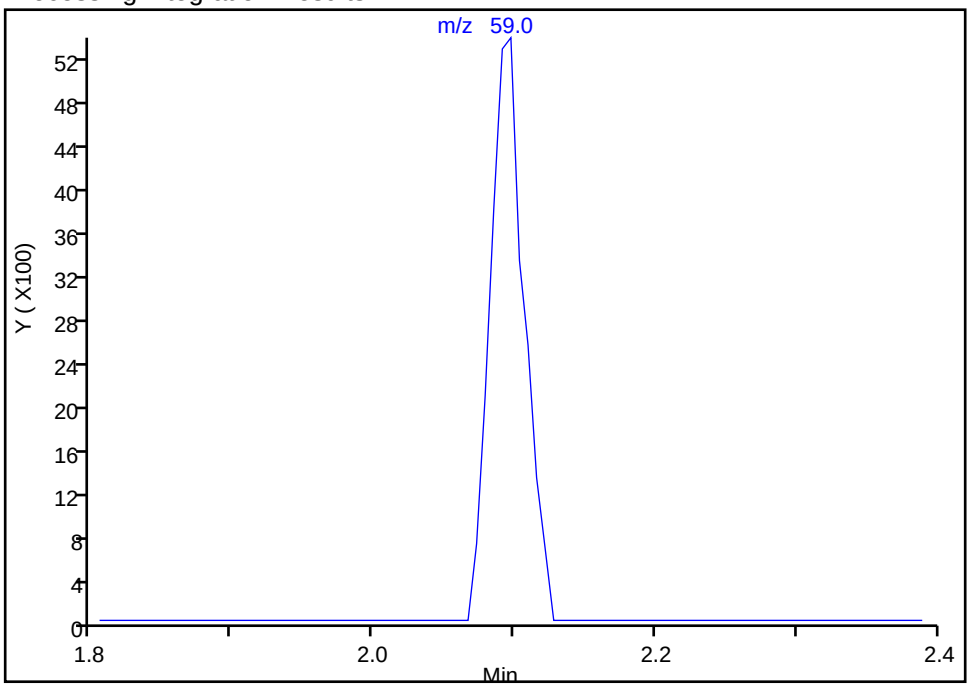
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Injection Date: 28-Jul-2021 18:13:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

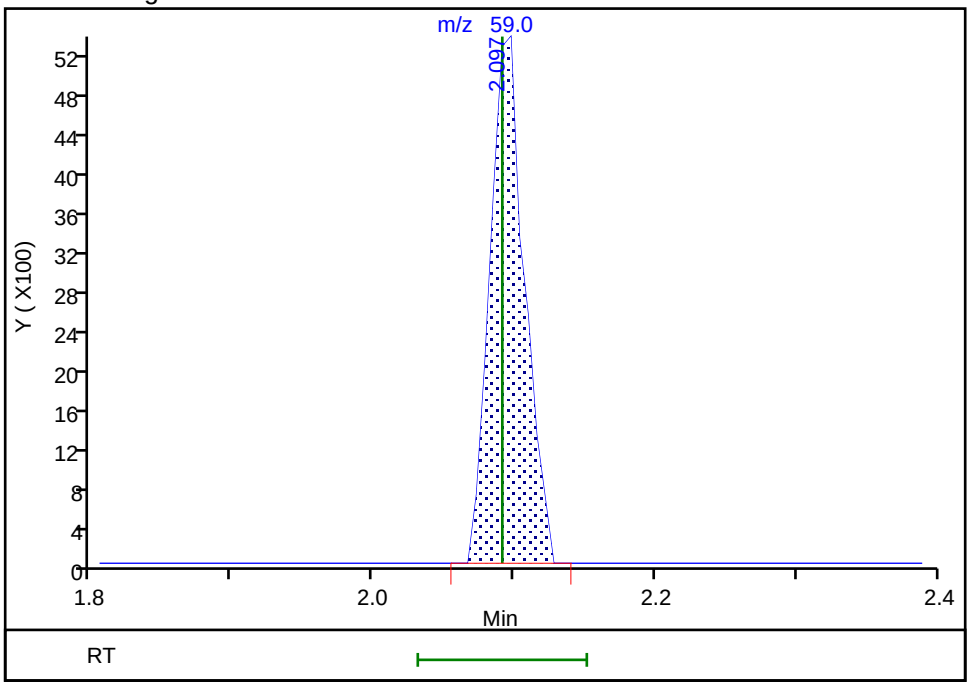
Not Detected
Expected RT: 2.09

Processing Integration Results



Manual Integration Results

RT: 2.10
Area: 9181
Amount: 1.012922
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:04:08
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

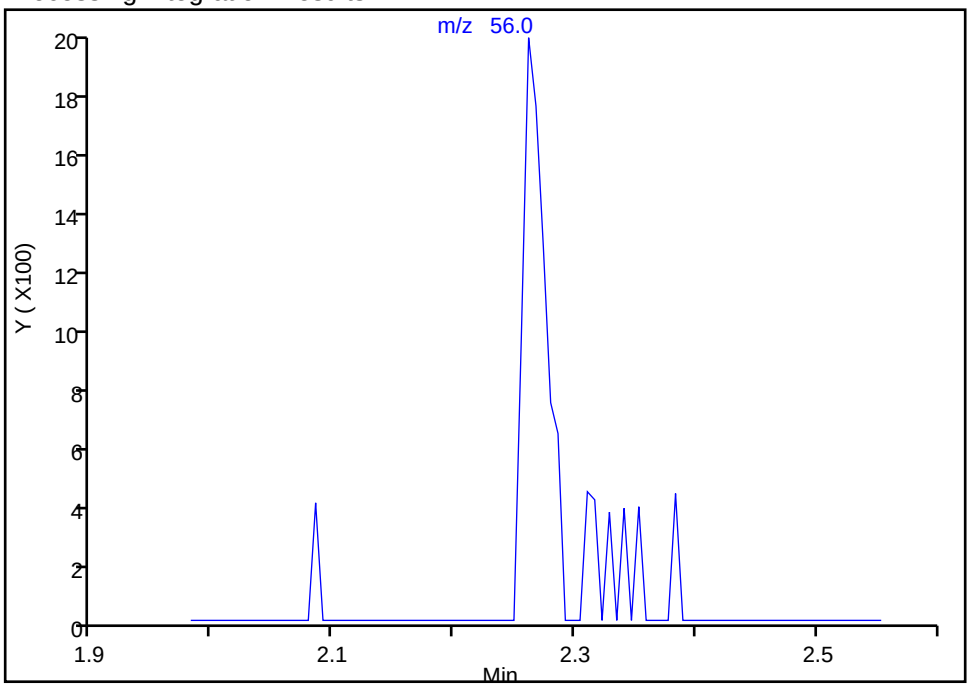
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Injection Date: 28-Jul-2021 18:13:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

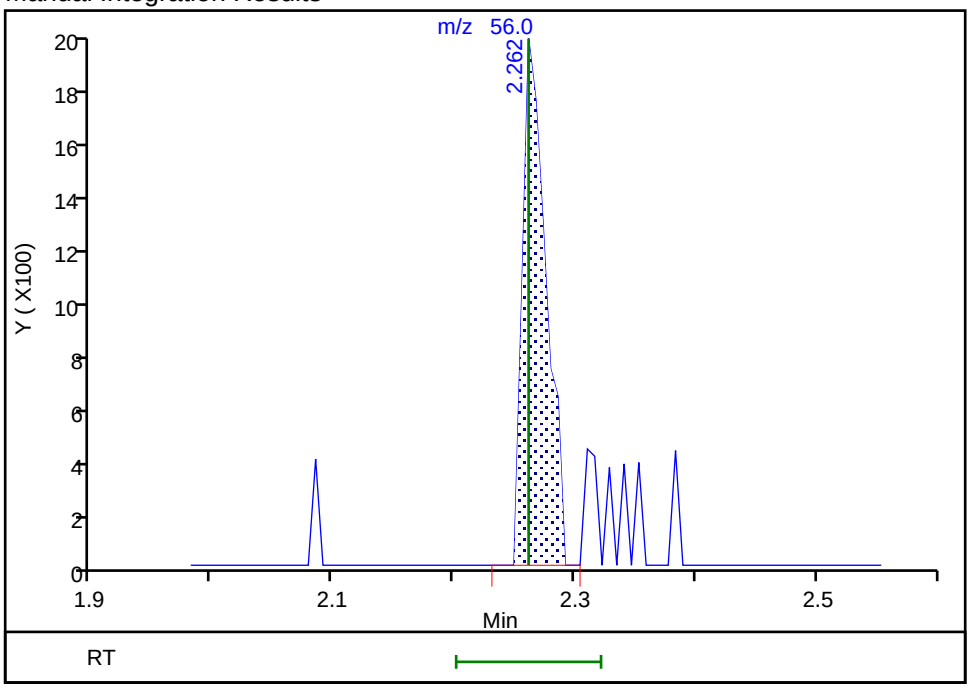
Not Detected
Expected RT: 2.26

Processing Integration Results



Manual Integration Results

RT: 2.26
Area: 2625
Amount: 5.039250
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:04:12
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

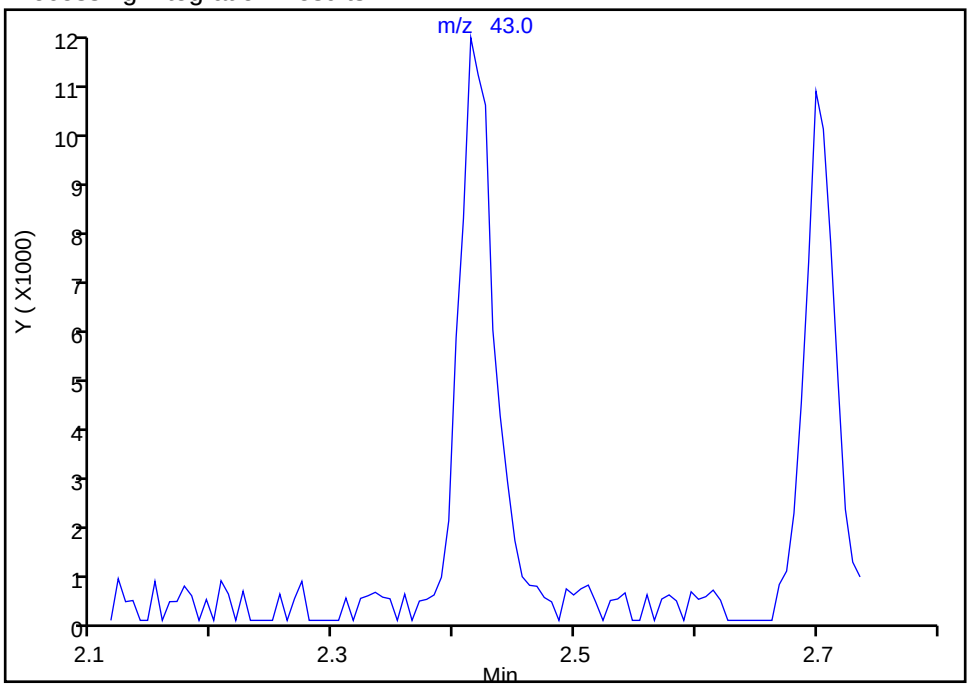
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Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

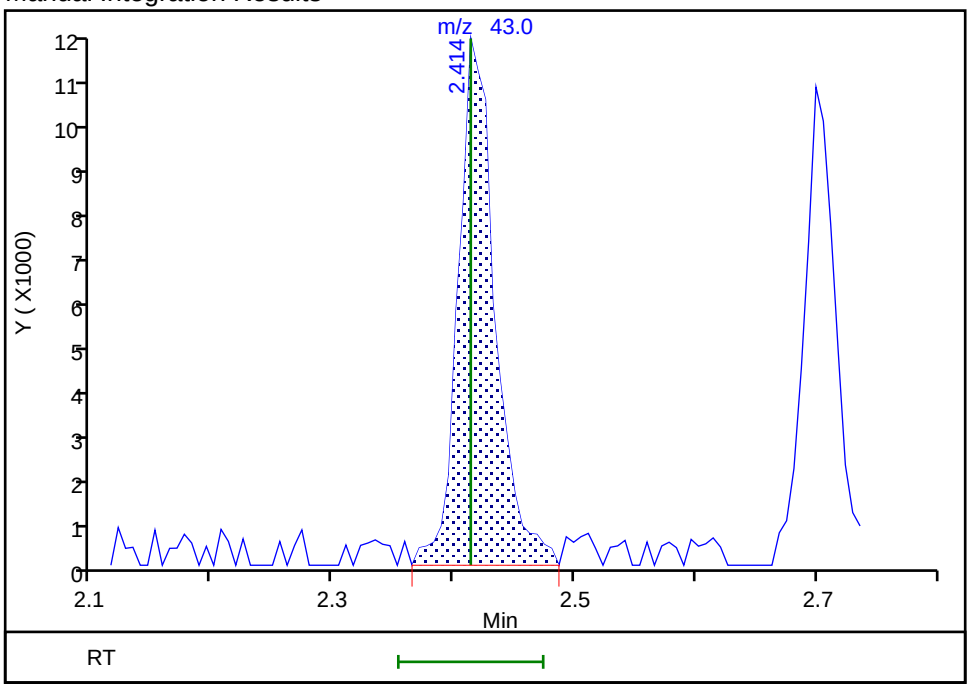
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 24452
Amount: 5.513217
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:04:21
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

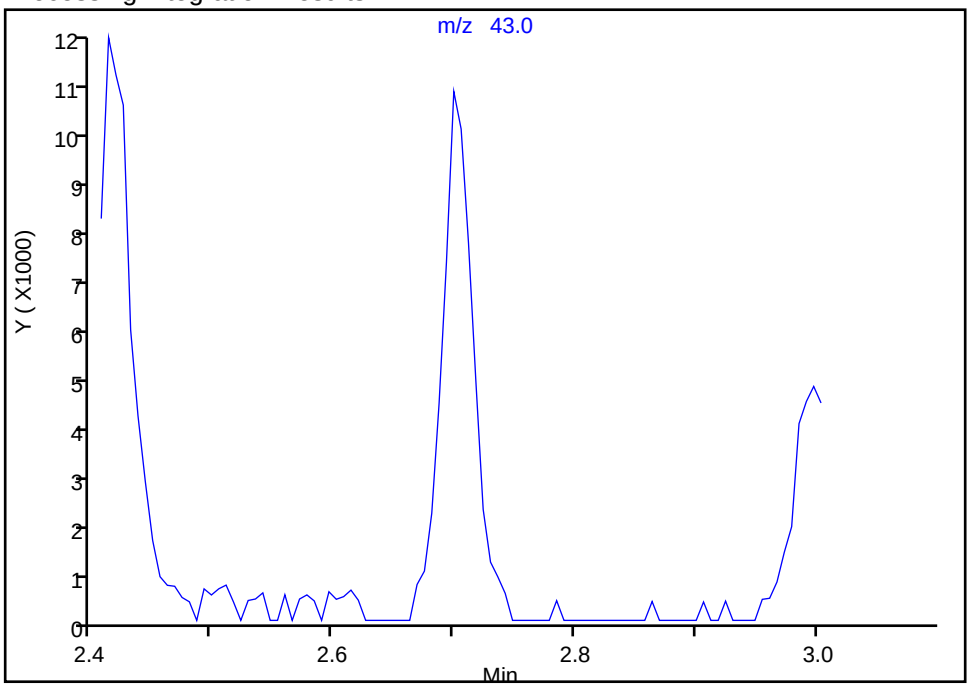
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Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

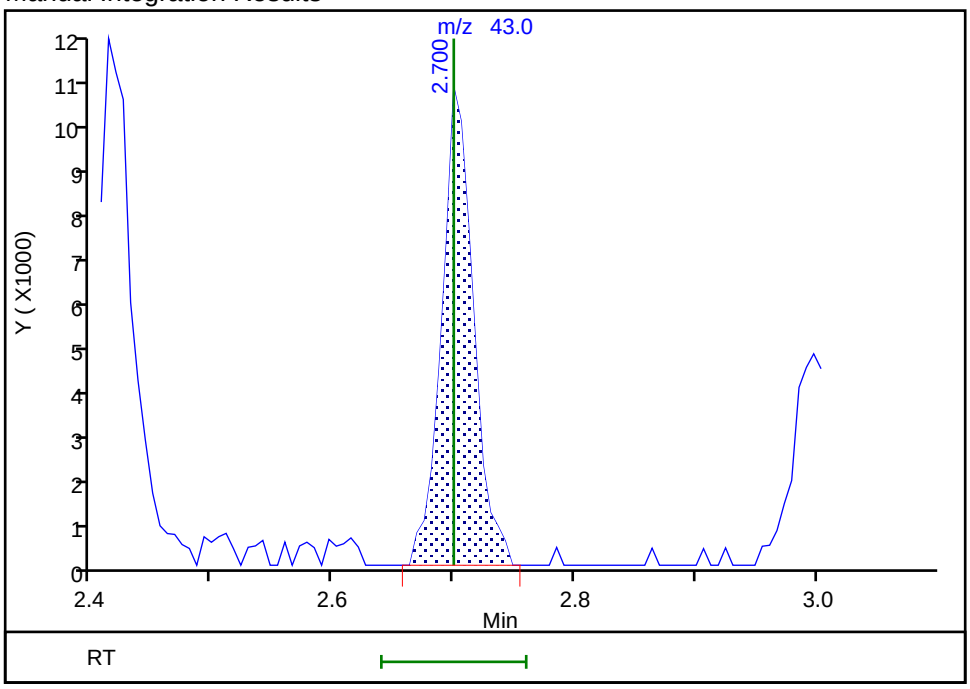
Not Detected
Expected RT: 2.70

Processing Integration Results



Manual Integration Results

RT: 2.70
Area: 18997
Amount: 1.969230
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:04:28
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

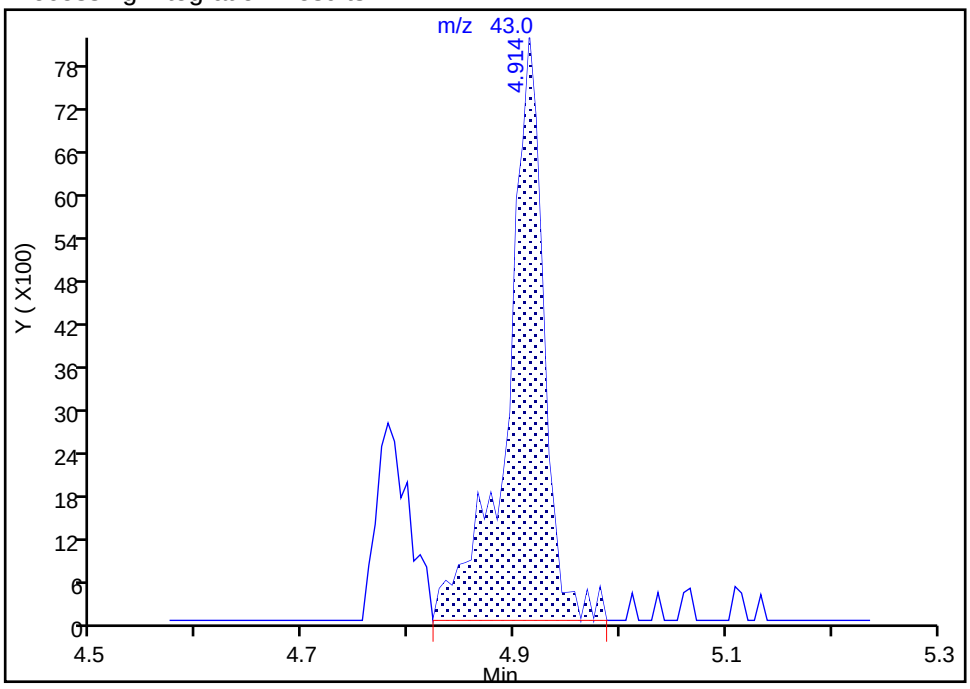
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Injection Date: 28-Jul-2021 18:13:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

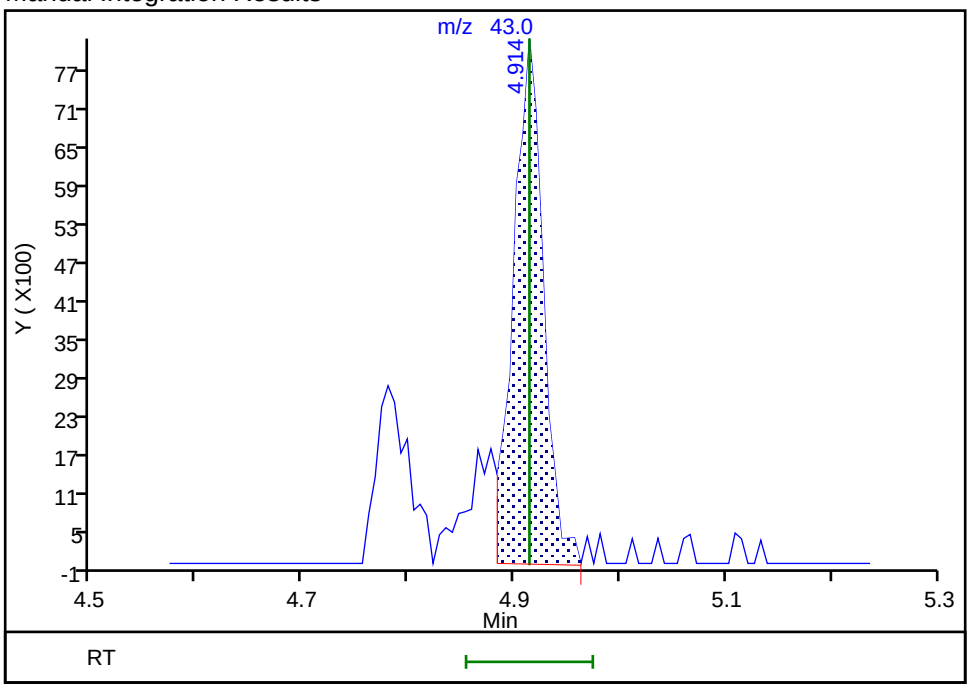
Processing Integration Results

RT: 4.91
Area: 19426
Amount: 1.247317
Amount Units: ug/L



Manual Integration Results

RT: 4.91
Area: 15971
Amount: 1.071894
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:04:48
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

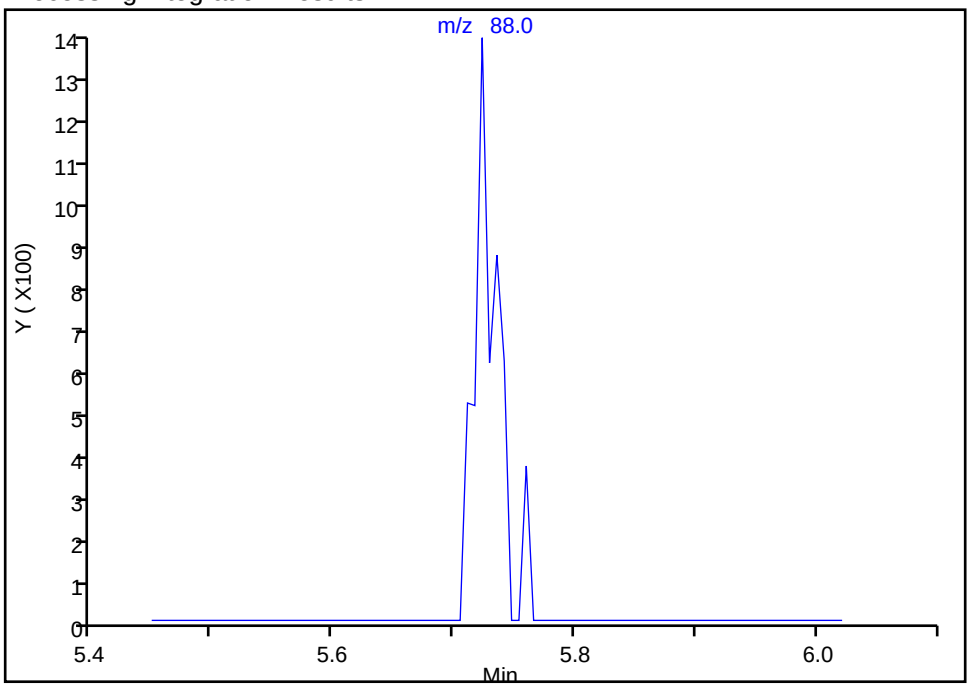
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Injection Date: 28-Jul-2021 18:13:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

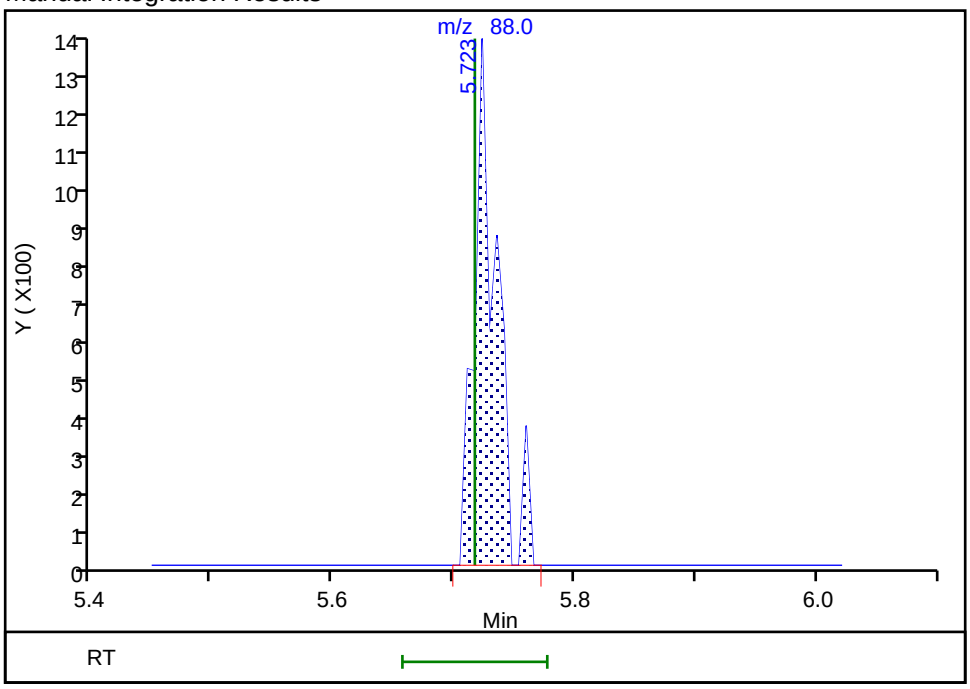
Not Detected
Expected RT: 5.72

Processing Integration Results



Manual Integration Results

RT: 5.72
Area: 1736
Amount: 18.452567
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:04:58
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

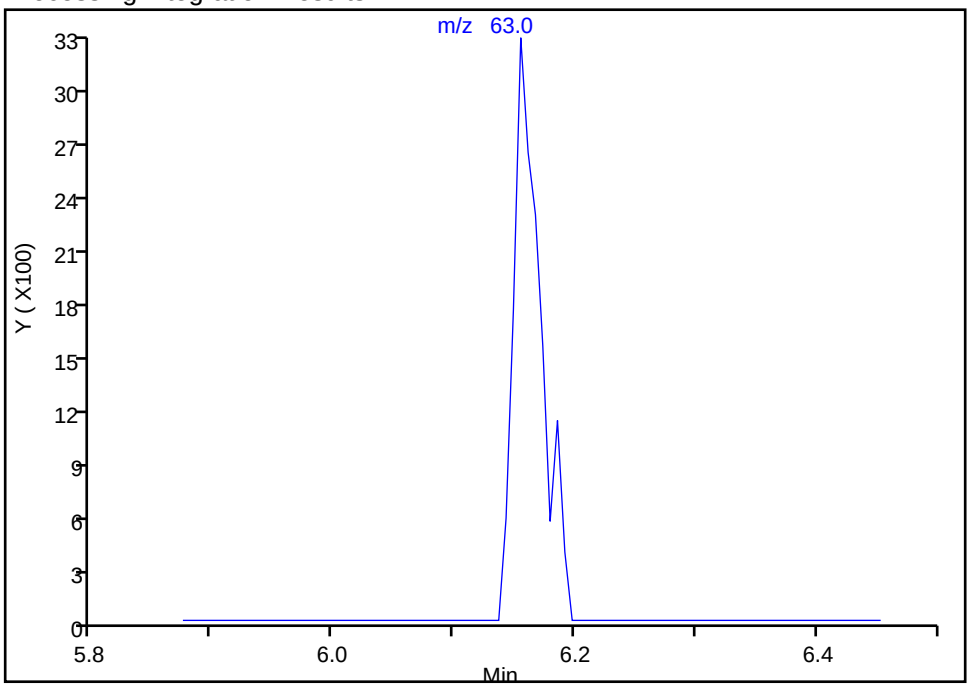
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Injection Date: 28-Jul-2021 18:13:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

69 2-Chloroethyl vinyl ether, CAS: 110-75-8

Signal: 1

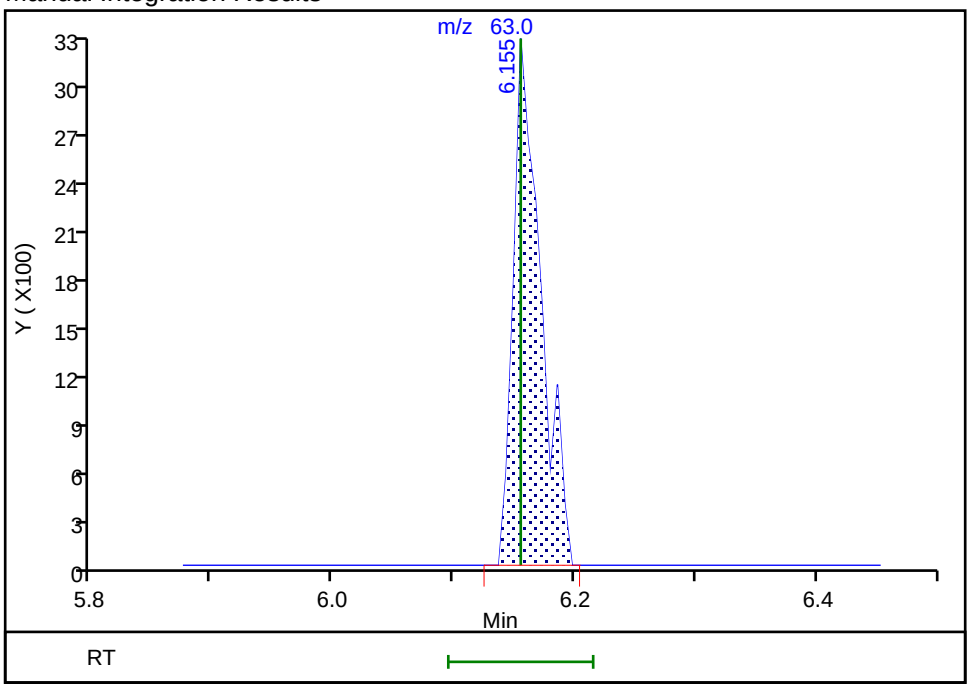
Not Detected
Expected RT: 6.16

Processing Integration Results



Manual Integration Results

RT: 6.16
Area: 5037
Amount: 0.869493
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:05:02
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

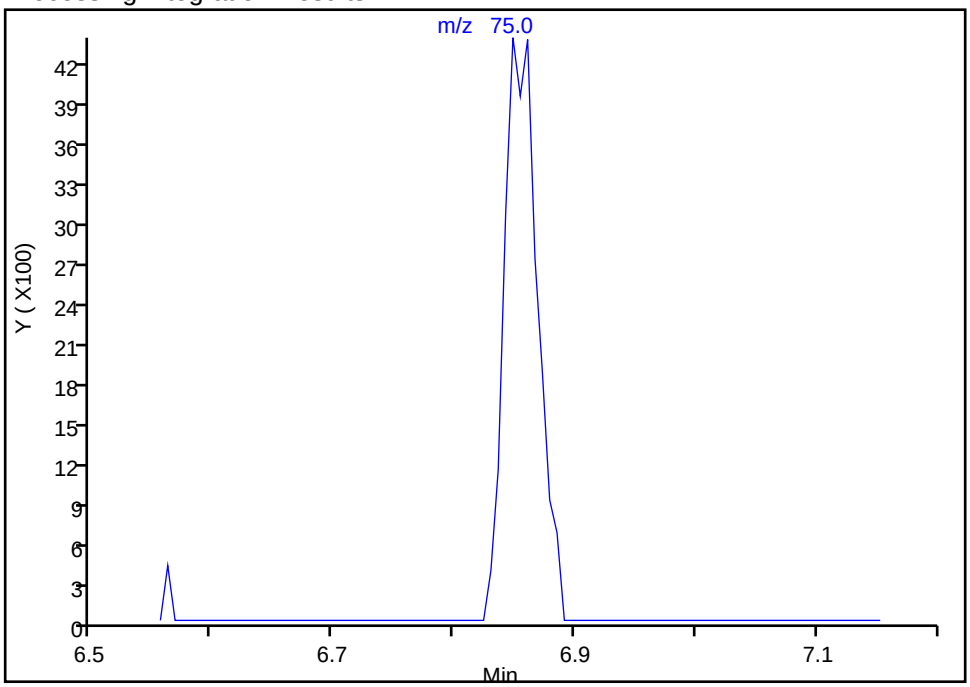
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Injection Date: 28-Jul-2021 18:13:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

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

Signal: 1

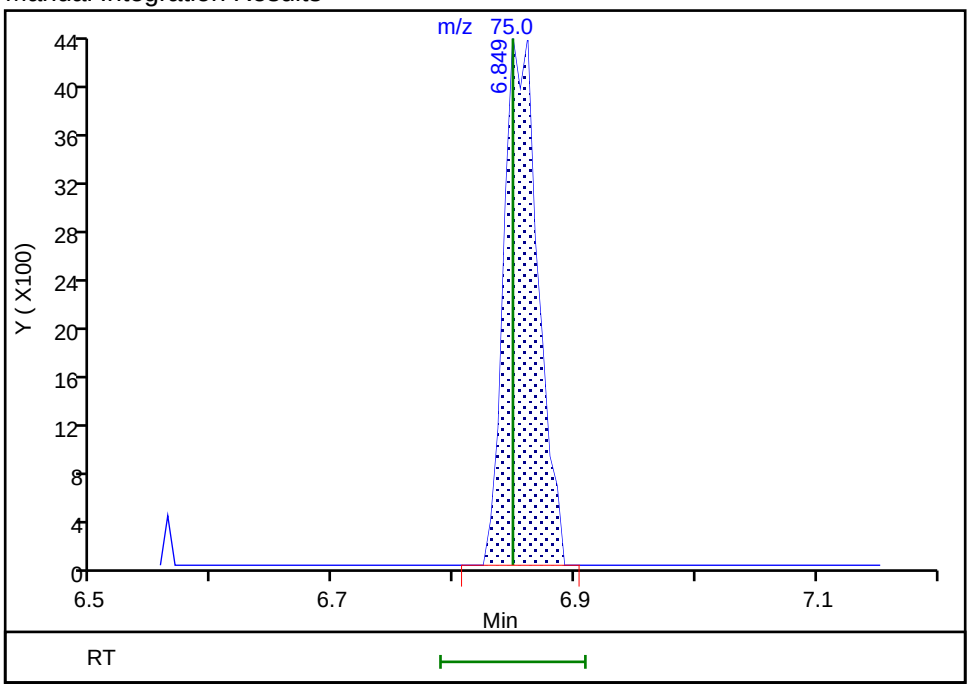
Not Detected
Expected RT: 6.85

Processing Integration Results



Manual Integration Results

RT: 6.85
Area: 8438
Amount: 0.900316
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:05:14
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

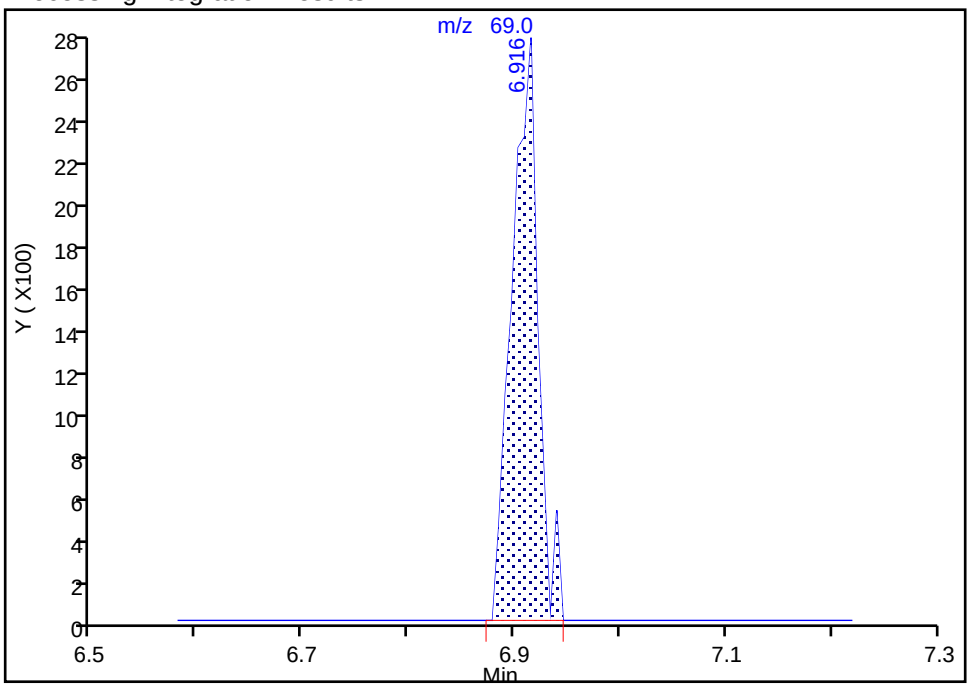
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Injection Date: 28-Jul-2021 18:13:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

75 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

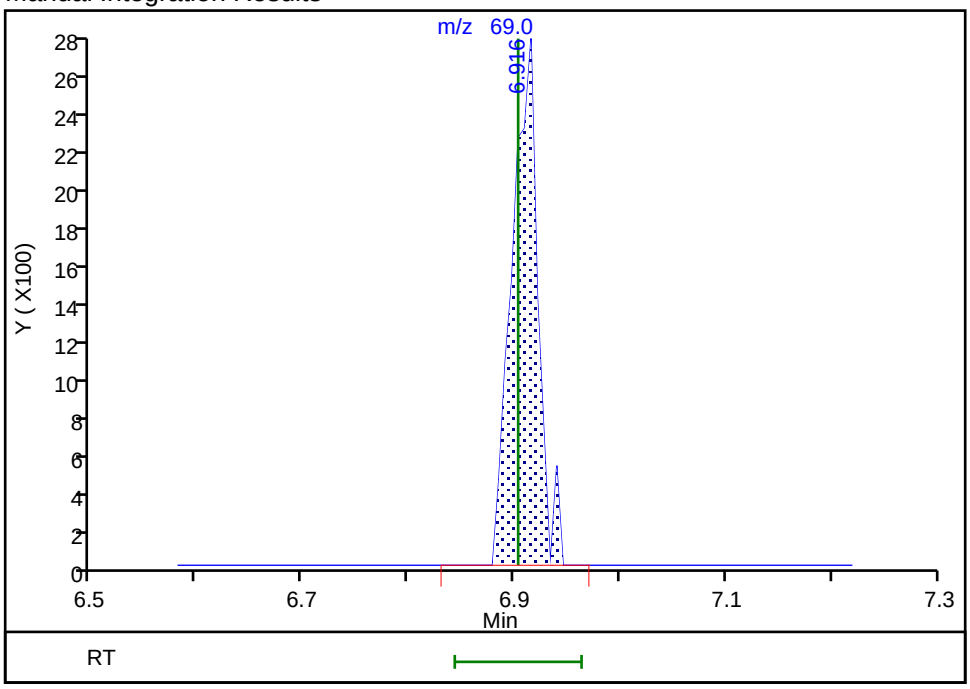
Processing Integration Results

RT: 6.92
Area: 4764
Amount: 0.657223
Amount Units: ug/L



Manual Integration Results

RT: 6.92
Area: 4764
Amount: 1.182213
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:05:27
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1605.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 28-Jul-2021 18:37:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0100106-008
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:44:37 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 10:08:00

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	4.999	4.999	0.000	98	145851	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	85	299170	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	93	329078	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.427	0.000	58	206702	25.0	24.5	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.731	4.725	0.006	91	127946	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	92	792235	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	91	254828	25.0	24.5	
10 Dichlorodifluoromethane	85	1.081	1.087	-0.006	84	19053	2.00	1.84	
12 Chloromethane	50	1.240	1.240	0.000	95	31828	2.00	2.04	
13 Vinyl chloride	62	1.319	1.319	0.000	78	26304	2.00	1.99	
151 Butadiene	54	1.319	1.319	0.000	91	24715	2.00	1.93	
14 Bromomethane	94	1.562	1.574	-0.012	80	15158	2.00	1.99	
15 Chloroethane	64	1.629	1.641	-0.012	80	15216	2.00	1.95	M
16 Dichlorofluoromethane	67	1.836	1.842	-0.006	76	32918	2.00	1.89	
17 Trichlorofluoromethane	101	1.836	1.854	-0.018	39	24936	2.00	1.84	
18 Ethyl ether	59	2.091	2.091	0.000	0	18935	2.00	1.92	M
20 Acrolein	56	2.262	2.262	0.000	59	6117	10.0	10.8	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.286	2.292	-0.006	50	14228	2.00	1.73	
22 1,1-Dichloroethene	96	2.304	2.304	0.000	90	14241	2.00	1.72	
23 Acetone	43	2.420	2.414	0.006	93	50440	10.0	10.4	
25 Iodomethane	142	2.456	2.456	0.000	93	30326	2.00	1.88	
26 Carbon disulfide	76	2.487	2.493	-0.006	96	51178	2.00	1.80	
28 3-Chloro-1-propene	41	2.645	2.651	-0.006	81	33596	2.00	1.83	
27 Methyl acetate	43	2.700	2.700	0.000	97	41560	4.00	3.96	
30 Methylene Chloride	84	2.797	2.797	0.000	85	24070	2.00	1.84	
31 2-Methyl-2-propanol	59	2.967	2.967	0.000	75	20391	20.0	17.5	M
32 Methyl tert-butyl ether	73	2.992	2.992	0.000	91	64752	2.00	1.90	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	87	17830	2.00	1.80	
33 Acrylonitrile	53	3.071	3.071	0.000	98	112769	20.0	19.5	
35 Hexane	57	3.198	3.198	0.000	92	26682	2.00	1.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.417	3.417	0.000	77	34737	2.00	1.86	
37 Vinyl acetate	43	3.478	3.478	0.000	94	60752	4.00	3.60	
44 2,2-Dichloropropane	77	3.922	3.922	0.000	70	15496	2.00	1.78	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	68	20385	2.00	1.85	
43 2-Butanone (MEK)	43	4.008	4.001	0.007	97	65318	10.0	10.3	
48 Chlorobromomethane	128	4.190	4.196	-0.006	84	11372	2.00	1.84	
49 Tetrahydrofuran	42	4.208	4.208	0.000	85	20110	4.00	4.18	
50 Chloroform	83	4.275	4.275	0.000	72	33917	2.00	1.95	
51 1,1,1-Trichloroethane	97	4.373	4.379	-0.006	68	22889	2.00	1.75	
52 Cyclohexane	56	4.379	4.379	0.000	83	35174	2.00	1.80	
55 Carbon tetrachloride	117	4.506	4.513	-0.006	67	14609	2.00	1.63	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	80	23964	2.00	1.91	
57 Benzene	78	4.725	4.725	0.000	54	70630	2.00	1.88	
53 Isobutyl alcohol	43	4.780	4.774	0.006	40	16629	50.0	52.4	
58 1,2-Dichloroethane	62	4.798	4.798	0.000	72	31835	2.00	2.06	
59 n-Heptane	43	4.914	4.914	0.000	90	31377	2.00	1.93	M
62 Trichloroethene	95	5.340	5.334	0.006	86	18957	2.00	1.96	
64 Methylcyclohexane	83	5.443	5.443	0.000	80	30240	2.00	1.82	
65 1,2-Dichloropropane	63	5.577	5.571	0.006	78	20221	2.00	2.06	
67 Dibromomethane	93	5.711	5.711	0.000	76	11350	2.00	1.90	
66 1,4-Dioxane	88	5.723	5.717	0.006	0	4765	40.0	42.4	M
68 Dichlorobromomethane	83	5.869	5.869	0.000	85	17852	2.00	1.80	
69 2-Chloroethyl vinyl ether	63	6.161	6.155	0.006	83	12514	2.00	1.98	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	66	25444	2.00	1.98	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	98	129389	10.0	9.44	
74 Toluene	92	6.563	6.557	0.006	73	48392	2.00	1.93	
77 trans-1,3-Dichloropropene	75	6.855	6.849	0.006	79	20191	2.00	1.80	
75 Ethyl methacrylate	69	6.909	6.903	0.006	62	14578	2.00	2.06	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	83	13056	2.00	1.88	
81 Tetrachloroethene	166	7.080	7.080	0.000	74	20043	2.00	1.87	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	94	28914	2.00	2.02	
80 2-Hexanone	43	7.274	7.268	0.006	97	82171	10.0	9.68	
83 Chlorodibromomethane	129	7.426	7.427	-0.001	61	11618	2.00	1.87	
84 Ethylene Dibromide	107	7.518	7.518	0.000	77	15600	2.00	1.88	
87 Chlorobenzene	112	7.992	7.992	0.000	92	55803	2.00	1.92	
88 Ethylbenzene	91	8.090	8.090	0.000	96	88206	2.00	1.87	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	31	13149	2.00	1.66	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	96	35650	2.00	1.90	
91 o-Xylene	106	8.631	8.631	0.000	95	35915	2.00	1.88	
92 Styrene	104	8.668	8.668	0.000	92	57807	2.00	1.88	
95 Bromoform	173	8.911	8.911	0.000	45	5777	2.00	1.95	
94 Isopropylbenzene	105	9.020	9.020	0.000	92	92454	2.00	1.85	
101 Bromobenzene	156	9.367	9.367	0.000	87	24707	2.00	1.96	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	58	22861	2.00	1.95	
99 N-Propylbenzene	91	9.464	9.465	-0.001	96	104651	2.00	1.89	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	54	8002	2.00	1.97	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	24	7332	2.00	2.01	
103 2-Chlorotoluene	126	9.562	9.562	0.000	92	22224	2.00	1.85	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	91	79389	2.00	1.87	
105 4-Chlorotoluene	126	9.684	9.684	0.000	93	24696	2.00	2.04	
106 tert-Butylbenzene	134	9.976	9.976	0.000	84	16619	2.00	1.74	
107 1,2,4-Trimethylbenzene	105	10.030	10.036	-0.006	52	84226	2.00	1.92	

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	10.195	10.195	0.000	88	95875	2.00	1.80	
111 1,3-Dichlorobenzene	146	10.328	10.322	0.006	94	49704	2.00	1.95	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	95	88761	2.00	1.82	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	78	51074	2.00	2.01	
115 n-Butylbenzene	91	10.736	10.736	0.000	93	76667	2.00	1.87	
116 1,2-Dichlorobenzene	146	10.779	10.773	0.007	89	50011	2.00	1.93	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	18	2923	2.00	1.88	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	88	36190	2.00	1.78	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	73	15576	2.00	1.90	
121 Naphthalene	128	12.409	12.409	0.000	94	105451	2.00	1.86	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	93	37546	2.00	1.88	
S 123 Total BTEX	1				0			9.46	
S 126 1,3-Dichloropropene, Total	1				0			3.78	
S 125 1,2-Dichloroethene, Total	1				0			3.66	
S 124 Xylenes, Total	1				0			3.78	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00465	Amount Added:	2.00	Units: uL	
8260 CORP mix_00211	Amount Added:	2.00	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

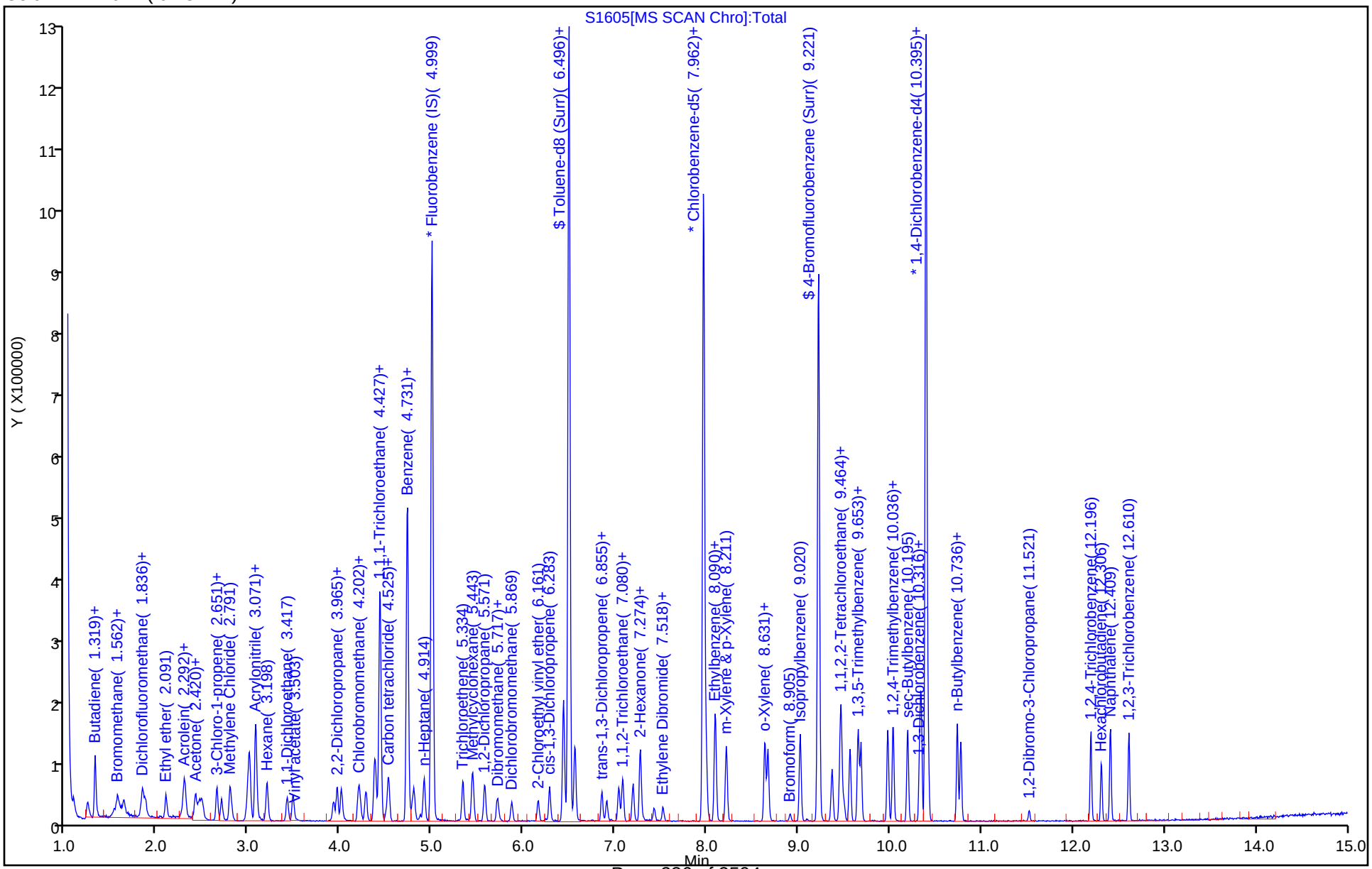
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1605.D

Injection Date:	28-Jul-2021 18:37:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 2			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

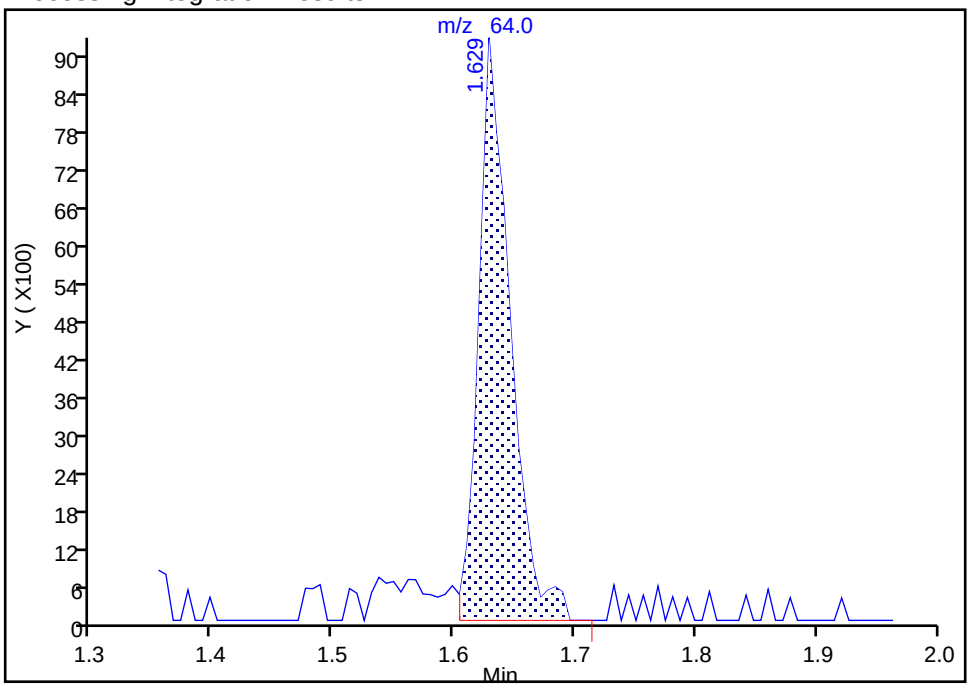
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Injection Date: 28-Jul-2021 18:37:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

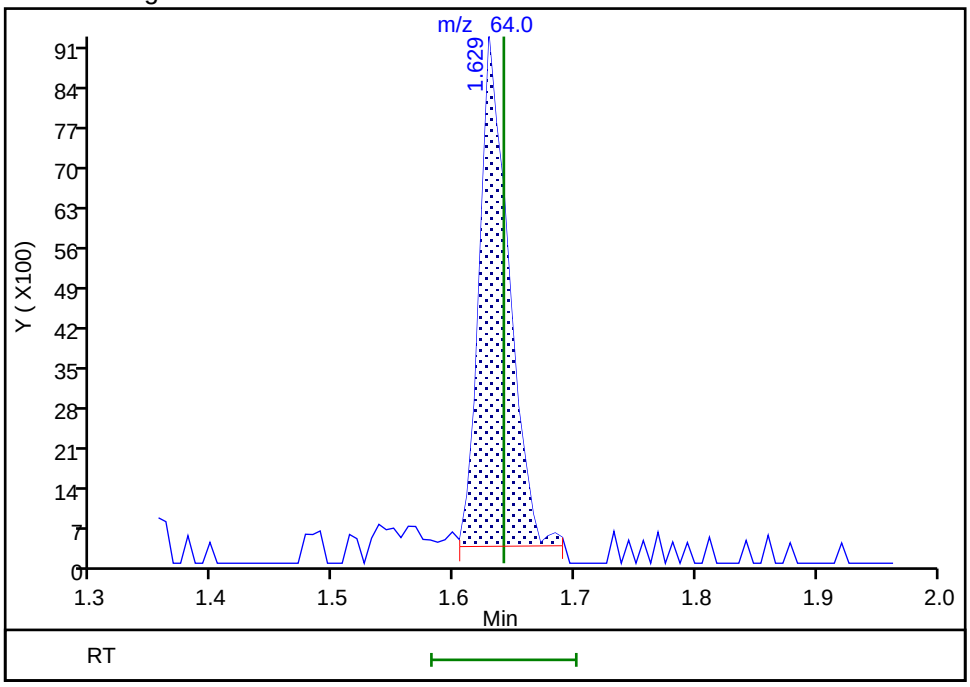
Processing Integration Results

RT: 1.63
Area: 16867
Amount: 2.129645
Amount Units: ug/L



Manual Integration Results

RT: 1.63
Area: 15216
Amount: 1.946549
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:06:48
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

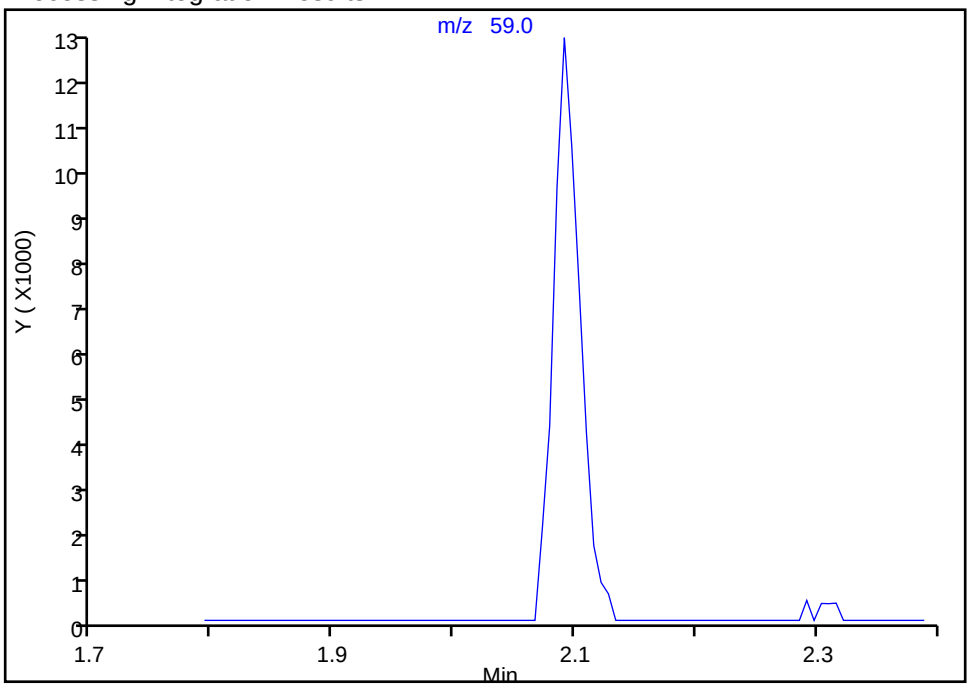
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Injection Date: 28-Jul-2021 18:37:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

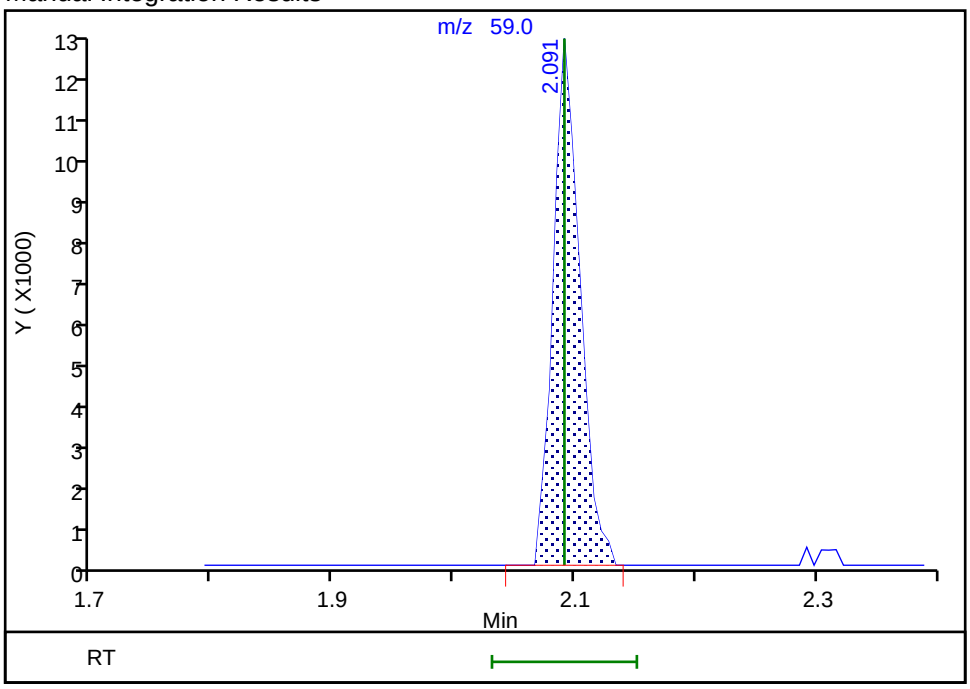
Not Detected
Expected RT: 2.09

Processing Integration Results



Manual Integration Results

RT: 2.09
Area: 18935
Amount: 1.918013
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:06:56
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

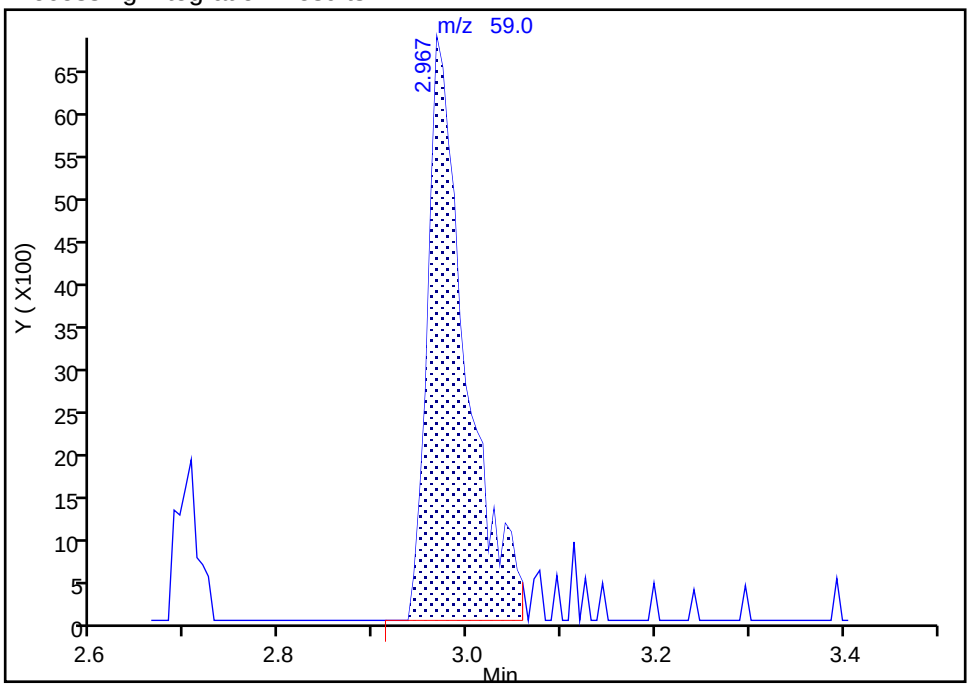
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Injection Date: 28-Jul-2021 18:37:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

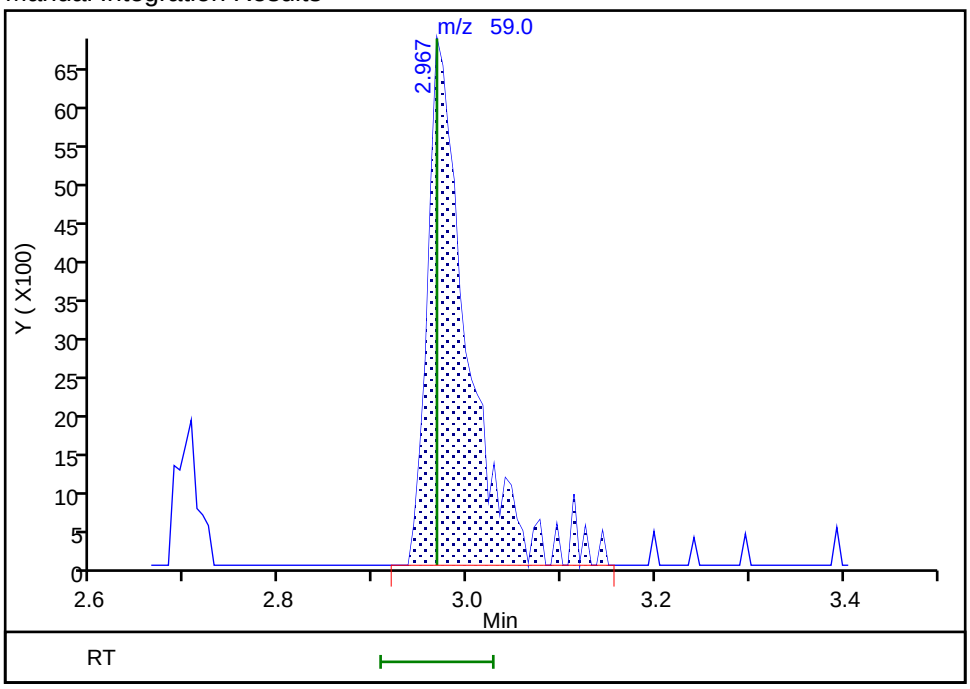
Processing Integration Results

RT: 2.97
Area: 19132
Amount: 16.942667
Amount Units: ug/L



Manual Integration Results

RT: 2.97
Area: 20391
Amount: 17.511442
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:07:15
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

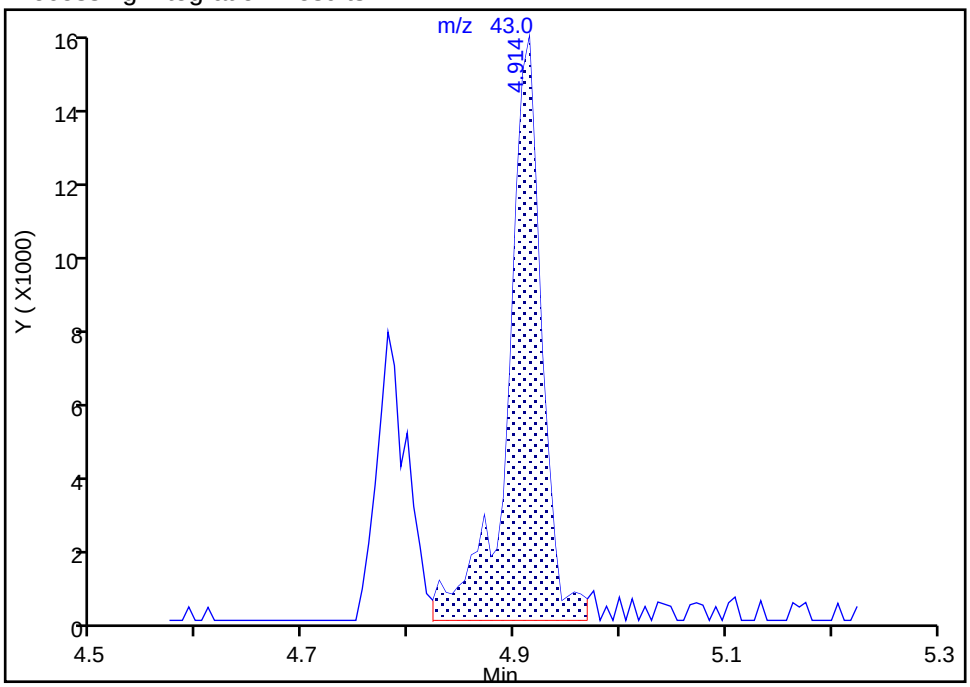
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Injection Date: 28-Jul-2021 18:37:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

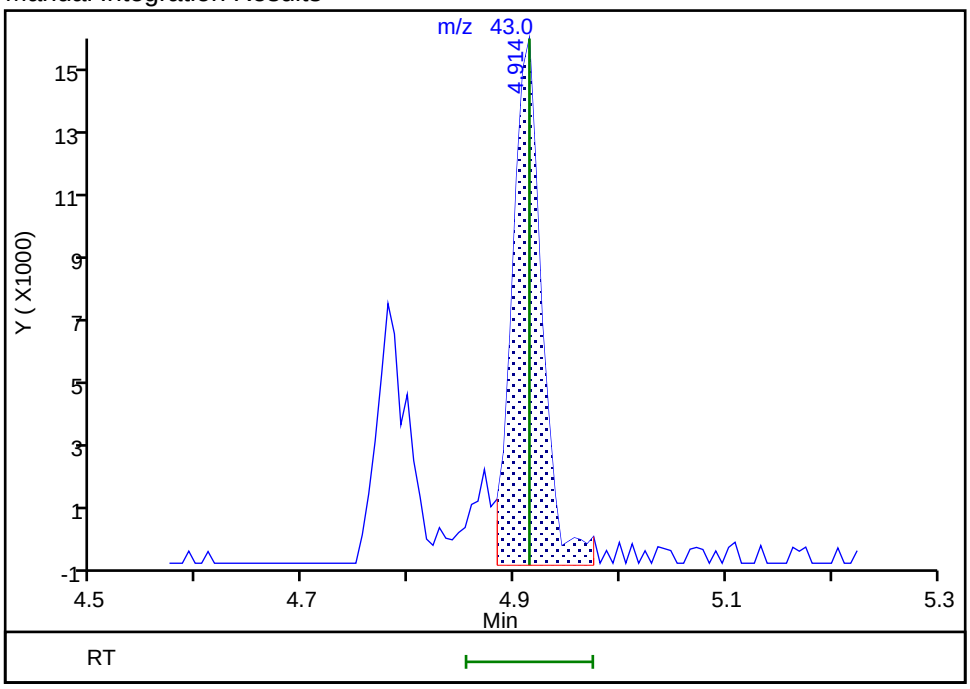
Processing Integration Results

RT: 4.91
Area: 35604
Amount: 2.158767
Amount Units: ug/L



Manual Integration Results

RT: 4.91
Area: 31377
Amount: 1.933443
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:07:36
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

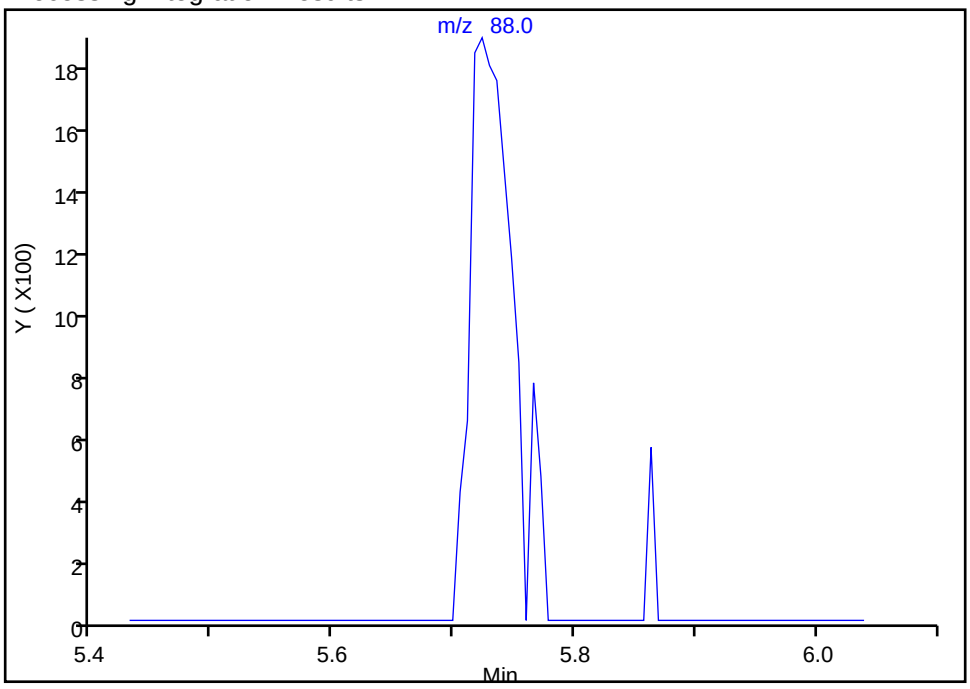
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Injection Date: 28-Jul-2021 18:37:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

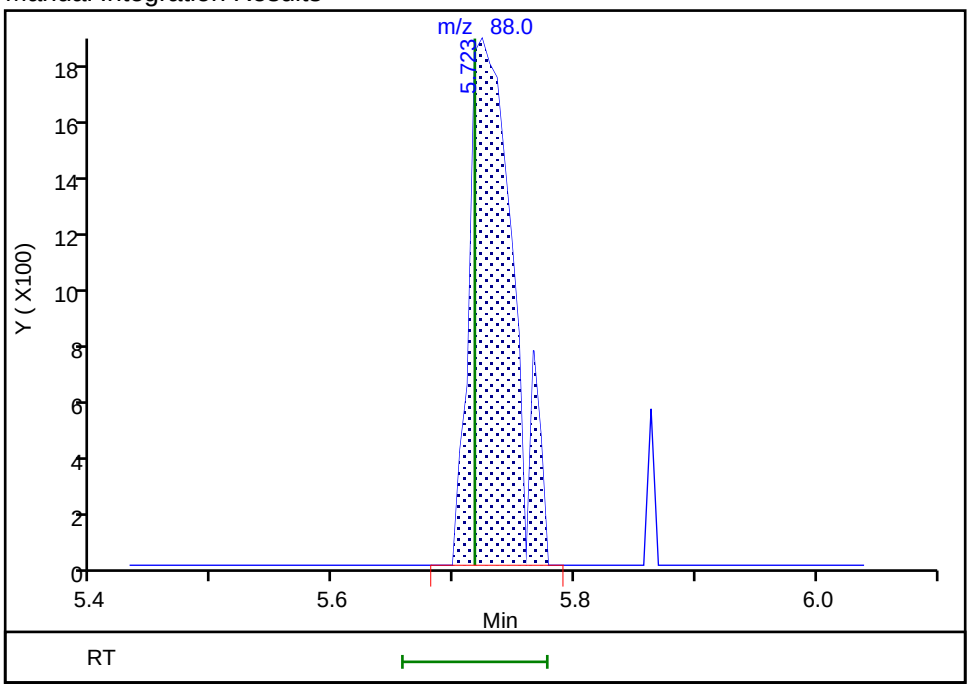
Not Detected
Expected RT: 5.72

Processing Integration Results



Manual Integration Results

RT: 5.72
Area: 4765
Amount: 42.364973
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:07:46
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1606.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 28-Jul-2021 19:00:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0100106-009
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:44:40 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 10:09:32

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	4.999	4.999	0.000	99	148745	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	85	297816	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	87	335194	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.427	0.000	57	208144	25.0	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.731	4.725	0.006	90	127093	25.0	24.7	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	92	798367	25.0	25.4	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	262245	25.0	25.4	
10 Dichlorodifluoromethane	85	1.081	1.087	-0.006	83	50805	5.00	4.82	
12 Chloromethane	50	1.246	1.240	0.006	88	78659	5.00	4.95	M
13 Vinyl chloride	62	1.319	1.319	0.000	47	65898	5.00	4.88	
151 Butadiene	54	1.319	1.319	0.000	95	64145	5.00	4.92	
14 Bromomethane	94	1.562	1.574	-0.012	90	35714	5.00	4.59	
15 Chloroethane	64	1.635	1.641	-0.006	98	40211	5.00	5.04	
16 Dichlorofluoromethane	67	1.842	1.842	0.000	80	85606	5.00	4.83	
17 Trichlorofluoromethane	101	1.854	1.854	0.000	64	64923	5.00	4.69	
18 Ethyl ether	59	2.091	2.091	0.000	93	48603	5.00	4.83	
20 Acrolein	56	2.268	2.262	0.006	83	14299	25.0	24.7	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.292	0.000	62	40393	5.00	4.81	
22 1,1-Dichloroethene	96	2.304	2.304	0.000	94	39938	5.00	4.73	
23 Acetone	43	2.414	2.414	0.000	0	117372	25.0	23.8	M
25 Iodomethane	142	2.456	2.456	0.000	94	78001	5.00	4.75	
26 Carbon disulfide	76	2.493	2.493	0.000	99	133171	5.00	4.60	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	81	85664	5.00	4.57	
27 Methyl acetate	43	2.700	2.700	0.000	97	102665	10.0	9.58	
30 Methylene Chloride	84	2.797	2.797	0.000	91	56837	5.00	5.00	
31 2-Methyl-2-propanol	59	2.979	2.967	0.012	53	55631	50.0	46.8	M
32 Methyl tert-butyl ether	73	2.992	2.992	0.000	93	160051	5.00	4.60	
34 trans-1,2-Dichloroethene	96	3.004	3.010	-0.006	71	47389	5.00	4.70	
33 Acrylonitrile	53	3.071	3.071	0.000	97	288383	50.0	48.8	
35 Hexane	57	3.198	3.198	0.000	92	74272	5.00	4.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.417	3.417	0.000	83	90762	5.00	4.78	
37 Vinyl acetate	43	3.478	3.478	0.000	96	163559	10.0	9.50	
44 2,2-Dichloropropane	77	3.928	3.922	0.006	83	41510	5.00	4.69	
45 cis-1,2-Dichloroethene	96	3.959	3.965	-0.006	80	53872	5.00	4.81	
43 2-Butanone (MEK)	43	4.008	4.001	0.007	97	163891	25.0	25.5	
48 Chlorobromomethane	128	4.190	4.196	-0.006	91	31532	5.00	5.00	
49 Tetrahydrofuran	42	4.208	4.208	0.000	93	52899	10.0	10.8	
50 Chloroform	83	4.275	4.275	0.000	81	85729	5.00	4.82	
51 1,1,1-Trichloroethane	97	4.373	4.379	-0.006	75	63296	5.00	4.73	
52 Cyclohexane	56	4.379	4.379	0.000	95	92824	5.00	4.65	
55 Carbon tetrachloride	117	4.506	4.513	-0.006	76	38640	5.00	4.22	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	85	63274	5.00	4.96	
57 Benzene	78	4.725	4.725	0.000	78	188806	5.00	4.93	
53 Isobutyl alcohol	43	4.780	4.774	0.006	57	39837	125.0	101.8	
58 1,2-Dichloroethane	62	4.798	4.798	0.000	55	77136	5.00	4.89	
59 n-Heptane	43	4.914	4.914	0.000	90	81491	5.00	4.92	
62 Trichloroethene	95	5.334	5.334	0.000	89	47214	5.00	4.80	
64 Methylcyclohexane	83	5.437	5.443	-0.006	93	80466	5.00	4.74	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	85	49115	5.00	4.92	
67 Dibromomethane	93	5.705	5.711	-0.006	84	29491	5.00	4.83	
66 1,4-Dioxane	88	5.723	5.717	0.006	0	12104	100.0	108.1	M
68 Dichlorobromomethane	83	5.869	5.869	0.000	91	48066	5.00	4.76	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	84	33020	5.00	5.13	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	82	62744	5.00	4.78	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	99	344014	25.0	25.2	
74 Toluene	92	6.557	6.557	0.000	80	119771	5.00	4.80	
77 trans-1,3-Dichloropropene	75	6.849	6.849	0.000	97	55682	5.00	4.99	
75 Ethyl methacrylate	69	6.909	6.903	0.006	85	39178	5.00	4.50	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	88	34710	5.00	5.02	
81 Tetrachloroethene	166	7.080	7.080	0.000	82	52503	5.00	4.92	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	94	73912	5.00	5.19	
80 2-Hexanone	43	7.268	7.268	0.000	97	216082	25.0	25.6	
83 Chlorodibromomethane	129	7.427	7.427	-0.001	76	28570	5.00	4.63	
84 Ethylene Dibromide	107	7.518	7.518	0.000	85	40474	5.00	4.89	
87 Chlorobenzene	112	7.992	7.992	0.000	92	142254	5.00	4.93	
88 Ethylbenzene	91	8.090	8.090	0.000	98	229593	5.00	4.89	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	37	32799	5.00	4.17	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	98	90497	5.00	4.84	
91 o-Xylene	106	8.631	8.631	0.000	98	94152	5.00	4.95	
92 Styrene	104	8.668	8.668	0.000	93	151259	5.00	4.93	
95 Bromoform	173	8.905	8.911	-0.006	75	15253	5.00	4.33	
94 Isopropylbenzene	105	9.020	9.020	0.000	94	244057	5.00	4.81	
101 Bromobenzene	156	9.367	9.367	0.000	89	64477	5.00	5.03	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	56	60564	5.00	5.08	
99 N-Propylbenzene	91	9.465	9.465	-0.001	96	275645	5.00	4.88	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	62	21518	5.00	5.19	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	1	18160	5.00	4.88	
103 2-Chlorotoluene	126	9.562	9.562	0.000	96	61720	5.00	5.04	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	95	209555	5.00	4.85	
105 4-Chlorotoluene	126	9.684	9.684	0.000	95	62559	5.00	5.07	
106 tert-Butylbenzene	134	9.976	9.976	0.000	90	49467	5.00	5.09	
107 1,2,4-Trimethylbenzene	105	10.030	10.036	-0.006	58	220512	5.00	4.94	

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	10.195	10.195	0.000	91	264482	5.00	4.87	
111 1,3-Dichlorobenzene	146	10.328	10.322	0.006	98	125480	5.00	4.84	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	96	236734	5.00	4.78	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	90	127502	5.00	4.94	
115 n-Butylbenzene	91	10.736	10.736	0.000	94	199125	5.00	4.78	
116 1,2-Dichlorobenzene	146	10.772	10.773	0.000	92	127305	5.00	4.82	
117 1,2-Dibromo-3-Chloropropane	75	11.515	11.521	-0.006	40	7011	5.00	4.43	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	93	98480	5.00	4.77	
120 Hexachlorobutadiene	225	12.306	12.312	-0.006	91	40260	5.00	4.83	
121 Naphthalene	128	12.409	12.409	0.000	96	273904	5.00	4.73	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	93	94659	5.00	4.65	
S 123 Total BTEX	1				0			24.4	
S 126 1,3-Dichloropropene, Total	1				0			9.77	
S 125 1,2-Dichloroethene, Total	1				0			9.51	
S 124 Xylenes, Total	1				0			9.79	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00465	Amount Added:	5.00	Units: uL	
8260 CORP mix_00211	Amount Added:	5.00	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

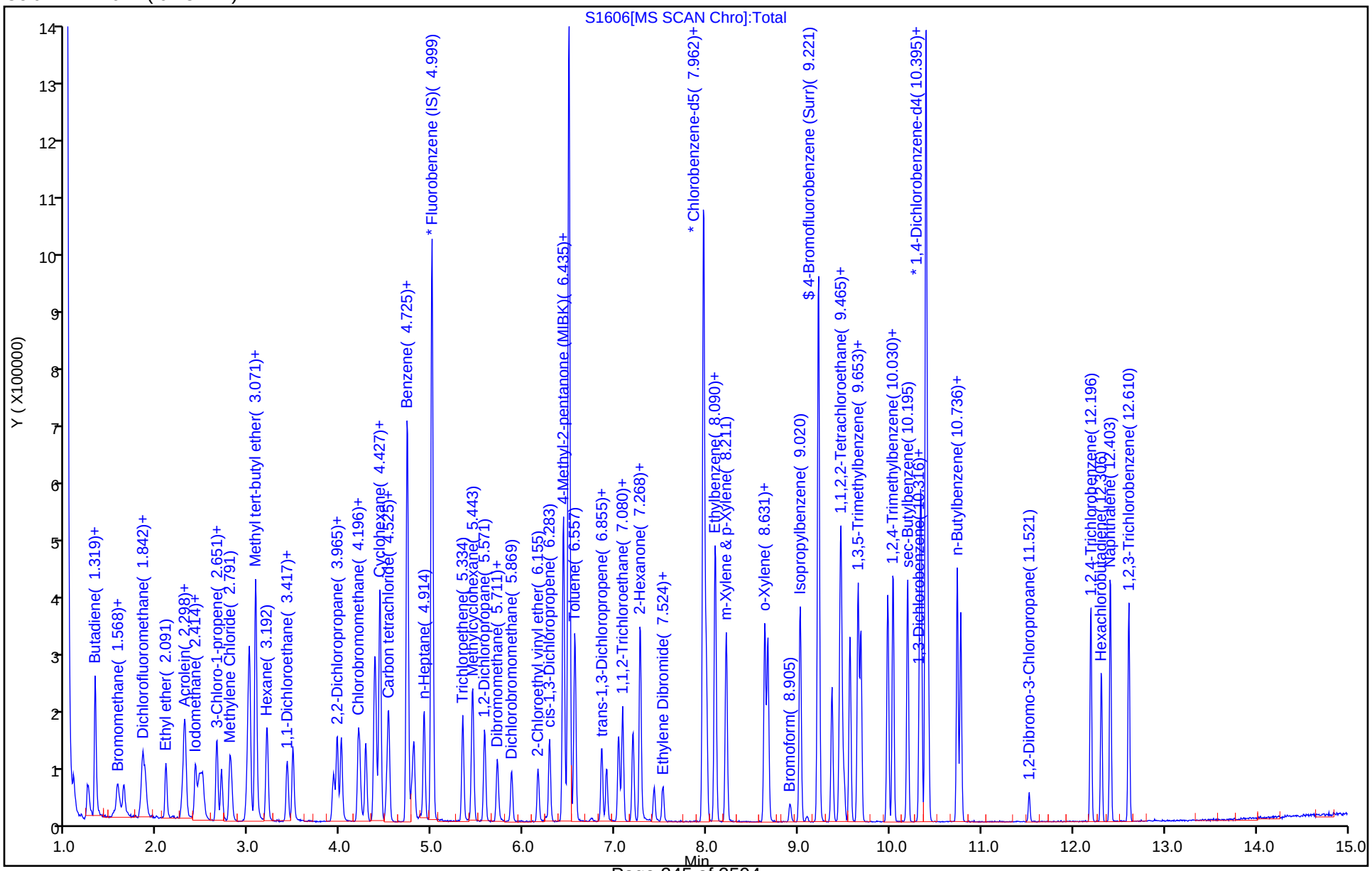
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Eurofins TestAmerica, Buffalo

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Injection Date:	28-Jul-2021 19:00:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 3			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

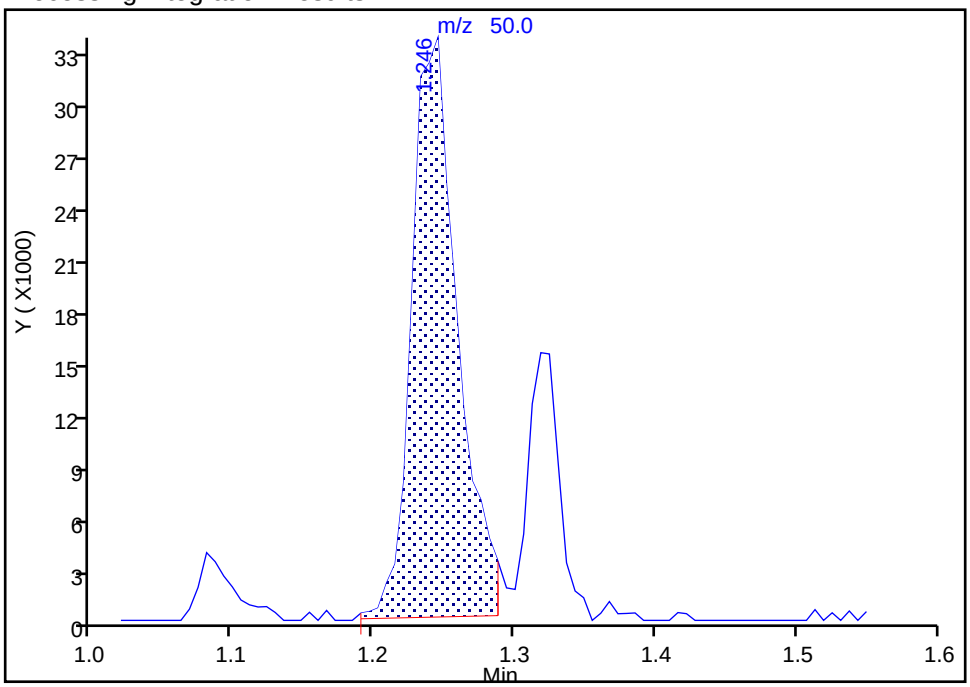
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Injection Date: 28-Jul-2021 19:00:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

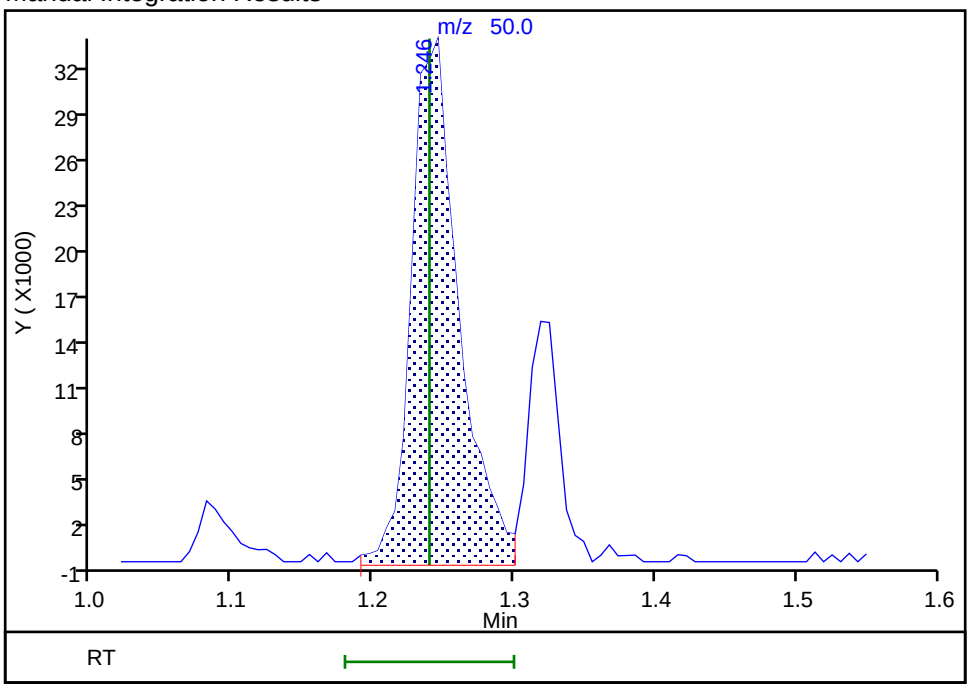
Processing Integration Results

RT: 1.25
Area: 74687
Amount: 4.741705
Amount Units: ug/L



Manual Integration Results

RT: 1.25
Area: 78659
Amount: 4.951795
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:08:21
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

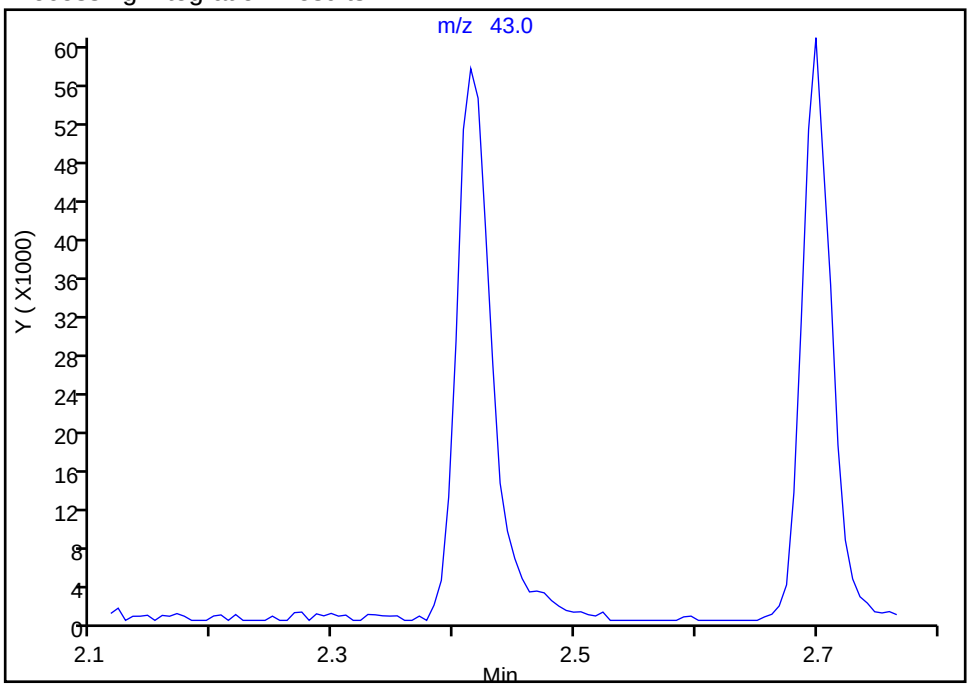
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Injection Date: 28-Jul-2021 19:00:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

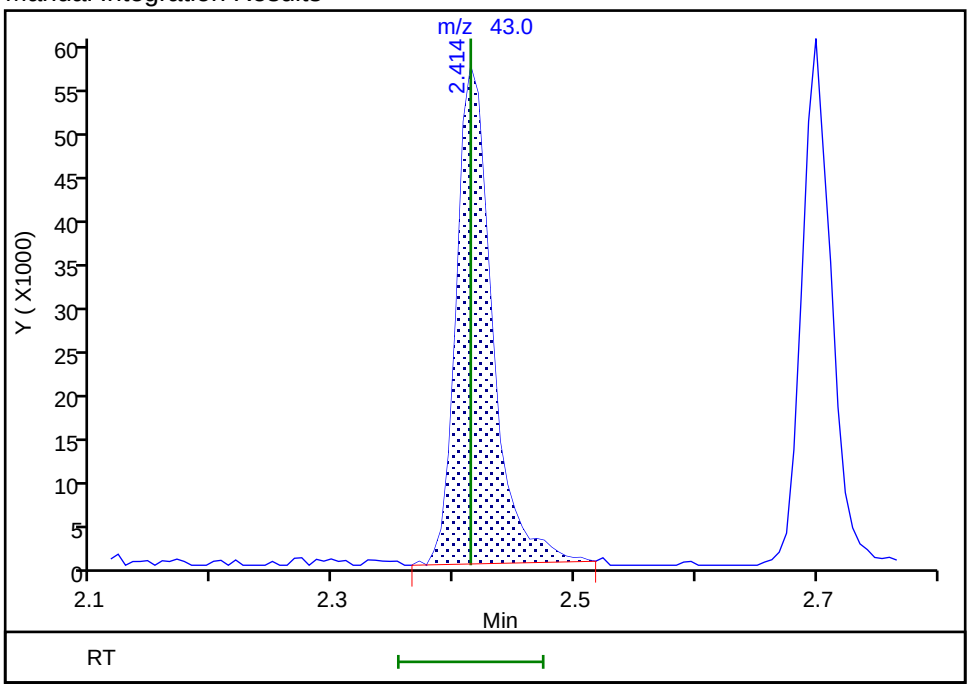
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 117372
Amount: 23.824433
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:08:36
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

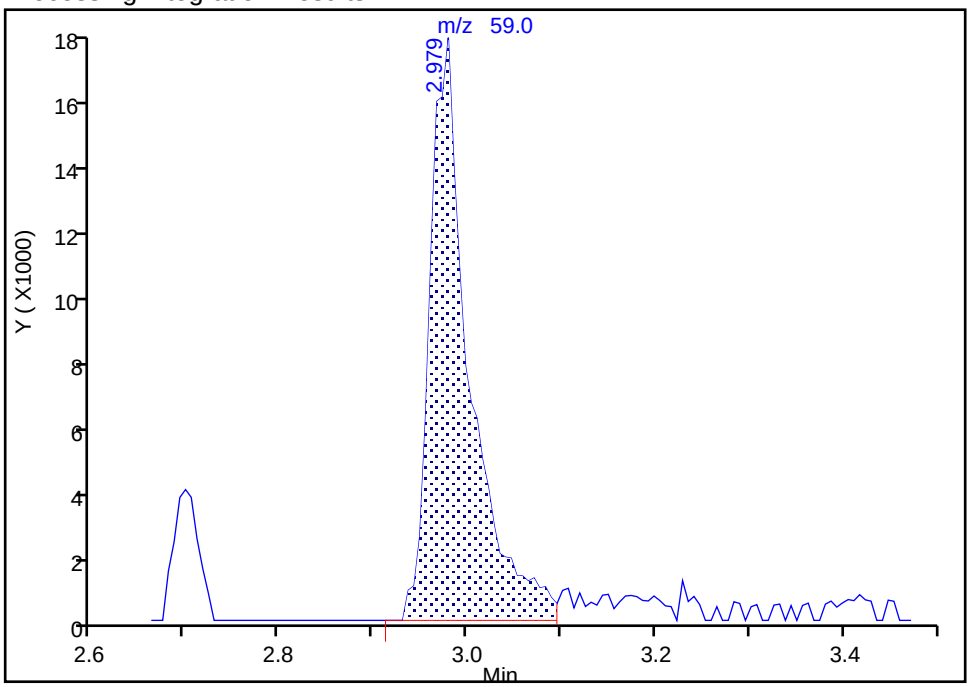
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Injection Date: 28-Jul-2021 19:00:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

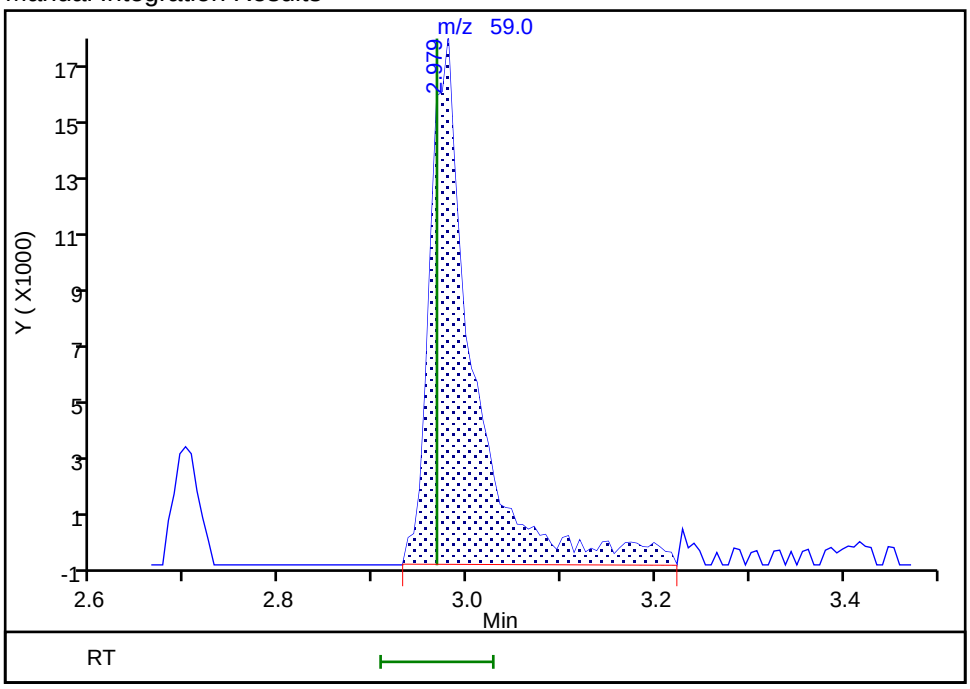
Processing Integration Results

RT: 2.98
Area: 51188
Amount: 44.140861
Amount Units: ug/L



Manual Integration Results

RT: 2.98
Area: 55631
Amount: 46.845436
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:08:53
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

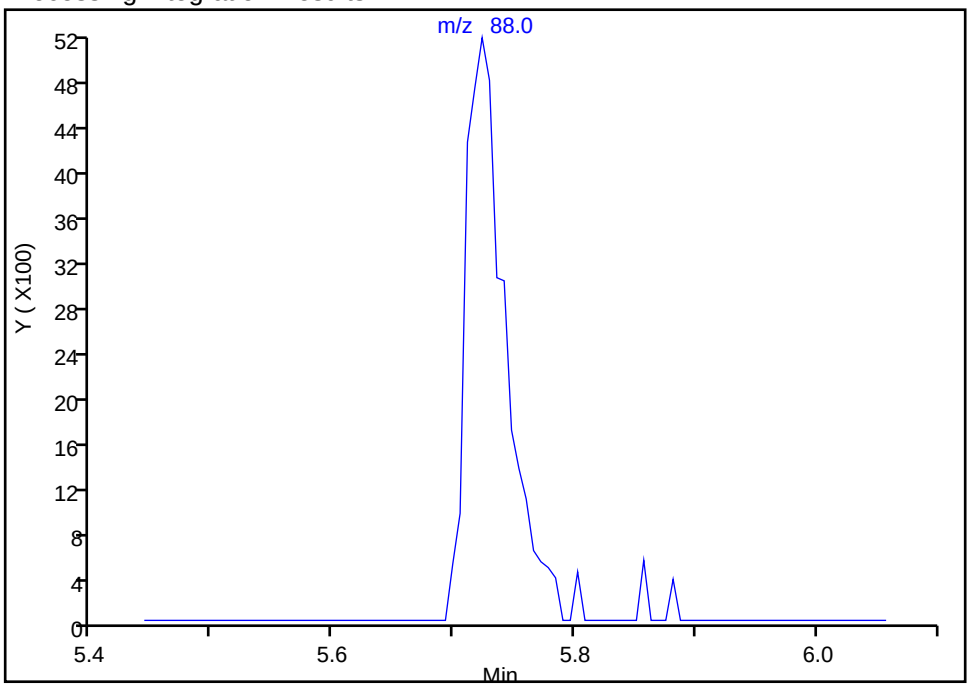
Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1606.D
Injection Date: 28-Jul-2021 19:00:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

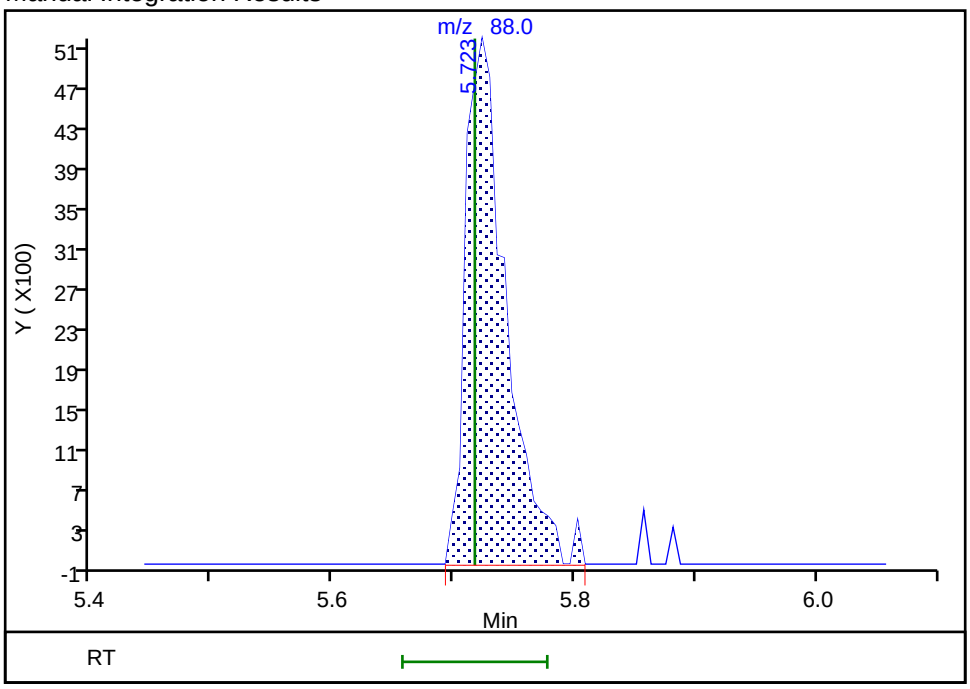
Not Detected
Expected RT: 5.72

Processing Integration Results



Manual Integration Results

RT: 5.72
Area: 12104
Amount: 108.1043
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:09:18
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1607.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 28-Jul-2021 19:23:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0100106-010
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:44:44 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 10:09:45

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	4.999	4.999	0.000	98	141299	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	85	287994	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	70	324636	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.427	0.006	56	209823	25.0	25.7	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.731	4.725	0.006	79	126541	25.0	25.9	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	90	764163	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr)	174	9.215	9.221	-0.006	89	250982	25.0	25.1	
10 Dichlorodifluoromethane	85	1.087	1.087	0.000	86	85696	10.0	8.56	M
12 Chloromethane	50	1.239	1.240	-0.001	89	144614	10.0	9.58	
13 Vinyl chloride	62	1.319	1.319	0.000	50	119655	10.0	9.33	
151 Butadiene	54	1.319	1.319	0.000	69	112408	10.0	9.07	
14 Bromomethane	94	1.580	1.574	0.006	89	76127	10.0	10.3	
15 Chloroethane	64	1.641	1.641	0.000	93	77569	10.0	10.2	
16 Dichlorofluoromethane	67	1.842	1.842	0.000	81	163232	10.0	9.69	
17 Trichlorofluoromethane	101	1.854	1.854	0.000	56	122397	10.0	9.31	
18 Ethyl ether	59	2.097	2.091	0.006	93	95087	10.0	9.94	
20 Acrolein	56	2.268	2.262	0.006	93	27025	50.0	49.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.292	0.000	69	73758	10.0	9.25	
22 1,1-Dichloroethene	96	2.304	2.304	0.000	89	78208	10.0	9.75	
23 Acetone	43	2.414	2.414	0.000	0	219084	50.0	46.8	M
25 Iodomethane	142	2.456	2.456	0.000	98	148825	10.0	9.55	
26 Carbon disulfide	76	2.487	2.493	-0.006	99	259077	10.0	9.42	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	85	172363	10.0	9.68	
27 Methyl acetate	43	2.700	2.700	0.000	97	198464	20.0	19.5	
30 Methylene Chloride	84	2.797	2.797	0.000	97	102646	10.0	10.0	
31 2-Methyl-2-propanol	59	2.973	2.967	0.006	79	110068	100.0	97.6	
32 Methyl tert-butyl ether	73	2.998	2.992	0.006	94	323396	10.0	9.78	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	88	94066	10.0	9.82	
33 Acrylonitrile	53	3.071	3.071	0.000	99	568343	100.0	101.2	
35 Hexane	57	3.198	3.198	0.000	95	134327	10.0	9.44	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.417	3.417	0.000	86	178830	10.0	9.91	
37 Vinyl acetate	43	3.478	3.478	0.000	97	318891	20.0	19.5	
44 2,2-Dichloropropane	77	3.928	3.922	0.006	88	80505	10.0	9.57	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	68	105278	10.0	9.89	
43 2-Butanone (MEK)	43	4.008	4.001	0.007	93	306765	50.0	50.1	
48 Chlorobromomethane	128	4.196	4.196	0.000	92	58151	10.0	9.70	
49 Tetrahydrofuran	42	4.208	4.208	0.000	91	91629	20.0	19.7	
50 Chloroform	83	4.275	4.275	0.000	82	165486	10.0	9.80	
51 1,1,1-Trichloroethane	97	4.373	4.379	-0.006	80	121874	10.0	9.59	
52 Cyclohexane	56	4.379	4.379	0.000	94	176757	10.0	9.31	
55 Carbon tetrachloride	117	4.506	4.513	-0.006	89	80265	10.0	9.23	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	88	119093	10.0	9.82	
57 Benzene	78	4.725	4.725	0.000	93	359860	10.0	9.89	
53 Isobutyl alcohol	43	4.780	4.774	0.006	60	89855	250.0	220.0	
58 1,2-Dichloroethane	62	4.804	4.798	0.006	85	141648	10.0	9.46	
59 n-Heptane	43	4.914	4.914	0.000	96	150831	10.0	9.59	
62 Trichloroethene	95	5.334	5.334	0.000	90	90896	10.0	9.72	
64 Methylcyclohexane	83	5.443	5.443	0.000	94	152009	10.0	9.42	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	88	93958	10.0	9.90	
67 Dibromomethane	93	5.711	5.711	0.000	85	56646	10.0	9.77	
66 1,4-Dioxane	88	5.723	5.717	0.006	57	20027	200.0	185.0	
68 Dichlorobromomethane	83	5.869	5.869	0.000	96	93555	10.0	9.75	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	90	62945	10.0	10.3	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	84	122121	10.0	9.79	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	98	659435	50.0	50.0	
74 Toluene	92	6.557	6.557	0.000	90	236563	10.0	9.80	
77 trans-1,3-Dichloropropene	75	6.849	6.849	0.000	94	108398	10.0	10.0	
75 Ethyl methacrylate	69	6.903	6.903	0.000	70	80159	10.0	8.82	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	88	65961	10.0	9.86	
81 Tetrachloroethene	166	7.080	7.080	0.000	83	100048	10.0	9.69	
82 1,3-Dichloropropane	76	7.189	7.195	-0.006	96	132237	10.0	9.60	
80 2-Hexanone	43	7.268	7.268	0.000	98	415507	50.0	50.8	
83 Chlorodibromomethane	129	7.426	7.427	-0.001	86	58687	10.0	9.83	
84 Ethylene Dibromide	107	7.518	7.518	0.000	95	81304	10.0	10.2	
87 Chlorobenzene	112	7.992	7.992	0.000	94	269601	10.0	9.65	
88 Ethylbenzene	91	8.090	8.090	0.000	98	432057	10.0	9.52	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	38	69137	10.0	9.09	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	99	176807	10.0	9.78	
91 o-Xylene	106	8.631	8.631	0.000	97	179718	10.0	9.77	
92 Styrene	104	8.668	8.668	0.000	91	285572	10.0	9.63	
95 Bromoform	173	8.911	8.911	0.000	89	31867	10.0	8.74	
94 Isopropylbenzene	105	9.020	9.020	0.000	95	474783	10.0	9.65	
101 Bromobenzene	156	9.367	9.367	0.000	92	121692	10.0	9.80	
97 1,1,2,2-Tetrachloroethane	83	9.446	9.452	-0.006	79	114683	10.0	9.93	
99 N-Propylbenzene	91	9.464	9.465	-0.001	97	527737	10.0	9.64	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	62	40718	10.0	10.1	
98 trans-1,4-Dichloro-2-butene	53	9.495	9.501	-0.006	77	35608	10.0	9.88	
103 2-Chlorotoluene	126	9.562	9.562	0.000	97	119408	10.0	10.1	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	89	408569	10.0	9.77	
105 4-Chlorotoluene	126	9.683	9.684	-0.001	95	113093	10.0	9.47	
106 tert-Butylbenzene	134	9.976	9.976	0.000	90	92803	10.0	9.85	
107 1,2,4-Trimethylbenzene	105	10.030	10.036	-0.006	56	423249	10.0	9.79	

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	10.195	10.195	-0.001	93	507972	10.0	9.66	
111 1,3-Dichlorobenzene	146	10.322	10.322	0.000	98	235862	10.0	9.38	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	95	450453	10.0	9.39	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	93	242444	10.0	9.69	
115 n-Butylbenzene	91	10.736	10.736	0.000	95	383864	10.0	9.51	
116 1,2-Dichlorobenzene	146	10.772	10.773	0.000	93	243625	10.0	9.53	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	59	14298	10.0	9.34	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	93	191882	10.0	9.59	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	91	76810	10.0	9.51	
121 Naphthalene	128	12.409	12.409	0.000	97	554759	10.0	9.90	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	93	191864	10.0	9.74	
S 123 Total BTEX	1				0			48.8	
S 126 1,3-Dichloropropene, Total	1				0			19.8	
S 125 1,2-Dichloroethene, Total	1				0			19.7	
S 124 Xylenes, Total	1				0			19.6	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00465	Amount Added:	5.00	Units: uL	
8260 CORP mix_00211	Amount Added:	5.00	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

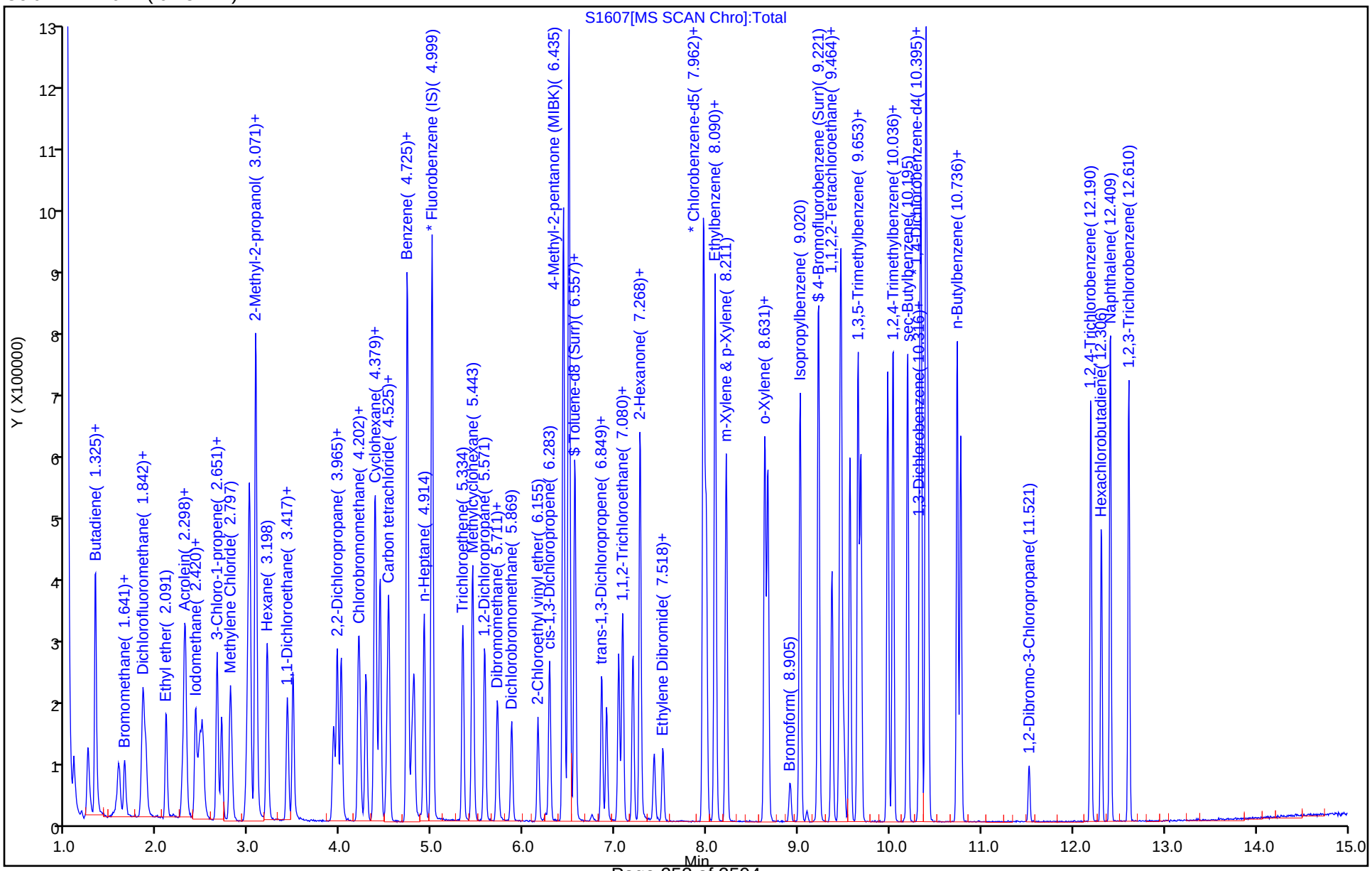
Report Date: 29-Jul-2021 10:44:45 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1607.D

Injection Date:	28-Jul-2021 19:23:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 4			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

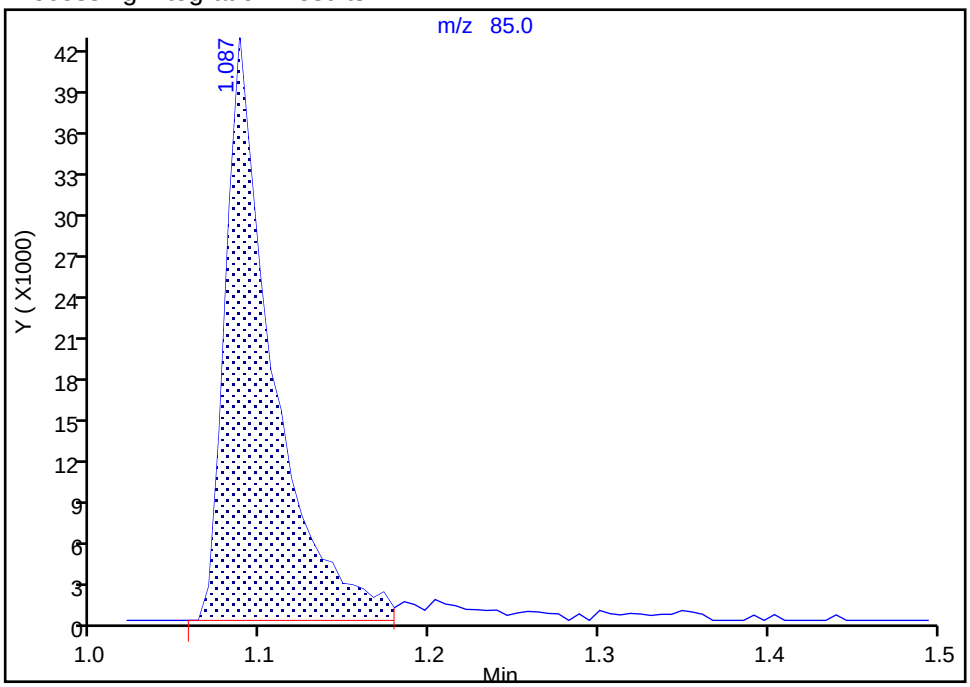
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Injection Date: 28-Jul-2021 19:23:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

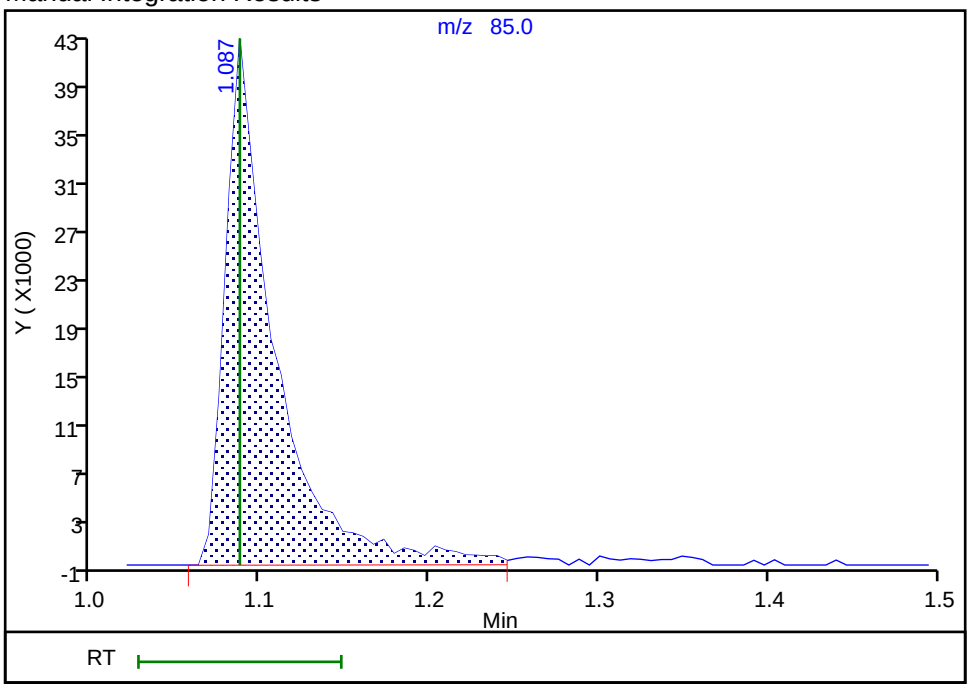
Processing Integration Results

RT: 1.09
Area: 81926
Amount: 8.219112
Amount Units: ug/L



Manual Integration Results

RT: 1.09
Area: 85696
Amount: 8.556877
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:10:07
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

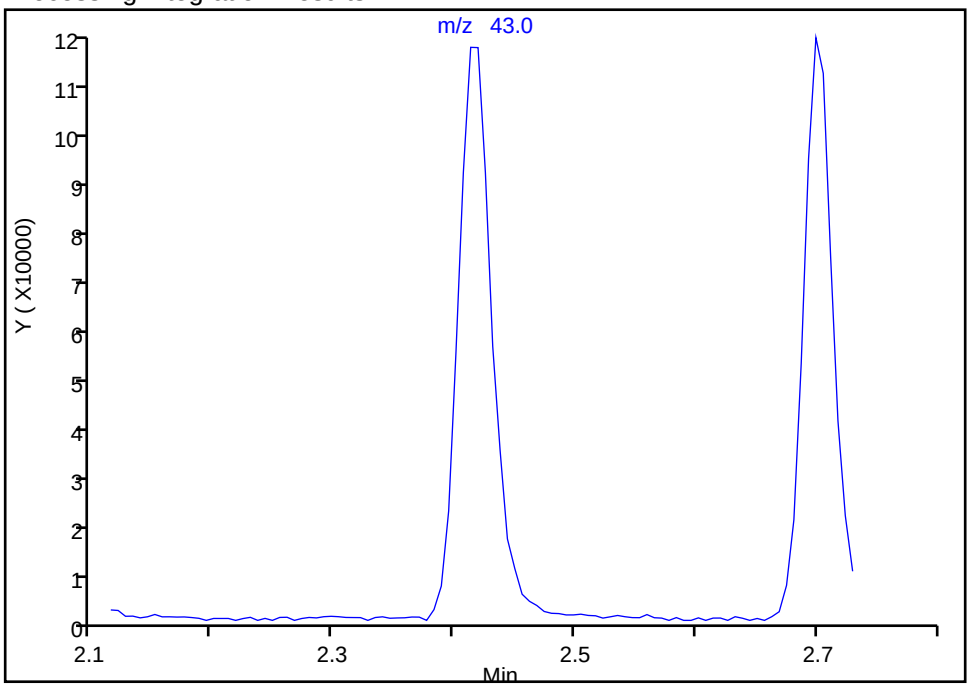
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Injection Date: 28-Jul-2021 19:23:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

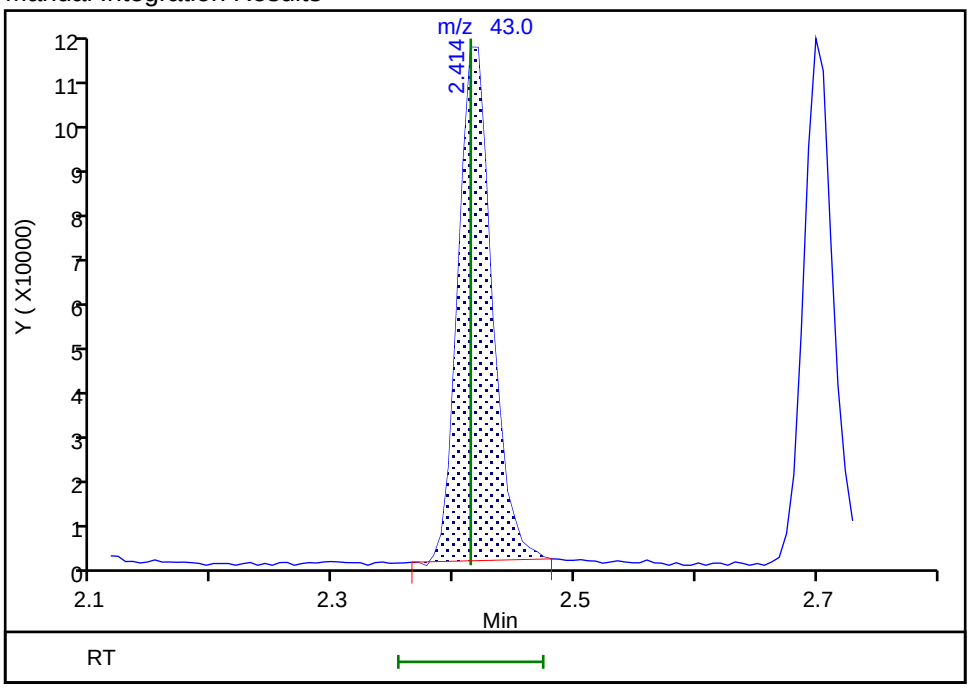
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 219084
Amount: 46.813597
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:10:21
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1608.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 28-Jul-2021 19:46:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0100106-011
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:44:48 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 09:58:42

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	4.999	4.999	0.000	98	144335	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	85	287378	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	53	324300	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.427	0.000	56	211682	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.725	4.725	0.000	50	124670	25.0	24.9	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	76	753418	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	93	248330	25.0	24.9	
10 Dichlorodifluoromethane	85	1.087	1.087	0.000	88	279276	25.0	27.3	
12 Chloromethane	50	1.240	1.240	0.000	89	368628	25.0	23.9	
13 Vinyl chloride	62	1.319	1.319	0.000	47	331605	25.0	25.3	
151 Butadiene	54	1.319	1.319	0.000	76	331849	25.0	26.2	
14 Bromomethane	94	1.574	1.574	0.000	91	186066	25.0	24.7	
15 Chloroethane	64	1.641	1.641	0.000	95	197346	25.0	25.5	
16 Dichlorofluoromethane	67	1.842	1.842	0.000	82	430693	25.0	25.0	
17 Trichlorofluoromethane	101	1.854	1.854	0.000	71	372106	25.0	27.7	
18 Ethyl ether	59	2.091	2.091	0.000	97	241125	25.0	24.7	
20 Acrolein	56	2.262	2.262	0.000	93	70932	125.0	126.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.292	0.000	70	222957	25.0	27.4	
22 1,1-Dichloroethene	96	2.304	2.304	0.000	86	211038	25.0	25.8	
23 Acetone	43	2.414	2.414	0.000	98	586358	125.0	122.7	
25 Iodomethane	142	2.456	2.456	0.000	97	408356	25.0	25.6	
26 Carbon disulfide	76	2.493	2.493	0.000	99	727314	25.0	25.9	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	86	465079	25.0	25.6	
27 Methyl acetate	43	2.700	2.700	0.000	96	509084	50.0	49.0	
30 Methylene Chloride	84	2.797	2.797	0.000	93	270534	25.0	26.7	
31 2-Methyl-2-propanol	59	2.967	2.967	0.000	88	324058	250.0	281.2	
32 Methyl tert-butyl ether	73	2.992	2.992	0.000	93	831961	25.0	24.6	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	90	249436	25.0	25.5	
33 Acrylonitrile	53	3.071	3.071	0.000	99	1429113	250.0	249.2	
35 Hexane	57	3.198	3.198	0.000	94	392800	25.0	27.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.417	3.417	0.000	85	476453	25.0	25.8	
37 Vinyl acetate	43	3.478	3.478	0.000	97	933322	50.0	55.9	
44 2,2-Dichloropropane	77	3.922	3.922	0.000	90	218198	25.0	25.4	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	70	275901	25.0	25.4	
43 2-Butanone (MEK)	43	4.001	4.001	0.000	97	803035	125.0	128.5	
48 Chlorobromomethane	128	4.196	4.196	0.000	92	155216	25.0	25.3	
49 Tetrahydrofuran	42	4.208	4.208	0.000	90	226783	50.0	47.6	
50 Chloroform	83	4.275	4.275	0.000	82	425739	25.0	24.7	
51 1,1,1-Trichloroethane	97	4.379	4.379	0.000	73	345761	25.0	26.6	
52 Cyclohexane	56	4.379	4.379	0.000	94	511505	25.0	26.4	
55 Carbon tetrachloride	117	4.513	4.513	0.000	78	236696	25.0	26.6	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	89	320434	25.0	25.9	
57 Benzene	78	4.725	4.725	0.000	96	936516	25.0	25.2	
53 Isobutyl alcohol	43	4.774	4.774	0.000	59	263690	625.0	602.4	
58 1,2-Dichloroethane	62	4.798	4.798	0.000	73	364201	25.0	23.8	
59 n-Heptane	43	4.914	4.914	0.000	96	416703	25.0	25.9	
62 Trichloroethene	95	5.334	5.334	0.000	91	243274	25.0	25.5	
64 Methylcyclohexane	83	5.443	5.443	0.000	95	449859	25.0	27.3	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	89	247064	25.0	25.5	
67 Dibromomethane	93	5.711	5.711	0.000	87	146430	25.0	24.7	
66 1,4-Dioxane	88	5.717	5.717	0.000	48	61568	500.0	569.9	
68 Dichlorobromomethane	83	5.869	5.869	0.000	92	254929	25.0	26.0	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	92	158188	25.0	25.3	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	84	335059	25.0	26.3	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	99	1677866	125.0	127.5	
74 Toluene	92	6.557	6.557	0.000	95	612754	25.0	25.4	
77 trans-1,3-Dichloropropene	75	6.849	6.849	0.000	94	286400	25.0	26.6	
75 Ethyl methacrylate	69	6.903	6.903	0.000	76	228133	25.0	24.0	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	88	169184	25.0	25.3	
81 Tetrachloroethene	166	7.080	7.080	0.000	83	267520	25.0	26.0	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	98	343144	25.0	25.0	
80 2-Hexanone	43	7.268	7.268	0.000	99	1041690	125.0	127.7	
83 Chlorodibromomethane	129	7.427	7.427	0.000	88	163456	25.0	27.4	
84 Ethylene Dibromide	107	7.518	7.518	0.000	95	212055	25.0	26.5	
87 Chlorobenzene	112	7.992	7.992	0.000	94	698118	25.0	25.1	
88 Ethylbenzene	91	8.090	8.090	0.000	98	1161158	25.0	25.7	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	40	194586	25.0	25.6	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	99	461099	25.0	25.6	
91 o-Xylene	106	8.631	8.631	0.000	97	471746	25.0	25.7	
92 Styrene	104	8.668	8.668	0.000	90	753316	25.0	25.5	
95 Bromoform	173	8.911	8.911	0.000	96	91543	25.0	24.2	
94 Isopropylbenzene	105	9.020	9.020	0.000	96	1270380	25.0	25.9	
101 Bromobenzene	156	9.367	9.367	0.000	92	312081	25.0	25.2	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	55	291116	25.0	25.2	
99 N-Propylbenzene	91	9.465	9.465	0.000	98	1415237	25.0	25.9	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	63	98734	25.0	24.6	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	71	88681	25.0	24.6	
103 2-Chlorotoluene	126	9.562	9.562	0.000	97	305016	25.0	25.7	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	94	1087807	25.0	26.0	
105 4-Chlorotoluene	126	9.684	9.684	0.000	97	300747	25.0	25.2	
106 tert-Butylbenzene	134	9.976	9.976	0.000	90	251816	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	10.036	10.036	0.000	57	1093788	25.0	25.3	

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	10.195	10.195	0.000	94	1380726	25.0	26.3	
111 1,3-Dichlorobenzene	146	10.322	10.322	0.000	98	626376	25.0	24.9	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	97	1283381	25.0	26.8	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	94	624666	25.0	25.0	
115 n-Butylbenzene	91	10.736	10.736	0.000	95	1046627	25.0	25.9	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.000	96	626381	25.0	24.5	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	73	41639	25.0	27.2	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	94	492387	25.0	24.6	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	95	213904	25.0	26.5	
121 Naphthalene	128	12.409	12.409	0.000	96	1433795	25.0	25.6	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	94	489584	25.0	24.9	

QC Flag Legend

Processing Flags

Reagents:

GAS CORP mix_00465	Amount Added: 12.50	Units: uL	
8260 CORP mix_00211	Amount Added: 12.50	Units: uL	
S_8260_IS_00350	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added: 1.00	Units: uL	Run Reagent

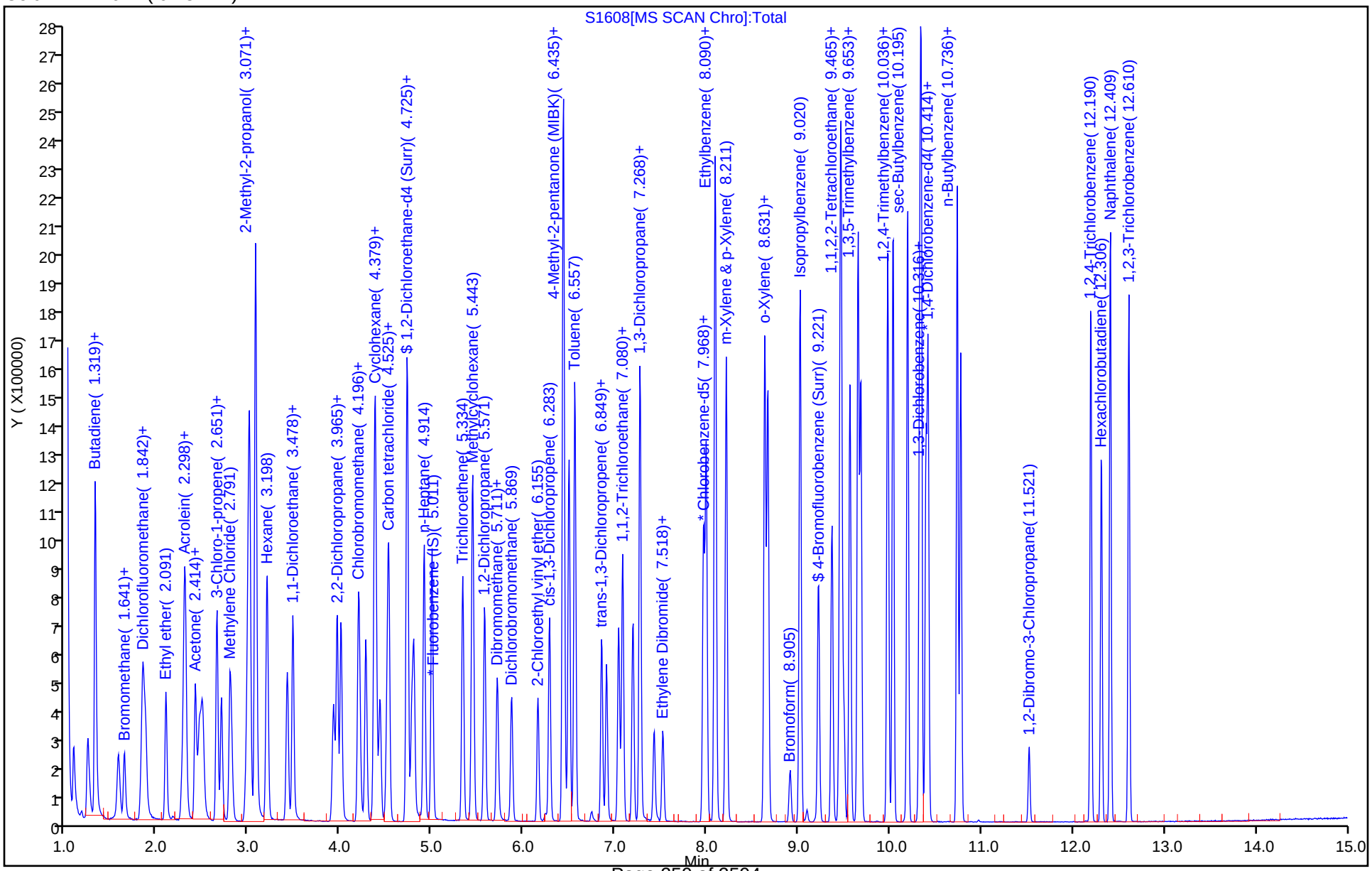
Report Date: 29-Jul-2021 10:44:49 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1608.D

Injection Date:	28-Jul-2021 19:46:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	ICIS 5			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1609.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 28-Jul-2021 20:09:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0100106-012
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:44:51 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 10:12:15

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	4.999	4.999	0.000	98	146412	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	84	298006	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	34	326471	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.427	0.006	57	211035	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.725	0.007	41	123707	25.0	24.4	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	52	770668	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	92	252915	25.0	24.4	
10 Dichlorodifluoromethane	85	1.087	1.087	0.000	87	573313	50.0	55.2	
12 Chloromethane	50	1.240	1.240	0.000	88	720362	50.0	46.1	
13 Vinyl chloride	62	1.319	1.319	0.000	47	659318	50.0	49.6	
151 Butadiene	54	1.325	1.319	0.006	67	673483	50.0	52.5	
14 Bromomethane	94	1.580	1.574	0.006	91	394194	50.0	51.5	
15 Chloroethane	64	1.641	1.641	0.000	94	400364	50.0	51.0	
16 Dichlorofluoromethane	67	1.842	1.842	0.000	82	870240	50.0	49.9	
17 Trichlorofluoromethane	101	1.854	1.854	0.000	64	759226	50.0	55.7	
18 Ethyl ether	59	2.091	2.091	0.000	97	470691	50.0	47.5	
20 Acrolein	56	2.262	2.262	0.000	93	139135	250.0	244.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.298	2.292	0.006	65	445063	50.0	53.9	
22 1,1-Dichloroethene	96	2.304	2.304	0.000	95	418277	50.0	50.3	
23 Acetone	43	2.414	2.414	0.000	98	1108183	250.0	228.5	
25 Iodomethane	142	2.462	2.456	0.006	98	800872	50.0	49.6	
26 Carbon disulfide	76	2.493	2.493	0.000	99	1446487	50.0	50.8	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	85	939509	50.0	50.9	
27 Methyl acetate	43	2.700	2.700	0.000	97	1006477	100.0	95.4	
30 Methylene Chloride	84	2.797	2.797	0.000	94	513244	50.0	50.4	
31 2-Methyl-2-propanol	59	2.973	2.967	0.006	80	628939	500.0	538.1	M
32 Methyl tert-butyl ether	73	2.998	2.992	0.006	94	1647257	50.0	48.1	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	90	500001	50.0	50.4	
33 Acrylonitrile	53	3.071	3.071	0.000	99	2763219	500.0	474.9	
35 Hexane	57	3.198	3.198	0.000	95	756104	50.0	51.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.417	3.417	0.000	85	921980	50.0	49.3	
37 Vinyl acetate	43	3.478	3.478	0.000	97	2069491	100.0	122.1	
44 2,2-Dichloropropane	77	3.922	3.922	0.000	89	428285	50.0	49.1	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	67	531731	50.0	48.2	
43 2-Butanone (MEK)	43	4.001	4.001	0.000	97	1553011	250.0	245.0	
48 Chlorobromomethane	128	4.196	4.196	0.000	94	298932	50.0	48.1	
49 Tetrahydrofuran	42	4.208	4.208	0.000	90	434863	100.0	90.1	
50 Chloroform	83	4.275	4.275	0.000	81	840719	50.0	48.1	
51 1,1,1-Trichloroethane	97	4.379	4.379	0.000	74	691995	50.0	52.6	
52 Cyclohexane	56	4.379	4.379	0.000	94	1025513	50.0	52.2	
55 Carbon tetrachloride	117	4.506	4.513	-0.006	78	505994	50.0	56.1	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	88	638234	50.0	50.8	
57 Benzene	78	4.725	4.725	0.000	98	1866485	50.0	49.5	
53 Isobutyl alcohol	43	4.780	4.774	0.006	83	593589	1250.0	1317.4	
58 1,2-Dichloroethane	62	4.798	4.798	0.000	73	730017	50.0	47.1	
59 n-Heptane	43	4.914	4.914	0.000	96	812814	50.0	49.9	
62 Trichloroethene	95	5.334	5.334	0.000	92	487412	50.0	50.3	
64 Methylcyclohexane	83	5.443	5.443	0.000	95	889620	50.0	53.2	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	89	484831	50.0	49.3	
67 Dibromomethane	93	5.711	5.711	0.000	88	298424	50.0	49.7	
66 1,4-Dioxane	88	5.723	5.717	0.006	54	104596	1000.0	933.6	
68 Dichlorobromomethane	83	5.869	5.869	0.000	92	532153	50.0	53.5	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	93	328524	50.0	51.9	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	85	697046	50.0	53.9	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	99	3401485	250.0	249.2	
74 Toluene	92	6.557	6.557	0.000	91	1239037	50.0	49.6	
77 trans-1,3-Dichloropropene	75	6.849	6.849	0.000	95	620634	50.0	55.6	
75 Ethyl methacrylate	69	6.903	6.903	0.000	76	524610	50.0	52.5	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	88	333987	50.0	48.2	
81 Tetrachloroethene	166	7.080	7.080	0.000	84	543472	50.0	50.9	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	98	688386	50.0	48.3	
80 2-Hexanone	43	7.268	7.268	0.000	99	2115413	250.0	250.1	
83 Chlorodibromomethane	129	7.427	7.427	0.000	87	369807	50.0	59.9	
84 Ethylene Dibromide	107	7.518	7.518	0.000	98	424719	50.0	51.2	
87 Chlorobenzene	112	7.992	7.992	0.000	95	1403706	50.0	48.6	
88 Ethylbenzene	91	8.090	8.090	0.000	98	2357949	50.0	50.2	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	40	435504	50.0	55.3	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	99	941804	50.0	50.4	
91 o-Xylene	106	8.631	8.631	0.000	97	946043	50.0	49.7	
92 Styrene	104	8.668	8.668	0.000	90	1536251	50.0	50.1	
95 Bromoform	173	8.911	8.911	0.000	95	208357	50.0	52.5	
94 Isopropylbenzene	105	9.020	9.020	0.000	95	2606608	50.0	52.7	
101 Bromobenzene	156	9.367	9.367	0.000	92	629972	50.0	50.5	
97 1,1,2,2-Tetrachloroethane	83	9.446	9.452	-0.006	73	584311	50.0	50.3	
99 N-Propylbenzene	91	9.465	9.465	0.000	98	2896555	50.0	52.6	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	62	200957	50.0	49.8	
98 trans-1,4-Dichloro-2-butene	53	9.495	9.501	-0.006	67	180354	50.0	49.8	
103 2-Chlorotoluene	126	9.562	9.562	0.000	96	613458	50.0	51.4	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	94	2236147	50.0	53.2	
105 4-Chlorotoluene	126	9.684	9.684	0.000	97	622112	50.0	51.8	
106 tert-Butylbenzene	134	9.976	9.976	0.000	90	513809	50.0	54.2	
107 1,2,4-Trimethylbenzene	105	10.030	10.036	-0.006	64	2264575	50.0	52.1	

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	10.195	10.195	0.000	93	2874309	50.0	54.4	
111 1,3-Dichlorobenzene	146	10.322	10.322	0.000	98	1268739	50.0	50.2	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	95	2626932	50.0	54.4	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	95	1260495	50.0	50.1	
115 n-Butylbenzene	91	10.736	10.736	0.000	95	2146068	50.0	52.9	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.000	98	1270185	50.0	49.4	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	81	101103	50.0	65.7	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	93	993106	50.0	49.3	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	95	428951	50.0	52.8	
121 Naphthalene	128	12.409	12.409	0.000	96	2967027	50.0	52.6	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	95	982589	50.0	49.6	
S 123 Total BTEX	1				0			249.4	
S 126 1,3-Dichloropropene, Total	1				0			109.6	
S 125 1,2-Dichloroethene, Total	1				0			98.6	
S 124 Xylenes, Total	1				0			100.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00465	Amount Added: 25.00	Units: uL		
8260 CORP mix_00211	Amount Added: 25.00	Units: uL		
S_8260_IS_00350	Amount Added: 1.00	Units: uL	Run Reagent	
S_8260_Surr_00394	Amount Added: 1.00	Units: uL	Run Reagent	

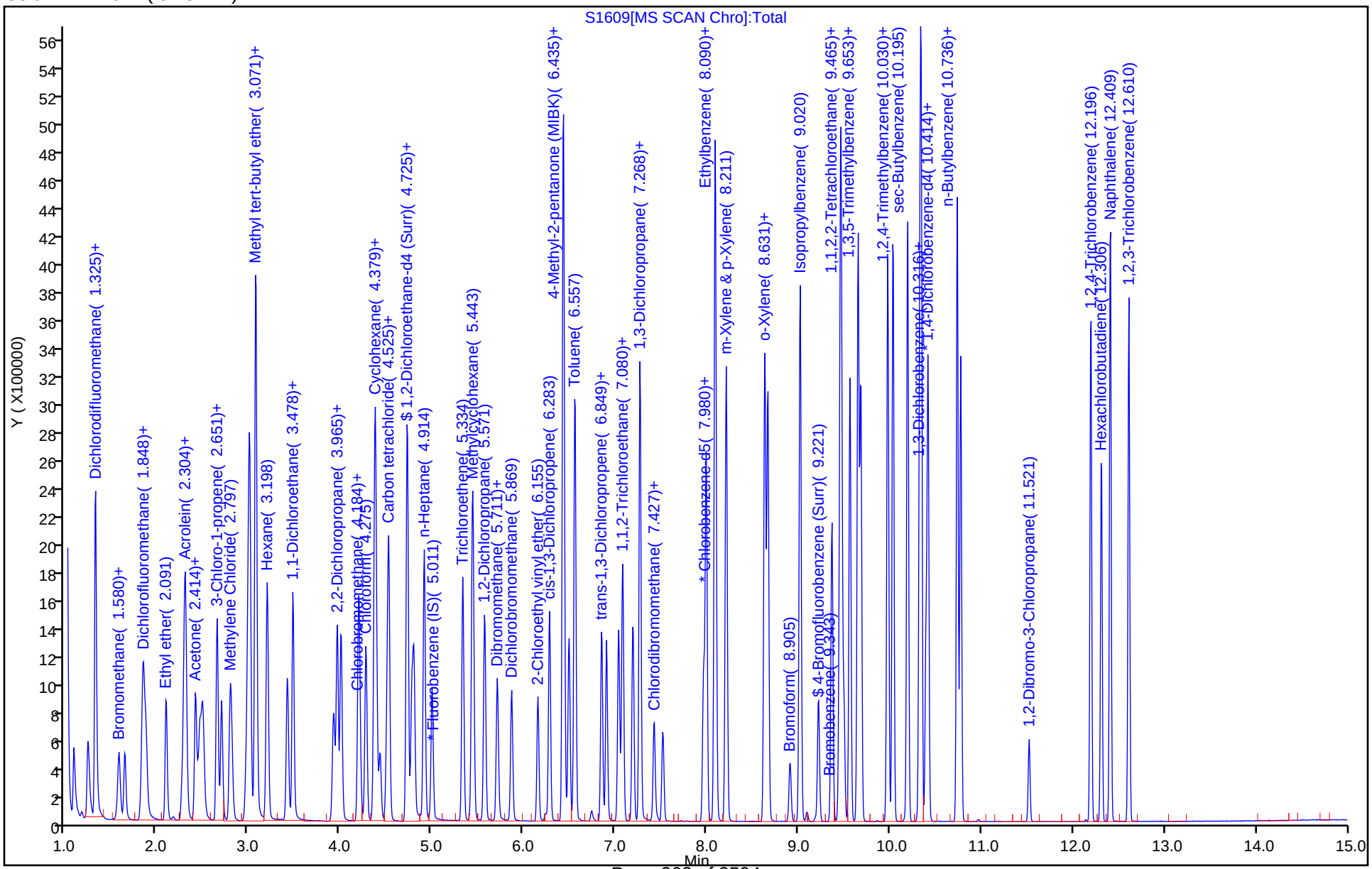
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1609.D

Injection Date:	28-Jul-2021 20:09:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 6			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

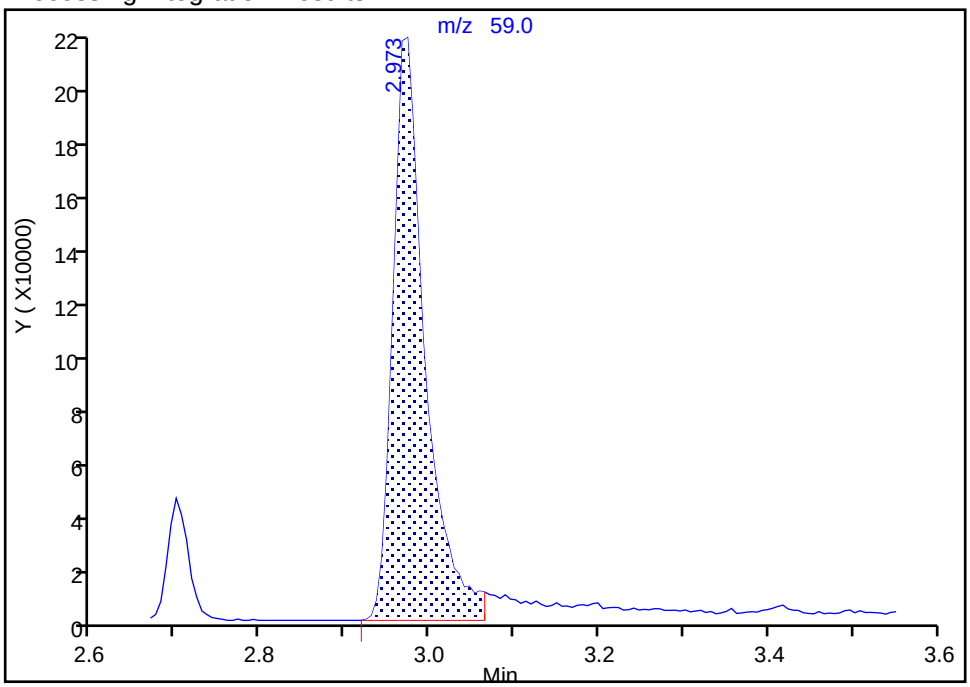
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Injection Date: 28-Jul-2021 20:09:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

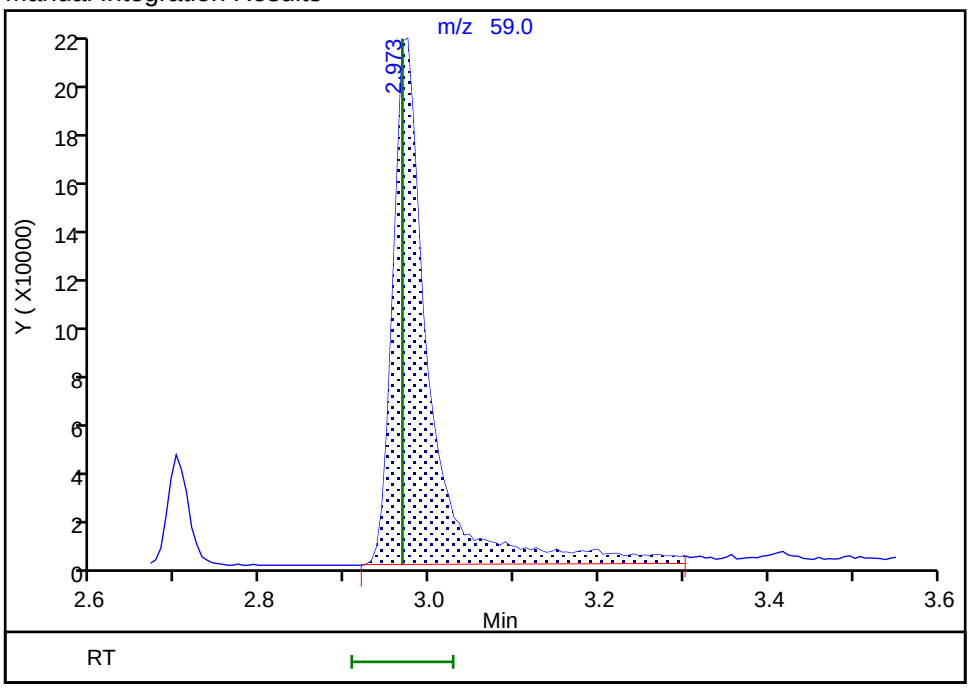
Processing Integration Results

RT: 2.97
Area: 562852
Amount: 488.4190
Amount Units: ug/L



Manual Integration Results

RT: 2.97
Area: 628939
Amount: 538.0525
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:11:53
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1610.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 28-Jul-2021 20:32:30 ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0100106-013
Operator ID: LH Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:44:56 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 10:14:50

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	4.999	4.999	0.000	98	150526	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	87	314199	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	7	359758	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.427	0.000	58	212324	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.725	0.007	36	130410	25.0	25.0	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	27	812986	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	93	275305	25.0	25.2	
10 Dichlorodifluoromethane	85	1.087	1.087	0.000	88	1020016	100.0	95.6	
12 Chloromethane	50	1.246	1.240	0.006	89	1421361	100.0	88.4	M
13 Vinyl chloride	62	1.325	1.319	0.006	47	1248645	100.0	91.4	
151 Butadiene	54	1.325	1.319	0.006	68	1223214	100.0	92.7	
14 Bromomethane	94	1.580	1.574	0.006	91	762738	100.0	96.9	
15 Chloroethane	64	1.641	1.641	0.000	99	778355	100.0	96.5	
16 Dichlorofluoromethane	67	1.842	1.842	0.000	82	1703665	100.0	94.9	
17 Trichlorofluoromethane	101	1.860	1.854	0.006	72	1411254	100.0	100.8	
18 Ethyl ether	59	2.097	2.091	0.006	94	967004	100.0	94.9	
20 Acrolein	56	2.268	2.262	0.006	96	279444	500.0	477.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.298	2.292	0.006	67	845425	100.0	99.5	
22 1,1-Dichloroethene	96	2.310	2.304	0.006	87	835734	100.0	97.8	
23 Acetone	43	2.414	2.414	0.000	98	2369745	500.0	475.3	
25 Iodomethane	142	2.462	2.456	0.006	98	1593547	100.0	96.0	
26 Carbon disulfide	76	2.499	2.493	0.006	98	2895266	100.0	98.8	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	85	1789850	100.0	94.3	
27 Methyl acetate	43	2.700	2.700	0.000	97	2141020	200.0	197.4	
30 Methylene Chloride	84	2.803	2.797	0.006	94	1020343	100.0	98.0	
31 2-Methyl-2-propanol	59	2.967	2.967	0.000	91	1468835	1000.0	1222.2	
32 Methyl tert-butyl ether	73	2.998	2.992	0.006	94	3383835	100.0	96.1	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	89	978127	100.0	95.9	
33 Acrylonitrile	53	3.077	3.071	0.006	99	5851262	1000.0	978.2	
35 Hexane	57	3.198	3.198	0.000	95	1516344	100.0	100.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.417	3.417	0.000	85	1863883	100.0	96.9	
37 Vinyl acetate	43	3.478	3.478	0.000	97	5067930	200.0	290.9	
44 2,2-Dichloropropane	77	3.929	3.922	0.006	92	842412	100.0	94.0	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	68	1056387	100.0	93.1	
43 2-Butanone (MEK)	43	4.002	4.001	0.001	97	3457649	500.0	530.6	
48 Chlorobromomethane	128	4.196	4.196	0.000	93	602797	100.0	94.4	
49 Tetrahydrofuran	42	4.208	4.208	0.000	90	923402	200.0	186.0	
50 Chloroform	83	4.275	4.275	0.000	82	1714567	100.0	95.3	
51 1,1,1-Trichloroethane	97	4.379	4.379	0.000	77	1435142	100.0	106.1	
52 Cyclohexane	56	4.379	4.379	0.000	95	1980194	100.0	97.9	
55 Carbon tetrachloride	117	4.513	4.513	0.001	78	1111831	100.0	120.0	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	89	1296403	100.0	100.4	
57 Benzene	78	4.725	4.725	0.000	98	3836816	100.0	99.0	
53 Isobutyl alcohol	43	4.780	4.774	0.006	83	1525730	2500.0	3270.0	
58 1,2-Dichloroethane	62	4.798	4.798	0.000	73	1508051	100.0	94.5	
59 n-Heptane	43	4.914	4.914	0.000	96	1613896	100.0	96.4	
62 Trichloroethene	95	5.334	5.334	0.000	91	979768	100.0	98.4	
64 Methylcyclohexane	83	5.443	5.443	0.000	96	1753071	100.0	102.0	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	91	1010474	100.0	99.9	
67 Dibromomethane	93	5.711	5.711	0.000	87	618415	100.0	100.2	
66 1,4-Dioxane	88	5.723	5.717	0.006	56	221858	2000.0	1878.2	
68 Dichlorobromomethane	83	5.869	5.869	0.000	90	1182157	100.0	115.7	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	92	716393	100.0	110.0	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	87	1528198	100.0	115.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	99	7492449	500.0	520.7	
74 Toluene	92	6.563	6.557	0.006	91	2599222	100.0	98.6	
77 trans-1,3-Dichloropropene	75	6.849	6.849	0.000	95	1414889	100.0	120.2	
75 Ethyl methacrylate	69	6.903	6.903	0.000	76	1259645	100.0	118.7	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	87	714816	100.0	97.9	
81 Tetrachloroethene	166	7.080	7.080	0.000	84	1126157	100.0	99.9	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	97	1518542	100.0	101.1	
80 2-Hexanone	43	7.268	7.268	0.000	99	4801990	500.0	538.4	
83 Chlorodibromomethane	129	7.427	7.427	0.000	89	895950	100.0	137.5	
84 Ethylene Dibromide	107	7.518	7.518	0.000	100	959593	100.0	109.8	
87 Chlorobenzene	112	7.992	7.992	0.000	95	3058000	100.0	100.4	
88 Ethylbenzene	91	8.090	8.090	0.000	98	5142109	100.0	103.9	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	40	1019285	100.0	122.8	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	99	2016449	100.0	102.3	
91 o-Xylene	106	8.631	8.631	0.000	97	2022954	100.0	100.8	
92 Styrene	104	8.668	8.668	0.000	91	3414847	100.0	105.6	
95 Bromoform	173	8.911	8.911	0.000	97	552821	100.0	131.4	
94 Isopropylbenzene	105	9.020	9.020	0.000	95	5618976	100.0	103.1	
101 Bromobenzene	156	9.367	9.367	0.000	91	1366349	100.0	99.3	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	57	1290351	100.0	100.8	
99 N-Propylbenzene	91	9.465	9.465	0.000	98	6359027	100.0	104.8	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	60	437162	100.0	98.2	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	70	444398	100.0	111.3	
103 2-Chlorotoluene	126	9.562	9.562	0.000	96	1316548	100.0	100.1	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	93	4912685	100.0	106.0	
105 4-Chlorotoluene	126	9.684	9.684	0.000	97	1338215	100.0	101.1	
106 tert-Butylbenzene	134	9.976	9.976	0.000	90	1110271	100.0	106.4	
107 1,2,4-Trimethylbenzene	105	10.036	10.036	0.000	66	5005419	100.0	104.5	

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	10.195	10.195	0.000	93	6280917	100.0	107.8	
111 1,3-Dichlorobenzene	146	10.322	10.322	0.000	98	2755359	100.0	98.9	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	98	5749433	100.0	108.1	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	94	2800025	100.0	101.0	
115 n-Butylbenzene	91	10.736	10.736	0.000	94	4688004	100.0	104.8	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.001	97	2763007	100.0	97.5	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	86	254257	100.0	149.8	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	93	2177608	100.0	98.2	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	94	906788	100.0	101.3	
121 Naphthalene	128	12.409	12.409	0.000	96	6587418	100.0	106.1	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	97	2121626	100.0	97.2	
S 123 Total BTEX	1				0			504.6	
S 126 1,3-Dichloropropene, Total	1				0			235.3	
S 125 1,2-Dichloroethene, Total	1				0			189.0	
S 124 Xylenes, Total	1				0			203.1	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00465	Amount Added:	50.00	Units: uL	
8260 CORP mix_00211	Amount Added:	50.00	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

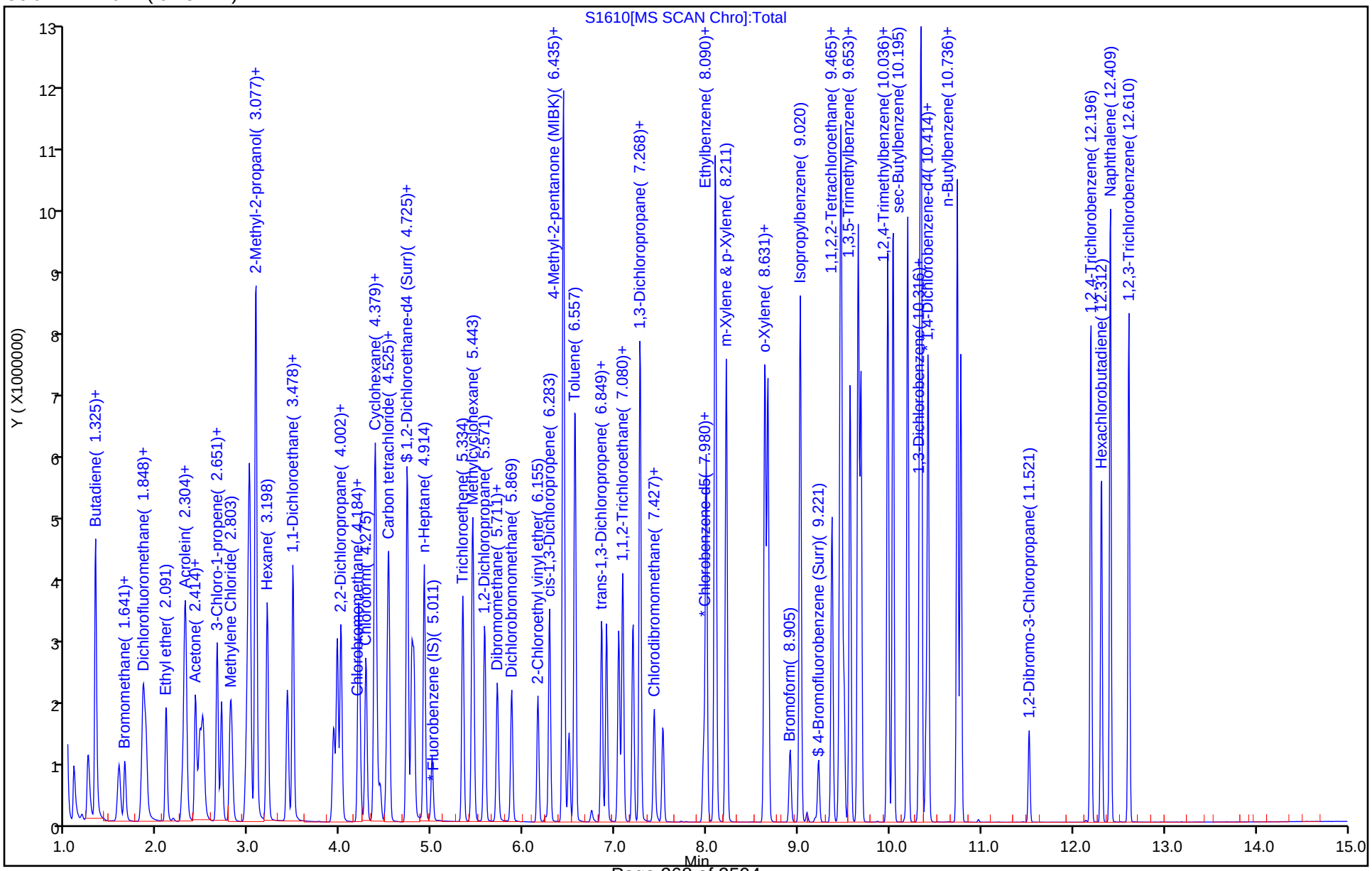
Report Date: 29-Jul-2021 10:44:57 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1610.D

Injection Date:	28-Jul-2021 20:32:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	IC 7			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

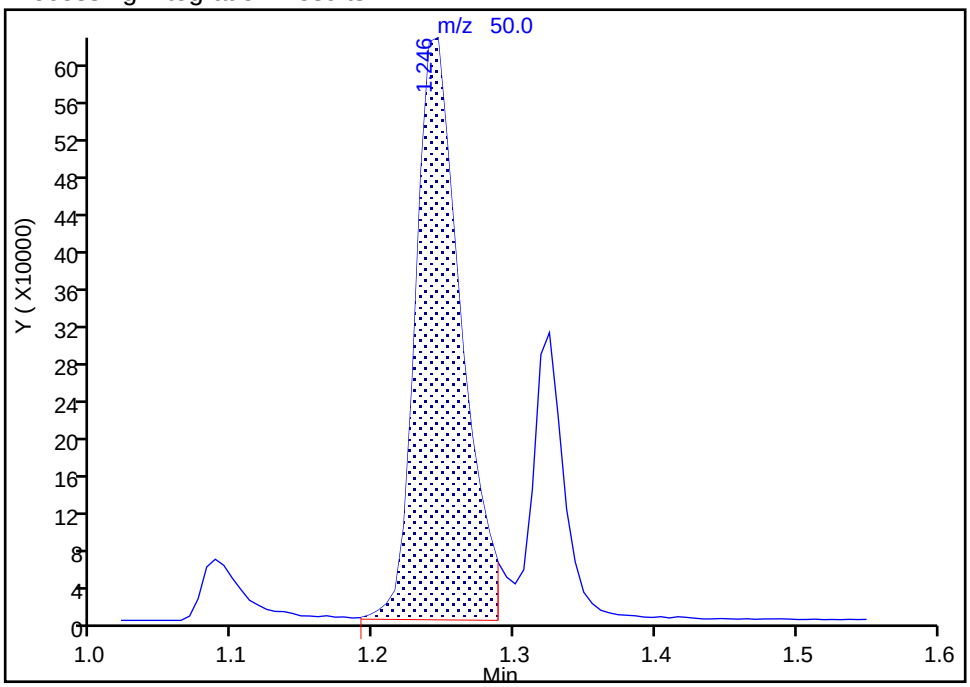
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Injection Date: 28-Jul-2021 20:32:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 11 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

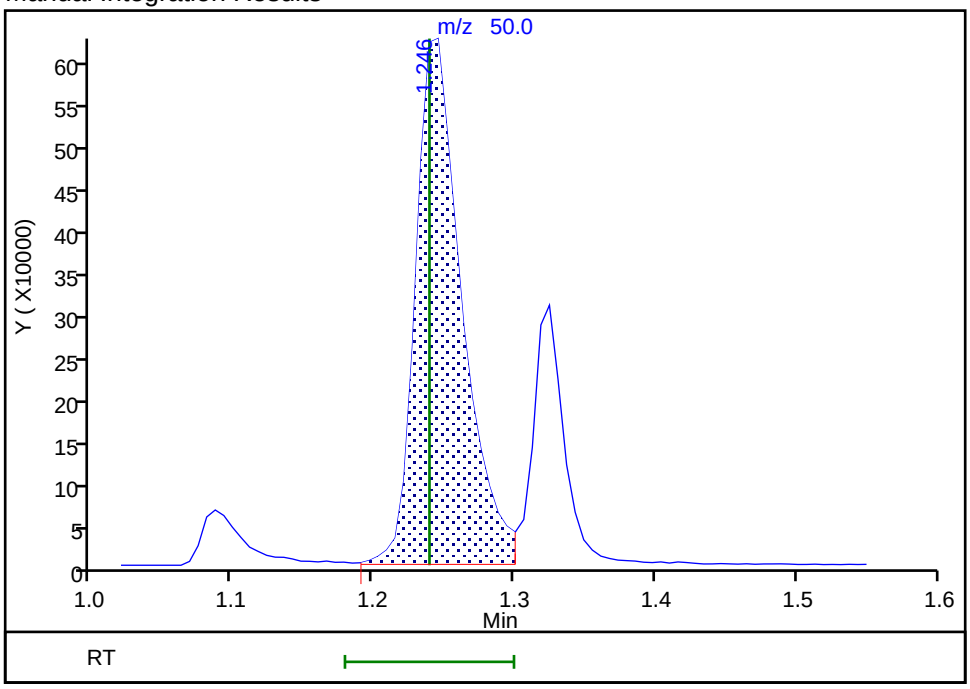
Processing Integration Results

RT: 1.25
Area: 1393381
Amount: 86.868210
Amount Units: ug/L



Manual Integration Results

RT: 1.25
Area: 1421361
Amount: 88.419784
Amount Units: ug/L



Reviewer: HillL, 29-Jul-2021 10:12:47
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Calibration / Dichlorodifluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

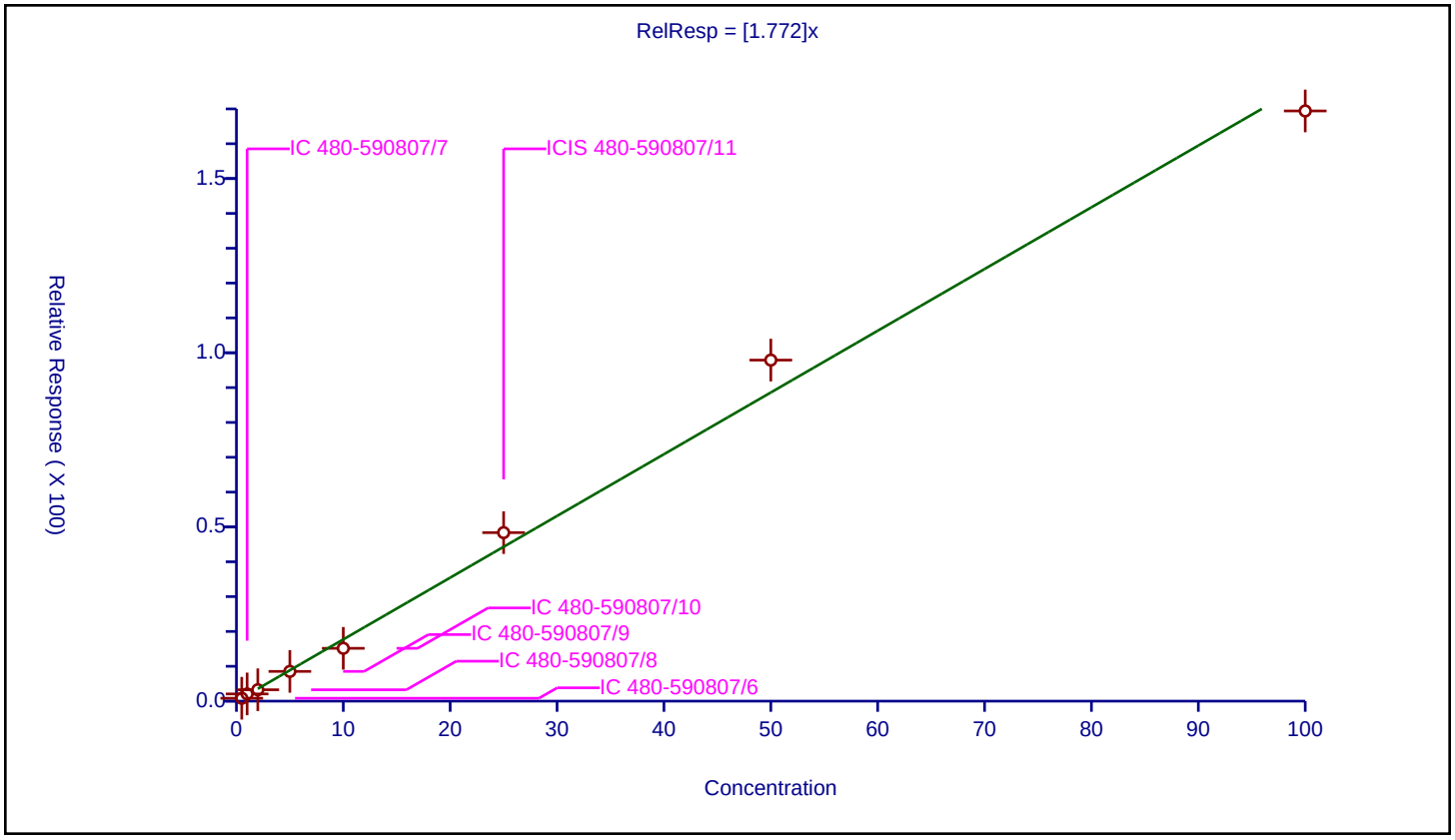
Curve Coefficients

Intercept:	0
Slope:	1.772

Error Coefficients

Standard Error:	456000
Relative Standard Error:	10.8
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.831809	25.0	137802.0	1.663619	Y
2	IC 480-590807/7	1.0	2.068009	25.0	133909.0	2.068009	Y
3	IC 480-590807/8	2.0	3.265833	25.0	145851.0	1.632916	Y
4	IC 480-590807/9	5.0	8.538942	25.0	148745.0	1.707788	Y
5	IC 480-590807/10	10.0	15.162174	25.0	141299.0	1.516217	Y
6	ICIS 480-590807/11	25.0	48.372883	25.0	144335.0	1.934915	Y
7	IC 480-590807/12	50.0	97.893786	25.0	146412.0	1.957876	Y
8	IC 480-590807/13	100.0	169.408607	25.0	150526.0	1.694086	Y



Calibration / Chloromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

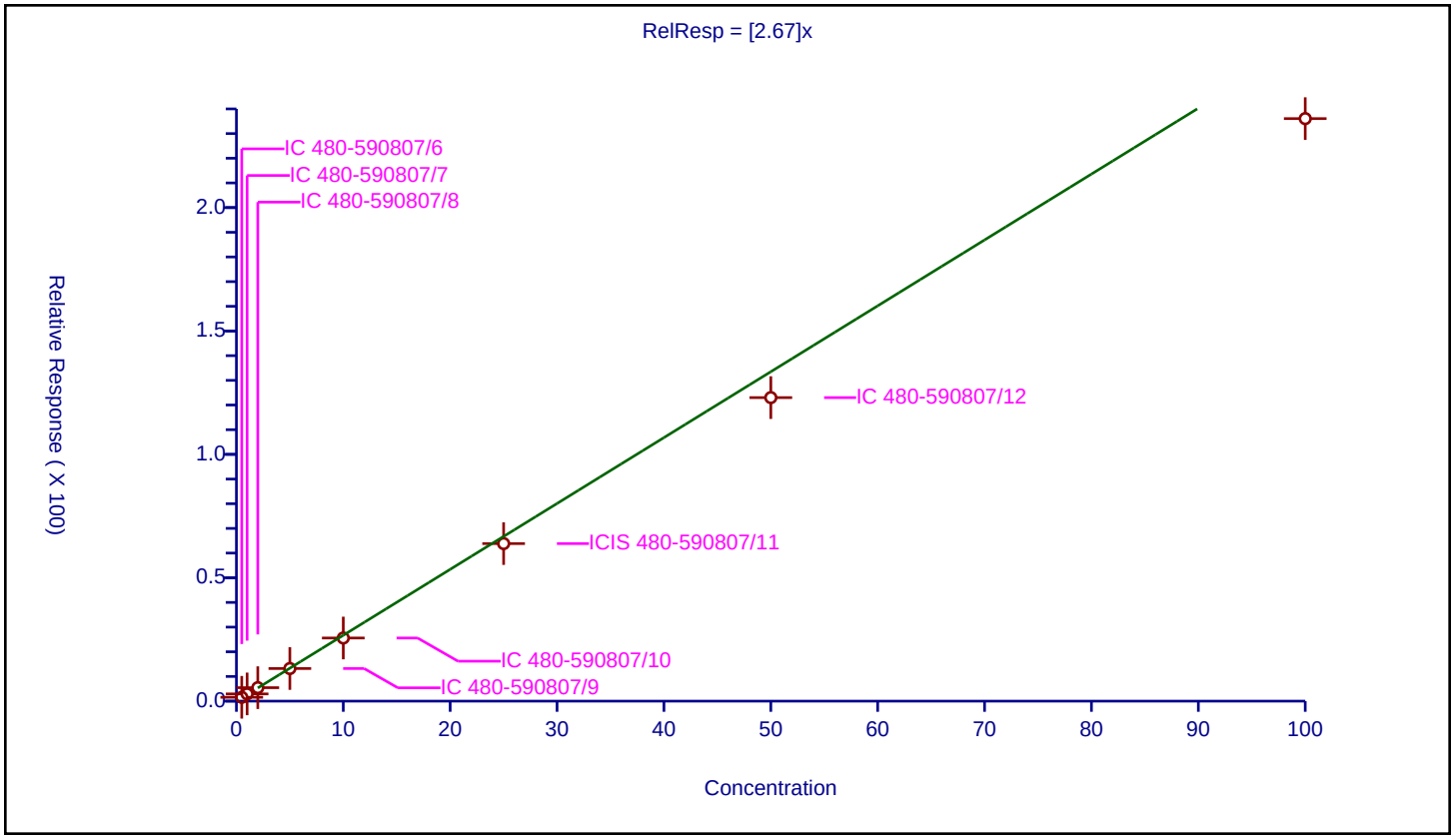
Curve Coefficients

Intercept:	0
Slope:	2.67

Error Coefficients

Standard Error:	621000
Relative Standard Error:	9.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.559484	25.0	137802.0	3.118968	Y
2	IC 480-590807/7	1.0	2.934455	25.0	133909.0	2.934455	Y
3	IC 480-590807/8	2.0	5.455568	25.0	145851.0	2.727784	Y
4	IC 480-590807/9	5.0	13.220444	25.0	148745.0	2.644089	Y
5	IC 480-590807/10	10.0	25.586522	25.0	141299.0	2.558652	Y
6	ICIS 480-590807/11	25.0	63.849378	25.0	144335.0	2.553975	Y
7	IC 480-590807/12	50.0	123.002554	25.0	146412.0	2.460051	Y
8	IC 480-590807/13	100.0	236.065696	25.0	150526.0	2.360657	Y



Calibration / Butadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

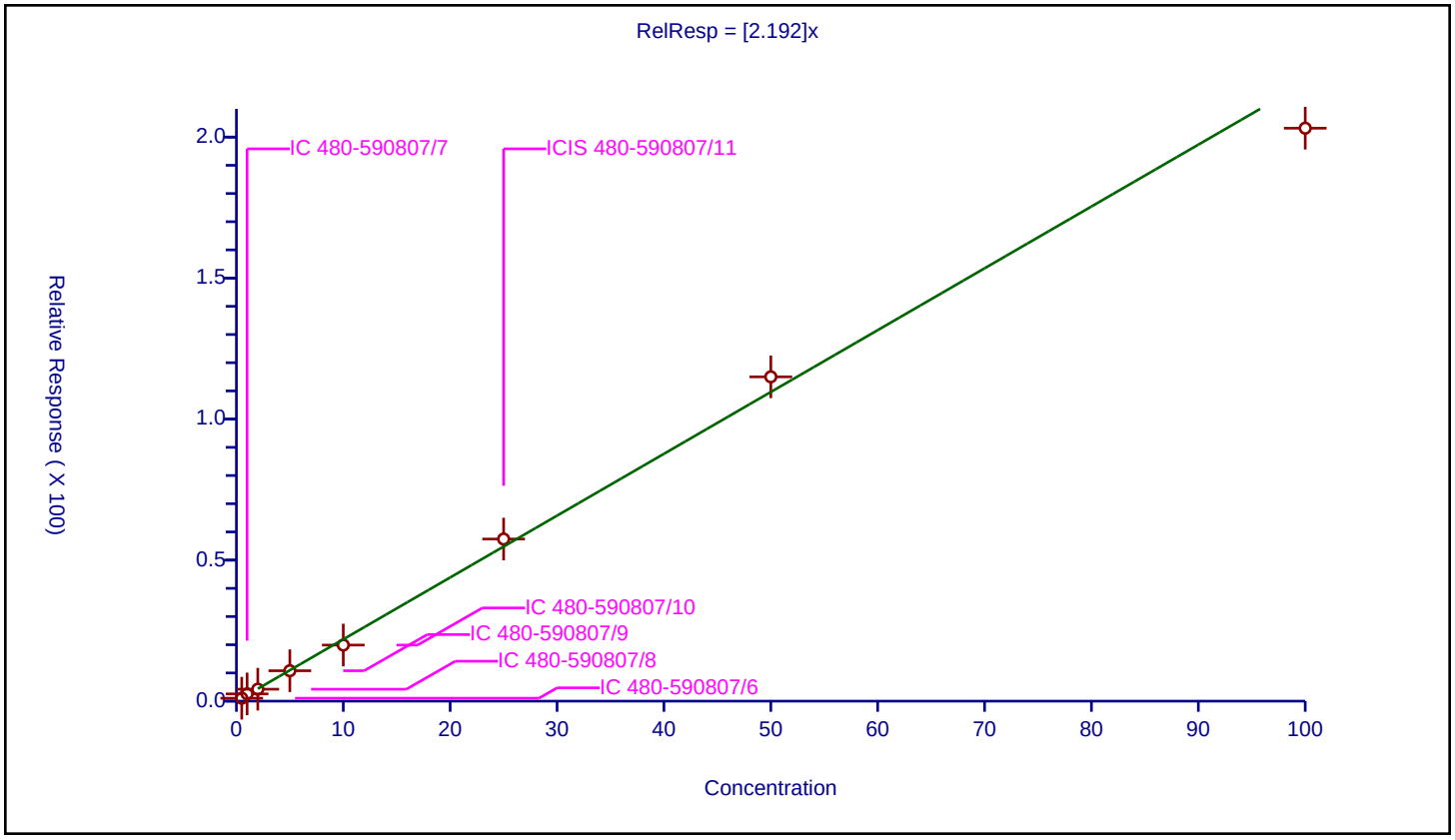
Curve Coefficients

Intercept:	0
Slope:	2.192

Error Coefficients

Standard Error:	545000
Relative Standard Error:	8.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.038809	25.0	137802.0	2.077619	Y
2	IC 480-590807/7	1.0	2.567602	25.0	133909.0	2.567602	Y
3	IC 480-590807/8	2.0	4.236344	25.0	145851.0	2.118172	Y
4	IC 480-590807/9	5.0	10.781035	25.0	148745.0	2.156207	Y
5	IC 480-590807/10	10.0	19.888322	25.0	141299.0	1.988832	Y
6	ICIS 480-590807/11	25.0	57.478955	25.0	144335.0	2.299158	Y
7	IC 480-590807/12	50.0	114.997917	25.0	146412.0	2.299958	Y
8	IC 480-590807/13	100.0	203.156598	25.0	150526.0	2.031566	Y



Calibration / Vinyl chloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

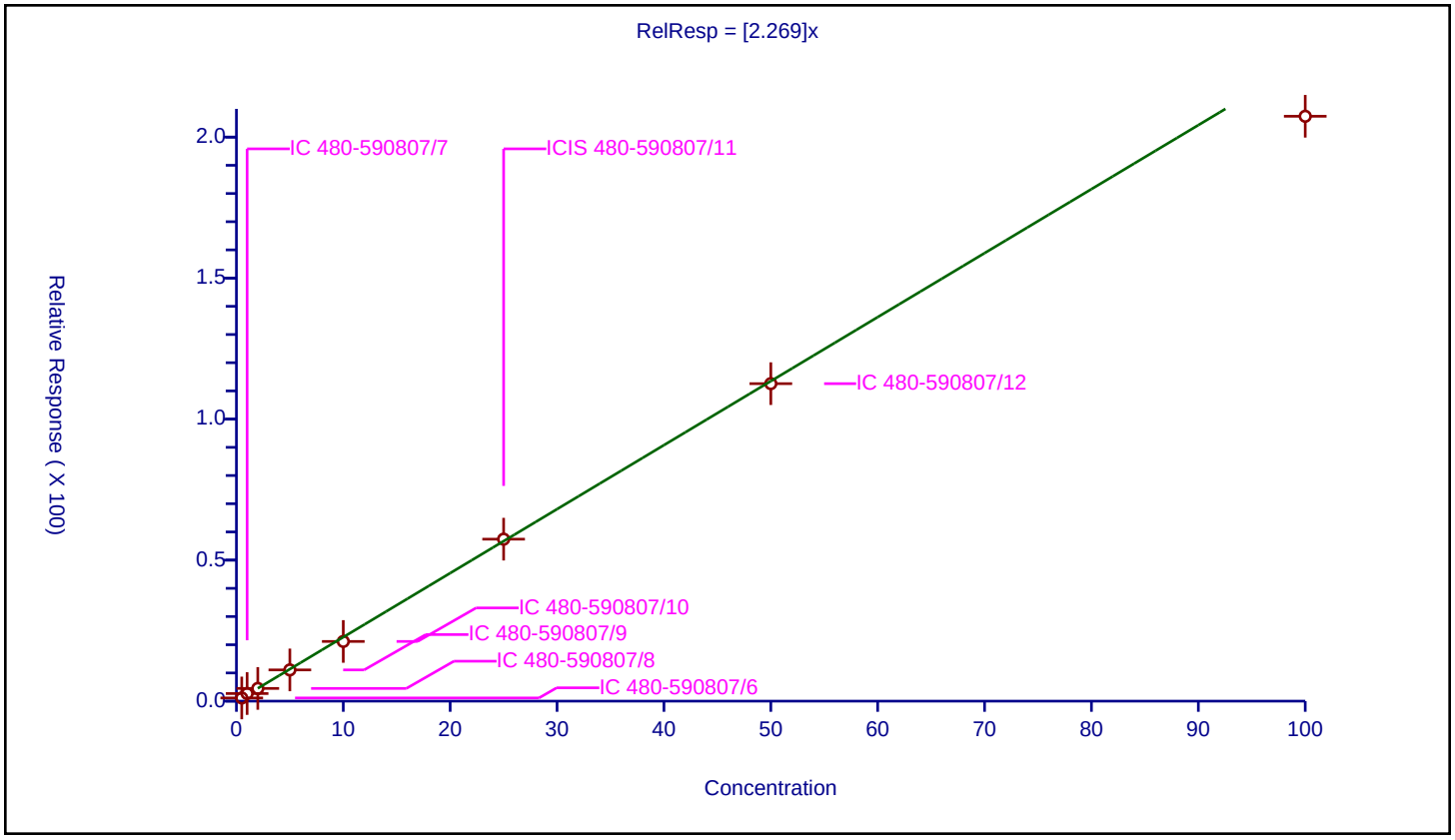
Curve Coefficients

Intercept:	0
Slope:	2.269

Error Coefficients

Standard Error:	551000
Relative Standard Error:	8.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.125165	25.0	137802.0	2.25033	Y
2	IC 480-590807/7	1.0	2.695487	25.0	133909.0	2.695487	Y
3	IC 480-590807/8	2.0	4.508711	25.0	145851.0	2.254355	Y
4	IC 480-590807/9	5.0	11.075666	25.0	148745.0	2.215133	Y
5	IC 480-590807/10	10.0	21.170532	25.0	141299.0	2.117053	Y
6	ICIS 480-590807/11	25.0	57.436692	25.0	144335.0	2.297468	Y
7	IC 480-590807/12	50.0	112.579228	25.0	146412.0	2.251585	Y
8	IC 480-590807/13	100.0	207.380286	25.0	150526.0	2.073803	Y



Calibration / Bromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

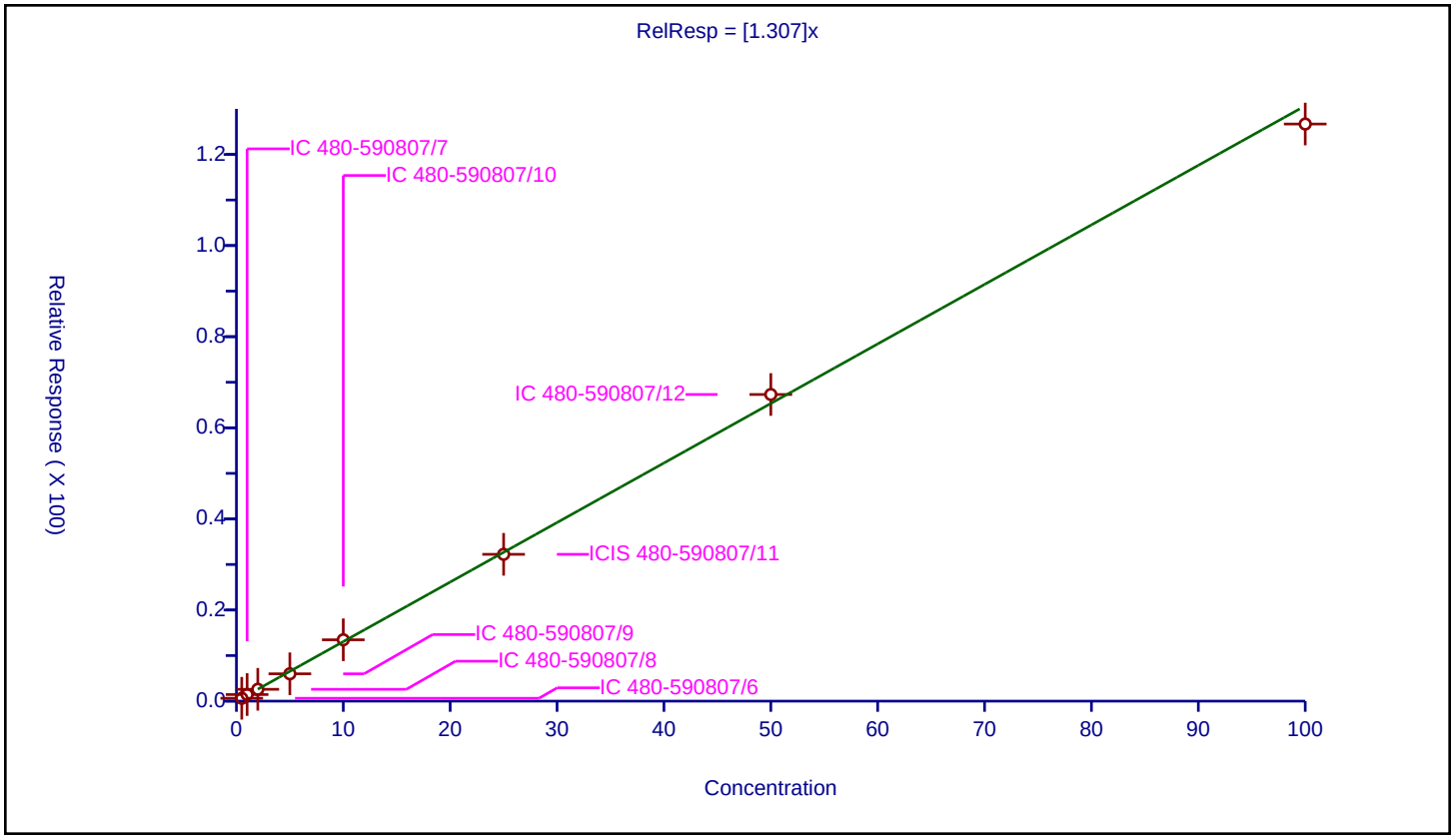
Curve Coefficients

Intercept:	0
Slope:	1.307

Error Coefficients

Standard Error:	334000
Relative Standard Error:	5.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.630252	25.0	137802.0	1.260504	Y
2	IC 480-590807/7	1.0	1.445011	25.0	133909.0	1.445011	Y
3	IC 480-590807/8	2.0	2.5982	25.0	145851.0	1.2991	Y
4	IC 480-590807/9	5.0	6.002555	25.0	148745.0	1.200511	Y
5	IC 480-590807/10	10.0	13.469133	25.0	141299.0	1.346913	Y
6	ICIS 480-590807/11	25.0	32.22815	25.0	144335.0	1.289126	Y
7	IC 480-590807/12	50.0	67.309032	25.0	146412.0	1.346181	Y
8	IC 480-590807/13	100.0	126.67878	25.0	150526.0	1.266788	Y



Calibration / Chloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

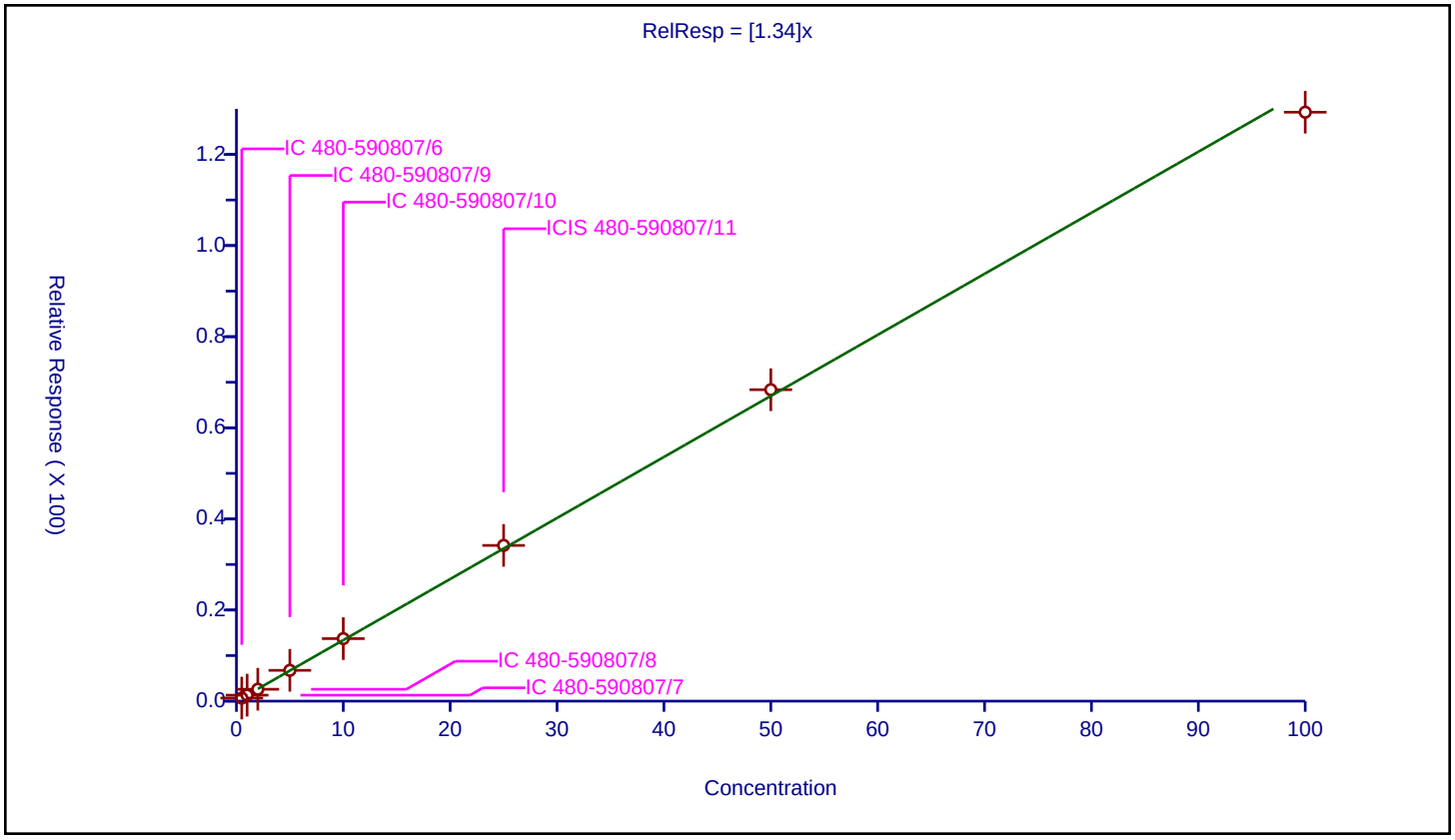
Curve Coefficients

Intercept:	0
Slope:	1.34

Error Coefficients

Standard Error:	341000
Relative Standard Error:	2.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.676696	25.0	137802.0	1.353391	Y
2	IC 480-590807/7	1.0	1.310218	25.0	133909.0	1.310218	Y
3	IC 480-590807/8	2.0	2.608141	25.0	145851.0	1.304071	Y
4	IC 480-590807/9	5.0	6.758378	25.0	148745.0	1.351676	Y
5	IC 480-590807/10	10.0	13.724266	25.0	141299.0	1.372427	Y
6	ICIS 480-590807/11	25.0	34.181938	25.0	144335.0	1.367278	Y
7	IC 480-590807/12	50.0	68.362566	25.0	146412.0	1.367251	Y
8	IC 480-590807/13	100.0	129.272518	25.0	150526.0	1.292725	Y



Calibration / Dichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

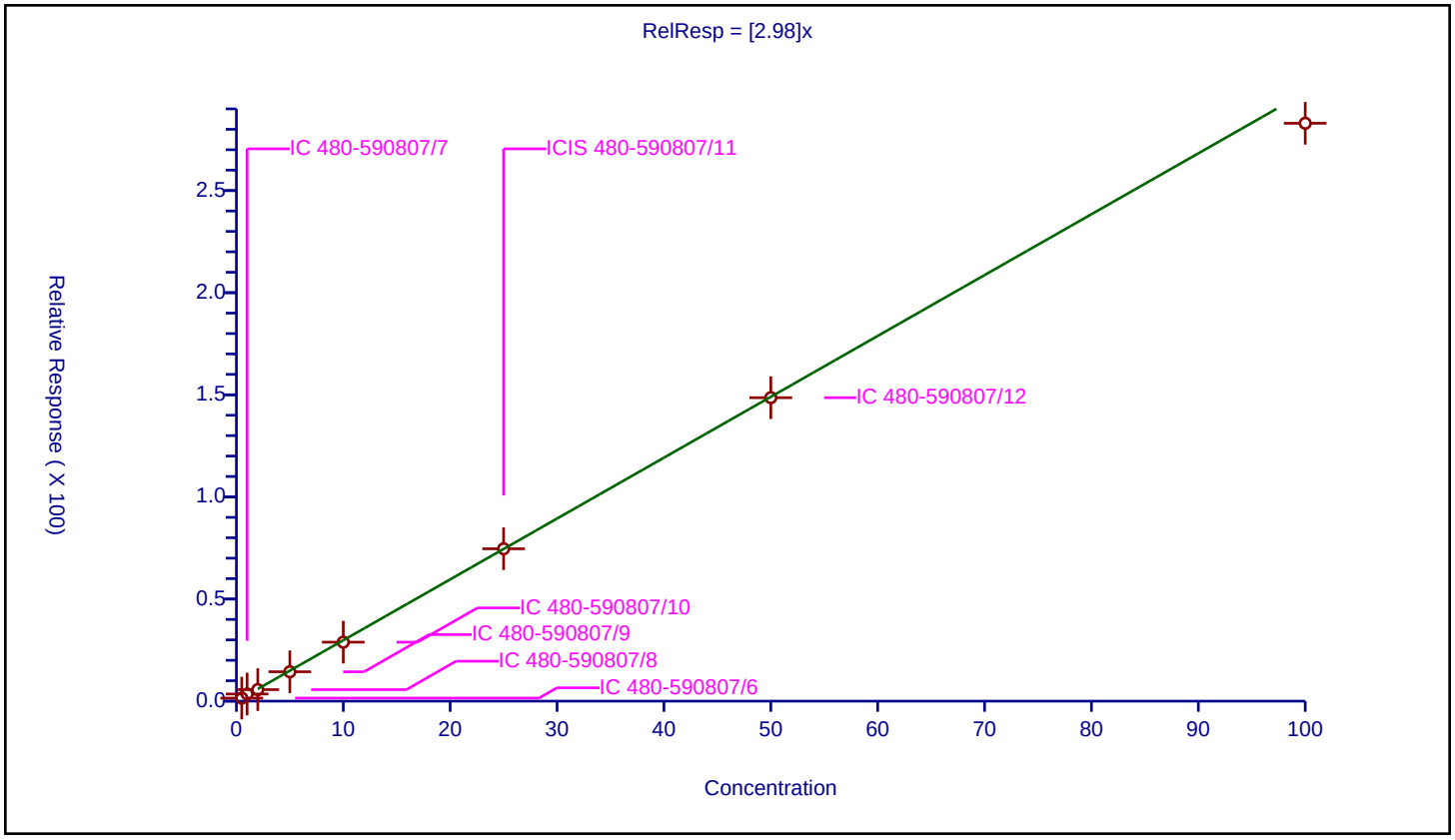
Curve Coefficients

Intercept:	0
Slope:	2.98

Error Coefficients

Standard Error:	744000
Relative Standard Error:	7.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.488912	25.0	137802.0	2.977823	Y
2	IC 480-590807/7	1.0	3.491924	25.0	133909.0	3.491924	Y
3	IC 480-590807/8	2.0	5.642402	25.0	145851.0	2.821201	Y
4	IC 480-590807/9	5.0	14.388047	25.0	148745.0	2.877609	Y
5	IC 480-590807/10	10.0	28.880601	25.0	141299.0	2.88806	Y
6	ICIS 480-590807/11	25.0	74.599543	25.0	144335.0	2.983982	Y
7	IC 480-590807/12	50.0	148.594378	25.0	146412.0	2.971888	Y
8	IC 480-590807/13	100.0	282.951949	25.0	150526.0	2.829519	Y



Calibration / Trichlorofluoromethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

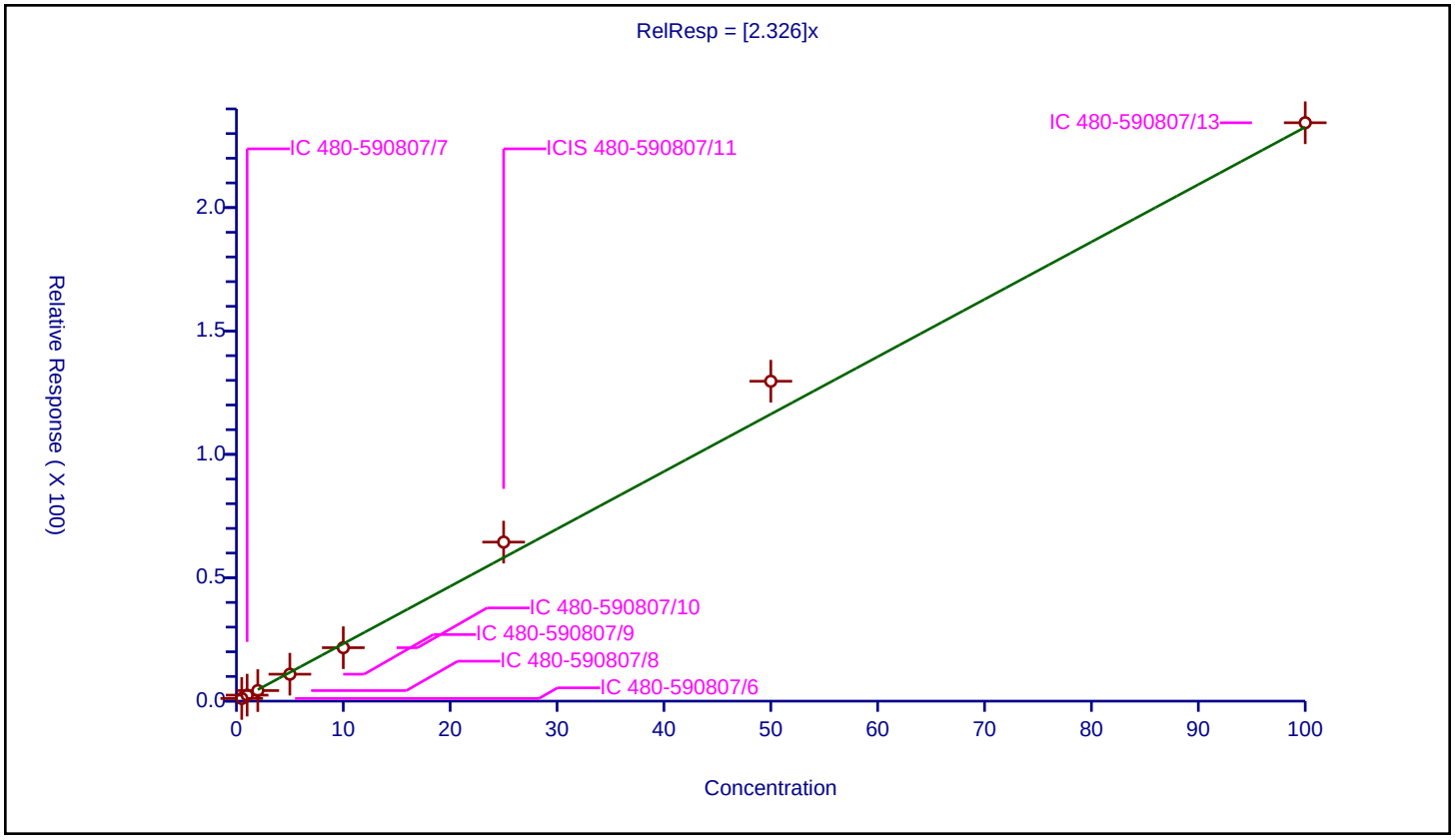
Curve Coefficients

Intercept:	0
Slope:	2.326

Error Coefficients

Standard Error:	624000
Relative Standard Error:	8.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.085434	25.0	137802.0	2.170868	Y
2	IC 480-590807/7	1.0	2.438036	25.0	133909.0	2.438036	Y
3	IC 480-590807/8	2.0	4.274225	25.0	145851.0	2.137113	Y
4	IC 480-590807/9	5.0	10.911795	25.0	148745.0	2.182359	Y
5	IC 480-590807/10	10.0	21.655673	25.0	141299.0	2.165567	Y
6	ICIS 480-590807/11	25.0	64.451796	25.0	144335.0	2.578072	Y
7	IC 480-590807/12	50.0	129.638623	25.0	146412.0	2.592772	Y
8	IC 480-590807/13	100.0	234.387083	25.0	150526.0	2.343871	Y



Calibration / Ethyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

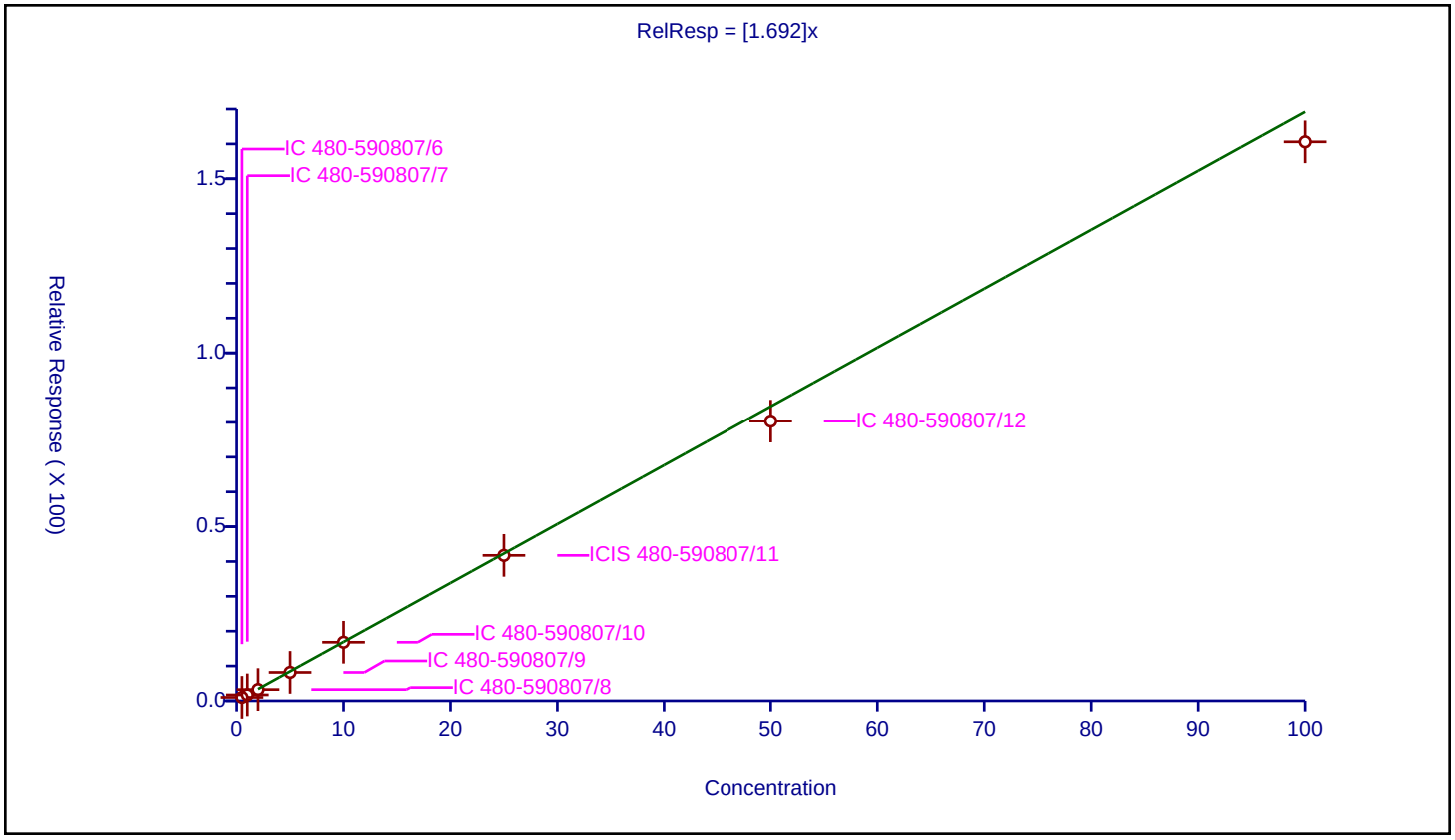
Curve Coefficients

Intercept:	0
Slope:	1.692

Error Coefficients

Standard Error:	419000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.000167	25.0	137802.0	2.000334	Y
2	IC 480-590807/7	1.0	1.714037	25.0	133909.0	1.714037	Y
3	IC 480-590807/8	2.0	3.245607	25.0	145851.0	1.622803	Y
4	IC 480-590807/9	5.0	8.168846	25.0	148745.0	1.633769	Y
5	IC 480-590807/10	10.0	16.823721	25.0	141299.0	1.682372	Y
6	ICIS 480-590807/11	25.0	41.764818	25.0	144335.0	1.670593	Y
7	IC 480-590807/12	50.0	80.370974	25.0	146412.0	1.607419	Y
8	IC 480-590807/13	100.0	160.604148	25.0	150526.0	1.606041	Y



Calibration / Acrolein

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

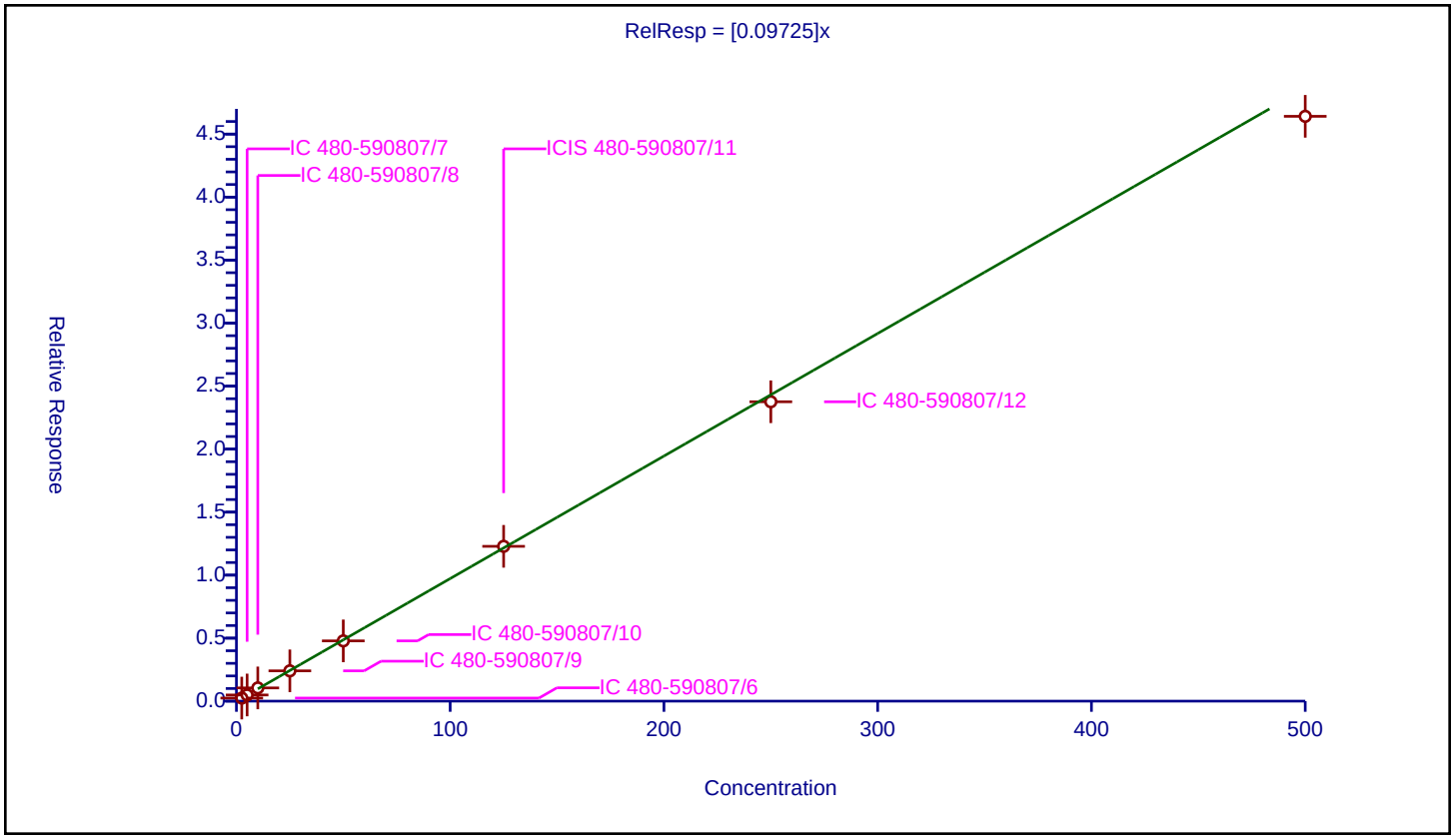
Curve Coefficients

Intercept:	0
Slope:	0.09725

Error Coefficients

Standard Error:	122000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	2.5	0.243102	25.0	137802.0	0.097241	Y
2	IC 480-590807/7	5.0	0.490072	25.0	133909.0	0.098014	Y
3	IC 480-590807/8	10.0	1.048502	25.0	145851.0	0.10485	Y
4	IC 480-590807/9	25.0	2.403274	25.0	148745.0	0.096131	Y
5	IC 480-590807/10	50.0	4.781527	25.0	141299.0	0.095631	Y
6	ICIS 480-590807/11	125.0	12.286001	25.0	144335.0	0.098288	Y
7	IC 480-590807/12	250.0	23.757445	25.0	146412.0	0.09503	Y
8	IC 480-590807/13	500.0	46.411251	25.0	150526.0	0.092823	Y



Calibration / 1,1,2-Trichloro-1,2,2-trifluoroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

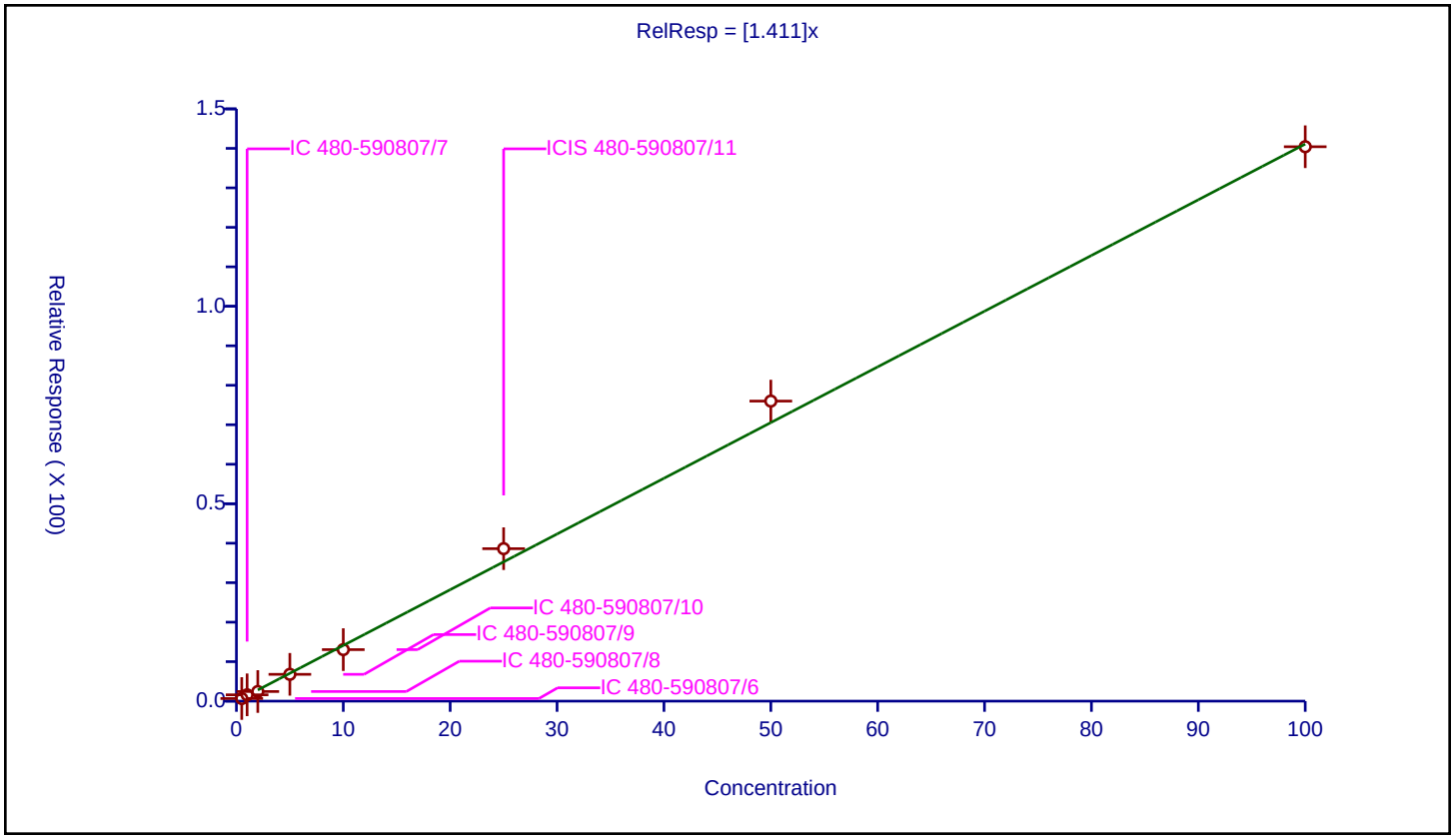
Curve Coefficients

Intercept:	0
Slope:	1.411

Error Coefficients

Standard Error:	372000
Relative Standard Error:	9.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.66581	25.0	137802.0	1.331621	Y
2	IC 480-590807/7	1.0	1.605008	25.0	133909.0	1.605008	Y
3	IC 480-590807/8	2.0	2.43879	25.0	145851.0	1.219395	Y
4	IC 480-590807/9	5.0	6.788968	25.0	148745.0	1.357794	Y
5	IC 480-590807/10	10.0	13.049986	25.0	141299.0	1.304999	Y
6	ICIS 480-590807/11	25.0	38.617972	25.0	144335.0	1.544719	Y
7	IC 480-590807/12	50.0	75.994966	25.0	146412.0	1.519899	Y
8	IC 480-590807/13	100.0	140.411789	25.0	150526.0	1.404118	Y



Calibration / 1,1-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

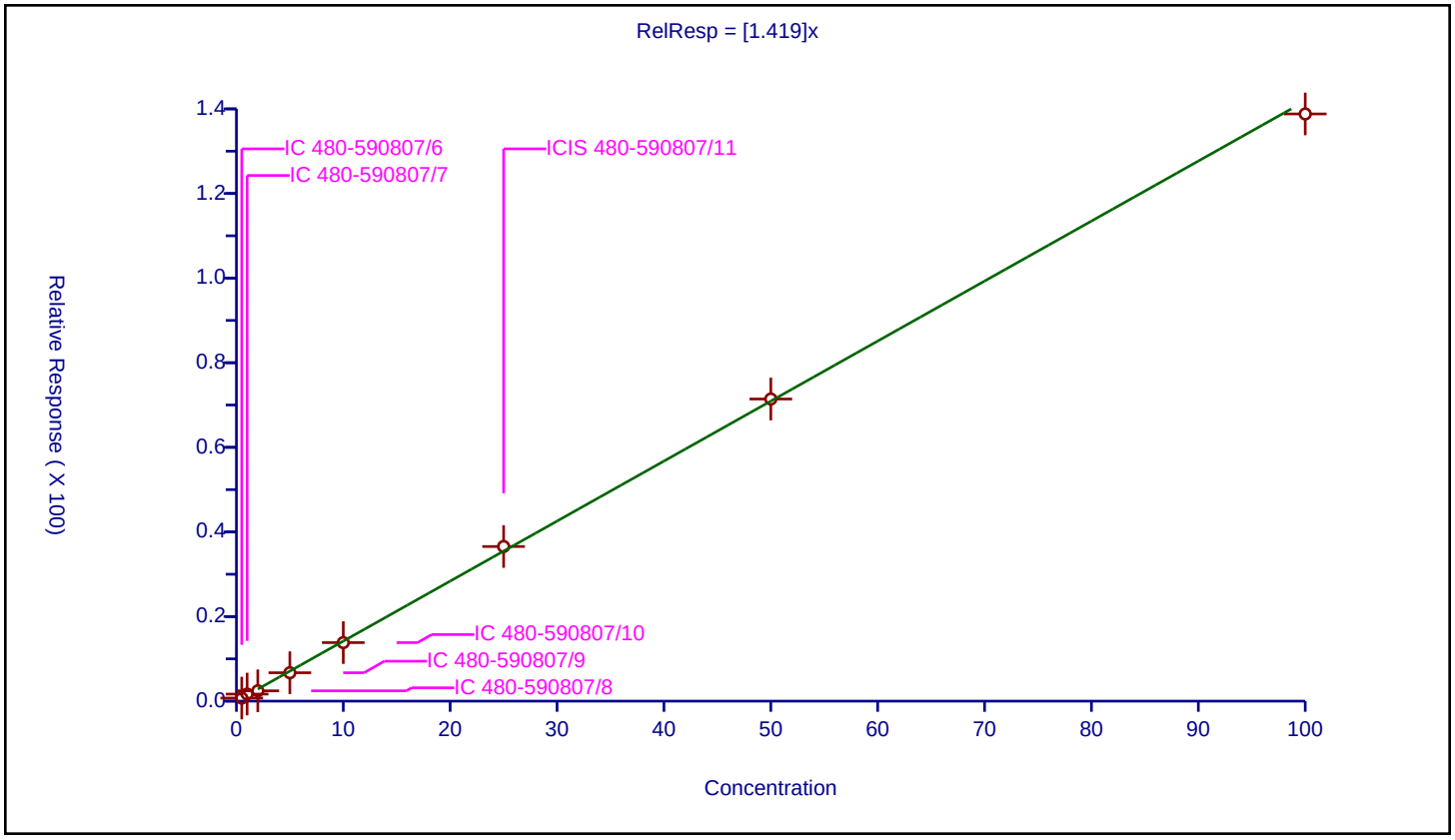
Curve Coefficients

Intercept:	0
Slope:	1.419

Error Coefficients

Standard Error:	364000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.730214	25.0	137802.0	1.460429	Y
2	IC 480-590807/7	1.0	1.662696	25.0	133909.0	1.662696	Y
3	IC 480-590807/8	2.0	2.441019	25.0	145851.0	1.220509	Y
4	IC 480-590807/9	5.0	6.712495	25.0	148745.0	1.342499	Y
5	IC 480-590807/10	10.0	13.837324	25.0	141299.0	1.383732	Y
6	ICIS 480-590807/11	25.0	36.553504	25.0	144335.0	1.46214	Y
7	IC 480-590807/12	50.0	71.421229	25.0	146412.0	1.428425	Y
8	IC 480-590807/13	100.0	138.802267	25.0	150526.0	1.388023	Y



Calibration / Acetone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

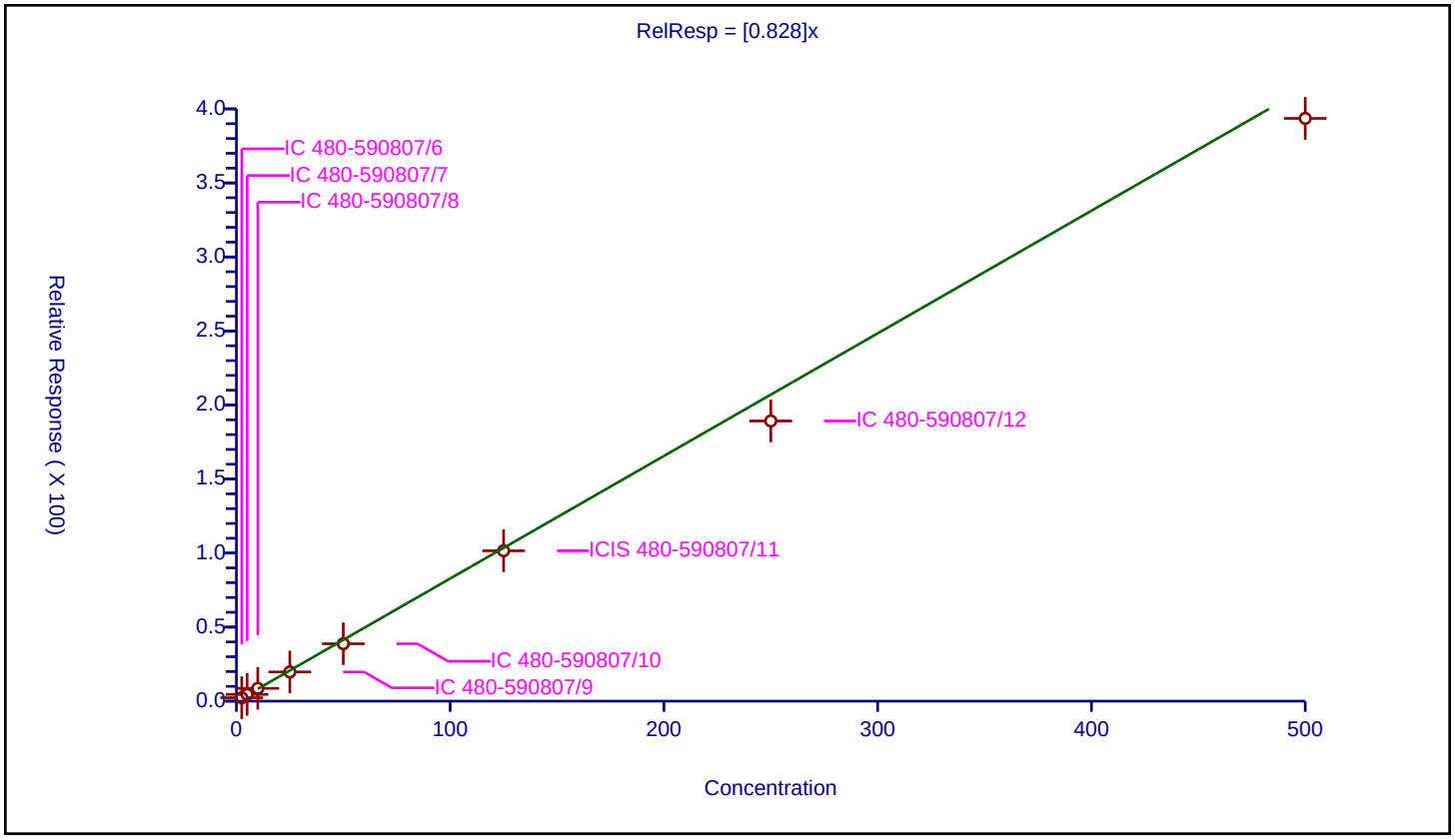
Curve Coefficients

Intercept:	0
Slope:	0.828

Error Coefficients

Standard Error:	1020000
Relative Standard Error:	7.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	2.5	2.31419	25.0	137802.0	0.925676	Y
2	IC 480-590807/7	5.0	4.56504	25.0	133909.0	0.913008	Y
3	IC 480-590807/8	10.0	8.64581	25.0	145851.0	0.864581	Y
4	IC 480-590807/9	25.0	19.72705	25.0	148745.0	0.789082	Y
5	IC 480-590807/10	50.0	38.762482	25.0	141299.0	0.77525	Y
6	ICIS 480-590807/11	125.0	101.561991	25.0	144335.0	0.812496	Y
7	IC 480-590807/12	250.0	189.22339	25.0	146412.0	0.756894	Y
8	IC 480-590807/13	500.0	393.577355	25.0	150526.0	0.787155	Y



Calibration / Iodomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

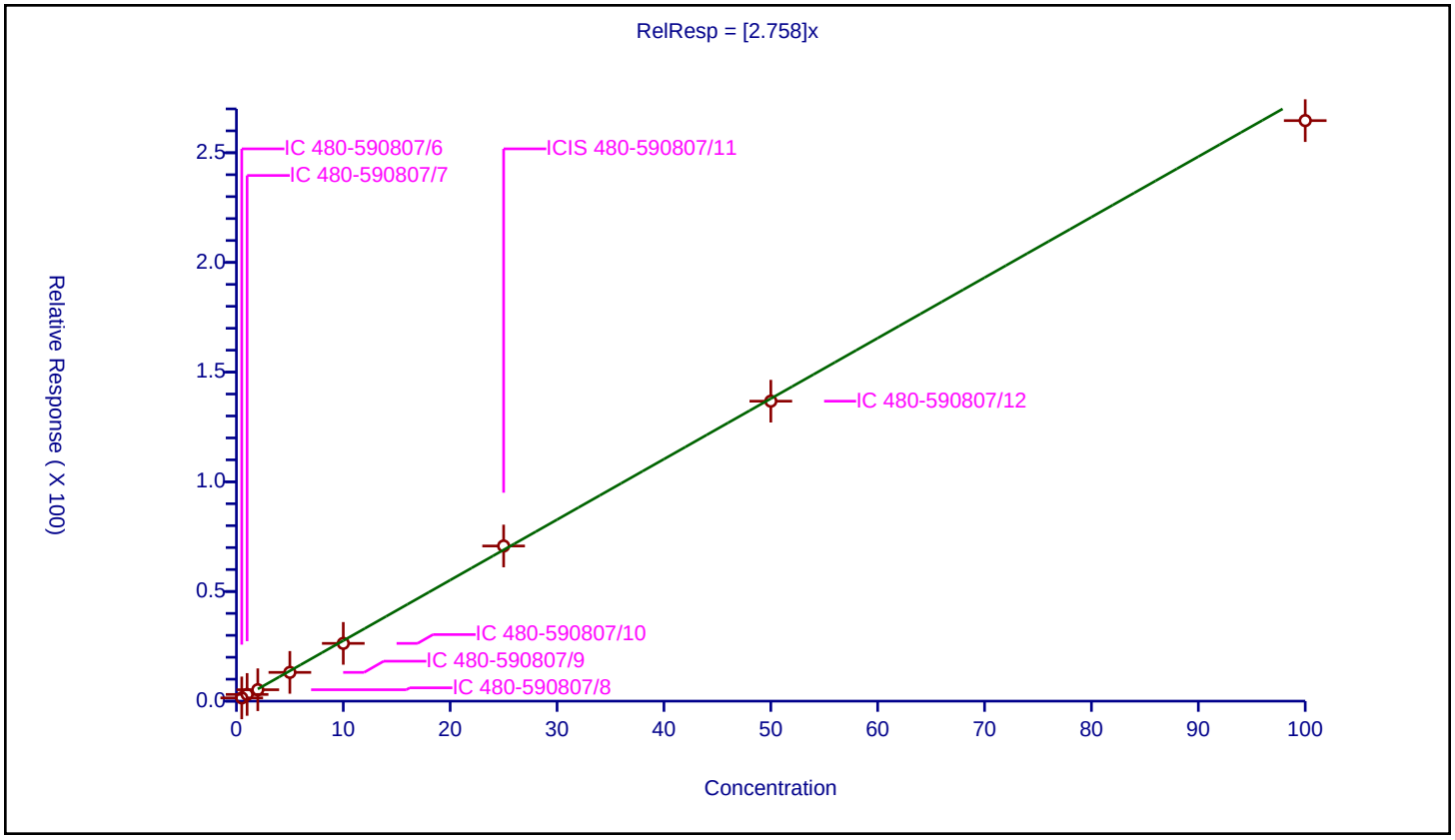
Curve Coefficients

Intercept:	0
Slope:	2.758

Error Coefficients

Standard Error:	694000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.475487	25.0	137802.0	2.950973	Y
2	IC 480-590807/7	1.0	3.050019	25.0	133909.0	3.050019	Y
3	IC 480-590807/8	2.0	5.198113	25.0	145851.0	2.599057	Y
4	IC 480-590807/9	5.0	13.109852	25.0	148745.0	2.62197	Y
5	IC 480-590807/10	10.0	26.331573	25.0	141299.0	2.633157	Y
6	ICIS 480-590807/11	25.0	70.730592	25.0	144335.0	2.829224	Y
7	IC 480-590807/12	50.0	136.74972	25.0	146412.0	2.734994	Y
8	IC 480-590807/13	100.0	264.663081	25.0	150526.0	2.646631	Y



Calibration / Carbon disulfide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

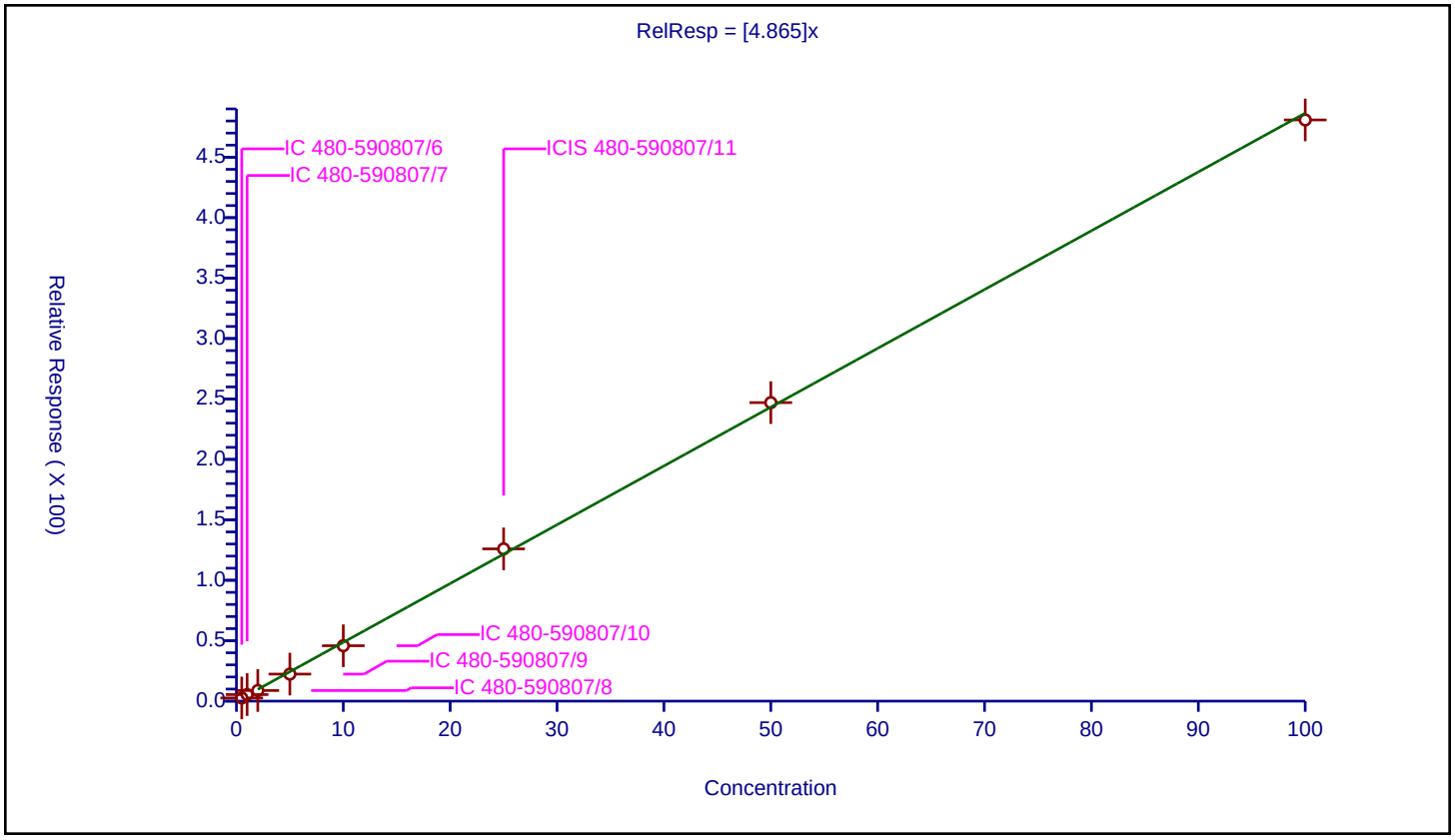
Curve Coefficients

Intercept:	0
Slope:	4.865

Error Coefficients

Standard Error:	1260000
Relative Standard Error:	7.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	2.624055	25.0	137802.0	5.24811	Y
2	IC 480-590807/7	1.0	5.437461	25.0	133909.0	5.437461	Y
3	IC 480-590807/8	2.0	8.772309	25.0	145851.0	4.386154	Y
4	IC 480-590807/9	5.0	22.382433	25.0	148745.0	4.476487	Y
5	IC 480-590807/10	10.0	45.838435	25.0	141299.0	4.583843	Y
6	ICIS 480-590807/11	25.0	125.976721	25.0	144335.0	5.039069	Y
7	IC 480-590807/12	50.0	246.989147	25.0	146412.0	4.939783	Y
8	IC 480-590807/13	100.0	480.858124	25.0	150526.0	4.808581	Y



Calibration / 3-Chloro-1-propene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

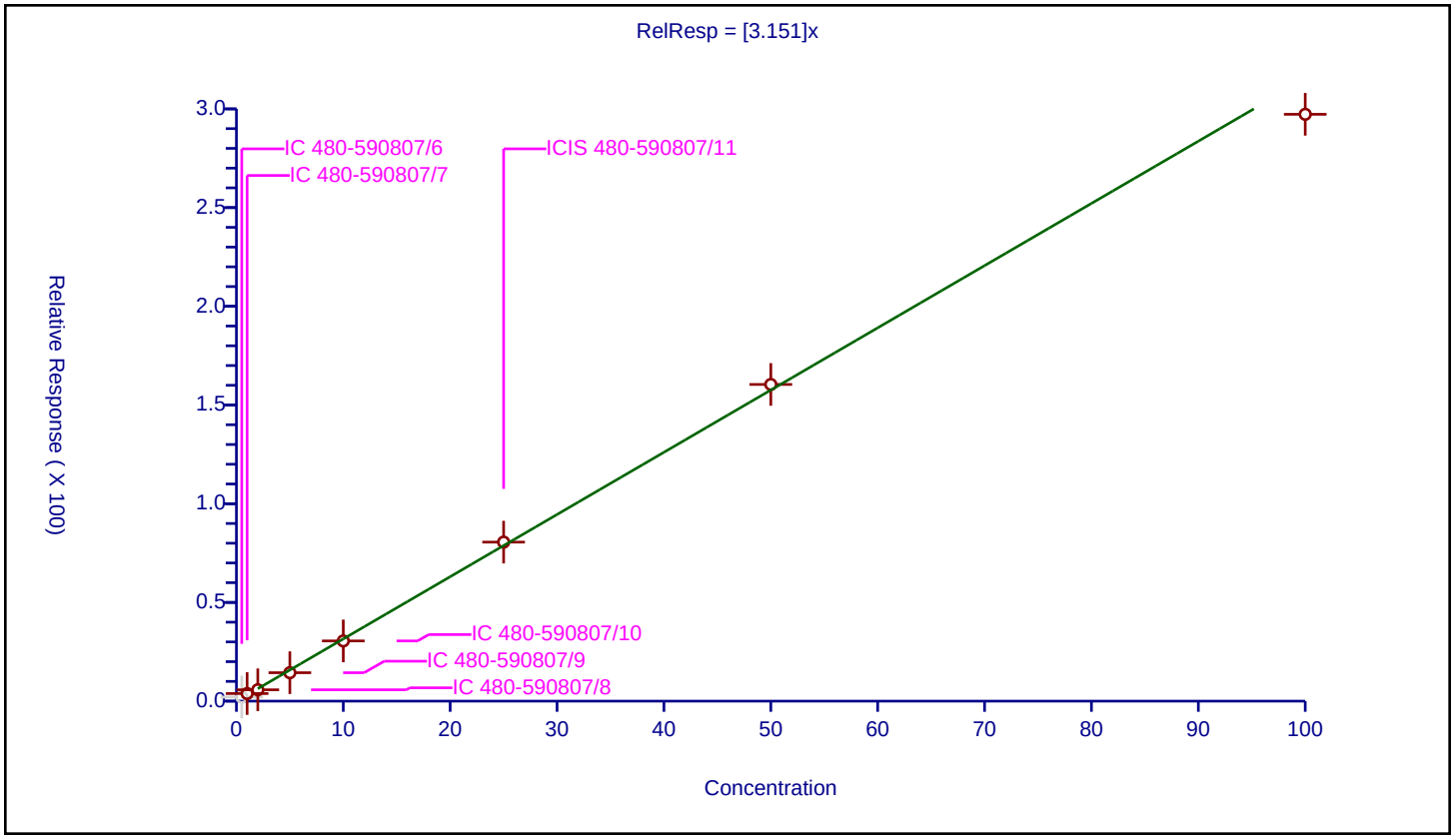
Curve Coefficients

Intercept:	0
Slope:	3.151

Error Coefficients

Standard Error:	850000
Relative Standard Error:	10.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	2.060747	25.0	137802.0	4.121493	N
2	IC 480-590807/7	1.0	3.848696	25.0	133909.0	3.848696	Y
3	IC 480-590807/8	2.0	5.758617	25.0	145851.0	2.879308	Y
4	IC 480-590807/9	5.0	14.397795	25.0	148745.0	2.879559	Y
5	IC 480-590807/10	10.0	30.496146	25.0	141299.0	3.049615	Y
6	ICIS 480-590807/11	25.0	80.555479	25.0	144335.0	3.222219	Y
7	IC 480-590807/12	50.0	160.422131	25.0	146412.0	3.208443	Y
8	IC 480-590807/13	100.0	297.265921	25.0	150526.0	2.972659	Y



Calibration / Methyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

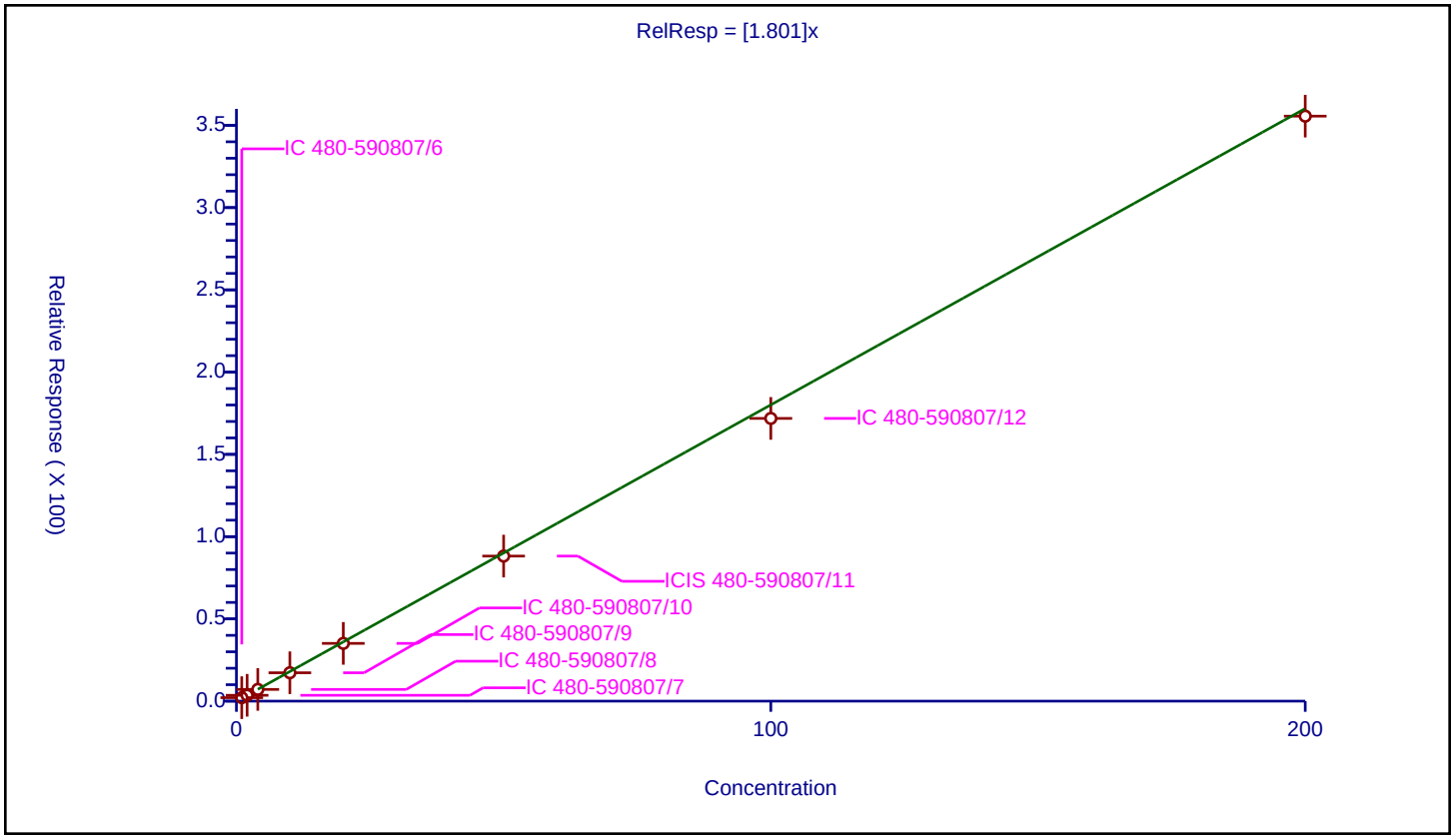
Curve Coefficients

Intercept:	0
Slope:	1.801

Error Coefficients

Standard Error:	919000
Relative Standard Error:	7.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	1.0	2.112633	25.0	137802.0	2.112633	Y
2	IC 480-590807/7	2.0	3.546625	25.0	133909.0	1.773312	Y
3	IC 480-590807/8	4.0	7.123708	25.0	145851.0	1.780927	Y
4	IC 480-590807/9	10.0	17.255202	25.0	148745.0	1.72552	Y
5	IC 480-590807/10	20.0	35.11419	25.0	141299.0	1.75571	Y
6	ICIS 480-590807/11	50.0	88.177504	25.0	144335.0	1.76355	Y
7	IC 480-590807/12	100.0	171.856986	25.0	146412.0	1.71857	Y
8	IC 480-590807/13	200.0	355.589732	25.0	150526.0	1.777949	Y



Calibration / Methylene Chloride

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

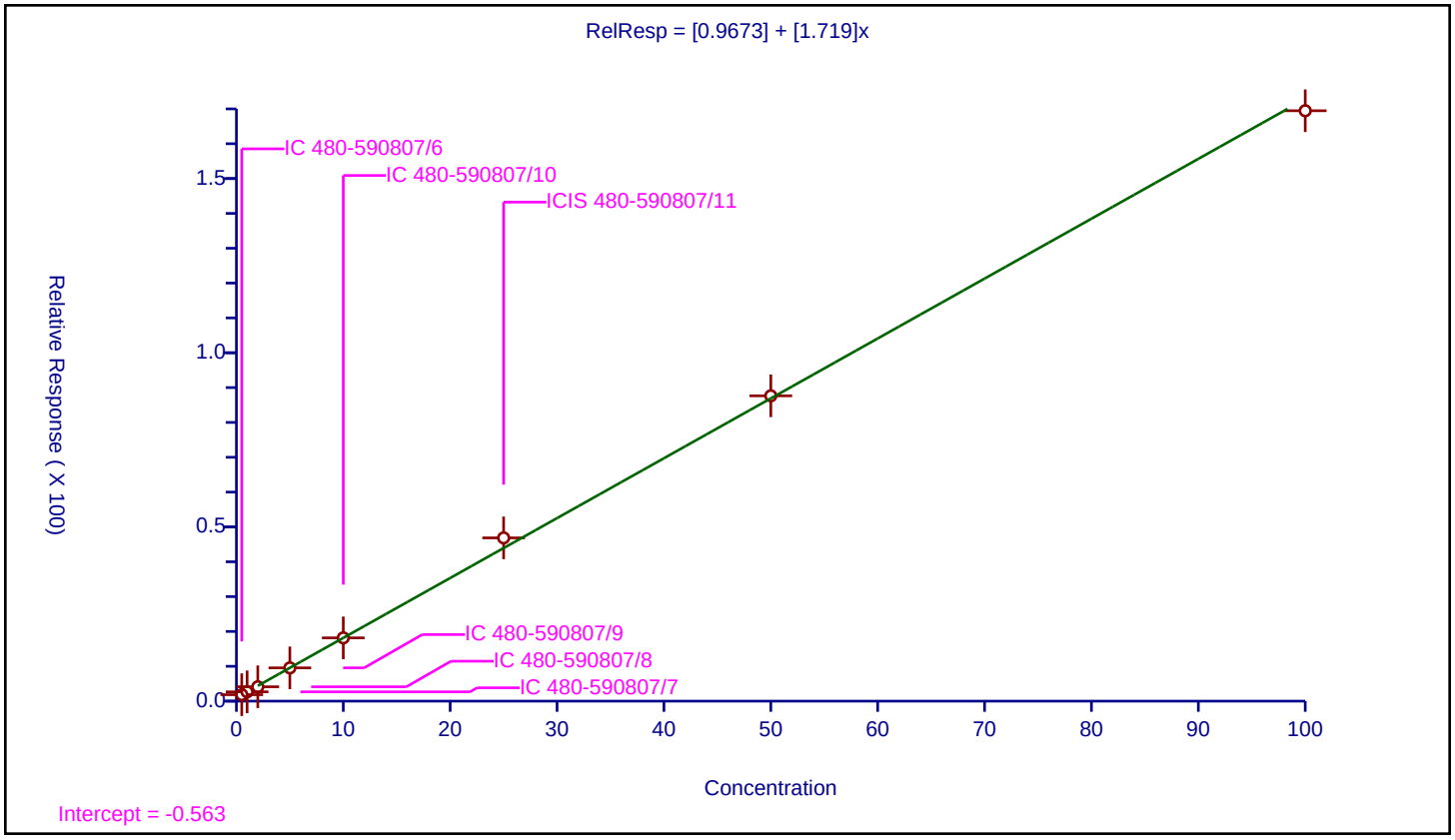
Curve Coefficients

Intercept:	0.9673
Slope:	1.719

Error Coefficients

Standard Error:	482000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.856287	25.0	137802.0	3.712573	Y
2	IC 480-590807/7	1.0	2.670097	25.0	133909.0	2.670097	Y
3	IC 480-590807/8	2.0	4.125786	25.0	145851.0	2.062893	Y
4	IC 480-590807/9	5.0	9.552758	25.0	148745.0	1.910552	Y
5	IC 480-590807/10	10.0	18.161133	25.0	141299.0	1.816113	Y
6	ICIS 480-590807/11	25.0	46.858697	25.0	144335.0	1.874348	Y
7	IC 480-590807/12	50.0	87.636942	25.0	146412.0	1.752739	Y
8	IC 480-590807/13	100.0	169.462917	25.0	150526.0	1.694629	Y



Calibration / 2-Methyl-2-propanol

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

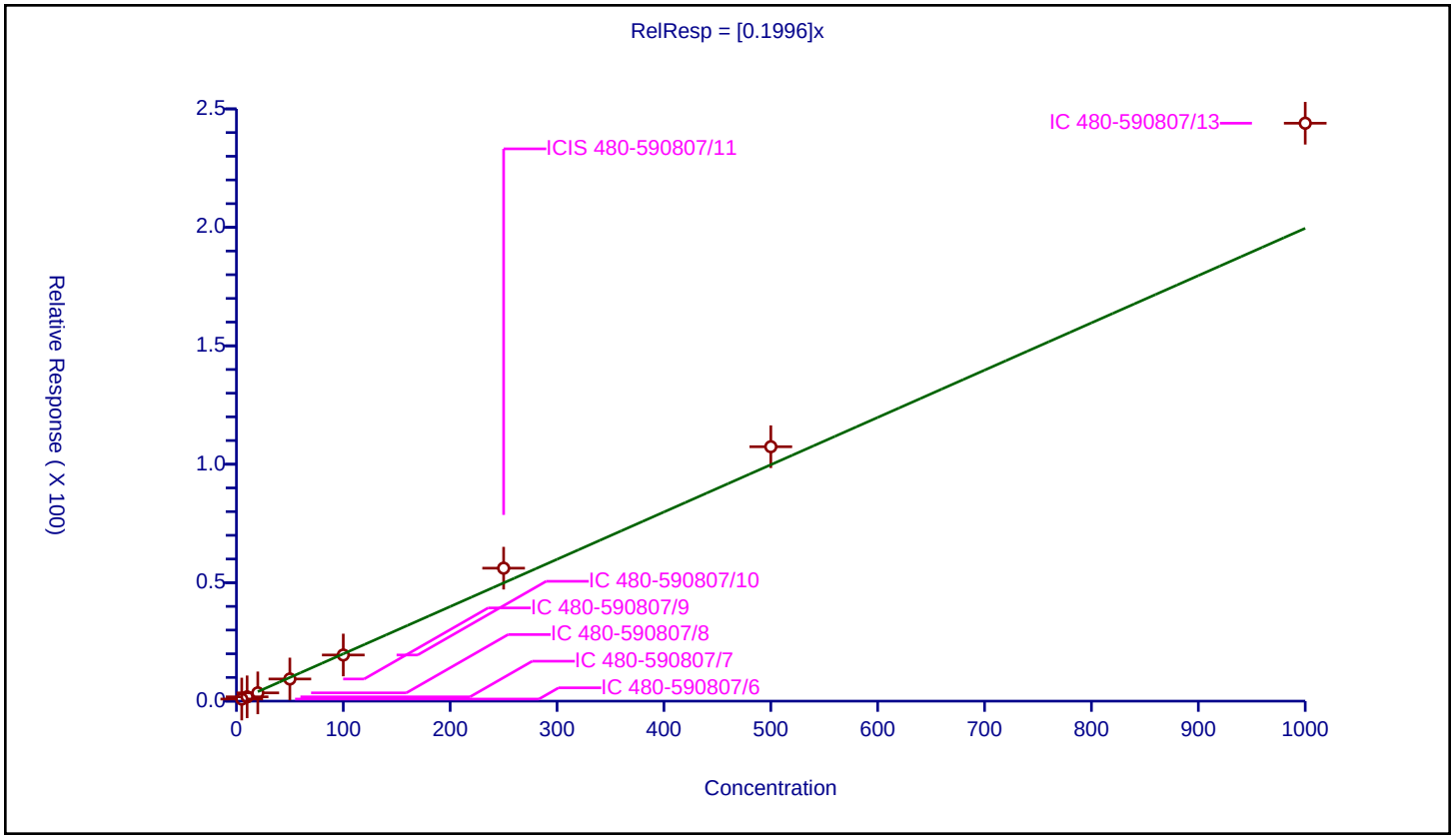
Curve Coefficients

Intercept:	0
Slope:	0.1996

Error Coefficients

Standard Error:	618000
Relative Standard Error:	12.7
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	5.0	0.879886	25.0	137802.0	0.175977	Y
2	IC 480-590807/7	10.0	1.810185	25.0	133909.0	0.181018	Y
3	IC 480-590807/8	20.0	3.495177	25.0	145851.0	0.174759	Y
4	IC 480-590807/9	50.0	9.350062	25.0	148745.0	0.187001	Y
5	IC 480-590807/10	100.0	19.474306	25.0	141299.0	0.194743	Y
6	ICIS 480-590807/11	250.0	56.12949	25.0	144335.0	0.224518	Y
7	IC 480-590807/12	500.0	107.391983	25.0	146412.0	0.214784	Y
8	IC 480-590807/13	1000.0	243.950381	25.0	150526.0	0.24395	Y



Calibration / Methyl tert-butyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

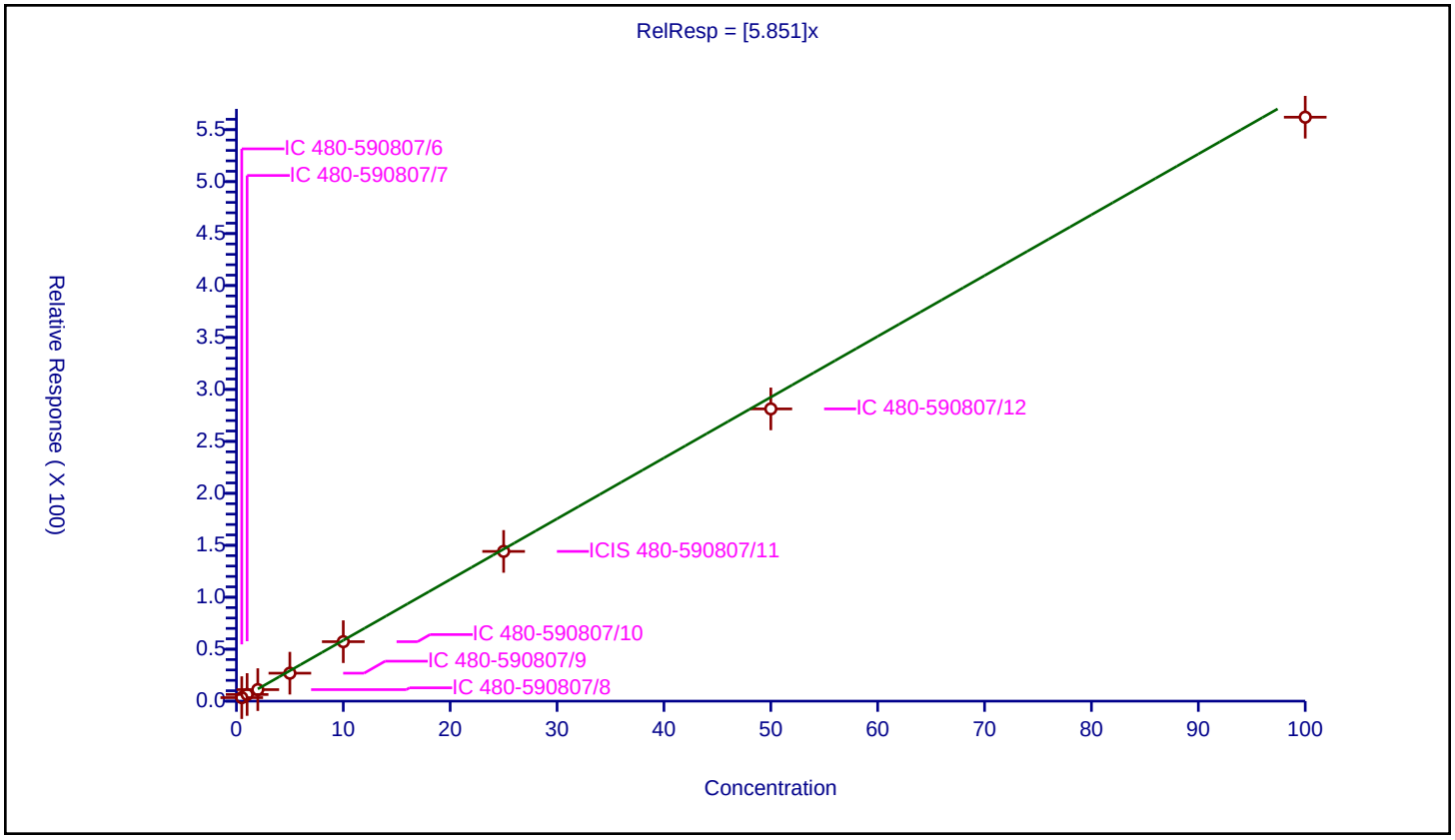
Curve Coefficients

Intercept:	0
Slope:	5.851

Error Coefficients

Standard Error:	1460000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	3.37604	25.0	137802.0	6.752079	Y
2	IC 480-590807/7	1.0	6.394454	25.0	133909.0	6.394454	Y
3	IC 480-590807/8	2.0	11.098998	25.0	145851.0	5.549499	Y
4	IC 480-590807/9	5.0	26.900232	25.0	148745.0	5.380046	Y
5	IC 480-590807/10	10.0	57.218381	25.0	141299.0	5.721838	Y
6	ICIS 480-590807/11	25.0	144.102435	25.0	144335.0	5.764097	Y
7	IC 480-590807/12	50.0	281.270832	25.0	146412.0	5.625417	Y
8	IC 480-590807/13	100.0	562.001747	25.0	150526.0	5.620017	Y



Calibration / trans-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

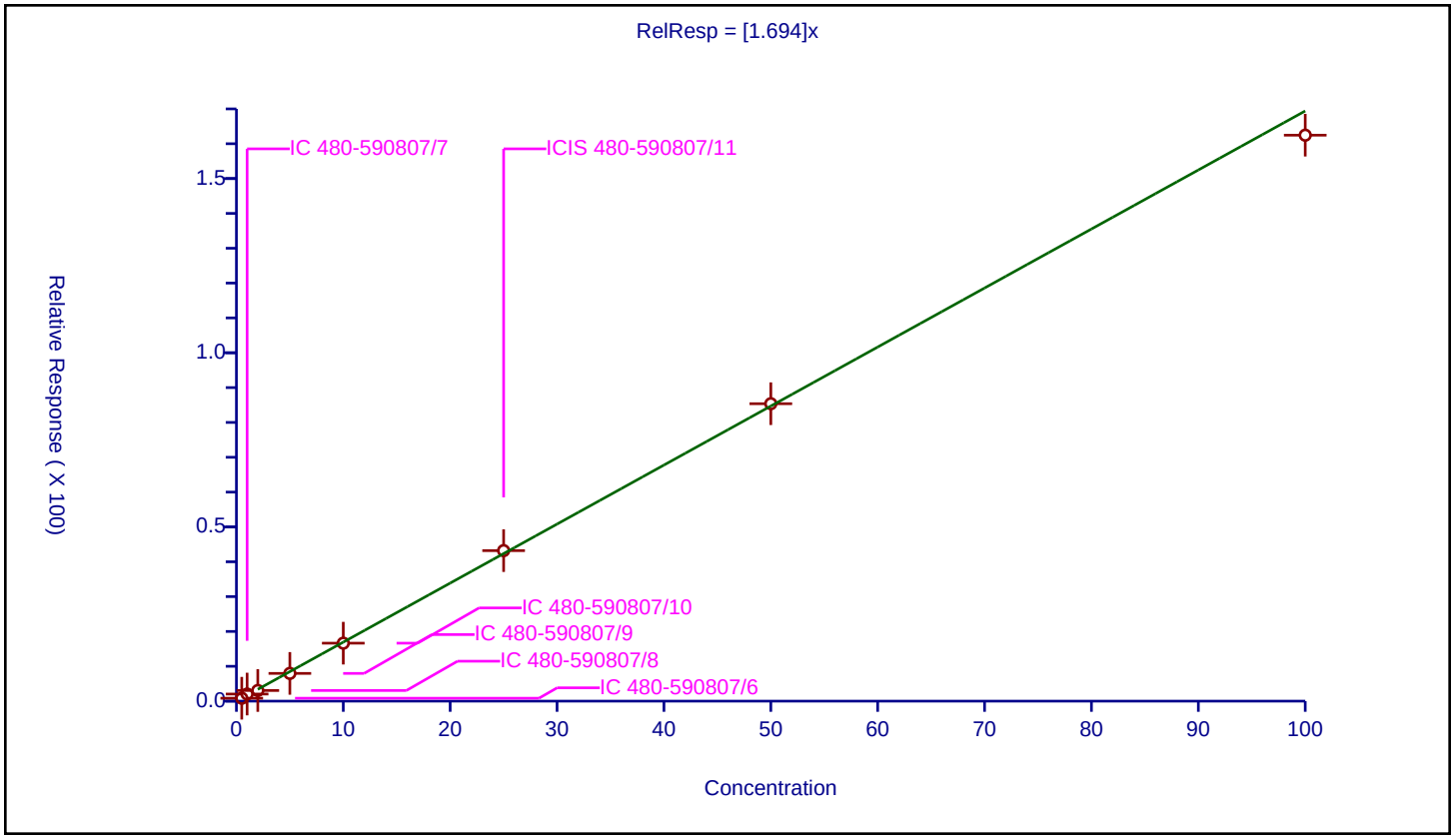
Curve Coefficients

Intercept:	0
Slope:	1.694

Error Coefficients

Standard Error:	428000
Relative Standard Error:	9.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.835801	25.0	137802.0	1.671601	Y
2	IC 480-590807/7	1.0	2.034964	25.0	133909.0	2.034964	Y
3	IC 480-590807/8	2.0	3.056201	25.0	145851.0	1.528101	Y
4	IC 480-590807/9	5.0	7.964806	25.0	148745.0	1.592961	Y
5	IC 480-590807/10	10.0	16.643076	25.0	141299.0	1.664308	Y
6	ICIS 480-590807/11	25.0	43.204351	25.0	144335.0	1.728174	Y
7	IC 480-590807/12	50.0	85.375686	25.0	146412.0	1.707514	Y
8	IC 480-590807/13	100.0	162.451503	25.0	150526.0	1.624515	Y



Calibration / Acrylonitrile

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

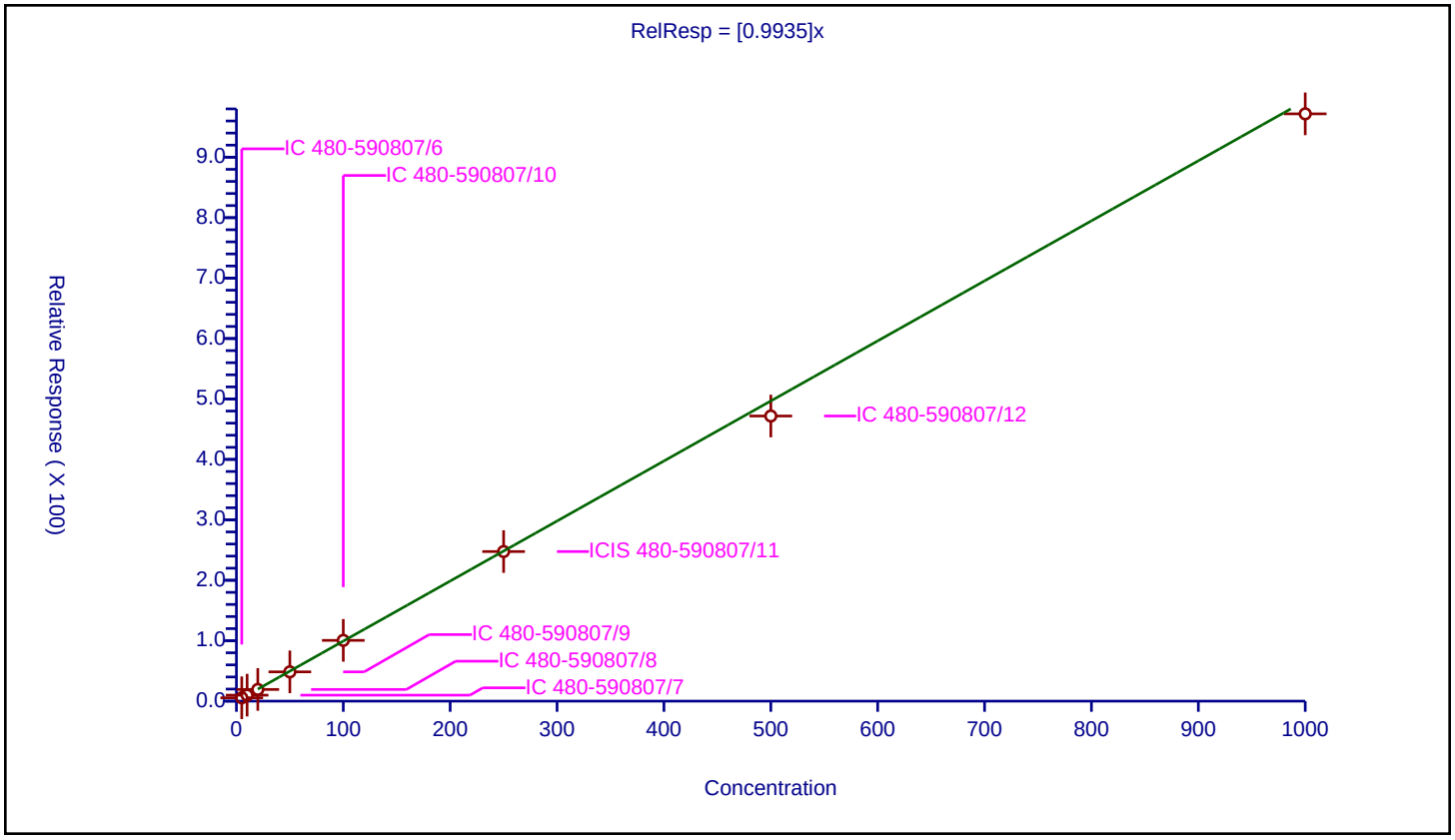
Curve Coefficients

Intercept:	0
Slope:	0.9935

Error Coefficients

Standard Error:	2520000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	5.0	5.552895	25.0	137802.0	1.110579	Y
2	IC 480-590807/7	10.0	9.900193	25.0	133909.0	0.990019	Y
3	IC 480-590807/8	20.0	19.329487	25.0	145851.0	0.966474	Y
4	IC 480-590807/9	50.0	48.46936	25.0	148745.0	0.969387	Y
5	IC 480-590807/10	100.0	100.556798	25.0	141299.0	1.005568	Y
6	ICIS 480-590807/11	250.0	247.534035	25.0	144335.0	0.990136	Y
7	IC 480-590807/12	500.0	471.822494	25.0	146412.0	0.943645	Y
8	IC 480-590807/13	1000.0	971.802546	25.0	150526.0	0.971803	Y



Calibration / Hexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

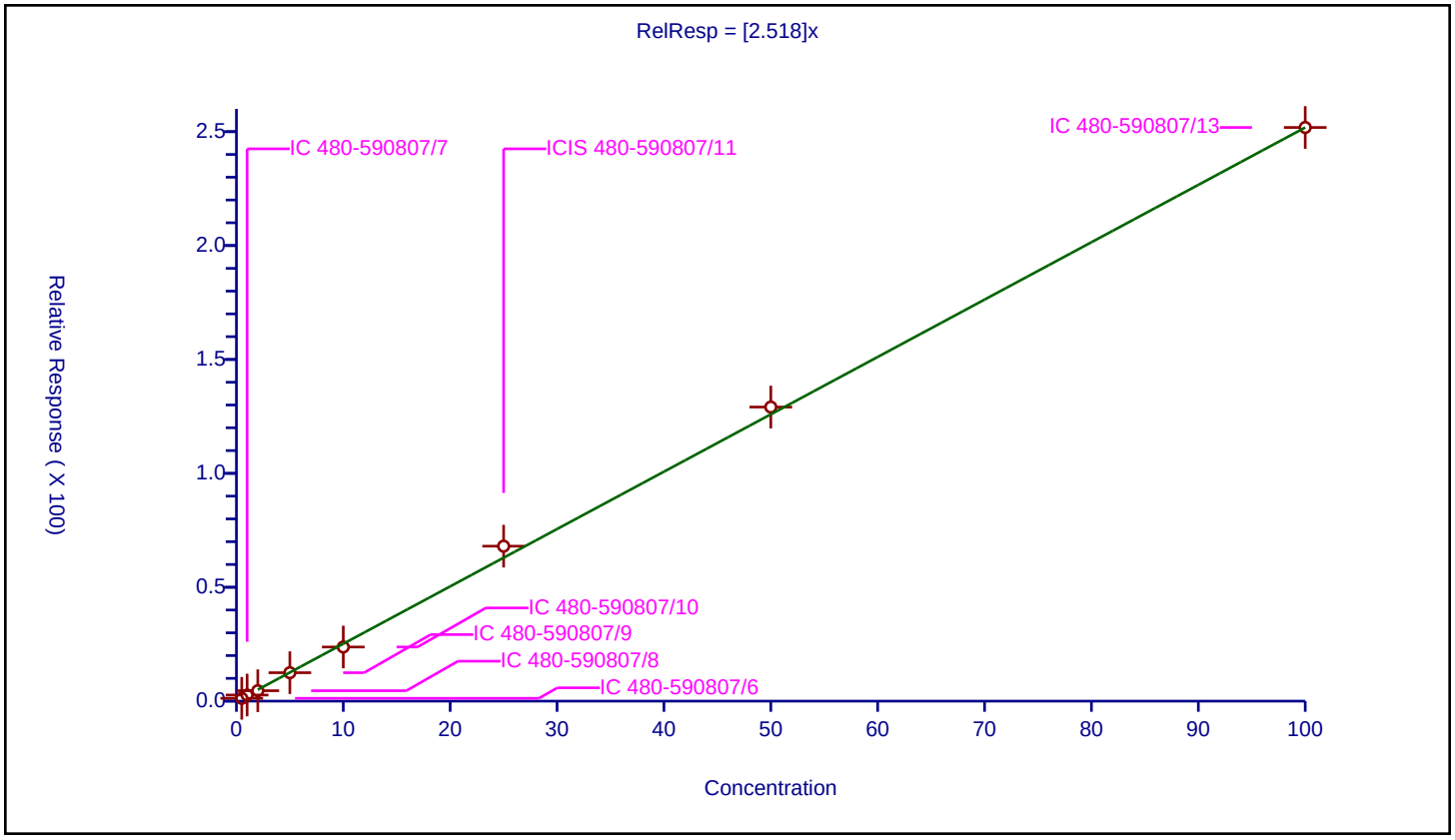
Curve Coefficients

Intercept:	0
Slope:	2.518

Error Coefficients

Standard Error:	660000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.242725	25.0	137802.0	2.48545	Y
2	IC 480-590807/7	1.0	2.678871	25.0	133909.0	2.678871	Y
3	IC 480-590807/8	2.0	4.573503	25.0	145851.0	2.286752	Y
4	IC 480-590807/9	5.0	12.483109	25.0	148745.0	2.496622	Y
5	IC 480-590807/10	10.0	23.766446	25.0	141299.0	2.376645	Y
6	ICIS 480-590807/11	25.0	68.036166	25.0	144335.0	2.721447	Y
7	IC 480-590807/12	50.0	129.105538	25.0	146412.0	2.582111	Y
8	IC 480-590807/13	100.0	251.840878	25.0	150526.0	2.518409	Y



Calibration / 1,1-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

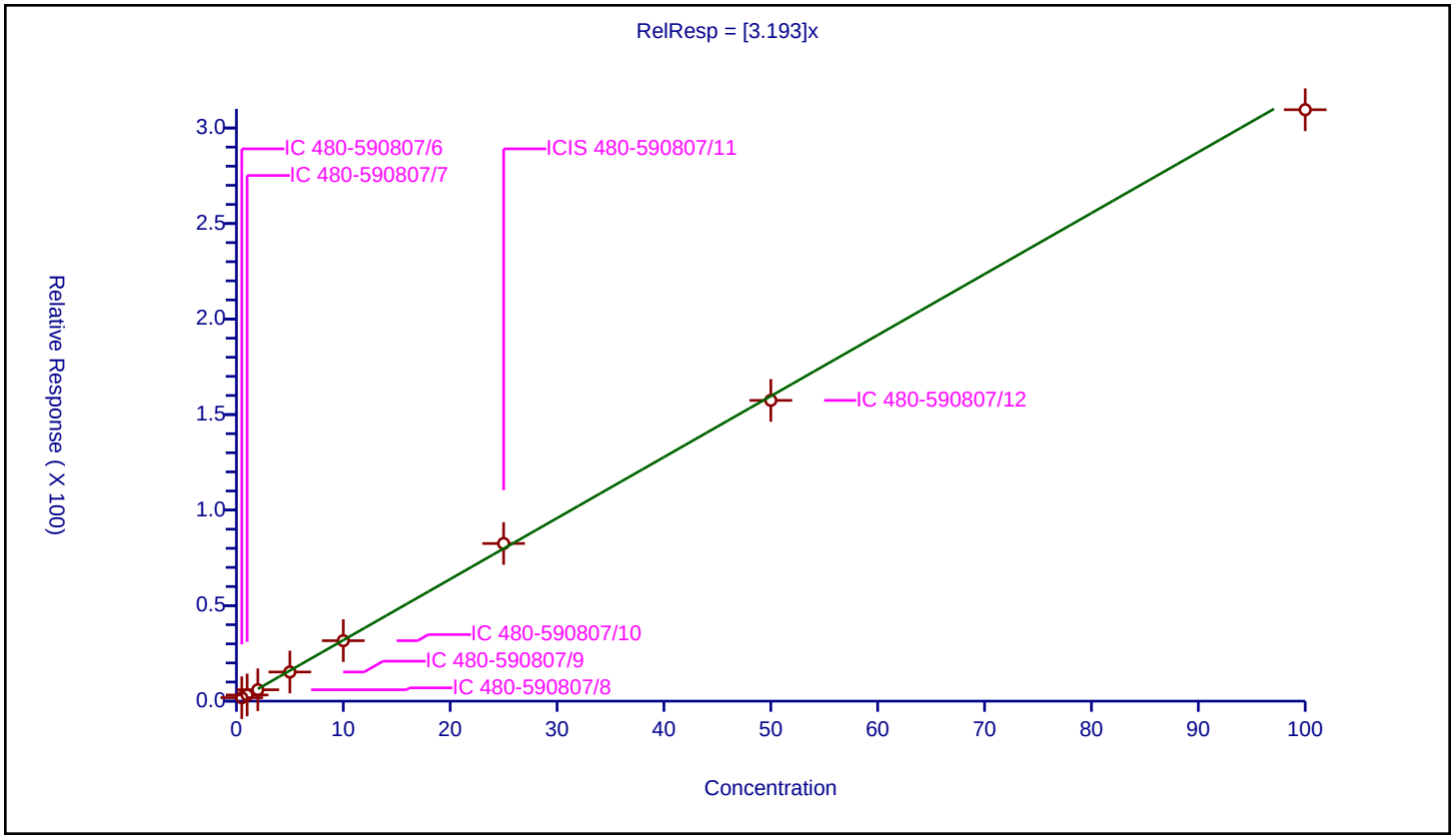
Curve Coefficients

Intercept:	0
Slope:	3.193

Error Coefficients

Standard Error:	810000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.800409	25.0	137802.0	3.600819	Y
2	IC 480-590807/7	1.0	3.207215	25.0	133909.0	3.207215	Y
3	IC 480-590807/8	2.0	5.954193	25.0	145851.0	2.977096	Y
4	IC 480-590807/9	5.0	15.25463	25.0	148745.0	3.050926	Y
5	IC 480-590807/10	10.0	31.640351	25.0	141299.0	3.164035	Y
6	ICIS 480-590807/11	25.0	82.525548	25.0	144335.0	3.301022	Y
7	IC 480-590807/12	50.0	157.429036	25.0	146412.0	3.148581	Y
8	IC 480-590807/13	100.0	309.561637	25.0	150526.0	3.095616	Y



Calibration / Vinyl acetate

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

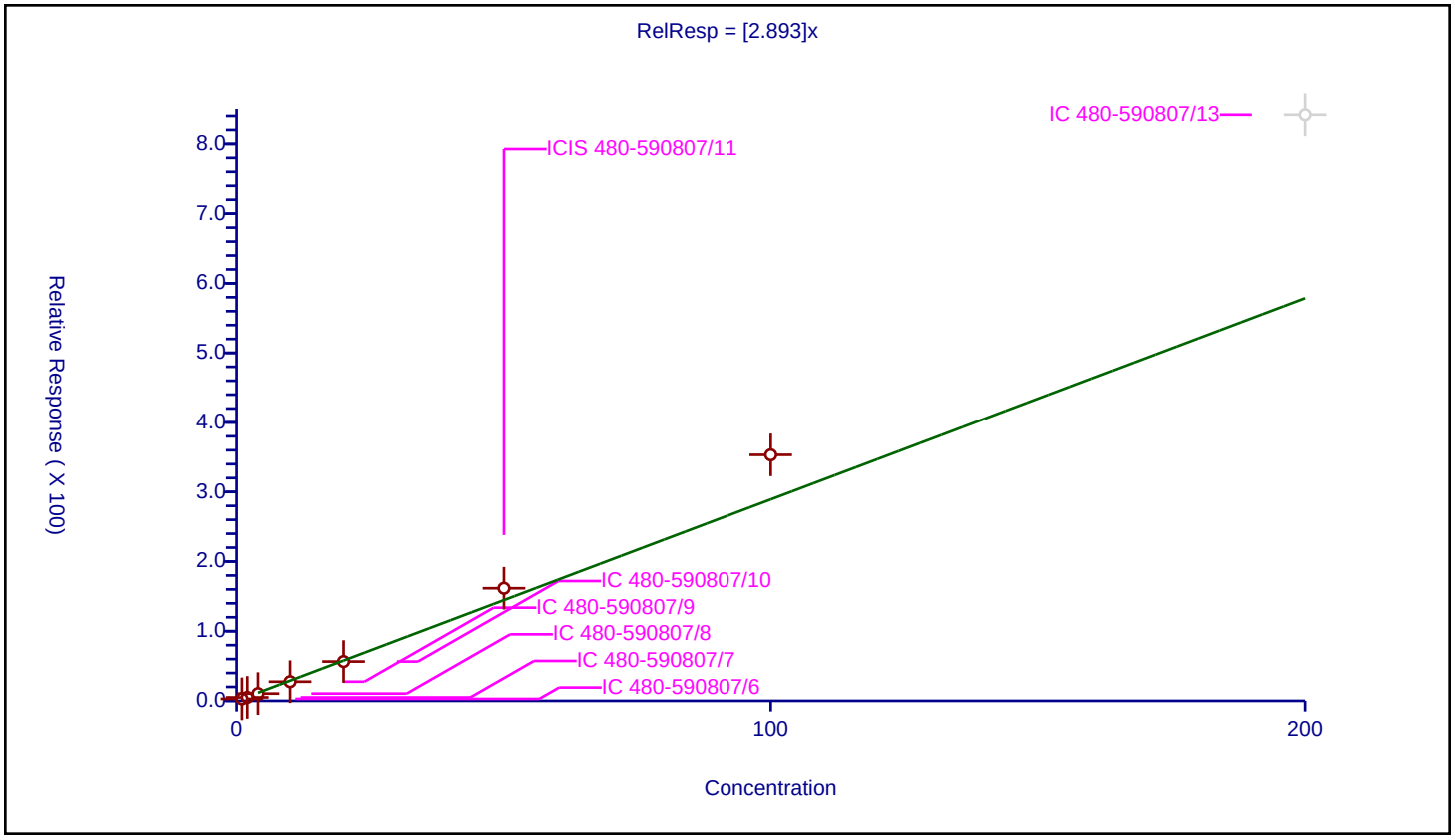
Curve Coefficients

Intercept:	0
Slope:	2.893

Error Coefficients

Standard Error:	939000
Relative Standard Error:	12.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.979

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	1.0	2.83432	25.0	137802.0	2.83432	Y
2	IC 480-590807/7	2.0	4.955791	25.0	133909.0	2.477895	Y
3	IC 480-590807/8	4.0	10.413367	25.0	145851.0	2.603342	Y
4	IC 480-590807/9	10.0	27.489832	25.0	148745.0	2.748983	Y
5	IC 480-590807/10	20.0	56.421312	25.0	141299.0	2.821066	Y
6	ICIS 480-590807/11	50.0	161.658988	25.0	144335.0	3.23318	Y
7	IC 480-590807/12	100.0	353.367723	25.0	146412.0	3.533677	Y
8	IC 480-590807/13	200.0	841.703427	25.0	150526.0	4.208517	N



Calibration / 2,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

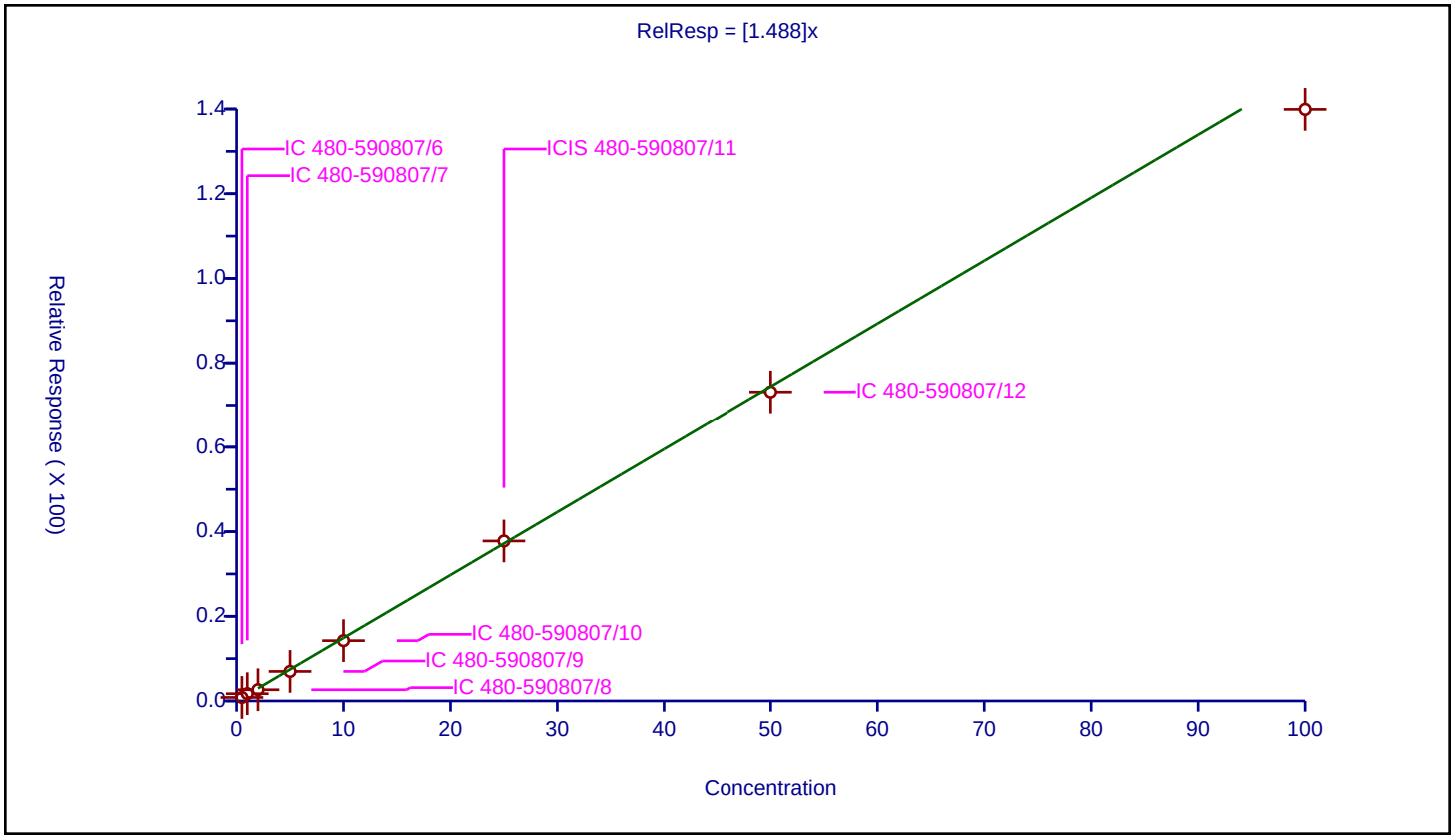
Curve Coefficients

Intercept:	0
Slope:	1.488

Error Coefficients

Standard Error:	368000
Relative Standard Error:	9.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.831809	25.0	137802.0	1.663619	Y
2	IC 480-590807/7	1.0	1.719825	25.0	133909.0	1.719825	Y
3	IC 480-590807/8	2.0	2.656135	25.0	145851.0	1.328068	Y
4	IC 480-590807/9	5.0	6.976705	25.0	148745.0	1.395341	Y
5	IC 480-590807/10	10.0	14.243731	25.0	141299.0	1.424373	Y
6	ICIS 480-590807/11	25.0	37.793674	25.0	144335.0	1.511747	Y
7	IC 480-590807/12	50.0	73.130105	25.0	146412.0	1.462602	Y
8	IC 480-590807/13	100.0	139.911377	25.0	150526.0	1.399114	Y



Calibration / cis-1,2-Dichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

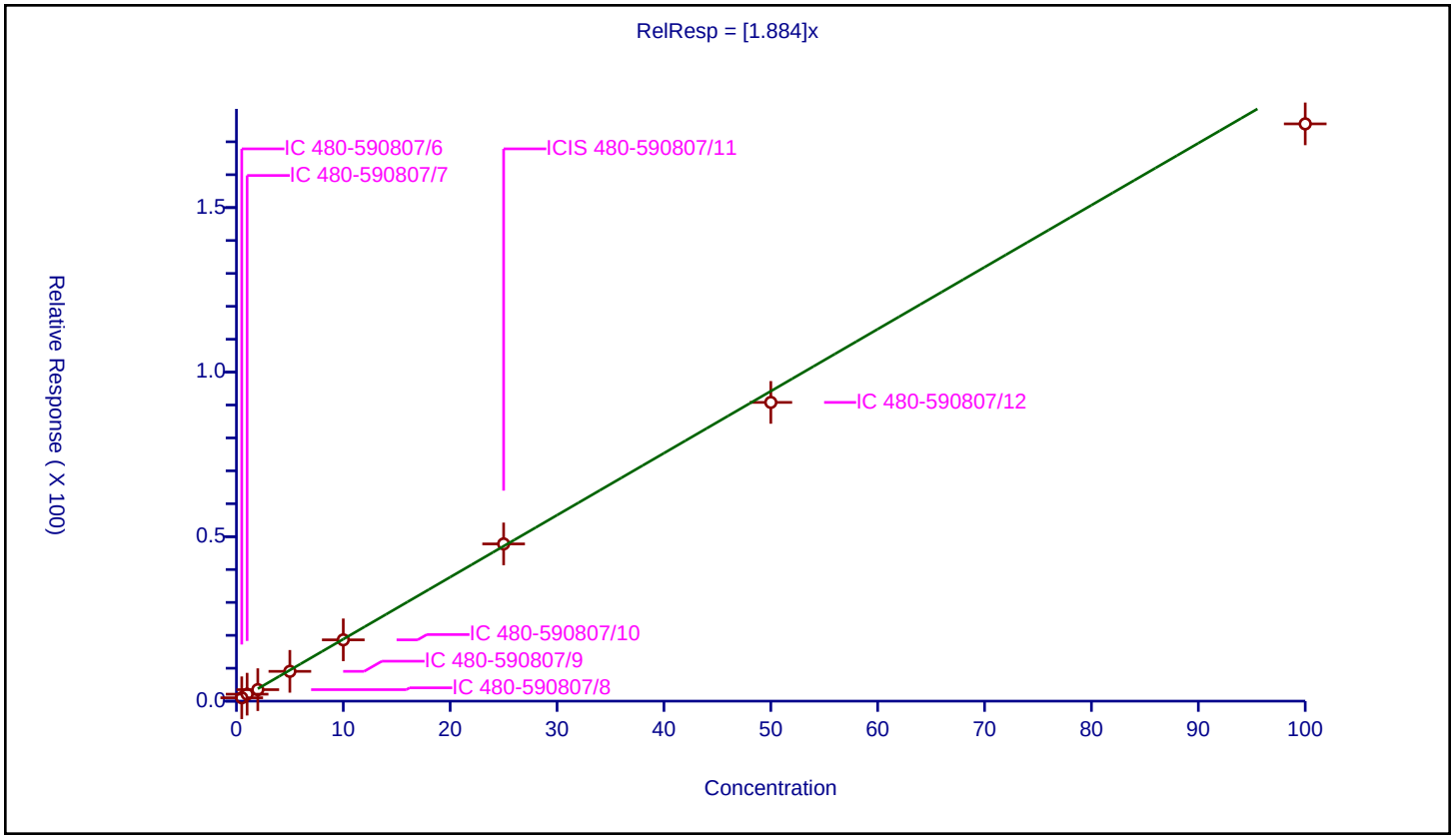
Curve Coefficients

Intercept:	0
Slope:	1.884

Error Coefficients

Standard Error:	461000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.025566	25.0	137802.0	2.051131	Y
2	IC 480-590807/7	1.0	2.120096	25.0	133909.0	2.120096	Y
3	IC 480-590807/8	2.0	3.494148	25.0	145851.0	1.747074	Y
4	IC 480-590807/9	5.0	9.054422	25.0	148745.0	1.810884	Y
5	IC 480-590807/10	10.0	18.626813	25.0	141299.0	1.862681	Y
6	ICIS 480-590807/11	25.0	47.788305	25.0	144335.0	1.911532	Y
7	IC 480-590807/12	50.0	90.793617	25.0	146412.0	1.815872	Y
8	IC 480-590807/13	100.0	175.449258	25.0	150526.0	1.754493	Y



Calibration / 2-Butanone (MEK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

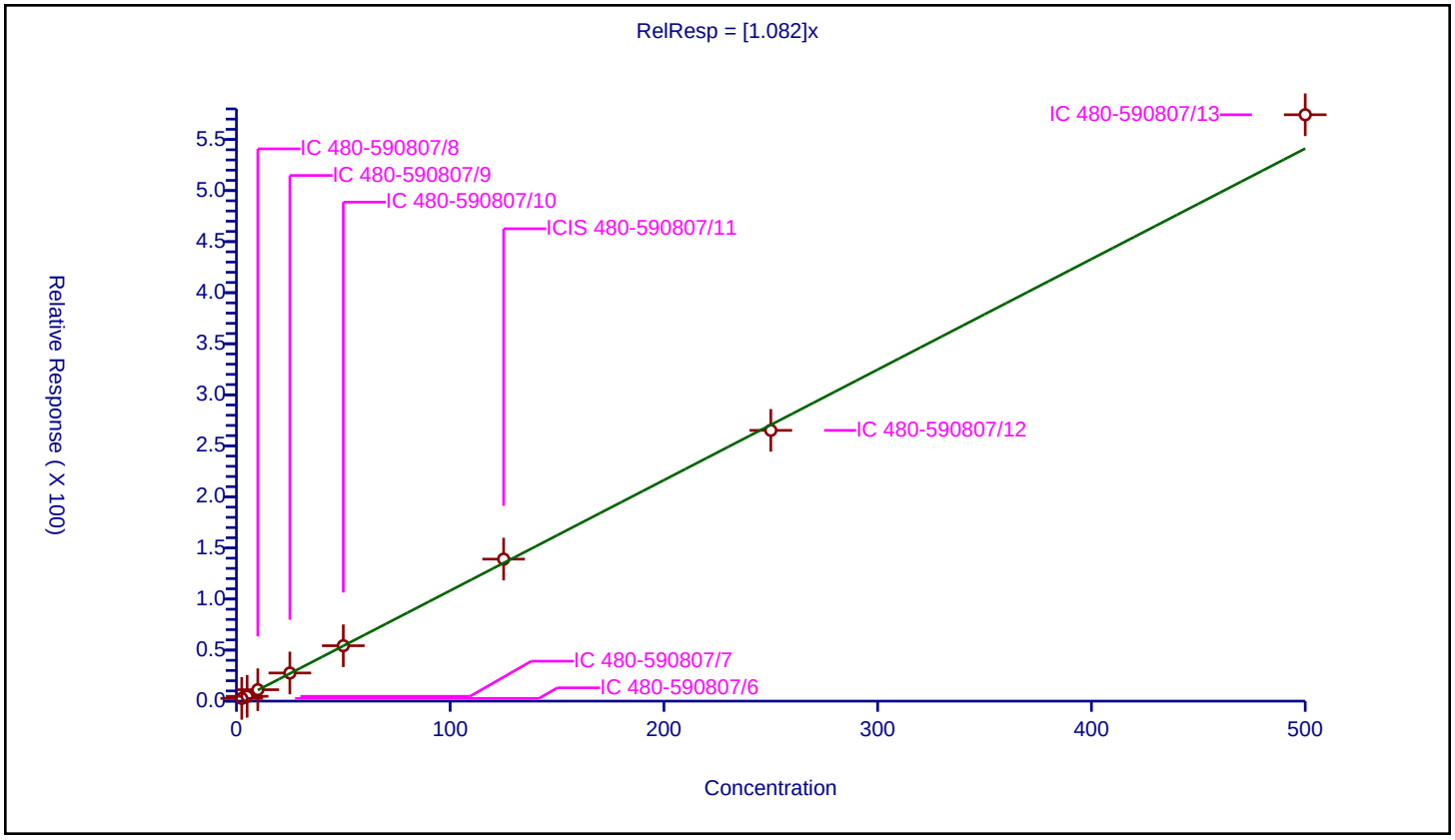
Curve Coefficients

Intercept:	0
Slope:	1.082

Error Coefficients

Standard Error:	1470000
Relative Standard Error:	5.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	2.5	2.700614	25.0	137802.0	1.080246	Y
2	IC 480-590807/7	5.0	4.746694	25.0	133909.0	0.949339	Y
3	IC 480-590807/8	10.0	11.196015	25.0	145851.0	1.119602	Y
4	IC 480-590807/9	25.0	27.545632	25.0	148745.0	1.101825	Y
5	IC 480-590807/10	50.0	54.275862	25.0	141299.0	1.085517	Y
6	ICIS 480-590807/11	125.0	139.092216	25.0	144335.0	1.112738	Y
7	IC 480-590807/12	250.0	265.17823	25.0	146412.0	1.060713	Y
8	IC 480-590807/13	500.0	574.261091	25.0	150526.0	1.148522	Y



Calibration / Chlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

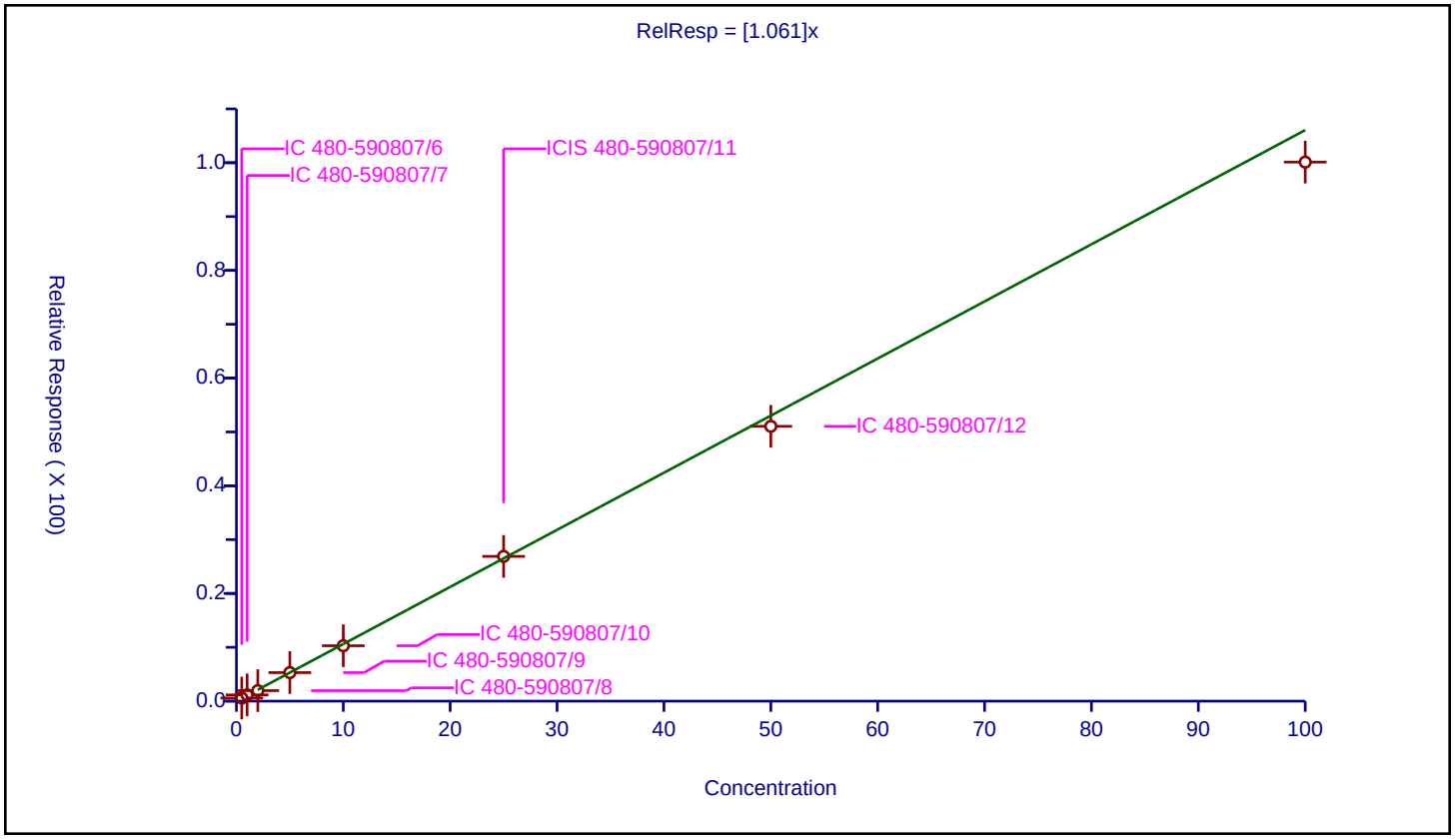
Curve Coefficients

Intercept:	0
Slope:	1.061

Error Coefficients

Standard Error:	262000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.58272	25.0	137802.0	1.16544	Y
2	IC 480-590807/7	1.0	1.158249	25.0	133909.0	1.158249	Y
3	IC 480-590807/8	2.0	1.94925	25.0	145851.0	0.974625	Y
4	IC 480-590807/9	5.0	5.299674	25.0	148745.0	1.059935	Y
5	IC 480-590807/10	10.0	10.288643	25.0	141299.0	1.028864	Y
6	ICIS 480-590807/11	25.0	26.884678	25.0	144335.0	1.075387	Y
7	IC 480-590807/12	50.0	51.042947	25.0	146412.0	1.020859	Y
8	IC 480-590807/13	100.0	100.115096	25.0	150526.0	1.001151	Y



Calibration / Tetrahydrofuran

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

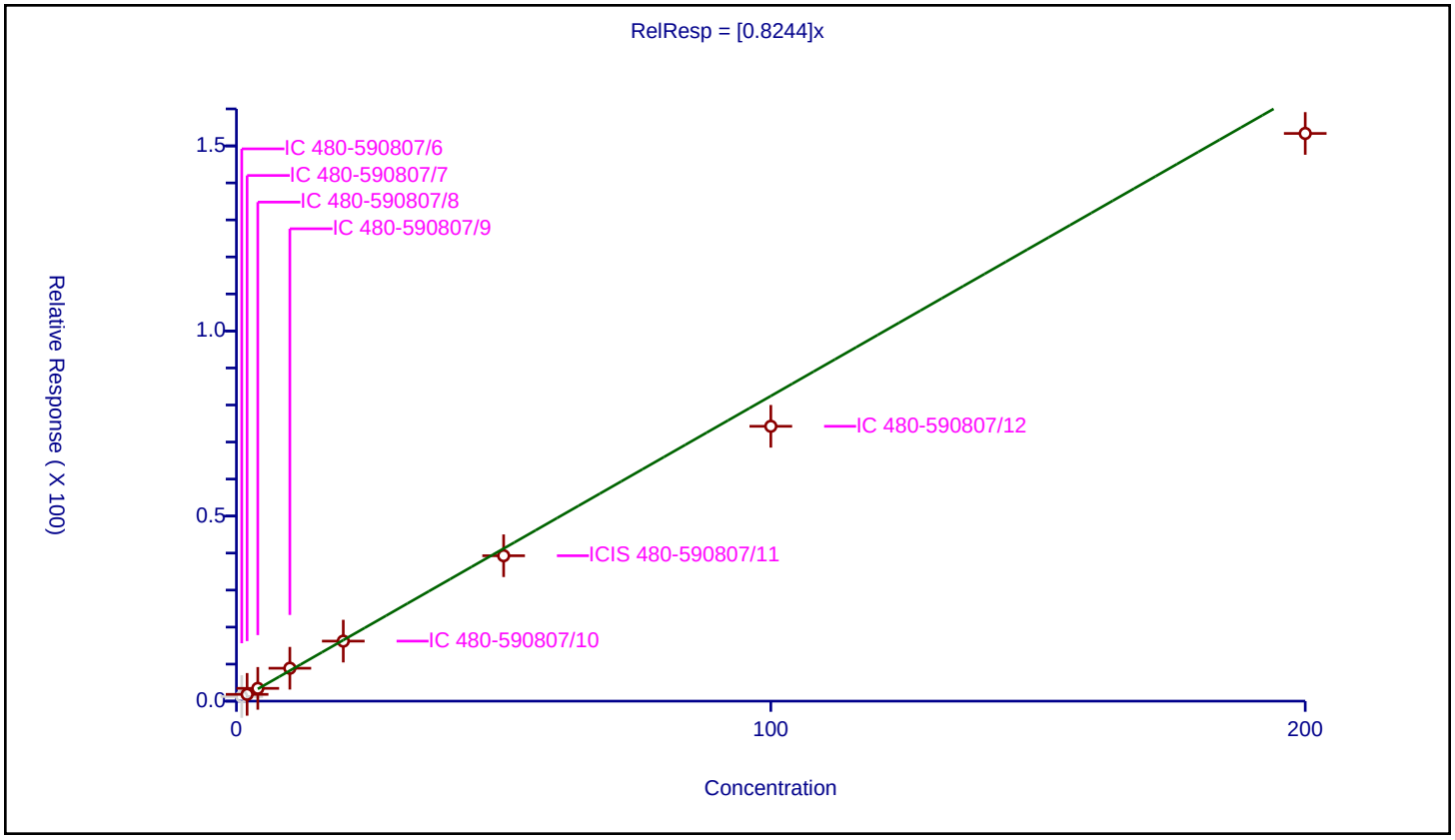
Curve Coefficients

Intercept:	0
Slope:	0.8244

Error Coefficients

Standard Error:	429000
Relative Standard Error:	7.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	1.0	1.246716	25.0	137802.0	1.246716	N
2	IC 480-590807/7	2.0	1.828294	25.0	133909.0	0.914147	Y
3	IC 480-590807/8	4.0	3.447011	25.0	145851.0	0.861753	Y
4	IC 480-590807/9	10.0	8.890887	25.0	148745.0	0.889089	Y
5	IC 480-590807/10	20.0	16.211898	25.0	141299.0	0.810595	Y
6	ICIS 480-590807/11	50.0	39.280667	25.0	144335.0	0.785613	Y
7	IC 480-590807/12	100.0	74.253306	25.0	146412.0	0.742533	Y
8	IC 480-590807/13	200.0	153.362542	25.0	150526.0	0.766813	Y



Calibration / Chloroform

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

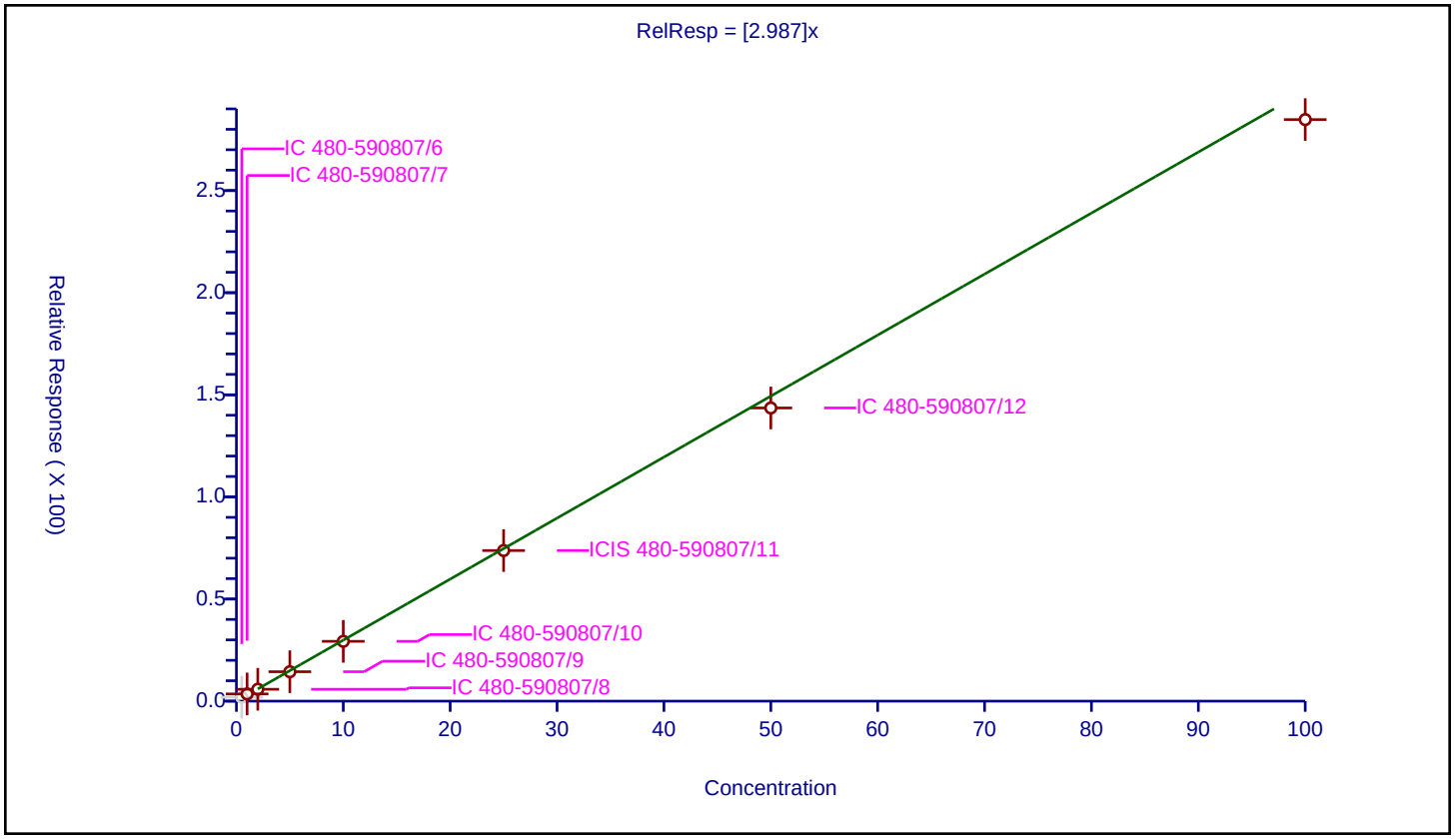
Curve Coefficients

Intercept:	0
Slope:	2.987

Error Coefficients

Standard Error:	802000
Relative Standard Error:	8.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.915248	25.0	137802.0	3.830496	N
2	IC 480-590807/7	1.0	3.525715	25.0	133909.0	3.525715	Y
3	IC 480-590807/8	2.0	5.813639	25.0	145851.0	2.906819	Y
4	IC 480-590807/9	5.0	14.40872	25.0	148745.0	2.881744	Y
5	IC 480-590807/10	10.0	29.2794	25.0	141299.0	2.92794	Y
6	ICIS 480-590807/11	25.0	73.741469	25.0	144335.0	2.949659	Y
7	IC 480-590807/12	50.0	143.553636	25.0	146412.0	2.871073	Y
8	IC 480-590807/13	100.0	284.762599	25.0	150526.0	2.847626	Y



Calibration / Cyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

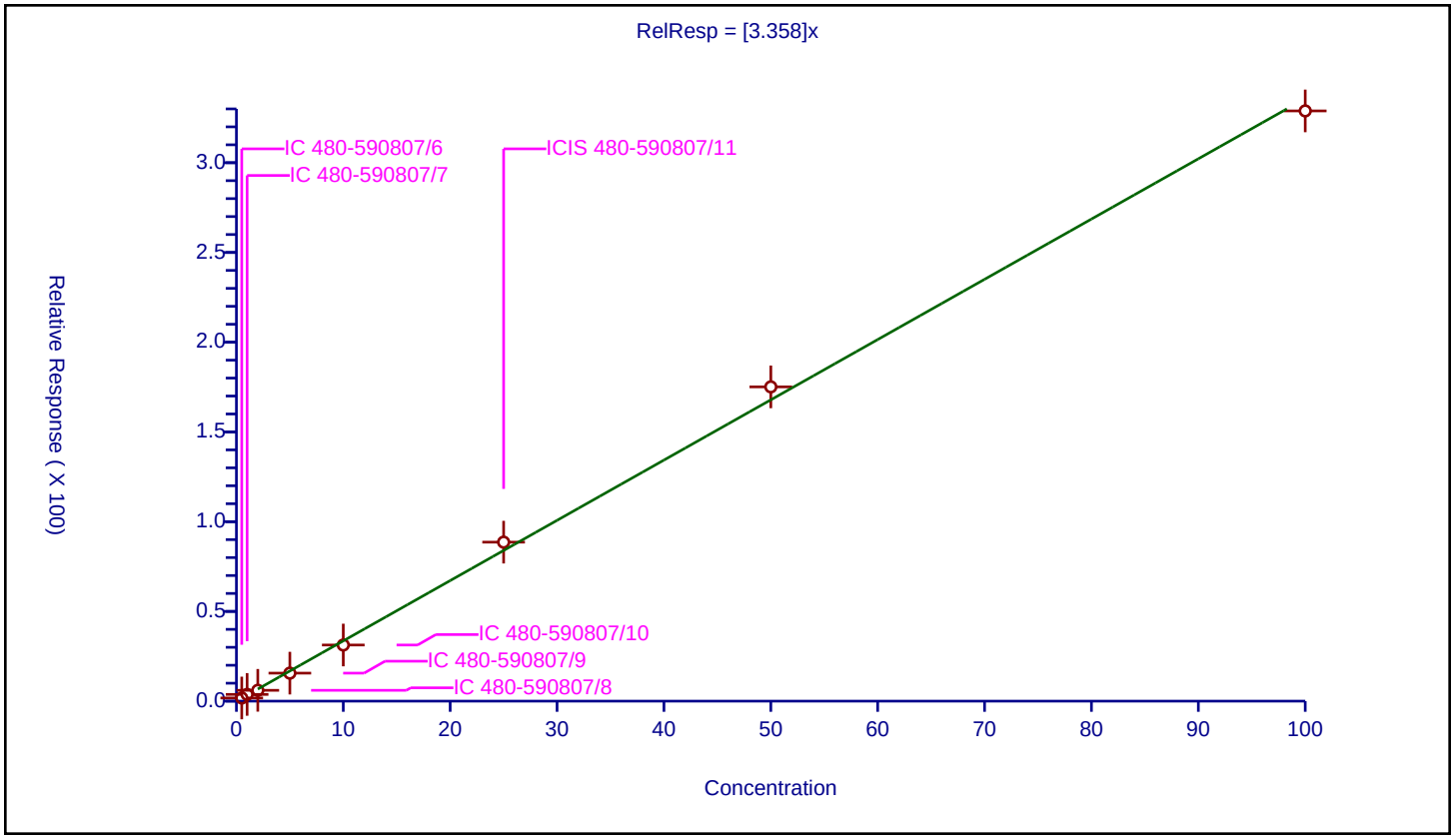
Curve Coefficients

Intercept:	0
Slope:	3.358

Error Coefficients

Standard Error:	868000
Relative Standard Error:	7.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.761404	25.0	137802.0	3.522808	Y
2	IC 480-590807/7	1.0	3.741533	25.0	133909.0	3.741533	Y
3	IC 480-590807/8	2.0	6.029098	25.0	145851.0	3.014549	Y
4	IC 480-590807/9	5.0	15.601197	25.0	148745.0	3.120239	Y
5	IC 480-590807/10	10.0	31.273576	25.0	141299.0	3.127358	Y
6	ICIS 480-590807/11	25.0	88.596841	25.0	144335.0	3.543874	Y
7	IC 480-590807/12	50.0	175.107402	25.0	146412.0	3.502148	Y
8	IC 480-590807/13	100.0	328.879064	25.0	150526.0	3.288791	Y



Calibration / 1,1,1-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

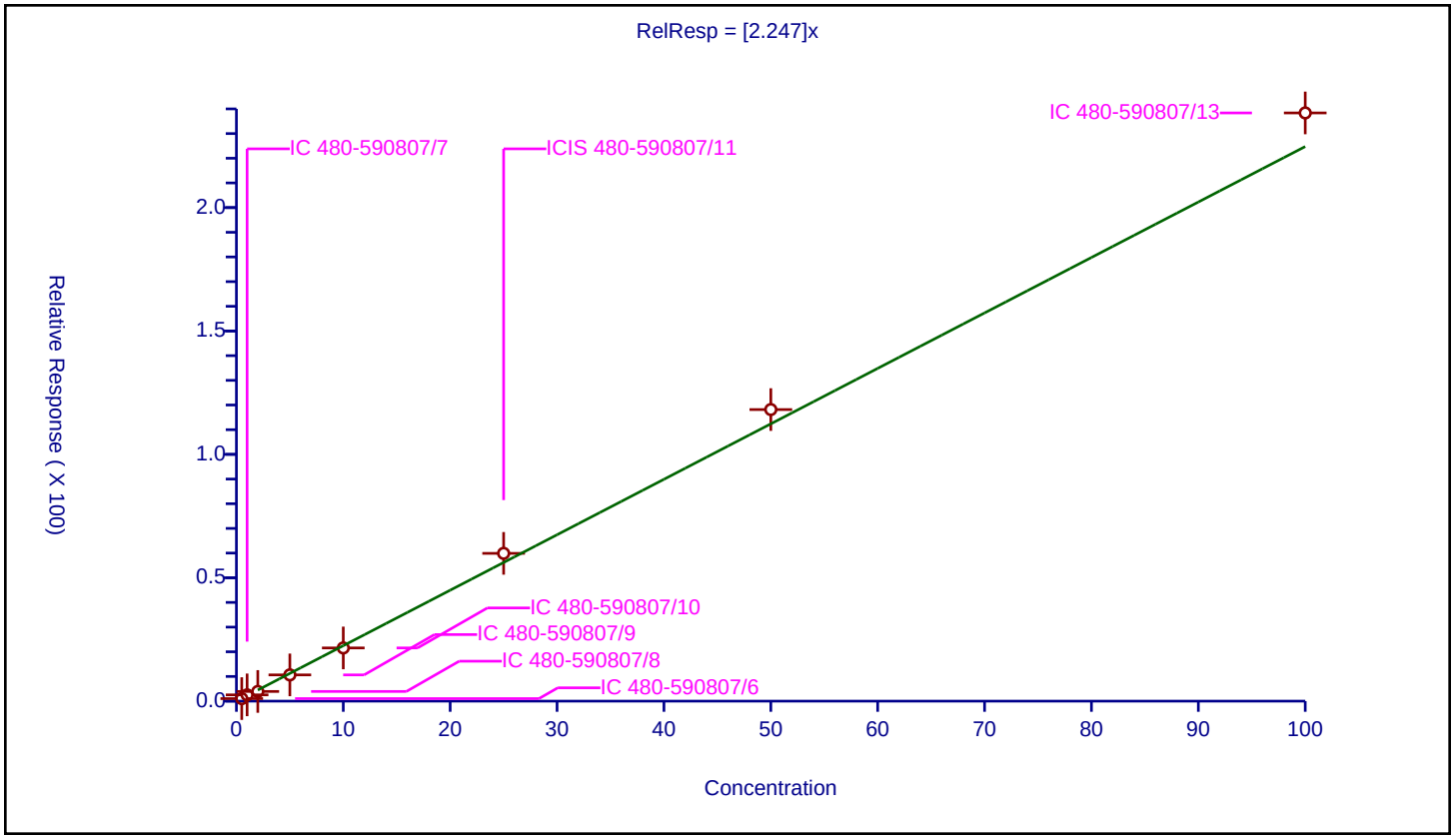
Curve Coefficients

Intercept:	0
Slope:	2.247

Error Coefficients

Standard Error:	618000
Relative Standard Error:	8.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.02611	25.0	137802.0	2.05222	Y
2	IC 480-590807/7	1.0	2.538664	25.0	133909.0	2.538664	Y
3	IC 480-590807/8	2.0	3.923353	25.0	145851.0	1.961677	Y
4	IC 480-590807/9	5.0	10.638341	25.0	148745.0	2.127668	Y
5	IC 480-590807/10	10.0	21.563139	25.0	141299.0	2.156314	Y
6	ICIS 480-590807/11	25.0	59.888627	25.0	144335.0	2.395545	Y
7	IC 480-590807/12	50.0	118.15886	25.0	146412.0	2.363177	Y
8	IC 480-590807/13	100.0	238.354504	25.0	150526.0	2.383545	Y



Calibration / Dibromofluoromethane (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

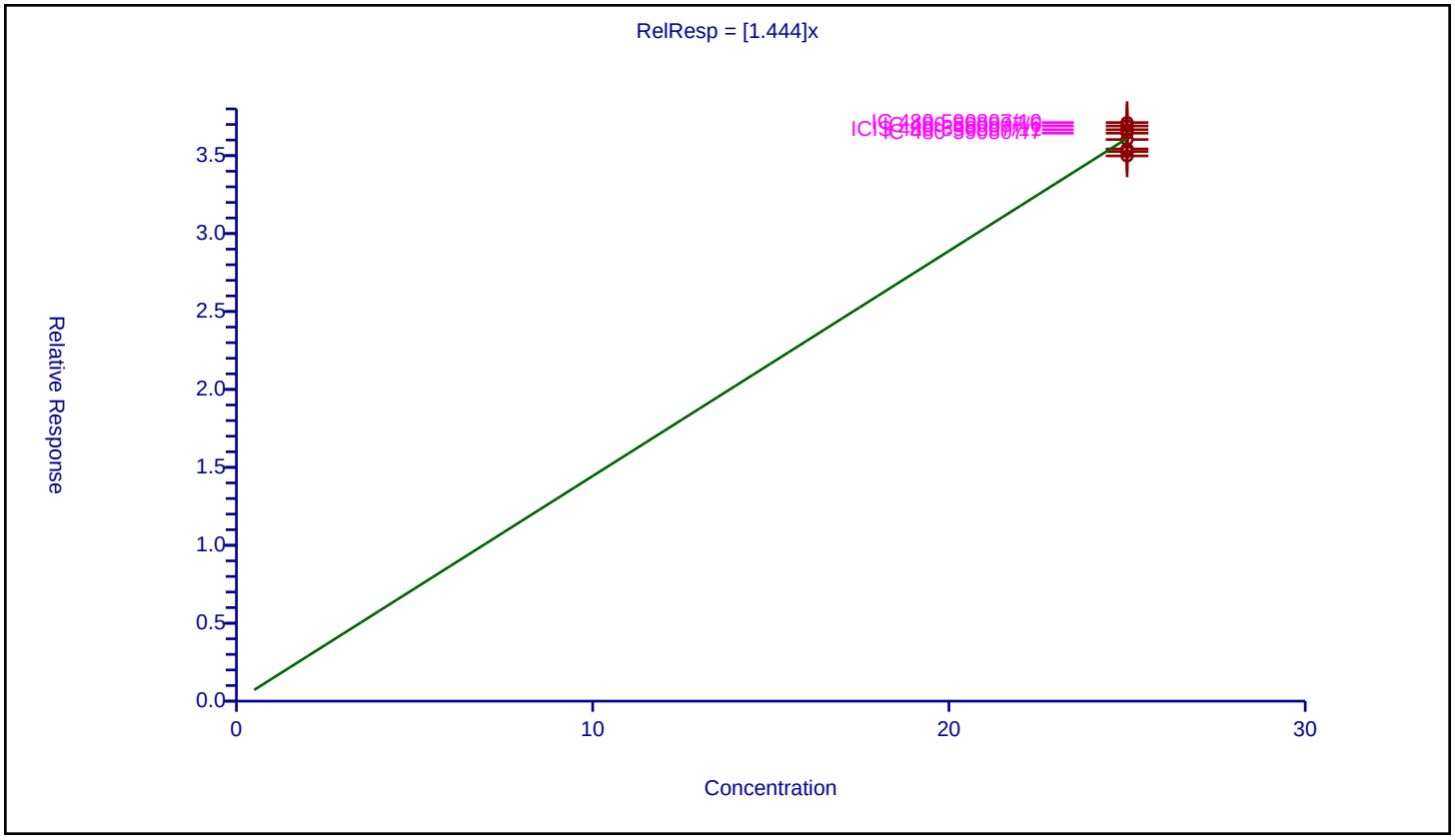
Curve Coefficients

Intercept:	0
Slope:	1.444

Error Coefficients

Standard Error:	222000
Relative Standard Error:	2.2
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	25.0	36.903855	25.0	137802.0	1.476154	Y
2	IC 480-590807/7	25.0	36.442285	25.0	133909.0	1.457691	Y
3	IC 480-590807/8	25.0	35.430336	25.0	145851.0	1.417213	Y
4	IC 480-590807/9	25.0	34.983361	25.0	148745.0	1.399334	Y
5	IC 480-590807/10	25.0	37.123936	25.0	141299.0	1.484957	Y
6	ICIS 480-590807/11	25.0	36.66505	25.0	144335.0	1.466602	Y
7	IC 480-590807/12	25.0	36.034444	25.0	146412.0	1.441378	Y
8	IC 480-590807/13	25.0	35.263675	25.0	150526.0	1.410547	Y



Calibration / Carbon tetrachloride

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

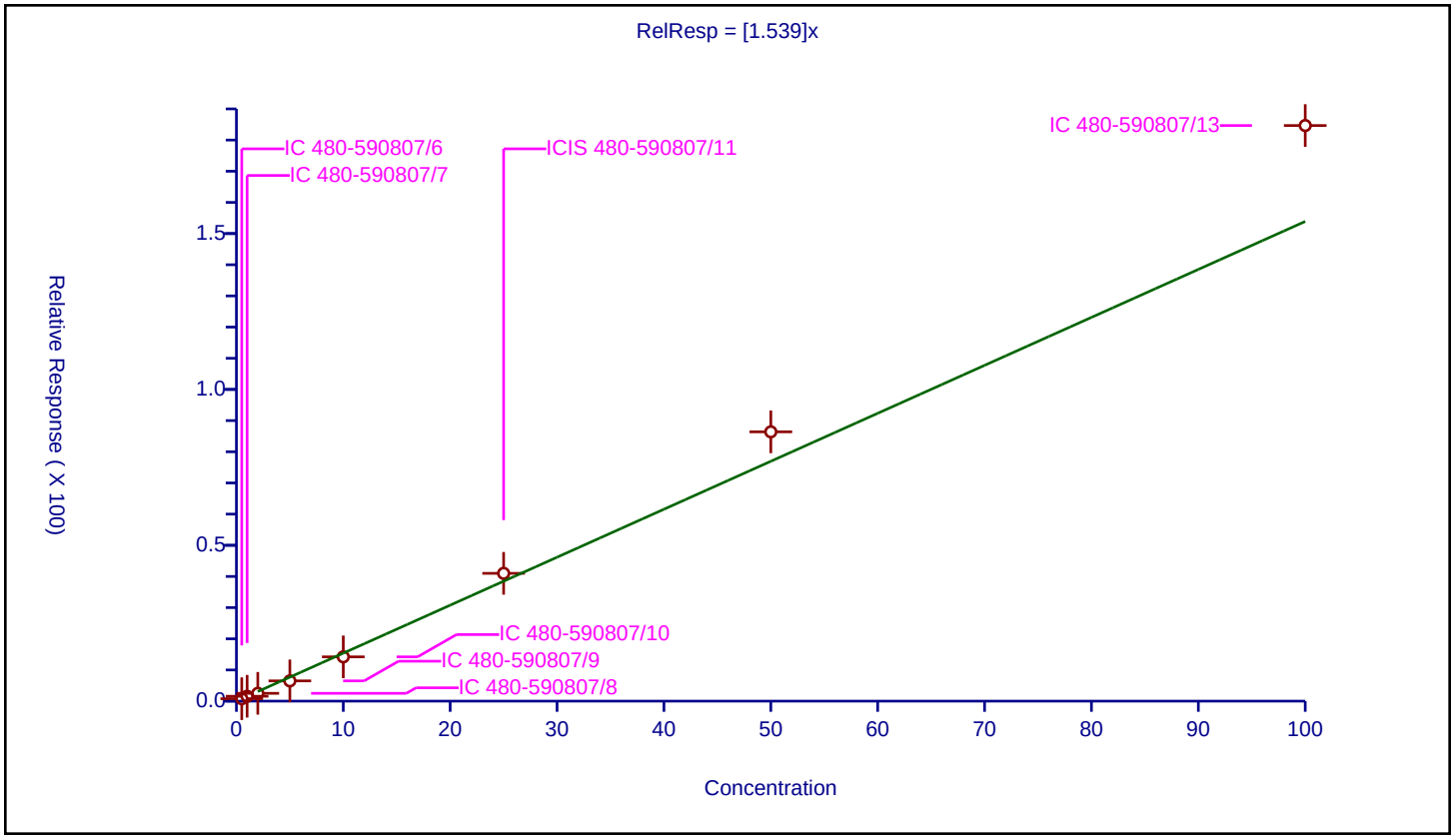
Curve Coefficients

Intercept:	0
Slope:	1.539

Error Coefficients

Standard Error:	471000
Relative Standard Error:	13.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.780105	25.0	137802.0	1.56021	Y
2	IC 480-590807/7	1.0	1.565615	25.0	133909.0	1.565615	Y
3	IC 480-590807/8	2.0	2.504097	25.0	145851.0	1.252048	Y
4	IC 480-590807/9	5.0	6.494336	25.0	148745.0	1.298867	Y
5	IC 480-590807/10	10.0	14.201268	25.0	141299.0	1.420127	Y
6	ICIS 480-590807/11	25.0	40.997679	25.0	144335.0	1.639907	Y
7	IC 480-590807/12	50.0	86.398997	25.0	146412.0	1.72798	Y
8	IC 480-590807/13	100.0	184.657634	25.0	150526.0	1.846576	Y



Calibration / 1,1-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

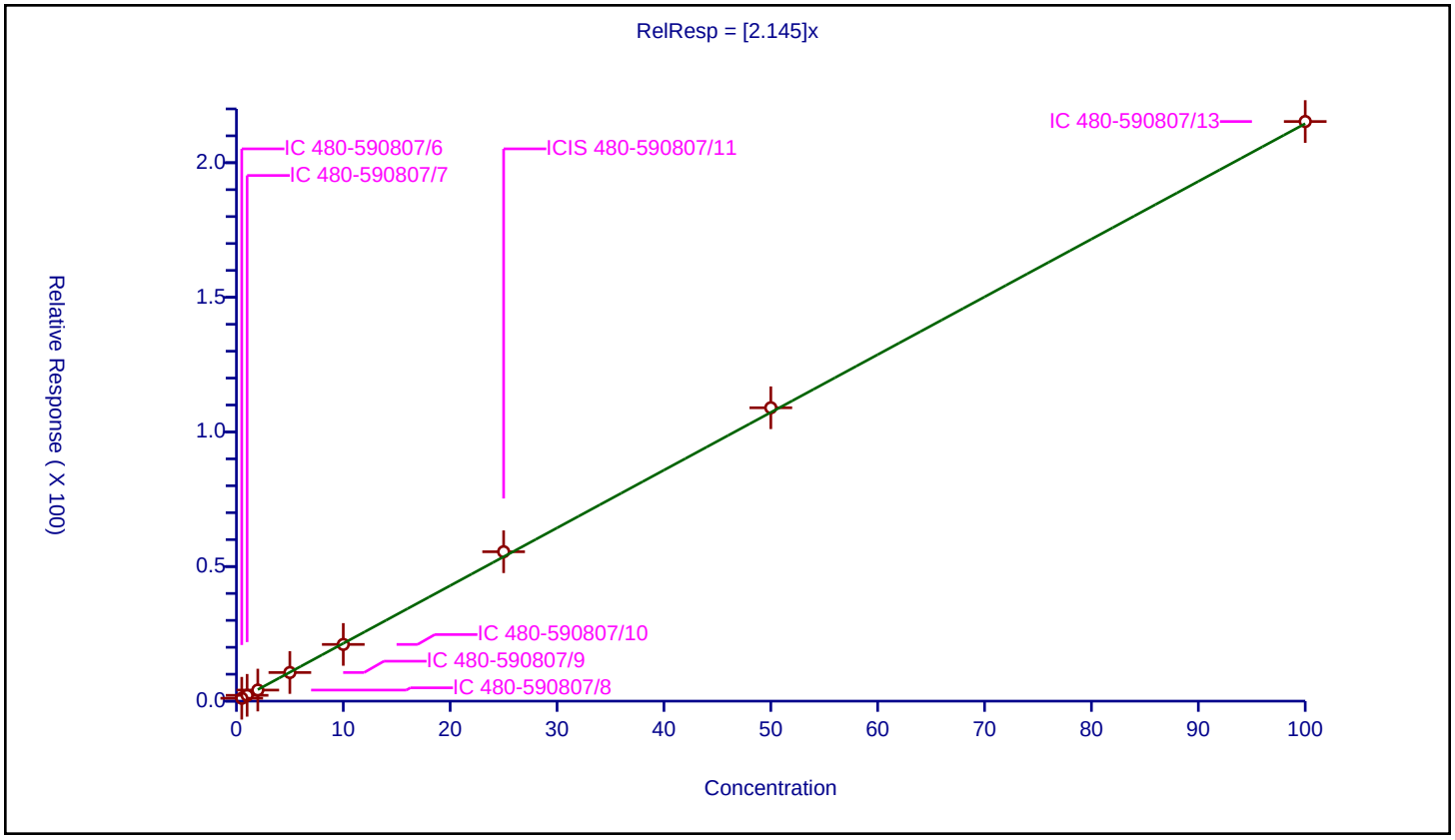
Curve Coefficients

Intercept:	0
Slope:	2.145

Error Coefficients

Standard Error:	562000
Relative Standard Error:	2.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.077815	25.0	137802.0	2.155629	Y
2	IC 480-590807/7	1.0	2.165463	25.0	133909.0	2.165463	Y
3	IC 480-590807/8	2.0	4.107617	25.0	145851.0	2.053808	Y
4	IC 480-590807/9	5.0	10.634643	25.0	148745.0	2.126929	Y
5	IC 480-590807/10	10.0	21.071097	25.0	141299.0	2.10711	Y
6	ICIS 480-590807/11	25.0	55.501784	25.0	144335.0	2.220071	Y
7	IC 480-590807/12	50.0	108.979114	25.0	146412.0	2.179582	Y
8	IC 480-590807/13	100.0	215.312139	25.0	150526.0	2.153121	Y



Calibration / 1,2-Dichloroethane-d4 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

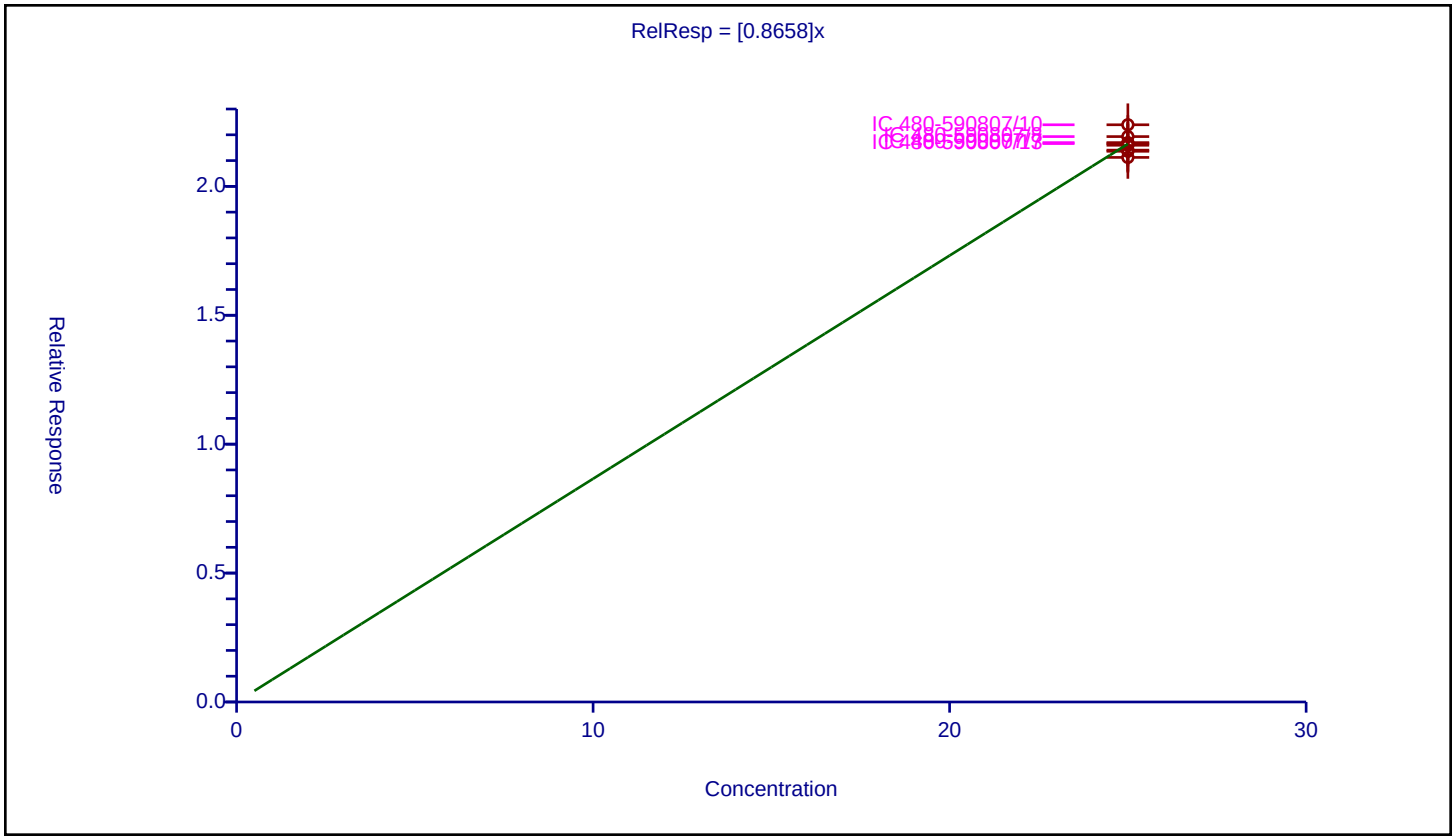
Curve Coefficients

Intercept:	0
Slope:	0.8658

Error Coefficients

Standard Error:	133000
Relative Standard Error:	1.8
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	25.0	21.405168	25.0	137802.0	0.856207	Y
2	IC 480-590807/7	25.0	21.696451	25.0	133909.0	0.867858	Y
3	IC 480-590807/8	25.0	21.930943	25.0	145851.0	0.877238	Y
4	IC 480-590807/9	25.0	21.360886	25.0	148745.0	0.854435	Y
5	IC 480-590807/10	25.0	22.38887	25.0	141299.0	0.895555	Y
6	ICIS 480-590807/11	25.0	21.593862	25.0	144335.0	0.863754	Y
7	IC 480-590807/12	25.0	21.123098	25.0	146412.0	0.844924	Y
8	IC 480-590807/13	25.0	21.659049	25.0	150526.0	0.866362	Y



Calibration / Benzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

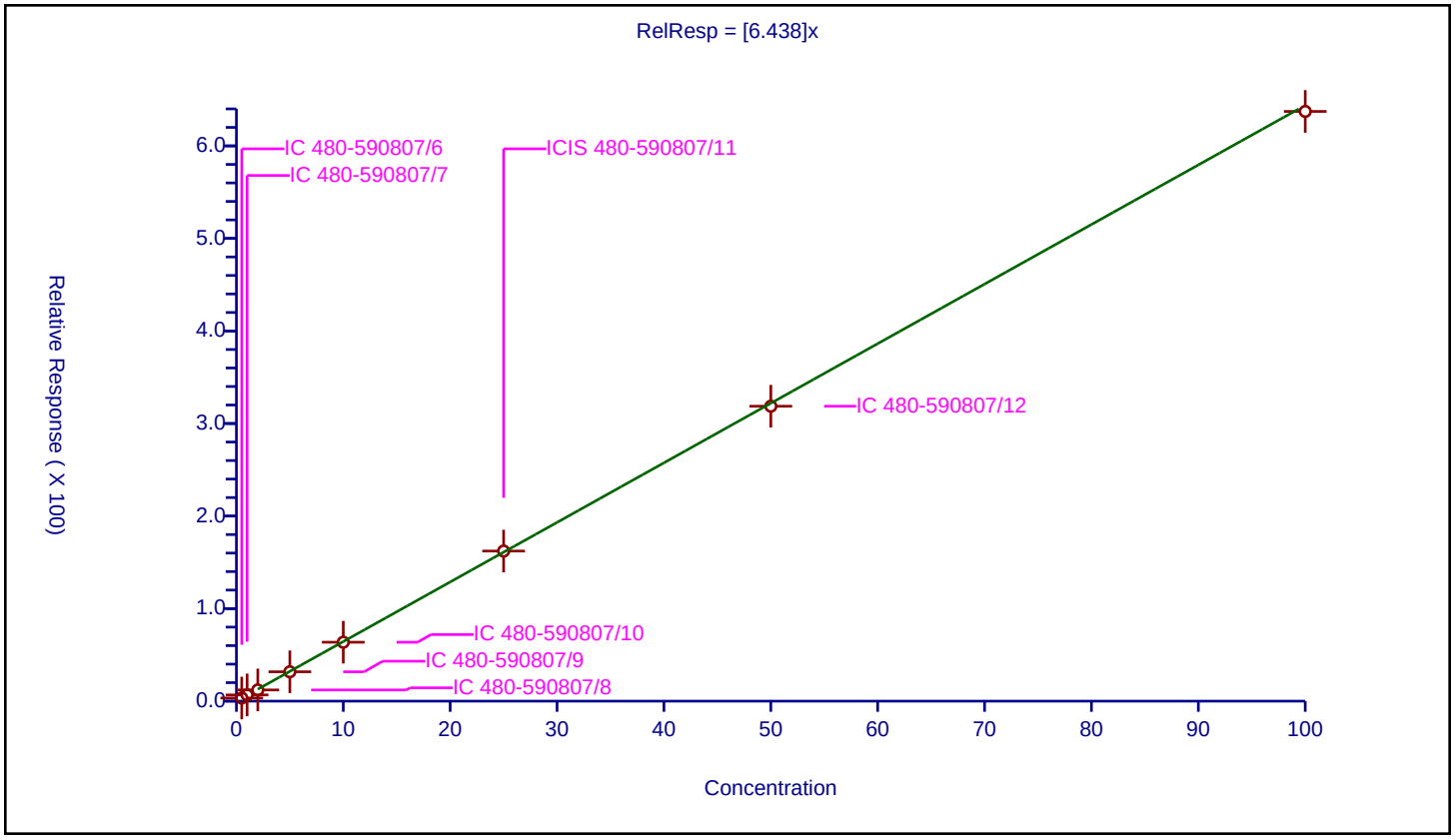
Curve Coefficients

Intercept:	0
Slope:	6.438

Error Coefficients

Standard Error:	1660000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	3.394726	25.0	137802.0	6.789452	Y
2	IC 480-590807/7	1.0	6.715568	25.0	133909.0	6.715568	Y
3	IC 480-590807/8	2.0	12.106533	25.0	145851.0	6.053267	Y
4	IC 480-590807/9	5.0	31.733168	25.0	148745.0	6.346634	Y
5	IC 480-590807/10	10.0	63.669948	25.0	141299.0	6.366995	Y
6	ICIS 480-590807/11	25.0	162.212215	25.0	144335.0	6.488489	Y
7	IC 480-590807/12	50.0	318.704239	25.0	146412.0	6.374085	Y
8	IC 480-590807/13	100.0	637.234763	25.0	150526.0	6.372348	Y



Calibration / Isobutyl alcohol

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

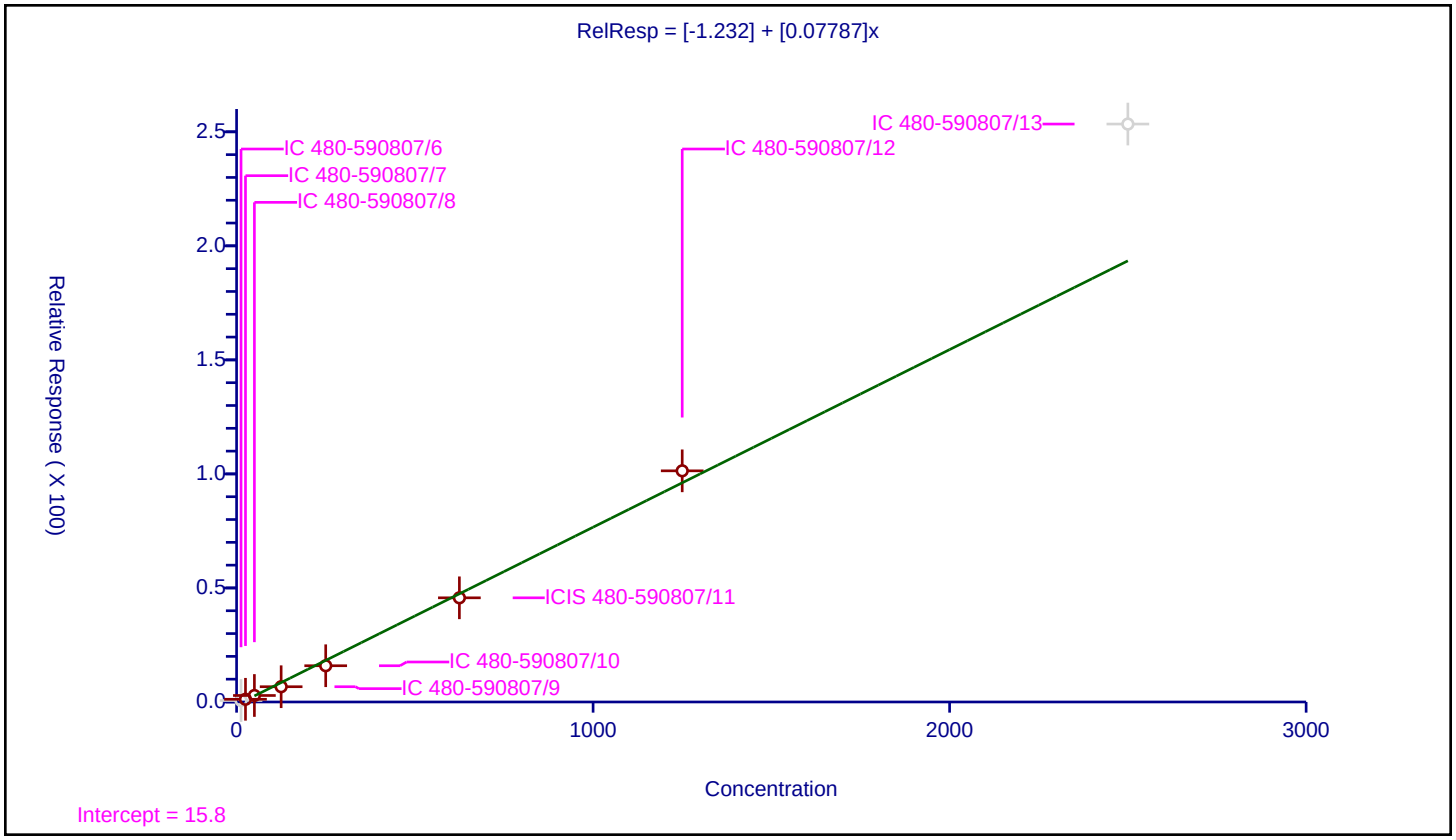
Curve Coefficients

Intercept:	-1.232
Slope:	0.07787

Error Coefficients

Standard Error:	329000
Relative Standard Error:	16.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	12.5	0.639323	25.0	137802.0	0.051146	N
2	IC 480-590807/7	25.0	1.181213	25.0	133909.0	0.047249	Y
3	IC 480-590807/8	50.0	2.85034	25.0	145851.0	0.057007	Y
4	IC 480-590807/9	125.0	6.695519	25.0	148745.0	0.053564	Y
5	IC 480-590807/10	250.0	15.898025	25.0	141299.0	0.063592	Y
6	ICIS 480-590807/11	625.0	45.67326	25.0	144335.0	0.073077	Y
7	IC 480-590807/12	1250.0	101.355934	25.0	146412.0	0.081085	Y
8	IC 480-590807/13	2500.0	253.399745	25.0	150526.0	0.10136	N



Calibration / 1,2-Dichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

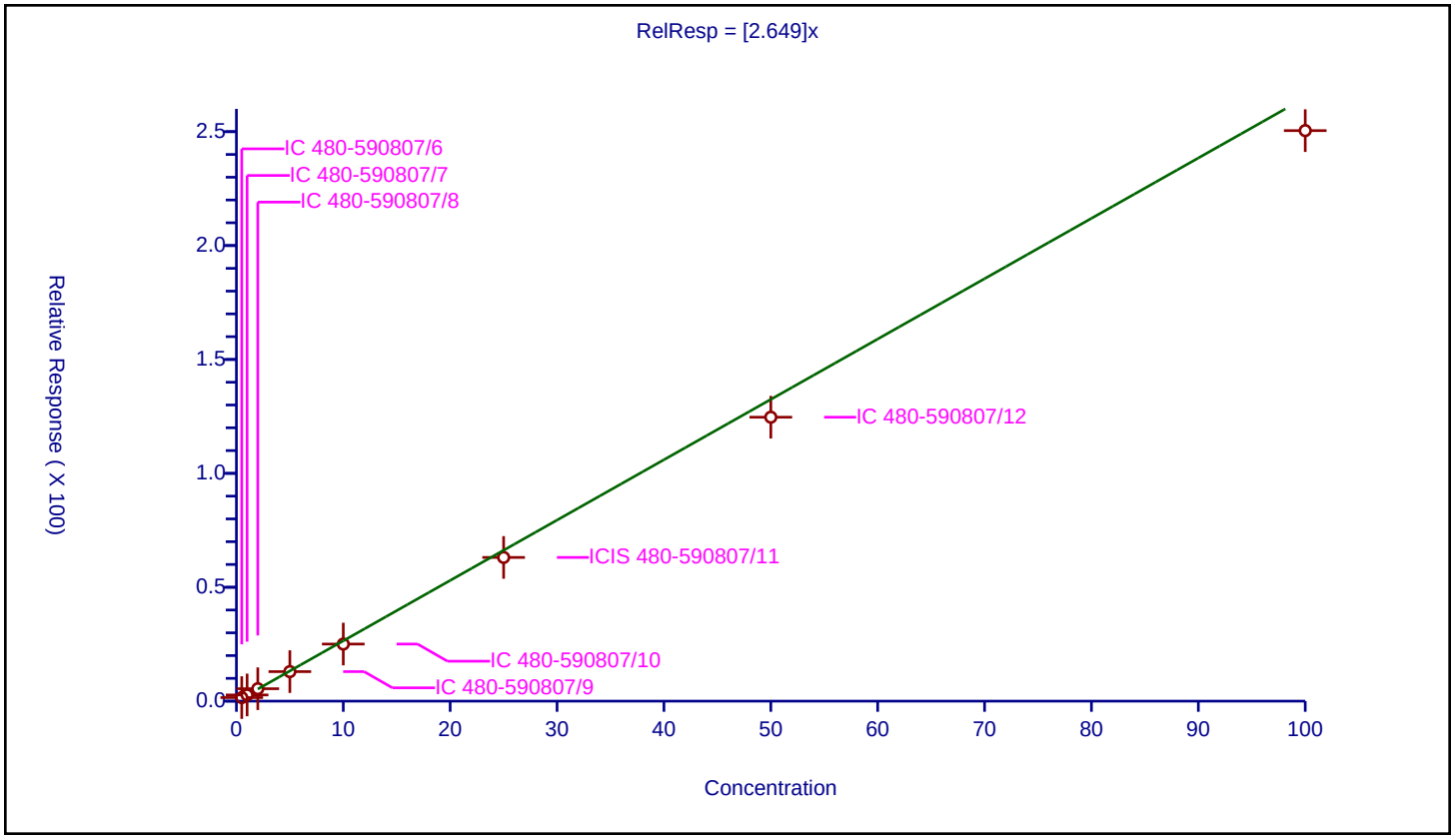
Curve Coefficients

Intercept:	0
Slope:	2.649

Error Coefficients

Standard Error:	651000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.562568	25.0	137802.0	3.125136	Y
2	IC 480-590807/7	1.0	2.720878	25.0	133909.0	2.720878	Y
3	IC 480-590807/8	2.0	5.456768	25.0	145851.0	2.728384	Y
4	IC 480-590807/9	5.0	12.964469	25.0	148745.0	2.592894	Y
5	IC 480-590807/10	10.0	25.061748	25.0	141299.0	2.506175	Y
6	ICIS 480-590807/11	25.0	63.082586	25.0	144335.0	2.523303	Y
7	IC 480-590807/12	50.0	124.651156	25.0	146412.0	2.493023	Y
8	IC 480-590807/13	100.0	250.463541	25.0	150526.0	2.504635	Y



Calibration / n-Heptane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

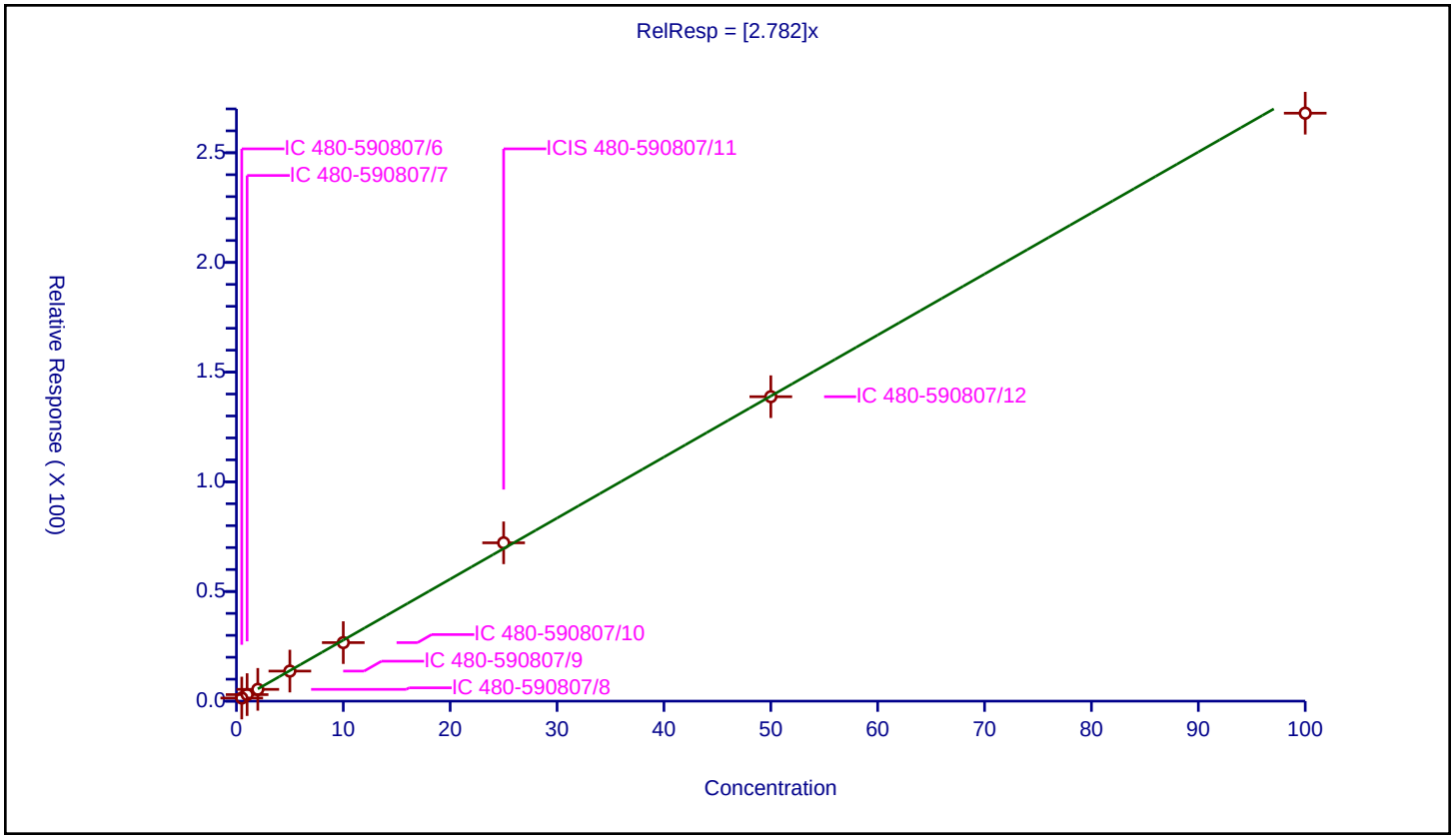
Curve Coefficients

Intercept:	0
Slope:	2.782

Error Coefficients

Standard Error:	704000
Relative Standard Error:	4.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.415799	25.0	137802.0	2.831599	Y
2	IC 480-590807/7	1.0	2.981689	25.0	133909.0	2.981689	Y
3	IC 480-590807/8	2.0	5.378263	25.0	145851.0	2.689131	Y
4	IC 480-590807/9	5.0	13.696427	25.0	148745.0	2.739285	Y
5	IC 480-590807/10	10.0	26.686495	25.0	141299.0	2.668649	Y
6	ICIS 480-590807/11	25.0	72.176361	25.0	144335.0	2.887054	Y
7	IC 480-590807/12	50.0	138.788829	25.0	146412.0	2.775777	Y
8	IC 480-590807/13	100.0	268.04273	25.0	150526.0	2.680427	Y



Calibration / Trichloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

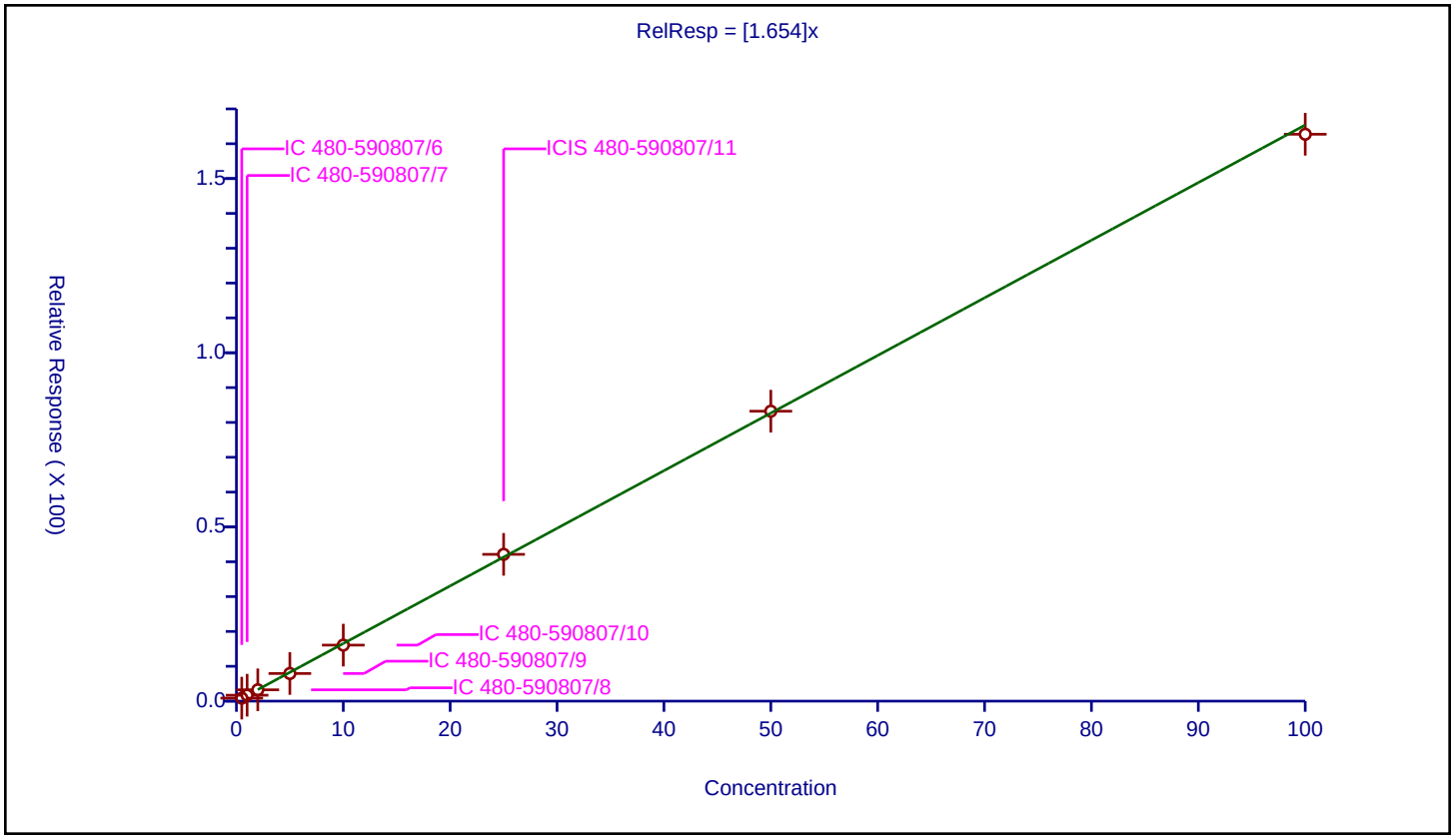
Curve Coefficients

Intercept:	0
Slope:	1.654

Error Coefficients

Standard Error:	425000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.864102	25.0	137802.0	1.728204	Y
2	IC 480-590807/7	1.0	1.704516	25.0	133909.0	1.704516	Y
3	IC 480-590807/8	2.0	3.249378	25.0	145851.0	1.624689	Y
4	IC 480-590807/9	5.0	7.935393	25.0	148745.0	1.587079	Y
5	IC 480-590807/10	10.0	16.082209	25.0	141299.0	1.608221	Y
6	ICIS 480-590807/11	25.0	42.137042	25.0	144335.0	1.685482	Y
7	IC 480-590807/12	50.0	83.226102	25.0	146412.0	1.664522	Y
8	IC 480-590807/13	100.0	162.724048	25.0	150526.0	1.62724	Y



Calibration / Methylcyclohexane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

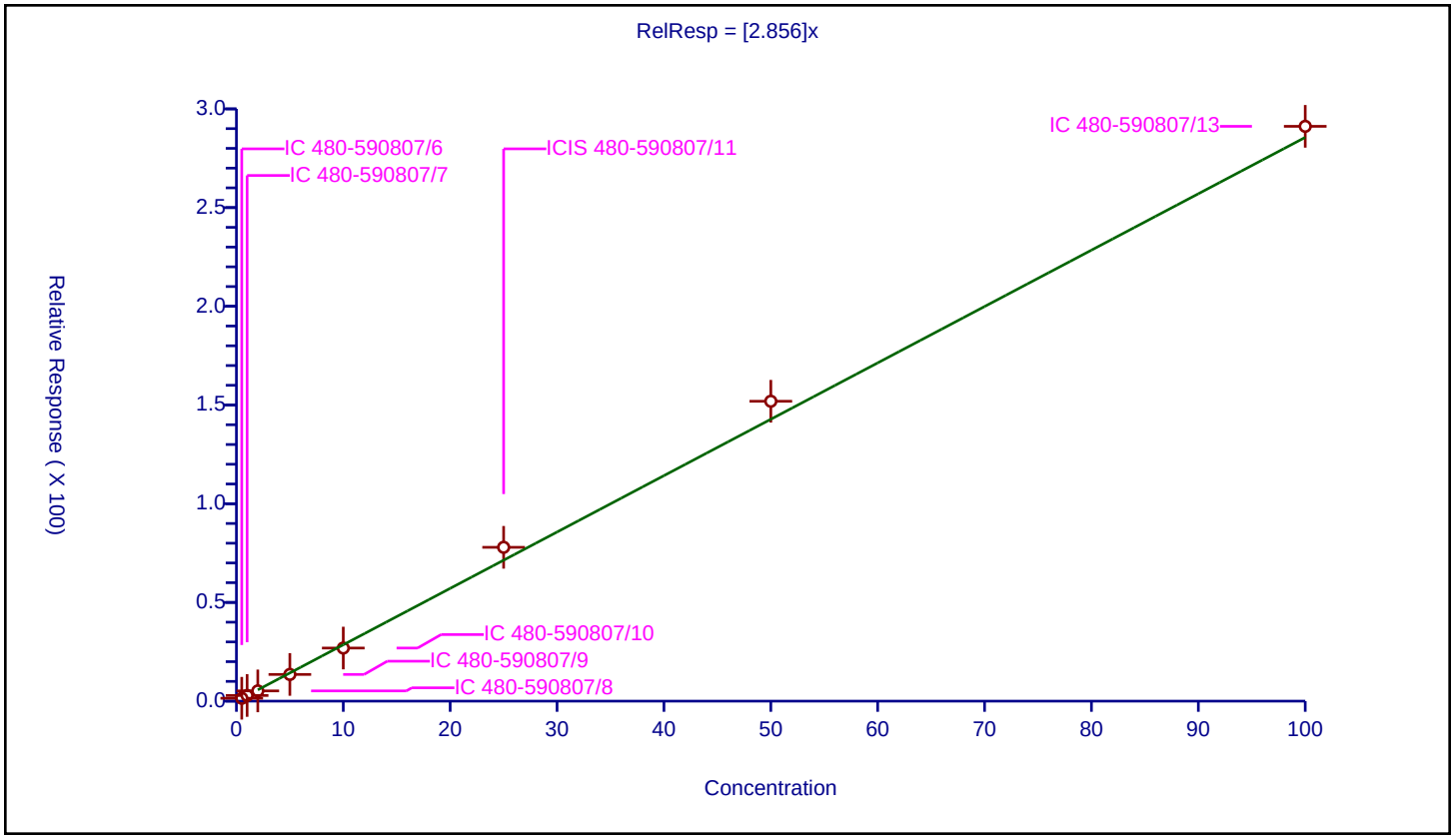
Curve Coefficients

Intercept:	0
Slope:	2.856

Error Coefficients

Standard Error:	765000
Relative Standard Error:	6.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.461517	25.0	137802.0	2.923034	Y
2	IC 480-590807/7	1.0	2.869486	25.0	133909.0	2.869486	Y
3	IC 480-590807/8	2.0	5.183372	25.0	145851.0	2.591686	Y
4	IC 480-590807/9	5.0	13.524152	25.0	148745.0	2.70483	Y
5	IC 480-590807/10	10.0	26.894918	25.0	141299.0	2.689492	Y
6	ICIS 480-590807/11	25.0	77.91925	25.0	144335.0	3.11677	Y
7	IC 480-590807/12	50.0	151.903532	25.0	146412.0	3.038071	Y
8	IC 480-590807/13	100.0	291.157508	25.0	150526.0	2.911575	Y



Calibration / 1,2-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

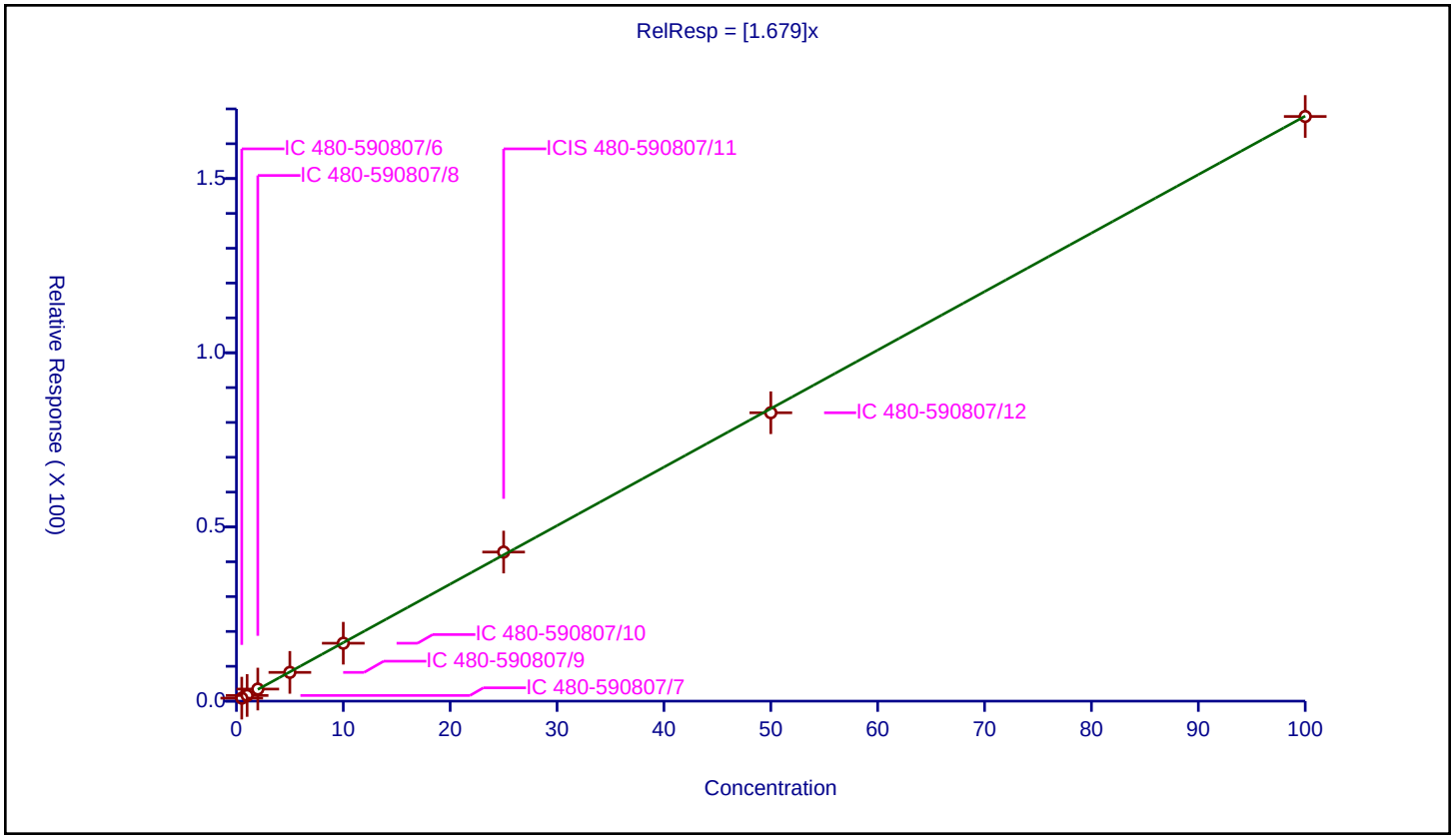
Curve Coefficients

Intercept:	0
Slope:	1.679

Error Coefficients

Standard Error:	436000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.857208	25.0	137802.0	1.714416	Y
2	IC 480-590807/7	1.0	1.628158	25.0	133909.0	1.628158	Y
3	IC 480-590807/8	2.0	3.466037	25.0	145851.0	1.733019	Y
4	IC 480-590807/9	5.0	8.254899	25.0	148745.0	1.65098	Y
5	IC 480-590807/10	10.0	16.623968	25.0	141299.0	1.662397	Y
6	ICIS 480-590807/11	25.0	42.793501	25.0	144335.0	1.71174	Y
7	IC 480-590807/12	50.0	82.785393	25.0	146412.0	1.655708	Y
8	IC 480-590807/13	100.0	167.823831	25.0	150526.0	1.678238	Y



Calibration / Dibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

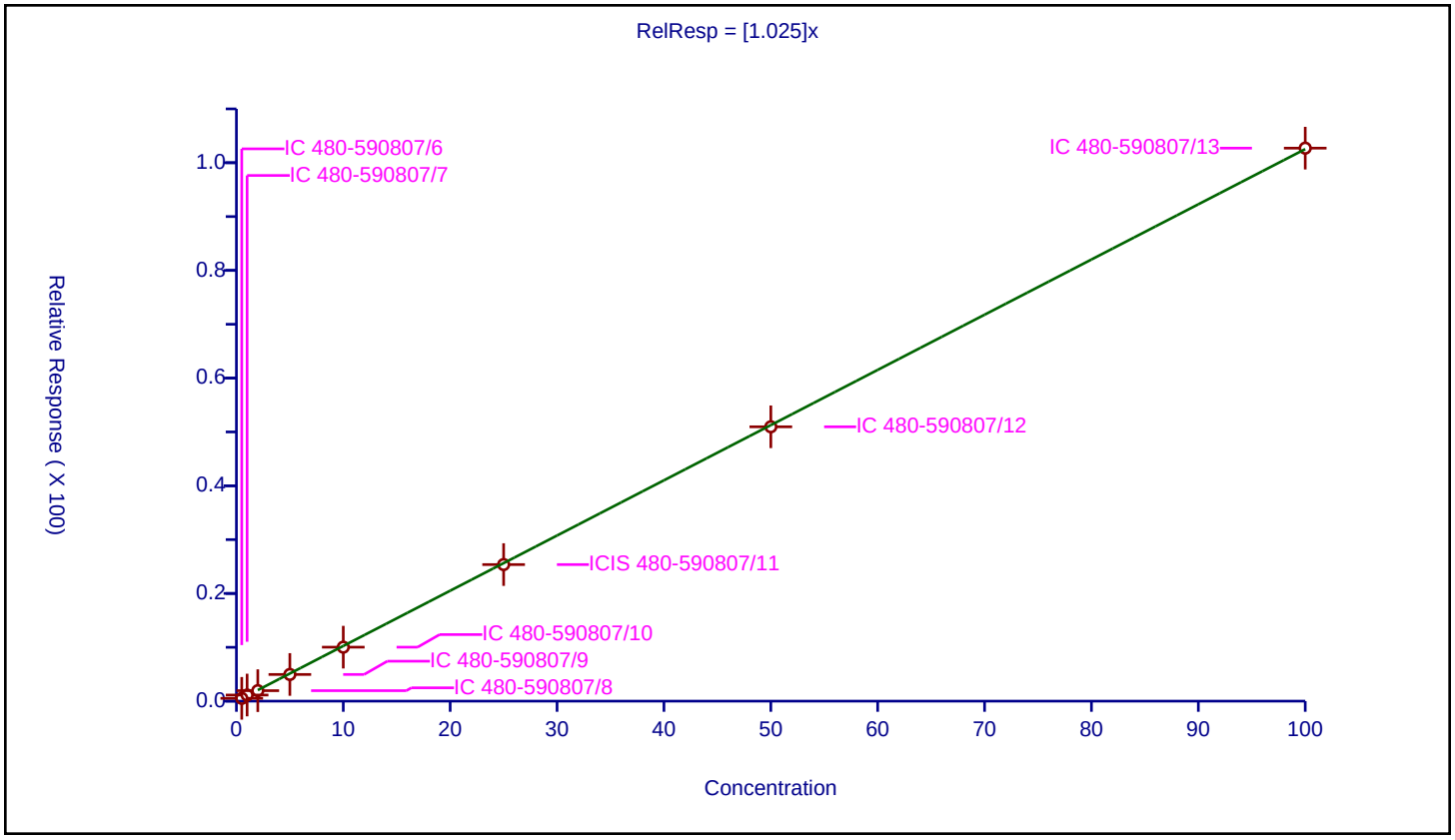
Curve Coefficients

Intercept:	0
Slope:	1.025

Error Coefficients

Standard Error:	266000
Relative Standard Error:	4.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.520493	25.0	137802.0	1.040986	Y
2	IC 480-590807/7	1.0	1.134539	25.0	133909.0	1.134539	Y
3	IC 480-590807/8	2.0	1.945479	25.0	145851.0	0.972739	Y
4	IC 480-590807/9	5.0	4.956637	25.0	148745.0	0.991327	Y
5	IC 480-590807/10	10.0	10.022364	25.0	141299.0	1.002236	Y
6	ICIS 480-590807/11	25.0	25.362871	25.0	144335.0	1.014515	Y
7	IC 480-590807/12	50.0	50.956206	25.0	146412.0	1.019124	Y
8	IC 480-590807/13	100.0	102.709	25.0	150526.0	1.02709	Y



Calibration / 1,4-Dioxane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

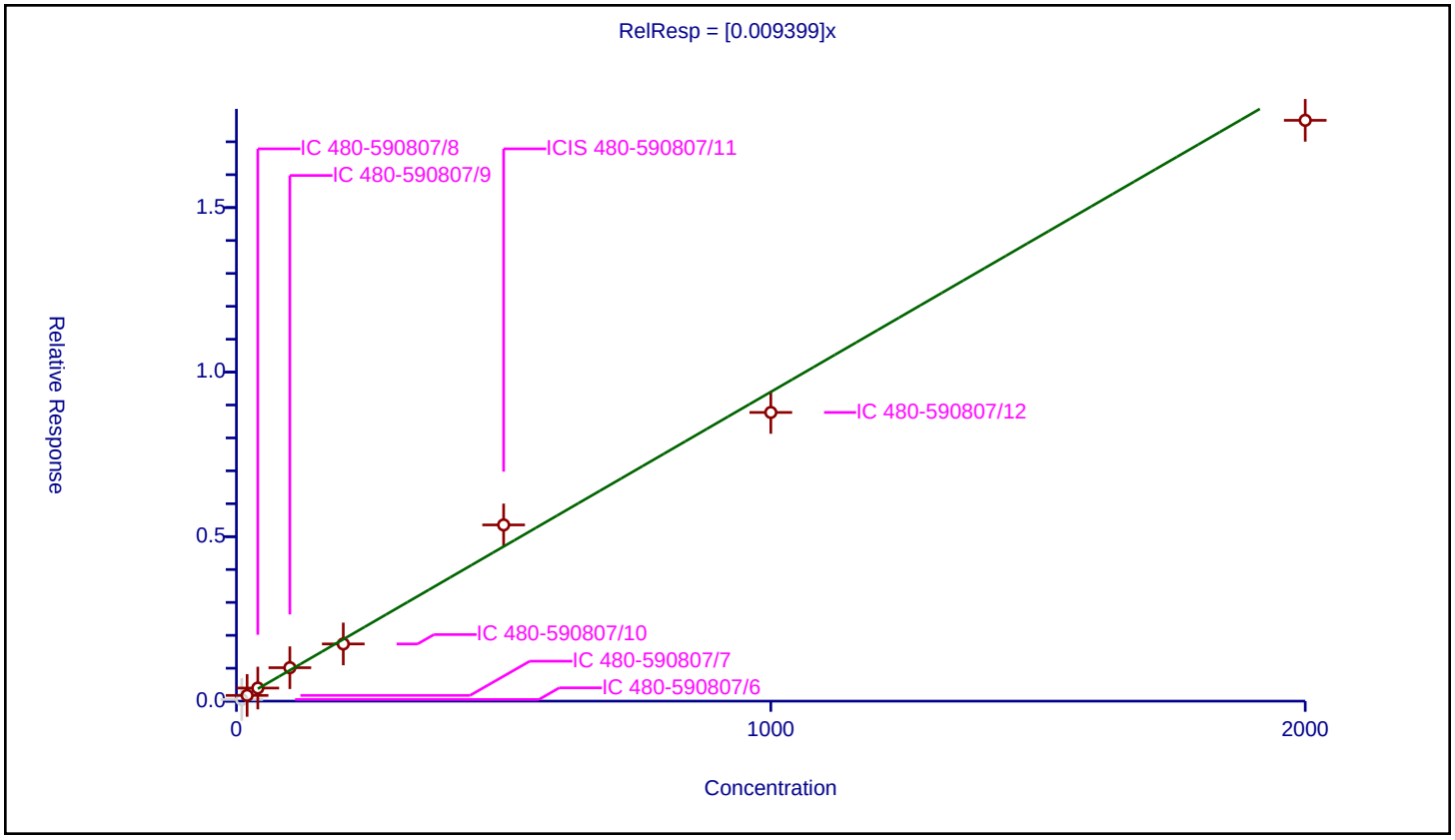
Curve Coefficients

Intercept:	0
Slope:	0.009399

Error Coefficients

Standard Error:	104000
Relative Standard Error:	9.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	10.0	0.050559	25.0	268993.0	0.005056	N
2	IC 480-590807/7	20.0	0.173434	25.0	250239.0	0.008672	Y
3	IC 480-590807/8	40.0	0.398185	25.0	299170.0	0.009955	Y
4	IC 480-590807/9	100.0	1.016064	25.0	297816.0	0.010161	Y
5	IC 480-590807/10	200.0	1.738491	25.0	287994.0	0.008692	Y
6	ICIS 480-590807/11	500.0	5.356012	25.0	287378.0	0.010712	Y
7	IC 480-590807/12	1000.0	8.774656	25.0	298006.0	0.008775	Y
8	IC 480-590807/13	2000.0	17.652666	25.0	314199.0	0.008826	Y



Calibration / Dichlorobromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

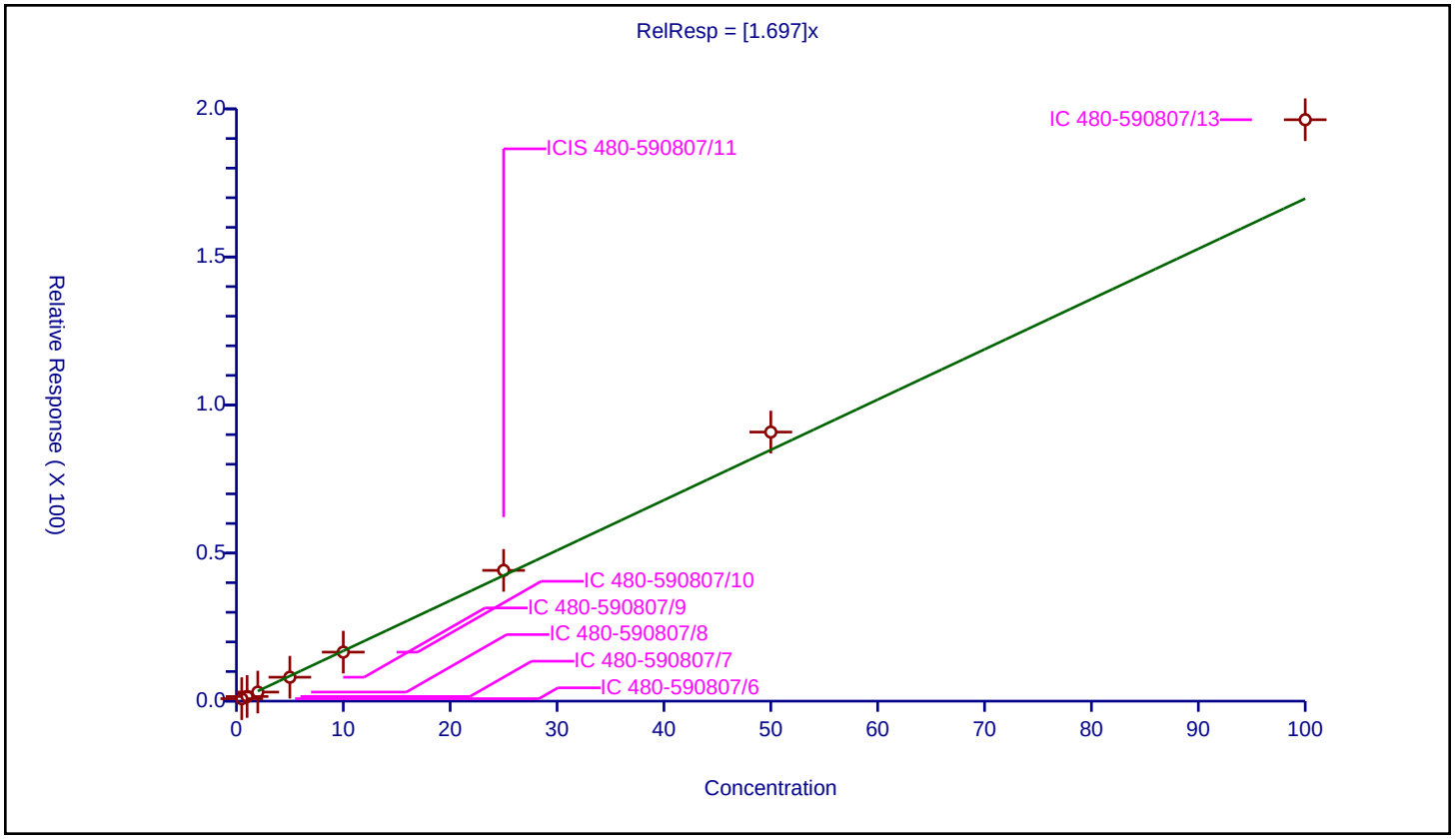
Curve Coefficients

Intercept:	0
Slope:	1.697

Error Coefficients

Standard Error:	501000
Relative Standard Error:	8.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.831084	25.0	137802.0	1.662167	Y
2	IC 480-590807/7	1.0	1.566736	25.0	133909.0	1.566736	Y
3	IC 480-590807/8	2.0	3.059972	25.0	145851.0	1.529986	Y
4	IC 480-590807/9	5.0	8.078591	25.0	148745.0	1.615718	Y
5	IC 480-590807/10	10.0	16.552665	25.0	141299.0	1.655266	Y
6	ICIS 480-590807/11	25.0	44.155783	25.0	144335.0	1.766231	Y
7	IC 480-590807/12	50.0	90.865674	25.0	146412.0	1.817313	Y
8	IC 480-590807/13	100.0	196.337676	25.0	150526.0	1.963377	Y



Calibration / 2-Chloroethyl vinyl ether

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

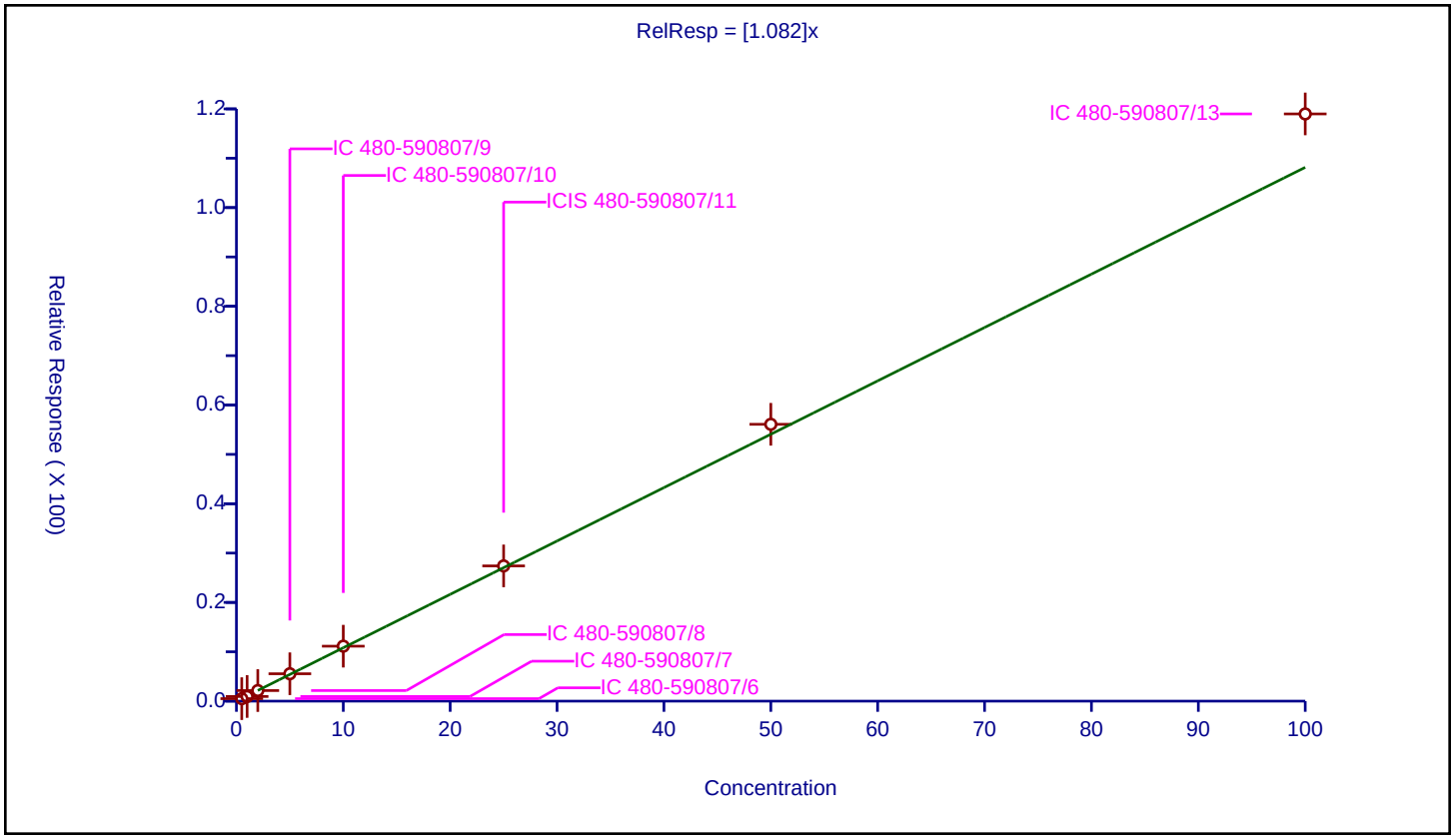
Curve Coefficients

Intercept:	0
Slope:	1.082

Error Coefficients

Standard Error:	305000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.503984	25.0	137802.0	1.007968	Y
2	IC 480-590807/7	1.0	0.940377	25.0	133909.0	0.940377	Y
3	IC 480-590807/8	2.0	2.144997	25.0	145851.0	1.072499	Y
4	IC 480-590807/9	5.0	5.549766	25.0	148745.0	1.109953	Y
5	IC 480-590807/10	10.0	11.136845	25.0	141299.0	1.113684	Y
6	ICIS 480-590807/11	25.0	27.399453	25.0	144335.0	1.095978	Y
7	IC 480-590807/12	50.0	56.095812	25.0	146412.0	1.121916	Y
8	IC 480-590807/13	100.0	118.981605	25.0	150526.0	1.189816	Y



Calibration / cis-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

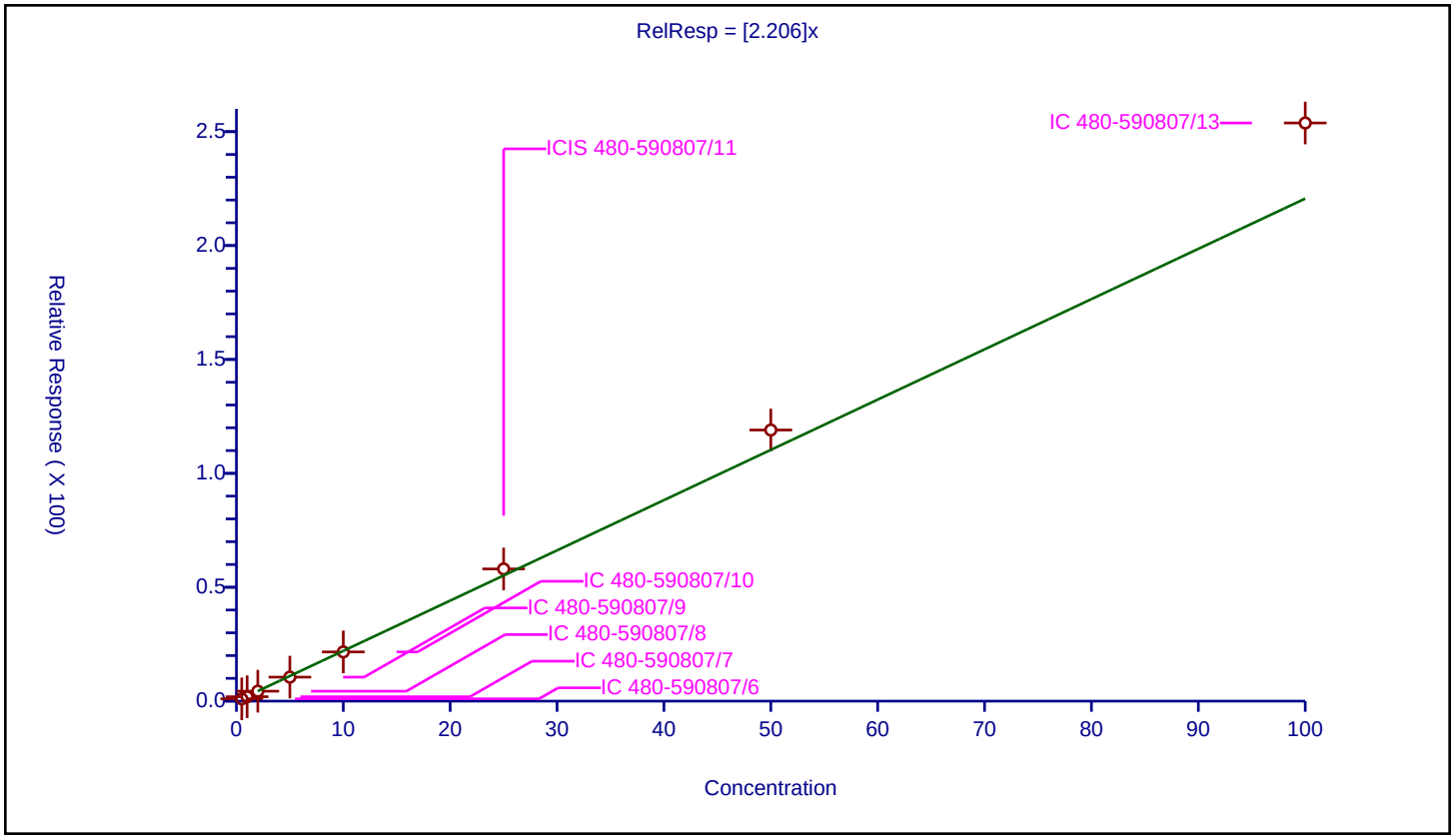
Curve Coefficients

Intercept:	0
Slope:	2.206

Error Coefficients

Standard Error:	649000
Relative Standard Error:	8.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.010508	25.0	137802.0	2.021016	Y
2	IC 480-590807/7	1.0	1.93807	25.0	133909.0	1.93807	Y
3	IC 480-590807/8	2.0	4.3613	25.0	145851.0	2.18065	Y
4	IC 480-590807/9	5.0	10.545565	25.0	148745.0	2.109113	Y
5	IC 480-590807/10	10.0	21.606841	25.0	141299.0	2.160684	Y
6	ICIS 480-590807/11	25.0	58.034953	25.0	144335.0	2.321398	Y
7	IC 480-590807/12	50.0	119.021323	25.0	146412.0	2.380426	Y
8	IC 480-590807/13	100.0	253.809641	25.0	150526.0	2.538096	Y



Calibration / 4-Methyl-2-pentanone (MIBK)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

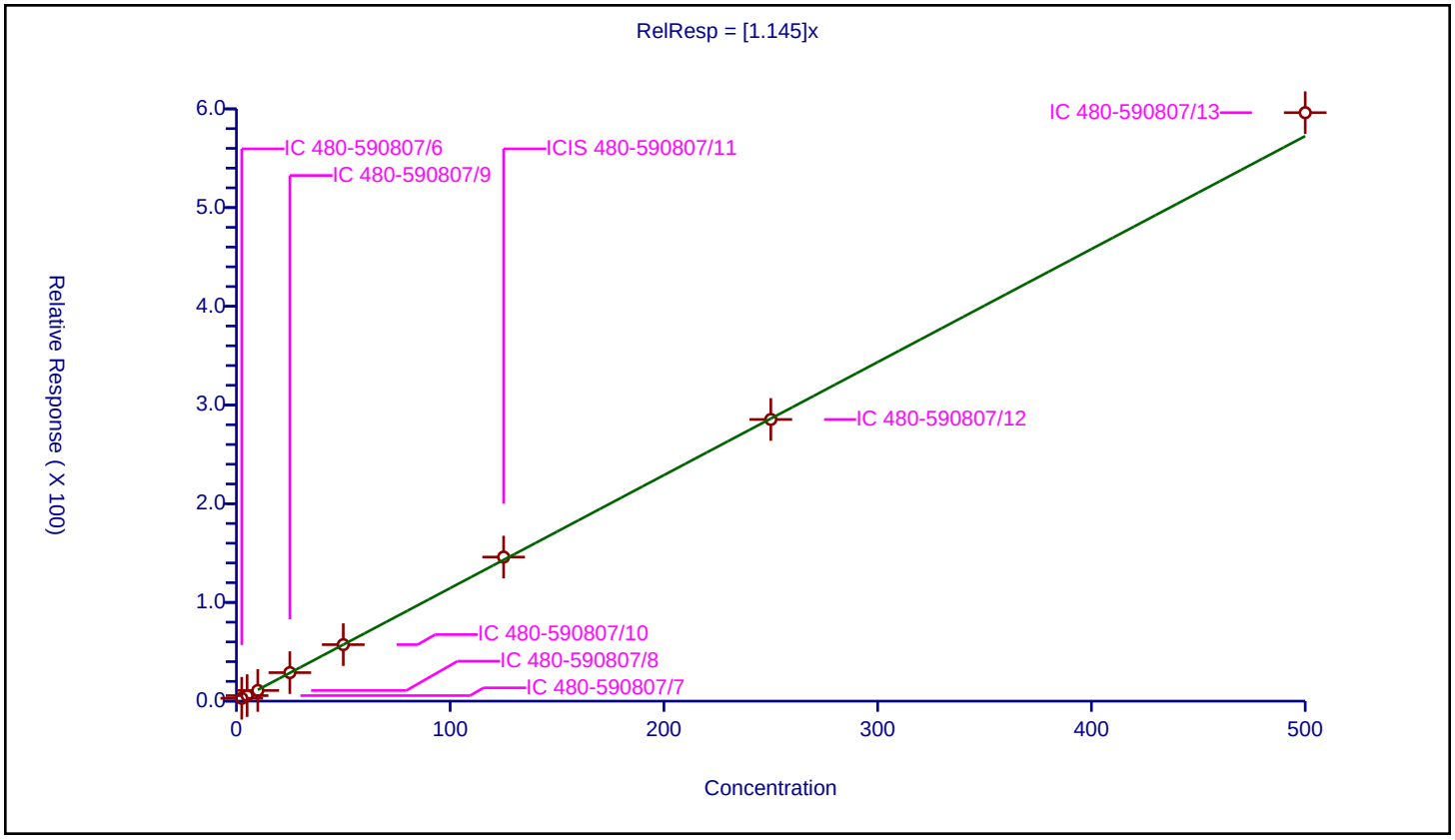
Curve Coefficients

Intercept:	0
Slope:	1.145

Error Coefficients

Standard Error:	3190000
Relative Standard Error:	2.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	2.5	2.890596	25.0	268993.0	1.156238	Y
2	IC 480-590807/7	5.0	5.603243	25.0	250239.0	1.120649	Y
3	IC 480-590807/8	10.0	10.812331	25.0	299170.0	1.081233	Y
4	IC 480-590807/9	25.0	28.878066	25.0	297816.0	1.155123	Y
5	IC 480-590807/10	50.0	57.243814	25.0	287994.0	1.144876	Y
6	ICIS 480-590807/11	125.0	145.963331	25.0	287378.0	1.167707	Y
7	IC 480-590807/12	250.0	285.353734	25.0	298006.0	1.141415	Y
8	IC 480-590807/13	500.0	596.154746	25.0	314199.0	1.192309	Y



Calibration / Toluene-d8 (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

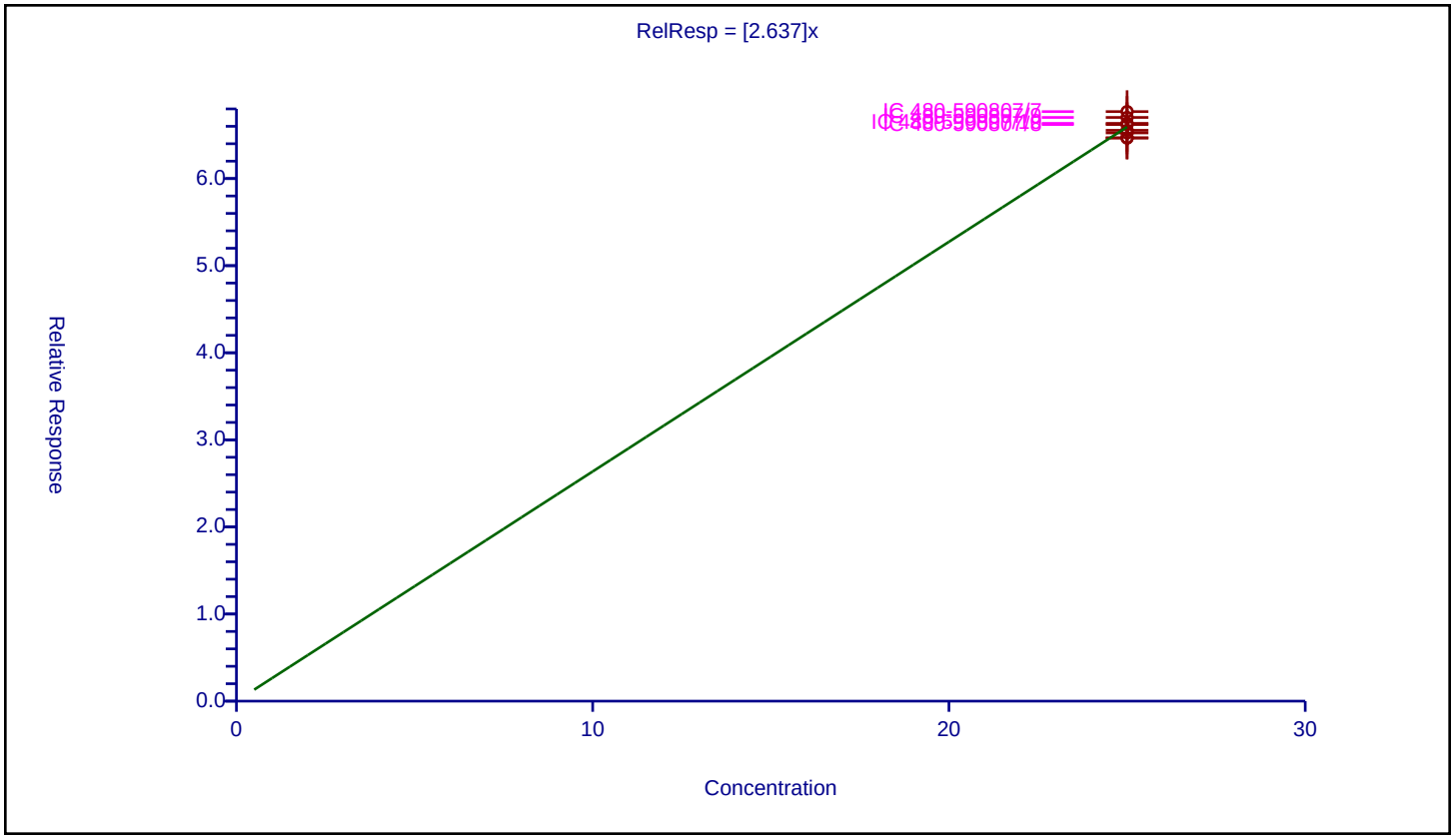
Curve Coefficients

Intercept:	0
Slope:	2.637

Error Coefficients

Standard Error:	813000
Relative Standard Error:	1.7
Correlation Coefficient:	NA
Coefficient of Determination (Adjusted):	0.000000000000000111

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	25.0	65.242125	25.0	268993.0	2.609685	Y
2	IC 480-590807/7	25.0	67.687491	25.0	250239.0	2.7075	Y
3	IC 480-590807/8	25.0	66.202744	25.0	299170.0	2.64811	Y
4	IC 480-590807/9	25.0	67.018478	25.0	297816.0	2.680739	Y
5	IC 480-590807/10	25.0	66.334976	25.0	287994.0	2.653399	Y
6	ICIS 480-590807/11	25.0	65.542421	25.0	287378.0	2.621697	Y
7	IC 480-590807/12	25.0	64.652054	25.0	298006.0	2.586082	Y
8	IC 480-590807/13	25.0	64.687189	25.0	314199.0	2.587488	Y



Calibration / Toluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

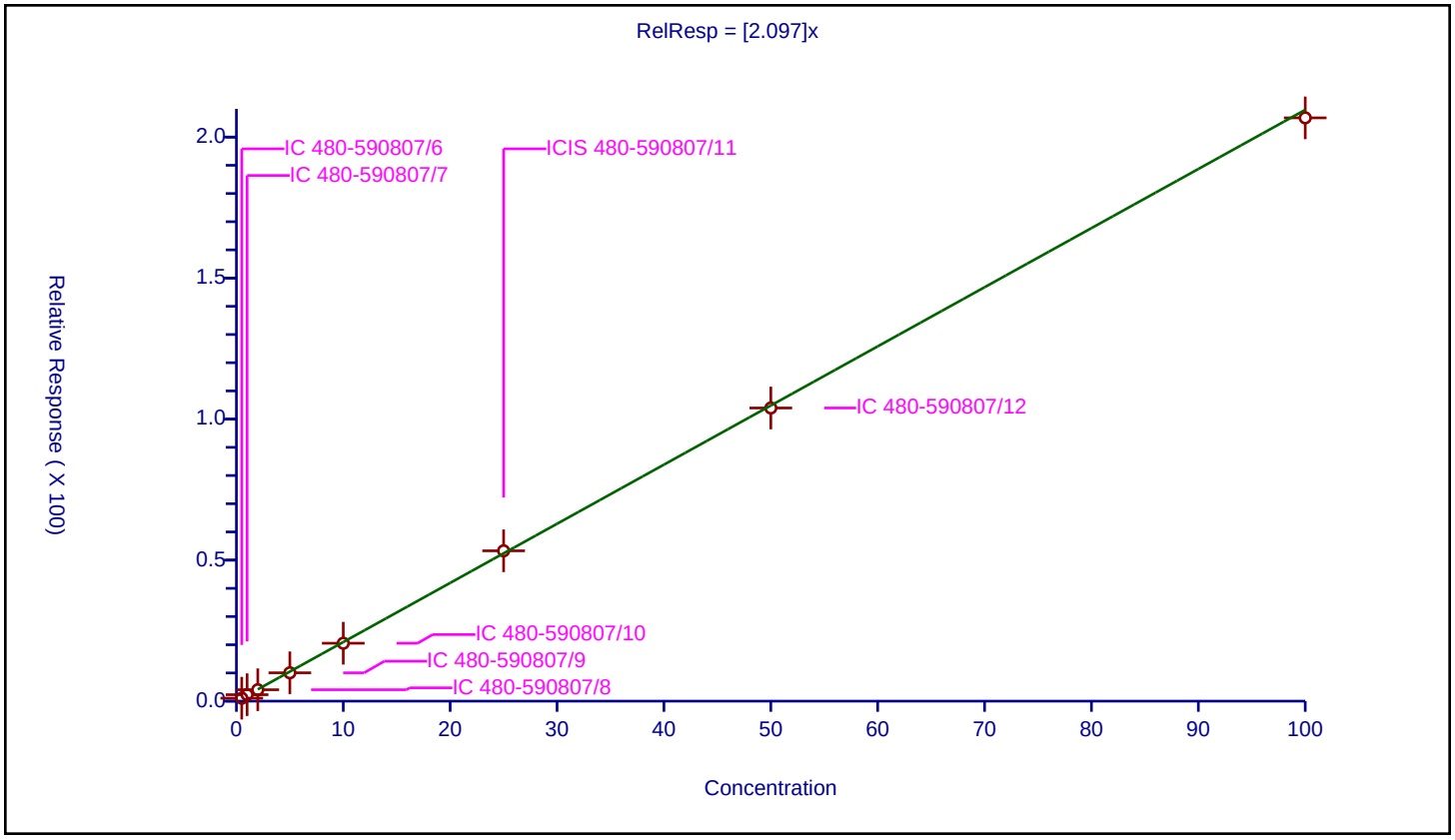
Curve Coefficients

Intercept:	0
Slope:	2.097

Error Coefficients

Standard Error:	1120000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.057091	25.0	268993.0	2.114181	Y
2	IC 480-590807/7	1.0	2.292408	25.0	250239.0	2.292408	Y
3	IC 480-590807/8	2.0	4.043855	25.0	299170.0	2.021927	Y
4	IC 480-590807/9	5.0	10.054111	25.0	297816.0	2.010822	Y
5	IC 480-590807/10	10.0	20.53541	25.0	287994.0	2.053541	Y
6	ICIS 480-590807/11	25.0	53.305577	25.0	287378.0	2.132223	Y
7	IC 480-590807/12	50.0	103.943964	25.0	298006.0	2.078879	Y
8	IC 480-590807/13	100.0	206.813357	25.0	314199.0	2.068134	Y



Calibration / trans-1,3-Dichloropropene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

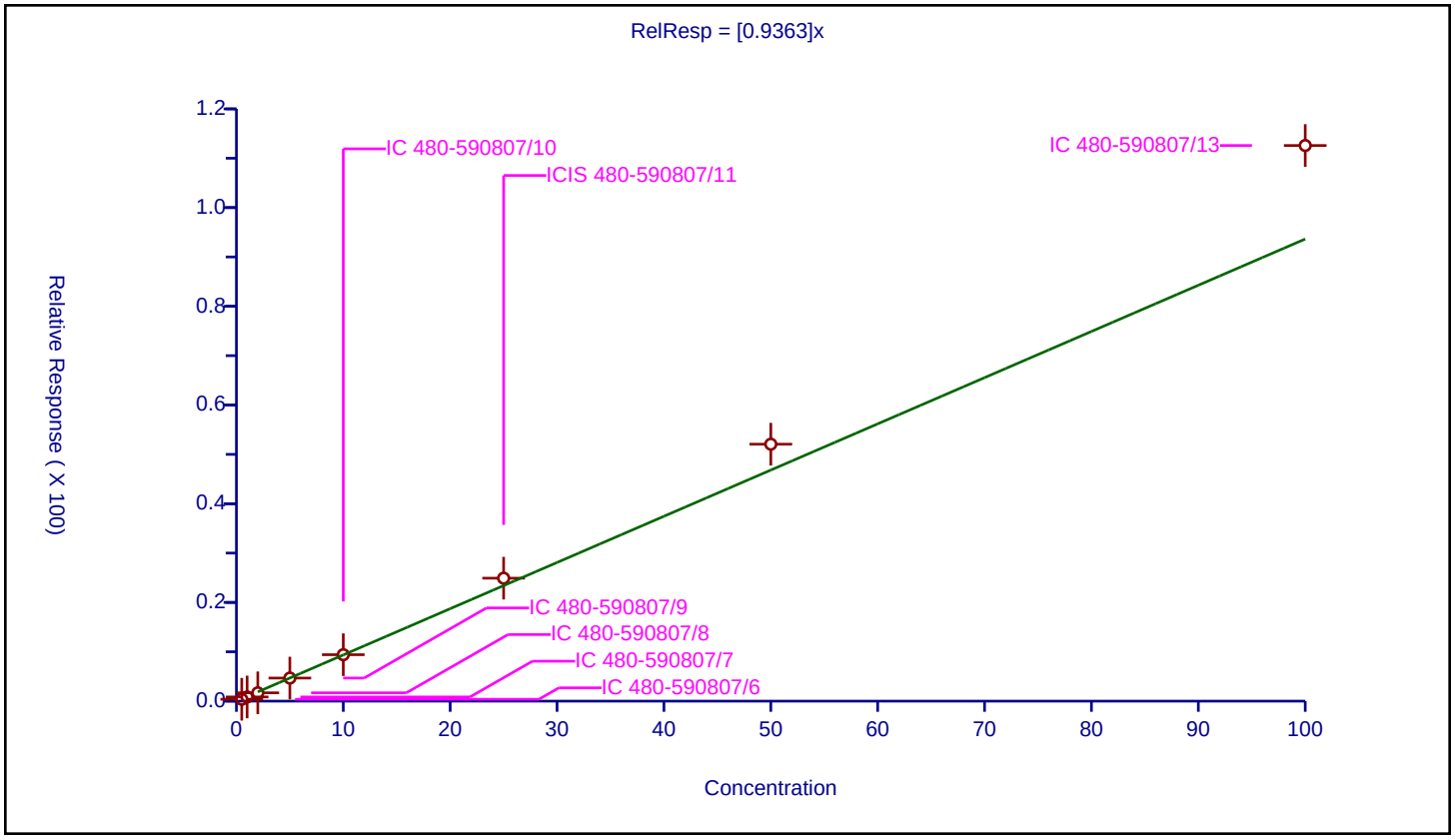
Curve Coefficients

Intercept:	0
Slope:	0.9363

Error Coefficients

Standard Error:	596000
Relative Standard Error:	12.6
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.382259	25.0	268993.0	0.764518	Y
2	IC 480-590807/7	1.0	0.842994	25.0	250239.0	0.842994	Y
3	IC 480-590807/8	2.0	1.687251	25.0	299170.0	0.843626	Y
4	IC 480-590807/9	5.0	4.674195	25.0	297816.0	0.934839	Y
5	IC 480-590807/10	10.0	9.409745	25.0	287994.0	0.940974	Y
6	ICIS 480-590807/11	25.0	24.91492	25.0	287378.0	0.996597	Y
7	IC 480-590807/12	50.0	52.065562	25.0	298006.0	1.041311	Y
8	IC 480-590807/13	100.0	112.57905	25.0	314199.0	1.125791	Y



Calibration / Ethyl methacrylate

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

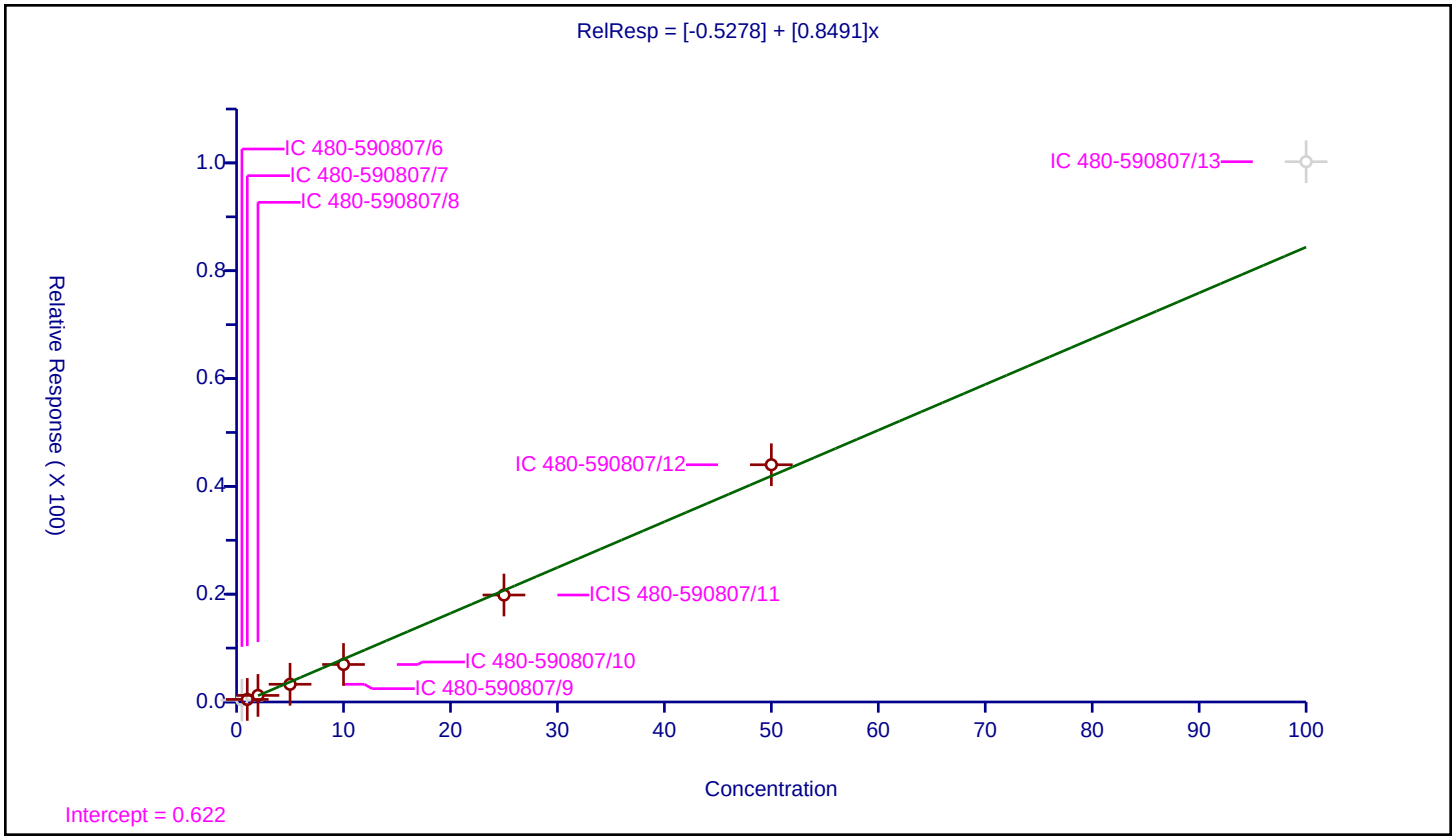
Curve Coefficients

Intercept:	-0.5278
Slope:	0.8491

Error Coefficients

Standard Error:	290000
Relative Standard Error:	12.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.339228	25.0	268993.0	0.678456	N
2	IC 480-590807/7	1.0	0.475945	25.0	250239.0	0.475945	Y
3	IC 480-590807/8	2.0	1.218204	25.0	299170.0	0.609102	Y
4	IC 480-590807/9	5.0	3.288776	25.0	297816.0	0.657755	Y
5	IC 480-590807/10	10.0	6.958391	25.0	287994.0	0.695839	Y
6	ICIS 480-590807/11	25.0	19.846074	25.0	287378.0	0.793843	Y
7	IC 480-590807/12	50.0	44.01002	25.0	298006.0	0.8802	Y
8	IC 480-590807/13	100.0	100.226688	25.0	314199.0	1.002267	N



Calibration / 1,1,2-Trichloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

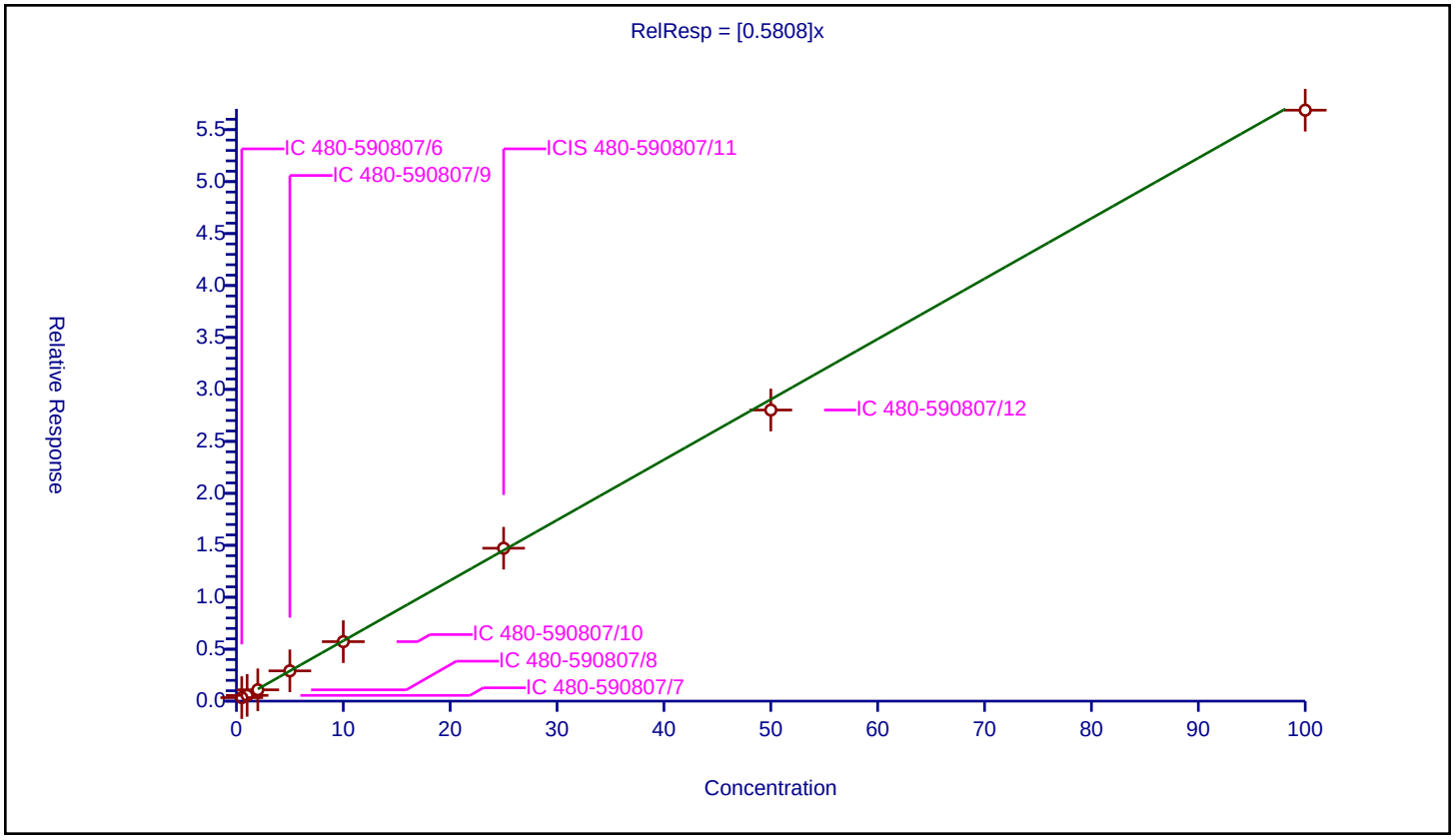
Curve Coefficients

Intercept:	0
Slope:	0.5808

Error Coefficients

Standard Error:	306000
Relative Standard Error:	7.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.337555	25.0	268993.0	0.675111	Y
2	IC 480-590807/7	1.0	0.552572	25.0	250239.0	0.552572	Y
3	IC 480-590807/8	2.0	1.091018	25.0	299170.0	0.545509	Y
4	IC 480-590807/9	5.0	2.913712	25.0	297816.0	0.582742	Y
5	IC 480-590807/10	10.0	5.725901	25.0	287994.0	0.57259	Y
6	ICIS 480-590807/11	25.0	14.717898	25.0	287378.0	0.588716	Y
7	IC 480-590807/12	50.0	28.018479	25.0	298006.0	0.56037	Y
8	IC 480-590807/13	100.0	56.876056	25.0	314199.0	0.568761	Y



Calibration / Tetrachloroethene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

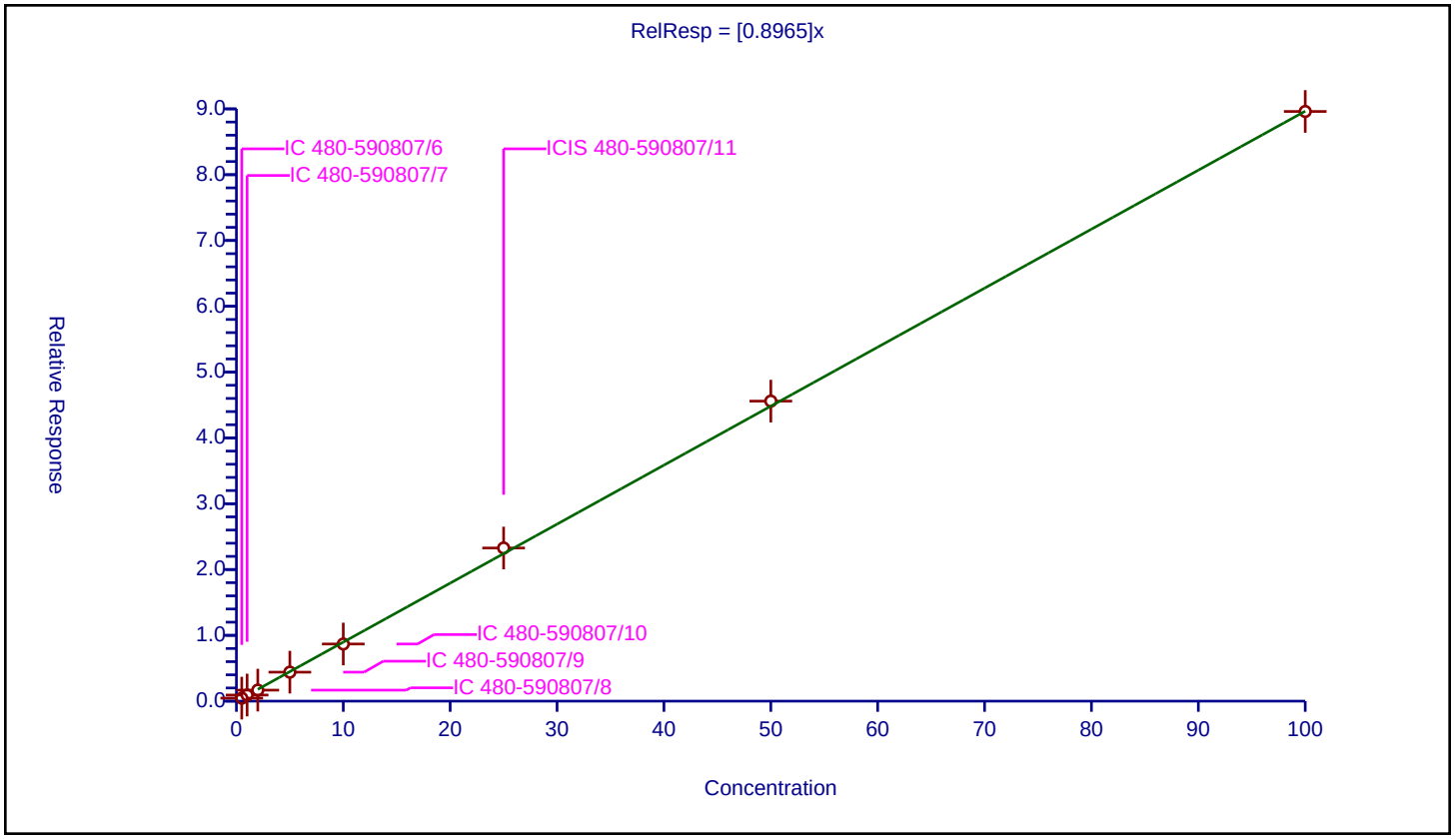
Curve Coefficients

Intercept:	0
Slope:	0.8965

Error Coefficients

Standard Error:	485000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.45819	25.0	268993.0	0.916381	Y
2	IC 480-590807/7	1.0	0.929711	25.0	250239.0	0.929711	Y
3	IC 480-590807/8	2.0	1.674884	25.0	299170.0	0.837442	Y
4	IC 480-590807/9	5.0	4.407335	25.0	297816.0	0.881467	Y
5	IC 480-590807/10	10.0	8.684903	25.0	287994.0	0.86849	Y
6	ICIS 480-590807/11	25.0	23.272484	25.0	287378.0	0.930899	Y
7	IC 480-590807/12	50.0	45.592371	25.0	298006.0	0.911847	Y
8	IC 480-590807/13	100.0	89.605393	25.0	314199.0	0.896054	Y



Calibration / 1,3-Dichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

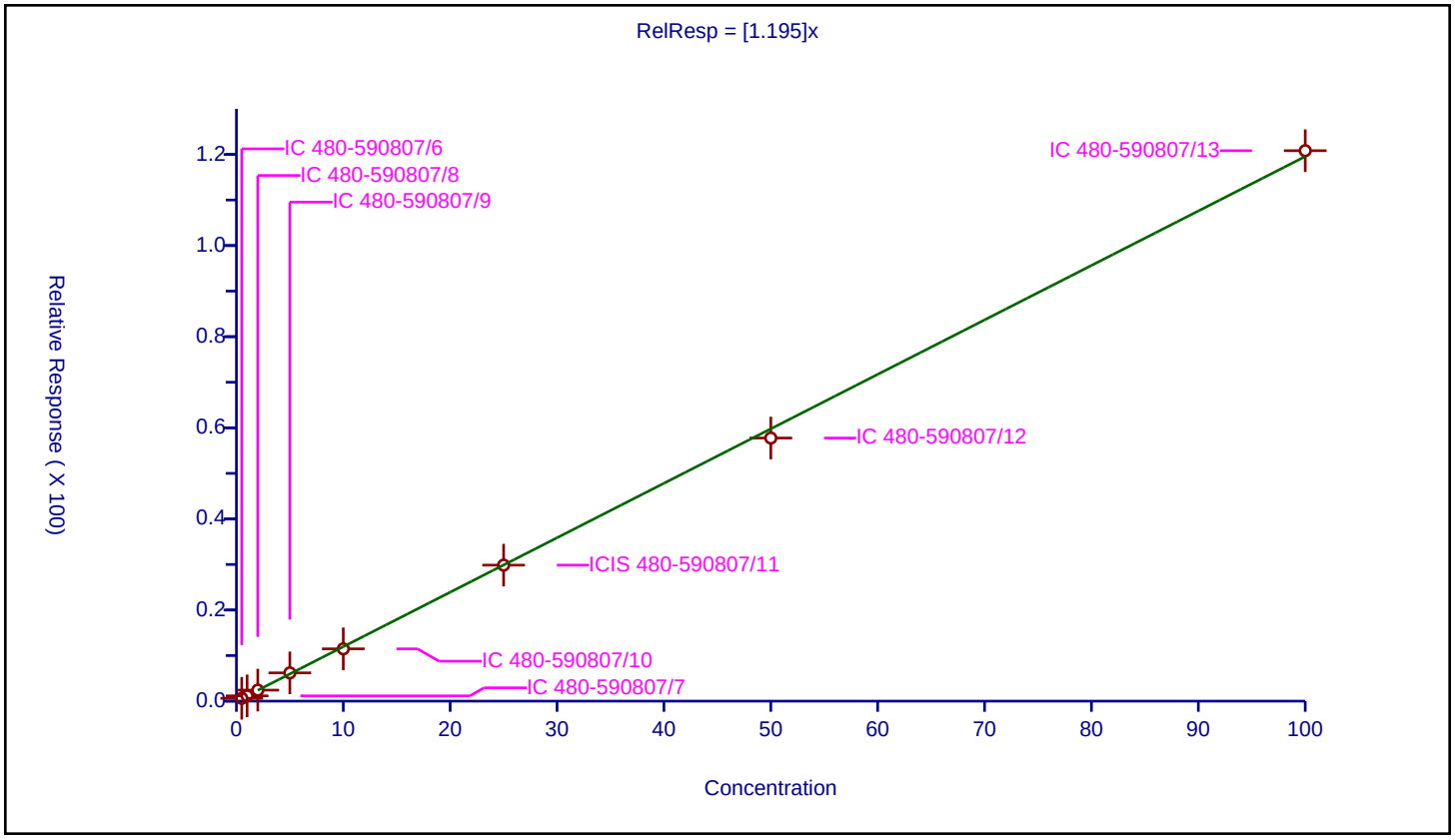
Curve Coefficients

Intercept:	0
Slope:	1.195

Error Coefficients

Standard Error:	646000
Relative Standard Error:	3.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.625016	25.0	268993.0	1.250033	Y
2	IC 480-590807/7	1.0	1.159292	25.0	250239.0	1.159292	Y
3	IC 480-590807/8	2.0	2.416185	25.0	299170.0	1.208092	Y
4	IC 480-590807/9	5.0	6.204502	25.0	297816.0	1.2409	Y
5	IC 480-590807/10	10.0	11.479145	25.0	287994.0	1.147915	Y
6	ICIS 480-590807/11	25.0	29.851276	25.0	287378.0	1.194051	Y
7	IC 480-590807/12	50.0	57.749341	25.0	298006.0	1.154987	Y
8	IC 480-590807/13	100.0	120.826451	25.0	314199.0	1.208265	Y



Calibration / 2-Hexanone

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

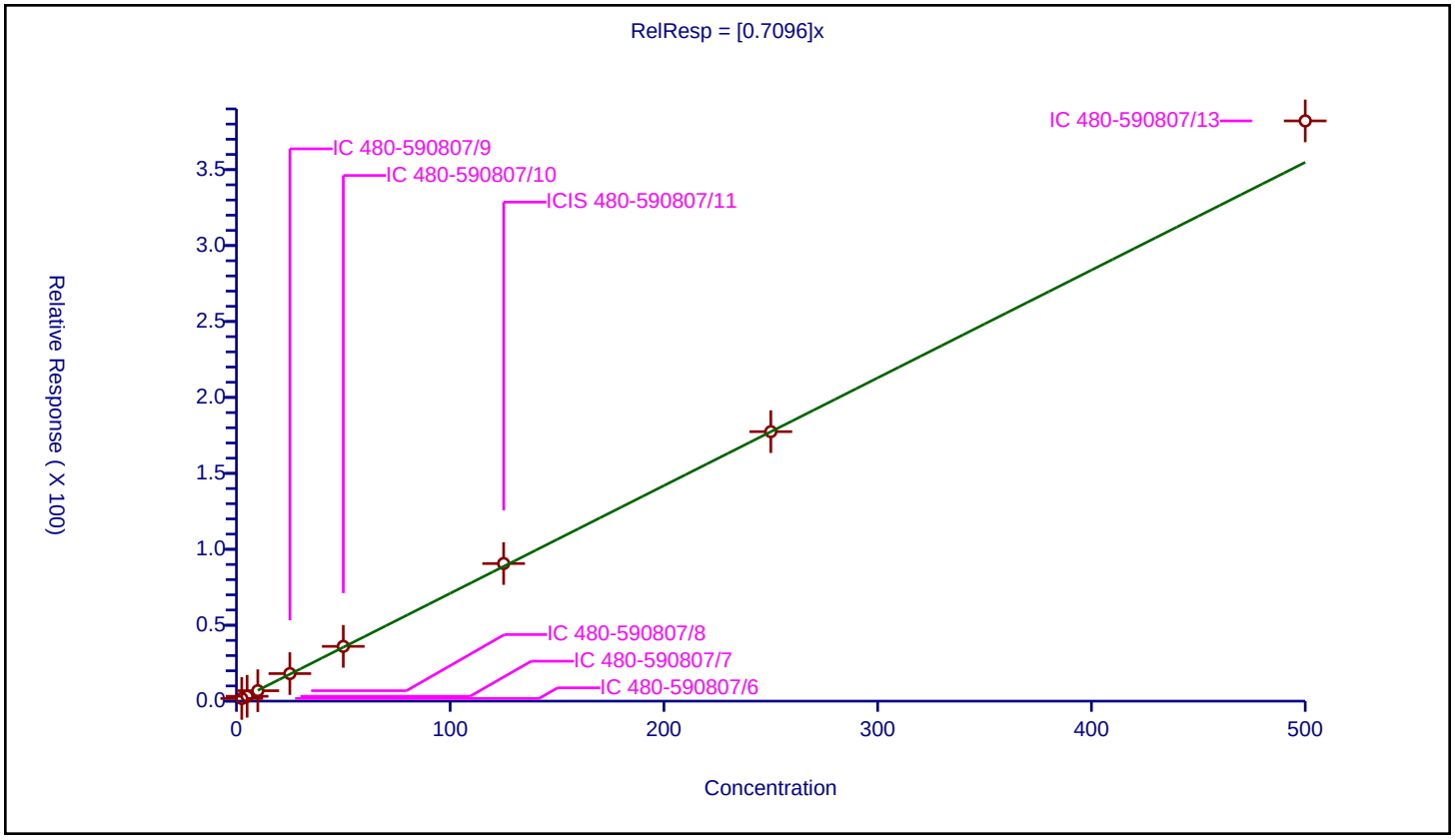
Curve Coefficients

Intercept:	0
Slope:	0.7096

Error Coefficients

Standard Error:	2030000
Relative Standard Error:	5.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	2.5	1.758038	25.0	268993.0	0.703215	Y
2	IC 480-590807/7	5.0	3.205935	25.0	250239.0	0.641187	Y
3	IC 480-590807/8	10.0	6.866581	25.0	299170.0	0.686658	Y
4	IC 480-590807/9	25.0	18.138884	25.0	297816.0	0.725555	Y
5	IC 480-590807/10	50.0	36.069067	25.0	287994.0	0.721381	Y
6	ICIS 480-590807/11	125.0	90.620194	25.0	287378.0	0.724962	Y
7	IC 480-590807/12	250.0	177.46396	25.0	298006.0	0.709856	Y
8	IC 480-590807/13	500.0	382.081897	25.0	314199.0	0.764164	Y



Calibration / Chlorodibromomethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

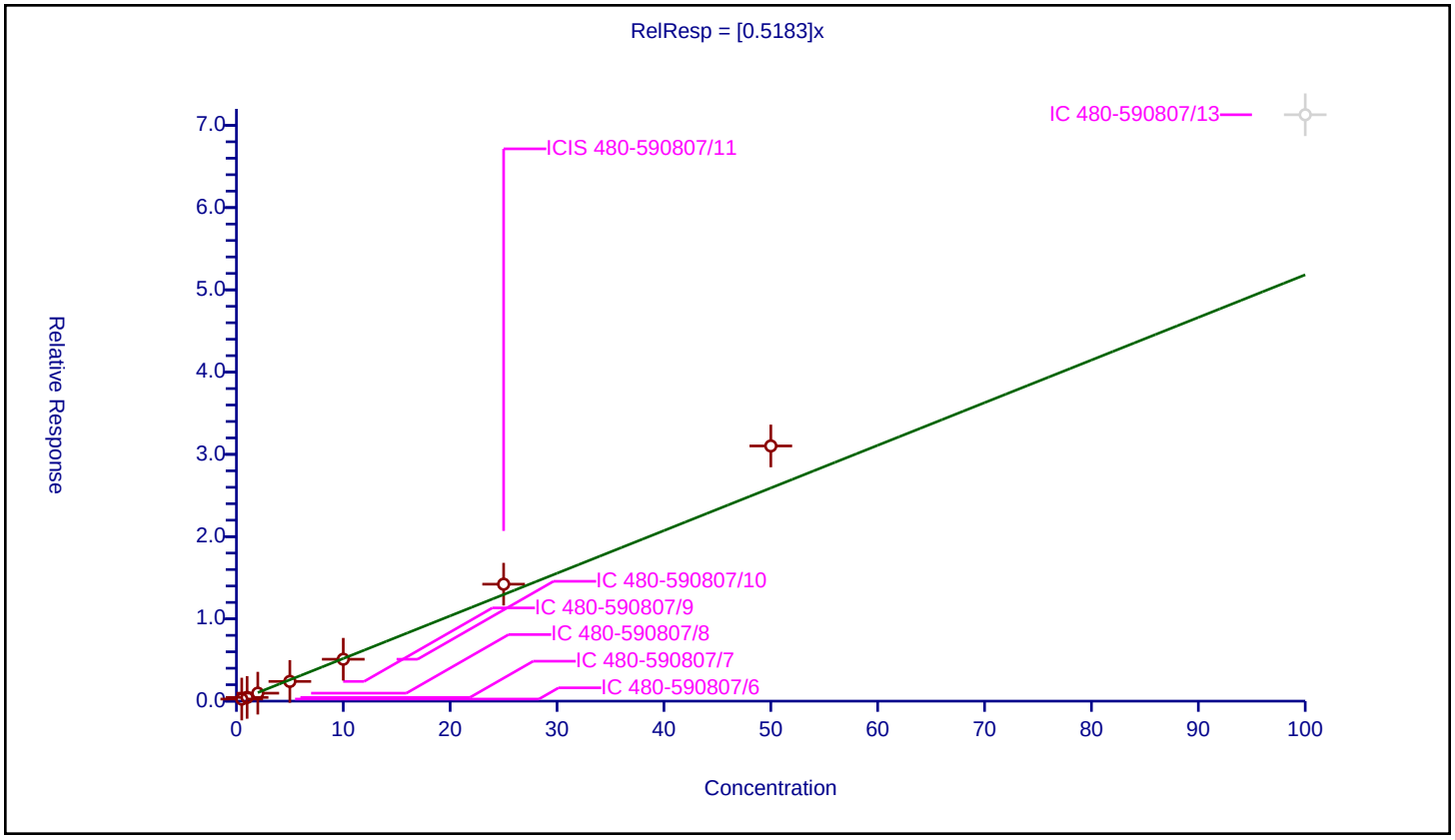
Curve Coefficients

Intercept:	0
Slope:	0.5183

Error Coefficients

Standard Error:	167000
Relative Standard Error:	11.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.254653	25.0	268993.0	0.509307	Y
2	IC 480-590807/7	1.0	0.455065	25.0	250239.0	0.455065	Y
3	IC 480-590807/8	2.0	0.970853	25.0	299170.0	0.485426	Y
4	IC 480-590807/9	5.0	2.398293	25.0	297816.0	0.479659	Y
5	IC 480-590807/10	10.0	5.094464	25.0	287994.0	0.509446	Y
6	ICIS 480-590807/11	25.0	14.219599	25.0	287378.0	0.568784	Y
7	IC 480-590807/12	50.0	31.023453	25.0	298006.0	0.620469	Y
8	IC 480-590807/13	100.0	71.288419	25.0	314199.0	0.712884	N



Calibration / Ethylene Dibromide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

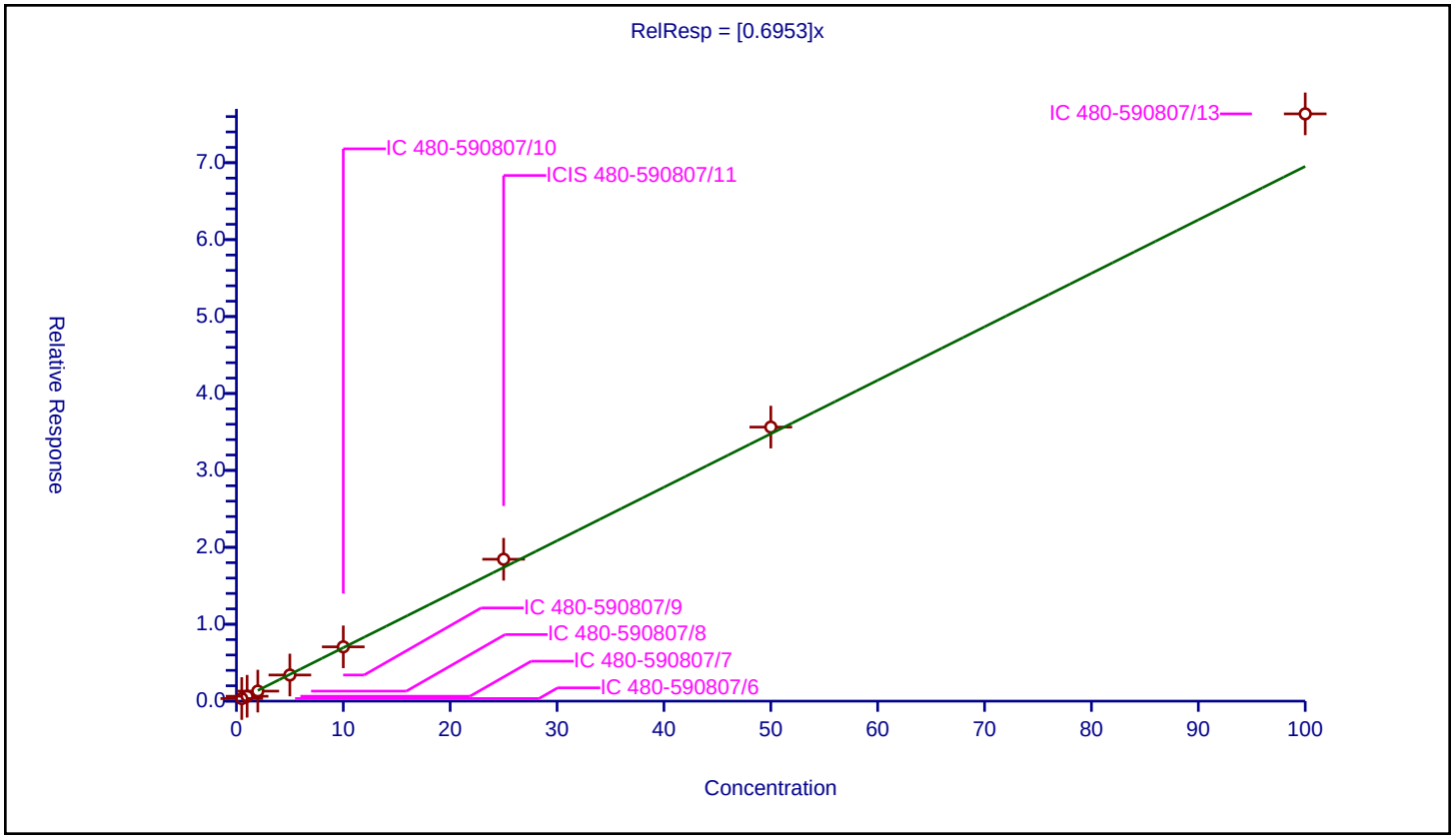
Curve Coefficients

Intercept:	0
Slope:	0.6953

Error Coefficients

Standard Error:	406000
Relative Standard Error:	6.2
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.337648	25.0	268993.0	0.675296	Y
2	IC 480-590807/7	1.0	0.635592	25.0	250239.0	0.635592	Y
3	IC 480-590807/8	2.0	1.303607	25.0	299170.0	0.651803	Y
4	IC 480-590807/9	5.0	3.397568	25.0	297816.0	0.679514	Y
5	IC 480-590807/10	10.0	7.057786	25.0	287994.0	0.705779	Y
6	ICIS 480-590807/11	25.0	18.447393	25.0	287378.0	0.737896	Y
7	IC 480-590807/12	50.0	35.630071	25.0	298006.0	0.712601	Y
8	IC 480-590807/13	100.0	76.352328	25.0	314199.0	0.763523	Y



Calibration / Chlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

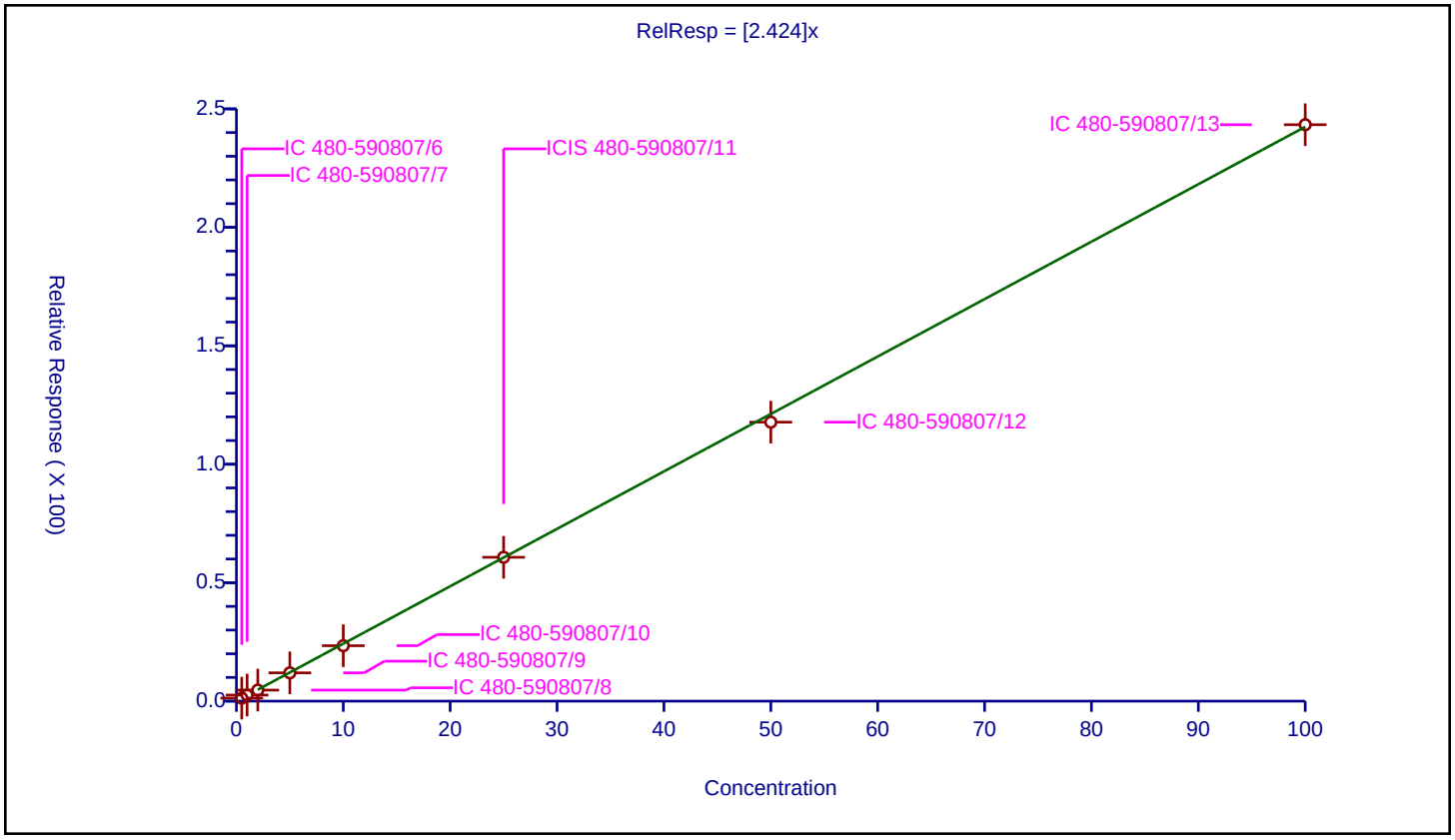
Curve Coefficients

Intercept:	0
Slope:	2.424

Error Coefficients

Standard Error:	1300000
Relative Standard Error:	3.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.274476	25.0	268993.0	2.548951	Y
2	IC 480-590807/7	1.0	2.567446	25.0	250239.0	2.567446	Y
3	IC 480-590807/8	2.0	4.663151	25.0	299170.0	2.331576	Y
4	IC 480-590807/9	5.0	11.941434	25.0	297816.0	2.388287	Y
5	IC 480-590807/10	10.0	23.403352	25.0	287994.0	2.340335	Y
6	ICIS 480-590807/11	25.0	60.731684	25.0	287378.0	2.429267	Y
7	IC 480-590807/12	50.0	117.758199	25.0	298006.0	2.355164	Y
8	IC 480-590807/13	100.0	243.317133	25.0	314199.0	2.433171	Y



Calibration / 1,1,1,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

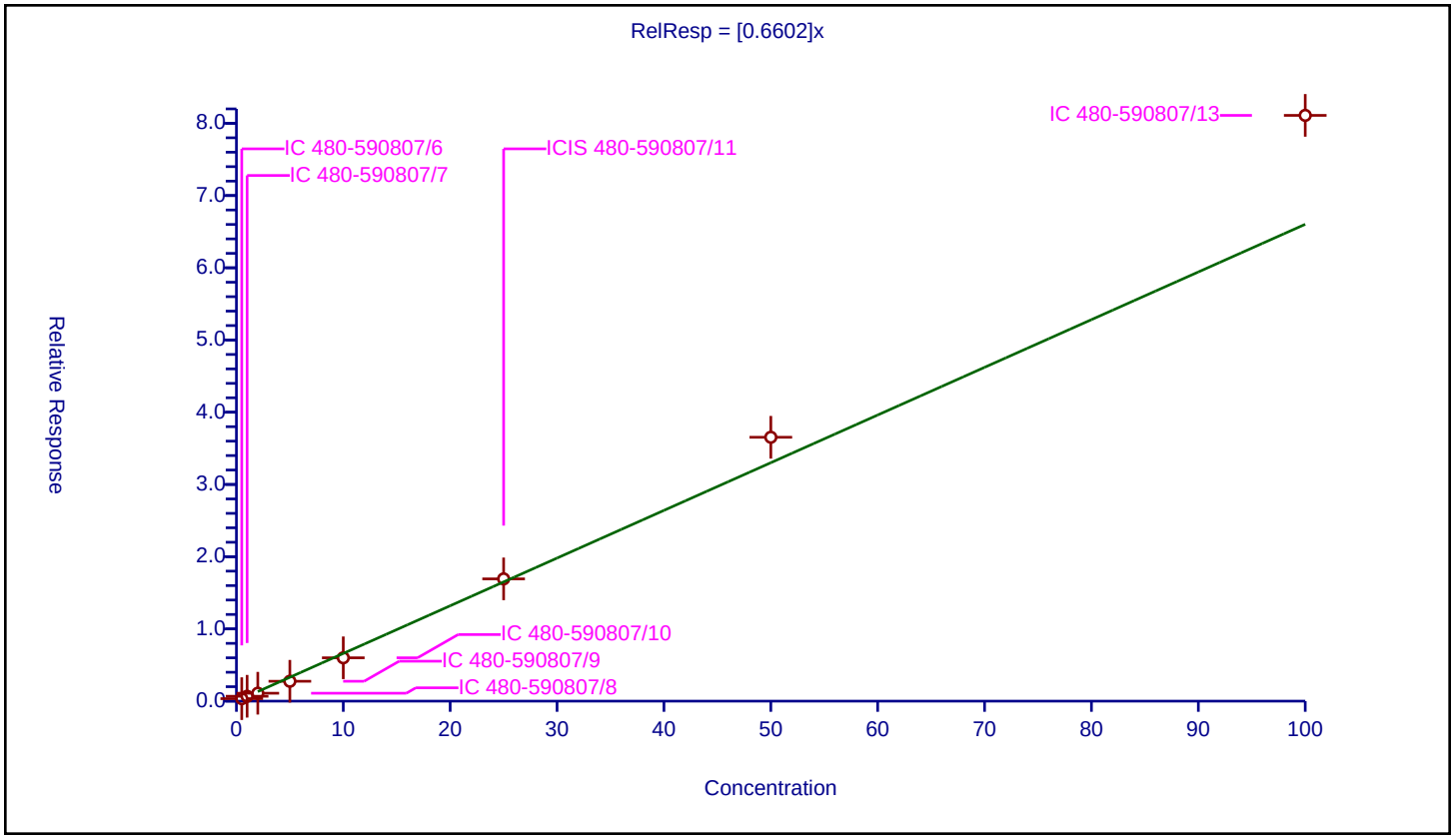
Curve Coefficients

Intercept:	0
Slope:	0.6602

Error Coefficients

Standard Error:	426000
Relative Standard Error:	13.7
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.976

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.343968	25.0	268993.0	0.687936	Y
2	IC 480-590807/7	1.0	0.674855	25.0	250239.0	0.674855	Y
3	IC 480-590807/8	2.0	1.09879	25.0	299170.0	0.549395	Y
4	IC 480-590807/9	5.0	2.753294	25.0	297816.0	0.550659	Y
5	IC 480-590807/10	10.0	6.001601	25.0	287994.0	0.60016	Y
6	ICIS 480-590807/11	25.0	16.927705	25.0	287378.0	0.677108	Y
7	IC 480-590807/12	50.0	36.534835	25.0	298006.0	0.730697	Y
8	IC 480-590807/13	100.0	81.101865	25.0	314199.0	0.811019	Y



Calibration / Ethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

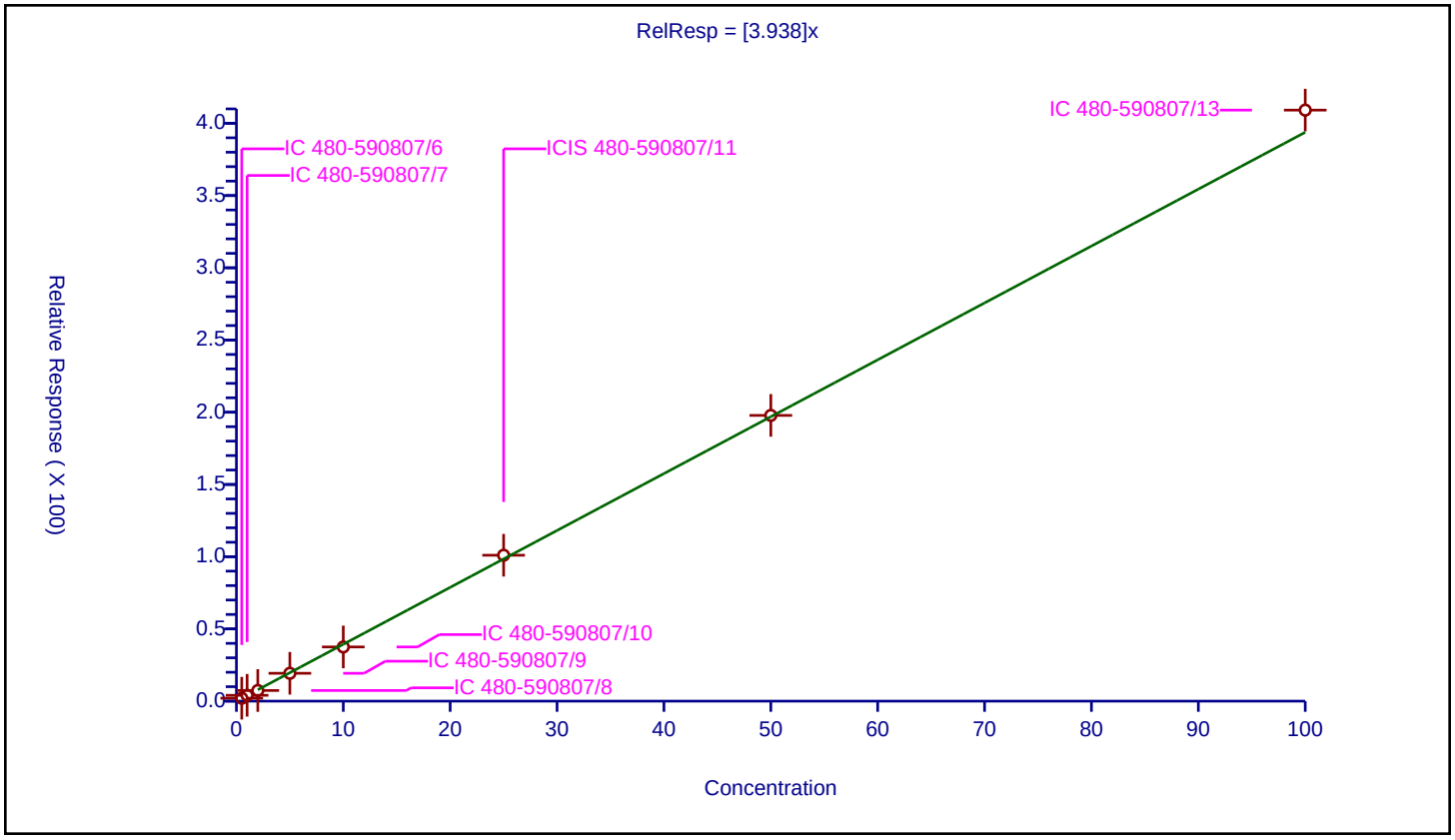
Curve Coefficients

Intercept:	0
Slope:	3.938

Error Coefficients

Standard Error:	2190000
Relative Standard Error:	4.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	2.035369	25.0	268993.0	4.070738	Y
2	IC 480-590807/7	1.0	4.054624	25.0	250239.0	4.054624	Y
3	IC 480-590807/8	2.0	7.370893	25.0	299170.0	3.685446	Y
4	IC 480-590807/9	5.0	19.273058	25.0	297816.0	3.854612	Y
5	IC 480-590807/10	10.0	37.505729	25.0	287994.0	3.750573	Y
6	ICIS 480-590807/11	25.0	101.013126	25.0	287378.0	4.040525	Y
7	IC 480-590807/12	50.0	197.810531	25.0	298006.0	3.956211	Y
8	IC 480-590807/13	100.0	409.144284	25.0	314199.0	4.091443	Y



Calibration / m-Xylene & p-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

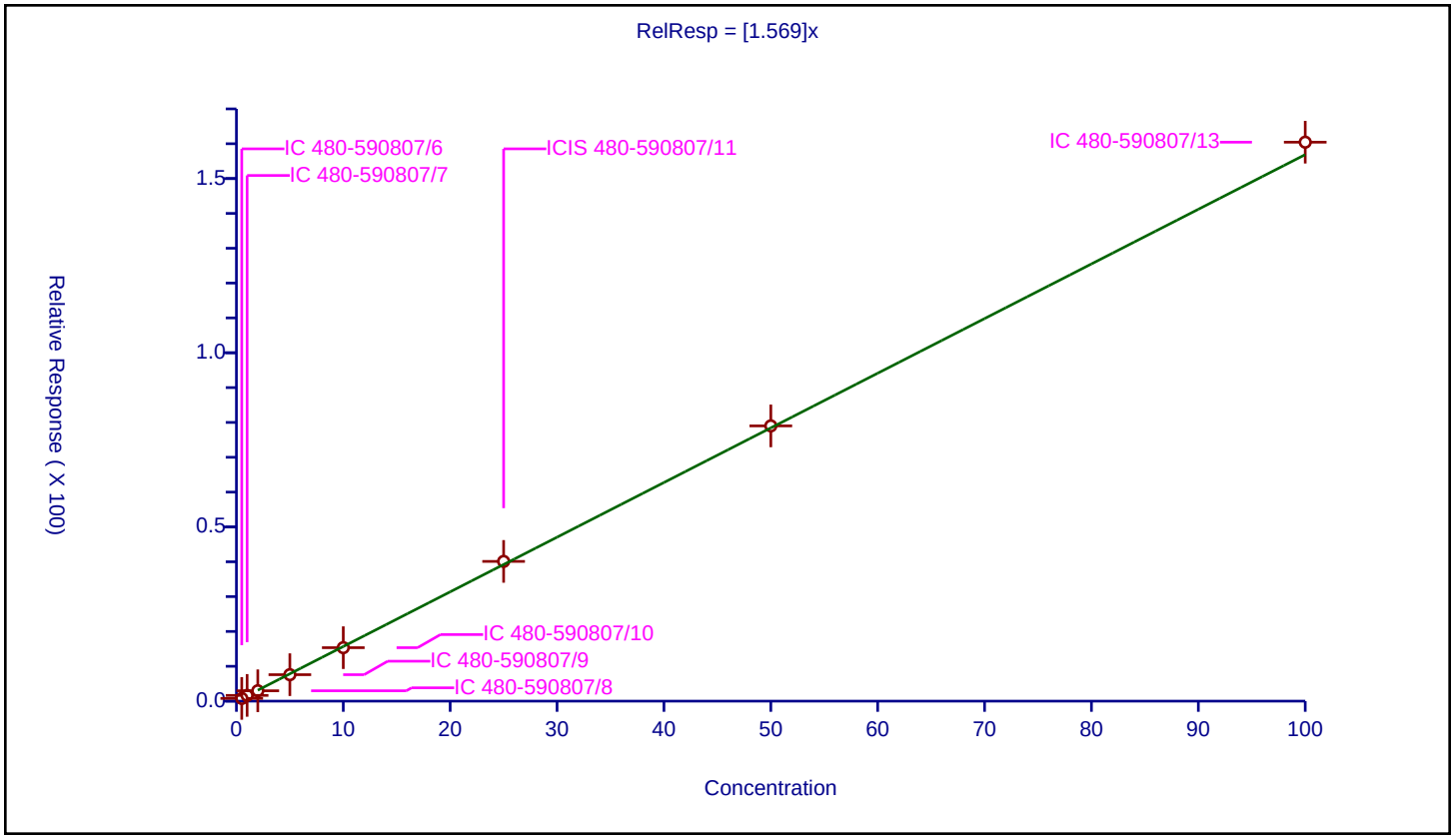
Curve Coefficients

Intercept:	0
Slope:	1.569

Error Coefficients

Standard Error:	862000
Relative Standard Error:	3.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.785987	25.0	268993.0	1.571974	Y
2	IC 480-590807/7	1.0	1.644828	25.0	250239.0	1.644828	Y
3	IC 480-590807/8	2.0	2.979075	25.0	299170.0	1.489538	Y
4	IC 480-590807/9	5.0	7.596721	25.0	297816.0	1.519344	Y
5	IC 480-590807/10	10.0	15.34815	25.0	287994.0	1.534815	Y
6	ICIS 480-590807/11	25.0	40.112587	25.0	287378.0	1.604503	Y
7	IC 480-590807/12	50.0	79.008812	25.0	298006.0	1.580176	Y
8	IC 480-590807/13	100.0	160.44362	25.0	314199.0	1.604436	Y



Calibration / o-Xylene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

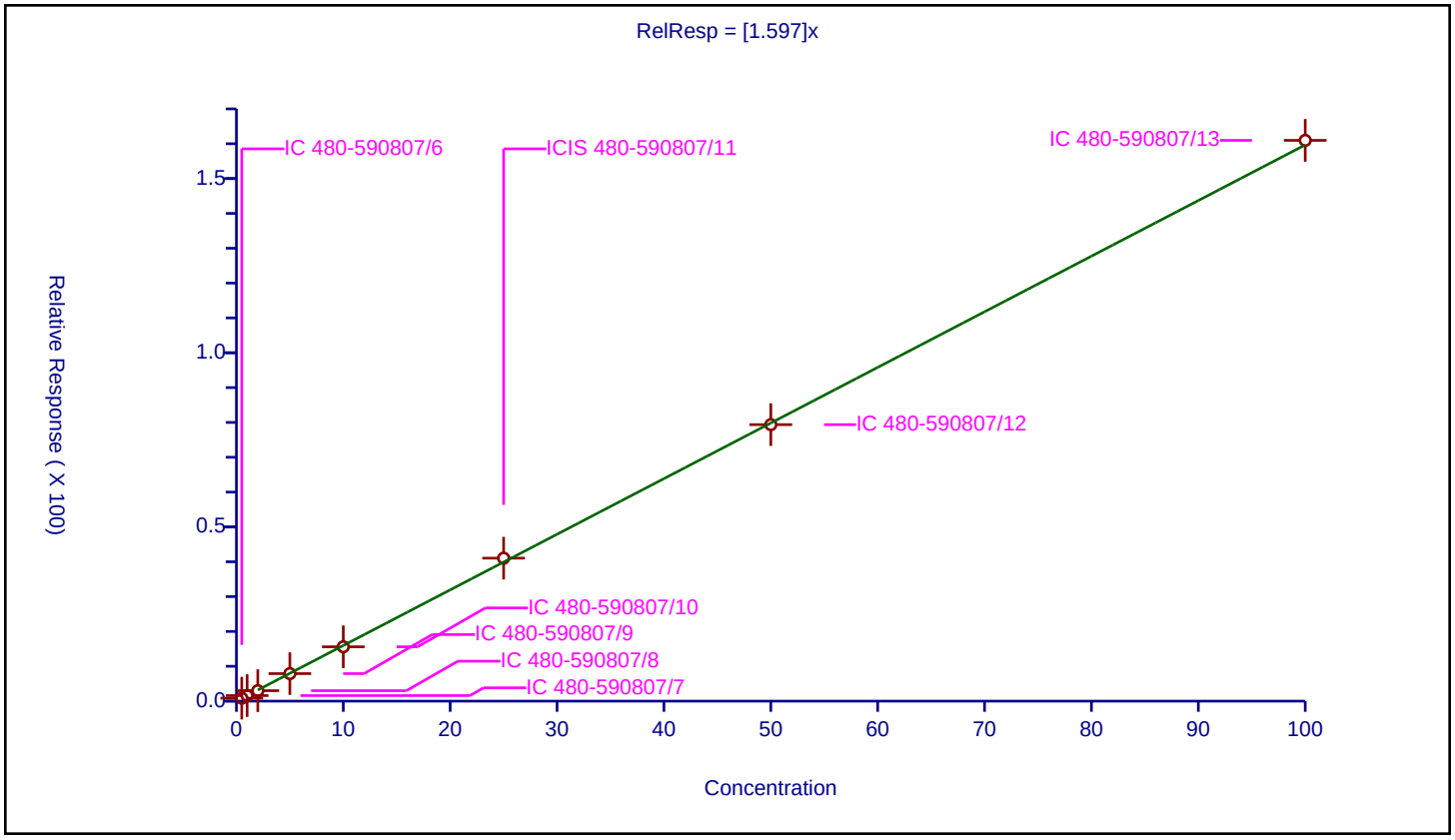
Curve Coefficients

Intercept:	0
Slope:	1.597

Error Coefficients

Standard Error:	866000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.850487	25.0	268993.0	1.700974	Y
2	IC 480-590807/7	1.0	1.592178	25.0	250239.0	1.592178	Y
3	IC 480-590807/8	2.0	3.00122	25.0	299170.0	1.50061	Y
4	IC 480-590807/9	5.0	7.903538	25.0	297816.0	1.580708	Y
5	IC 480-590807/10	10.0	15.600846	25.0	287994.0	1.560085	Y
6	ICIS 480-590807/11	25.0	41.038806	25.0	287378.0	1.641552	Y
7	IC 480-590807/12	50.0	79.364426	25.0	298006.0	1.587289	Y
8	IC 480-590807/13	100.0	160.961206	25.0	314199.0	1.609612	Y



Calibration / Styrene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

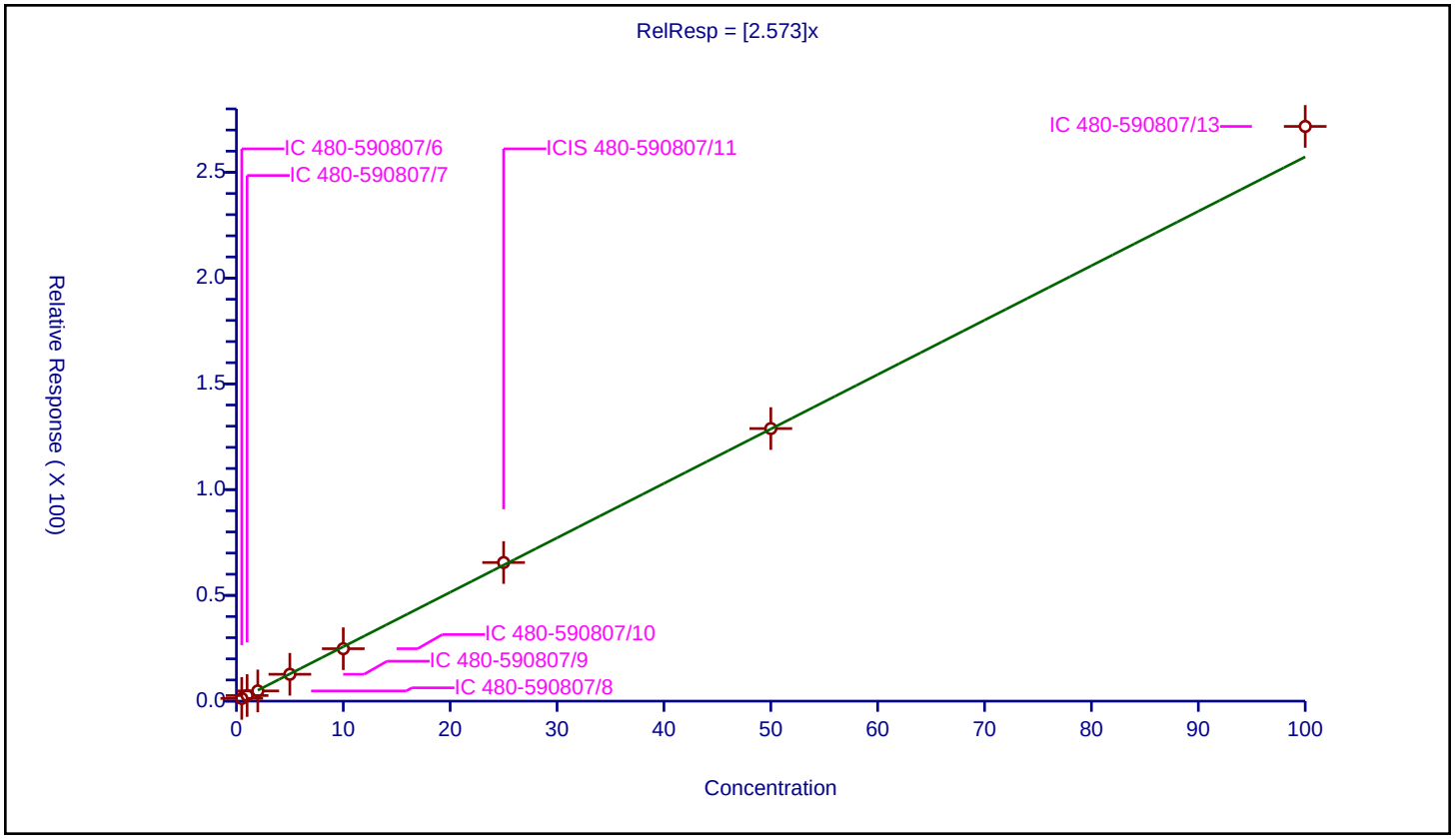
Curve Coefficients

Intercept:	0
Slope:	2.573

Error Coefficients

Standard Error:	1450000
Relative Standard Error:	3.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.292227	25.0	268993.0	2.584454	Y
2	IC 480-590807/7	1.0	2.651865	25.0	250239.0	2.651865	Y
3	IC 480-590807/8	2.0	4.830615	25.0	299170.0	2.415307	Y
4	IC 480-590807/9	5.0	12.697353	25.0	297816.0	2.539471	Y
5	IC 480-590807/10	10.0	24.789753	25.0	287994.0	2.478975	Y
6	ICIS 480-590807/11	25.0	65.533548	25.0	287378.0	2.621342	Y
7	IC 480-590807/12	50.0	128.877523	25.0	298006.0	2.57755	Y
8	IC 480-590807/13	100.0	271.710524	25.0	314199.0	2.717105	Y



Calibration / Bromoform

Curve Type:	Linear
Weighting:	Conc
Origin:	None
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

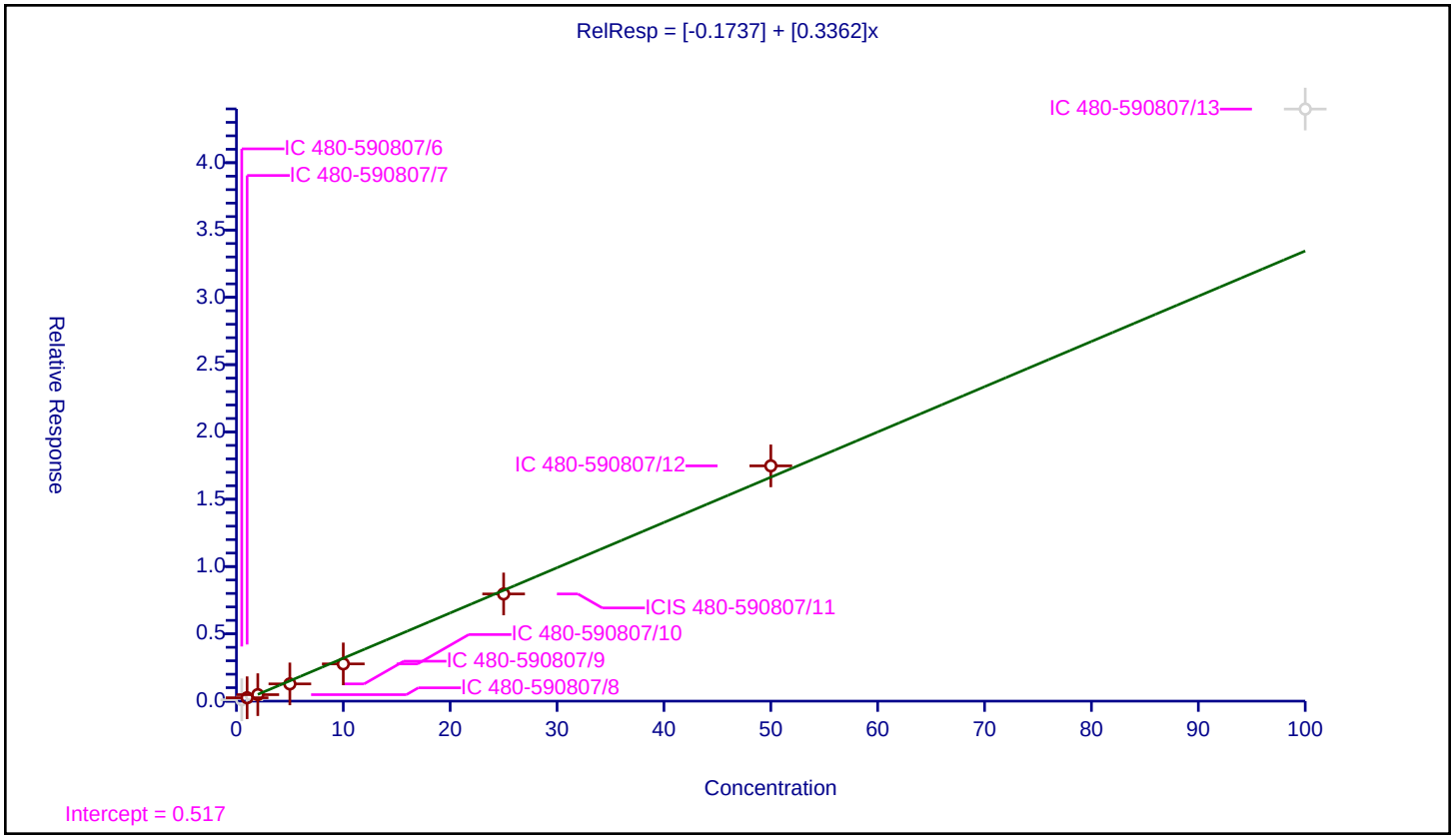
Curve Coefficients

Intercept:	-0.1737
Slope:	0.3362

Error Coefficients

Standard Error:	115000
Relative Standard Error:	16.5
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.104743	25.0	268993.0	0.209485	N
2	IC 480-590807/7	1.0	0.251859	25.0	250239.0	0.251859	Y
3	IC 480-590807/8	2.0	0.482752	25.0	299170.0	0.241376	Y
4	IC 480-590807/9	5.0	1.280405	25.0	297816.0	0.256081	Y
5	IC 480-590807/10	10.0	2.76629	25.0	287994.0	0.276629	Y
6	ICIS 480-590807/11	25.0	7.96364	25.0	287378.0	0.318546	Y
7	IC 480-590807/12	50.0	17.479262	25.0	298006.0	0.349585	Y
8	IC 480-590807/13	100.0	43.986534	25.0	314199.0	0.439865	N



Calibration / Isopropylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

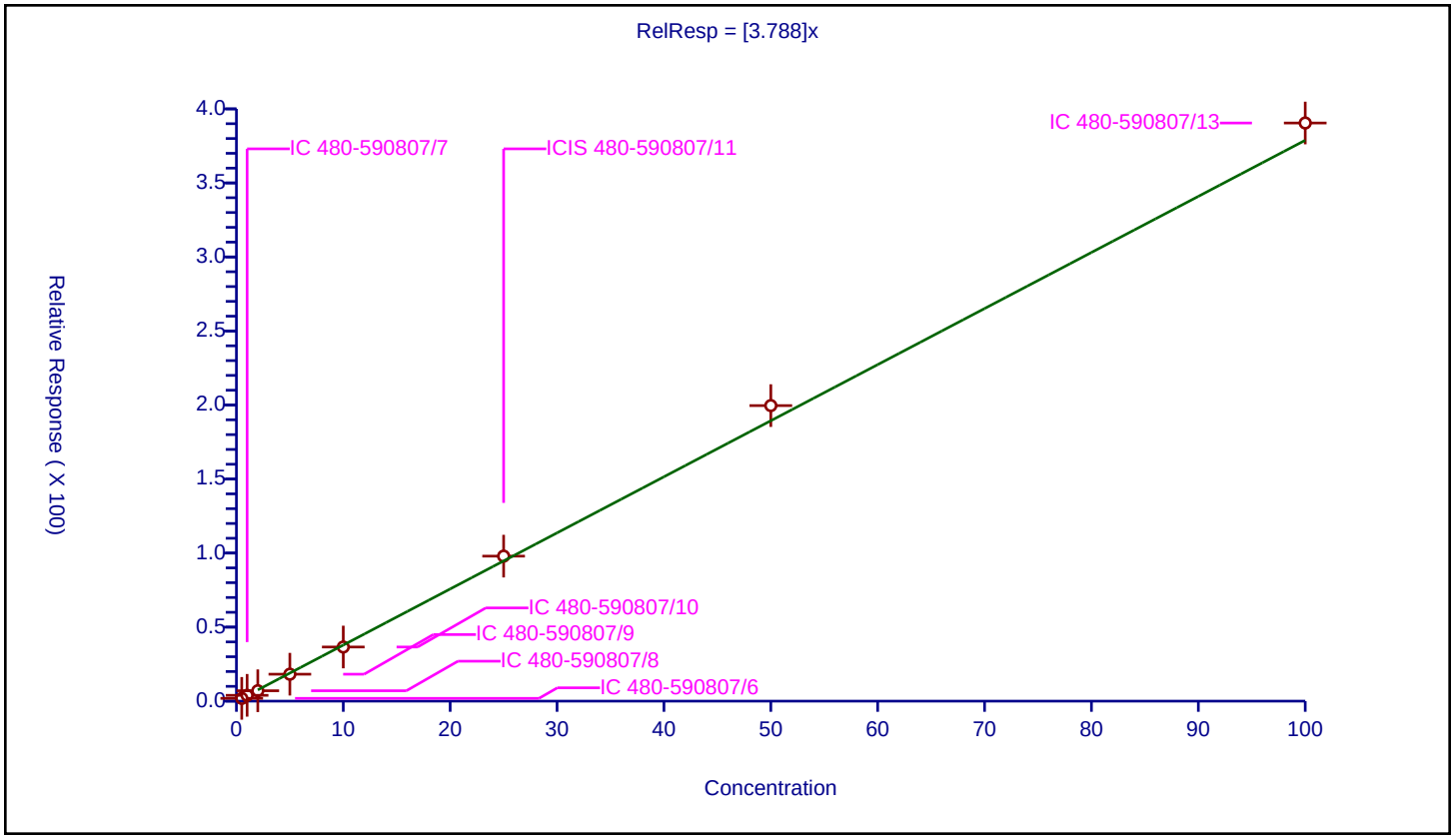
Curve Coefficients

Intercept:	0
Slope:	3.788

Error Coefficients

Standard Error:	2400000
Relative Standard Error:	4.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.877908	25.0	308668.0	3.755815	Y
2	IC 480-590807/7	1.0	3.924935	25.0	290801.0	3.924935	Y
3	IC 480-590807/8	2.0	7.023715	25.0	329078.0	3.511857	Y
4	IC 480-590807/9	5.0	18.202668	25.0	335194.0	3.640534	Y
5	IC 480-590807/10	10.0	36.562719	25.0	324636.0	3.656272	Y
6	ICIS 480-590807/11	25.0	97.93247	25.0	324300.0	3.917299	Y
7	IC 480-590807/12	50.0	199.604865	25.0	326471.0	3.992097	Y
8	IC 480-590807/13	100.0	390.469149	25.0	359758.0	3.904691	Y



Calibration / 4-Bromofluorobenzene (Surr)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

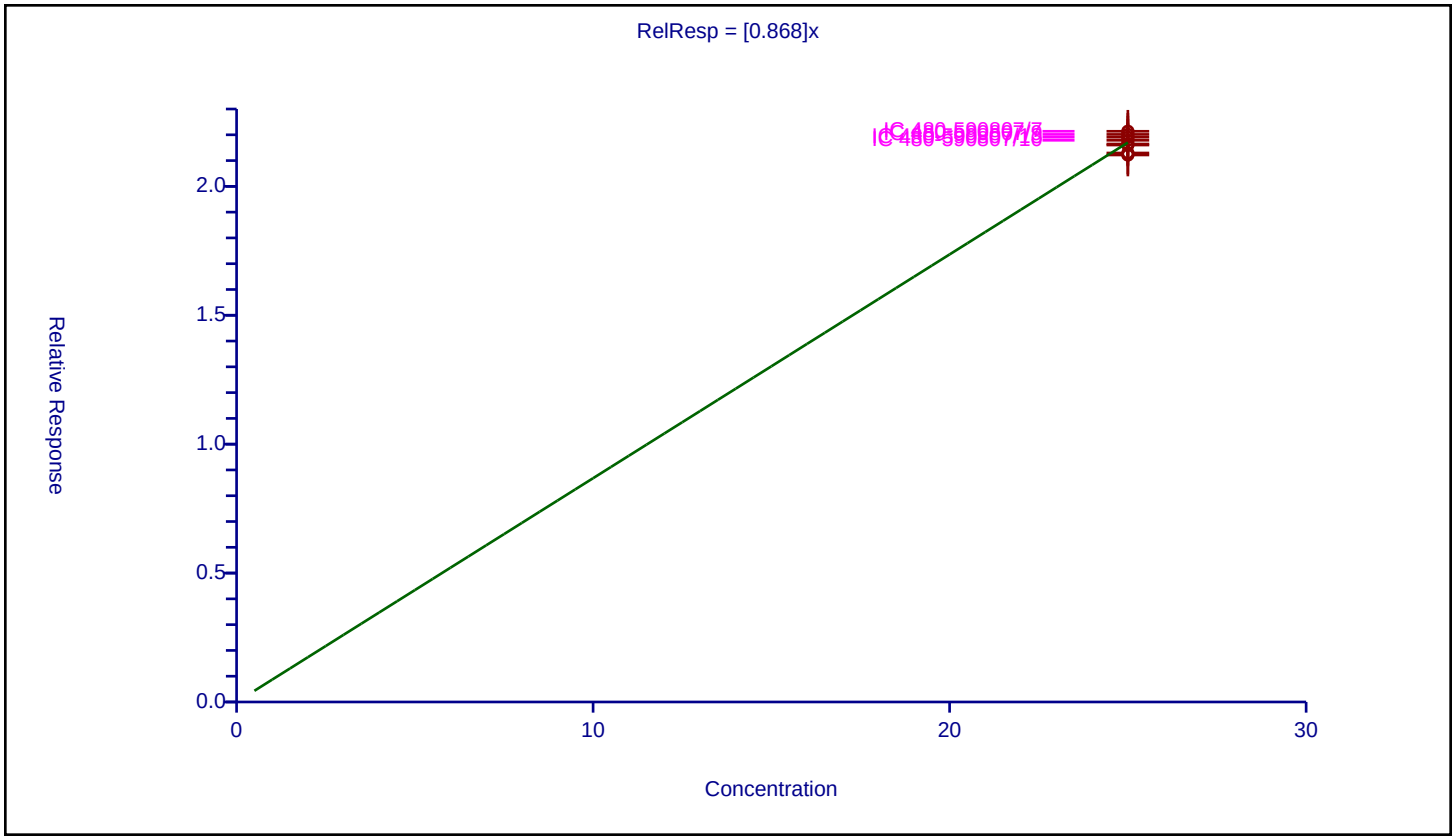
Curve Coefficients

Intercept:	0
Slope:	0.868

Error Coefficients

Standard Error:	268000
Relative Standard Error:	1.5
Correlation Coefficient:	0
Coefficient of Determination (Adjusted):	0

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	25.0	21.643407	25.0	268993.0	0.865736	Y
2	IC 480-590807/7	25.0	22.136338	25.0	250239.0	0.885454	Y
3	IC 480-590807/8	25.0	21.294582	25.0	299170.0	0.851783	Y
4	IC 480-590807/9	25.0	22.014012	25.0	297816.0	0.88056	Y
5	IC 480-590807/10	25.0	21.787086	25.0	287994.0	0.871483	Y
6	ICIS 480-590807/11	25.0	21.60308	25.0	287378.0	0.864123	Y
7	IC 480-590807/12	25.0	21.217274	25.0	298006.0	0.848691	Y
8	IC 480-590807/13	25.0	21.905305	25.0	314199.0	0.876212	Y



Calibration / Bromobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

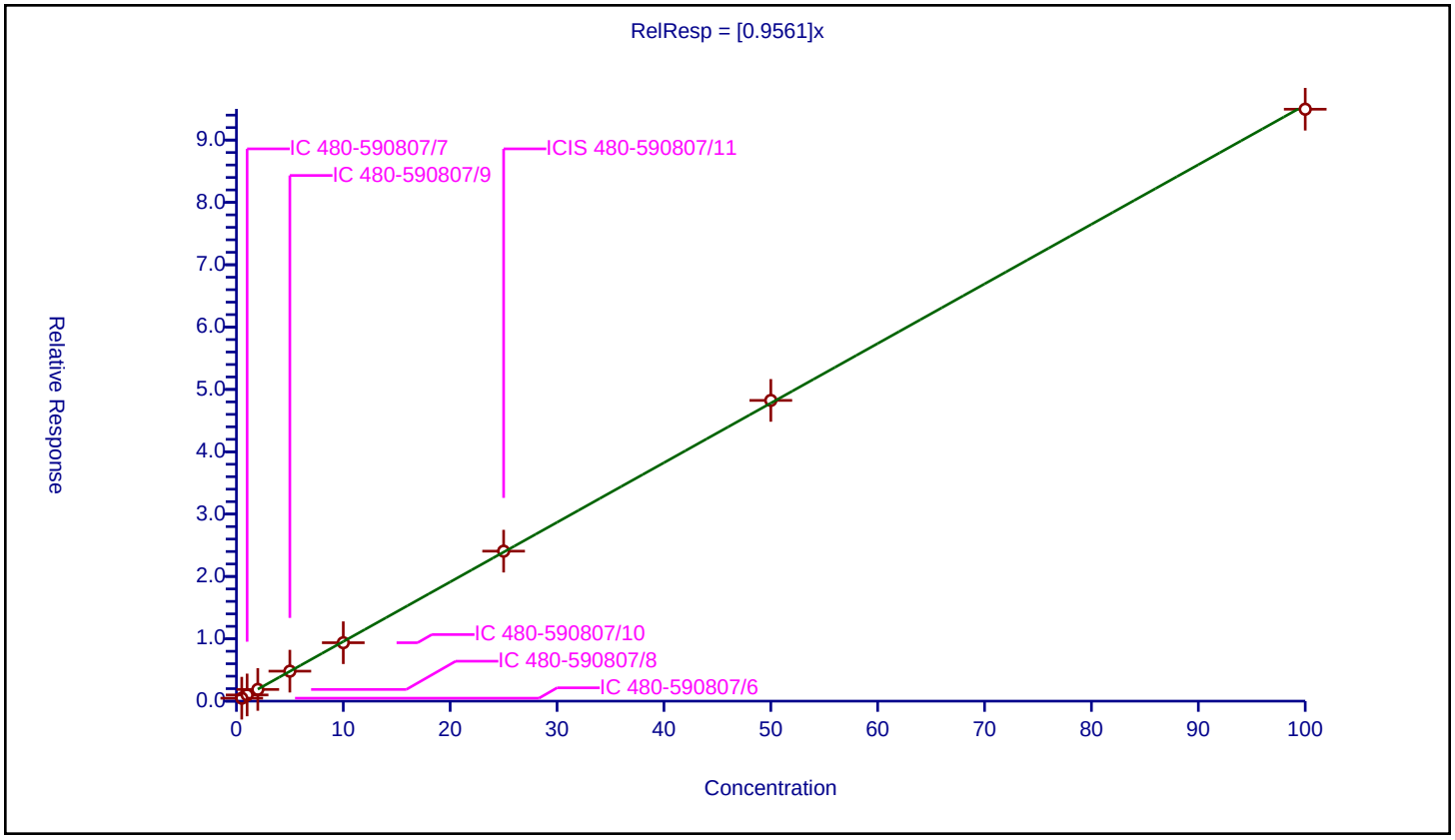
Curve Coefficients

Intercept:	0
Slope:	0.9561

Error Coefficients

Standard Error:	583000
Relative Standard Error:	2.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.470408	25.0	308668.0	0.940817	Y
2	IC 480-590807/7	1.0	0.994151	25.0	290801.0	0.994151	Y
3	IC 480-590807/8	2.0	1.876987	25.0	329078.0	0.938493	Y
4	IC 480-590807/9	5.0	4.808932	25.0	335194.0	0.961786	Y
5	IC 480-590807/10	10.0	9.371419	25.0	324636.0	0.937142	Y
6	ICIS 480-590807/11	25.0	24.058048	25.0	324300.0	0.962322	Y
7	IC 480-590807/12	50.0	48.241038	25.0	326471.0	0.964821	Y
8	IC 480-590807/13	100.0	94.949174	25.0	359758.0	0.949492	Y



Calibration / 1,1,2,2-Tetrachloroethane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

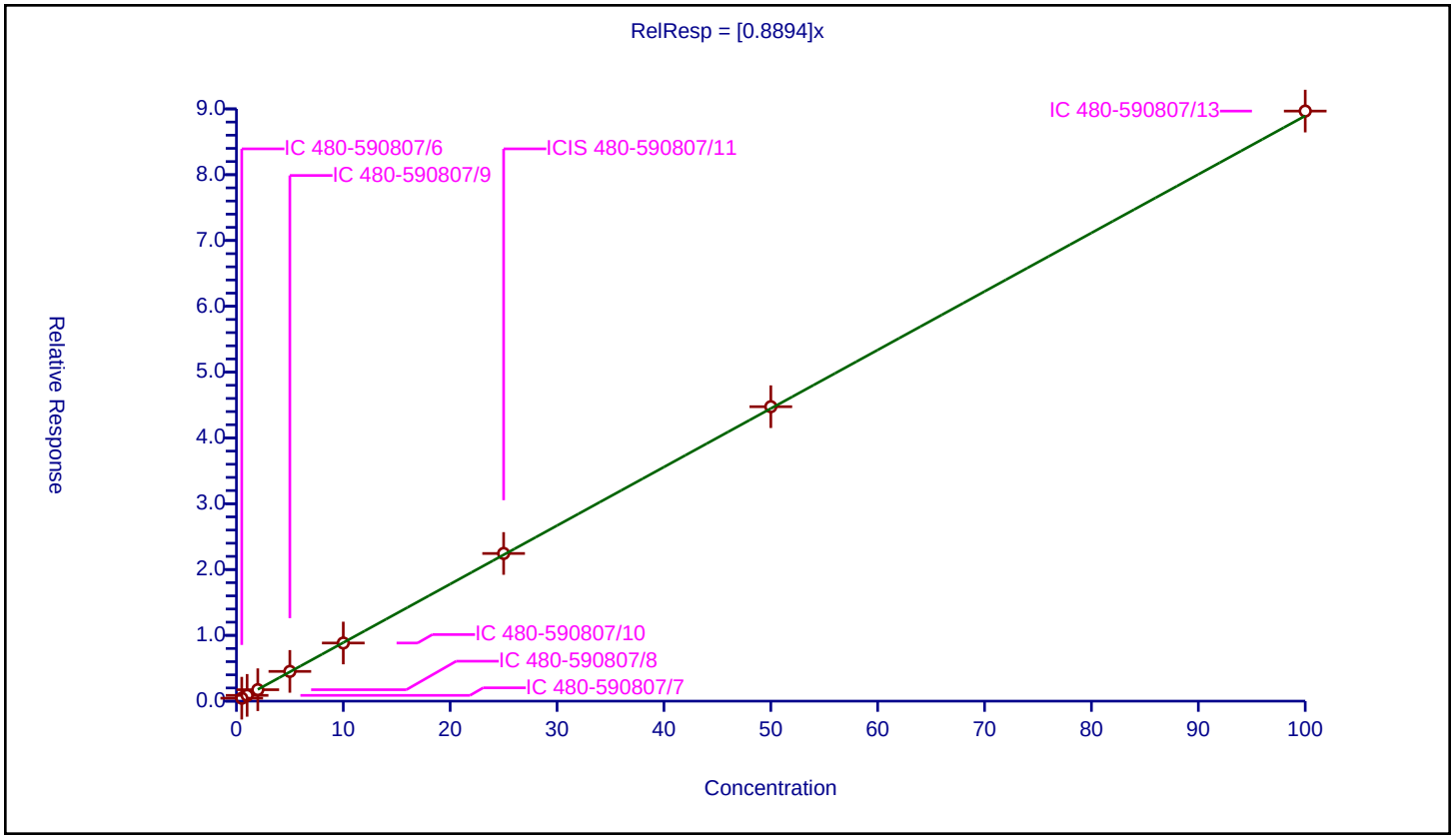
Curve Coefficients

Intercept:	0
Slope:	0.8894

Error Coefficients

Standard Error:	549000
Relative Standard Error:	1.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.446515	25.0	308668.0	0.893031	Y
2	IC 480-590807/7	1.0	0.878006	25.0	290801.0	0.878006	Y
3	IC 480-590807/8	2.0	1.736746	25.0	329078.0	0.868373	Y
4	IC 480-590807/9	5.0	4.517086	25.0	335194.0	0.903417	Y
5	IC 480-590807/10	10.0	8.831661	25.0	324636.0	0.883166	Y
6	ICIS 480-590807/11	25.0	22.441875	25.0	324300.0	0.897675	Y
7	IC 480-590807/12	50.0	44.74448	25.0	326471.0	0.89489	Y
8	IC 480-590807/13	100.0	89.667985	25.0	359758.0	0.89668	Y



Calibration / N-Propylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

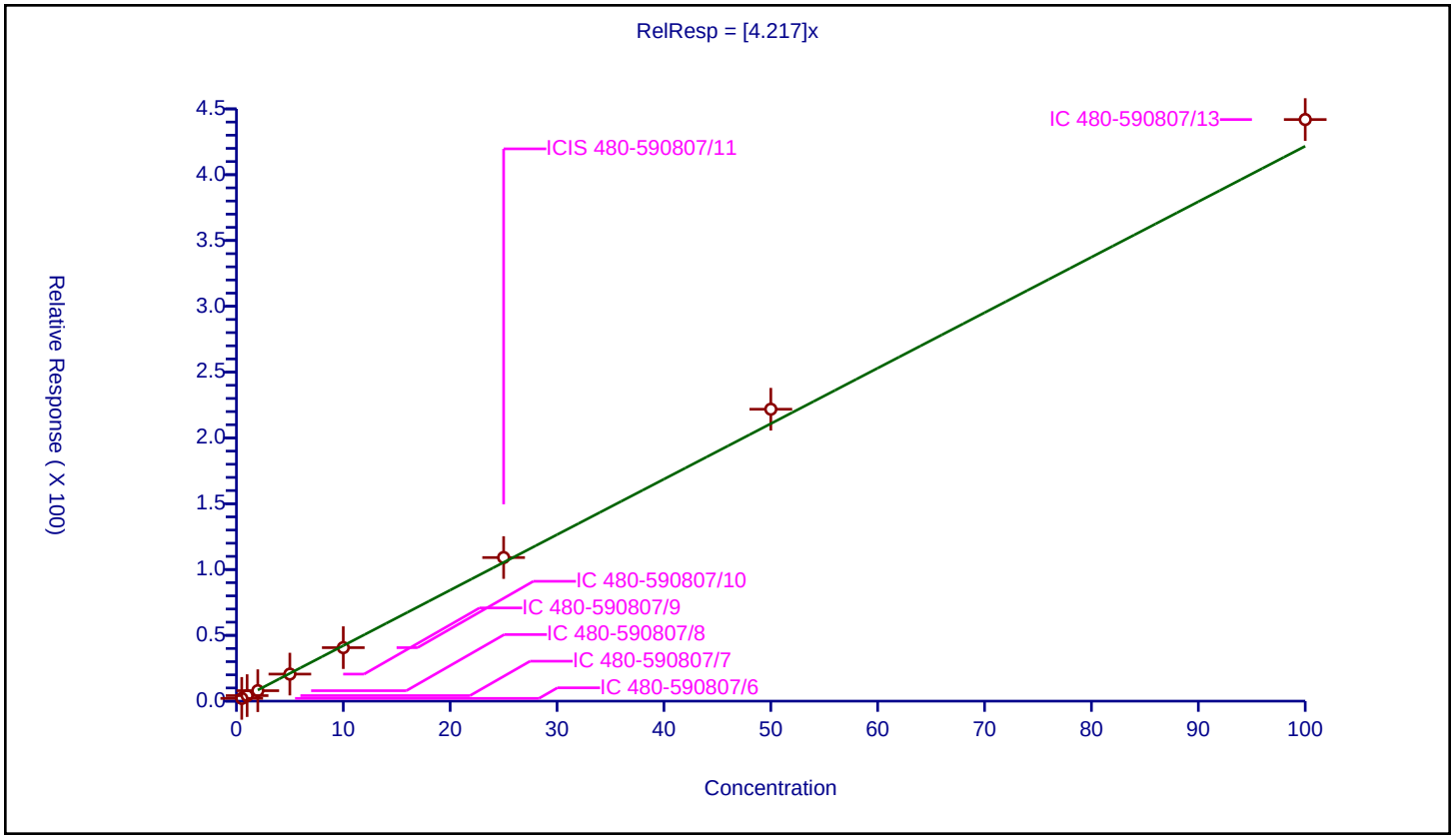
Curve Coefficients

Intercept:	0
Slope:	4.217

Error Coefficients

Standard Error:	2700000
Relative Standard Error:	4.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	2.086141	25.0	308668.0	4.172282	Y
2	IC 480-590807/7	1.0	4.191526	25.0	290801.0	4.191526	Y
3	IC 480-590807/8	2.0	7.950319	25.0	329078.0	3.975159	Y
4	IC 480-590807/9	5.0	20.558617	25.0	335194.0	4.111723	Y
5	IC 480-590807/10	10.0	40.640671	25.0	324636.0	4.064067	Y
6	ICIS 480-590807/11	25.0	109.099368	25.0	324300.0	4.363975	Y
7	IC 480-590807/12	50.0	221.807986	25.0	326471.0	4.43616	Y
8	IC 480-590807/13	100.0	441.89615	25.0	359758.0	4.418961	Y



Calibration / 1,2,3-Trichloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

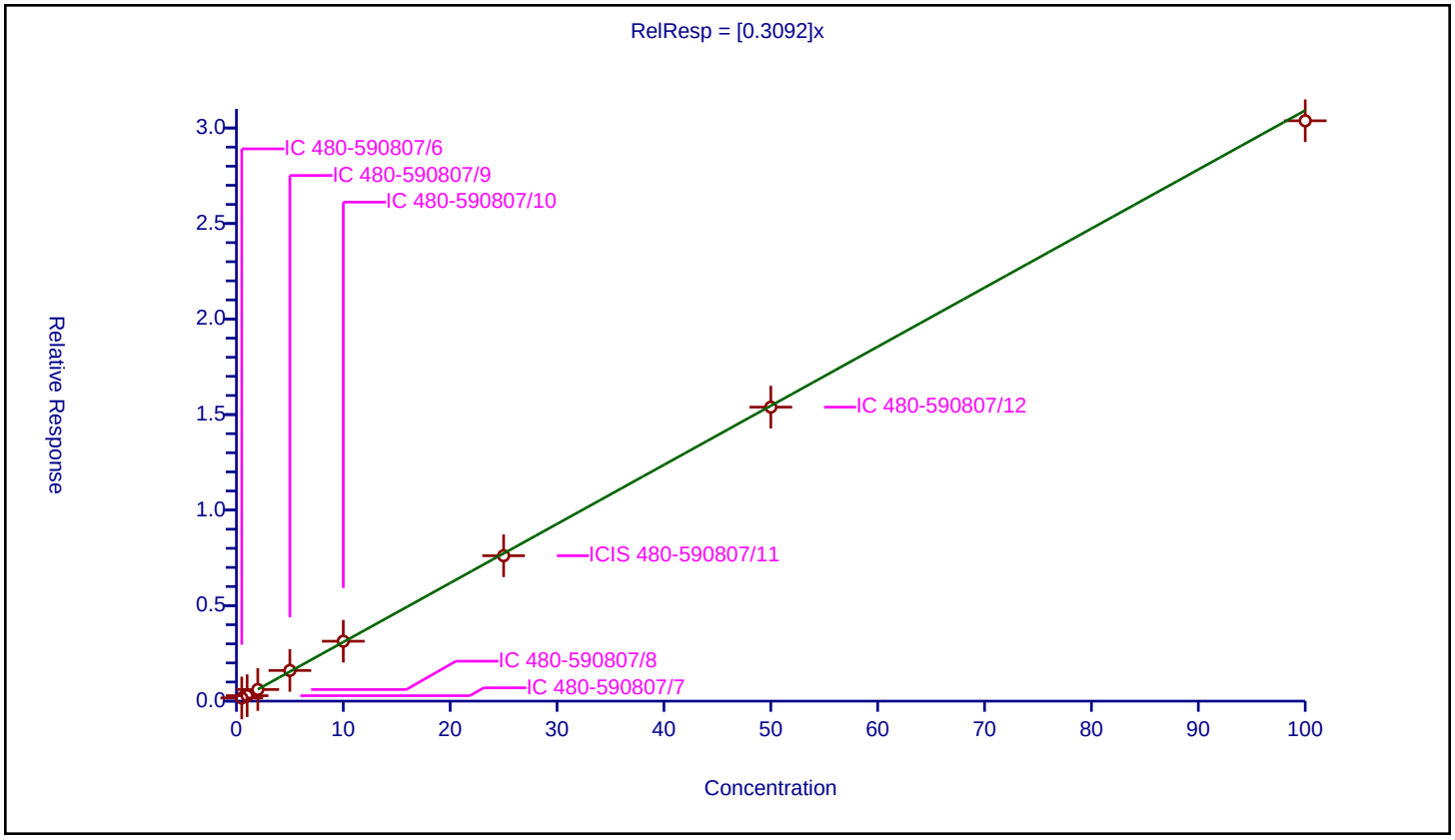
Curve Coefficients

Intercept:	0
Slope:	0.3092

Error Coefficients

Standard Error:	186000
Relative Standard Error:	4.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.166846	25.0	308668.0	0.333692	Y
2	IC 480-590807/7	1.0	0.285419	25.0	290801.0	0.285419	Y
3	IC 480-590807/8	2.0	0.607911	25.0	329078.0	0.303955	Y
4	IC 480-590807/9	5.0	1.604891	25.0	335194.0	0.320978	Y
5	IC 480-590807/10	10.0	3.135666	25.0	324636.0	0.313567	Y
6	ICIS 480-590807/11	25.0	7.611317	25.0	324300.0	0.304453	Y
7	IC 480-590807/12	50.0	15.38858	25.0	326471.0	0.307772	Y
8	IC 480-590807/13	100.0	30.378894	25.0	359758.0	0.303789	Y



Calibration / trans-1,4-Dichloro-2-butene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

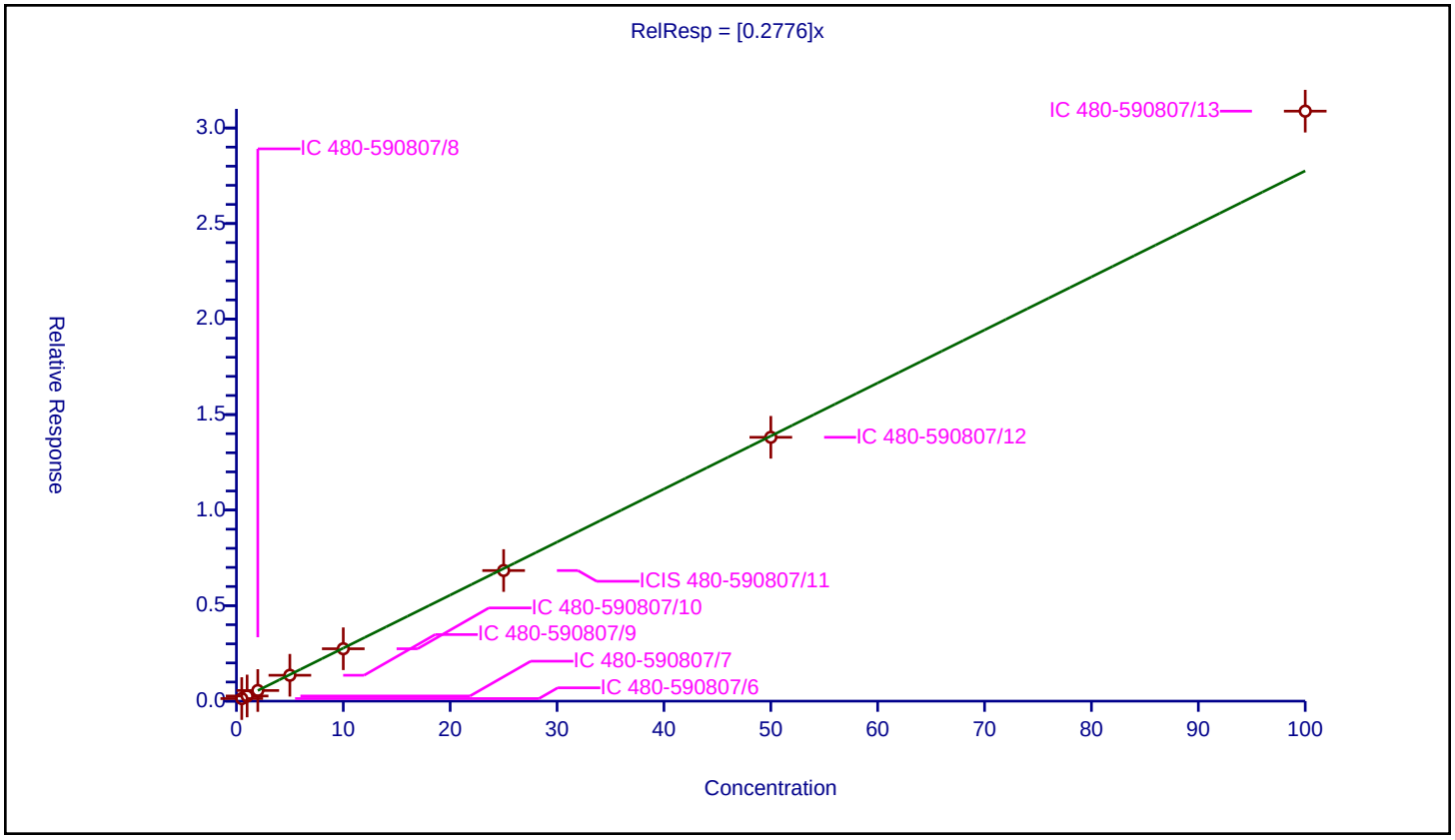
Curve Coefficients

Intercept:	0
Slope:	0.2776

Error Coefficients

Standard Error:	185000
Relative Standard Error:	4.7
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.134611	25.0	308668.0	0.269221	Y
2	IC 480-590807/7	1.0	0.26917	25.0	290801.0	0.26917	Y
3	IC 480-590807/8	2.0	0.557011	25.0	329078.0	0.278505	Y
4	IC 480-590807/9	5.0	1.35444	25.0	335194.0	0.270888	Y
5	IC 480-590807/10	10.0	2.742148	25.0	324636.0	0.274215	Y
6	ICIS 480-590807/11	25.0	6.83634	25.0	324300.0	0.273454	Y
7	IC 480-590807/12	50.0	13.810874	25.0	326471.0	0.276217	Y
8	IC 480-590807/13	100.0	30.881732	25.0	359758.0	0.308817	Y



Calibration / 2-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

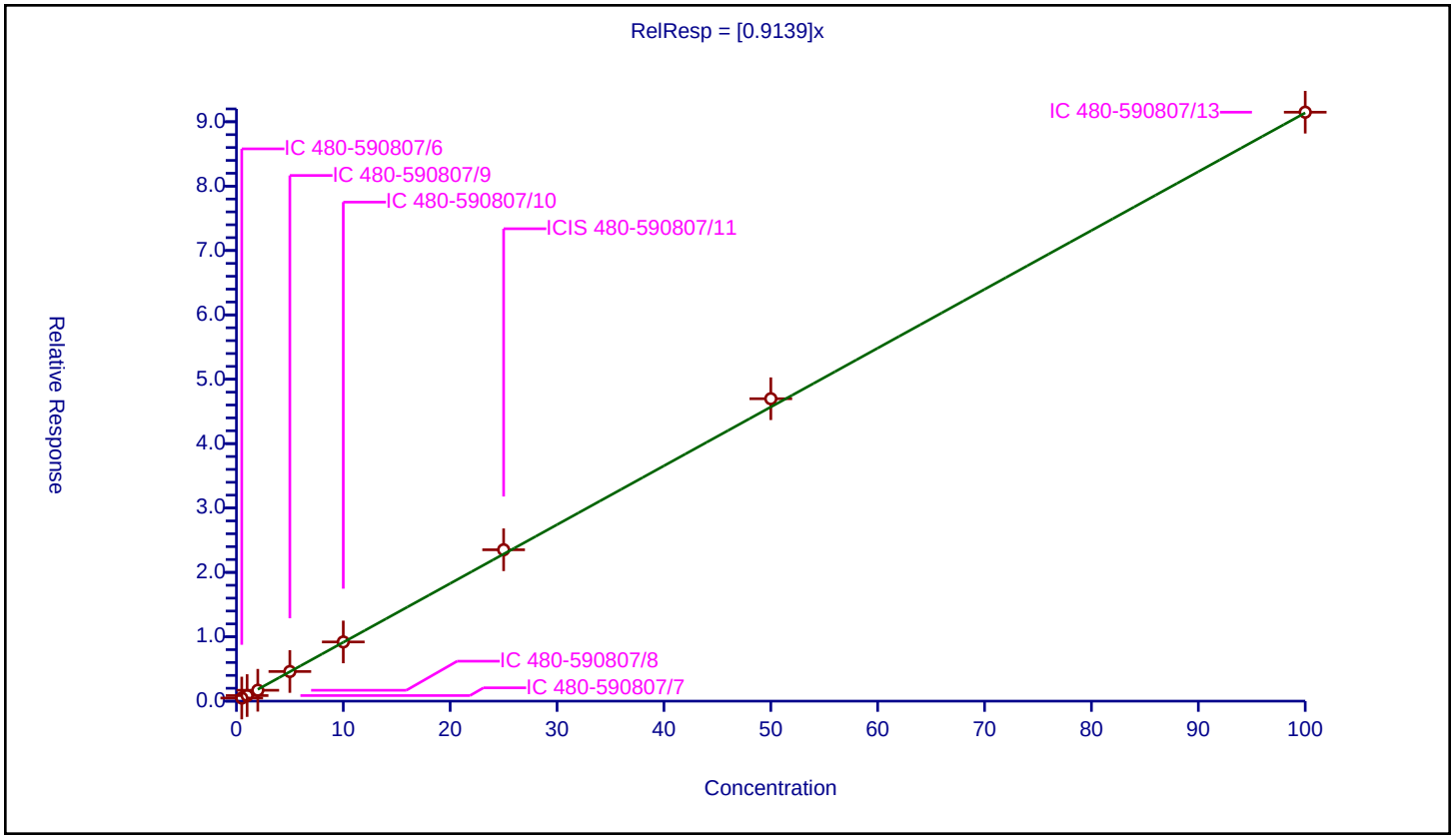
Curve Coefficients

Intercept:	0
Slope:	0.9139

Error Coefficients

Standard Error:	563000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.482071	25.0	308668.0	0.964143	Y
2	IC 480-590807/7	1.0	0.867604	25.0	290801.0	0.867604	Y
3	IC 480-590807/8	2.0	1.688354	25.0	329078.0	0.844177	Y
4	IC 480-590807/9	5.0	4.603304	25.0	335194.0	0.920661	Y
5	IC 480-590807/10	10.0	9.19553	25.0	324636.0	0.919553	Y
6	ICIS 480-590807/11	25.0	23.513414	25.0	324300.0	0.940537	Y
7	IC 480-590807/12	50.0	46.976454	25.0	326471.0	0.939529	Y
8	IC 480-590807/13	100.0	91.488445	25.0	359758.0	0.914884	Y



Calibration / 1,3,5-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

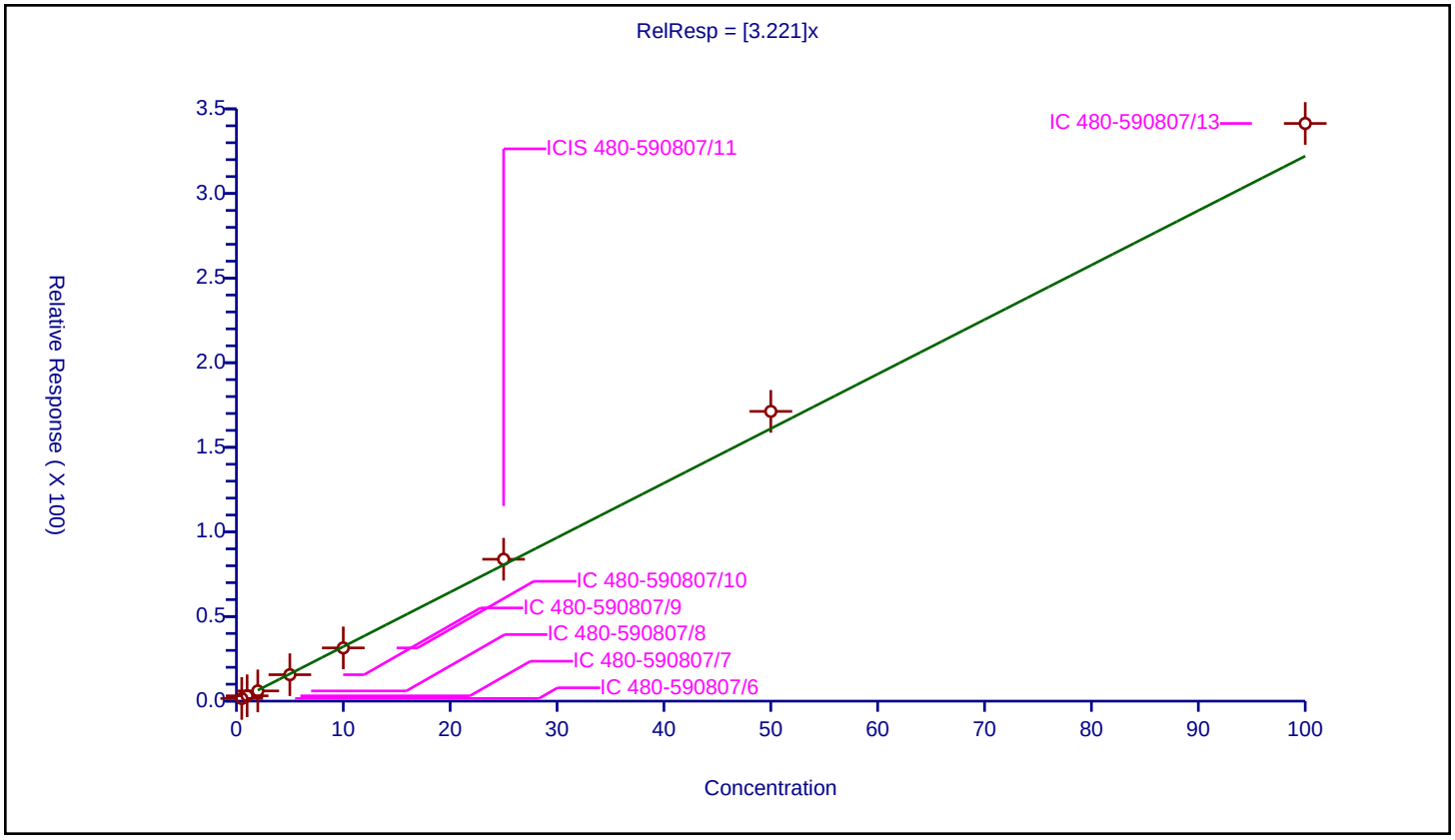
Curve Coefficients

Intercept:	0
Slope:	3.221

Error Coefficients

Standard Error:	2090000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.577909	25.0	308668.0	3.155818	Y
2	IC 480-590807/7	1.0	3.132641	25.0	290801.0	3.132641	Y
3	IC 480-590807/8	2.0	6.031169	25.0	329078.0	3.015584	Y
4	IC 480-590807/9	5.0	15.629382	25.0	335194.0	3.125876	Y
5	IC 480-590807/10	10.0	31.463624	25.0	324636.0	3.146362	Y
6	ICIS 480-590807/11	25.0	83.858079	25.0	324300.0	3.354323	Y
7	IC 480-590807/12	50.0	171.236266	25.0	326471.0	3.424725	Y
8	IC 480-590807/13	100.0	341.388169	25.0	359758.0	3.413882	Y



Calibration / 4-Chlorotoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

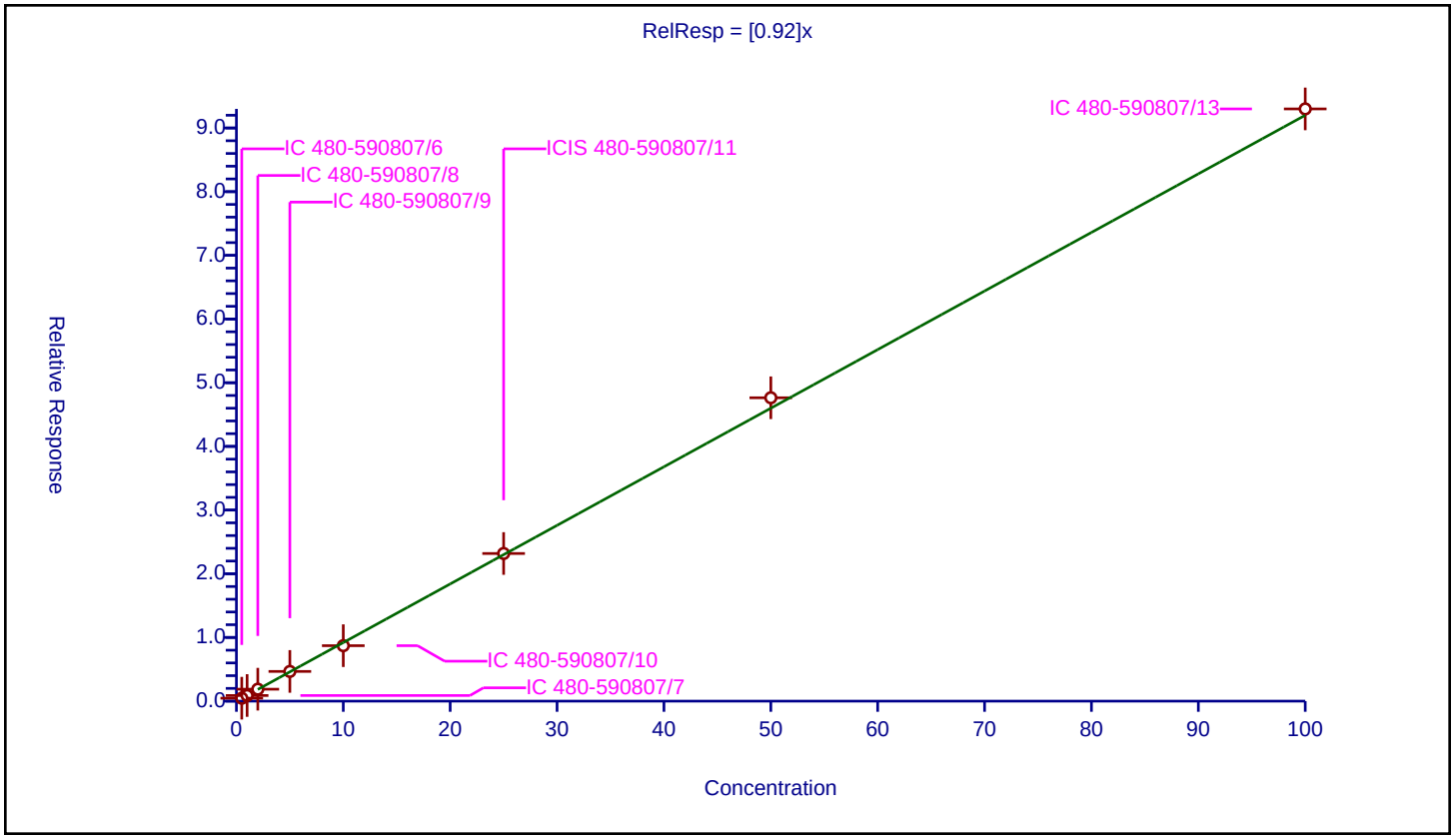
Curve Coefficients

Intercept:	0
Slope:	0.92

Error Coefficients

Standard Error:	571000
Relative Standard Error:	3.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.461175	25.0	308668.0	0.92235	Y
2	IC 480-590807/7	1.0	0.885399	25.0	290801.0	0.885399	Y
3	IC 480-590807/8	2.0	1.876151	25.0	329078.0	0.938075	Y
4	IC 480-590807/9	5.0	4.66588	25.0	335194.0	0.933176	Y
5	IC 480-590807/10	10.0	8.709216	25.0	324636.0	0.870922	Y
6	ICIS 480-590807/11	25.0	23.18432	25.0	324300.0	0.927373	Y
7	IC 480-590807/12	50.0	47.639147	25.0	326471.0	0.952783	Y
8	IC 480-590807/13	100.0	92.99411	25.0	359758.0	0.929941	Y



Calibration / tert-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

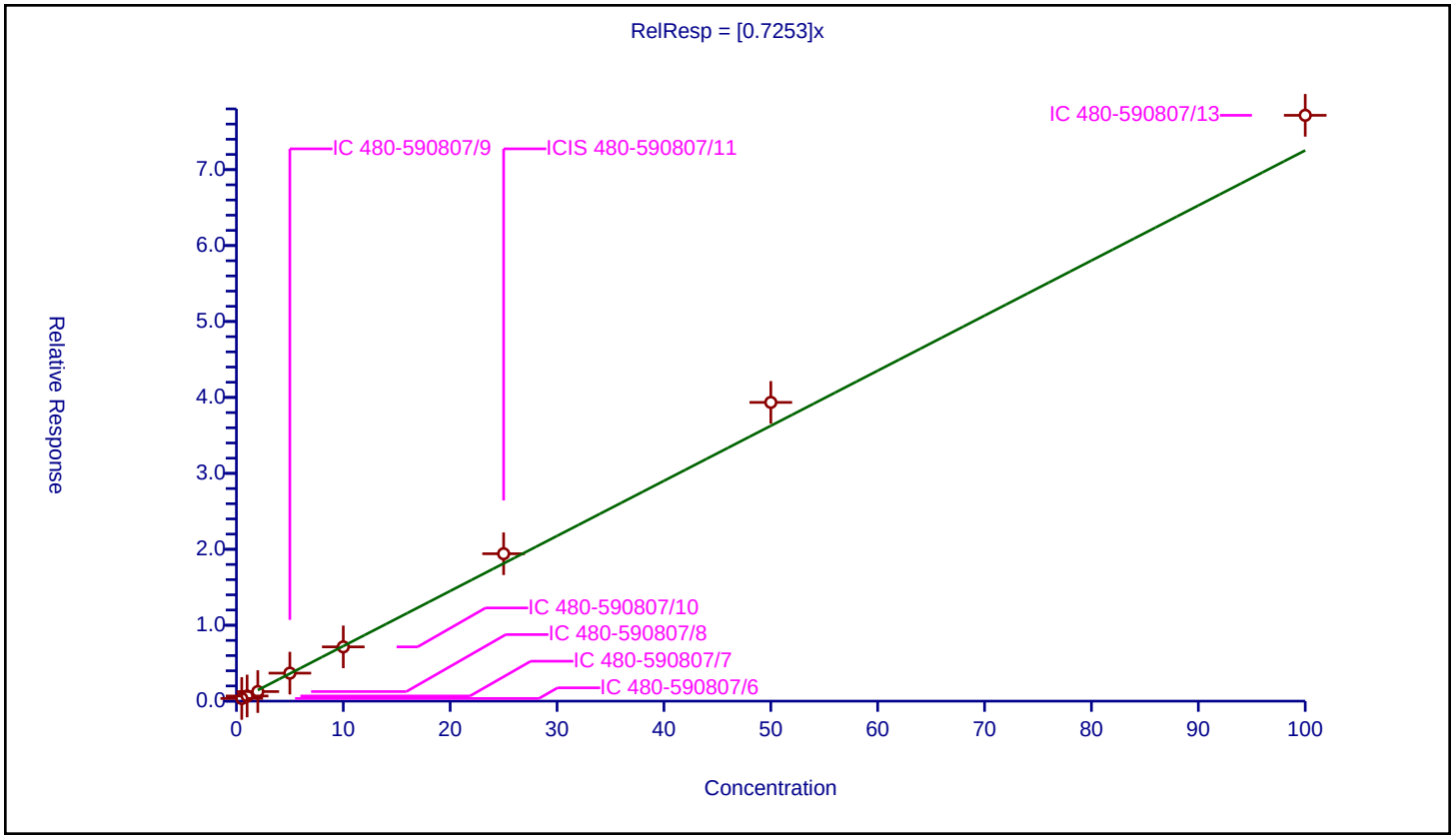
Curve Coefficients

Intercept:	0
Slope:	0.7253

Error Coefficients

Standard Error:	474000
Relative Standard Error:	7.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.353292	25.0	308668.0	0.706584	Y
2	IC 480-590807/7	1.0	0.677181	25.0	290801.0	0.677181	Y
3	IC 480-590807/8	2.0	1.262543	25.0	329078.0	0.631271	Y
4	IC 480-590807/9	5.0	3.689431	25.0	335194.0	0.737886	Y
5	IC 480-590807/10	10.0	7.146697	25.0	324636.0	0.71467	Y
6	ICIS 480-590807/11	25.0	19.412273	25.0	324300.0	0.776491	Y
7	IC 480-590807/12	50.0	39.345685	25.0	326471.0	0.786914	Y
8	IC 480-590807/13	100.0	77.154017	25.0	359758.0	0.77154	Y



Calibration / 1,2,4-Trimethylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

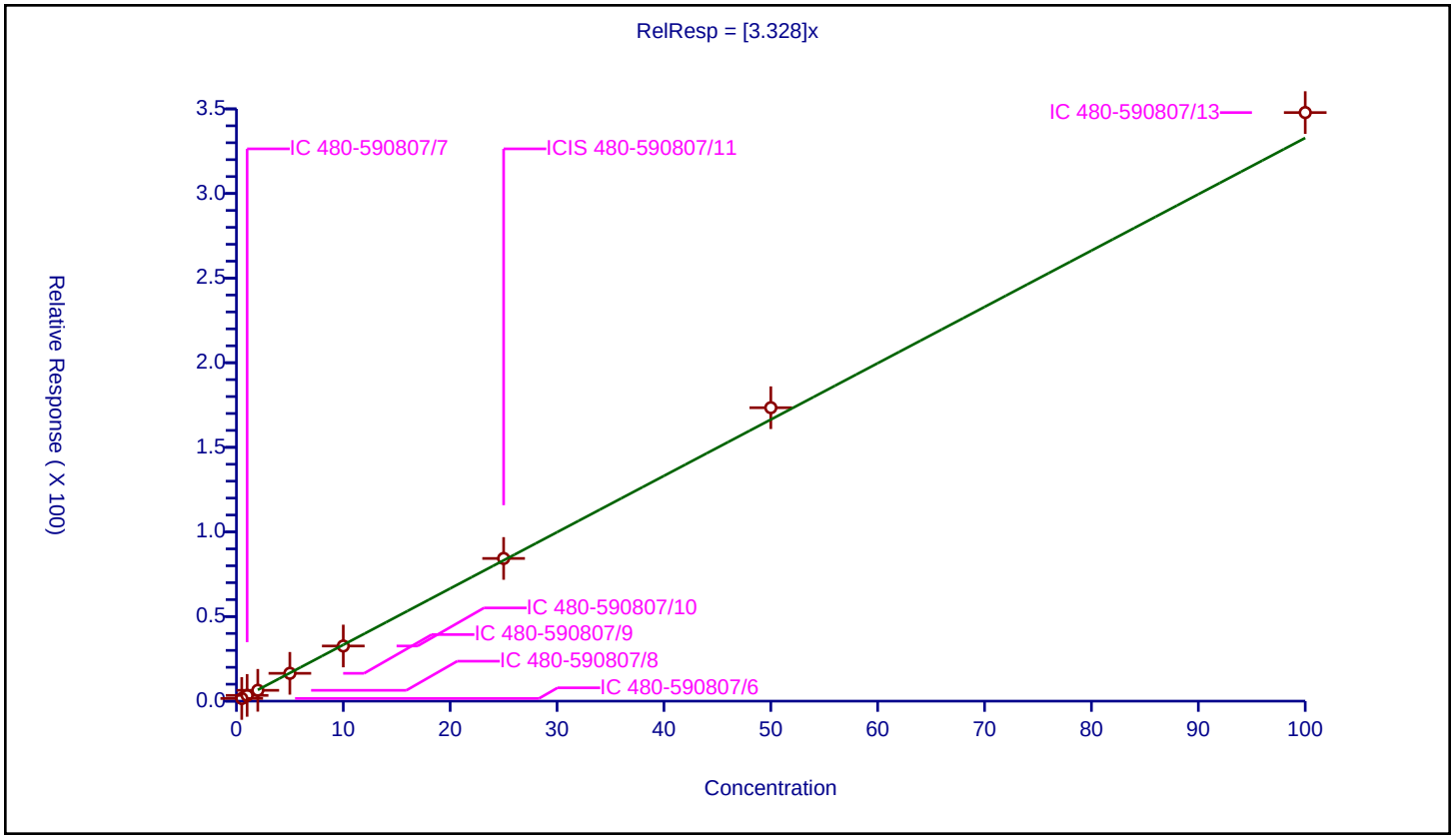
Curve Coefficients

Intercept:	0
Slope:	3.328

Error Coefficients

Standard Error:	2130000
Relative Standard Error:	3.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.583659	25.0	308668.0	3.167319	Y
2	IC 480-590807/7	1.0	3.39158	25.0	290801.0	3.39158	Y
3	IC 480-590807/8	2.0	6.398635	25.0	329078.0	3.199317	Y
4	IC 480-590807/9	5.0	16.446595	25.0	335194.0	3.289319	Y
5	IC 480-590807/10	10.0	32.594121	25.0	324636.0	3.259412	Y
6	ICIS 480-590807/11	25.0	84.319149	25.0	324300.0	3.372766	Y
7	IC 480-590807/12	50.0	173.413182	25.0	326471.0	3.468264	Y
8	IC 480-590807/13	100.0	347.832362	25.0	359758.0	3.478324	Y



Calibration / sec-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

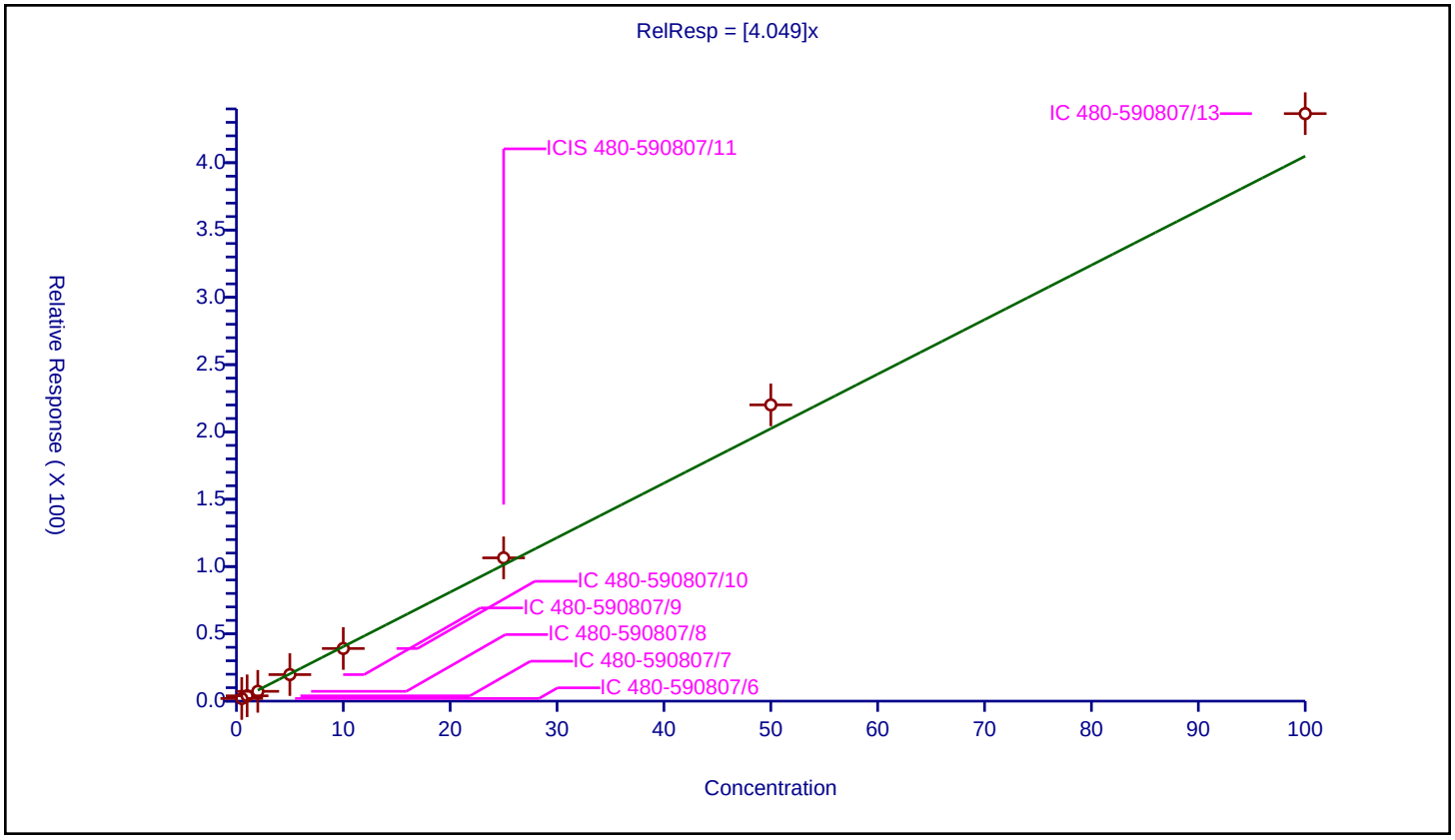
Curve Coefficients

Intercept:	0
Slope:	4.049

Error Coefficients

Standard Error:	2670000
Relative Standard Error:	6.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.961898	25.0	308668.0	3.923795	Y
2	IC 480-590807/7	1.0	3.944106	25.0	290801.0	3.944106	Y
3	IC 480-590807/8	2.0	7.283608	25.0	329078.0	3.641804	Y
4	IC 480-590807/9	5.0	19.726039	25.0	335194.0	3.945208	Y
5	IC 480-590807/10	10.0	39.118582	25.0	324636.0	3.911858	Y
6	ICIS 480-590807/11	25.0	106.438945	25.0	324300.0	4.257558	Y
7	IC 480-590807/12	50.0	220.104466	25.0	326471.0	4.402089	Y
8	IC 480-590807/13	100.0	436.468195	25.0	359758.0	4.364682	Y



Calibration / 1,3-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

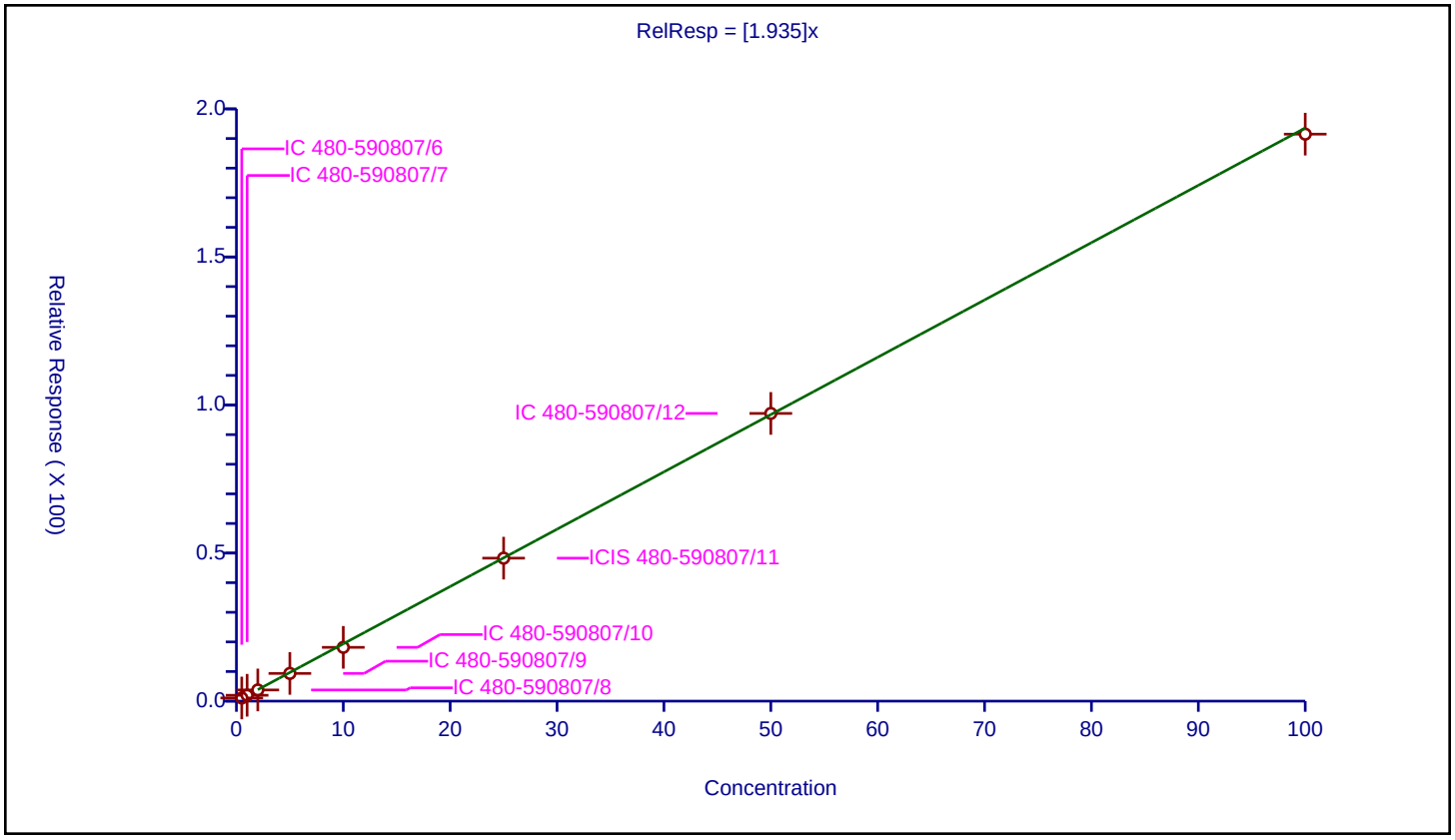
Curve Coefficients

Intercept:	0
Slope:	1.935

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	4.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.068786	25.0	308668.0	2.137572	Y
2	IC 480-590807/7	1.0	1.980134	25.0	290801.0	1.980134	Y
3	IC 480-590807/8	2.0	3.776004	25.0	329078.0	1.888002	Y
4	IC 480-590807/9	5.0	9.358759	25.0	335194.0	1.871752	Y
5	IC 480-590807/10	10.0	18.163574	25.0	324636.0	1.816357	Y
6	ICIS 480-590807/11	25.0	48.286772	25.0	324300.0	1.931471	Y
7	IC 480-590807/12	50.0	97.155567	25.0	326471.0	1.943111	Y
8	IC 480-590807/13	100.0	191.473087	25.0	359758.0	1.914731	Y



Calibration / 4-Isopropyltoluene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

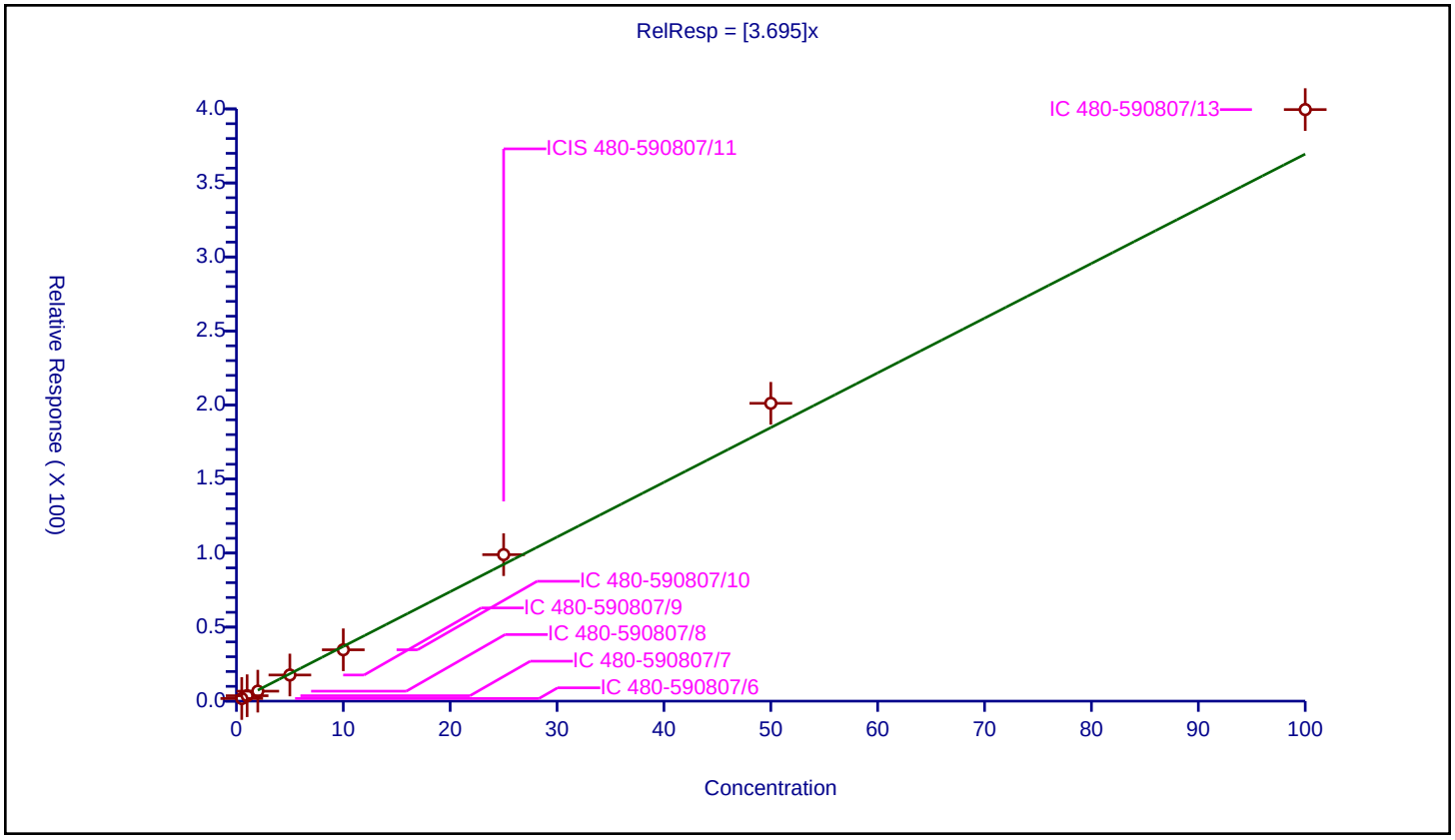
Curve Coefficients

Intercept:	0
Slope:	3.695

Error Coefficients

Standard Error:	2450000
Relative Standard Error:	7.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.779582	25.0	308668.0	3.559164	Y
2	IC 480-590807/7	1.0	3.652928	25.0	290801.0	3.652928	Y
3	IC 480-590807/8	2.0	6.743158	25.0	329078.0	3.371579	Y
4	IC 480-590807/9	5.0	17.656491	25.0	335194.0	3.531298	Y
5	IC 480-590807/10	10.0	34.689083	25.0	324636.0	3.468908	Y
6	ICIS 480-590807/11	25.0	98.934706	25.0	324300.0	3.957388	Y
7	IC 480-590807/12	50.0	201.161206	25.0	326471.0	4.023224	Y
8	IC 480-590807/13	100.0	399.534757	25.0	359758.0	3.995348	Y



Calibration / 1,4-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

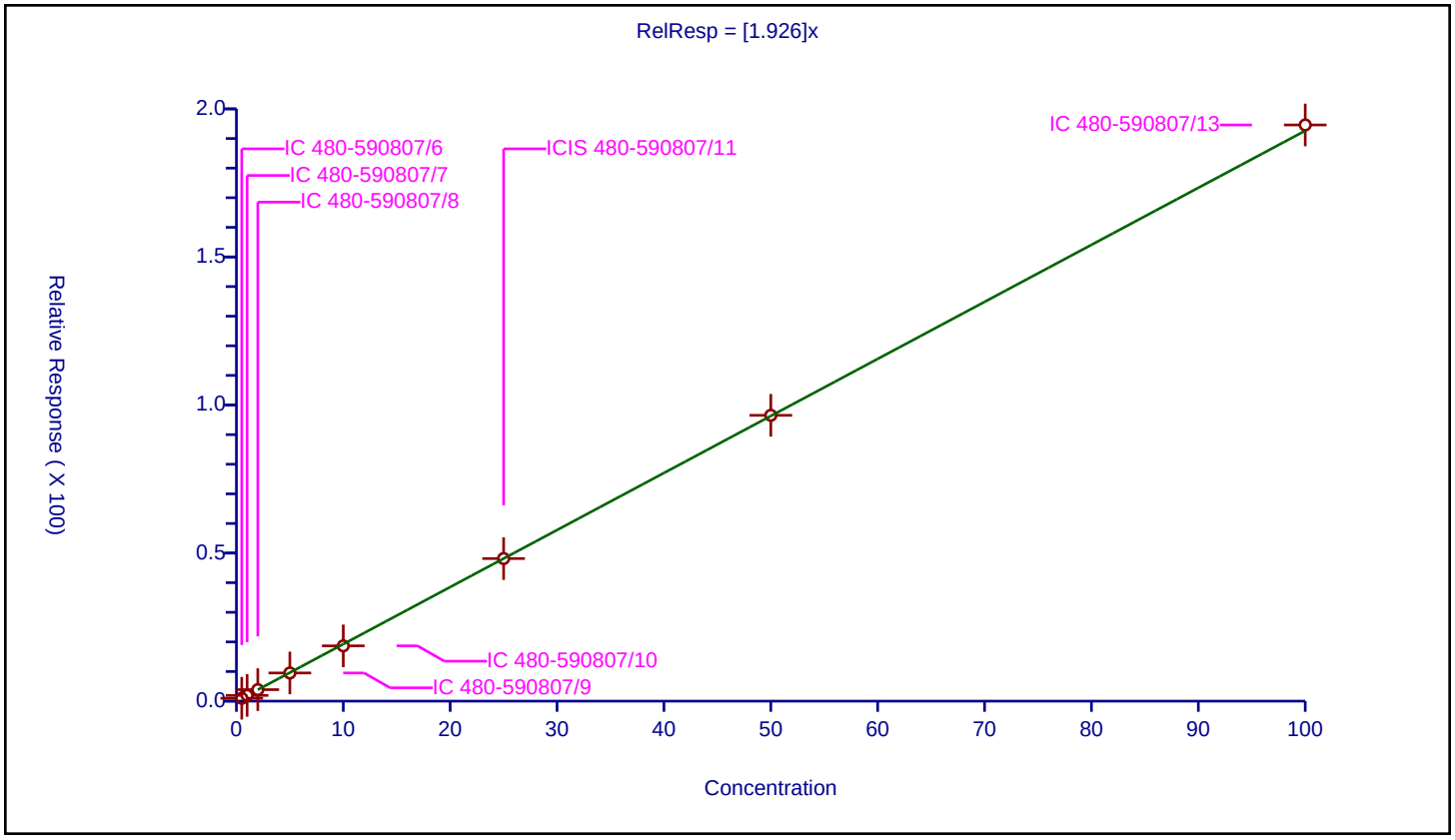
Curve Coefficients

Intercept:	0
Slope:	1.926

Error Coefficients

Standard Error:	1190000
Relative Standard Error:	1.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.979936	25.0	308668.0	1.959873	Y
2	IC 480-590807/7	1.0	1.938009	25.0	290801.0	1.938009	Y
3	IC 480-590807/8	2.0	3.880083	25.0	329078.0	1.940042	Y
4	IC 480-590807/9	5.0	9.509568	25.0	335194.0	1.901914	Y
5	IC 480-590807/10	10.0	18.670449	25.0	324636.0	1.867045	Y
6	ICIS 480-590807/11	25.0	48.154949	25.0	324300.0	1.926198	Y
7	IC 480-590807/12	50.0	96.52427	25.0	326471.0	1.930485	Y
8	IC 480-590807/13	100.0	194.57698	25.0	359758.0	1.94577	Y



Calibration / n-Butylbenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

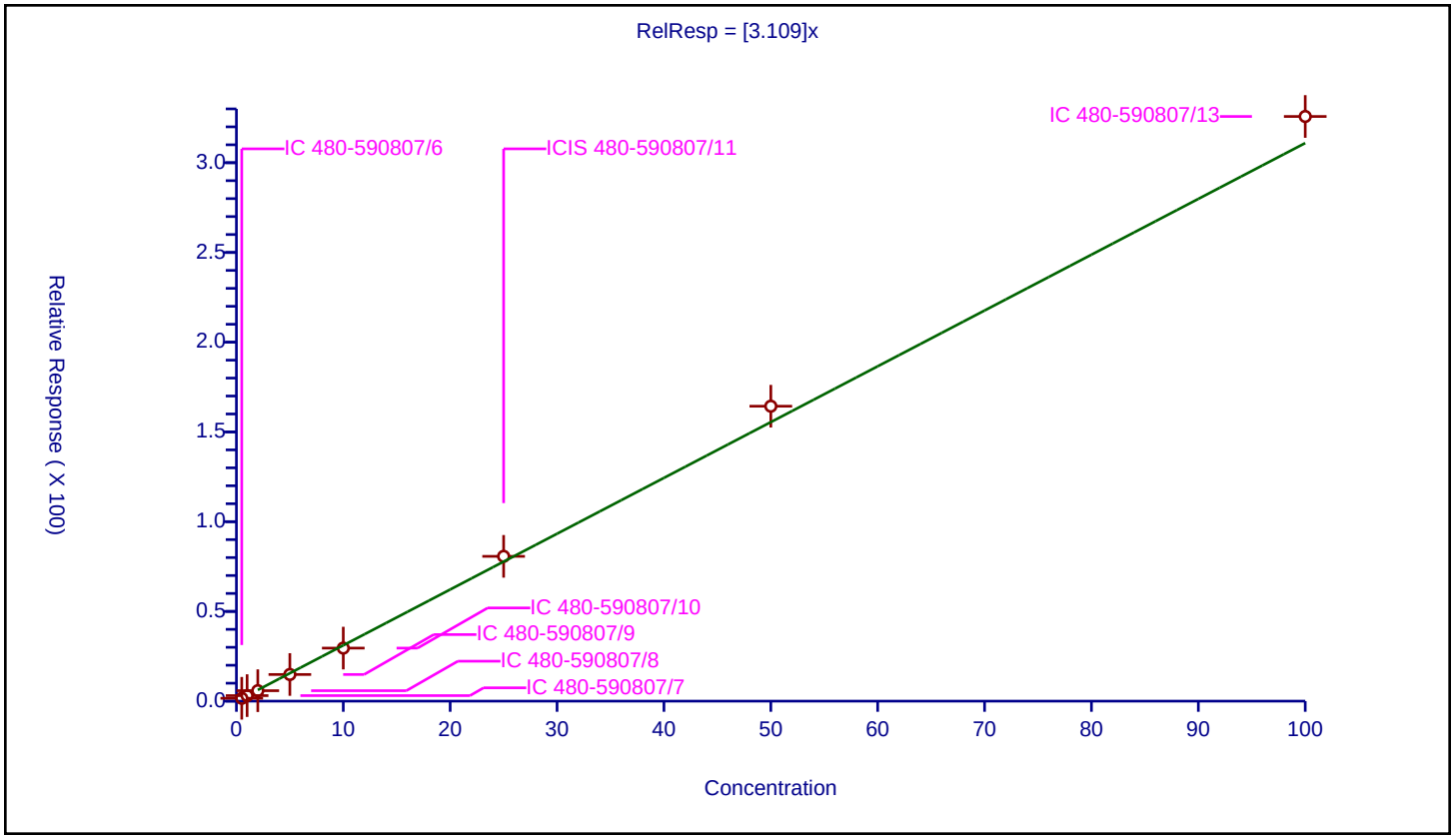
Curve Coefficients

Intercept:	0
Slope:	3.109

Error Coefficients

Standard Error:	2000000
Relative Standard Error:	4.8
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.59516	25.0	308668.0	3.190321	Y
2	IC 480-590807/7	1.0	3.074955	25.0	290801.0	3.074955	Y
3	IC 480-590807/8	2.0	5.824379	25.0	329078.0	2.91219	Y
4	IC 480-590807/9	5.0	14.851474	25.0	335194.0	2.970295	Y
5	IC 480-590807/10	10.0	29.561108	25.0	324636.0	2.956111	Y
6	ICIS 480-590807/11	25.0	80.683549	25.0	324300.0	3.227342	Y
7	IC 480-590807/12	50.0	164.338333	25.0	326471.0	3.286767	Y
8	IC 480-590807/13	100.0	325.774826	25.0	359758.0	3.257748	Y



Calibration / 1,2-Dichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

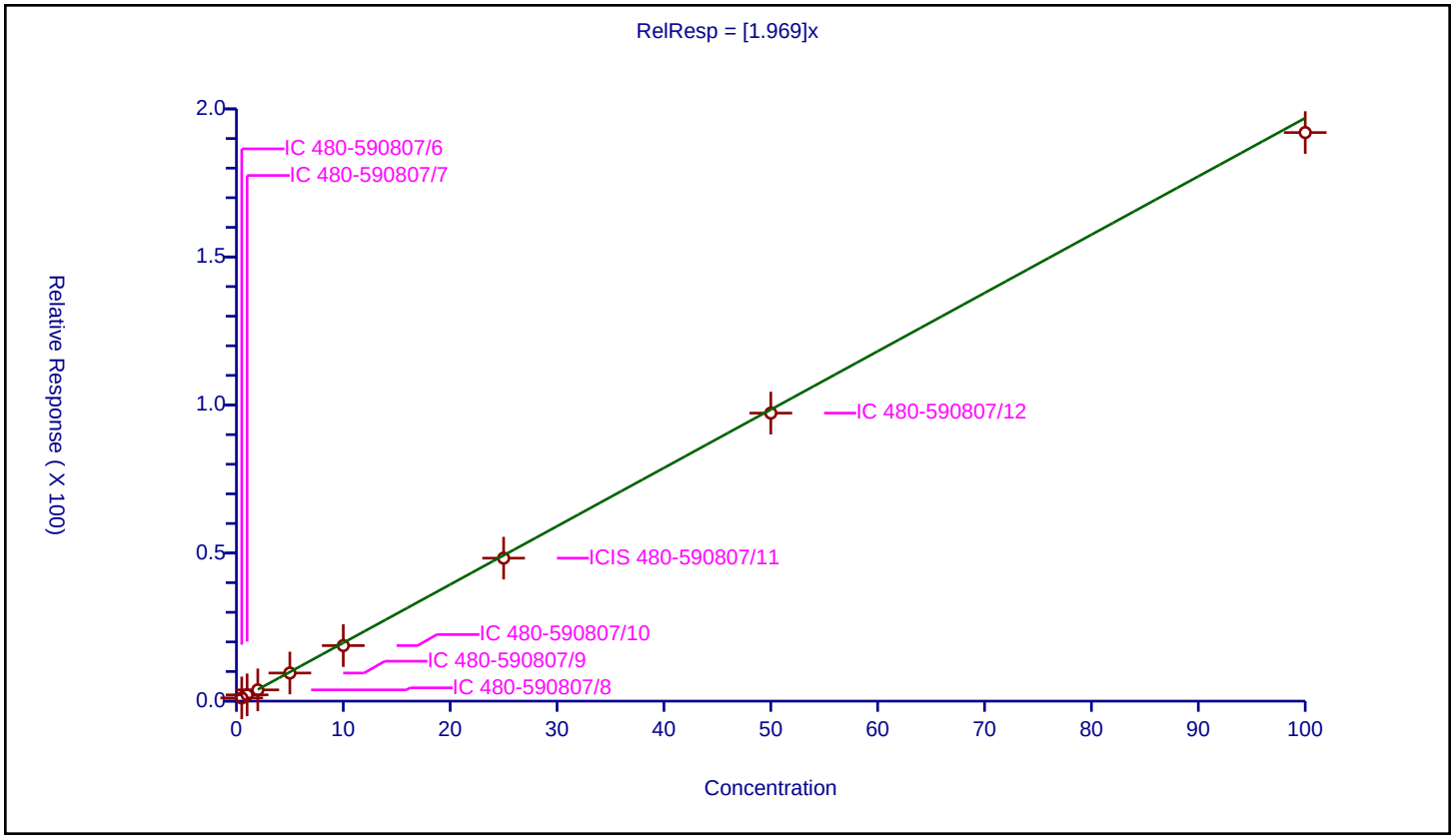
Curve Coefficients

Intercept:	0
Slope:	1.969

Error Coefficients

Standard Error:	1180000
Relative Standard Error:	5.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	1.080449	25.0	308668.0	2.160898	Y
2	IC 480-590807/7	1.0	2.119835	25.0	290801.0	2.119835	Y
3	IC 480-590807/8	2.0	3.799327	25.0	329078.0	1.899664	Y
4	IC 480-590807/9	5.0	9.494875	25.0	335194.0	1.898975	Y
5	IC 480-590807/10	10.0	18.761397	25.0	324636.0	1.87614	Y
6	ICIS 480-590807/11	25.0	48.287157	25.0	324300.0	1.931486	Y
7	IC 480-590807/12	50.0	97.266296	25.0	326471.0	1.945326	Y
8	IC 480-590807/13	100.0	192.004556	25.0	359758.0	1.920046	Y



Calibration / 1,2-Dibromo-3-Chloropropane

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

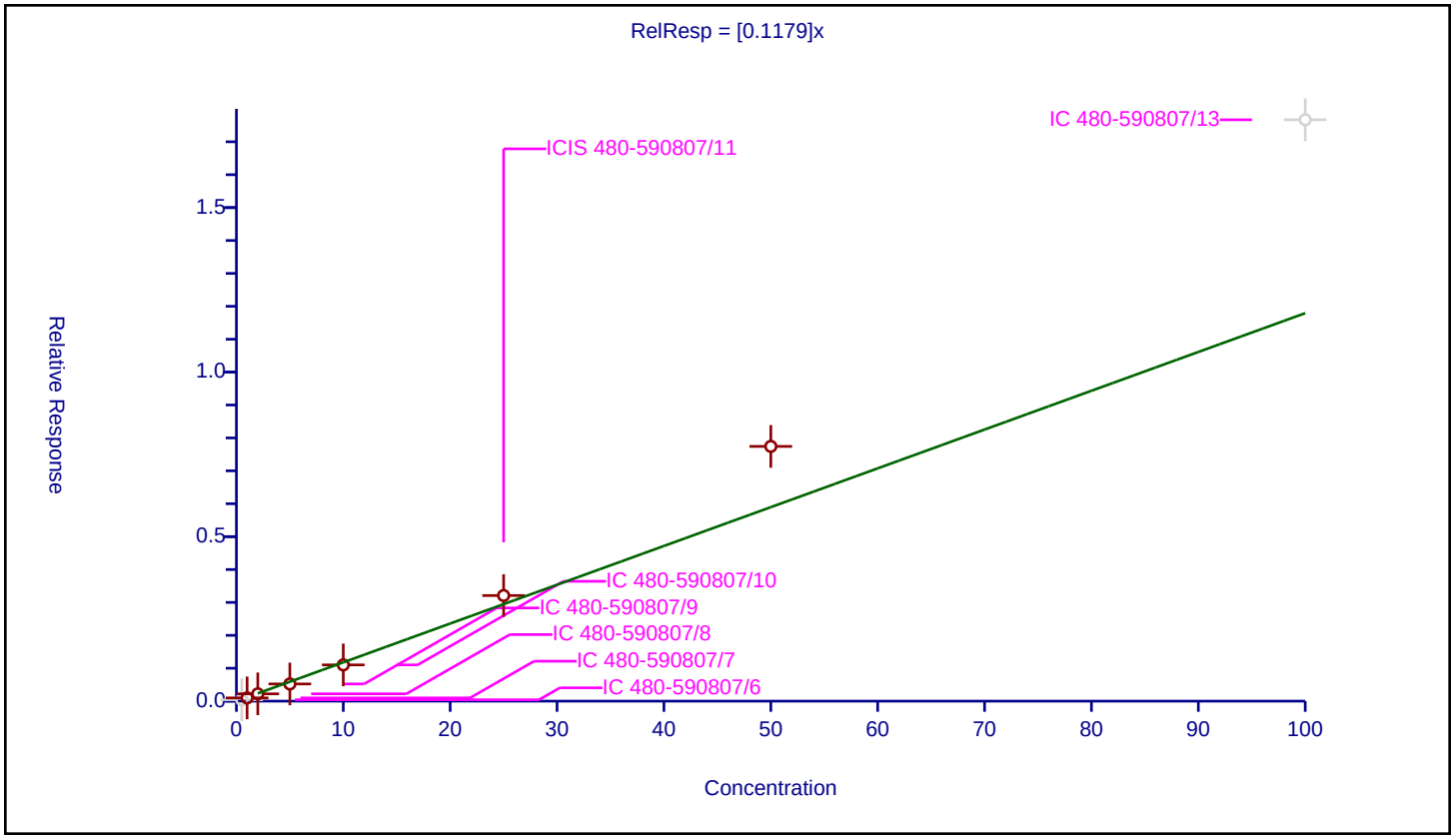
Curve Coefficients

Intercept:	0
Slope:	0.1179

Error Coefficients

Standard Error:	49400
Relative Standard Error:	17.5
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.962

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.041469	25.0	308668.0	0.082937	N
2	IC 480-590807/7	1.0	0.098521	25.0	290801.0	0.098521	Y
3	IC 480-590807/8	2.0	0.22206	25.0	329078.0	0.11103	Y
4	IC 480-590807/9	5.0	0.522906	25.0	335194.0	0.104581	Y
5	IC 480-590807/10	10.0	1.101079	25.0	324636.0	0.110108	Y
6	ICIS 480-590807/11	25.0	3.209914	25.0	324300.0	0.128397	Y
7	IC 480-590807/12	50.0	7.742112	25.0	326471.0	0.154842	Y
8	IC 480-590807/13	100.0	17.668613	25.0	359758.0	0.176686	N



Calibration / 1,2,4-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

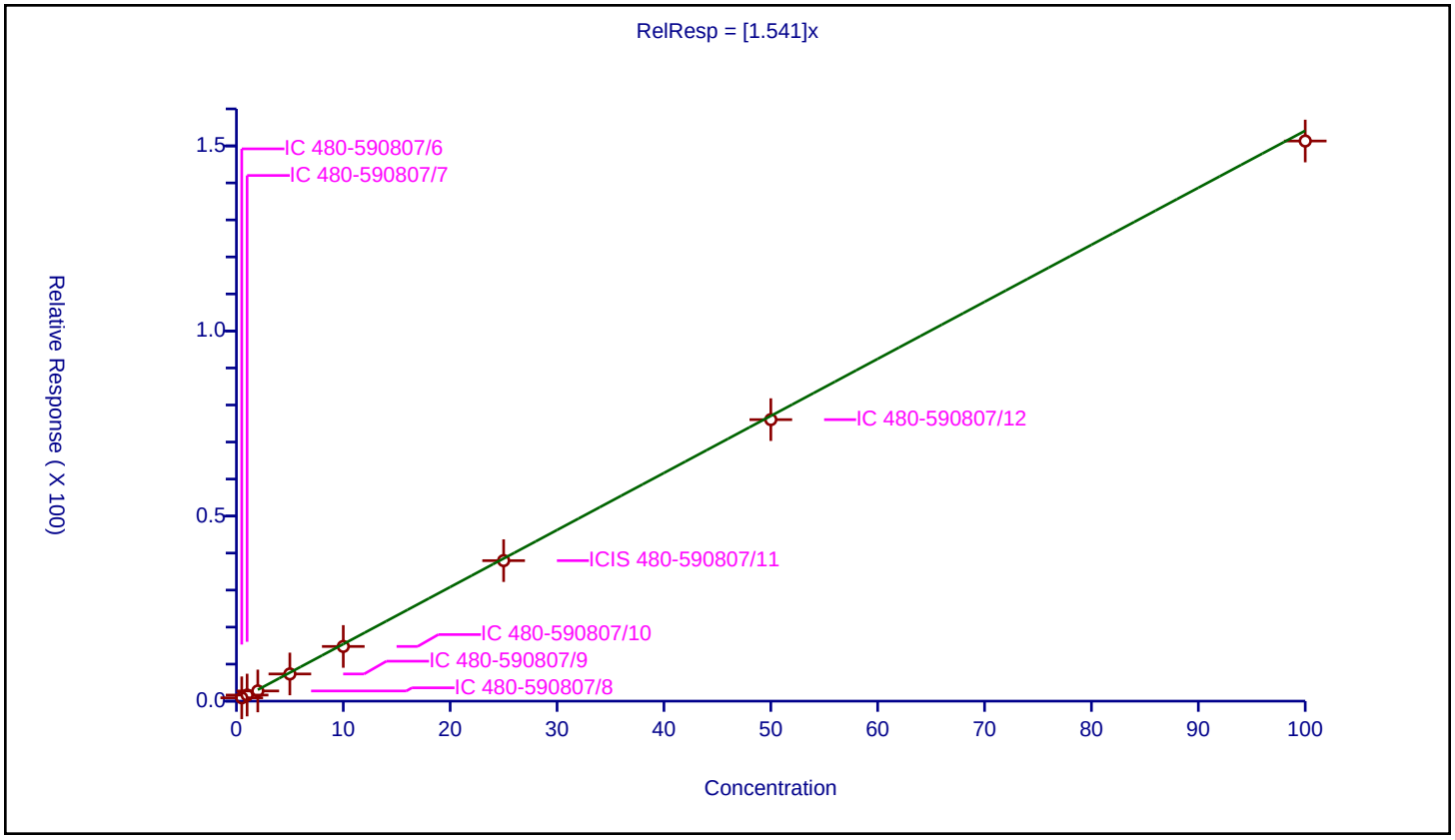
Curve Coefficients

Intercept:	0
Slope:	1.541

Error Coefficients

Standard Error:	927000
Relative Standard Error:	8.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.905504	25.0	308668.0	1.811007	Y
2	IC 480-590807/7	1.0	1.643564	25.0	290801.0	1.643564	Y
3	IC 480-590807/8	2.0	2.749348	25.0	329078.0	1.374674	Y
4	IC 480-590807/9	5.0	7.345	25.0	335194.0	1.469	Y
5	IC 480-590807/10	10.0	14.776704	25.0	324636.0	1.47767	Y
6	ICIS 480-590807/11	25.0	37.957678	25.0	324300.0	1.518307	Y
7	IC 480-590807/12	50.0	76.048562	25.0	326471.0	1.520971	Y
8	IC 480-590807/13	100.0	151.324501	25.0	359758.0	1.513245	Y



Calibration / Hexachlorobutadiene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

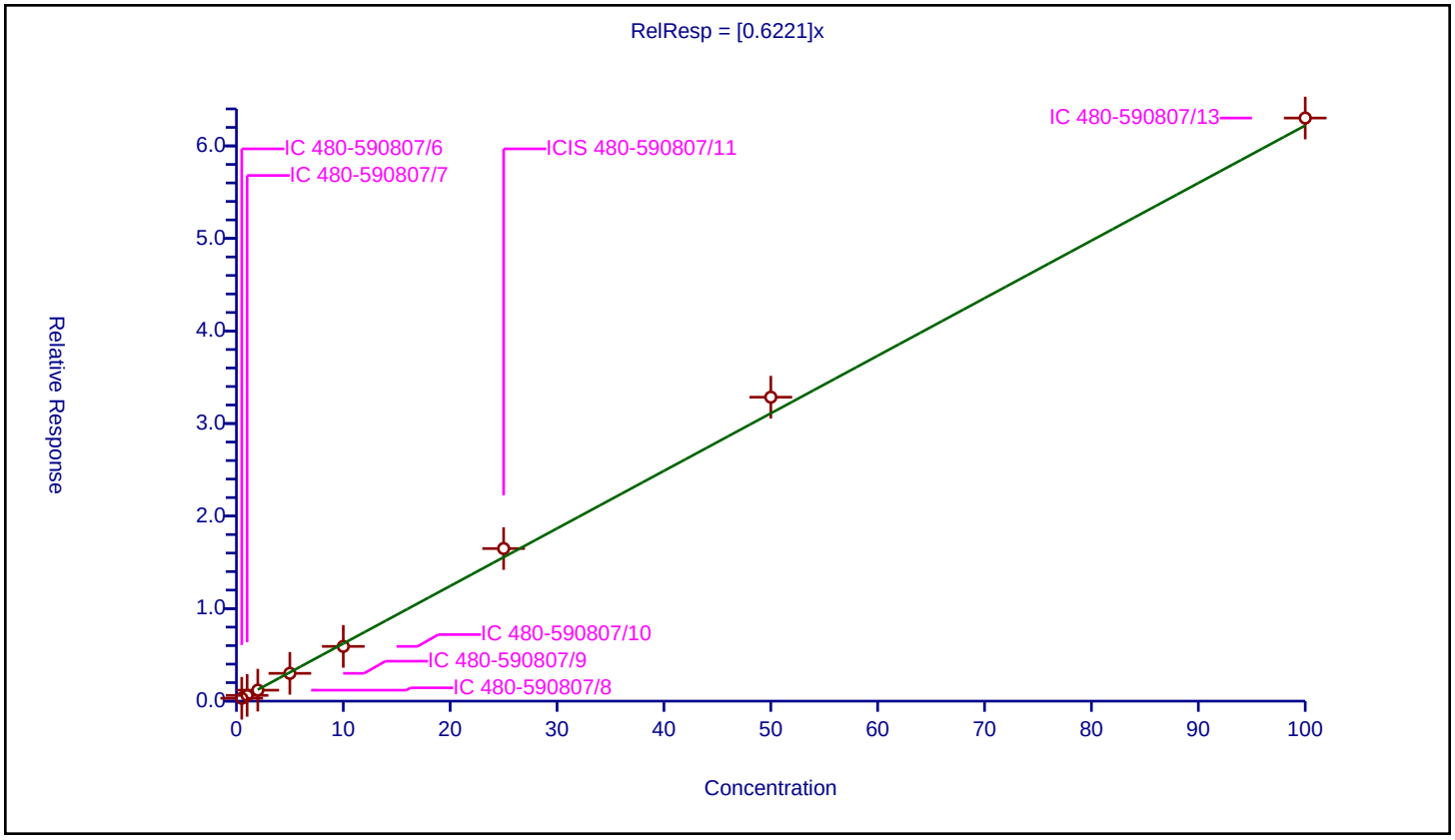
Curve Coefficients

Intercept:	0
Slope:	0.6221

Error Coefficients

Standard Error:	389000
Relative Standard Error:	4.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.311905	25.0	308668.0	0.623809	Y
2	IC 480-590807/7	1.0	0.622333	25.0	290801.0	0.622333	Y
3	IC 480-590807/8	2.0	1.183306	25.0	329078.0	0.591653	Y
4	IC 480-590807/9	5.0	3.002739	25.0	335194.0	0.600548	Y
5	IC 480-590807/10	10.0	5.915086	25.0	324636.0	0.591509	Y
6	ICIS 480-590807/11	25.0	16.48967	25.0	324300.0	0.659587	Y
7	IC 480-590807/12	50.0	32.847558	25.0	326471.0	0.656951	Y
8	IC 480-590807/13	100.0	63.013748	25.0	359758.0	0.630137	Y



Calibration / Naphthalene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

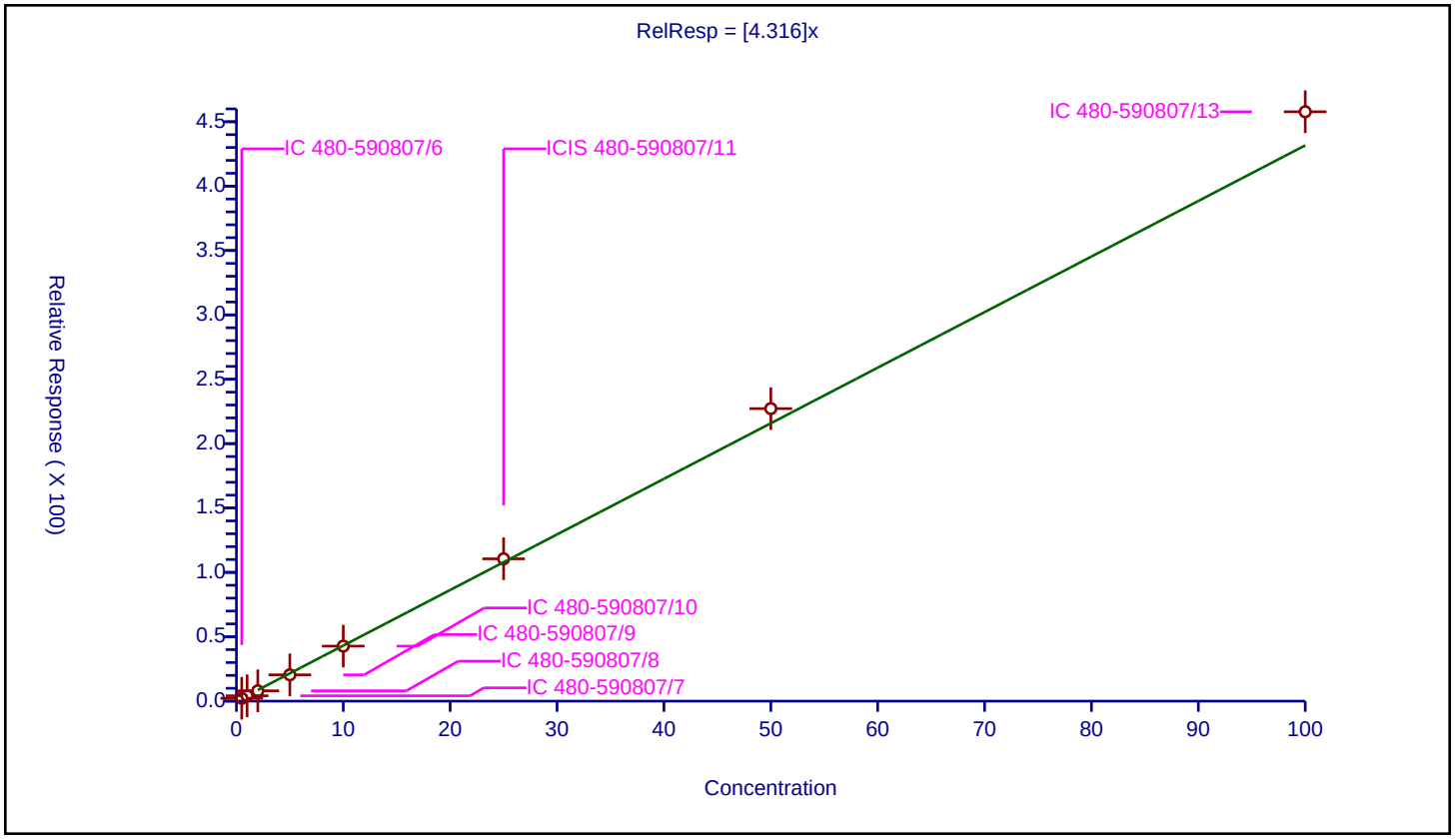
Curve Coefficients

Intercept:	0
Slope:	4.316

Error Coefficients

Standard Error:	2790000
Relative Standard Error:	4.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	2.22302	25.0	308668.0	4.446039	Y
2	IC 480-590807/7	1.0	4.178373	25.0	290801.0	4.178373	Y
3	IC 480-590807/8	2.0	8.011095	25.0	329078.0	4.005547	Y
4	IC 480-590807/9	5.0	20.428767	25.0	335194.0	4.085753	Y
5	IC 480-590807/10	10.0	42.721617	25.0	324636.0	4.272162	Y
6	ICIS 480-590807/11	25.0	110.529988	25.0	324300.0	4.4212	Y
7	IC 480-590807/12	50.0	227.204484	25.0	326471.0	4.54409	Y
8	IC 480-590807/13	100.0	457.767305	25.0	359758.0	4.577673	Y



Calibration / 1,2,3-Trichlorobenzene

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	ISTD
Response Base:	AREA
RF Rounding:	0

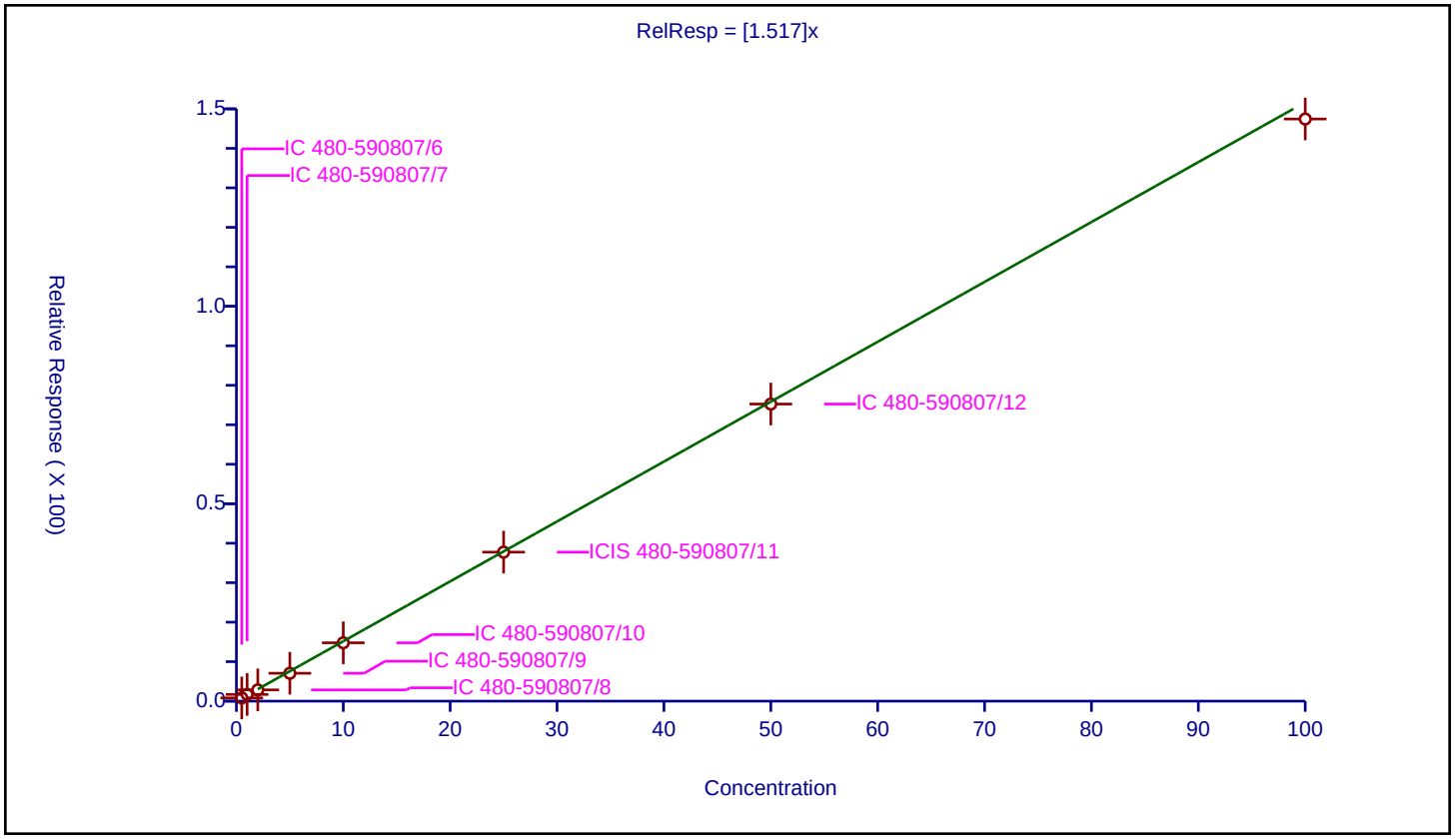
Curve Coefficients

Intercept:	0
Slope:	1.517

Error Coefficients

Standard Error:	907000
Relative Standard Error:	6.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-590807/6	0.5	0.813171	25.0	308668.0	1.626343	Y
2	IC 480-590807/7	1.0	1.703141	25.0	290801.0	1.703141	Y
3	IC 480-590807/8	2.0	2.852363	25.0	329078.0	1.426182	Y
4	IC 480-590807/9	5.0	7.060016	25.0	335194.0	1.412003	Y
5	IC 480-590807/10	10.0	14.775318	25.0	324636.0	1.477532	Y
6	ICIS 480-590807/11	25.0	37.741597	25.0	324300.0	1.509664	Y
7	IC 480-590807/12	50.0	75.243207	25.0	326471.0	1.504864	Y
8	IC 480-590807/13	100.0	147.434247	25.0	359758.0	1.474342	Y



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICV 480-590807/27 Calibration Date: 07/29/2021 01:57

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S1624.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	1.772	1.816	0.1000	25.6	25.0	2.5	50.0
Chloromethane	Ave	2.670	2.471	0.1000	23.1	25.0	-7.5	30.0
Butadiene	Ave	2.192	2.262		25.8	25.0	3.2	30.0
Vinyl chloride	Ave	2.269	2.242	0.1000	24.7	25.0	-1.2	30.0
Bromomethane	Ave	1.307	1.315	0.1000	25.2	25.0	0.6	50.0
Chloroethane	Ave	1.340	1.376	0.1000	25.7	25.0	2.7	50.0
Dichlorofluoromethane	Ave	2.980	2.978		25.0	25.0	-0.0	30.0
Trichlorofluoromethane	Ave	2.326	2.596	0.1000	27.9	25.0	11.6	30.0
Ethyl ether	Ave	1.692	1.739		25.7	25.0	2.8	30.0
Acrolein	Ave	0.0973	0.0967		124	125	-0.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.411	1.597	0.1000	28.3	25.0	13.2	30.0
1,1-Dichloroethene	Ave	1.419	1.532	0.1000	27.0	25.0	8.0	30.0
Acetone	Ave	0.8280	0.7765	0.1000	117	125	-6.2	50.0
Iodomethane	Ave	2.758	2.808		25.5	25.0	1.8	30.0
Carbon disulfide	Ave	4.865	4.989	0.1000	25.6	25.0	2.6	30.0
Allyl chloride	Ave	3.151	3.353		26.6	25.0	6.4	30.0
Methyl acetate	Ave	1.801	1.849	0.1000	51.3	50.0	2.7	50.0
Methylene Chloride	Lin1		1.908	0.1000	27.2	25.0	8.8	30.0
2-Methyl-2-propanol	Ave	0.1996	0.2083		261	250	4.3	50.0
Methyl tert-butyl ether	Ave	5.851	5.896	0.1000	25.2	25.0	0.8	30.0
trans-1,2-Dichloroethene	Ave	1.694	1.818	0.1000	26.8	25.0	7.3	30.0
Acrylonitrile	Ave	0.9935	1.005		253	250	1.1	30.0
Hexane	Ave	2.518	2.734		27.1	25.0	8.6	30.0
1,1-Dichloroethane	Ave	3.193	3.418	0.2000	26.8	25.0	7.0	30.0
Vinyl acetate	Ave	2.893	3.300		57.0	50.0	14.1	30.0
2,2-Dichloropropane	Ave	1.488	1.529		25.7	25.0	2.8	30.0
cis-1,2-Dichloroethene	Ave	1.884	1.979	0.1000	26.3	25.0	5.0	30.0
2-Butanone (MEK)	Ave	1.082	1.035	0.1000	120	125	-4.4	30.0
Chlorobromomethane	Ave	1.061	1.101		26.0	25.0	3.8	30.0
Tetrahydrofuran	Ave	0.8244	0.7569		45.9	50.0	-8.2	30.0
Chloroform	Ave	2.987	3.122	0.2000	26.1	25.0	4.5	30.0
1,1,1-Trichloroethane	Ave	2.247	2.535	0.1000	28.2	25.0	12.8	30.0
Cyclohexane	Ave	3.358	3.764	0.1000	28.0	25.0	12.1	30.0
Carbon tetrachloride	Ave	1.539	1.817	0.1000	29.5	25.0	18.1	30.0
1,1-Dichloropropene	Ave	2.145	2.271		26.5	25.0	5.8	30.0
Benzene	Ave	6.438	6.546	0.5000	25.4	25.0	1.7	30.0
Isobutyl alcohol	Lin1		0.0691		571	625	-8.7	50.0
1,2-Dichloroethane	Ave	2.649	2.626	0.1000	24.8	25.0	-0.9	30.0
n-Heptane	Ave	2.782	2.632		23.7	25.0	-5.4	30.0
Trichloroethene	Ave	1.654	1.695	0.2000	25.6	25.0	2.5	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICV 480-590807/27 Calibration Date: 07/29/2021 01:57

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S1624.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	2.856	3.200	0.1000	28.0	25.0	12.1	30.0
1,2-Dichloropropane	Ave	1.679	1.665	0.1000	24.8	25.0	-0.8	30.0
Dibromomethane	Ave	1.025	1.048	0.1000	25.6	25.0	2.2	30.0
1,4-Dioxane	Ave	0.0094	0.0082		434	500	-13.2	50.0
Bromodichloromethane	Ave	1.697	1.824	0.2000	26.9	25.0	7.5	30.0
2-Chloroethyl vinyl ether	Ave	1.082	1.015		23.5	25.0	-6.1	30.0
cis-1,3-Dichloropropene	Ave	2.206	2.216	0.2000	25.1	25.0	0.5	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.145	1.180	0.1000	129	125	3.1	30.0
Toluene	Ave	2.097	2.155	0.4000	25.7	25.0	2.8	30.0
trans-1,3-Dichloropropene	Ave	0.9363	0.9829	0.1000	26.2	25.0	5.0	30.0
Ethyl methacrylate	Lin1		0.8483		25.6	25.0	2.4	30.0
1,1,2-Trichloroethane	Ave	0.5808	0.5692	0.1000	24.5	25.0	-2.0	30.0
Tetrachloroethene	Ave	0.8965	0.9322	0.2000	26.0	25.0	4.0	30.0
1,3-Dichloropropane	Ave	1.195	1.158		24.2	25.0	-3.1	30.0
2-Hexanone	Ave	0.7096	0.7134	0.1000	126	125	0.5	30.0
Dibromochloromethane	Ave	0.5183	0.5982	0.1000	28.9	25.0	15.4	30.0
1,2-Dibromoethane	Ave	0.6953	0.7202		25.9	25.0	3.6	30.0
Chlorobenzene	Ave	2.424	2.392	0.5000	24.7	25.0	-1.3	30.0
Ethylbenzene	Ave	3.938	4.052	0.1000	25.7	25.0	2.9	30.0
1,1,1,2-Tetrachloroethane	Ave	0.6602	0.7582		28.7	25.0	14.8	30.0
m,p-Xylene	Ave	1.569	1.616	0.1000	25.8	25.0	3.0	30.0
o-Xylene	Ave	1.597	1.664	0.3000	26.1	25.0	4.3	30.0
Styrene	Ave	2.573	2.630	0.3000	25.5	25.0	2.2	30.0
Bromoform	Lin1		0.3412	0.1000	25.9	25.0	3.6	50.0
Isopropylbenzene	Ave	3.788	4.014	0.1000	26.5	25.0	6.0	30.0
Bromobenzene	Ave	0.9561	0.9594		25.1	25.0	0.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8894	0.9153	0.3000	25.7	25.0	2.9	30.0
N-Propylbenzene	Ave	4.217	4.374		25.9	25.0	3.7	30.0
1,2,3-Trichloropropane	Ave	0.3092	0.3140		25.4	25.0	1.5	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2776	0.2792		25.1	25.0	0.6	50.0
2-Chlorotoluene	Ave	0.9139	0.9480		25.9	25.0	3.7	30.0
1,3,5-Trimethylbenzene	Ave	3.221	3.376		26.2	25.0	4.8	30.0
4-Chlorotoluene	Ave	0.9200	0.9427		25.6	25.0	2.5	30.0
tert-Butylbenzene	Ave	0.7253	0.7789		26.8	25.0	7.4	30.0
1,2,4-Trimethylbenzene	Ave	3.328	3.429		25.8	25.0	3.0	30.0
sec-Butylbenzene	Ave	4.049	4.293		26.5	25.0	6.0	30.0
1,3-Dichlorobenzene	Ave	1.935	1.926	0.6000	24.9	25.0	-0.5	30.0
4-Isopropyltoluene	Ave	3.695	3.927		26.6	25.0	6.3	30.0
1,4-Dichlorobenzene	Ave	1.926	1.942	0.5000	25.2	25.0	0.8	30.0
n-Butylbenzene	Ave	3.109	3.307		26.6	25.0	6.4	30.0
1,2-Dichlorobenzene	Ave	1.969	1.947	0.4000	24.7	25.0	-1.1	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICV 480-590807/27 Calibration Date: 07/29/2021 01:57

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S1624.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	0.1179	0.1586	0.0500	33.6	25.0	34.5	50.0
1,2,4-Trichlorobenzene	Ave	1.541	1.573	0.2000	25.5	25.0	2.0	30.0
Hexachlorobutadiene	Ave	0.6221	0.6419		25.8	25.0	3.2	30.0
Naphthalene	Ave	4.316	4.558		26.4	25.0	5.6	30.0
1,2,3-Trichlorobenzene	Ave	1.517	1.520		25.1	25.0	0.2	30.0
Dibromofluoromethane (Surr)	Ave	1.444	1.518		26.3	25.0	5.1	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8658	0.8916		25.7	25.0	3.0	30.0
Toluene-d8 (Surr)	Ave	2.637	2.669		25.3	25.0	1.2	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8680	0.8561		24.7	25.0	-1.4	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1624.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 29-Jul-2021 01:57:30 ALS Bottle#: 25 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 480-0100106-027
Operator ID: LH Instrument ID: HP5973S
Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:47:18 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 29-Jul-2021 10:41:23

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	4.999	4.999	0.000	99	145844	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	87	281991	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	55	319544	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.427	0.000	55	221331	25.0	26.3	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.725	0.007	52	130028	25.0	25.7	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	80	752520	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	93	241402	25.0	24.7	
10 Dichlorodifluoromethane	85	1.088	1.087	0.001	87	264803	25.0	25.6	
12 Chloromethane	50	1.240	1.240	0.000	89	360332	25.0	23.1	
151 Butadiene	54	1.319	1.319	0.000	78	329851	25.0	25.8	
13 Vinyl chloride	62	1.319	1.319	0.000	44	326928	25.0	24.7	
14 Bromomethane	94	1.574	1.562	0.000	91	191804	25.0	25.2	
15 Chloroethane	64	1.641	1.635	0.000	94	200643	25.0	25.7	
16 Dichlorofluoromethane	67	1.842	1.842	0.000	82	434346	25.0	25.0	
17 Trichlorofluoromethane	101	1.854	1.854	0.000	71	378581	25.0	27.9	
18 Ethyl ether	59	2.091	2.091	0.000	95	253586	25.0	25.7	
20 Acrolein	56	2.262	2.268	0.000	97	70493	125.0	124.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.292	0.000	67	232915	25.0	28.3	
22 1,1-Dichloroethene	96	2.304	2.304	0.000	87	223500	25.0	27.0	
23 Acetone	43	2.414	2.420	0.000	98	566254	125.0	117.2	
25 Iodomethane	142	2.456	2.456	0.000	99	409599	25.0	25.5	
26 Carbon disulfide	76	2.493	2.493	0.000	99	727655	25.0	25.6	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	85	489008	25.0	26.6	
27 Methyl acetate	43	2.700	2.700	0.000	96	539355	50.0	51.3	
30 Methylene Chloride	84	2.797	2.797	0.000	94	278322	25.0	27.2	
31 2-Methyl-2-propanol	59	2.967	2.967	0.000	87	303735	250.0	260.9	
32 Methyl tert-butyl ether	73	2.998	2.992	0.006	94	859857	25.0	25.2	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	91	265100	25.0	26.8	
33 Acrylonitrile	53	3.071	3.071	0.000	99	1465303	250.0	252.8	
35 Hexane	57	3.199	3.198	0.000	95	398699	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.418	3.417	0.001	85	498462	25.0	26.8	
37 Vinyl acetate	43	3.478	3.478	0.000	97	962640	50.0	57.0	
44 2,2-Dichloropropane	77	3.922	3.922	0.000	91	222999	25.0	25.7	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	67	288627	25.0	26.3	
43 2-Butanone (MEK)	43	4.002	4.001	0.001	97	754630	125.0	119.5	
48 Chlorobromomethane	128	4.196	4.196	0.000	92	160602	25.0	26.0	
49 Tetrahydrofuran	42	4.208	4.208	0.000	88	220765	50.0	45.9	
50 Chloroform	83	4.275	4.275	0.000	82	455341	25.0	26.1	
52 Cyclohexane	56	4.379	4.379	0.000	95	548987	25.0	28.0	
51 1,1,1-Trichloroethane	97	4.373	4.379	-0.006	77	369657	25.0	28.2	
55 Carbon tetrachloride	117	4.506	4.513	-0.006	79	265005	25.0	29.5	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	89	331146	25.0	26.5	
57 Benzene	78	4.725	4.725	0.000	97	954682	25.0	25.4	
53 Isobutyl alcohol	43	4.780	4.774	0.006	61	252009	625.0	570.6	
58 1,2-Dichloroethane	62	4.798	4.798	0.000	73	382955	25.0	24.8	
59 n-Heptane	43	4.914	4.914	0.000	95	383876	25.0	23.7	
62 Trichloroethene	95	5.334	5.334	0.000	92	247260	25.0	25.6	
64 Methylcyclohexane	83	5.443	5.443	0.000	94	466730	25.0	28.0	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	89	242861	25.0	24.8	
67 Dibromomethane	93	5.711	5.711	0.000	87	152870	25.0	25.6	
66 1,4-Dioxane	88	5.723	5.729	0.006	50	46027	500.0	434.1	
68 Dichlorobromomethane	83	5.869	5.869	0.000	91	265965	25.0	26.9	
69 2-Chloroethyl vinyl ether	63	6.155	6.161	0.000	93	148088	25.0	23.5	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	84	323252	25.0	25.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	98	1664053	125.0	128.9	
74 Toluene	92	6.557	6.557	0.000	89	607720	25.0	25.7	
77 trans-1,3-Dichloropropene	75	6.849	6.849	0.000	94	277172	25.0	26.2	
75 Ethyl methacrylate	69	6.903	6.909	0.000	75	239221	25.0	25.6	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	87	160505	25.0	24.5	
81 Tetrachloroethene	166	7.080	7.080	0.000	83	262860	25.0	26.0	
82 1,3-Dichloropropane	76	7.189	7.195	-0.006	98	326504	25.0	24.2	
80 2-Hexanone	43	7.268	7.268	0.000	98	1005900	125.0	125.7	
83 Chlorodibromomethane	129	7.427	7.427	0.000	84	168676	25.0	28.9	
84 Ethylene Dibromide	107	7.518	7.518	0.000	98	203089	25.0	25.9	
87 Chlorobenzene	112	7.992	7.992	0.000	94	674621	25.0	24.7	
88 Ethylbenzene	91	8.090	8.090	0.000	98	1142491	25.0	25.7	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	41	213793	25.0	28.7	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	98	455645	25.0	25.8	
91 o-Xylene	106	8.631	8.631	0.000	97	469373	25.0	26.1	
92 Styrene	104	8.668	8.668	0.000	90	741567	25.0	25.5	
95 Bromoform	173	8.911	8.911	0.000	96	96213	25.0	25.9	
94 Isopropylbenzene	105	9.020	9.020	0.000	95	1282496	25.0	26.5	
101 Bromobenzene	156	9.367	9.367	0.000	92	306574	25.0	25.1	
97 1,1,2,2-Tetrachloroethane	83	9.446	9.452	-0.006	74	292464	25.0	25.7	
99 N-Propylbenzene	91	9.465	9.465	0.000	98	1397594	25.0	25.9	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	65	100335	25.0	25.4	
98 trans-1,4-Dichloro-2-butene	53	9.495	9.501	-0.006	82	89221	25.0	25.1	
103 2-Chlorotoluene	126	9.562	9.562	0.000	97	302922	25.0	25.9	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	94	1078862	25.0	26.2	
105 4-Chlorotoluene	126	9.684	9.684	0.000	97	301228	25.0	25.6	
106 tert-Butylbenzene	134	9.976	9.976	0.000	86	248880	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	10.036	10.036	0.000	63	1095602	25.0	25.8	

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	10.195	10.195	0.000	93	1371911	25.0	26.5	
111 1,3-Dichlorobenzene	146	10.322	10.322	0.000	98	615427	25.0	24.9	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	97	1254802	25.0	26.6	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	94	620558	25.0	25.2	
115 n-Butylbenzene	91	10.736	10.736	0.000	95	1056849	25.0	26.6	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.001	97	622230	25.0	24.7	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	71	50679	25.0	33.6	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	93	502493	25.0	25.5	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	94	205105	25.0	25.8	
121 Naphthalene	128	12.409	12.409	0.000	96	1456343	25.0	26.4	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	96	485836	25.0	25.1	

QC Flag Legend

Processing Flags

Reagents:

SS GAS CORP_00414	Amount Added:	12.50	Units: uL	
SS 8260 CORP_00093	Amount Added:	12.50	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

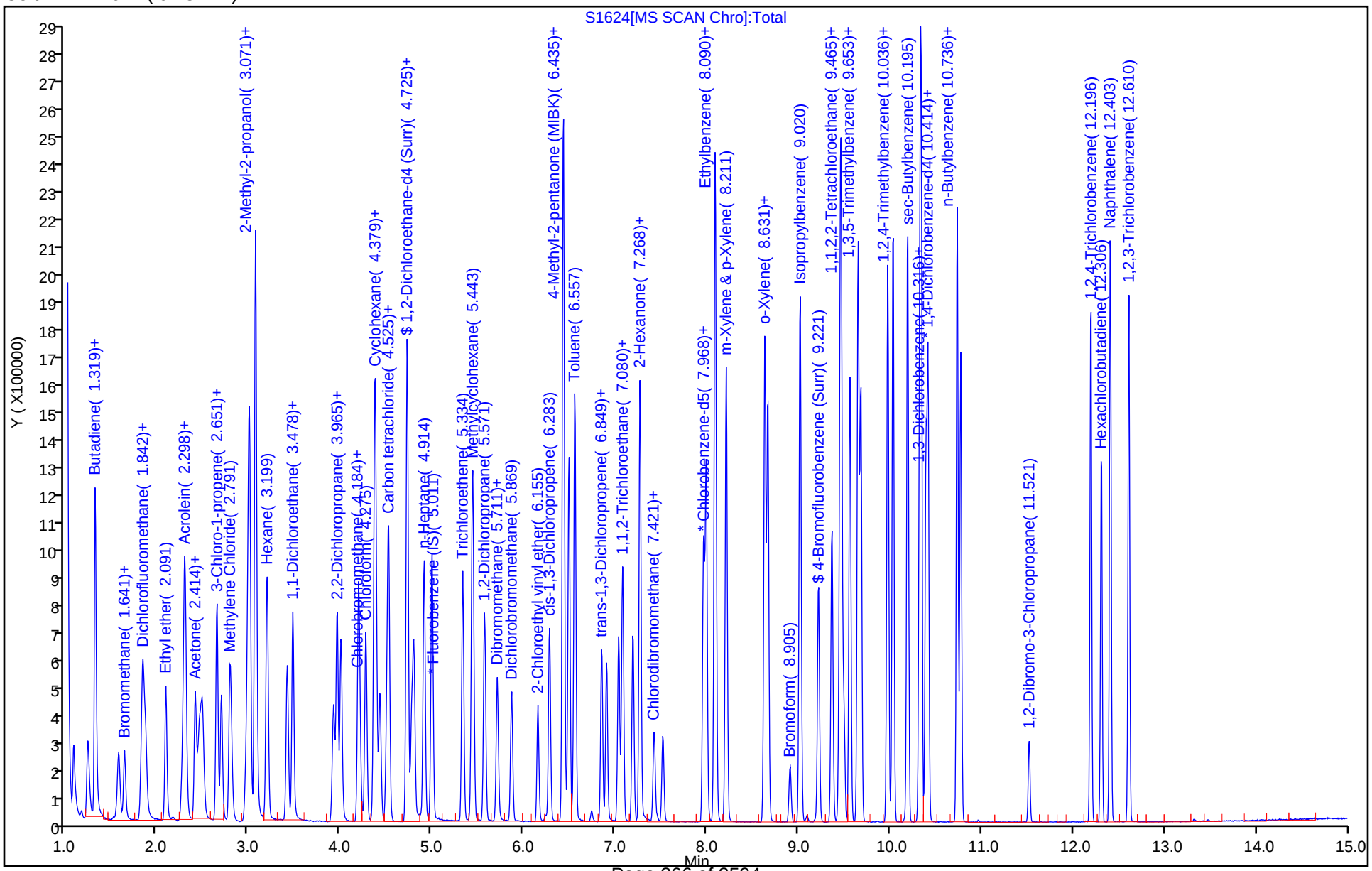
Report Date: 29-Jul-2021 10:47:26 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1624.D

Injection Date:	29-Jul-2021 01:57:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	ICV			Worklist Smp#:	27
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVIS 480-592153/3 Calibration Date: 08/09/2021 09:59

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S2039.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	1.772	1.839	0.1000	25.9	25.0	3.8	50.0
Chloromethane	Ave	2.670	2.449	0.1000	22.9	25.0	-8.3	20.0
Butadiene	Ave	2.192	2.306		26.3	25.0	5.2	20.0
Vinyl chloride	Ave	2.269	2.192	0.1000	24.1	25.0	-3.4	20.0
Bromomethane	Ave	1.307	1.208	0.1000	23.1	25.0	-7.6	50.0
Chloroethane	Ave	1.340	1.342	0.1000	25.0	25.0	0.2	50.0
Dichlorofluoromethane	Ave	2.980	2.777		23.3	25.0	-6.8	20.0
Trichlorofluoromethane	Ave	2.326	2.428	0.1000	26.1	25.0	4.4	20.0
Ethyl ether	Ave	1.692	1.695		25.0	25.0	0.2	20.0
Acrolein	Ave	0.0973	0.0851		109	125	-12.5	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.411	1.460	0.1000	25.9	25.0	3.5	20.0
1,1-Dichloroethene	Ave	1.419	1.353	0.1000	23.8	25.0	-4.6	20.0
Acetone	Ave	0.8280	0.9247	0.1000	140	125	11.7	50.0
Iodomethane	Ave	2.758	2.431		22.0	25.0	-11.9	20.0
Carbon disulfide	Ave	4.865	4.568	0.1000	23.5	25.0	-6.1	20.0
Allyl chloride	Ave	3.151	3.422		27.1	25.0	8.6	20.0
Methyl acetate	Ave	1.801	1.822	0.1000	50.6	50.0	1.1	50.0
Methylene Chloride	Lin1		1.661	0.1000	23.6	25.0	-5.6	20.0
2-Methyl-2-propanol	Ave	0.1996	0.1802		226	250	-9.7	50.0
Methyl tert-butyl ether	Ave	5.851	5.372	0.1000	23.0	25.0	-8.2	20.0
trans-1,2-Dichloroethene	Ave	1.694	1.673	0.1000	24.7	25.0	-1.3	20.0
Acrylonitrile	Ave	0.9935	1.014		255	250	2.1	20.0
Hexane	Ave	2.518	3.027		30.1	25.0	20.2*	20.0
1,1-Dichloroethane	Ave	3.193	3.262	0.2000	25.5	25.0	2.2	20.0
Vinyl acetate	Ave	2.893	3.420		59.1	50.0	18.2	20.0
2,2-Dichloropropane	Ave	1.488	1.383		23.2	25.0	-7.1	20.0
cis-1,2-Dichloroethene	Ave	1.884	1.784	0.1000	23.7	25.0	-5.3	20.0
2-Butanone (MEK)	Ave	1.082	1.251	0.1000	144	125	15.6	20.0
Chlorobromomethane	Ave	1.061	1.024		24.1	25.0	-3.4	20.0
Tetrahydrofuran	Ave	0.8244	0.8578		52.0	50.0	4.1	20.0
Chloroform	Ave	2.987	2.925	0.2000	24.5	25.0	-2.1	20.0
1,1,1-Trichloroethane	Ave	2.247	2.431	0.1000	27.0	25.0	8.2	20.0
Cyclohexane	Ave	3.358	3.566	0.1000	26.5	25.0	6.2	20.0
Carbon tetrachloride	Ave	1.539	1.997	0.1000	32.4	25.0	29.8*	20.0
1,1-Dichloropropene	Ave	2.145	2.255		26.3	25.0	5.1	20.0
Benzene	Ave	6.438	6.427	0.5000	25.0	25.0	-0.2	20.0
Isobutyl alcohol	Lin1		0.0845		694	625	11.1	50.0
1,2-Dichloroethane	Ave	2.649	2.538	0.1000	24.0	25.0	-4.2	20.0
n-Heptane	Ave	2.782	3.210		28.9	25.0	15.4	20.0
Trichloroethene	Ave	1.654	1.660	0.2000	25.1	25.0	0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVIS 480-592153/3 Calibration Date: 08/09/2021 09:59

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S2039.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	2.856	3.141	0.1000	27.5	25.0	10.0	20.0
1,2-Dichloropropane	Ave	1.679	1.707	0.1000	25.4	25.0	1.6	20.0
Dibromomethane	Ave	1.025	1.010	0.1000	24.6	25.0	-1.4	20.0
1,4-Dioxane	Ave	0.0094	0.0118		630	500	25.9	50.0
Bromodichloromethane	Ave	1.697	1.942	0.2000	28.6	25.0	14.4	20.0
2-Chloroethyl vinyl ether	Ave	1.082	1.063		24.6	25.0	-1.7	20.0
cis-1,3-Dichloropropene	Ave	2.206	2.306	0.2000	26.1	25.0	4.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.145	1.226	0.1000	134	125	7.0	20.0
Toluene	Ave	2.097	1.995	0.4000	23.8	25.0	-4.8	20.0
trans-1,3-Dichloropropene	Ave	0.9363	1.011	0.1000	27.0	25.0	8.0	20.0
Ethyl methacrylate	Lin1		0.7917		23.9	25.0	-4.3	20.0
1,1,2-Trichloroethane	Ave	0.5808	0.5604	0.1000	24.1	25.0	-3.5	20.0
Tetrachloroethene	Ave	0.8965	0.8818	0.2000	24.6	25.0	-1.6	20.0
1,3-Dichloropropane	Ave	1.195	1.180		24.7	25.0	-1.3	20.0
2-Hexanone	Ave	0.7096	0.8472	0.1000	149	125	19.4	20.0
Dibromochloromethane	Ave	0.5183	0.7186	0.1000	34.7	25.0	38.6*	20.0
1,2-Dibromoethane	Ave	0.6953	0.7176		25.8	25.0	3.2	20.0
Chlorobenzene	Ave	2.424	2.315	0.5000	23.9	25.0	-4.5	20.0
Ethylbenzene	Ave	3.938	3.878	0.1000	24.6	25.0	-1.5	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6602	0.7730		29.3	25.0	17.1	20.0
m,p-Xylene	Ave	1.569	1.540	0.1000	24.5	25.0	-1.8	20.0
o-Xylene	Ave	1.597	1.516	0.3000	23.7	25.0	-5.0	20.0
Styrene	Ave	2.573	2.489	0.3000	24.2	25.0	-3.3	20.0
Bromoform	Lin1		0.4547	0.1000	34.3	25.0	37.3	50.0
Isopropylbenzene	Ave	3.788	3.694	0.1000	24.4	25.0	-2.5	20.0
Bromobenzene	Ave	0.9561	0.8982		23.5	25.0	-6.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8894	0.9029	0.3000	25.4	25.0	1.5	20.0
N-Propylbenzene	Ave	4.217	4.167		24.7	25.0	-1.2	20.0
1,2,3-Trichloropropane	Ave	0.3092	0.2993		24.2	25.0	-3.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2776	0.2810		25.3	25.0	1.2	50.0
2-Chlorotoluene	Ave	0.9139	0.8752		23.9	25.0	-4.2	20.0
1,3,5-Trimethylbenzene	Ave	3.221	3.102		24.1	25.0	-3.7	20.0
4-Chlorotoluene	Ave	0.9200	0.8902		24.2	25.0	-3.2	20.0
tert-Butylbenzene	Ave	0.7253	0.7010		24.2	25.0	-3.4	20.0
1,2,4-Trimethylbenzene	Ave	3.328	3.164		23.8	25.0	-4.9	20.0
sec-Butylbenzene	Ave	4.049	4.041		25.0	25.0	-0.2	20.0
1,3-Dichlorobenzene	Ave	1.935	1.734	0.6000	22.4	25.0	-10.4	20.0
4-Isopropyltoluene	Ave	3.695	3.604		24.4	25.0	-2.5	20.0
1,4-Dichlorobenzene	Ave	1.926	1.790	0.5000	23.2	25.0	-7.1	20.0
n-Butylbenzene	Ave	3.109	3.059		24.6	25.0	-1.6	20.0
1,2-Dichlorobenzene	Ave	1.969	1.744	0.4000	22.1	25.0	-11.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVIS 480-592153/3 Calibration Date: 08/09/2021 09:59

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S2039.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	0.1179	0.1709	0.0500	36.2	25.0	44.9	50.0
1,2,4-Trichlorobenzene	Ave	1.541	1.334	0.2000	21.6	25.0	-13.4	20.0
Hexachlorobutadiene	Ave	0.6221	0.5517		22.2	25.0	-11.3	20.0
Naphthalene	Ave	4.316	4.063		23.5	25.0	-5.9	20.0
1,2,3-Trichlorobenzene	Ave	1.517	1.312		21.6	25.0	-13.5	20.0
Dibromofluoromethane (Surr)	Ave	1.444	1.479		25.6	25.0	2.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8658	0.9027		26.1	25.0	4.3	20.0
Toluene-d8 (Surr)	Ave	2.637	2.637		25.0	25.0	0.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8680	0.8481		24.4	25.0	-2.3	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2039.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Aug-2021 09:59:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0100304-003
Operator ID: LH/AK/AG Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 09:58:33 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: HillL Date: 10-Aug-2021 09:58:33

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	4.999	4.999	0.000	98	142199	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.968	7.968	0.000	84	290584	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	55	327402	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.433	0.000	58	210243	25.0	25.6	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	53	128364	25.0	26.1	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	64	766406	25.0	25.0	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	88	246457	25.0	24.4	
10 Dichlorodifluoromethane	85	1.088	1.088	0.000	87	261520	25.0	25.9	
12 Chloromethane	50	1.246	1.246	0.000	89	348204	25.0	22.9	
13 Vinyl chloride	62	1.325	1.325	0.000	47	311703	25.0	24.1	
151 Butadiene	54	1.325	1.325	0.000	69	327912	25.0	26.3	
14 Bromomethane	94	1.580	1.580	0.000	92	171743	25.0	23.1	
15 Chloroethane	64	1.641	1.641	0.000	94	190818	25.0	25.0	
16 Dichlorofluoromethane	67	1.848	1.848	0.000	82	394869	25.0	23.3	
17 Trichlorofluoromethane	101	1.860	1.860	0.000	57	345223	25.0	26.1	
18 Ethyl ether	59	2.091	2.091	0.000	98	241074	25.0	25.0	
20 Acrolein	56	2.268	2.268	0.000	96	60483	125.0	109.3	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.292	0.000	78	207641	25.0	25.9	
22 1,1-Dichloroethene	96	2.310	2.310	0.000	86	192338	25.0	23.8	
23 Acetone	43	2.414	2.414	0.000	98	657459	125.0	139.6	
25 Iodomethane	142	2.462	2.462	0.000	98	345712	25.0	22.0	
26 Carbon disulfide	76	2.499	2.499	0.000	99	649599	25.0	23.5	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	86	486560	25.0	27.1	
27 Methyl acetate	43	2.700	2.700	0.000	96	518054	50.0	50.6	
30 Methylene Chloride	84	2.809	2.809	0.000	93	236208	25.0	23.6	
31 2-Methyl-2-propanol	59	2.973	2.973	0.000	78	256177	250.0	225.7	
32 Methyl tert-butyl ether	73	2.998	2.998	0.000	94	763953	25.0	23.0	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	90	237835	25.0	24.7	
33 Acrylonitrile	53	3.071	3.071	0.000	98	1442135	250.0	255.2	
35 Hexane	57	3.199	3.199	0.000	96	430459	25.0	30.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.418	3.418	0.000	85	463869	25.0	25.5	
37 Vinyl acetate	43	3.478	3.478	0.000	97	972710	50.0	59.1	
44 2,2-Dichloropropane	77	3.922	3.922	0.000	86	196680	25.0	23.2	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	67	253722	25.0	23.7	
43 2-Butanone (MEK)	43	4.008	4.008	0.000	96	889373	125.0	144.5	
48 Chlorobromomethane	128	4.196	4.196	0.000	94	145677	25.0	24.1	
49 Tetrahydrofuran	42	4.208	4.208	0.000	91	243965	50.0	52.0	
50 Chloroform	83	4.275	4.275	0.000	82	415998	25.0	24.5	
52 Cyclohexane	56	4.379	4.379	0.000	94	507023	25.0	26.5	
51 1,1,1-Trichloroethane	97	4.379	4.379	0.000	72	345657	25.0	27.0	
55 Carbon tetrachloride	117	4.506	4.506	0.000	84	283964	25.0	32.4	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	90	320641	25.0	26.3	
57 Benzene	78	4.725	4.725	0.000	96	913871	25.0	25.0	
53 Isobutyl alcohol	43	4.780	4.780	0.000	61	300559	625.0	694.4	
58 1,2-Dichloroethane	62	4.798	4.798	0.000	72	360907	25.0	24.0	
59 n-Heptane	43	4.914	4.914	0.000	96	456472	25.0	28.9	
62 Trichloroethene	95	5.334	5.334	0.000	94	236062	25.0	25.1	
64 Methylcyclohexane	83	5.443	5.443	0.000	96	446650	25.0	27.5	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	90	242731	25.0	25.4	
67 Dibromomethane	93	5.711	5.711	0.000	90	143691	25.0	24.6	
66 1,4-Dioxane	88	5.723	5.723	0.000	58	68795	500.0	629.7	
68 Dichlorobromomethane	83	5.869	5.869	0.000	92	276141	25.0	28.6	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	91	151144	25.0	24.6	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	85	327981	25.0	26.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	99	1780697	125.0	133.8	
74 Toluene	92	6.563	6.563	0.000	95	579810	25.0	23.8	
77 trans-1,3-Dichloropropene	75	6.855	6.855	0.000	94	293849	25.0	27.0	
75 Ethyl methacrylate	69	6.909	6.909	0.000	76	230049	25.0	23.9	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	89	162838	25.0	24.1	
81 Tetrachloroethene	166	7.080	7.080	0.000	83	256225	25.0	24.6	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	98	342937	25.0	24.7	
80 2-Hexanone	43	7.275	7.275	0.000	99	1230926	125.0	149.2	
83 Chlorodibromomethane	129	7.427	7.427	0.000	87	208813	25.0	34.7	
84 Ethylene Dibromide	107	7.524	7.524	0.000	98	208529	25.0	25.8	
87 Chlorobenzene	112	7.992	7.992	0.000	94	672733	25.0	23.9	
88 Ethylbenzene	91	8.090	8.090	0.000	99	1127001	25.0	24.6	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	40	224635	25.0	29.3	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	98	447549	25.0	24.5	
91 o-Xylene	106	8.637	8.637	0.000	98	440613	25.0	23.7	
92 Styrene	104	8.668	8.668	0.000	91	723293	25.0	24.2	
95 Bromoform	173	8.911	8.911	0.000	96	132129	25.0	34.3	
94 Isopropylbenzene	105	9.020	9.020	0.000	96	1209456	25.0	24.4	
101 Bromobenzene	156	9.367	9.367	0.000	93	294088	25.0	23.5	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	59	295623	25.0	25.4	
99 N-Propylbenzene	91	9.465	9.465	0.000	98	1364229	25.0	24.7	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	61	97985	25.0	24.2	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	83	92004	25.0	25.3	
103 2-Chlorotoluene	126	9.568	9.568	0.000	95	286538	25.0	23.9	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	94	1015697	25.0	24.1	
105 4-Chlorotoluene	126	9.684	9.684	0.000	97	291446	25.0	24.2	
106 tert-Butylbenzene	134	9.976	9.976	0.000	87	229493	25.0	24.2	
107 1,2,4-Trimethylbenzene	105	10.036	10.036	0.000	61	1035856	25.0	23.8	

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	10.195	10.195	0.000	94	1323143	25.0	25.0	
111 1,3-Dichlorobenzene	146	10.328	10.328	0.000	98	567659	25.0	22.4	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	97	1179966	25.0	24.4	
113 1,4-Dichlorobenzene	146	10.420	10.420	0.000	95	586025	25.0	23.2	
115 n-Butylbenzene	91	10.736	10.736	0.000	95	1001361	25.0	24.6	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.000	96	570964	25.0	22.1	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	78	55942	25.0	36.2	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	91	436880	25.0	21.6	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	95	180633	25.0	22.2	
121 Naphthalene	128	12.409	12.409	0.000	97	1330198	25.0	23.5	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	96	429407	25.0	21.6	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00211	Amount Added: 12.50	Units: uL	
GAS CORP mix_00466	Amount Added: 12.50	Units: uL	
S_8260_IS_00350	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added: 1.00	Units: uL	Run Reagent

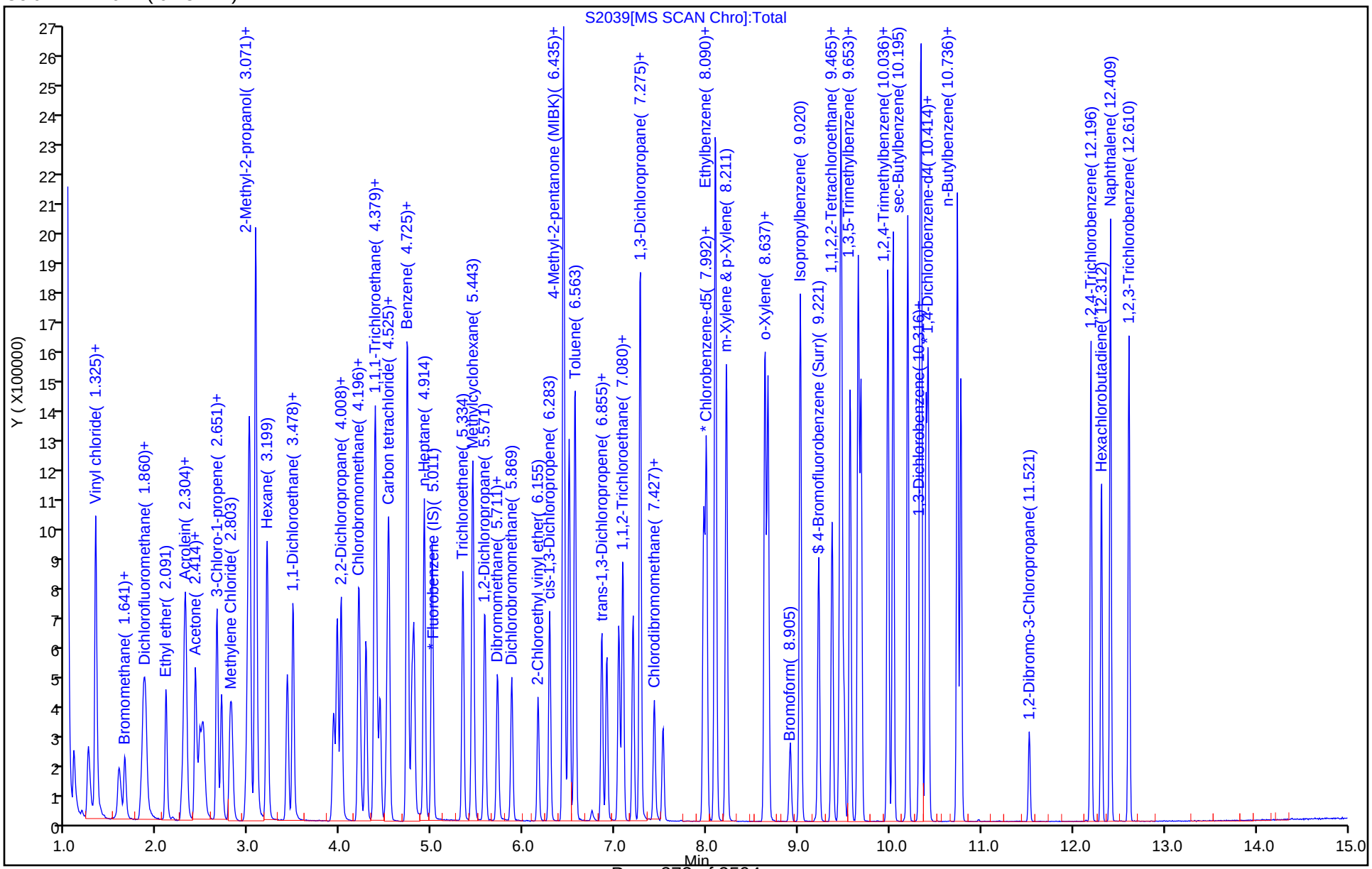
Report Date: 10-Aug-2021 09:58:34 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2039.D

Injection Date:	09-Aug-2021 09:59:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVIS 480-592370/4 Calibration Date: 08/10/2021 23:49

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S2119.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	1.772	2.107	0.1000	29.7	25.0	18.9	50.0
Chloromethane	Ave	2.670	2.717	0.1000	25.4	25.0	1.8	20.0
Vinyl chloride	Ave	2.269	2.398	0.1000	26.4	25.0	5.7	20.0
Butadiene	Ave	2.192	3.168		36.1	25.0	44.5*	20.0
Bromomethane	Ave	1.307	1.304	0.1000	24.9	25.0	-0.2	50.0
Chloroethane	Ave	1.340	1.441	0.1000	26.9	25.0	7.6	50.0
Dichlorofluoromethane	Ave	2.980	3.064		25.7	25.0	2.8	20.0
Trichlorofluoromethane	Ave	2.326	2.574	0.1000	27.7	25.0	10.7	20.0
Ethyl ether	Ave	1.692	1.656		24.5	25.0	-2.1	20.0
Acrolein	Ave	0.0973	0.0855		110	125	-12.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.411	1.422	0.1000	25.2	25.0	0.8	20.0
1,1-Dichloroethene	Ave	1.419	1.397	0.1000	24.6	25.0	-1.5	20.0
Acetone	Ave	0.8280	0.8313	0.1000	125	125	0.4	50.0
Iodomethane	Ave	2.758	2.507		22.7	25.0	-9.1	20.0
Carbon disulfide	Ave	4.865	4.996	0.1000	25.7	25.0	2.7	20.0
Allyl chloride	Ave	3.151	3.037		24.1	25.0	-3.6	20.0
Methyl acetate	Ave	1.801	1.890	0.1000	52.5	50.0	5.0	50.0
Methylene Chloride	Lin1		1.783	0.1000	25.4	25.0	1.5	20.0
2-Methyl-2-propanol	Ave	0.1996	0.2331		292	250	16.8	50.0
Methyl tert-butyl ether	Ave	5.851	5.429	0.1000	23.2	25.0	-7.2	20.0
trans-1,2-Dichloroethene	Ave	1.694	1.648	0.1000	24.3	25.0	-2.7	20.0
Acrylonitrile	Ave	0.9935	0.9877		249	250	-0.6	20.0
Hexane	Ave	2.518	2.630		26.1	25.0	4.5	20.0
1,1-Dichloroethane	Ave	3.193	3.198	0.2000	25.0	25.0	0.2	20.0
Vinyl acetate	Ave	2.893	3.774		65.2	50.0	30.4*	20.0
2,2-Dichloropropane	Ave	1.488	1.341		22.5	25.0	-9.9	20.0
cis-1,2-Dichloroethene	Ave	1.884	1.756	0.1000	23.3	25.0	-6.8	20.0
2-Butanone (MEK)	Ave	1.082	1.210	0.1000	140	125	11.8	20.0
Chlorobromomethane	Ave	1.061	0.995		23.5	25.0	-6.2	20.0
Tetrahydrofuran	Ave	0.8244	0.8225		49.9	50.0	-0.2	20.0
Chloroform	Ave	2.987	2.875	0.2000	24.1	25.0	-3.7	20.0
1,1,1-Trichloroethane	Ave	2.247	2.384	0.1000	26.5	25.0	6.1	20.0
Cyclohexane	Ave	3.358	3.588	0.1000	26.7	25.0	6.9	20.0
Carbon tetrachloride	Ave	1.539	1.879	0.1000	30.5	25.0	22.1*	20.0
1,1-Dichloropropene	Ave	2.145	2.199		25.6	25.0	2.5	20.0
Benzene	Ave	6.438	6.299	0.5000	24.5	25.0	-2.2	20.0
Isobutyl alcohol	Lin1		0.1106		904	625	44.6	50.0
1,2-Dichloroethane	Ave	2.649	2.517	0.1000	23.8	25.0	-5.0	20.0
n-Heptane	Ave	2.782	2.778		25.0	25.0	-0.1	20.0
Trichloroethene	Ave	1.654	1.593	0.2000	24.1	25.0	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVIS 480-592370/4 Calibration Date: 08/10/2021 23:49

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S2119.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	2.856	2.927	0.1000	25.6	25.0	2.5	20.0
1,2-Dichloropropane	Ave	1.679	1.700	0.1000	25.3	25.0	1.3	20.0
Dibromomethane	Ave	1.025	1.019	0.1000	24.8	25.0	-0.7	20.0
1,4-Dioxane	Ave	0.0094	0.0096		508	500	1.6	50.0
Bromodichloromethane	Ave	1.697	1.888	0.2000	27.8	25.0	11.3	20.0
2-Chloroethyl vinyl ether	Ave	1.082	1.049		24.2	25.0	-3.0	20.0
cis-1,3-Dichloropropene	Ave	2.206	2.217	0.2000	25.1	25.0	0.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	1.145	1.262	0.1000	138	125	10.2	20.0
Toluene	Ave	2.097	2.016	0.4000	24.0	25.0	-3.8	20.0
trans-1,3-Dichloropropene	Ave	0.9363	0.9676	0.1000	25.8	25.0	3.3	20.0
Ethyl methacrylate	Lin1		1.070		32.1	25.0	28.5*	20.0
1,1,2-Trichloroethane	Ave	0.5808	0.5651	0.1000	24.3	25.0	-2.7	20.0
Tetrachloroethene	Ave	0.8965	0.8482	0.2000	23.7	25.0	-5.4	20.0
1,3-Dichloropropane	Ave	1.195	1.176		24.6	25.0	-1.6	20.0
2-Hexanone	Ave	0.7096	0.8989	0.1000	158	125	26.7*	20.0
Dibromochloromethane	Ave	0.5183	0.6929	0.1000	33.4	25.0	33.7*	20.0
1,2-Dibromoethane	Ave	0.6953	0.7478		26.9	25.0	7.6	20.0
Chlorobenzene	Ave	2.424	2.290	0.5000	23.6	25.0	-5.5	20.0
Ethylbenzene	Ave	3.938	3.817	0.1000	24.2	25.0	-3.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6602	0.7734		29.3	25.0	17.1	20.0
m,p-Xylene	Ave	1.569	1.504	0.1000	24.0	25.0	-4.1	20.0
o-Xylene	Ave	1.597	1.525	0.3000	23.9	25.0	-4.5	20.0
Styrene	Ave	2.573	2.479	0.3000	24.1	25.0	-3.7	20.0
Bromoform	Lin1		0.4075	0.1000	30.8	25.0	23.3	50.0
Isopropylbenzene	Ave	3.788	3.734	0.1000	24.6	25.0	-1.4	20.0
Bromobenzene	Ave	0.9561	0.9094		23.8	25.0	-4.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8894	0.9151	0.3000	25.7	25.0	2.9	20.0
N-Propylbenzene	Ave	4.217	4.182		24.8	25.0	-0.8	20.0
1,2,3-Trichloropropane	Ave	0.3092	0.3049		24.7	25.0	-1.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2776	0.0189		1.70	25.0	-93.2*	50.0
2-Chlorotoluene	Ave	0.9139	0.9042		24.7	25.0	-1.1	20.0
1,3,5-Trimethylbenzene	Ave	3.221	3.213		24.9	25.0	-0.2	20.0
4-Chlorotoluene	Ave	0.9200	0.9227		25.1	25.0	0.3	20.0
tert-Butylbenzene	Ave	0.7253	0.7532		26.0	25.0	3.8	20.0
1,2,4-Trimethylbenzene	Ave	3.328	3.271		24.6	25.0	-1.7	20.0
sec-Butylbenzene	Ave	4.049	4.099		25.3	25.0	1.2	20.0
1,3-Dichlorobenzene	Ave	1.935	1.831	0.6000	23.7	25.0	-5.4	20.0
4-Isopropyltoluene	Ave	3.695	3.705		25.1	25.0	0.3	20.0
1,4-Dichlorobenzene	Ave	1.926	1.860	0.5000	24.1	25.0	-3.5	20.0
n-Butylbenzene	Ave	3.109	3.177		25.5	25.0	2.2	20.0
1,2-Dichlorobenzene	Ave	1.969	1.850	0.4000	23.5	25.0	-6.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVIS 480-592370/4 Calibration Date: 08/10/2021 23:49

Instrument ID: HP5973S Calib Start Date: 07/28/2021 17:50

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 07/28/2021 20:32

Lab File ID: S2119.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	0.1179	0.1732	0.0500	36.7	25.0	46.9	50.0
1,2,4-Trichlorobenzene	Ave	1.541	1.432	0.2000	23.2	25.0	-7.0	20.0
Hexachlorobutadiene	Ave	0.6221	0.5686		22.9	25.0	-8.6	20.0
Naphthalene	Ave	4.316	4.181		24.2	25.0	-3.1	20.0
1,2,3-Trichlorobenzene	Ave	1.517	1.383		22.8	25.0	-8.8	20.0
Dibromofluoromethane (Surr)	Ave	1.444	1.434		24.8	25.0	-0.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.8658	0.8928		25.8	25.0	3.1	20.0
Toluene-d8 (Surr)	Ave	2.637	2.656		25.2	25.0	0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.8680	0.8147		23.5	25.0	-6.1	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2119.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Aug-2021 23:49:30 ALS Bottle#: 33 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0100343-004
Operator ID: LH/AK/AG Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Aug-2021 16:58:03 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1614

First Level Reviewer: lapointec Date: 11-Aug-2021 16:58:03

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	4.999	4.999	0.000	98	124657	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	85	249719	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	54	274831	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.433	0.000	57	178723	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	52	111293	25.0	25.8	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	75	663292	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	89	203436	25.0	23.5	
10 Dichlorodifluoromethane	85	1.088	1.088	0.000	87	262646	25.0	29.7	
12 Chloromethane	50	1.240	1.240	0.000	88	338664	25.0	25.4	
13 Vinyl chloride	62	1.319	1.319	0.000	45	298958	25.0	26.4	
151 Butadiene	54	1.325	1.325	0.000	78	394880	25.0	36.1	
14 Bromomethane	94	1.580	1.580	0.000	91	162571	25.0	24.9	
15 Chloroethane	64	1.641	1.641	0.000	94	179652	25.0	26.9	
16 Dichlorofluoromethane	67	1.848	1.848	0.000	82	381952	25.0	25.7	
17 Trichlorofluoromethane	101	1.860	1.860	0.000	64	320919	25.0	27.7	
18 Ethyl ether	59	2.091	2.091	0.000	96	206445	25.0	24.5	
20 Acrolein	56	2.268	2.268	0.000	94	53270	125.0	109.9	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.292	0.000	79	177303	25.0	25.2	
22 1,1-Dichloroethene	96	2.304	2.304	0.000	86	174137	25.0	24.6	
23 Acetone	43	2.420	2.420	0.000	98	518122	125.0	125.5	
25 Iodomethane	142	2.456	2.456	0.000	98	312522	25.0	22.7	
26 Carbon disulfide	76	2.499	2.499	0.000	99	622797	25.0	25.7	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	85	378645	25.0	24.1	
27 Methyl acetate	43	2.700	2.700	0.000	97	471322	50.0	52.5	
30 Methylene Chloride	84	2.803	2.803	0.000	91	222268	25.0	25.4	
31 2-Methyl-2-propanol	59	2.973	2.973	0.000	83	290520	250.0	291.9	
32 Methyl tert-butyl ether	73	2.998	2.998	0.000	92	676748	25.0	23.2	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	89	205417	25.0	24.3	
33 Acrylonitrile	53	3.077	3.077	0.000	99	1231266	250.0	248.6	
35 Hexane	57	3.199	3.199	0.000	92	327899	25.0	26.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.418	3.418	0.000	85	398658	25.0	25.0	
37 Vinyl acetate	43	3.478	3.478	0.000	97	940846	50.0	65.2	
44 2,2-Dichloropropane	77	3.922	3.922	0.000	90	167120	25.0	22.5	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	67	218840	25.0	23.3	
43 2-Butanone (MEK)	43	4.008	4.008	0.000	96	753993	125.0	139.7	
48 Chlorobromomethane	128	4.196	4.196	0.000	93	124061	25.0	23.5	
49 Tetrahydrofuran	42	4.208	4.208	0.000	93	205053	50.0	49.9	
50 Chloroform	83	4.275	4.275	0.000	81	358421	25.0	24.1	
52 Cyclohexane	56	4.379	4.379	0.000	95	447299	25.0	26.7	
51 1,1,1-Trichloroethane	97	4.379	4.379	0.000	72	297212	25.0	26.5	
55 Carbon tetrachloride	117	4.513	4.513	0.000	82	234281	25.0	30.5	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	89	274160	25.0	25.6	
57 Benzene	78	4.725	4.725	0.000	96	785175	25.0	24.5	
53 Isobutyl alcohol	43	4.780	4.780	0.000	60	344762	625.0	903.8	
58 1,2-Dichloroethane	62	4.805	4.805	0.000	81	313795	25.0	23.8	
59 n-Heptane	43	4.914	4.914	0.000	96	346318	25.0	25.0	
62 Trichloroethene	95	5.334	5.334	0.000	91	198575	25.0	24.1	
64 Methylcyclohexane	83	5.443	5.443	0.000	96	364875	25.0	25.6	
65 1,2-Dichloropropane	63	5.577	5.577	0.000	90	211966	25.0	25.3	
67 Dibromomethane	93	5.711	5.711	0.000	90	126969	25.0	24.8	
66 1,4-Dioxane	88	5.723	5.723	0.000	56	47702	500.0	508.1	M
68 Dichlorobromomethane	83	5.869	5.869	0.000	89	235367	25.0	27.8	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	93	130731	25.0	24.2	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	86	276312	25.0	25.1	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	99	1575886	125.0	137.8	
74 Toluene	92	6.563	6.563	0.000	89	503504	25.0	24.0	
77 trans-1,3-Dichloropropene	75	6.855	6.855	0.000	95	241623	25.0	25.8	
75 Ethyl methacrylate	69	6.903	6.903	0.000	78	267118	25.0	32.1	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	94	141122	25.0	24.3	
81 Tetrachloroethene	166	7.080	7.080	0.000	89	211805	25.0	23.7	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	98	293652	25.0	24.6	
80 2-Hexanone	43	7.274	7.274	0.000	98	1122337	125.0	158.3	
83 Chlorodibromomethane	129	7.427	7.427	0.000	88	173022	25.0	33.4	
84 Ethylene Dibromide	107	7.524	7.524	0.000	97	186731	25.0	26.9	
87 Chlorobenzene	112	7.992	7.992	0.000	93	571807	25.0	23.6	
88 Ethylbenzene	91	8.090	8.090	0.000	98	953232	25.0	24.2	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	40	193138	25.0	29.3	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	98	375630	25.0	24.0	
91 o-Xylene	106	8.631	8.631	0.000	98	380795	25.0	23.9	
92 Styrene	104	8.668	8.668	0.000	93	619122	25.0	24.1	
95 Bromoform	173	8.911	8.911	0.000	94	101750	25.0	30.8	
94 Isopropylbenzene	105	9.020	9.020	0.000	96	1026243	25.0	24.6	
101 Bromobenzene	156	9.367	9.367	0.000	94	249945	25.0	23.8	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	57	251506	25.0	25.7	
99 N-Propylbenzene	91	9.465	9.465	0.000	98	1149444	25.0	24.8	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	62	83797	25.0	24.7	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	1	5192	25.0	1.70	Ma
103 2-Chlorotoluene	126	9.562	9.562	0.000	96	248505	25.0	24.7	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	94	883061	25.0	24.9	
105 4-Chlorotoluene	126	9.684	9.684	0.000	97	253588	25.0	25.1	
106 tert-Butylbenzene	134	9.976	9.976	0.000	91	206991	25.0	26.0	
107 1,2,4-Trimethylbenzene	105	10.036	10.036	0.000	57	898873	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
109 sec-Butylbenzene	105	10.195	10.195	0.000	94	1126661	25.0	25.3	
111 1,3-Dichlorobenzene	146	10.322	10.322	0.000	98	503189	25.0	23.7	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	96	1018314	25.0	25.1	
113 1,4-Dichlorobenzene	146	10.414	10.414	0.000	94	511090	25.0	24.1	
115 n-Butylbenzene	91	10.736	10.736	0.000	95	873089	25.0	25.5	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.000	96	508305	25.0	23.5	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	75	47604	25.0	36.7	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	91	393687	25.0	23.2	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	95	156266	25.0	22.9	
121 Naphthalene	128	12.409	12.409	0.000	97	1148947	25.0	24.2	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	95	380132	25.0	22.8	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00210	Amount Added:	12.50	Units: uL	
GAS CORP mix_00467	Amount Added:	12.50	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

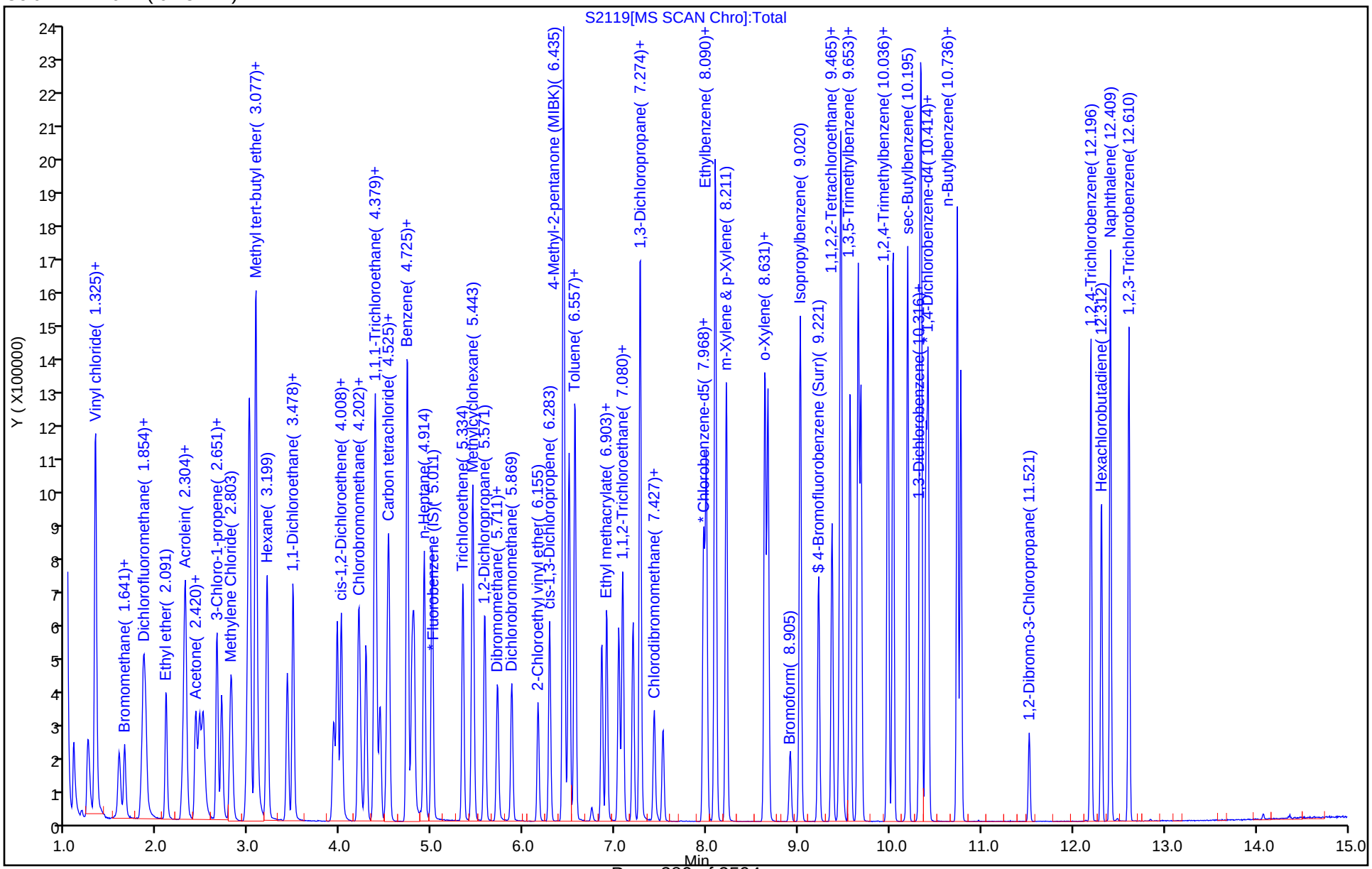
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Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2119.D

Injection Date:	10-Aug-2021 23:49:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	33
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

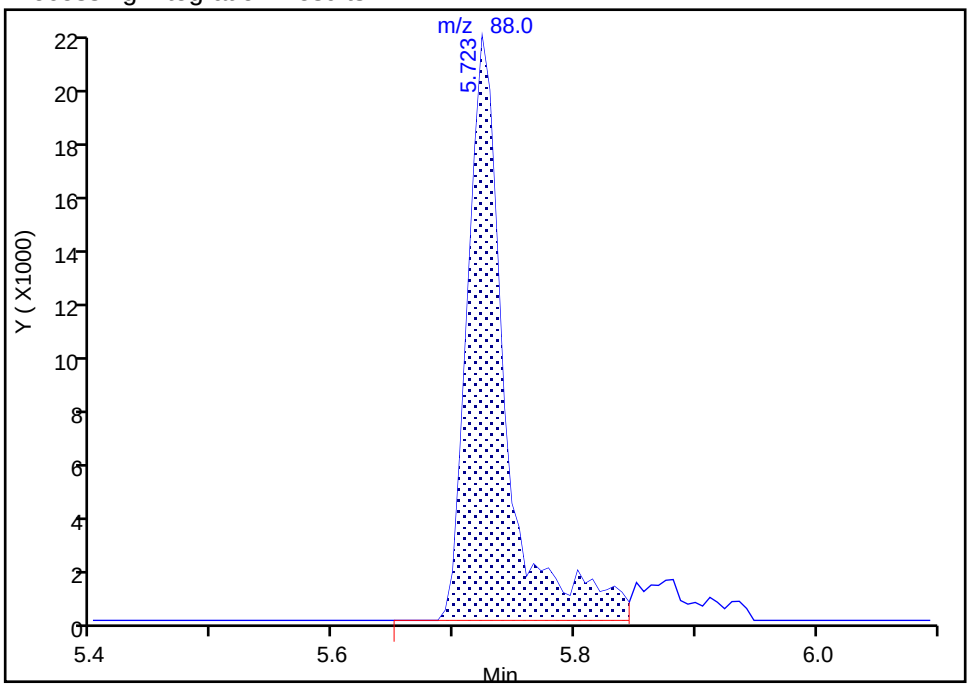
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Injection Date: 10-Aug-2021 23:49:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: LH/AK/AG ALS Bottle#: 33 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

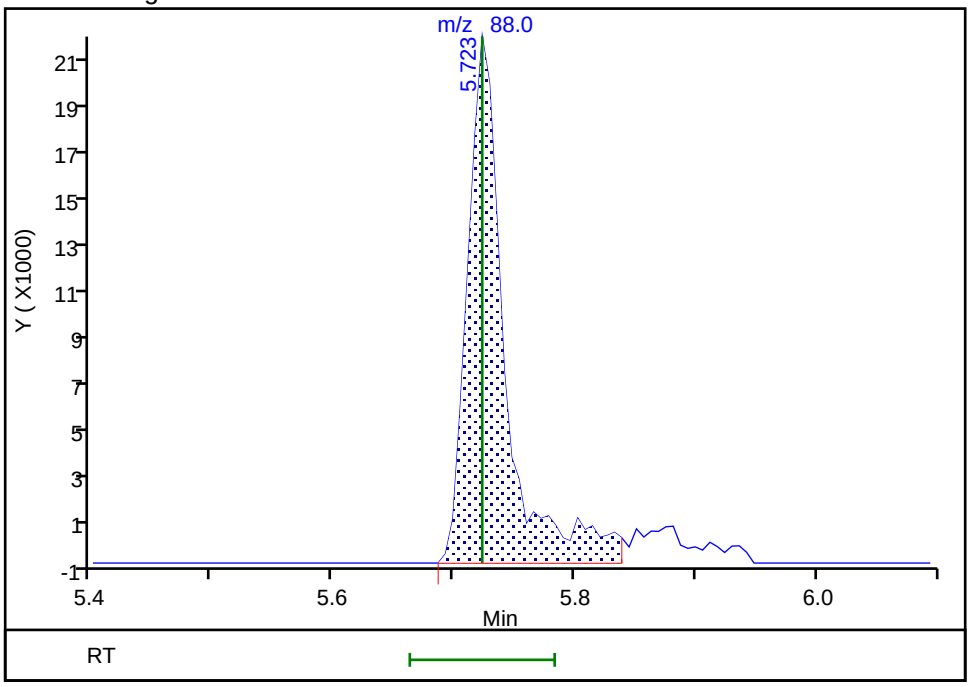
Processing Integration Results

RT: 5.72
Area: 47868
Amount: 509.8657
Amount Units: ug/L



Manual Integration Results

RT: 5.72
Area: 47702
Amount: 508.0975
Amount Units: ug/L



Reviewer: lapointec, 11-Aug-2021 08:16:31
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

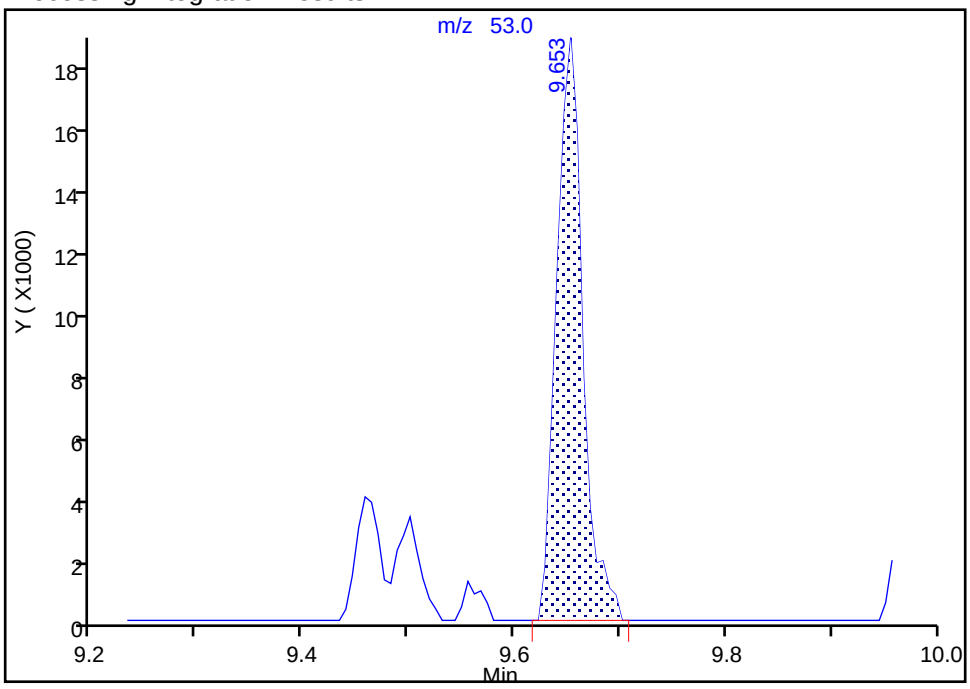
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Injection Date: 10-Aug-2021 23:49:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: LH/AK/AG ALS Bottle#: 33 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

98 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

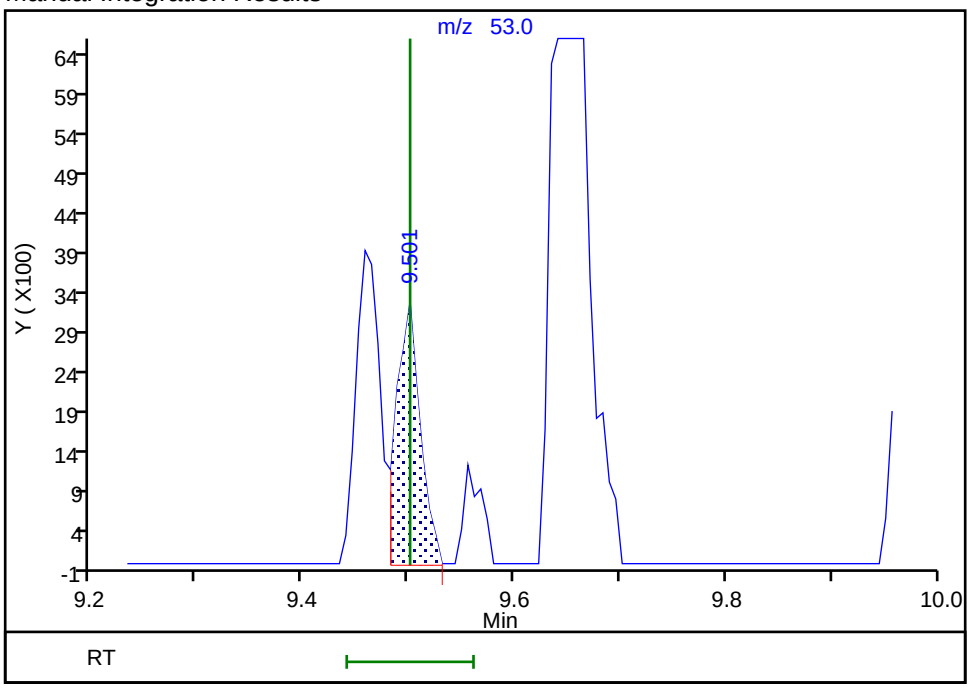
Processing Integration Results

RT: 9.65
Area: 31666
Amount: 10.377889
Amount Units: ug/L



Manual Integration Results

RT: 9.50
Area: 5192
Amount: 1.701573
Amount Units: ug/L



Reviewer: lapointec, 11-Aug-2021 16:56:31
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1600.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 28-Jul-2021 16:36:30 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0100106-004
Operator ID: LH Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 29-Jul-2021 10:47:32 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1632

First Level Reviewer: HillL Date: 28-Jul-2021 16:47:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.388	3.388	0.000	0	364311	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

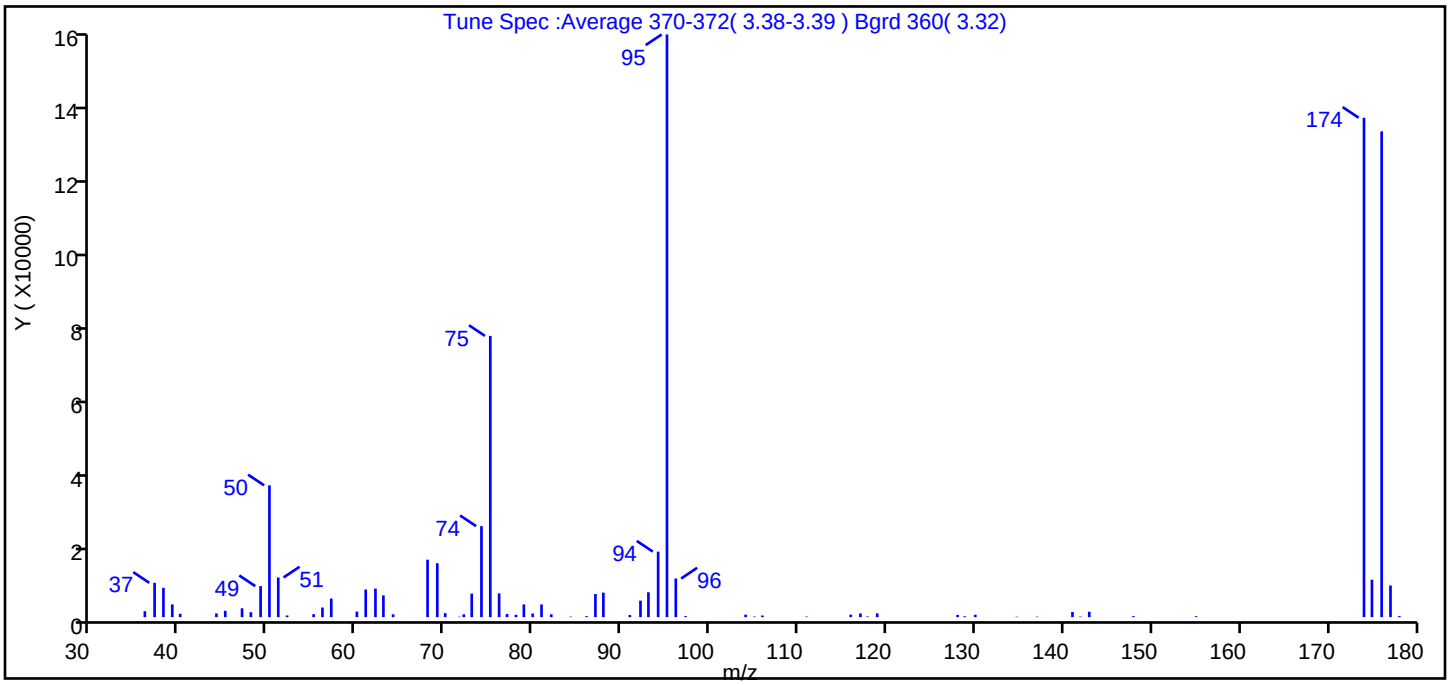
BFB_WRK_00124 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1600.D
Injection Date: 28-Jul-2021 16:36:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.6
75	30 to 60% of m/z 95	48.3
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.7
175	5 to 9% of m/z 174	6.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	83.4 (97.3)
177	5 to 9% of m/z 176	5.4 (6.5)

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1600.D\S-8260.rslt\spectra.d
Injection Date: 28-Jul-2021 16:36:30
Spectrum: Tune Spec :Average 370-372(3.38-3.39) Bgrd 360(3.32)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 70

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1614	62.00	7794	84.00	138	119.00	1040
37.00	9369	63.00	5931	86.00	274	128.00	615
38.00	8006	64.00	782	87.00	6298	129.00	241
39.00	3472	68.00	15675	88.00	6692	130.00	639
40.00	920	69.00	14705	91.00	578	135.00	120
44.00	1015	70.00	1086	92.00	4508	137.00	134
45.00	1738	72.00	124	93.00	6784	141.00	1403
47.00	2419	72.00	769	94.00	17880	142.00	150
48.00	1346	73.00	6425	95.00	158976	143.00	1473
49.00	8468	74.00	24832	96.00	10543	148.00	271
50.00	35960	75.00	76736	97.00	287	155.00	249
51.00	10834	76.00	6479	104.00	673	174.00	136256
52.00	467	77.00	850	105.00	159	175.00	10217
55.00	799	78.00	630	106.00	445	176.00	132544
56.00	2629	79.00	3487	111.00	161	177.00	8641
57.00	5072	80.00	984	116.00	681	178.00	280
60.00	1519	81.00	3469	117.00	1022		
61.00	7544	82.00	770	118.00	177		

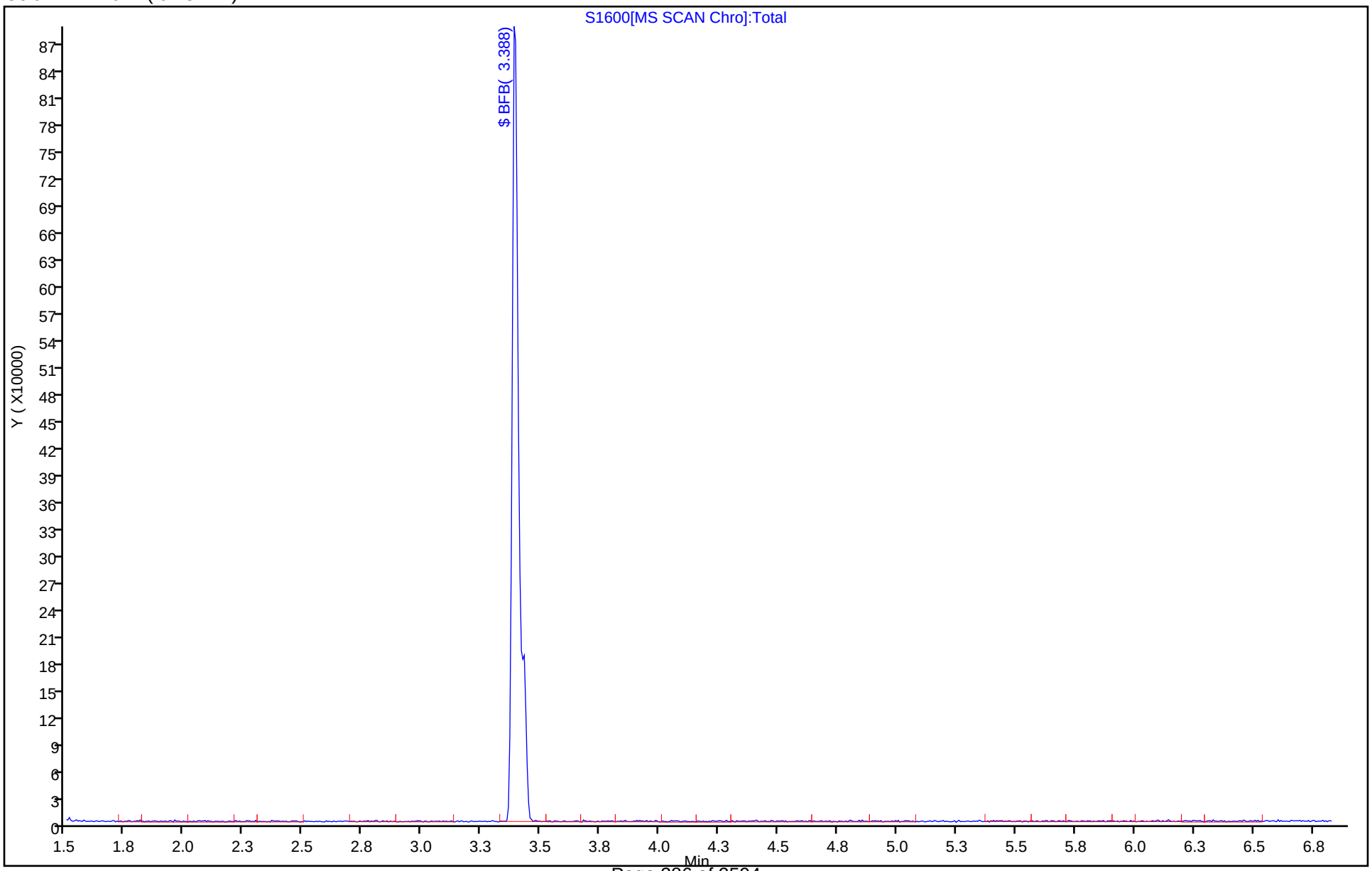
Report Date: 29-Jul-2021 10:47:32 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1600.D

Injection Date:	28-Jul-2021 16:36:30	Instrument ID:	HP5973S	Operator ID:	LH
Lims ID:	BFB			Worklist Smp#:	4
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2038.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	09-Aug-2021 09:33:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0100304-002				
Operator ID:	LH/AK/AG	Instrument ID:	HP5973S		
Method:	\\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	09-Aug-2021 09:44:49	Calib Date:	29-Jul-2021 00:48:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1664				
First Level Reviewer: HillL		Date:	09-Aug-2021 09:44:49		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.376	3.376	0.000	0	319535	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

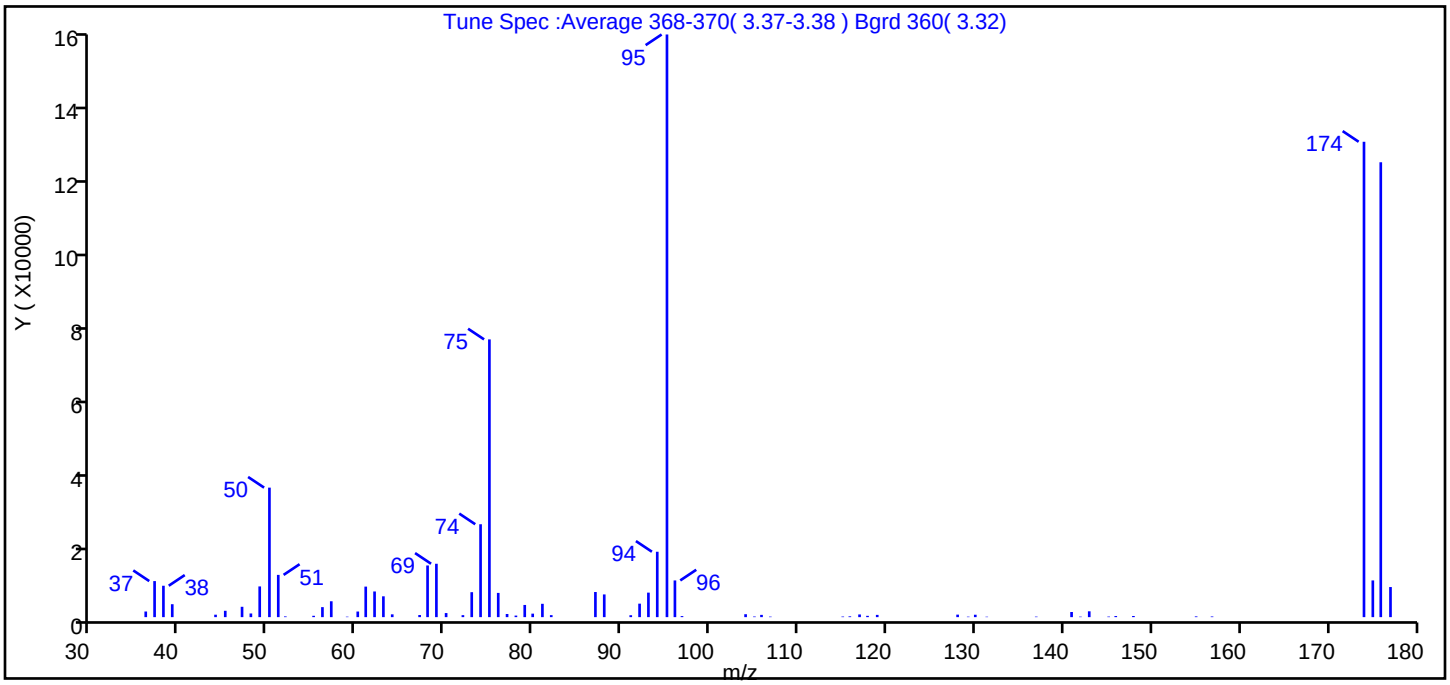
BFB_WRK_00123 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2038.D
Injection Date: 09-Aug-2021 09:33:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: LH/AK/AG ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.2
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	81.6
175	5 to 9% of m/z 174	6.3 (7.7)
176	Greater than 95% but less than 101% of m/z 174	78.1 (95.7)
177	5 to 9% of m/z 176	5.2 (6.6)

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2038.D\S-8260.rslt\spectra.d
Injection Date: 09-Aug-2021 09:33:30
Spectrum: Tune Spec :Average 368-370(3.37-3.38) Bgrd 360(3.32)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1511	62.00	6877	87.00	6734	128.00	674
37.00	9659	63.00	5582	88.00	6086	129.00	129
38.00	8412	64.00	751	91.00	514	130.00	646
39.00	3466	67.00	568	92.00	3614	131.00	116
44.00	657	68.00	13844	93.00	6568	137.00	140
45.00	1701	69.00	14303	94.00	17520	141.00	1378
47.00	2773	70.00	1095	95.00	156096	142.00	131
48.00	983	72.00	533	96.00	9834	143.00	1564
49.00	8229	73.00	6686	97.00	280	145.00	152
50.00	34696	74.00	24888	104.00	785	146.00	296
51.00	11321	75.00	74408	105.00	169	148.00	307
52.00	194	76.00	6493	106.00	608	155.00	200
55.00	362	77.00	844	107.00	136	157.00	179
56.00	2682	78.00	419	115.00	161	174.00	127352
57.00	4256	79.00	3264	116.00	215	175.00	9839
59.00	127	80.00	938	117.00	721	176.00	121864
60.00	1503	81.00	3573	118.00	351	177.00	8064
61.00	8180	82.00	536	119.00	605		

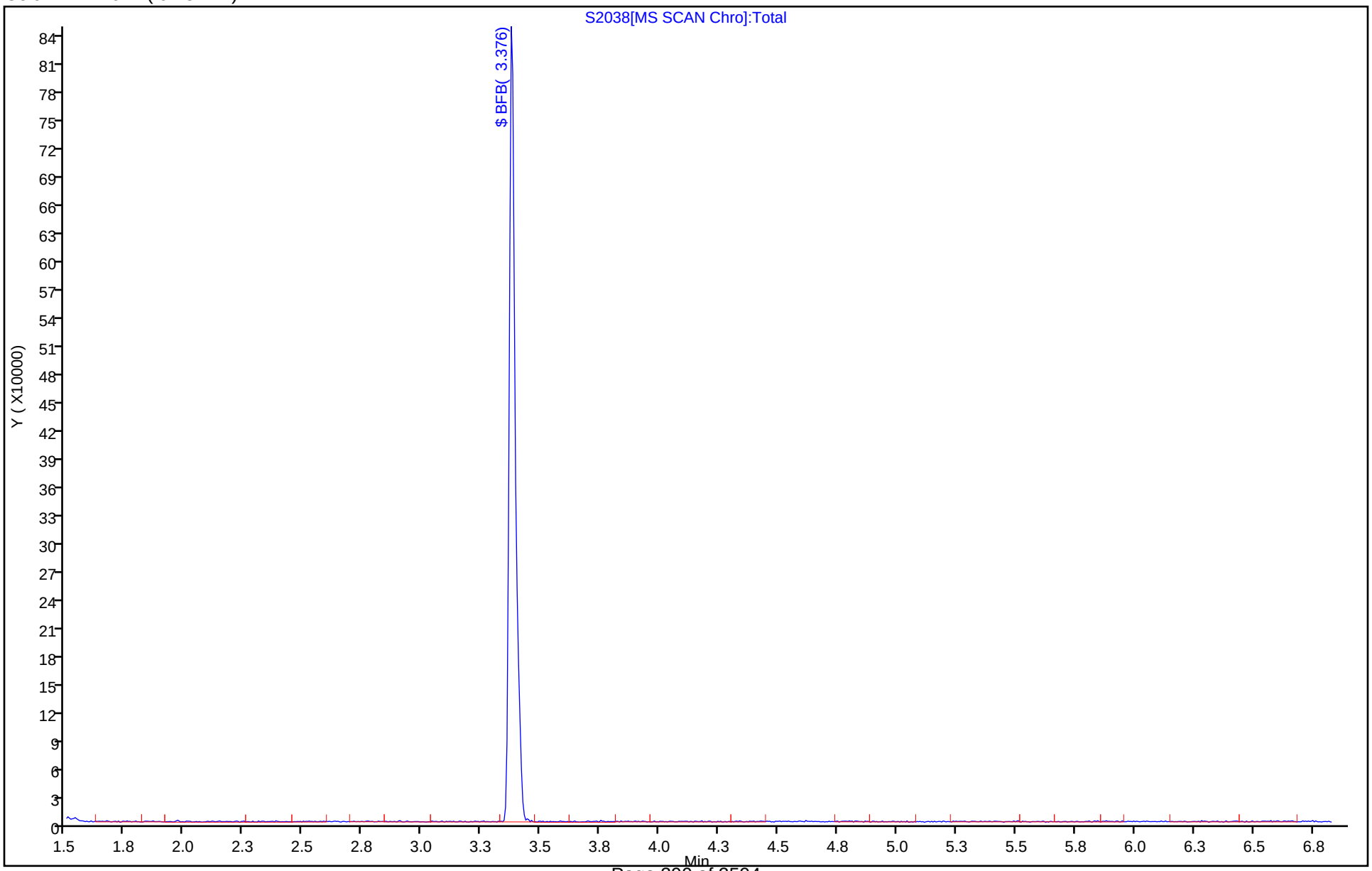
Report Date: 09-Aug-2021 09:44:50 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2038.D

Injection Date:	09-Aug-2021 09:33:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	BFB			Worklist Smp#:	2
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File:	\\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2118.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	10-Aug-2021 23:26:30	ALS Bottle#:	32	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0100343-003				
Operator ID:	LH/AK/AG	Instrument ID:	HP5973S		
Method:	\\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	10-Aug-2021 23:47:44	Calib Date:	29-Jul-2021 00:48:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D				
Column 1 :	ZB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	CTX1621				
First Level Reviewer: dahnw		Date:	10-Aug-2021 23:47:44		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	9.221	9.221	0.000	0	528452	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

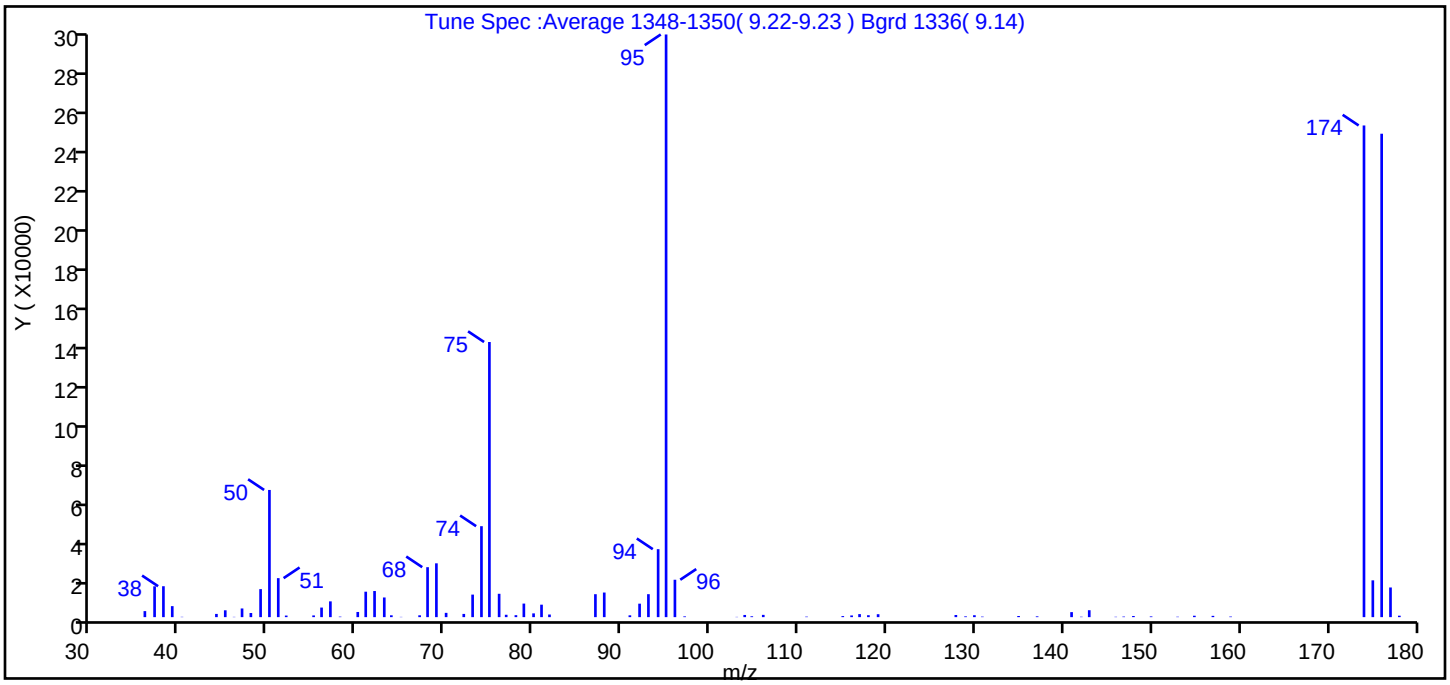
BFB_WRK_00123 Amount Added: 1.00 Units: uL

MS Tune Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2118.D
Injection Date: 10-Aug-2021 23:26:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: LH/AK/AG ALS Bottle#: 32 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.8
75	30 to 60% of m/z 95	47.2
96	5 to 9% of m/z 95	6.4
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	84.4
175	5 to 9% of m/z 174	6.3 (7.5)
176	Greater than 95% but less than 101% of m/z 174	83.0 (98.3)
177	5 to 9% of m/z 176	5.1 (6.1)

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2118.D\S-8260.rslt\spectra.d
Injection Date: 10-Aug-2021 23:26:30
Spectrum: Tune Spec :Average 1348-1350(9.22-9.23) Bgrd 1336(9.14)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3036	62.00	13152	88.00	12393	130.00	969
37.00	15524	63.00	9905	91.00	914	131.00	262
38.00	15572	64.00	930	92.00	6786	135.00	577
39.00	5542	65.00	128	93.00	11565	137.00	403
40.00	158	67.00	929	94.00	34232	141.00	2527
44.00	1625	68.00	25160	95.00	293440	142.00	210
45.00	3450	69.00	27104	96.00	18832	143.00	3486
46.00	134	70.00	2160	97.00	377	146.00	181
47.00	4373	72.00	1626	103.00	126	147.00	283
48.00	2080	73.00	11354	104.00	1098	148.00	568
49.00	14115	74.00	45808	105.00	427	150.00	365
50.00	64056	75.00	138560	106.00	1146	153.00	208
51.00	19640	76.00	11762	111.00	257	155.00	712
52.00	798	77.00	1194	115.00	532	157.00	648
55.00	862	78.00	992	116.00	853	159.00	294
56.00	4829	79.00	6832	117.00	1531	174.00	247616
57.00	7944	80.00	1898	118.00	974	175.00	18536
58.00	255	81.00	6279	119.00	1475	176.00	243456
60.00	2606	82.00	1324	128.00	1080	177.00	14943
61.00	12815	87.00	11557	129.00	387	178.00	734

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Buffalo

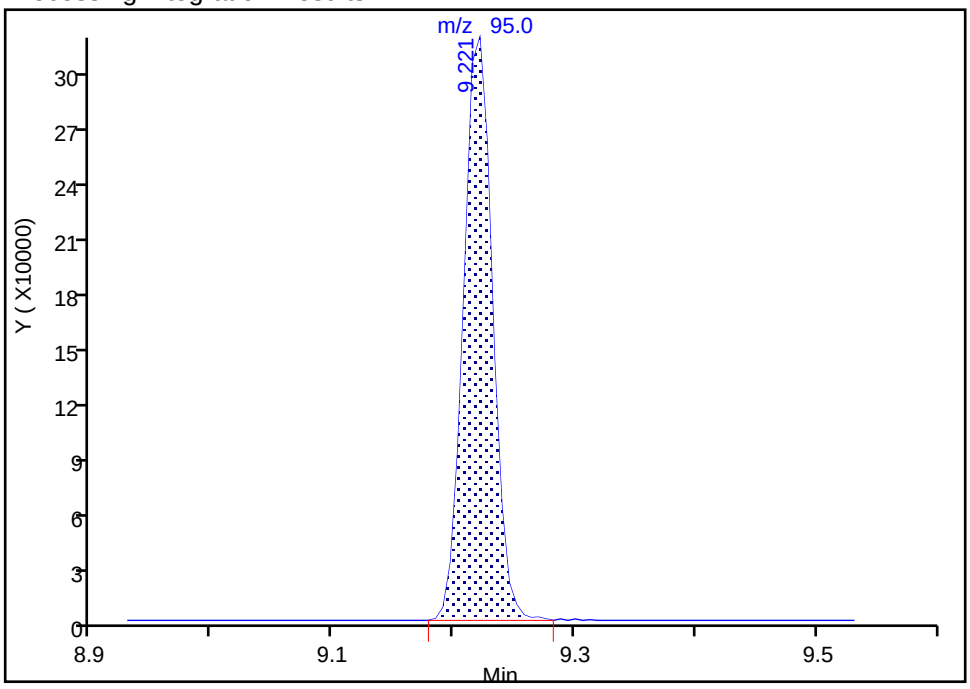
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Injection Date:	10-Aug-2021 23:26:30	Instrument ID:	HP5973S		
Lims ID:	BFB				
Client ID:					
Operator ID:	LH/AK/AG	ALS Bottle#:	32	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.18 mm)	Detector	MS SCAN		

$ 61 BFB, CAS: 460-00-4

Signal: 1

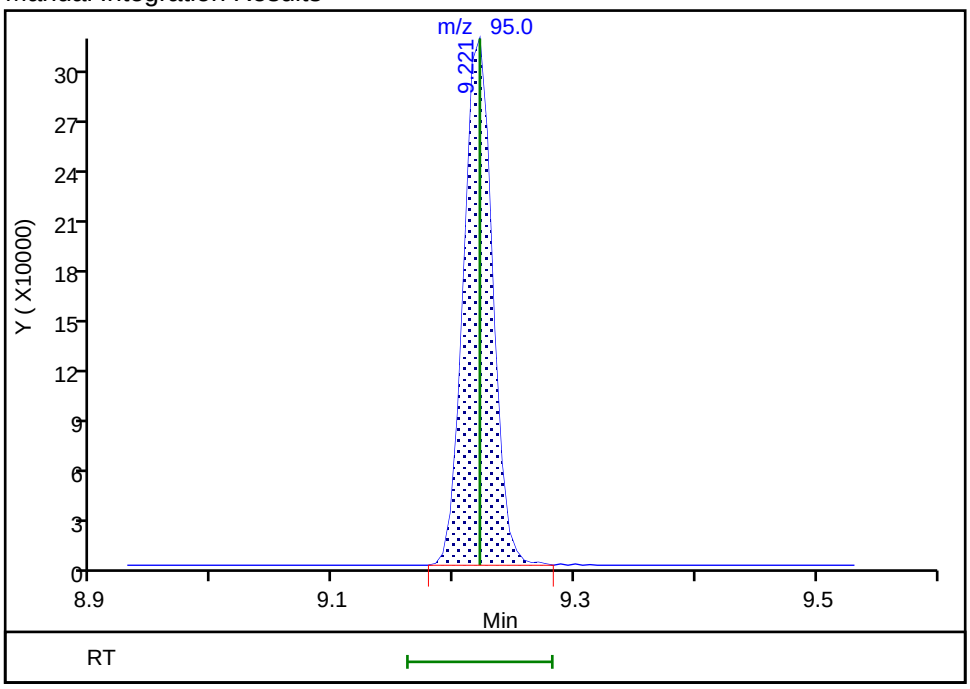
Processing Integration Results

RT: 9.22
Area: 528452
Amount: 0
Amount Units: ug/L



Manual Integration Results

RT: 9.22
Area: 528452
Amount: 0
Amount Units: ug/L



Reviewer: dahnw, 10-Aug-2021 23:47:34

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

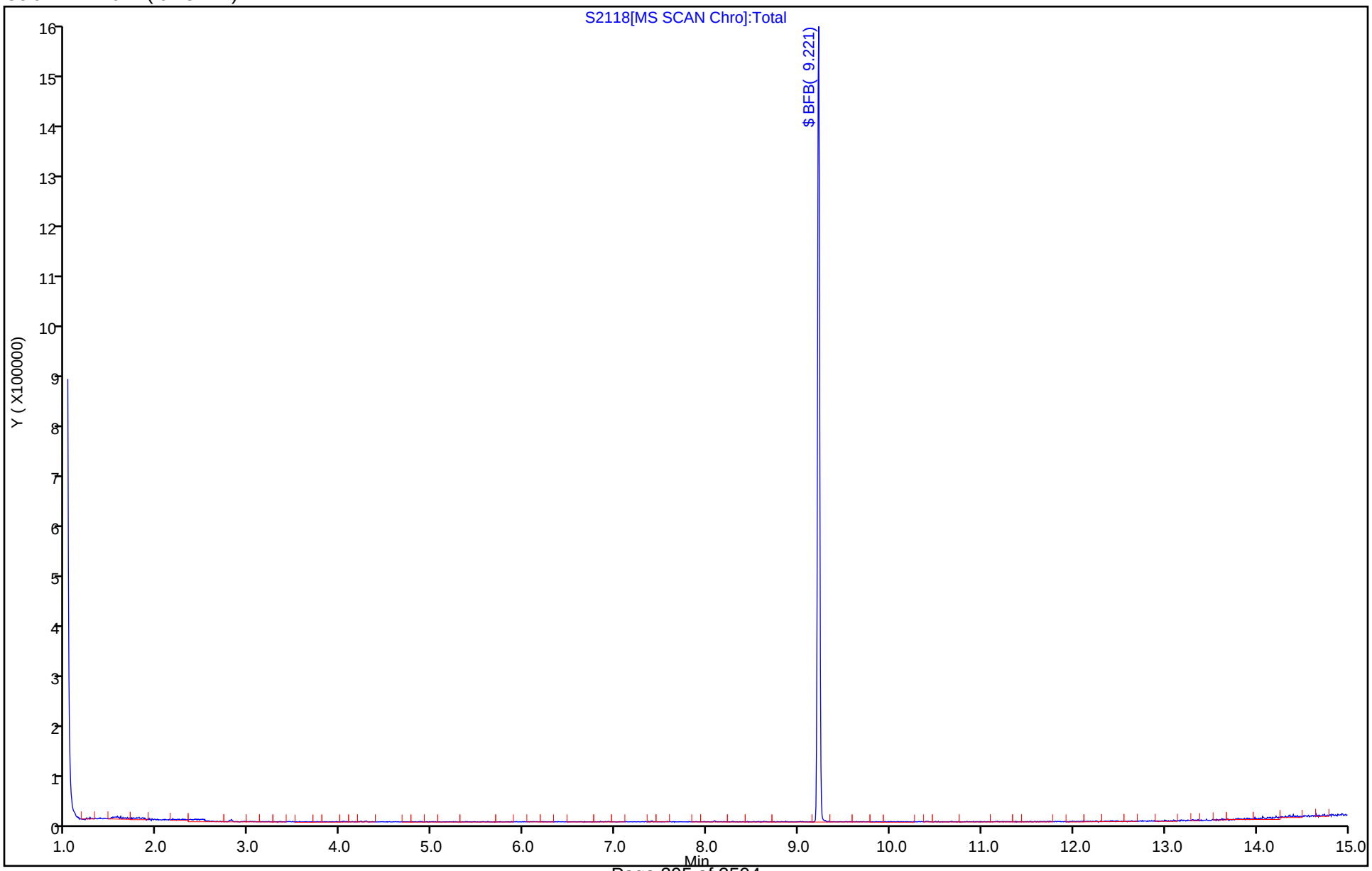
Report Date: 10-Aug-2021 23:47:44 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2118.D

Injection Date:	10-Aug-2021 23:26:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	BFB			Worklist Smp#:	3
Client ID:					
Injection Vol:	1.0 uL	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	S-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.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-592153/7

Matrix: Water Lab File ID: S2043.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 12:03

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.: 592153 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND		1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-592153/7

Matrix: Water Lab File ID: S2043.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 12:03

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	92		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2043.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Aug-2021 12:03:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0100304-007
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 10:01:57 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: HillL Date: 10-Aug-2021 10:01:57

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	4.999	4.999	0.000	99	137124	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	88	267840	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	285529	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.433	-0.006	55	204361	25.0	25.8	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.725	4.732	-0.007	93	121109	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	94	692992	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	213266	25.0	22.9	
10 Dichlorodifluoromethane	85		1.088					ND	
11 Chlorodifluoromethane	51		1.112					ND	
12 Chloromethane	50		1.246					ND	
13 Vinyl chloride	62		1.325					ND	
151 Butadiene	54		1.325					ND	
14 Bromomethane	94		1.580					ND	7
15 Chloroethane	64		1.641					ND	
16 Dichlorofluoromethane	67		1.848					ND	
17 Trichlorofluoromethane	101		1.860					ND	
18 Ethyl ether	59		2.091					ND	
148 Ethanol	45		2.110					ND	
19 Propene oxide	58		2.176					ND	
20 Acrolein	56		2.268					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292					ND	
22 1,1-Dichloroethene	96		2.310					ND	
23 Acetone	43		2.414					ND	
25 Iodomethane	142		2.462					ND	
26 Carbon disulfide	76		2.499					ND	
24 Isopropyl alcohol	45		2.602					ND	
28 3-Chloro-1-propene	41		2.651					ND	
27 Methyl acetate	43		2.700					ND	
29 Acetonitrile	40		2.718					ND	U
30 Methylene Chloride	84		2.809					ND	7
31 2-Methyl-2-propanol	59		2.973					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		2.998					ND	
34 trans-1,2-Dichloroethene	96		3.010					ND	
33 Acrylonitrile	53		3.071					ND	
35 Hexane	57		3.199					ND	
39 1,1-Dichloroethane	63		3.418					ND	
36 Isopropyl ether	45		3.436					ND	
40 2-Chloro-1,3-butadiene	53		3.472					ND	
37 Vinyl acetate	43		3.478					ND	
38 1,1-Dimethoxyethane	75		3.509					ND	
41 Tert-butyl ethyl ether	59		3.770					ND	
139 Halothane	117		3.822					ND	
44 2,2-Dichloropropane	77		3.922					ND	
45 cis-1,2-Dichloroethene	96		3.965					ND	
43 2-Butanone (MEK)	43		4.008					ND	
42 Ethyl acetate	43		4.044					ND	
46 Propionitrile	54		4.111					ND	
48 Chlorobromomethane	128		4.196					ND	
49 Tetrahydrofuran	42		4.208					ND	
47 Methacrylonitrile	41		4.214					ND	
50 Chloroform	83		4.275					ND	
52 Cyclohexane	56		4.379					ND	
51 1,1,1-Trichloroethane	97		4.379					ND	
55 Carbon tetrachloride	117		4.506					ND	
54 1,1-Dichloropropene	75		4.525					ND	
152 Isooctane	57		4.725					ND	
57 Benzene	78		4.725					ND	
53 Isobutyl alcohol	43		4.780					ND	
58 1,2-Dichloroethane	62		4.798					ND	
56 Tert-amyl methyl ether	73		4.811					ND	
147 t-Amyl alcohol	59		4.829					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.877					ND	
59 n-Heptane	43		4.914					ND	
1 1,4-Difluorobenzene	114		5.115					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
62 Trichloroethene	95		5.334					ND	
60 n-Butanol	56		5.395					ND	
64 Methylcyclohexane	83		5.443					ND	
142 Ethyl acrylate	55		5.480					ND	
65 1,2-Dichloropropane	63		5.571					ND	
63 Methyl methacrylate	41		5.687					ND	
67 Dibromomethane	93		5.711					ND	
66 1,4-Dioxane	88		5.723					ND	
68 Dichlorobromomethane	83		5.869					ND	
70 2-Nitropropane	43		6.125					ND	
69 2-Chloroethyl vinyl ether	63		6.155					ND	
71 Epichlorohydrin	57		6.246					ND	
72 cis-1,3-Dichloropropene	75		6.283					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435					ND	
74 Toluene	92		6.563					ND	
76 2-Methylthiophene	97		6.697					ND	
77 trans-1,3-Dichloropropene	75		6.855					ND	
78 3-Methylthiophene	97		6.861					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		6.909					ND	
79 1,1,2-Trichloroethane	83		7.037					ND	
81 Tetrachloroethene	166		7.080					ND	
82 1,3-Dichloropropane	76		7.195					ND	
80 2-Hexanone	43		7.275					ND	
155 n-Butyl acetate	43		7.384					ND	
83 Chlorodibromomethane	129		7.427					ND	
84 Ethylene Dibromide	107		7.524					ND	
146 1-Chlorohexane	55		7.956					ND	U
85 3-Chlorobenzotrifluoride	180		7.986					ND	
87 Chlorobenzene	112		7.992					ND	
86 4-Chlorobenzotrifluoride	180		8.047					ND	
88 Ethylbenzene	91		8.090					ND	
89 1,1,1,2-Tetrachloroethane	131		8.096					ND	
90 m-Xylene & p-Xylene	106		8.211					ND	
91 o-Xylene	106		8.637					ND	
92 Styrene	104		8.668					ND	
95 Bromoform	173		8.911					ND	
93 2-Chlorobenzotrifluoride	180		8.954					ND	
94 Isopropylbenzene	105		9.020					ND	
96 Cyclohexanone	55		9.191					ND	
101 Bromobenzene	156		9.367					ND	
97 1,1,2,2-Tetrachloroethane	83		9.452					ND	
99 N-Propylbenzene	91		9.465					ND	
100 1,2,3-Trichloropropane	110		9.477					ND	
98 trans-1,4-Dichloro-2-butene	53		9.501					ND	
103 2-Chlorotoluene	126		9.568					ND	
104 3-Chlorotoluene	126		9.635					ND	
102 1,3,5-Trimethylbenzene	105		9.653					ND	
105 4-Chlorotoluene	126		9.684					ND	
106 tert-Butylbenzene	134		9.976					ND	
108 Pentachloroethane	167		10.036					ND	
107 1,2,4-Trimethylbenzene	105		10.036					ND	
109 sec-Butylbenzene	105		10.195					ND	
111 1,3-Dichlorobenzene	146		10.328					ND	
110 4-Isopropyltoluene	119		10.341					ND	
114 Dicyclopentadiene	66		10.389					ND	
113 1,4-Dichlorobenzene	146		10.420					ND	
112 1,2,3-Trimethylbenzene	105		10.450					ND	
150 Benzyl chloride	126		10.572					ND	
115 n-Butylbenzene	91		10.736					ND	7
116 1,2-Dichlorobenzene	146		10.773					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521					ND	
118 1,3,5-Trichlorobenzene	180		11.649					ND	
119 1,2,4-Trichlorobenzene	180		12.196					ND	
120 Hexachlorobutadiene	225		12.312					ND	
121 Naphthalene	128		12.409					ND	
122 1,2,3-Trichlorobenzene	180		12.610					ND	
149 2-Methylnaphthalene	142	13.322	13.322	0.000	1	1322		0.0406	7
135 Hexachloroethane	117		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
137 Methyl acrylate	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
136 Nitrobenzene	77		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

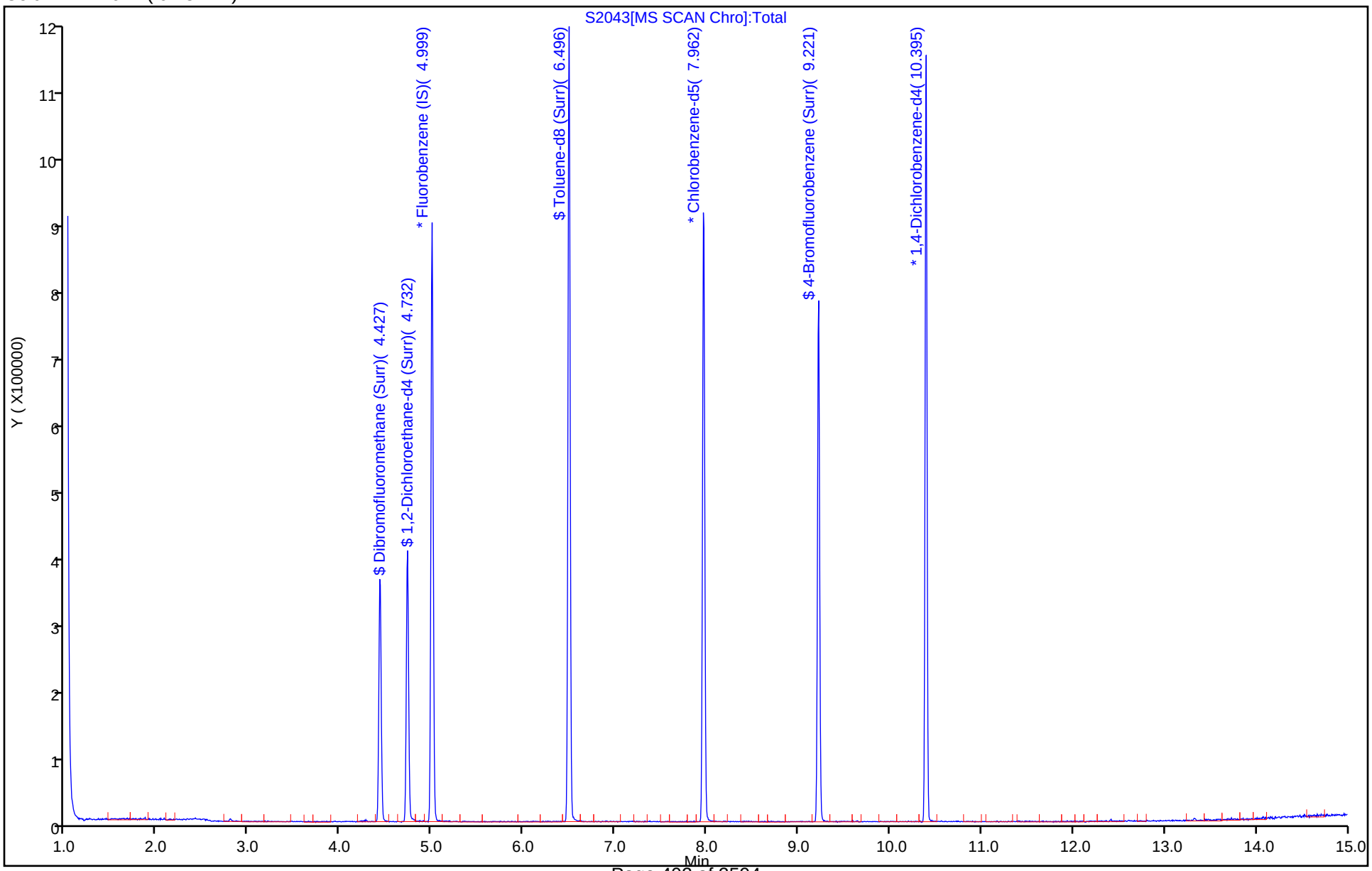
Report Date: 10-Aug-2021 10:01:57 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2043.D

Injection Date:	09-Aug-2021 12:03:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	S-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.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-592370/8

Matrix: Water Lab File ID: S2123.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/11/2021 01:21

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.: 592370 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
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
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
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
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
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
124-48-1	Dibromochloromethane	ND		1.0	0.32
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
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 480-592370/8

Matrix: Water Lab File ID: S2123.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/11/2021 01:21

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.: 592370 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
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
2037-26-5	Toluene-d8 (Surr)	98		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2123.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 11-Aug-2021 01:21:30 ALS Bottle#: 37 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0100343-008
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Aug-2021 08:32:03 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1631

First Level Reviewer: lapointec Date: 11-Aug-2021 08:32:03

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	4.999	4.999	0.000	98	123783	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.968	7.962	0.006	84	236681	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	94	276942	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.433	0.000	56	181532	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	93	109498	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	94	609715	25.0	24.4	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	88	204686	25.0	24.9	
10 Dichlorodifluoromethane	85		1.088					ND	
11 Chlorodifluoromethane	51		1.106					ND	
12 Chloromethane	50		1.240					ND	
13 Vinyl chloride	62		1.319					ND	
151 Butadiene	54		1.325					ND	
14 Bromomethane	94		1.580					ND	
15 Chloroethane	64		1.641					ND	
16 Dichlorofluoromethane	67		1.848					ND	
17 Trichlorofluoromethane	101		1.860					ND	
18 Ethyl ether	59		2.091					ND	
148 Ethanol	45		2.116					ND	
19 Propene oxide	58		2.176					ND	
20 Acrolein	56		2.268					ND	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.292					ND	
22 1,1-Dichloroethene	96		2.304					ND	
23 Acetone	43		2.420					ND	
25 Iodomethane	142		2.456					ND	
26 Carbon disulfide	76		2.499					ND	U
24 Isopropyl alcohol	45		2.602					ND	
28 3-Chloro-1-propene	41		2.651					ND	
27 Methyl acetate	43		2.700					ND	
29 Acetonitrile	40		2.724					ND	U
30 Methylene Chloride	84		2.803					ND	MU
31 2-Methyl-2-propanol	59		2.973					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		2.998					ND	
34 trans-1,2-Dichloroethene	96		3.010					ND	
33 Acrylonitrile	53		3.077					ND	
35 Hexane	57		3.199					ND	
39 1,1-Dichloroethane	63		3.418					ND	
36 Isopropyl ether	45		3.436					ND	
40 2-Chloro-1,3-butadiene	53		3.472					ND	
37 Vinyl acetate	43		3.478					ND	
38 1,1-Dimethoxyethane	75		3.515					ND	
41 Tert-butyl ethyl ether	59		3.770					ND	
139 Halothane	117		3.822					ND	
44 2,2-Dichloropropane	77		3.922					ND	
45 cis-1,2-Dichloroethene	96		3.965					ND	
43 2-Butanone (MEK)	43		4.008					ND	
42 Ethyl acetate	43		4.044					ND	
46 Propionitrile	54		4.111					ND	
48 Chlorobromomethane	128		4.196					ND	
49 Tetrahydrofuran	42		4.208					ND	
47 Methacrylonitrile	41		4.214					ND	
50 Chloroform	83		4.275					ND	U
52 Cyclohexane	56		4.379					ND	
51 1,1,1-Trichloroethane	97		4.379					ND	
55 Carbon tetrachloride	117		4.513					ND	
54 1,1-Dichloropropene	75		4.525					ND	
57 Benzene	78		4.725					ND	
152 Isooctane	57		4.726					ND	
53 Isobutyl alcohol	43		4.780					ND	
58 1,2-Dichloroethane	62		4.805					ND	
56 Tert-amyl methyl ether	73		4.817					ND	
147 t-Amyl alcohol	59		4.829					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.877					ND	
59 n-Heptane	43		4.914					ND	
1 1,4-Difluorobenzene	114		5.115					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
62 Trichloroethene	95		5.334					ND	
60 n-Butanol	56		5.401					ND	
64 Methylcyclohexane	83		5.443					ND	
142 Ethyl acrylate	55		5.480					ND	
65 1,2-Dichloropropane	63		5.577					ND	
63 Methyl methacrylate	41		5.687					ND	
67 Dibromomethane	93		5.711					ND	
66 1,4-Dioxane	88		5.723					ND	
68 Dichlorobromomethane	83		5.869					ND	
70 2-Nitropropane	43		6.125					ND	
69 2-Chloroethyl vinyl ether	63		6.155					ND	
71 Epichlorohydrin	57		6.246					ND	
72 cis-1,3-Dichloropropene	75		6.283					ND	
73 4-Methyl-2-pentanone (MIBK)	43		6.435					ND	
74 Toluene	92		6.563					ND	
76 2-Methylthiophene	97		6.697					ND	
77 trans-1,3-Dichloropropene	75		6.855					ND	
78 3-Methylthiophene	97		6.861					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
75 Ethyl methacrylate	69		6.903					ND	
79 1,1,2-Trichloroethane	83		7.037					ND	
81 Tetrachloroethene	166		7.080					ND	
82 1,3-Dichloropropane	76		7.195					ND	
80 2-Hexanone	43		7.274					ND	
155 n-Butyl acetate	43		7.384					ND	
83 Chlorodibromomethane	129		7.427					ND	
84 Ethylene Dibromide	107		7.524					ND	
146 1-Chlorohexane	55		7.956					ND	U
85 3-Chlorobenzotrifluoride	180		7.980					ND	
87 Chlorobenzene	112		7.992					ND	
86 4-Chlorobenzotrifluoride	180		8.047					ND	
88 Ethylbenzene	91		8.090					ND	
89 1,1,1,2-Tetrachloroethane	131		8.096					ND	
90 m-Xylene & p-Xylene	106		8.211					ND	
91 o-Xylene	106		8.631					ND	
92 Styrene	104		8.668					ND	
95 Bromoform	173		8.911					ND	
93 2-Chlorobenzotrifluoride	180		8.954					ND	
94 Isopropylbenzene	105		9.020					ND	
96 Cyclohexanone	55		9.191					ND	
101 Bromobenzene	156		9.367					ND	
97 1,1,2,2-Tetrachloroethane	83		9.452					ND	
98 trans-1,4-Dichloro-2-butene	53		9.458					ND	
99 N-Propylbenzene	91		9.465					ND	
100 1,2,3-Trichloropropane	110		9.477					ND	
103 2-Chlorotoluene	126		9.562					ND	
104 3-Chlorotoluene	126		9.635					ND	
102 1,3,5-Trimethylbenzene	105		9.653					ND	
105 4-Chlorotoluene	126		9.684					ND	
106 tert-Butylbenzene	134		9.976					ND	
107 1,2,4-Trimethylbenzene	105		10.036					ND	
108 Pentachloroethane	167		10.036					ND	
109 sec-Butylbenzene	105		10.195					ND	
111 1,3-Dichlorobenzene	146		10.322					ND	
110 4-Isopropyltoluene	119		10.341					ND	
114 Dicyclopentadiene	66		10.389					ND	
113 1,4-Dichlorobenzene	146		10.414					ND	
112 1,2,3-Trimethylbenzene	105		10.450					ND	
150 Benzyl chloride	126		10.572					ND	
115 n-Butylbenzene	91		10.736					ND	
116 1,2-Dichlorobenzene	146		10.773					ND	
117 1,2-Dibromo-3-Chloropropane	75		11.521					ND	
118 1,3,5-Trichlorobenzene	180		11.649					ND	
119 1,2,4-Trichlorobenzene	180		12.196					ND	
120 Hexachlorobutadiene	225		12.312					ND	
121 Naphthalene	128		12.409					ND	
122 1,2,3-Trichlorobenzene	180		12.610					ND	
149 2-Methylnaphthalene	142	13.328	13.322	0.006	1	1571		0.0497	7
135 Hexachloroethane	117		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
137 Methyl acrylate	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
136 Nitrobenzene	77		0.000					ND	
134 Pentachloroethane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	7
S 126 1,3-Dichloropropene, Total	1		30.000					ND	7
S 125 1,2-Dichloroethene, Total	1		30.000					ND	7
S 124 Xylenes, Total	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

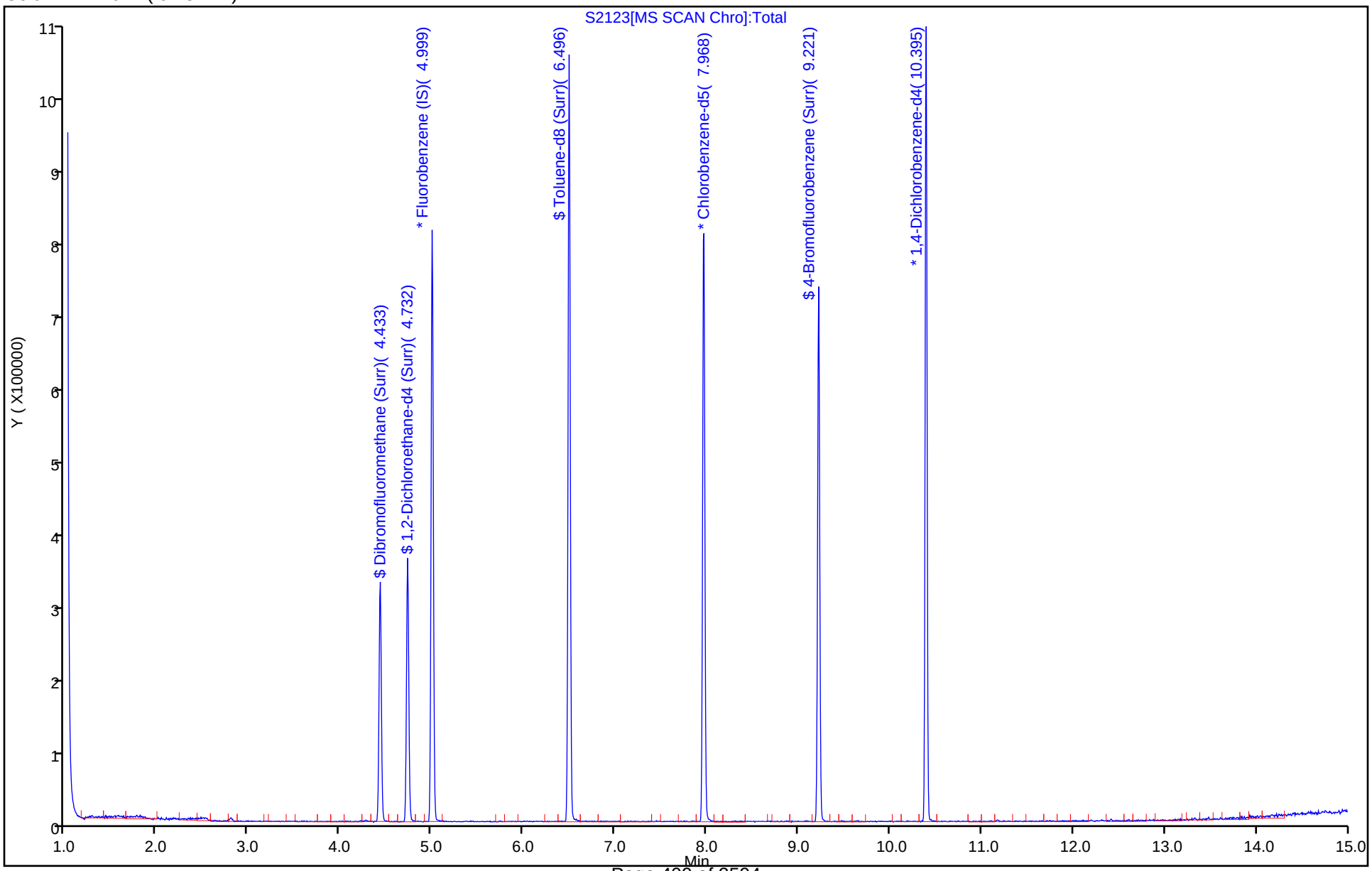
Report Date: 11-Aug-2021 08:32:03 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2123.D

Injection Date:	11-Aug-2021 01:21:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



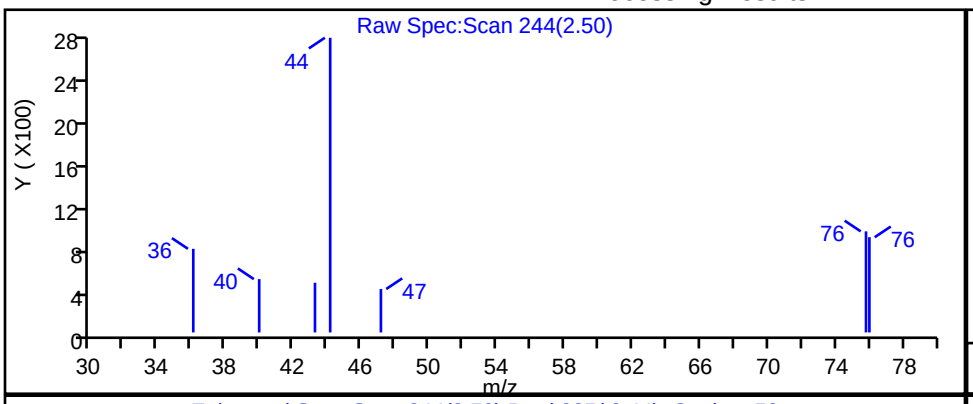
User Disabled Compound Report

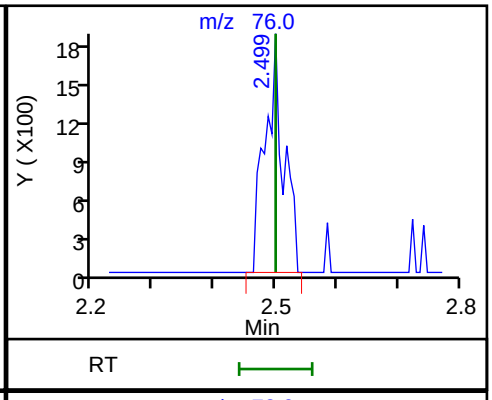
Eurofins TestAmerica, Buffalo

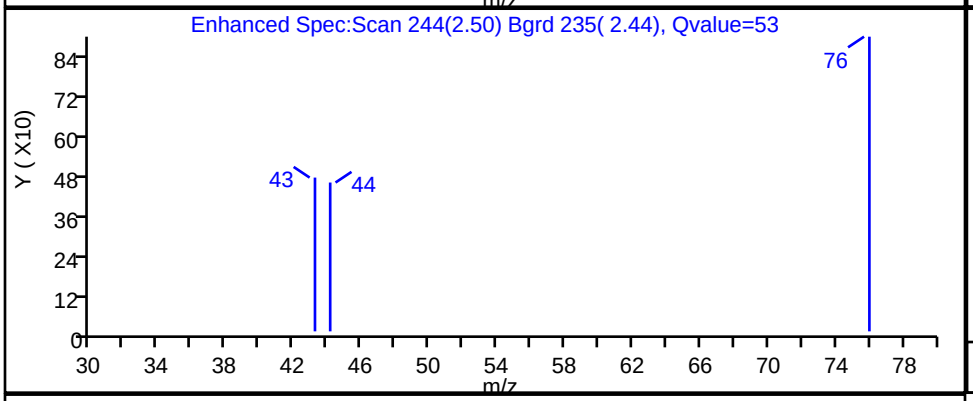
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Injection Date: 11-Aug-2021 01:21:30 Instrument ID: HP5973S
Lims ID: MB
Client ID:
Operator ID: LH/AK/AG ALS Bottle#: 37 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

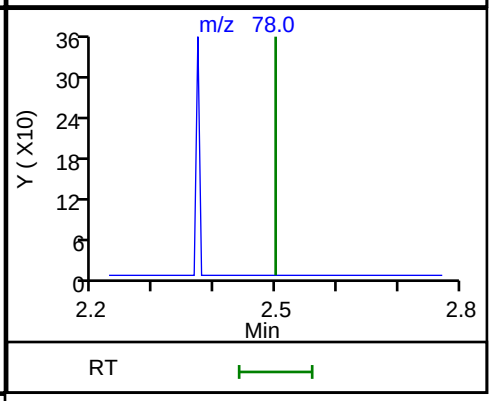
26 Carbon disulfide, CAS: 75-15-0

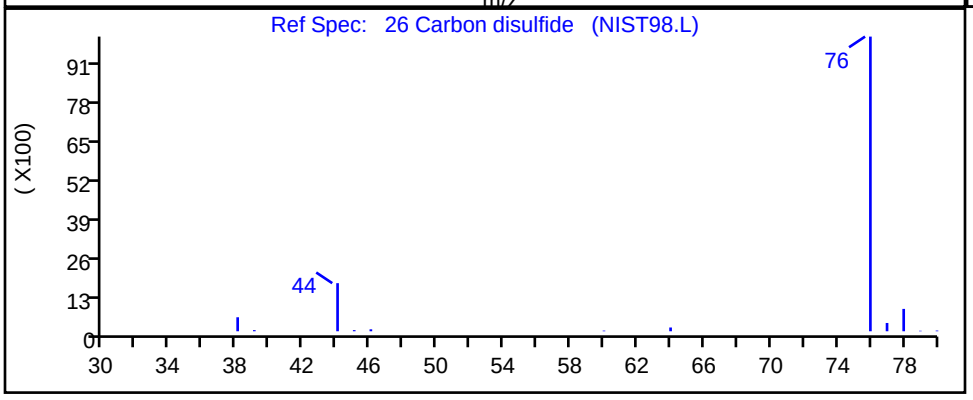
Processing Results











RT	Mass	Response	Amount
2.50	76.00	3862	0.160330
2.50	78.00	0	

Reviewer: lapointec, 11-Aug-2021 08:30:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

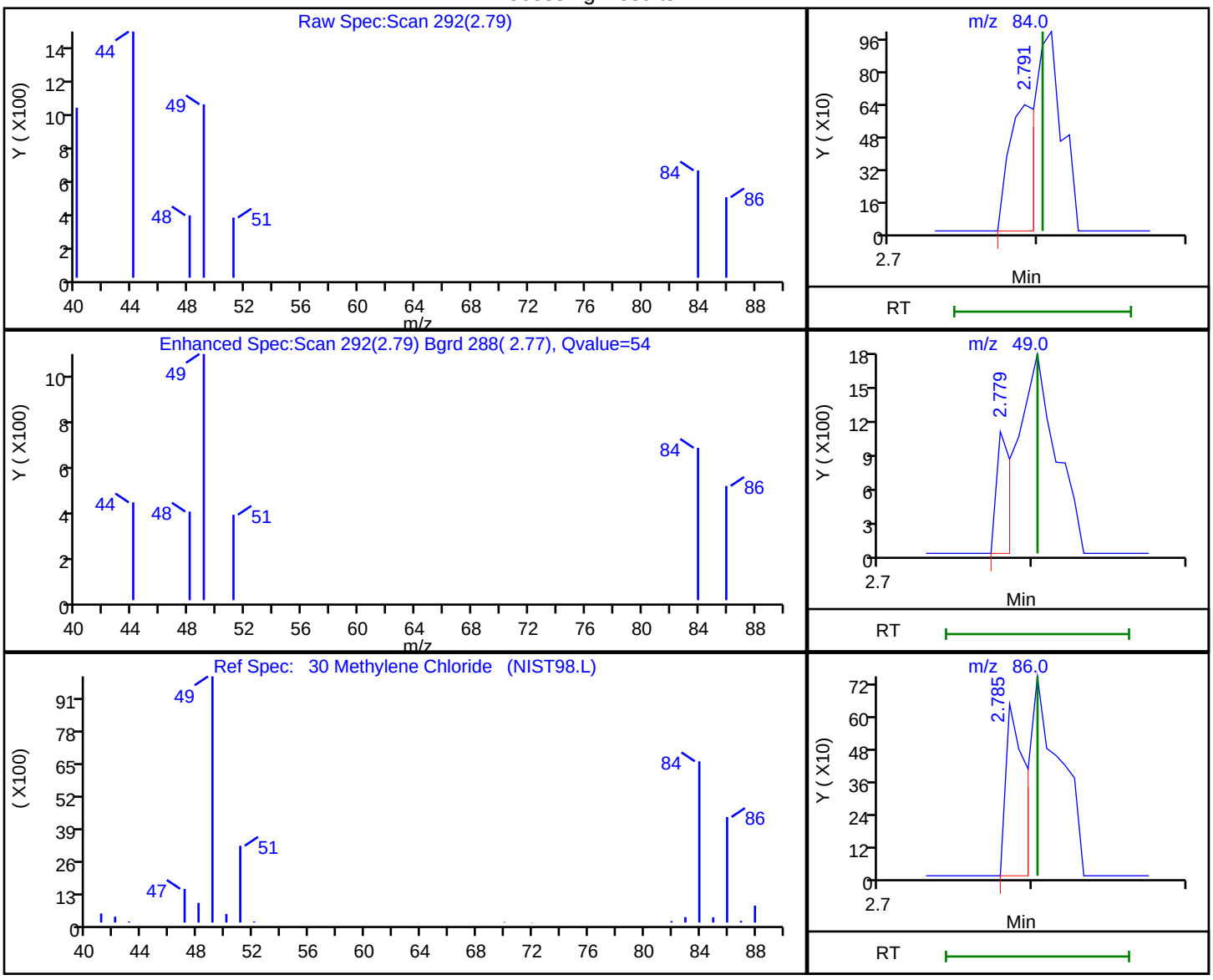
User Disabled Compound Report

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2123.D
Injection Date: 11-Aug-2021 01:21:30 Instrument ID: HP5973S
Lims ID: MB
Client ID:
Operator ID: LH/AK/AG ALS Bottle#: 37 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-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
2.79	84.00	792	-0.469742
2.78	49.00	684	
2.78	86.00	550	

Reviewer: lapointec, 11-Aug-2021 08:31:22
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.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-592153/5

Matrix: Water Lab File ID: S2041.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 11:17

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.6		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	23.8		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.2		1.0	0.31
75-34-3	1,1-Dichloroethane	24.4		1.0	0.38
75-35-4	1,1-Dichloroethene	22.5		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.5		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	39.3		1.0	0.39
95-50-1	1,2-Dichlorobenzene	22.6		1.0	0.79
107-06-2	1,2-Dichloroethane	23.5		1.0	0.21
78-87-5	1,2-Dichloropropane	24.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.6		1.0	0.84
78-93-3	2-Butanone (MEK)	146		10	1.3
591-78-6	2-Hexanone	151		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	135		5.0	2.1
67-64-1	Acetone	137		10	3.0
71-43-2	Benzene	24.2		1.0	0.41
75-27-4	Bromodichloromethane	28.4		1.0	0.39
75-25-2	Bromoform	33.9		1.0	0.26
74-83-9	Bromomethane	22.1		1.0	0.69
75-15-0	Carbon disulfide	21.7		1.0	0.19
56-23-5	Carbon tetrachloride	30.9		1.0	0.27
108-90-7	Chlorobenzene	23.2		1.0	0.75
124-48-1	Dibromochloromethane	34.3		1.0	0.32
75-00-3	Chloroethane	23.5		1.0	0.32
67-66-3	Chloroform	23.2		1.0	0.34
74-87-3	Chloromethane	21.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.0		1.0	0.36
110-82-7	Cyclohexane	24.7		1.0	0.18
75-71-8	Dichlorodifluoromethane	22.8		1.0	0.68
100-41-4	Ethylbenzene	23.6		1.0	0.74
106-93-4	1,2-Dibromoethane	25.8		1.0	0.73
98-82-8	Isopropylbenzene	24.2		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-592153/5

Matrix: Water Lab File ID: S2041.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 11:17

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	52.1		2.5	1.3
1634-04-4	Methyl tert-butyl ether	22.4		1.0	0.16
108-87-2	Methylcyclohexane	25.4		1.0	0.16
75-09-2	Methylene Chloride	22.9		1.0	0.44
100-42-5	Styrene	24.4		1.0	0.73
127-18-4	Tetrachloroethene	23.9		1.0	0.36
108-88-3	Toluene	23.2		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.5		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.2		1.0	0.37
79-01-6	Trichloroethene	24.2		1.0	0.46
75-69-4	Trichlorofluoromethane	24.3		1.0	0.88
75-01-4	Vinyl chloride	22.4		1.0	0.90
1330-20-7	Xylenes, Total	46.9		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2041.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Aug-2021 11:17:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0100304-005
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 09:59:26 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1609

First Level Reviewer: HillL Date: 10-Aug-2021 09:59:26

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	4.999	4.999	0.000	98	144226	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	86	292185	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	52	315123	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.433	-0.006	57	211990	25.0	25.4	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	53	131237	25.0	26.3	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	57	759662	25.0	24.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	89	244357	25.0	24.1	
10 Dichlorodifluoromethane	85	1.088	1.088	0.000	87	232857	25.0	22.8	
12 Chloromethane	50	1.246	1.246	0.000	89	331907	25.0	21.5	
13 Vinyl chloride	62	1.319	1.325	-0.006	67	293046	25.0	22.4	
151 Butadiene	54	1.325	1.325	0.000	68	302128	25.0	23.9	
14 Bromomethane	94	1.580	1.580	0.000	91	166394	25.0	22.1	
15 Chloroethane	64	1.641	1.641	0.000	95	181826	25.0	23.5	
16 Dichlorofluoromethane	67	1.848	1.848	0.000	82	374480	25.0	21.8	
17 Trichlorofluoromethane	101	1.854	1.860	-0.006	52	325674	25.0	24.3	
18 Ethyl ether	59	2.091	2.091	0.000	97	241997	25.0	24.8	
20 Acrolein	56	2.262	2.268	-0.006	95	61915	125.0	110.4	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.292	2.292	0.000	75	196850	25.0	24.2	
22 1,1-Dichloroethene	96	2.304	2.310	-0.006	85	183861	25.0	22.5	
23 Acetone	43	2.414	2.414	0.000	98	652384	125.0	136.6	
25 Iodomethane	142	2.462	2.462	0.000	99	333011	25.0	20.9	
26 Carbon disulfide	76	2.499	2.499	0.000	99	609560	25.0	21.7	
28 3-Chloro-1-propene	41	2.645	2.651	-0.006	87	454734	25.0	25.0	
27 Methyl acetate	43	2.700	2.700	0.000	96	541830	50.0	52.1	
30 Methylene Chloride	84	2.803	2.809	-0.006	93	232435	25.0	22.9	
31 2-Methyl-2-propanol	59	2.973	2.973	0.000	72	284046	250.0	246.7	
32 Methyl tert-butyl ether	73	2.992	2.998	-0.006	93	755200	25.0	22.4	
34 trans-1,2-Dichloroethene	96	3.004	3.010	-0.006	78	229770	25.0	23.5	
33 Acrylonitrile	53	3.071	3.071	0.000	99	1433971	250.0	250.2	
35 Hexane	57	3.193	3.199	-0.006	95	404552	25.0	27.8	
39 1,1-Dichloroethane	63	3.418	3.418	0.000	85	449953	25.0	24.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.478	3.478	0.000	97	1010299	50.0	60.5	
44 2,2-Dichloropropane	77	3.923	3.922	0.001	88	189744	25.0	22.1	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	71	252430	25.0	23.2	
43 2-Butanone (MEK)	43	4.008	4.008	0.000	98	912775	125.0	146.2	
48 Chlorobromomethane	128	4.196	4.196	0.000	93	142220	25.0	23.2	
49 Tetrahydrofuran	42	4.208	4.208	0.000	91	252171	50.0	53.0	
50 Chloroform	83	4.275	4.275	0.000	82	400417	25.0	23.2	
52 Cyclohexane	56	4.379	4.379	0.000	96	478883	25.0	24.7	
51 1,1,1-Trichloroethane	97	4.373	4.379	-0.006	74	331657	25.0	25.6	
55 Carbon tetrachloride	117	4.507	4.506	0.001	82	274479	25.0	30.9	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	87	316752	25.0	25.6	
57 Benzene	78	4.726	4.725	0.001	96	899284	25.0	24.2	
53 Isobutyl alcohol	43	4.780	4.780	0.000	61	320582	625.0	729.4	
58 1,2-Dichloroethane	62	4.799	4.798	0.001	73	359271	25.0	23.5	
59 n-Heptane	43	4.914	4.914	0.000	96	431902	25.0	26.9	
62 Trichloroethene	95	5.334	5.334	0.000	90	231296	25.0	24.2	
64 Methylcyclohexane	83	5.443	5.443	0.000	96	418997	25.0	25.4	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	89	234114	25.0	24.2	
67 Dibromomethane	93	5.711	5.711	0.000	90	146207	25.0	24.7	
66 1,4-Dioxane	88	5.723	5.723	0.000	62	71354	500.0	649.6	M
68 Dichlorobromomethane	83	5.869	5.869	0.000	92	277900	25.0	28.4	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	92	149612	25.0	24.0	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	85	330534	25.0	26.0	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	99	1804506	125.0	134.9	
74 Toluene	92	6.557	6.563	-0.006	93	568553	25.0	23.2	
77 trans-1,3-Dichloropropene	75	6.855	6.855	0.000	95	297163	25.0	27.2	
75 Ethyl methacrylate	69	6.903	6.909	-0.006	76	253144	25.0	26.1	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	88	161485	25.0	23.8	
81 Tetrachloroethene	166	7.080	7.080	0.000	87	249934	25.0	23.9	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	98	337728	25.0	24.2	
80 2-Hexanone	43	7.268	7.275	-0.006	99	1255480	125.0	151.4	
83 Chlorodibromomethane	129	7.427	7.427	0.000	88	207537	25.0	34.3	
84 Ethylene Dibromide	107	7.518	7.524	-0.006	96	209332	25.0	25.8	
87 Chlorobenzene	112	7.992	7.992	0.000	93	658624	25.0	23.2	
88 Ethylbenzene	91	8.090	8.090	0.000	98	1084060	25.0	23.6	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	41	223282	25.0	28.9	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	98	433418	25.0	23.6	
91 o-Xylene	106	8.637	8.637	0.000	97	434208	25.0	23.3	
92 Styrene	104	8.668	8.668	0.000	96	733440	25.0	24.4	
95 Bromoform	173	8.911	8.911	0.000	97	131289	25.0	33.9	
94 Isopropylbenzene	105	9.021	9.020	0.001	96	1156261	25.0	24.2	
101 Bromobenzene	156	9.367	9.367	0.000	93	286655	25.0	23.8	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	60	295183	25.0	26.3	
99 N-Propylbenzene	91	9.465	9.465	0.000	98	1324127	25.0	24.9	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	61	96081	25.0	24.7	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	83	103073	25.0	29.5	
103 2-Chlorotoluene	126	9.568	9.568	0.000	95	280811	25.0	24.4	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	94	991147	25.0	24.4	
105 4-Chlorotoluene	126	9.684	9.684	0.000	97	289643	25.0	25.0	
106 tert-Butylbenzene	134	9.976	9.976	0.000	91	228551	25.0	25.0	
107 1,2,4-Trimethylbenzene	105	10.037	10.036	0.001	62	1023686	25.0	24.4	
109 sec-Butylbenzene	105	10.195	10.195	0.000	93	1268712	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
111 1,3-Dichlorobenzene	146	10.329	10.328	0.001	98	562045	25.0	23.0	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	98	1162166	25.0	25.0	
113 1,4-Dichlorobenzene	146	10.420	10.420	0.000	96	572401	25.0	23.6	
115 n-Butylbenzene	91	10.736	10.736	0.000	94	979737	25.0	25.0	
116 1,2-Dichlorobenzene	146	10.773	10.773	0.000	97	562087	25.0	22.6	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	74	58458	25.0	39.3	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	93	437617	25.0	22.5	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	96	182250	25.0	23.2	
121 Naphthalene	128	12.409	12.409	0.000	97	1329877	25.0	24.4	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	95	431042	25.0	22.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00211	Amount Added:	12.50	Units: uL	
GAS CORP mix_00466	Amount Added:	12.50	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

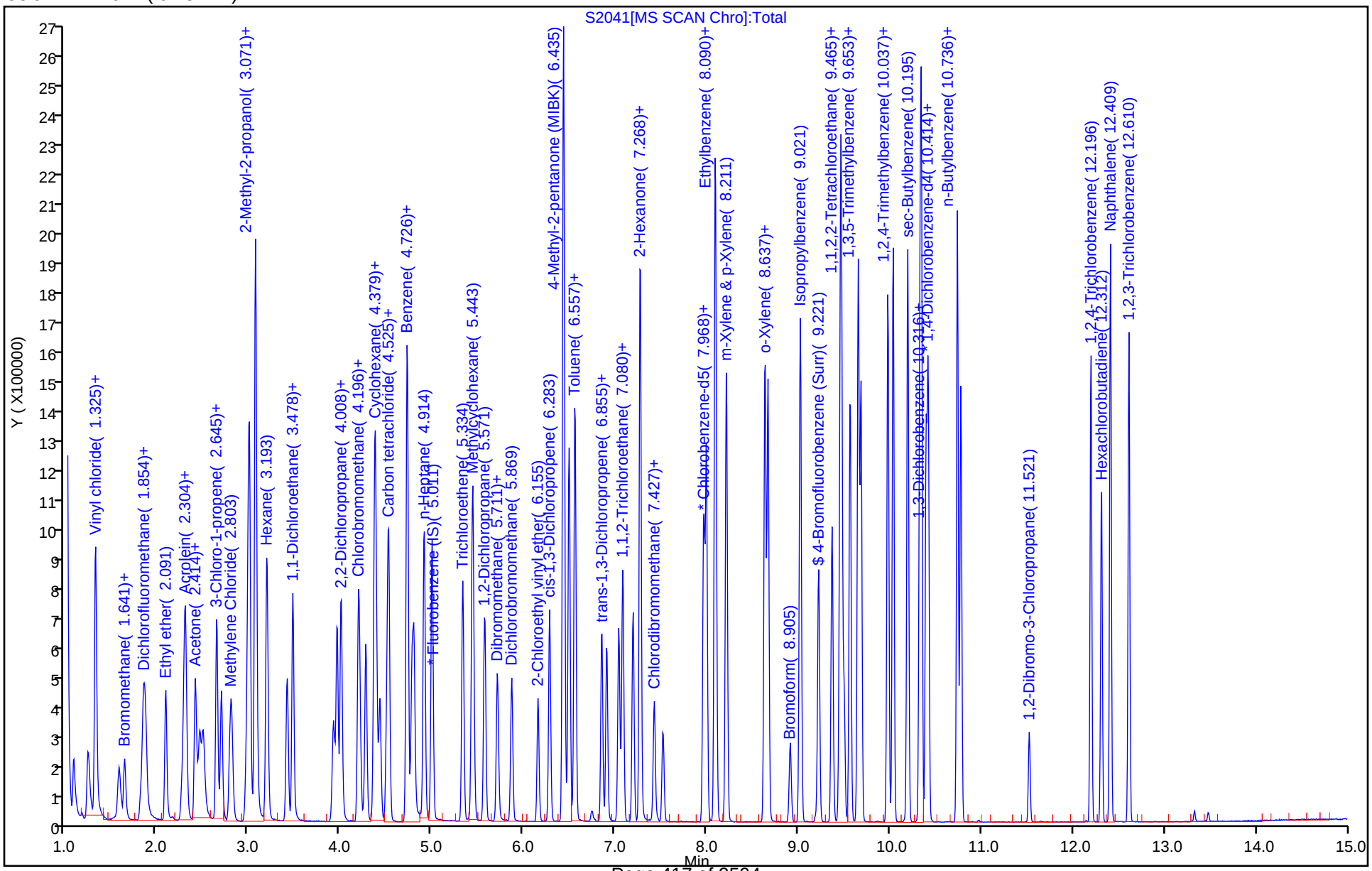
Report Date: 10-Aug-2021 09:59:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2041.D

Injection Date:	09-Aug-2021 11:17:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	LCS			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	S-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.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-592370/6

Matrix: Water Lab File ID: S2121.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/11/2021 00:35

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.: 592370 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	25.7		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.9		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.9		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.9		1.0	0.31
75-34-3	1,1-Dichloroethane	24.5		1.0	0.38
75-35-4	1,1-Dichloroethene	23.6		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.9		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	38.4		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.0		1.0	0.79
107-06-2	1,2-Dichloroethane	23.0		1.0	0.21
78-87-5	1,2-Dichloropropane	24.7		1.0	0.72
541-73-1	1,3-Dichlorobenzene	23.3		1.0	0.78
106-46-7	1,4-Dichlorobenzene	23.8		1.0	0.84
78-93-3	2-Butanone (MEK)	141		10	1.3
591-78-6	2-Hexanone	160		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	139		5.0	2.1
67-64-1	Acetone	126		10	3.0
71-43-2	Benzene	23.7		1.0	0.41
75-27-4	Bromodichloromethane	28.4		1.0	0.39
75-25-2	Bromoform	31.2		1.0	0.26
74-83-9	Bromomethane	24.7		1.0	0.69
75-15-0	Carbon disulfide	24.8		1.0	0.19
56-23-5	Carbon tetrachloride	29.6		1.0	0.27
108-90-7	Chlorobenzene	23.5		1.0	0.75
124-48-1	Dibromochloromethane	34.0		1.0	0.32
75-00-3	Chloroethane	25.8		1.0	0.32
67-66-3	Chloroform	23.1		1.0	0.34
74-87-3	Chloromethane	24.2		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	22.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.7		1.0	0.36
110-82-7	Cyclohexane	25.3		1.0	0.18
75-71-8	Dichlorodifluoromethane	29.0		1.0	0.68
100-41-4	Ethylbenzene	23.7		1.0	0.74
106-93-4	1,2-Dibromoethane	26.3		1.0	0.73
98-82-8	Isopropylbenzene	23.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 480-592370/6

Matrix: Water Lab File ID: S2121.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/11/2021 00:35

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.: 592370 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	50.5		2.5	1.3
1634-04-4	Methyl tert-butyl ether	22.9		1.0	0.16
108-87-2	Methylcyclohexane	24.6		1.0	0.16
75-09-2	Methylene Chloride	24.7		1.0	0.44
100-42-5	Styrene	24.3		1.0	0.73
127-18-4	Tetrachloroethene	23.1		1.0	0.36
108-88-3	Toluene	23.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	23.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.3		1.0	0.37
79-01-6	Trichloroethene	23.9		1.0	0.46
75-69-4	Trichlorofluoromethane	27.6		1.0	0.88
75-01-4	Vinyl chloride	25.7		1.0	0.90
1330-20-7	Xylenes, Total	46.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2121.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Aug-2021 00:35:30 ALS Bottle#: 35 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0100343-006
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 11-Aug-2021 17:01:56 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1614

First Level Reviewer: lapointec Date: 11-Aug-2021 08:25:25

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	4.999	4.999	0.000	98	126016	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.962	0.000	88	250457	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	51	274894	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.433	4.433	0.000	57	182297	25.0	25.0	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.731	4.732	-0.001	58	111078	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	58	654748	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	209521	25.0	24.1	
10 Dichlorodifluoromethane	85	1.087	1.088	-0.001	87	259078	25.0	29.0	
12 Chloromethane	50	1.240	1.240	0.000	89	325485	25.0	24.2	
13 Vinyl chloride	62	1.319	1.319	0.000	46	294340	25.0	25.7	
151 Butadiene	54	1.325	1.325	0.000	68	383647	25.0	34.7	
14 Bromomethane	94	1.580	1.580	0.000	91	162805	25.0	24.7	
15 Chloroethane	64	1.641	1.641	0.000	94	174297	25.0	25.8	
16 Dichlorofluoromethane	67	1.848	1.848	0.000	82	370059	25.0	24.6	
17 Trichlorofluoromethane	101	1.860	1.860	0.000	61	323155	25.0	27.6	
18 Ethyl ether	59	2.091	2.091	0.000	96	204501	25.0	24.0	
20 Acrolein	56	2.268	2.268	0.000	99	51907	125.0	105.9	M
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.298	2.292	0.006	63	169855	25.0	23.9	
22 1,1-Dichloroethene	96	2.304	2.304	0.000	84	168415	25.0	23.6	
23 Acetone	43	2.414	2.420	-0.006	98	527333	125.0	126.3	
25 Iodomethane	142	2.456	2.456	0.000	98	306879	25.0	22.1	
26 Carbon disulfide	76	2.499	2.499	0.000	99	607103	25.0	24.8	
28 3-Chloro-1-propene	41	2.651	2.651	0.000	86	373900	25.0	23.5	
27 Methyl acetate	43	2.700	2.700	0.000	96	458726	50.0	50.5	
30 Methylene Chloride	84	2.803	2.803	0.000	92	218506	25.0	24.7	
31 2-Methyl-2-propanol	59	2.973	2.973	0.000	79	320186	250.0	318.3	
32 Methyl tert-butyl ether	73	2.998	2.998	0.000	93	675920	25.0	22.9	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	89	198387	25.0	23.2	
33 Acrylonitrile	53	3.077	3.077	0.000	99	1215554	250.0	242.7	
35 Hexane	57	3.198	3.199	0.000	91	317507	25.0	25.0	
39 1,1-Dichloroethane	63	3.417	3.418	-0.001	85	395098	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
37 Vinyl acetate	43	3.478	3.478	0.000	96	919649	50.0	63.1	
44 2,2-Dichloropropane	77	3.922	3.922	0.000	90	164611	25.0	21.9	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	67	212926	25.0	22.4	
43 2-Butanone (MEK)	43	4.008	4.008	0.000	97	767068	125.0	140.6	
48 Chlorobromomethane	128	4.196	4.196	0.000	92	120133	25.0	22.5	
49 Tetrahydrofuran	42	4.208	4.208	0.000	95	208498	50.0	50.2	
50 Chloroform	83	4.275	4.275	0.000	81	347448	25.0	23.1	
52 Cyclohexane	56	4.379	4.379	0.000	94	427896	25.0	25.3	
51 1,1,1-Trichloroethane	97	4.379	4.379	0.000	75	291277	25.0	25.7	
55 Carbon tetrachloride	117	4.506	4.513	-0.007	84	229717	25.0	29.6	
54 1,1-Dichloropropene	75	4.525	4.525	0.000	88	269272	25.0	24.9	
57 Benzene	78	4.725	4.725	0.000	96	769736	25.0	23.7	
53 Isobutyl alcohol	43	4.780	4.780	0.000	60	334660	625.0	868.4	
58 1,2-Dichloroethane	62	4.804	4.805	-0.001	74	306784	25.0	23.0	
59 n-Heptane	43	4.914	4.914	0.000	95	330196	25.0	23.5	
62 Trichloroethene	95	5.334	5.334	0.000	90	199147	25.0	23.9	
64 Methylcyclohexane	83	5.443	5.443	0.000	96	353622	25.0	24.6	
65 1,2-Dichloropropane	63	5.577	5.577	0.000	89	209043	25.0	24.7	
67 Dibromomethane	93	5.711	5.711	0.000	91	123635	25.0	23.9	
66 1,4-Dioxane	88	5.723	5.723	0.000	56	49369	500.0	524.3	M
68 Dichlorobromomethane	83	5.869	5.869	0.000	98	242820	25.0	28.4	
69 2-Chloroethyl vinyl ether	63	6.155	6.155	0.000	90	133743	25.0	24.5	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	84	274484	25.0	24.7	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.435	0.000	99	1589569	125.0	138.6	
74 Toluene	92	6.563	6.563	0.000	95	501248	25.0	23.9	
77 trans-1,3-Dichloropropene	75	6.855	6.855	0.000	94	246553	25.0	26.3	
75 Ethyl methacrylate	69	6.909	6.903	0.006	89	263472	25.0	31.6	
79 1,1,2-Trichloroethane	83	7.037	7.037	0.000	88	145168	25.0	24.9	
81 Tetrachloroethene	166	7.080	7.080	0.000	79	207508	25.0	23.1	
82 1,3-Dichloropropane	76	7.195	7.195	0.000	97	293740	25.0	24.5	
80 2-Hexanone	43	7.274	7.274	0.000	99	1134847	125.0	159.6	
83 Chlorodibromomethane	129	7.426	7.427	-0.001	88	176436	25.0	34.0	
84 Ethylene Dibromide	107	7.518	7.524	-0.006	97	183055	25.0	26.3	
87 Chlorobenzene	112	7.992	7.992	0.000	94	571649	25.0	23.5	
88 Ethylbenzene	91	8.090	8.090	0.000	98	934084	25.0	23.7	
89 1,1,1,2-Tetrachloroethane	131	8.096	8.096	0.000	40	196916	25.0	29.8	
90 m-Xylene & p-Xylene	106	8.211	8.211	0.000	98	368887	25.0	23.5	
91 o-Xylene	106	8.637	8.631	0.006	97	367711	25.0	23.0	
92 Styrene	104	8.668	8.668	0.000	94	626492	25.0	24.3	
95 Bromoform	173	8.911	8.911	0.000	94	103374	25.0	31.2	
94 Isopropylbenzene	105	9.020	9.020	0.000	96	995723	25.0	23.9	
101 Bromobenzene	156	9.367	9.367	0.000	94	248218	25.0	23.6	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	59	253302	25.0	25.9	
99 N-Propylbenzene	91	9.464	9.465	-0.001	98	1126152	25.0	24.3	
100 1,2,3-Trichloropropane	110	9.477	9.477	0.000	62	82966	25.0	24.4	
98 trans-1,4-Dichloro-2-butene	53	9.501	9.501	0.000	1	7779	25.0	2.55	Ma
103 2-Chlorotoluene	126	9.562	9.562	0.000	96	241973	25.0	24.1	
102 1,3,5-Trimethylbenzene	105	9.653	9.653	0.000	96	862869	25.0	24.4	
105 4-Chlorotoluene	126	9.684	9.684	0.000	97	249607	25.0	24.7	
106 tert-Butylbenzene	134	9.976	9.976	0.000	91	203083	25.0	25.5	
107 1,2,4-Trimethylbenzene	105	10.036	10.036	0.000	62	886909	25.0	24.2	
109 sec-Butylbenzene	105	10.195	10.195	0.000	94	1096292	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
111 1,3-Dichlorobenzene	146	10.322	10.322	0.000	98	496064	25.0	23.3	
110 4-Isopropyltoluene	119	10.341	10.341	0.000	97	1009379	25.0	24.8	
113 1,4-Dichlorobenzene	146	10.420	10.414	0.006	85	503654	25.0	23.8	
115 n-Butylbenzene	91	10.736	10.736	0.000	94	846340	25.0	24.8	
116 1,2-Dichlorobenzene	146	10.772	10.773	-0.001	96	496901	25.0	23.0	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	78	49731	25.0	38.4	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	94	388013	25.0	22.9	
120 Hexachlorobutadiene	225	12.312	12.312	0.000	94	155090	25.0	22.7	
121 Naphthalene	128	12.409	12.409	0.000	96	1170844	25.0	24.7	
122 1,2,3-Trichlorobenzene	180	12.610	12.610	0.000	94	378277	25.0	22.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00210	Amount Added:	12.50	Units: uL	
GAS CORP mix_00467	Amount Added:	12.50	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Aug-2021 17:01:56 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210810-100343.b\S2121.D

Injection Date: 11-Aug-2021 00:35:30 Instrument ID: HP5973S Operator ID: LH/AK/AG

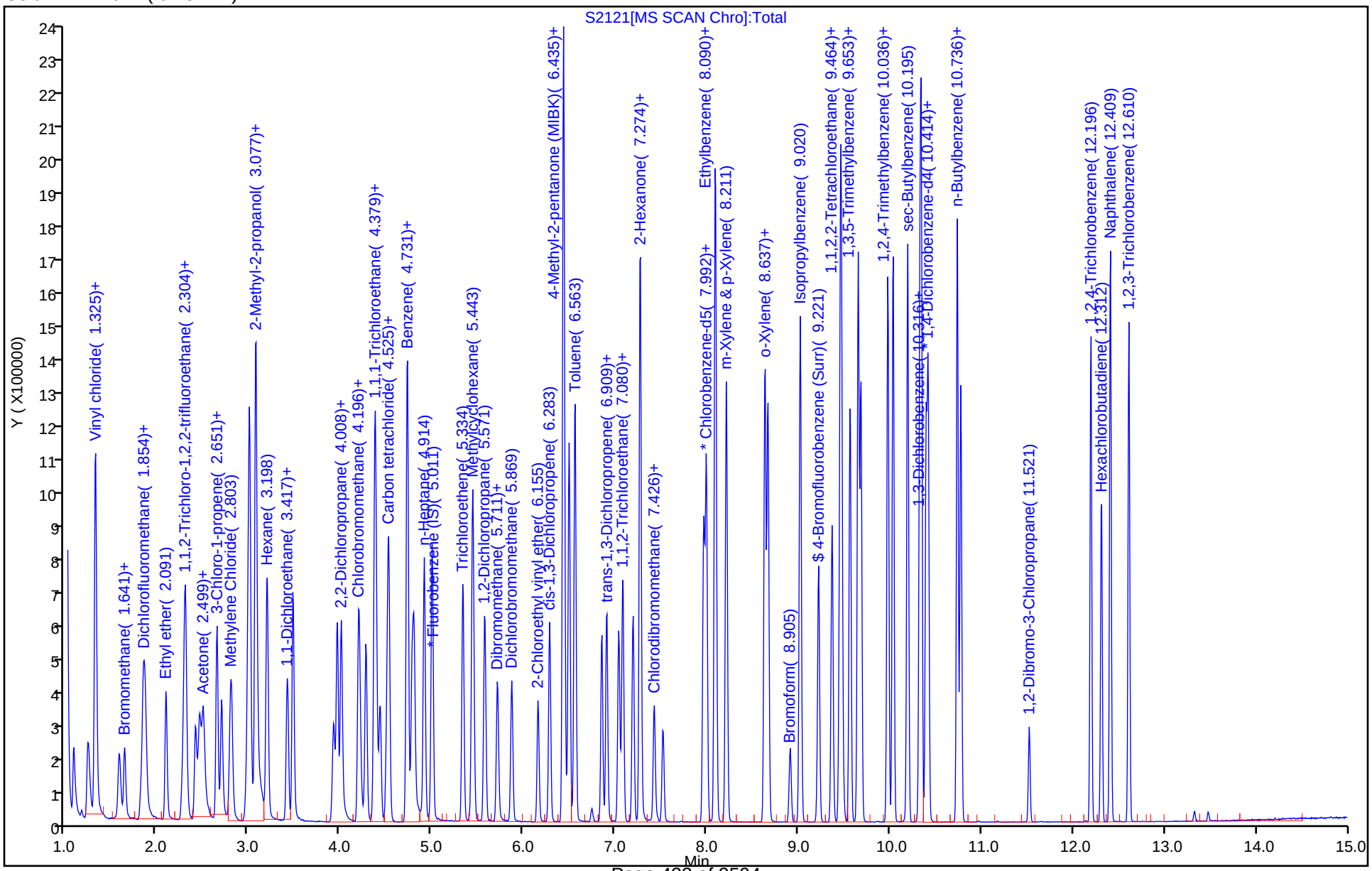
Lims ID: LCS Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 35

Method: S-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.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-03 MS Lab Sample ID: 480-188016-1 MS

Matrix: Water Lab File ID: S2065.D

Analysis Method: 8260C Date Collected: 08/02/2021 11:51

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 20:58

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.0		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.2		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.4		1.0	0.31
75-34-3	1,1-Dichloroethane	26.8		1.0	0.38
75-35-4	1,1-Dichloroethene	24.9		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	23.0		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	36.3		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.9		1.0	0.79
107-06-2	1,2-Dichloroethane	23.8		1.0	0.21
78-87-5	1,2-Dichloropropane	24.1		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.3		1.0	0.84
78-93-3	2-Butanone (MEK)	125		10	1.3
591-78-6	2-Hexanone	132		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	133		5.0	2.1
67-64-1	Acetone	116		10	3.0
71-43-2	Benzene	25.0		1.0	0.41
75-27-4	Bromodichloromethane	26.6		1.0	0.39
75-25-2	Bromoform	28.3		1.0	0.26
74-83-9	Bromomethane	20.6		1.0	0.69
75-15-0	Carbon disulfide	23.0		1.0	0.19
56-23-5	Carbon tetrachloride	31.9		1.0	0.27
108-90-7	Chlorobenzene	23.7		1.0	0.75
124-48-1	Dibromochloromethane	31.2		1.0	0.32
75-00-3	Chloroethane	21.8		1.0	0.32
67-66-3	Chloroform	24.9		1.0	0.34
74-87-3	Chloromethane	20.4		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.5		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	22.5		1.0	0.36
110-82-7	Cyclohexane	26.2		1.0	0.18
75-71-8	Dichlorodifluoromethane	20.3		1.0	0.68
100-41-4	Ethylbenzene	25.2		1.0	0.74
106-93-4	1,2-Dibromoethane	25.0		1.0	0.73
98-82-8	Isopropylbenzene	26.8		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-03 MS Lab Sample ID: 480-188016-1 MS

Matrix: Water Lab File ID: S2065.D

Analysis Method: 8260C Date Collected: 08/02/2021 11:51

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 20:58

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	49.3		2.5	1.3
1634-04-4	Methyl tert-butyl ether	23.0		1.0	0.16
108-87-2	Methylcyclohexane	26.4		1.0	0.16
75-09-2	Methylene Chloride	24.7		1.0	0.44
100-42-5	Styrene	24.6		1.0	0.73
127-18-4	Tetrachloroethene	25.2		1.0	0.36
108-88-3	Toluene	24.7		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	26.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	24.7		1.0	0.37
79-01-6	Trichloroethene	24.6		1.0	0.46
75-69-4	Trichlorofluoromethane	22.0		1.0	0.88
75-01-4	Vinyl chloride	20.8		1.0	0.90
1330-20-7	Xylenes, Total	49.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2065.D
Lims ID: 480-188016-D-1 MS
Client ID: MW-99-03
Sample Type: MS
Inject. Date: 09-Aug-2021 20:58:30 ALS Bottle#: 28 Worklist Smp#: 83
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-1 MS
Misc. Info.: 480-0100304-083
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:28:35 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1686

First Level Reviewer: pinsuwanc Date: 11-Aug-2021 08:52:41

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	4.999	4.999	0.000	97	135136	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	85	252926	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	55	273044	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.427	4.433	-0.006	55	204077	25.0	26.1	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	52	122428	25.0	26.2	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	75	685582	25.0	25.7	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	209223	25.0	23.8	
10 Dichlorodifluoromethane	85	1.088	1.088	0.000	87	194703	25.0	20.3	
12 Chloromethane	50	1.240	1.246	-0.006	99	294566	25.0	20.4	
13 Vinyl chloride	62	1.319	1.325	-0.006	44	254552	25.0	20.8	
14 Bromomethane	94	1.580	1.580	0.000	89	145557	25.0	20.6	
15 Chloroethane	64	1.641	1.641	0.000	94	157964	25.0	21.8	
17 Trichlorofluoromethane	101	1.854	1.860	-0.006	64	276704	25.0	22.0	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.298	2.292	0.006	60	185849	25.0	24.4	
22 1,1-Dichloroethene	96	2.304	2.310	-0.006	86	190973	25.0	24.9	
23 Acetone	43	2.414	2.414	0.000	98	518089	125.0	115.8	
26 Carbon disulfide	76	2.493	2.499	-0.006	99	605460	25.0	23.0	
27 Methyl acetate	43	2.700	2.700	0.000	97	480406	50.0	49.3	
30 Methylene Chloride	84	2.791	2.809	-0.018	92	235063	25.0	24.7	
32 Methyl tert-butyl ether	73	2.992	2.998	-0.006	93	727312	25.0	23.0	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	90	238053	25.0	26.0	
39 1,1-Dichloroethane	63	3.418	3.418	0.000	85	461958	25.0	26.8	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	71	259671	25.0	25.5	
43 2-Butanone (MEK)	43	4.002	4.008	-0.006	96	732136	125.0	125.1	
50 Chloroform	83	4.275	4.275	0.000	82	402595	25.0	24.9	
52 Cyclohexane	56	4.379	4.379	0.000	94	476053	25.0	26.2	
51 1,1,1-Trichloroethane	97	4.373	4.379	-0.006	79	330388	25.0	27.2	
55 Carbon tetrachloride	117	4.507	4.506	0.000	81	265264	25.0	31.9	
57 Benzene	78	4.726	4.725	0.001	96	868533	25.0	25.0	
58 1,2-Dichloroethane	62	4.799	4.798	0.001	73	340617	25.0	23.8	
62 Trichloroethene	95	5.334	5.334	0.000	92	219934	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
64 Methylcyclohexane	83	5.443	5.443	0.000	97	406742	25.0	26.4	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	88	219217	25.0	24.1	
68 Dichlorobromomethane	83	5.869	5.869	0.000	91	244185	25.0	26.6	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	85	268203	25.0	22.5	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.430	0.000	99	1546079	125.0	133.5	
74 Toluene	92	6.557	6.558	-0.006	93	523957	25.0	24.7	
77 trans-1,3-Dichloropropene	75	6.849	6.849	-0.006	93	234108	25.0	24.7	
79 1,1,2-Trichloroethane	83	7.037	7.032	0.000	87	141990	25.0	24.2	
81 Tetrachloroethene	166	7.080	7.074	0.000	79	228588	25.0	25.2	
80 2-Hexanone	43	7.268	7.269	-0.006	99	947740	125.0	132.0	
83 Chlorodibromomethane	129	7.427	7.421	0.000	86	163389	25.0	31.2	
84 Ethylene Dibromide	107	7.518	7.518	-0.006	97	175519	25.0	25.0	
87 Chlorobenzene	112	7.992	7.986	0.000	93	581562	25.0	23.7	
88 Ethylbenzene	91	8.090	8.083	0.000	98	1002486	25.0	25.2	
90 m-Xylene & p-Xylene	106	8.211	8.205	0.000	98	396586		25.0	
91 o-Xylene	106	8.631	8.631	-0.006	97	399724		24.7	
92 Styrene	104	8.668	8.661	0.000	94	639140	25.0	24.6	
95 Bromoform	173	8.905	8.904	-0.006	93	94460	25.0	28.3	
94 Isopropylbenzene	105	9.021	9.020	0.001	96	1109025	25.0	26.8	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	54	252099	25.0	26.0	
111 1,3-Dichlorobenzene	146	10.322	10.328	-0.006	98	507606	25.0	24.0	
113 1,4-Dichlorobenzene	146	10.414	10.420	-0.006	94	512093	25.0	24.3	
116 1,2-Dichlorobenzene	146	10.773	10.772	0.000	96	514754	25.0	23.9	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	74	46701	25.0	36.3	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	94	386443	25.0	23.0	
S 124 Xylenes, Total	1				0			49.7	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00211	Amount Added:	12.50	Units: uL	
GAS CORP mix_00466	Amount Added:	12.50	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

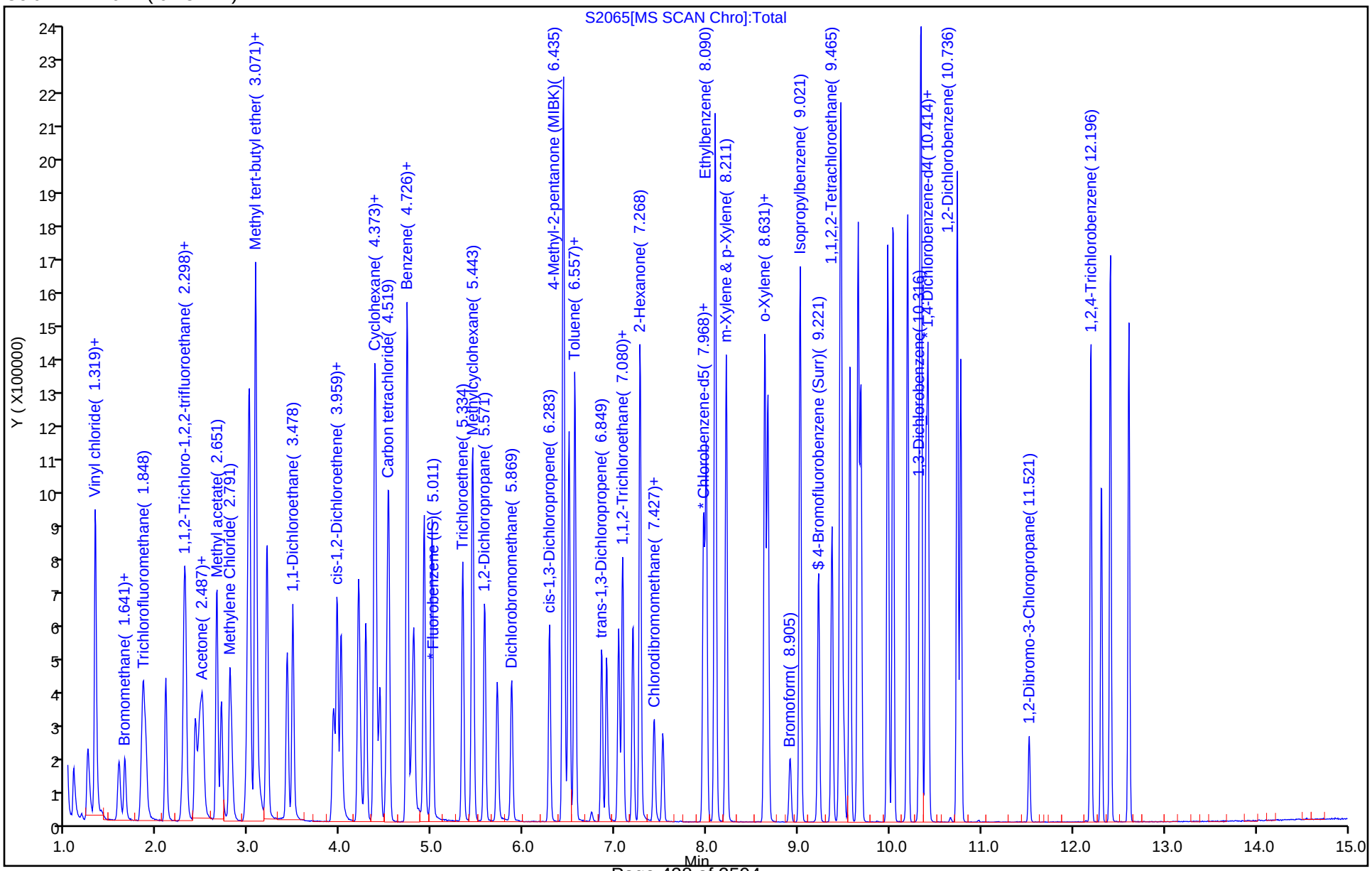
Report Date: 11-Aug-2021 08:52:42 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2065.D

Injection Date:	09-Aug-2021 20:58:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-1 MS			Worklist Smp#:	83
Client ID:	MW-99-03				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	S-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.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-03 MSD Lab Sample ID: 480-188016-1 MSD

Matrix: Water Lab File ID: S2066.D

Analysis Method: 8260C Date Collected: 08/02/2021 11:51

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 21:21

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	27.2		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	24.3		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.5		1.0	0.31
75-34-3	1,1-Dichloroethane	25.7		1.0	0.38
75-35-4	1,1-Dichloroethene	24.5		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	22.9		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	35.3		1.0	0.39
95-50-1	1,2-Dichlorobenzene	23.9		1.0	0.79
107-06-2	1,2-Dichloroethane	23.6		1.0	0.21
78-87-5	1,2-Dichloropropane	24.8		1.0	0.72
541-73-1	1,3-Dichlorobenzene	24.3		1.0	0.78
106-46-7	1,4-Dichlorobenzene	24.9		1.0	0.84
78-93-3	2-Butanone (MEK)	132		10	1.3
591-78-6	2-Hexanone	141		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	131		5.0	2.1
67-64-1	Acetone	113		10	3.0
71-43-2	Benzene	25.1		1.0	0.41
75-27-4	Bromodichloromethane	27.5		1.0	0.39
75-25-2	Bromoform	29.9		1.0	0.26
74-83-9	Bromomethane	24.5		1.0	0.69
75-15-0	Carbon disulfide	22.8		1.0	0.19
56-23-5	Carbon tetrachloride	32.3		1.0	0.27
108-90-7	Chlorobenzene	24.3		1.0	0.75
124-48-1	Dibromochloromethane	33.0		1.0	0.32
75-00-3	Chloroethane	25.9		1.0	0.32
67-66-3	Chloroform	24.2		1.0	0.34
74-87-3	Chloromethane	23.5		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	23.9		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	24.8		1.0	0.36
110-82-7	Cyclohexane	26.1		1.0	0.18
75-71-8	Dichlorodifluoromethane	24.6		1.0	0.68
100-41-4	Ethylbenzene	25.2		1.0	0.74
106-93-4	1,2-Dibromoethane	26.5		1.0	0.73
98-82-8	Isopropylbenzene	26.7		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-03 MSD Lab Sample ID: 480-188016-1 MSD

Matrix: Water Lab File ID: S2066.D

Analysis Method: 8260C Date Collected: 08/02/2021 11:51

Sample wt/vol: 5(mL) Date Analyzed: 08/09/2021 21:21

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.: 592153 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	46.9		2.5	1.3
1634-04-4	Methyl tert-butyl ether	22.0		1.0	0.16
108-87-2	Methylcyclohexane	25.5		1.0	0.16
75-09-2	Methylene Chloride	23.3		1.0	0.44
100-42-5	Styrene	25.3		1.0	0.73
127-18-4	Tetrachloroethene	25.0		1.0	0.36
108-88-3	Toluene	25.0		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.6		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.4		1.0	0.37
79-01-6	Trichloroethene	25.3		1.0	0.46
75-69-4	Trichlorofluoromethane	27.2		1.0	0.88
75-01-4	Vinyl chloride	24.6		1.0	0.90
1330-20-7	Xylenes, Total	50.3		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	94		73-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2066.D
Lims ID: 480-188016-D-1 MSD
Client ID: MW-99-03
Sample Type: MSD
Inject. Date: 09-Aug-2021 21:21:30 ALS Bottle#: 29 Worklist Smp#: 84
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-188016-D-1 MSD
Misc. Info.: 480-0100304-084
Operator ID: LH/AK/AG Instrument ID: HP5973S

Method: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 10-Aug-2021 11:28:35 Calib Date: 29-Jul-2021 00:48:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5973S\20210728-100106.b\S1621.D

Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1686

First Level Reviewer: kiwana Date: 10-Aug-2021 11:19:45

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	4.999	4.999	0.000	98	145692	25.0	25.0	
* 2 Chlorobenzene-d5	82	7.962	7.968	-0.006	87	287133	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.395	10.395	0.000	54	307247	25.0	25.0	
$ 154 Dibromofluoromethane (Surr)	113	4.434	4.433	0.001	56	204013	25.0	24.2	
$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.732	4.732	0.000	52	123720	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	6.496	6.496	0.000	57	746510	25.0	24.6	
$ 6 4-Bromofluorobenzene (Surr)	174	9.221	9.221	0.000	90	233351	25.0	23.4	
10 Dichlorodifluoromethane	85	1.088	1.088	0.000	87	254040	25.0	24.6	
12 Chloromethane	50	1.240	1.246	-0.006	89	365594	25.0	23.5	
13 Vinyl chloride	62	1.325	1.325	0.000	57	325192	25.0	24.6	
14 Bromomethane	94	1.580	1.580	0.000	91	186316	25.0	24.5	
15 Chloroethane	64	1.647	1.641	0.006	95	202245	25.0	25.9	
17 Trichlorofluoromethane	101	1.860	1.860	0.000	71	368446	25.0	27.2	
21 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.298	2.292	0.006	62	193071	25.0	23.5	
22 1,1-Dichloroethene	96	2.304	2.310	-0.006	86	202225	25.0	24.5	
23 Acetone	43	2.414	2.414	0.000	98	545176	125.0	113.0	
26 Carbon disulfide	76	2.493	2.499	-0.006	99	647369	25.0	22.8	
27 Methyl acetate	43	2.700	2.700	0.000	96	492682	50.0	46.9	
30 Methylene Chloride	84	2.803	2.809	-0.006	93	238586	25.0	23.3	
32 Methyl tert-butyl ether	73	2.998	2.998	0.000	93	750778	25.0	22.0	
34 trans-1,2-Dichloroethene	96	3.010	3.010	0.000	89	252782	25.0	25.6	
39 1,1-Dichloroethane	63	3.418	3.418	0.000	85	478407	25.0	25.7	
45 cis-1,2-Dichloroethene	96	3.965	3.965	0.000	68	262772	25.0	23.9	
43 2-Butanone (MEK)	43	4.008	4.008	0.000	97	833360	125.0	132.1	
50 Chloroform	83	4.275	4.275	0.000	82	420714	25.0	24.2	
52 Cyclohexane	56	4.379	4.379	0.000	95	511350	25.0	26.1	
51 1,1,1-Trichloroethane	97	4.379	4.379	0.000	74	356545	25.0	27.2	
55 Carbon tetrachloride	117	4.513	4.506	0.007	83	289365	25.0	32.3	
57 Benzene	78	4.726	4.725	0.001	96	941874	25.0	25.1	
58 1,2-Dichloroethane	62	4.799	4.798	0.001	73	363821	25.0	23.6	
62 Trichloroethene	95	5.334	5.334	0.000	89	244156	25.0	25.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83	5.443	5.443	0.000	97	424216	25.0	25.5	
65 1,2-Dichloropropane	63	5.571	5.571	0.000	88	243170	25.0	24.8	
68 Dichlorobromomethane	83	5.869	5.869	0.000	91	271676	25.0	27.5	
72 cis-1,3-Dichloropropene	75	6.283	6.283	0.000	86	319191	25.0	24.8	
73 4-Methyl-2-pentanone (MIBK)	43	6.435	6.430	0.000	99	1717335	125.0	130.6	
74 Toluene	92	6.563	6.558	0.000	87	602319	25.0	25.0	
77 trans-1,3-Dichloropropene	75	6.855	6.849	0.000	95	284432	25.0	26.4	
79 1,1,2-Trichloroethane	83	7.037	7.032	0.000	89	162050	25.0	24.3	
81 Tetrachloroethene	166	7.080	7.074	0.000	87	257939	25.0	25.0	
80 2-Hexanone	43	7.268	7.269	-0.006	99	1145467	125.0	140.5	
83 Chlorodibromomethane	129	7.427	7.421	0.000	88	196377	25.0	33.0	
84 Ethylene Dibromide	107	7.524	7.518	0.000	95	211876	25.0	26.5	
87 Chlorobenzene	112	7.992	7.986	0.000	95	677392	25.0	24.3	
88 Ethylbenzene	91	8.090	8.083	0.000	98	1138478	25.0	25.2	
90 m-Xylene & p-Xylene	106	8.211	8.205	0.000	99	459722		25.5	
91 o-Xylene	106	8.631	8.631	-0.006	98	454082		24.8	
92 Styrene	104	8.668	8.661	0.000	96	748194	25.0	25.3	
95 Bromoform	173	8.911	8.904	0.000	97	113589	25.0	29.9	
94 Isopropylbenzene	105	9.021	9.020	0.001	96	1244764	25.0	26.7	
97 1,1,2,2-Tetrachloroethane	83	9.452	9.452	0.000	56	287601	25.0	26.3	
111 1,3-Dichlorobenzene	146	10.322	10.328	-0.006	98	577902	25.0	24.3	
113 1,4-Dichlorobenzene	146	10.420	10.420	0.000	96	588965	25.0	24.9	
116 1,2-Dichlorobenzene	146	10.773	10.772	0.000	96	578883	25.0	23.9	
117 1,2-Dibromo-3-Chloropropane	75	11.521	11.521	0.000	79	51173	25.0	35.3	
119 1,2,4-Trichlorobenzene	180	12.196	12.196	0.000	94	434343	25.0	22.9	
S 124 Xylenes, Total	1				0			50.3	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00211	Amount Added:	12.50	Units: uL	
GAS CORP mix_00466	Amount Added:	12.50	Units: uL	
S_8260_IS_00350	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00394	Amount Added:	1.00	Units: uL	Run Reagent

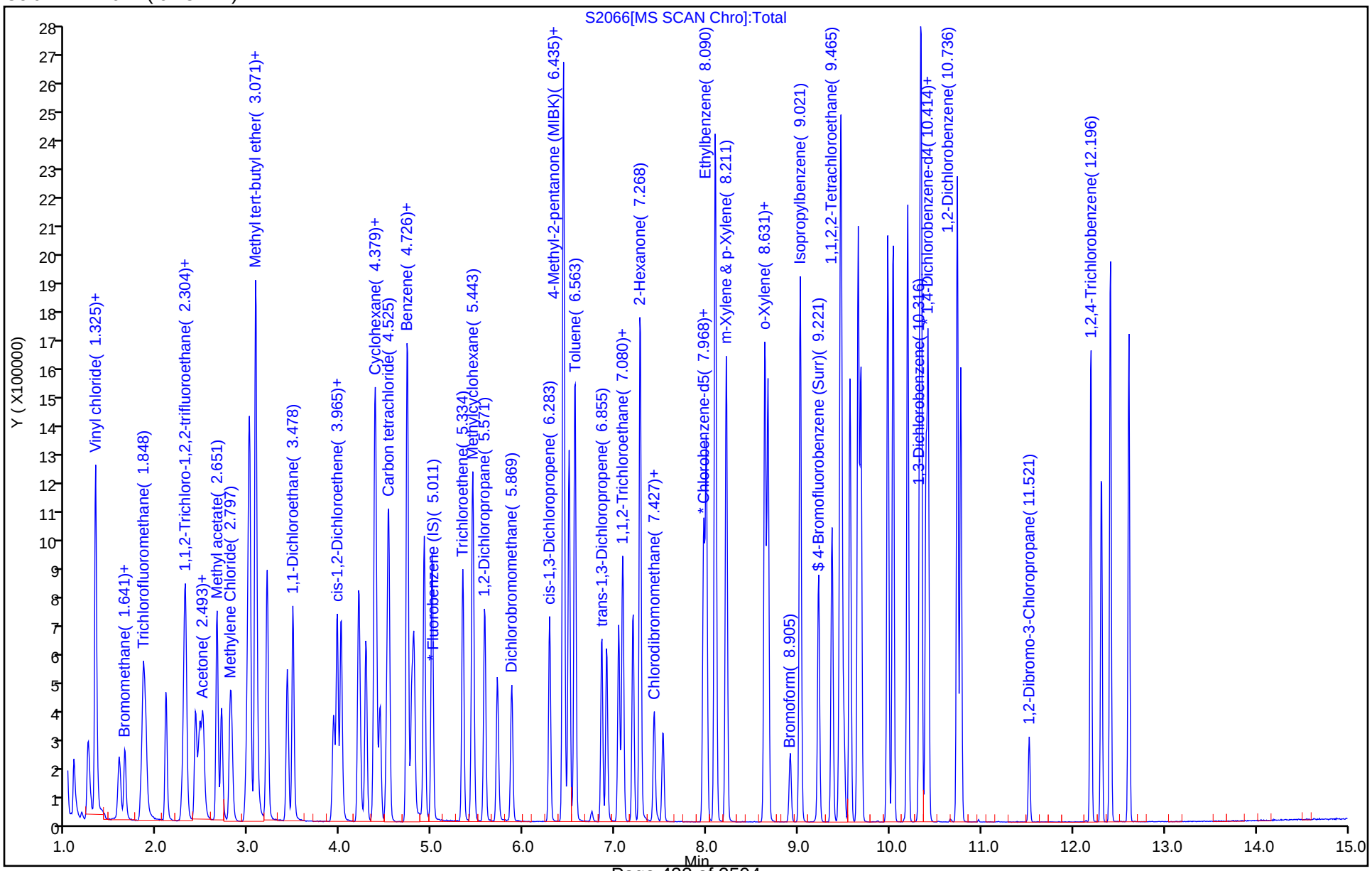
Report Date: 11-Aug-2021 08:52:53 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973S\20210809-100304.b\S2066.D

Injection Date:	09-Aug-2021 21:21:30	Instrument ID:	HP5973S	Operator ID:	LH/AK/AG
Lims ID:	480-188016-D-1 MSD			Worklist Smp#:	84
Client ID:	MW-99-03				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	29
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: HP5973S Start Date: 07/28/2021 16:36

Analysis Batch Number: 590807 End Date: 07/29/2021 02:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-590807/4		07/28/2021 16:36	1	S1600.D	ZB-624 (20) 0.18(mm)
IC 480-590807/6		07/28/2021 17:50	1	S1603.D	ZB-624 (20) 0.18(mm)
IC 480-590807/7		07/28/2021 18:13	1	S1604.D	ZB-624 (20) 0.18(mm)
IC 480-590807/8		07/28/2021 18:37	1	S1605.D	ZB-624 (20) 0.18(mm)
IC 480-590807/9		07/28/2021 19:00	1	S1606.D	ZB-624 (20) 0.18(mm)
IC 480-590807/10		07/28/2021 19:23	1	S1607.D	ZB-624 (20) 0.18(mm)
ICIS 480-590807/11		07/28/2021 19:46	1	S1608.D	ZB-624 (20) 0.18(mm)
IC 480-590807/12		07/28/2021 20:09	1	S1609.D	ZB-624 (20) 0.18(mm)
IC 480-590807/13		07/28/2021 20:32	1	S1610.D	ZB-624 (20) 0.18(mm)
MDLV 480-590807/15		07/28/2021 21:19	1		ZB-624 (20) 0.18(mm)
IC 480-590807/18		07/28/2021 22:28	1		ZB-624 (20) 0.18(mm)
IC 480-590807/19		07/28/2021 22:52	1		ZB-624 (20) 0.18(mm)
IC 480-590807/20		07/28/2021 23:15	1		ZB-624 (20) 0.18(mm)
IC 480-590807/21		07/28/2021 23:38	1		ZB-624 (20) 0.18(mm)
IC 480-590807/22		07/29/2021 00:01	1		ZB-624 (20) 0.18(mm)
IC 480-590807/23		07/29/2021 00:25	1		ZB-624 (20) 0.18(mm)
IC 480-590807/24		07/29/2021 00:48	1		ZB-624 (20) 0.18(mm)
MDLV 480-590807/26		07/29/2021 01:34	1		ZB-624 (20) 0.18(mm)
ICV 480-590807/27		07/29/2021 01:57	1	S1624.D	ZB-624 (20) 0.18(mm)
ICV 480-590807/28		07/29/2021 02:20	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: HP5973S Start Date: 08/09/2021 09:33

Analysis Batch Number: 592153 End Date: 08/10/2021 04:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-592153/2		08/09/2021 09:33	1	S2038.D	ZB-624 (20) 0.18(mm)
CCVIS 480-592153/3		08/09/2021 09:59	1	S2039.D	ZB-624 (20) 0.18(mm)
CCV 480-592153/4		08/09/2021 10:33	1		ZB-624 (20) 0.18(mm)
LCS 480-592153/5		08/09/2021 11:17	1	S2041.D	ZB-624 (20) 0.18(mm)
RL 480-592153/6		08/09/2021 11:39	1		ZB-624 (20) 0.18(mm)
MB 480-592153/7		08/09/2021 12:03	1	S2043.D	ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 12:49	200		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 13:14	200		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 13:37	2		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 14:00	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 14:23	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 14:46	20		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 15:10	40		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 15:33	5		ZB-624 (20) 0.18(mm)
480-188016-1	MW-99-03	08/09/2021 15:56	1	S2052.D	ZB-624 (20) 0.18(mm)
480-188016-2	MW-86-24A	08/09/2021 16:20	1	S2053.D	ZB-624 (20) 0.18(mm)
480-188016-3	MW-99-01	08/09/2021 16:43	1	S2054.D	ZB-624 (20) 0.18(mm)
480-188016-4	MW-86-28	08/09/2021 17:06	1	S2055.D	ZB-624 (20) 0.18(mm)
480-188016-5	MW-12	08/09/2021 17:30	1	S2056.D	ZB-624 (20) 0.18(mm)
480-188016-6	MW-86-1SH	08/09/2021 17:53	1	S2057.D	ZB-624 (20) 0.18(mm)
480-188016-7	MW-86-X3	08/09/2021 18:16	1	S2058.D	ZB-624 (20) 0.18(mm)
480-188016-8	MW-99-02	08/09/2021 18:39	1	S2059.D	ZB-624 (20) 0.18(mm)
480-188016-9	MW-99-04	08/09/2021 19:03	1	S2060.D	ZB-624 (20) 0.18(mm)
480-188016-10	MW-86-27	08/09/2021 19:26	1	S2061.D	ZB-624 (20) 0.18(mm)
480-188016-11	DUP-080321	08/09/2021 19:49	1	S2062.D	ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 20:12	2		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 20:35	1		ZB-624 (20) 0.18(mm)
480-188016-1 MS	MW-99-03 MS	08/09/2021 20:58	1	S2065.D	ZB-624 (20) 0.18(mm)
480-188016-1 MSD	MW-99-03 MSD	08/09/2021 21:21	1	S2066.D	ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 21:45	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 22:08	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 22:31	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 22:54	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 23:18	4		ZB-624 (20) 0.18(mm)
ZZZZZ		08/09/2021 23:41	10		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 00:04	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 00:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 00:50	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 01:13	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 01:37	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 02:00	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 02:23	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 02:47	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 03:10	20		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 03:33	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: HP5973S Start Date: 08/09/2021 09:33

Analysis Batch Number: 592153 End Date: 08/10/2021 04:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		08/10/2021 03:57	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 04:20	20		ZB-624 (20) 0.18(mm)
ZZZZZ		08/10/2021 04:43	20		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: HP5973S Start Date: 08/10/2021 23:26

Analysis Batch Number: 592370 End Date: 08/11/2021 10:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-592370/3		08/10/2021 23:26	1	S2118.D	ZB-624 (20) 0.18(mm)
CCVIS 480-592370/4		08/10/2021 23:49	1	S2119.D	ZB-624 (20) 0.18(mm)
LCS 480-592370/6		08/11/2021 00:35	1	S2121.D	ZB-624 (20) 0.18(mm)
RL 480-592370/7		08/11/2021 00:58	1		ZB-624 (20) 0.18(mm)
MB 480-592370/8		08/11/2021 01:21	1	S2123.D	ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 01:44	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 02:07	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 02:30	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 02:53	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 03:16	1		ZB-624 (20) 0.18(mm)
480-188016-12	TB-080321	08/11/2021 03:39	1	S2129.D	ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 04:02	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 04:26	4		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 04:49	5		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 05:12	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 05:35	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 05:58	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 06:22	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 06:45	80		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 07:08	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 07:31	2		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 07:54	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 08:17	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 08:41	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 09:04	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 09:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 09:50	80		ZB-624 (20) 0.18(mm)
ZZZZZ		08/11/2021 10:14	80		ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 590807 Batch Start Date: 07/28/21 16:36 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00211	BFB_WRK 00124	GAS CORP mix 00465	S_8260_IS 00350
BFB 480-590807/4		8260C		1 uL	1 uL		1 uL		
IC 480-590807/6		8260C		5 mL	5 mL	0.5 uL		0.5 uL	1 uL
IC 480-590807/7		8260C		5 mL	5 mL	1 uL		1 uL	1 uL
IC 480-590807/8		8260C		5 mL	5 mL	2 uL		2 uL	1 uL
IC 480-590807/9		8260C		5 mL	5 mL	5 uL		5 uL	1 uL
IC 480-590807/10		8260C		5 mL	5 mL	5 uL		5 uL	1 uL
ICIS 480-590807/11		8260C		5 mL	5 mL	12.5 uL		12.5 uL	1 uL
IC 480-590807/12		8260C		5 mL	5 mL	25 uL		25 uL	1 uL
IC 480-590807/13		8260C		5 mL	5 mL	50 uL		50 uL	1 uL
ICV 480-590807/27		8260C		5 mL	5 mL				1 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_Surr 00394	SS 8260 CORP 00093	SS GAS CORP 00414			
BFB 480-590807/4		8260C							
IC 480-590807/6		8260C		1 uL					
IC 480-590807/7		8260C		1 uL					
IC 480-590807/8		8260C		1 uL					
IC 480-590807/9		8260C		1 uL					
IC 480-590807/10		8260C		1 uL					
ICIS 480-590807/11		8260C		1 uL					
IC 480-590807/12		8260C		1 uL					
IC 480-590807/13		8260C		1 uL					
ICV 480-590807/27		8260C		1 uL	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.: 480-188016-1

SDG No.:

Batch Number: 590807 Batch Start Date: 07/28/21 16:36 Batch Analyst: Hill, Leah C

Batch Method: 8260C Batch End Date:

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592153 Batch Start Date: 08/09/21 09:33 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00211	BFB_WRK 00123	GAS CORP mix 00466
BFB 480-592153/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-592153/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-592153/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-592153/7		8260C		5 mL	5 mL				
480-188016-D-1	MW-99-03	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-2	MW-86-24A	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-3	MW-99-01	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-4	MW-86-28	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-5	MW-12	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-6	MW-86-1SH	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-7	MW-86-X3	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-8	MW-99-02	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-9	MW-99-04	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-10	MW-86-27	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-11	DUP-080321	8260C	T	5 mL	5 mL	<2 SU			
480-188016-D-1 MS	MW-99-03	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-188016-D-1 MSD	MW-99-03	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00350	S_8260_Surr 00394				
BFB 480-592153/2		8260C							
CCVIS 480-592153/3		8260C		1 uL	1 uL				
LCS 480-592153/5		8260C		1 uL	1 uL				
MB 480-592153/7		8260C		1 uL	1 uL				
480-188016-D-1	MW-99-03	8260C	T	1 uL	1 uL				
480-188016-D-2	MW-86-24A	8260C	T	1 uL	1 uL				
480-188016-D-3	MW-99-01	8260C	T	1 uL	1 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.: 480-188016-1

SDG No.:

Batch Number: 592153 Batch Start Date: 08/09/21 09:33 Batch Analyst: Kiwan, Ahmad x

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00350	S_8260_Surr 00394				
480-188016-D-4	MW-86-28	8260C	T	1 uL	1 uL				
480-188016-D-5	MW-12	8260C	T	1 uL	1 uL				
480-188016-D-6	MW-86-1SH	8260C	T	1 uL	1 uL				
480-188016-D-7	MW-86-X3	8260C	T	1 uL	1 uL				
480-188016-D-8	MW-99-02	8260C	T	1 uL	1 uL				
480-188016-D-9	MW-99-04	8260C	T	1 uL	1 uL				
480-188016-D-10	MW-86-27	8260C	T	1 uL	1 uL				
480-188016-D-11	DUP-080321	8260C	T	1 uL	1 uL				
480-188016-D-1 MS	MW-99-03	8260C	T	1 uL	1 uL				
480-188016-D-1 MSD	MW-99-03	8260C	T	1 uL	1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592370 Batch Start Date: 08/10/21 23:26 Batch Analyst: LaPointe, Cody R

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00210	BFB_WRK 00123	GAS CORP mix 00467
BFB 480-592370/3		8260C		1 uL	1 uL			1 uL	
CCVIS 480-592370/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-592370/6		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-592370/8		8260C		5 mL	5 mL				
480-188016-A-12	TB-080321	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00350	S_8260_Surr 00394				
BFB 480-592370/3		8260C							
CCVIS 480-592370/4		8260C		1 uL	1 uL				
LCS 480-592370/6		8260C		1 uL	1 uL				
MB 480-592370/8		8260C		1 uL	1 uL				
480-188016-A-12	TB-080321	8260C	T	1 uL	1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PFC_IDA

Fluorinated Alkyl Substances

FORM II
PFAS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	C4PFHA #	PFHxS #	M262FTS #	PFOA #
MW-86-1SH	480-188016-6	88	99	104	99	102	104	107	103
MW-86-X3	480-188016-7	86	98	106	100	103	107	113	103
MW-99-02	480-188016-8	82	98	102	97	98	103	104	102
MW-99-04	480-188016-9	80	96	103	99	100	101	106	101
MW-86-27	480-188016-10	88	97	102	103	101	104	107	103
DUP-080321	480-188016-11	83	98	105	103	105	108	110	105
FB-080321	480-188016-13	94	101	108	102	98	104	108	106
EB-080321	480-188016-14	74	100	107	102	99	104	107	100
	MB 200-170043/1-A	95	102	110	107	105	104	105	105
	LCS 200-170043/2-A	96	103	107	101	94	105	116	99
MW-86-1SH MS	480-188016-6 MS	83	97	98	97	98	96	100	100
MW-86-1SH MSD	480-188016-6 MSD	87	98	105	97	98	103	105	107

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
C3PFBS = 13C3 PFBS	50-150
PFHxA = 13C2 PFHxA	50-150
PFHxS = 18O2 PFHxS	50-150
C4PFHA = 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
PFAS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

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 #
MW-86-1SH	480-188016-6	101	98	101	107	96	92	95	85
MW-86-X3	480-188016-7	91	99	98	87	96	86	86	77
MW-99-02	480-188016-8	98	98	98	96	90	88	92	86
MW-99-04	480-188016-9	92	96	95	95	97	89	87	82
MW-86-27	480-188016-10	99	96	97	90	95	89	80	78
DUP-080321	480-188016-11	99	97	99	92	94	92	86	91
FB-080321	480-188016-13	100	97	101	102	80	93	95	93
EB-080321	480-188016-14	100	101	100	95	83	96	94	90
	MB 200-170043/1-A	102	104	103	107	89	102	97	97
	LCS 200-170043/2-A	100	98	99	100	88	93	103	98
MW-86-1SH MS	480-188016-6 MS	99	97	98	93	92	84	90	85
MW-86-1SH MSD	480-188016-6 MSD	103	99	99	94	94	93	92	89

	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
PFAS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDoA #	PFTDA #
MW-86-1SH	480-188016-6	93	90
MW-86-X3	480-188016-7	82	82
MW-99-02	480-188016-8	85	84
MW-99-04	480-188016-9	87	87
MW-86-27	480-188016-10	79	79
DUP-080321	480-188016-11	85	89
FB-080321	480-188016-13	88	80
EB-080321	480-188016-14	89	83
	MB 200-170043/1-A	95	92
	LCS 200-170043/2-A	95	88
MW-86-1SH MS	480-188016-6 MS	83	83
MW-86-1SH MSD	480-188016-6 MSD	85	88

	QC LIMITS
PFDoA = 13C2 PFDoA	50-150
PFTDA = 13C2 PFTeDA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PA210811A09.d

Lab ID: LCS 200-170043/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	42.5	106	50-150	
Perfluoropentanoic acid (PFPeA)	40.0	38.9	97	50-150	
Perfluorohexanoic acid (PFHxA)	40.0	39.3	98	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	42.3	106	70-130	
Perfluorooctanoic acid (PFOA)	40.0	41.7	104	70-130	
Perfluorononanoic acid (PFNA)	40.0	40.8	102	70-130	
Perfluorodecanoic acid (PFDA)	40.0	41.3	103	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	39.3	98	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	39.4	99	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	37.0	93	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	39.9	100	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	36.6	104	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.2	94	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.3	108	50-150	
Perfluorodecanesulfonic acid (PFDS)	38.6	37.4	97	50-150	
Perfluorooctanesulfonic acid (PFOS)	37.1	35.5	96	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	37.6	94	50-150	
13C8 FOSA	50.0	44.2	88	25-150	
13C4 PFBA	50.0	48.0	96	25-150	
13C5 PFPeA	50.0	51.7	103	25-150	
13C2 PFHxA	50.0	50.4	101	50-150	
13C4 PFHpA	50.0	47.2	94	50-150	
13C4 PFOA	50.0	49.5	99	50-150	
13C5 PFNA	50.0	49.1	98	50-150	
13C2 PFDA	50.0	49.7	99	50-150	
13C2 PFUnA	50.0	51.5	103	50-150	
13C2 PFDoA	50.0	47.3	95	50-150	
13C2 PFTeDA	50.0	43.8	88	50-150	
13C3 PFBS	46.5	49.7	107	50-150	
18O2 PFHxS	47.3	49.5	105	50-150	
13C4 PFOS	47.8	47.9	100	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	46.3	116	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PA210811A09.d

Lab ID: LCS 200-170043/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.2	101	70-130	
d3-NMeFOSAA	50.0	46.5	93	50-150	
d5-NEtFOSAA	50.0	48.9	98	50-150	
6:2 FTS	37.9	34.4	91	50-150	
8:2 FTS	38.3	40.3	105	50-150	
M2-6:2 FTS	47.5	55.0	116	25-150	
M2-8:2 FTS	47.9	48.0	100	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PA210811A11.d

Lab ID: 480-188016-6 MS Client ID: MW-86-1SH MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	38.2	8.2	47.1	102	40-160	
Perfluoropentanoic acid (PFPeA)	38.2	17	52.8	95	40-160	
Perfluorohexanoic acid (PFHxA)	38.2	17	51.5	91	40-160	
Perfluoroheptanoic acid (PFHpA)	38.2	3.5	40.7	97	40-160	
Perfluorooctanoic acid (PFOA)	38.2	9.9	48.4	101	40-160	
Perfluorononanoic acid (PFNA)	38.2	1.9	39.6	99	40-160	
Perfluorodecanoic acid (PFDA)	38.2	0.29 J	35.0	91	40-160	
Perfluoroundecanoic acid (PFUnA)	38.2	ND	39.0	102	40-160	
Perfluorododecanoic acid (PFDoA)	38.2	ND	37.2	98	40-160	
Perfluorotridecanoic acid (PFTriA)	38.2	ND	36.2	95	40-160	
Perfluorotetradecanoic acid (PFTeA)	38.2	ND	38.9	102	40-160	
Perfluorobutanesulfonic acid (PFBS)	33.7	2.6	36.9	102	40-160	
Perfluorohexanesulfonic acid (PFHxS)	34.7	1.4 J	35.4	98	40-160	
Perfluoroheptanesulfonic Acid (PFHpS)	36.3	0.38 J	36.4	99	40-160	
Perfluorodecanesulfonic acid (PFDS)	36.8	ND	30.2	82	40-160	
Perfluorooctanesulfonic acid (PFOS)	35.4	17	47.9	88	40-160	
Perfluorooctanesulfonamide (FOSA)	38.2	ND	37.3	98	40-160	
13C8 FOSA	47.7	45	43.7	92	25-150	
13C4 PFBA	47.7	42	39.4	83	25-150	
13C5 PFPeA	47.7	47	46.4	97	25-150	
13C2 PFHxA	47.7	47	46.3	97	50-150	
13C4 PFHpA	47.7	48	46.7	98	50-150	
13C4 PFOA	47.7	49	47.5	100	50-150	
13C5 PFNA	47.7	46	46.4	97	50-150	
13C2 PFDA	47.7	48	46.6	98	50-150	
13C2 PFUnA	47.7	45	42.9	90	50-150	
13C2 PFDoA	47.7	44	39.4	83	50-150	
13C2 PFTeDA	47.7	42	39.4	83	50-150	
13C3 PFBS	44.4	46	43.5	98	50-150	
18O2 PFHxS	45.1	46	43.4	96	50-150	
13C4 PFOS	45.6	46	45.0	99	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	38.2	ND	40.7	107	40-160	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PA210811A11.d

Lab ID: 480-188016-6 MS Client ID: MW-86-1SH MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38.2	ND	35.9	94	40-160	
d3-NMeFOSAA	47.7	43	39.8	84	50-150	
d5-NEtFOSAA	47.7	40	40.4	85	50-150	
6:2 FTS	36.2	ND	35.7	99	40-160	
8:2 FTS	36.6	ND	37.2	102	40-160	
M2-6:2 FTS	45.3	48	45.2	100	25-150	
M2-8:2 FTS	45.7	48	42.7	93	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PA210811A12.d

Lab ID: 480-188016-6 MSD Client ID: MW-86-1SH MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	38.3	46.9	101	0	30	40-160	
Perfluoropentanoic acid (PFPeA)	38.3	53.9	97	2	30	40-160	
Perfluorohexanoic acid (PFHxA)	38.3	54.1	97	5	20	40-160	
Perfluoroheptanoic acid (PFHpA)	38.3	41.8	100	3	20	40-160	
Perfluorooctanoic acid (PFOA)	38.3	44.0	89	9	20	40-160	
Perfluorononanoic acid (PFNA)	38.3	41.0	102	3	20	40-160	
Perfluorodecanoic acid (PFDA)	38.3	36.6	95	4	20	40-160	
Perfluoroundecanoic acid (PFUnA)	38.3	36.5	95	7	20	40-160	
Perfluorododecanoic acid (PFDoA)	38.3	37.4	98	1	20	40-160	
Perfluorotridecanoic acid (PFTriA)	38.3	35.5	93	2	20	40-160	
Perfluorotetradecanoic acid (PFTeA)	38.3	35.8	94	8	20	40-160	
Perfluorobutanesulfonic acid (PFBS)	33.8	34.8	95	6	20	40-160	
Perfluorohexanesulfonic acid (PFHxS)	34.8	34.7	96	2	20	40-160	
Perfluoroheptanesulfonic Acid (PFHpS)	36.4	37.8	103	4	30	40-160	
Perfluorodecanesulfonic acid (PFDS)	36.9	29.2	79	3	30	40-160	
Perfluorooctanesulfonic acid (PFOS)	35.5	47.3	87	1	20	40-160	
Perfluorooctanesulfonamide (FOSA)	38.3	37.3	97	0	30	40-160	
13C8 FOSA	47.9	45.1	94			25-150	
13C4 PFBA	47.9	41.8	87			25-150	
13C5 PFPeA	47.9	47.0	98			25-150	
13C2 PFHxA	47.9	46.6	97			50-150	
13C4 PFHpA	47.9	46.8	98			50-150	
13C4 PFOA	47.9	51.2	107			50-150	
13C5 PFNA	47.9	47.4	99			50-150	
13C2 PFDA	47.9	47.2	99			50-150	
13C2 PFUnA	47.9	44.0	92			50-150	
13C2 PFDoA	47.9	40.5	85			50-150	
13C2 PFTeDA	47.9	41.9	88			50-150	
13C3 PFBS	44.5	46.9	105			50-150	
18O2 PFHxS	45.3	46.4	103			50-150	
13C4 PFOS	45.8	46.9	103			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	38.3	36.8	96	10	20	40-160	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
PFAS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Matrix: Water Level: Low Lab File ID: PA210811A12.d

Lab ID: 480-188016-6 MSD Client ID: MW-86-1SH MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	38.3	35.0	91	3	20	40-160	
d3-NMeFOSAA	47.9	44.5	93			50-150	
d5-NEtFOSAA	47.9	42.7	89			50-150	
6:2 FTS	36.3	37.0	102	4	30	40-160	
8:2 FTS	36.7	40.0	109	7	30	40-160	
M2-6:2 FTS	45.5	47.9	105			25-150	
M2-8:2 FTS	45.8	43.3	94			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
PFAS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab File ID: PA210811A08.d Lab Sample ID: MB 200-170043/1-A

Matrix: Water Date Extracted: 08/10/2021 14:14

Instrument ID: LC812 Date Analyzed: 08/11/2021 13:43

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-170043/2-A	PA210811A09.d	08/11/2021 13:51
MW-86-1SH	480-188016-6	PA210811A10.d	08/11/2021 14:00
MW-86-1SH MS	480-188016-6 MS	PA210811A11.d	08/11/2021 14:08
MW-86-1SH MSD	480-188016-6 MSD	PA210811A12.d	08/11/2021 14:16
MW-86-X3	480-188016-7	PA210811A14.d	08/11/2021 14:33
MW-99-02	480-188016-8	PA210811A15.d	08/11/2021 14:41
MW-99-04	480-188016-9	PA210811A16.d	08/11/2021 14:49
MW-86-27	480-188016-10	PA210811A17.d	08/11/2021 14:58
DUP-080321	480-188016-11	PA210811A18.d	08/11/2021 15:06
FB-080321	480-188016-13	PA210811A19.d	08/11/2021 15:14
EB-080321	480-188016-14	PA210811A20.d	08/11/2021 15:22

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Sample No.: ICIS 200-168873/5 Date Analyzed: 07/08/2021 15:43

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm)

Lab File ID (Standard): PA210708ICAL05.d Heated Purge: (Y/N) N

Calibration ID: 46161

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT		1450404	3.51				
UPPER LIMIT		2175606	3.71				
LOWER LIMIT		725202	3.31				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 200-168873/8		1414552	3.50				
ICV 200-168873/9		1553362	3.50				
CCVL 200-170086/5		1435597	3.53				
CCVIS 200-170086/6		1527636	3.52				

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 537 (MODIFIED)

FORM VIII
PFAS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Sample No.: CCVIS 200-170086/6 Date Analyzed: 08/11/2021 13:26

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm)

Lab File ID (Standard): PA210811A06.d Heated Purge: (Y/N) N

Calibration ID: 46161

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1527636	3.52				
UPPER LIMIT		2291454	3.72				
LOWER LIMIT		763818	3.32				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-170043/1-A		1367960	3.52				
LCS 200-170043/2-A		1398987	3.53				
480-188016-6	MW-86-1SH	1392401	3.52				
480-188016-6 MS	MW-86-1SH MS	1457865	3.53				
480-188016-6 MSD	MW-86-1SH MSD	1387823	3.53				
CCV 200-170086/13		1556377	3.53				
480-188016-7	MW-86-X3	1441280	3.53				
480-188016-8	MW-99-02	1414987	3.53				
480-188016-9	MW-99-04	1419909	3.53				
480-188016-10	MW-86-27	1473035	3.53				
480-188016-11	DUP-080321	1394281	3.53				
480-188016-13	FB-080321	1422825	3.53				
480-188016-14	EB-080321	1410813	3.52				
CCV 200-170086/24		1589822	3.53				

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 537 (MODIFIED)

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-1SH Lab Sample ID: 480-188016-6

Matrix: Water Lab File ID: PA210811A10.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 09:13

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 264.2(mL) Date Analyzed: 08/11/2021 14:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	8.2		4.7	0.85
2706-90-3	Perfluoropentanoic acid (PFPeA)	17		1.9	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	17		1.9	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	3.5		1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	9.9		1.9	0.40
375-95-1	Perfluorononanoic acid (PFNA)	1.9		1.9	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.29	J	1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.33
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.36
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.60
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.6	B	1.9	0.24
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.4	J	1.9	0.29
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.38	J	1.9	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.29
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	17		1.9	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.55
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	0.85
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	0.70
27619-97-2	6:2 FTS	ND		4.7	1.0
39108-34-4	8:2 FTS	ND		1.9	0.37

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-1SH Lab Sample ID: 480-188016-6

Matrix: Water Lab File ID: PA210811A10.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 09:13

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 264.2(mL) Date Analyzed: 08/11/2021 14:00

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	96		25-150
STL00992	13C4 PFBA	88		25-150
STL01893	13C5 PFPeA	99		25-150
STL00993	13C2 PFHxA	99		50-150
STL01892	13C4 PFHpA	102		50-150
STL00990	13C4 PFOA	103		50-150
STL00995	13C5 PFNA	98		50-150
STL00996	13C2 PFDA	101		50-150
STL00997	13C2 PFUnA	95		50-150
STL00998	13C2 PFDoA	93		50-150
STL02116	13C2 PFTeDA	90		50-150
STL02337	13C3 PFBS	104		50-150
STL00994	18O2 PFHxS	104		50-150
STL00991	13C4 PFOS	101		50-150
STL02118	d3-NMeFOSAA	92		50-150
STL02117	d5-NEtFOSAA	85		50-150
STL02279	M2-6:2 FTS	107		25-150
STL02280	M2-8:2 FTS	107		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d
Lims ID: 480-188016-F-6-A
Client ID: MW-86-1SH
Sample Type: Client
Inject. Date: 11-Aug-2021 14:00:08 ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-F-6-A
Misc. Info.: 200-0047128-010 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:31:39 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 09:30:00
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	2.109	2.082	0.027	0.599	1398004	1.10		87.7	8448	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.082	0.027	1.000	234680	0.2177			35.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.693	1198392	1.24		99.4	2874	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.439	2.413	0.026	1.000	437106	0.4405			29.7	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.466	2.426	0.040	0.701	1231761	1.21		104	92864	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.466	2.426	0.040	1.000	78334	0.0684	Target=2.20		27.3	M
298.90 > 99.00	2.466	2.426	0.040	1.000	37831		2.07(1.10-3.30)		22.8	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.746	2.734	0.012	0.991	57	0.000332			2.0	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.770	2.734	0.036	0.787	103860	1.23		105	46.1	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.807	2.782	0.025	0.798	1314570	1.24		99.0	3259	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.807	2.782	0.025	1.000	471271	0.4454	Target=12.93		78.3	M
313.00 > 119.00	2.807	2.782	0.025	1.000	36030		13.08(6.46-19.39)		89.3	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.807	2.782	0.025	0.887	8639	0.008351	Target=3.71		6.6	M
349.00 > 99.00	2.807	2.782	0.025	0.887	1895		4.56(1.85-5.56)		2.8	M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.912	2.892	0.020	0.827	133581	1.16		93.1	1126	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.892	2.892	0.0	0.993	1383	0.007826			0.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.164	3.154	0.010	0.899	995268	1.23		104	2824	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.164	3.154	0.010	1.000	36961	0.0380	Target=4.48		60.6	M
399.00 > 99.00	3.164	3.154	0.010	1.000	7497		4.93(2.24-6.72)		12.4	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.164	3.154	0.010	1.000	104634	0.0935	Target=3.68		25.1	M
363.00 > 169.00	3.175	3.154	0.021	1.003	27460		3.81(1.84-5.53)		96.4	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.154	0.010	0.899	1352274	1.27		102	2964	
77 DONA										M
377.00 > 251.00	3.208	3.196	0.012	0.836	2224	0.001053	Target=2.47		6.3	M
377.00 > 85.00	3.197	3.196	0.0	0.833	1158		1.92(1.24-3.71)		2.1	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.510	3.510	0.0	0.915	7460	0.0100	Target=6.56		15.7	M
449.00 > 99.00	3.510	3.510	0.0	0.915	1139		6.55(3.28-9.84)		4.6	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.510	3.510	0.0	0.997	143104	1.27		107	285	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.510	3.510	0.0	1.000	324	0.002594			5.6	M
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1415933	1.29		103	3908	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1392401	1.25			3762	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.003	310978	0.2609	Target=2.67		106	
413.00 > 169.00	3.528	3.519	0.009	1.003	131992		2.36(1.33-4.00)		365	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.836	3.836	0.0	1.090	716645	1.21		101	2132	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	294614	0.4384	Target=6.69		187	M
499.00 > 99.00	3.836	3.836	0.0	1.000	37387		7.88(3.34-10.03)		120	M
D 19 13C5 PFNA										
468.00 > 423.00	3.847	3.858	-0.011	1.093	1281523	1.23		98.1	2467	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.859	3.858	0.001	1.003	49829	0.0503	Target=7.21		18.8	M
463.00 > 169.00	3.847	3.858	-0.011	1.000	7226		6.90(3.60-10.81)		73.8	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.992	3.992	0.0	1.041	679	0.000924			9.5	M
D 23 13C2 PFDA										
515.00 > 470.00	4.148	4.148	0.0	1.179	1200074	1.27		101	3236	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.148	4.148	0.0	1.000	7832	0.007664	Target=8.42		8.7	M
513.00 > 169.00	4.160	4.148	0.012	1.003	893		8.77(4.21-12.63)		7.5	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.160	4.160	0.0	1.000	43	0.000604			1.8	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.182	171056	1.28		107	720	
D 21 13C8 FOSA										
506.00 > 78.00	4.235	4.224	0.011	1.203	1251384	1.20		95.8	2435	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.224	4.224	0.0	0.998	1552	0.001585			7.5	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.291	4.280	0.011	1.219	80078	1.15		91.9	837	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.313	4.291	0.022	1.005	170	0.003192			0.7	M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.391	4.369	0.022	1.145	380	0.001000	Target=2.66		5.7	RM
599.00 > 99.00	4.380	4.369	0.011	1.142	343		1.11(1.33-3.99)		3.9	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.254	897116	1.19		95.5	3405	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.391	4.402	-0.011	0.995	810	0.001167	Target=7.70		1.2	RM
563.00 > 169.00	4.391	4.402	-0.011	0.995	36		22.50(3.85-11.56)		0.8	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.413	0.011	1.257	76827	1.06		84.7	465	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.434	4.413	0.021	1.002	275	0.005281			5.3	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.505	4.492	0.013	1.174	780	0.001285			18.7	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.643	4.632	0.011	1.319	899381	1.16		92.6	2049	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.643	4.632	0.011	1.000	2058	0.002834	Target=6.31		0.6	RM
613.00 > 169.00	4.612	4.632	-0.020	0.993	114		18.05(3.15-9.46)		2.2	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.653	4.653	0.0	1.119	30	0.000833			1.9	M
75 Perfluorododecanesulfonic acid (										RM
699.00 > 80.00	4.810	4.810	0.0	1.254	191	0.001478	Target=0.45		4.6	RM
699.00 > 99.00	4.834	4.810	0.024	1.260	114		1.68(0.23-0.68)		1.4	M
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.845	4.845	0.0	1.044	989	0.001580	Target=4.61		0.4	RM
663.00 > 169.00	4.845	4.845	0.0	1.044	48		20.60(2.31-6.92)		0.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.044	5.034	0.010	1.433	682374	1.12		89.6	3449	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	5.053	5.034	0.019	1.002	425	0.004530	Target=1.00		7.5	RM
713.00 > 219.00	5.044	5.034	0.010	1.000	200		2.13(0.50-1.51)		7.3	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.383	5.383	0.0	1.530	717649	1.16		92.6	2766	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.383	5.383	0.0	1.000	7379	0.003468	Target=4.32		5.7	M
813.00 > 169.00	5.394	5.383	0.011	1.002	1745		4.23(2.16-6.48)		34.2	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.719	5.710	0.009	1.063	753	0.001549	Target=3.72		1.0	
913.00 > 169.00	5.719	5.710	0.009	1.063	235		3.20(1.86-5.58)		6.1	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:31:59 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d

Injection Date: 11-Aug-2021 14:00:08 Instrument ID: LC812

Lims ID: 480-188016-F-6-A Lab Sample ID: 200-188016-6

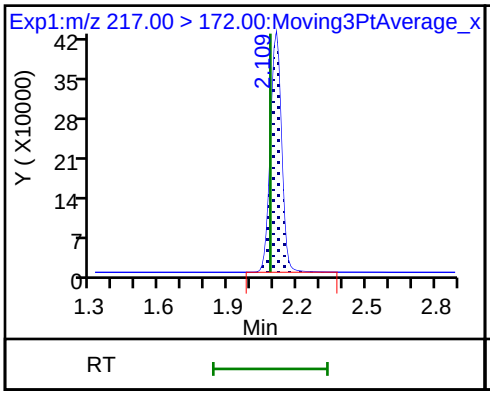
Client ID: MW-86-1SH

Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10

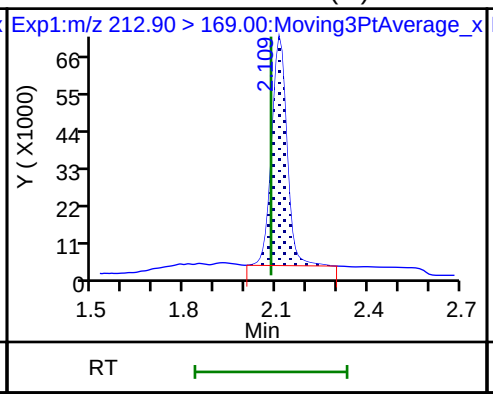
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

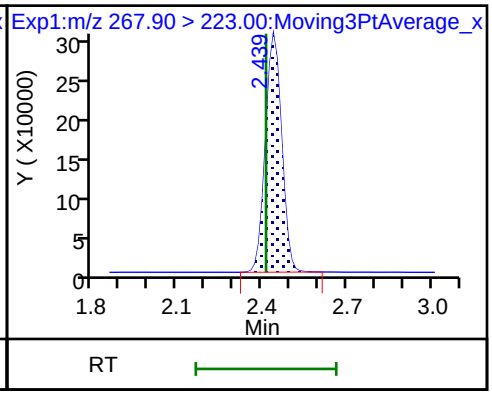
D 1 13C4 PFBA



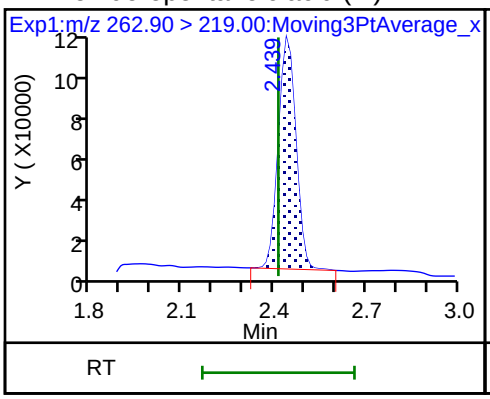
2 Perfluorobutanoic acid (M)



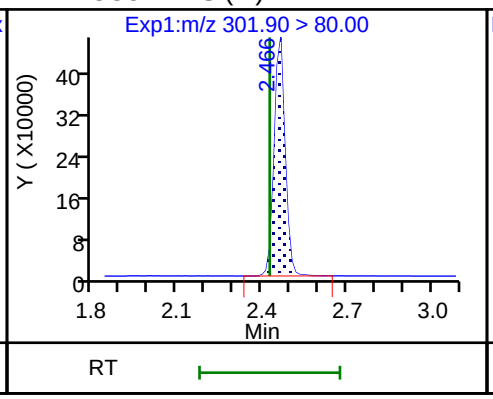
D 3 13C5 PFPeA



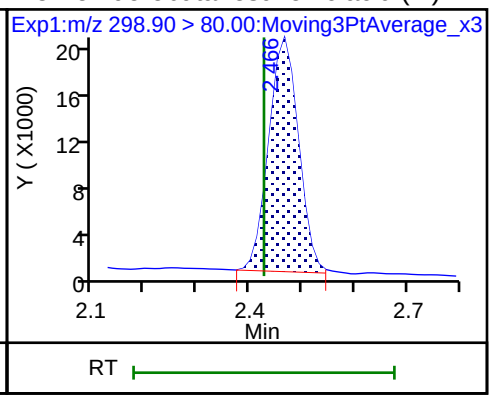
4 Perfluoropentanoic acid (M)



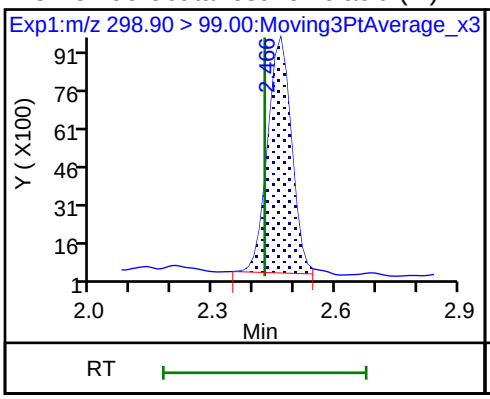
D 47 13C3 PFBS (M)



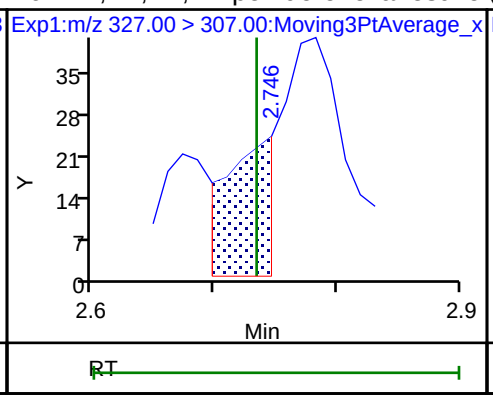
5 Perfluorobutanesulfonic acid (M)



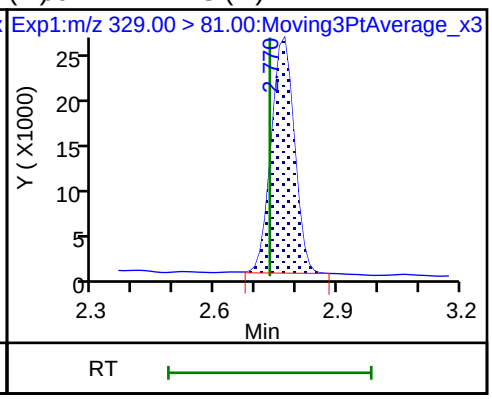
5 Perfluorobutanesulfonic acid (M)



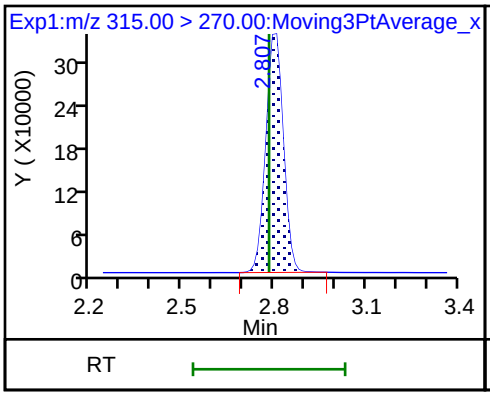
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



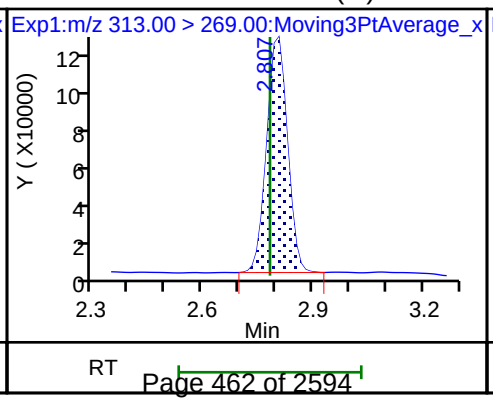
60 M2-4:2 FTS (M)



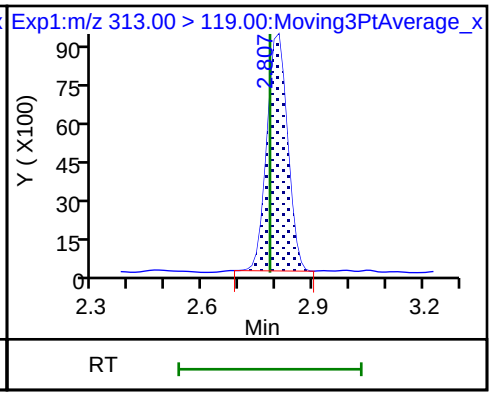
D 7 13C2 PFHxA



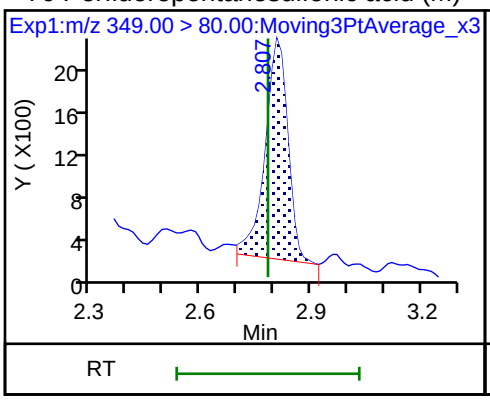
6 Perfluorohexanoic acid (M)



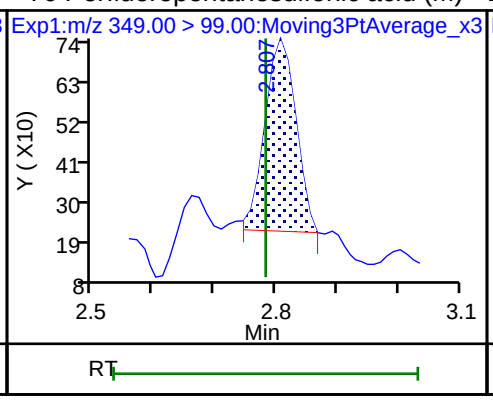
6 Perfluorohexanoic acid



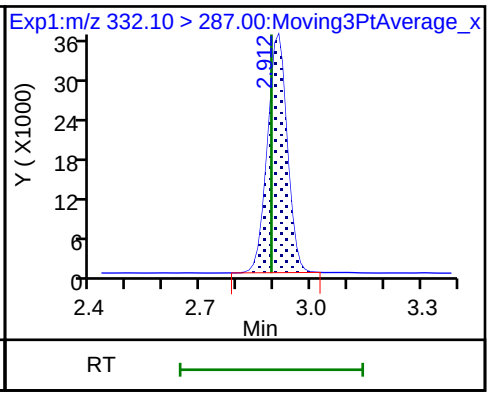
70 Perfluoropentanesulfonic acid (M)



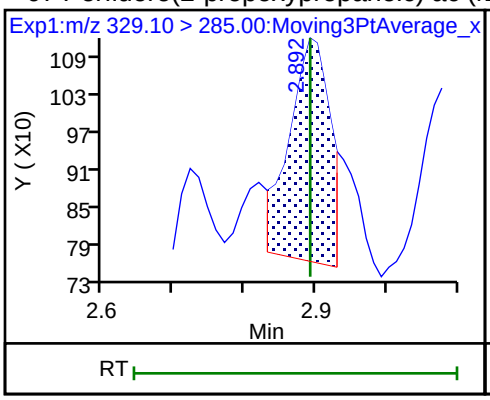
70 Perfluoropentanesulfonic acid (M)



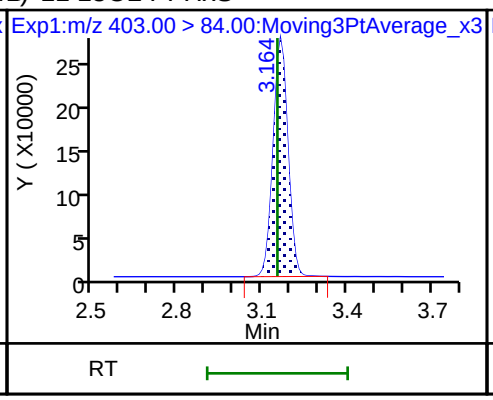
D 64 13C3 HFPO-DA



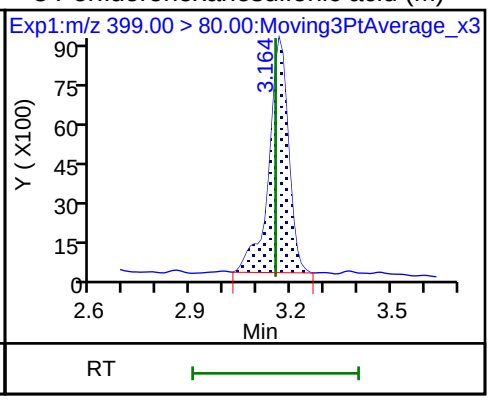
67 Perfluoro(2-propoxypropanoic) ac (M)



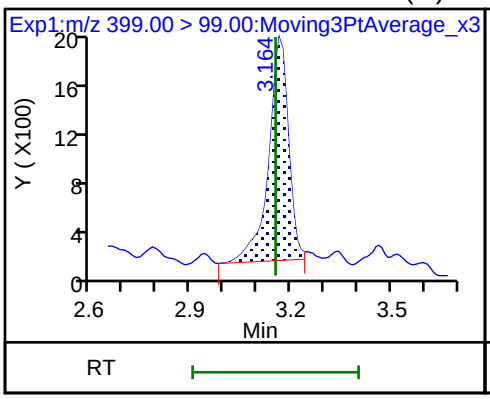
D 11 18O2 PFHxS



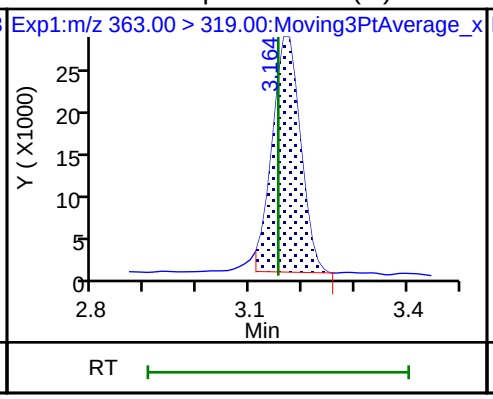
8 Perfluorohexanesulfonic acid (M)



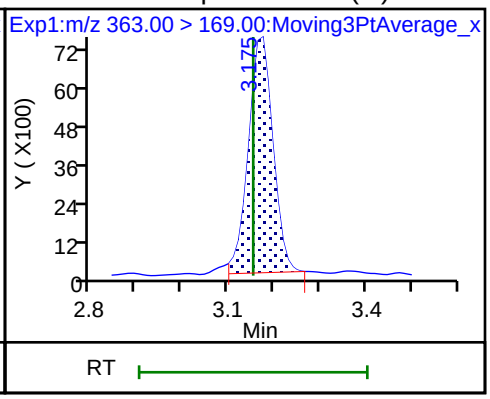
8 Perfluorohexanesulfonic acid (M)



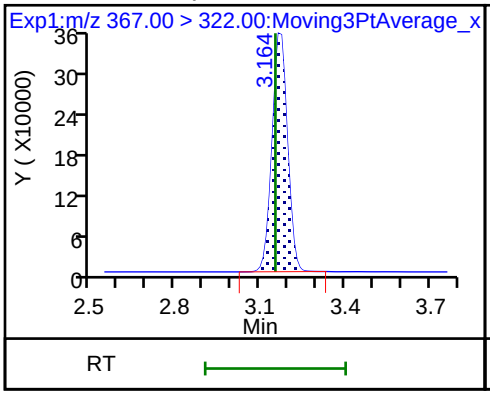
10 Perfluoroheptanoic acid (M)



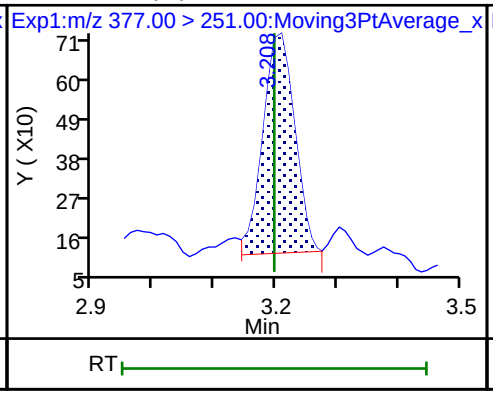
10 Perfluoroheptanoic acid (M)



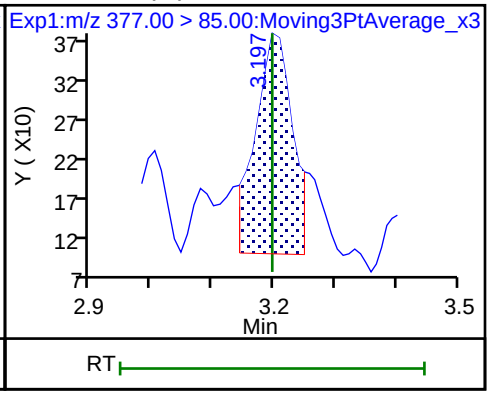
D 9 13C4 PFHpA



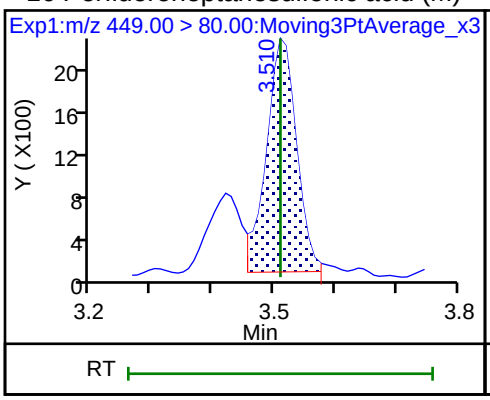
77 DONA (M)



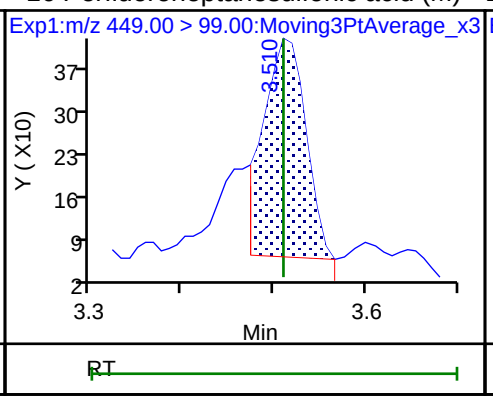
77 DONA (M)



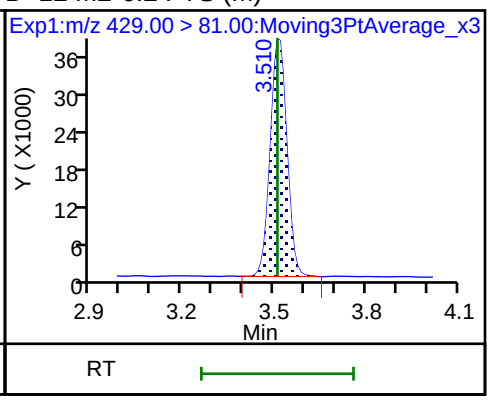
16 Perfluoroheptanesulfonic acid (M)



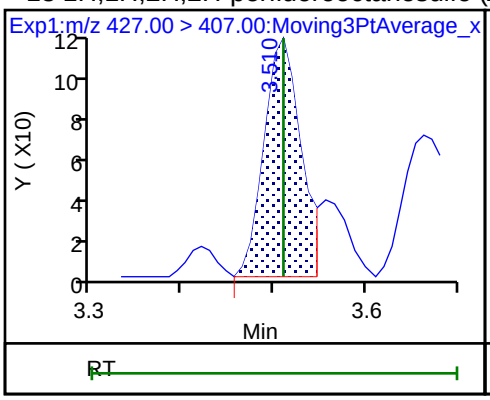
16 Perfluoroheptanesulfonic acid (M)



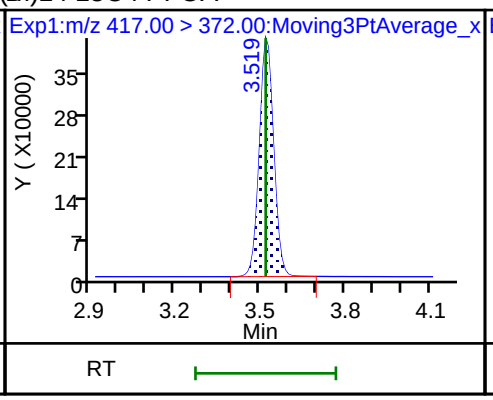
D 12 M2-6:2 FTS (M)



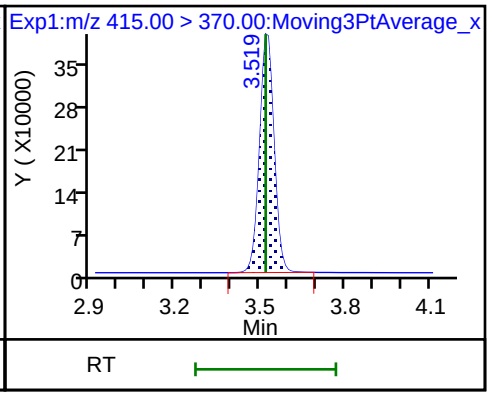
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



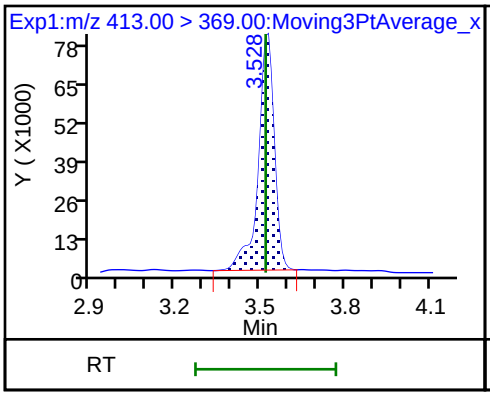
D 14 13C4 PFOA



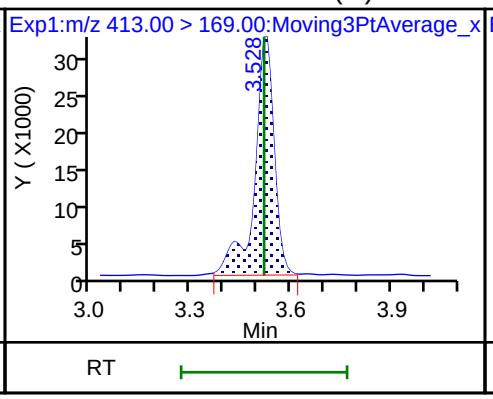
* 62 13C2 PFOA



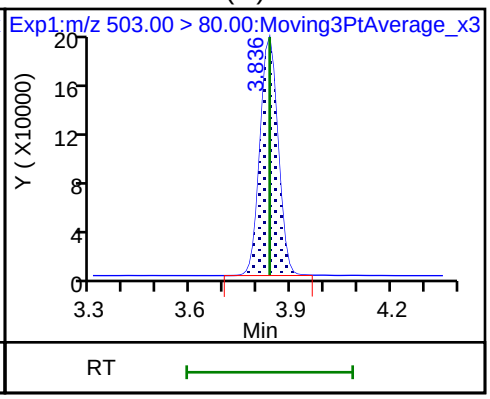
15 Perfluorooctanoic acid



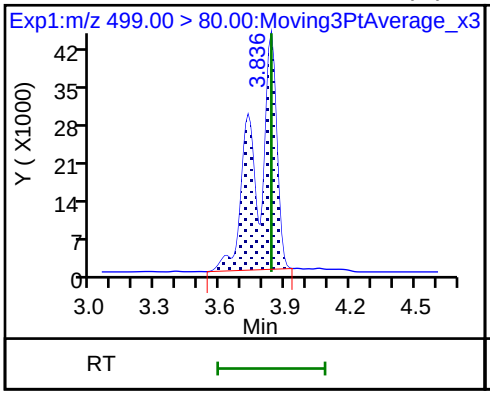
15 Perfluorooctanoic acid (M)



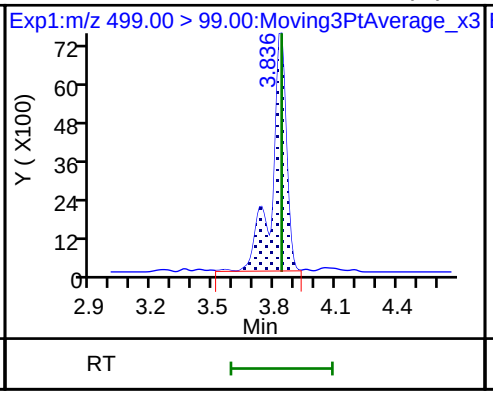
D 18 13C4 PFOS (M)



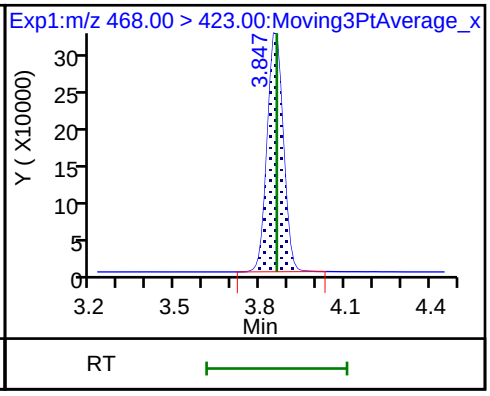
17 Perfluorooctanesulfonic acid (M)



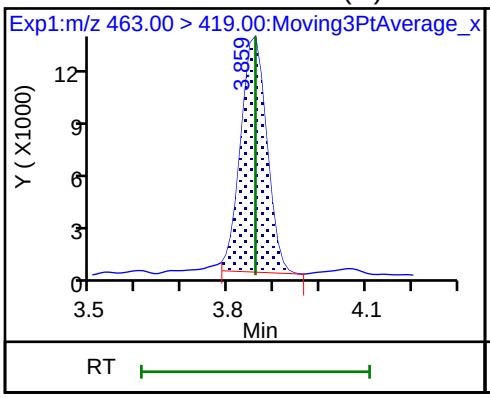
17 Perfluorooctanesulfonic acid (M)



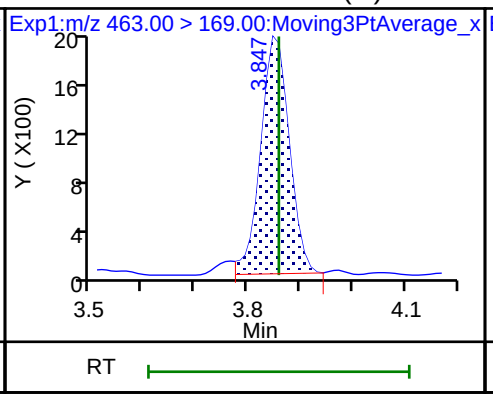
D 19 13C5 PFNA



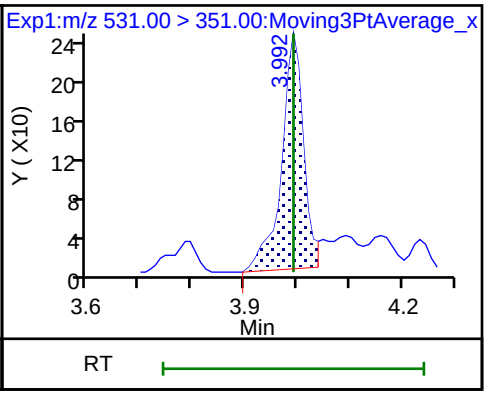
20 Perfluorononanoic acid (M)



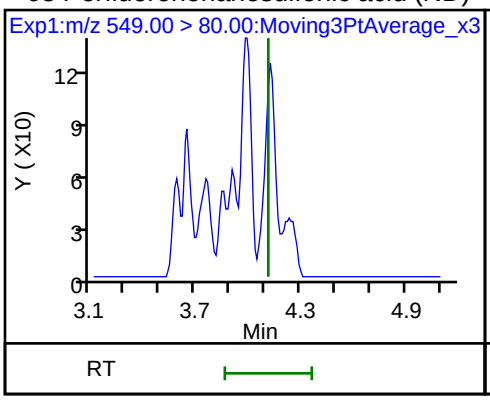
20 Perfluorononanoic acid (M)



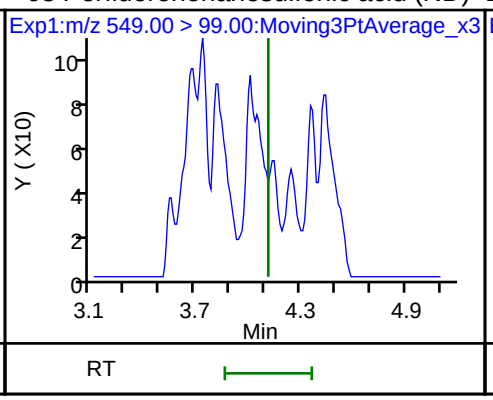
69 9-Chlorohexadecafluoro-3-oxanona (M)



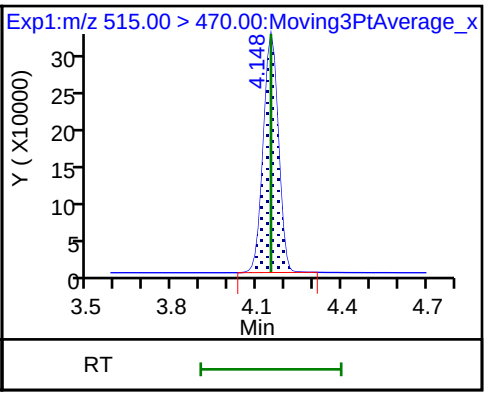
68 Perfluorononanesulfonic acid (ND)



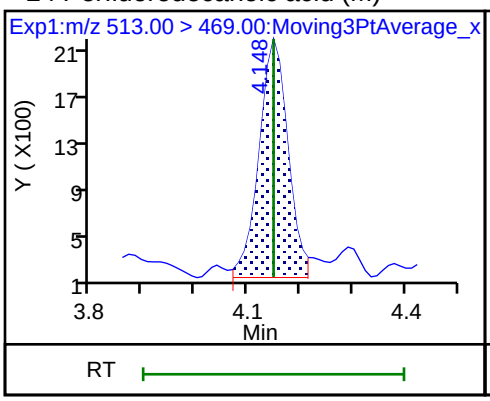
68 Perfluorononanesulfonic acid (ND)



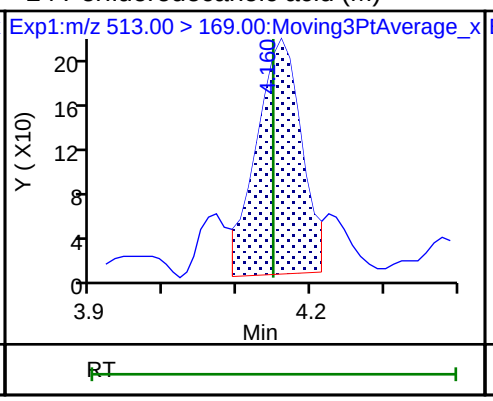
D 23 13C2 PFDA



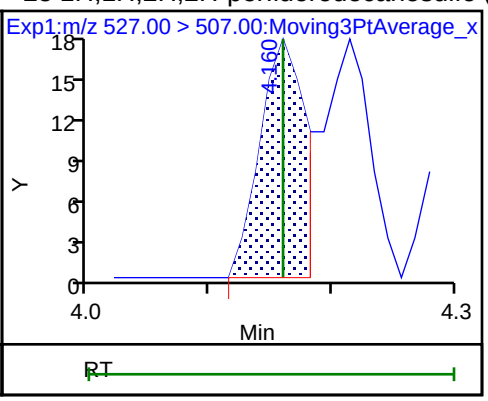
24 Perfluorodecanoic acid (M)



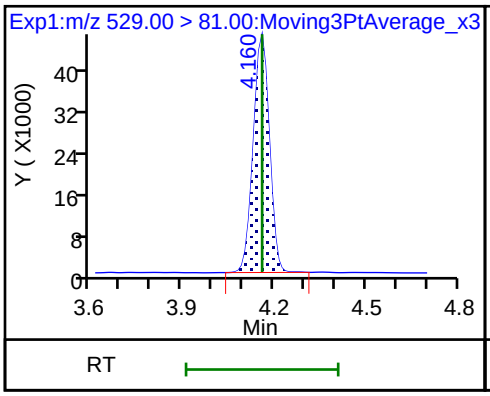
24 Perfluorodecanoic acid (M)



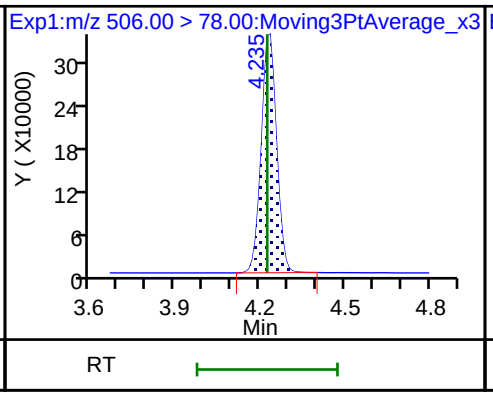
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



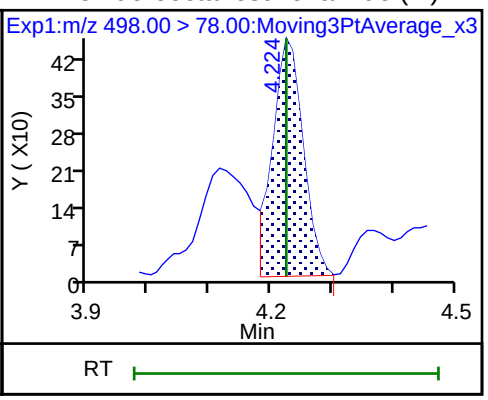
D 26 M2-8:2 FTS



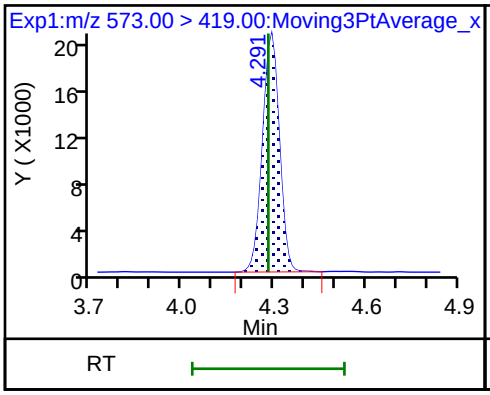
D 21 13C8 FOSA



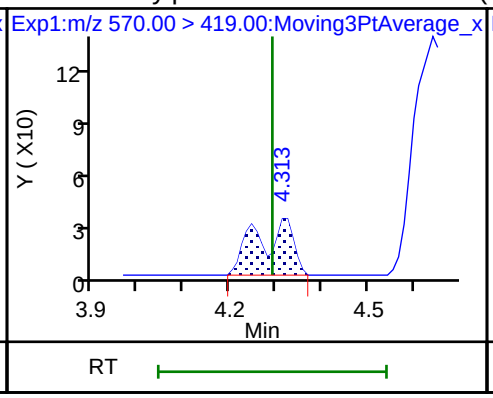
22 Perfluorooctanesulfonamide (M)



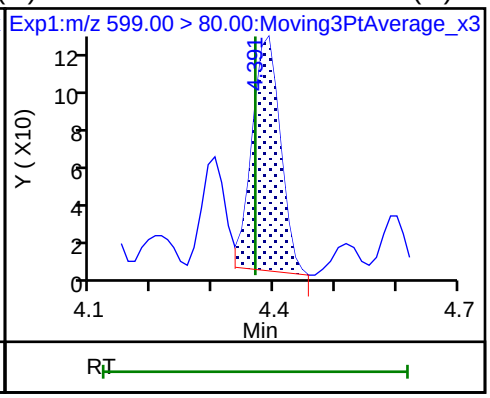
D 27 d3-NMeFOSAA



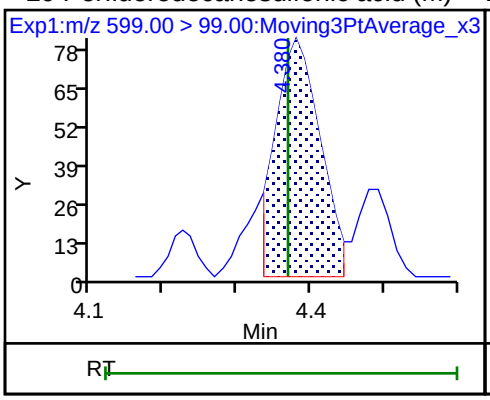
28 N-methylperfluorooctanesulfonami (M)



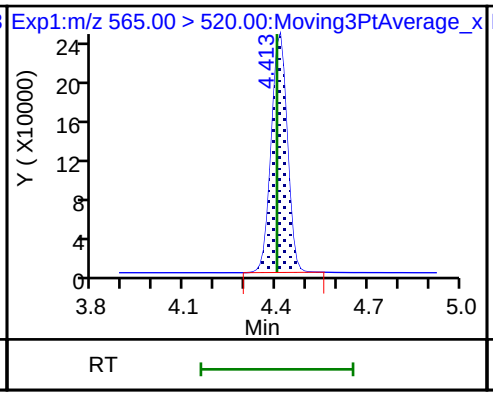
29 Perfluorodecanesulfonic acid (M)



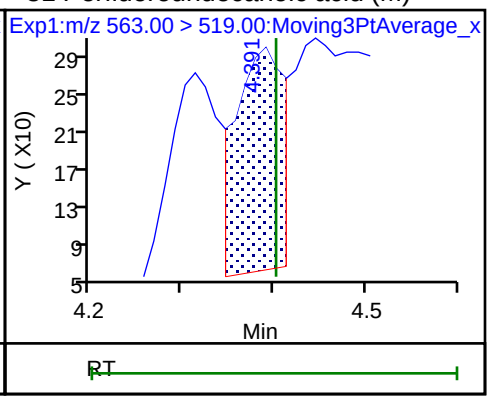
29 Perfluorodecanesulfonic acid (M)



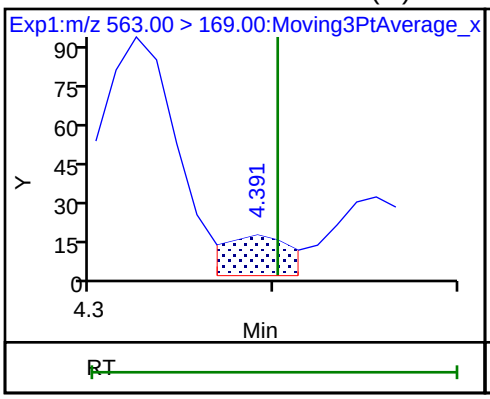
D 30 13C2 PFUnA



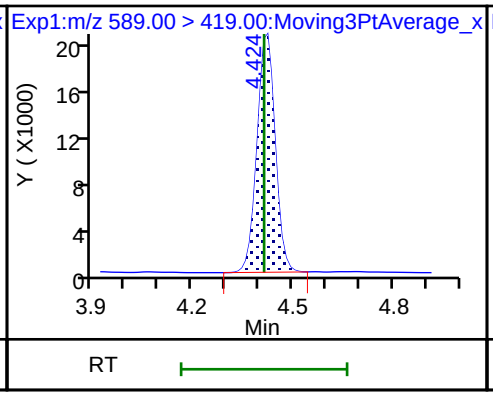
31 Perfluoroundecanoic acid (M)



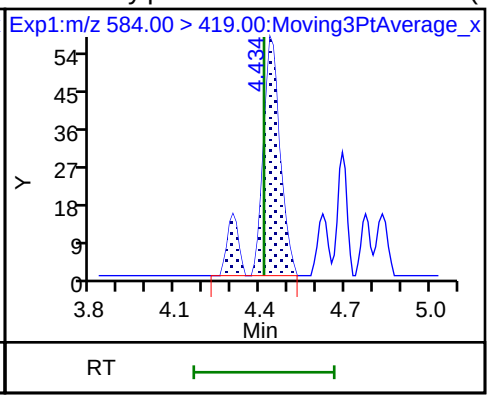
31 Perfluoroundecanoic acid (M)



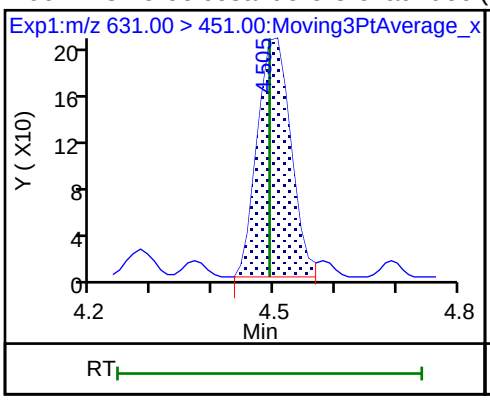
D 32 d5-NEtFOSAA



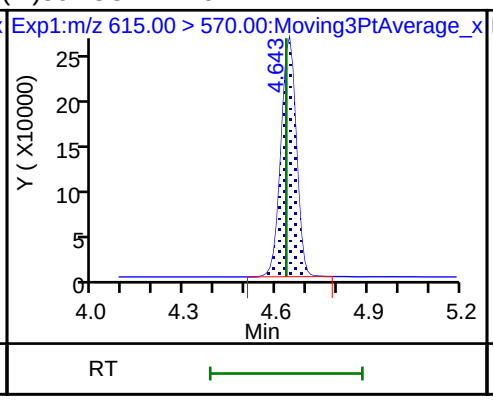
33 N-ethylperfluorooctanesulfonamid (M)



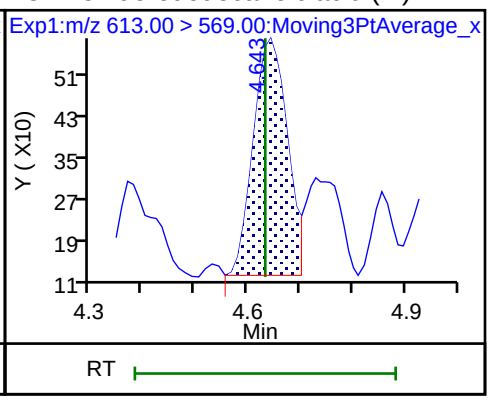
66 11-Chloroeicosafluoro-3-oxaundec (M)



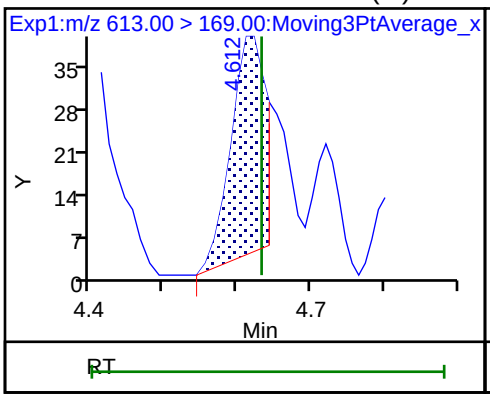
D 36 13C2 PFDoA



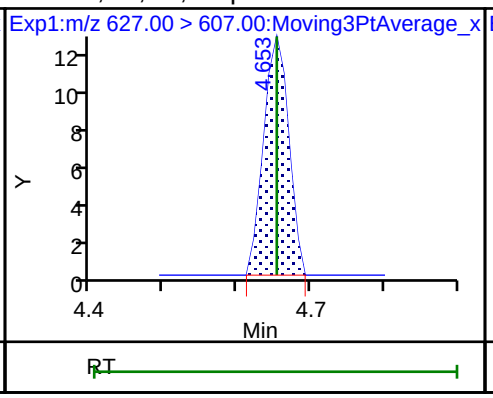
37 Perfluorododecanoic acid (M)



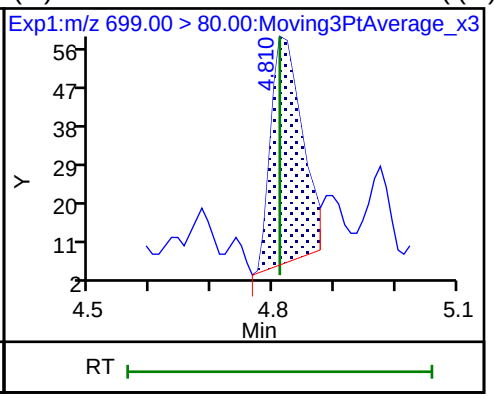
37 Perfluorododecanoic acid (M)



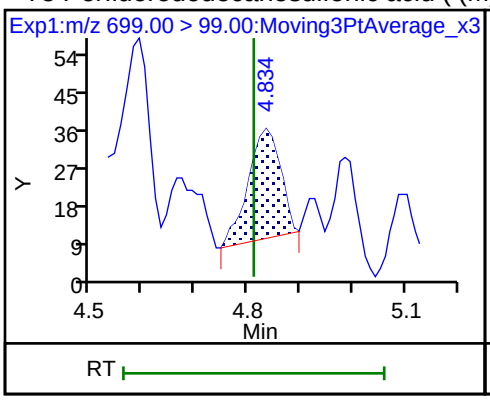
74 1H,1H,2H,2H-perfluorododecanesul (M)



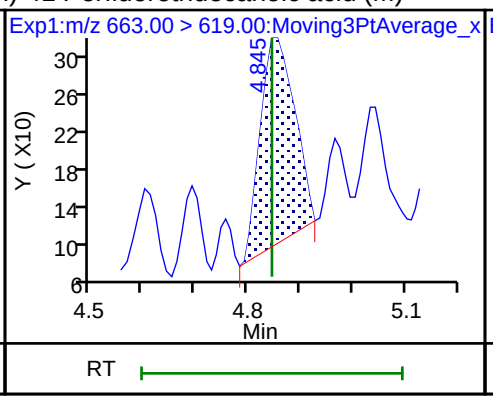
75 Perfluorododecanesulfonic acid ((M)



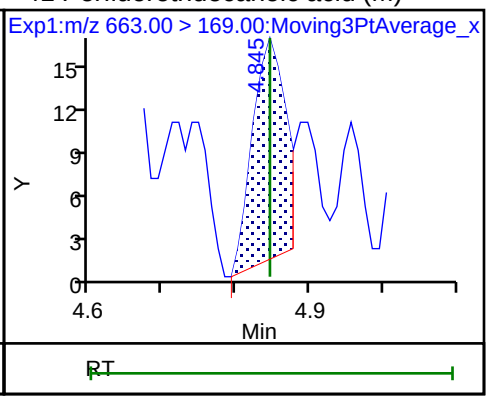
75 Perfluorododecanesulfonic acid ((M)



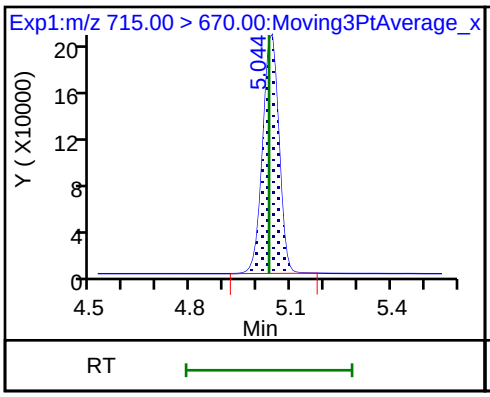
41 Perfluorotridecanoic acid (M)



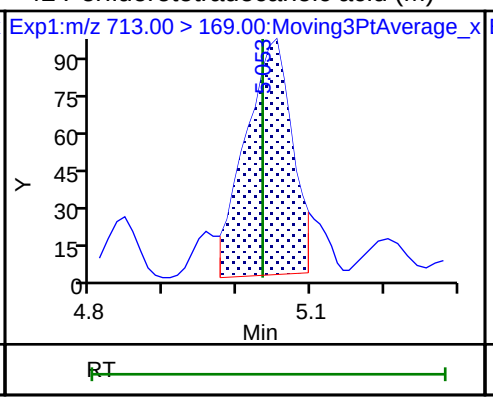
41 Perfluorotridecanoic acid (M)



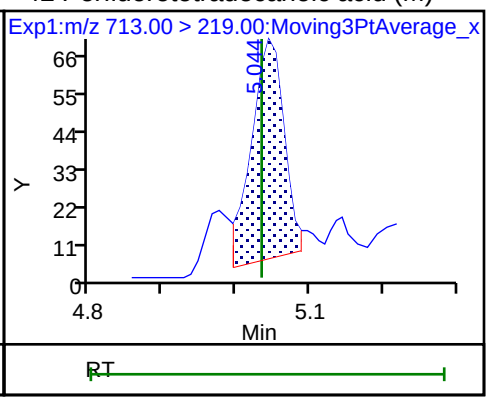
D 43 13C2 PFTeDA



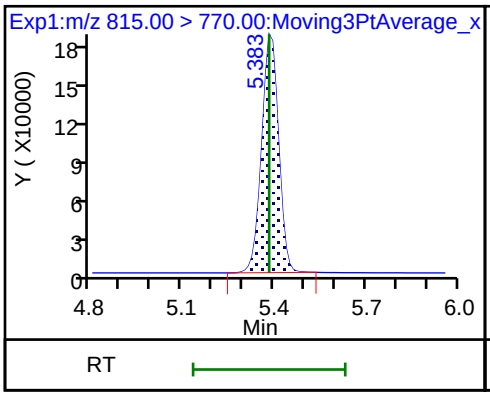
42 Perfluorotetradecanoic acid (M)



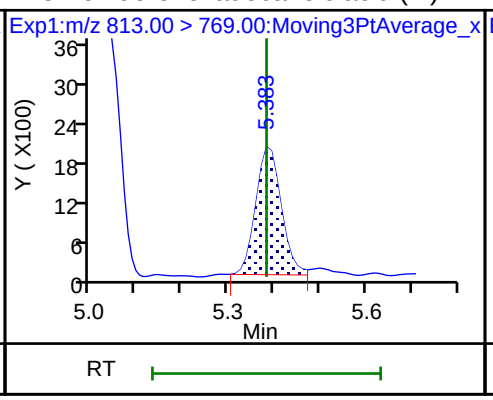
42 Perfluorotetradecanoic acid (M)



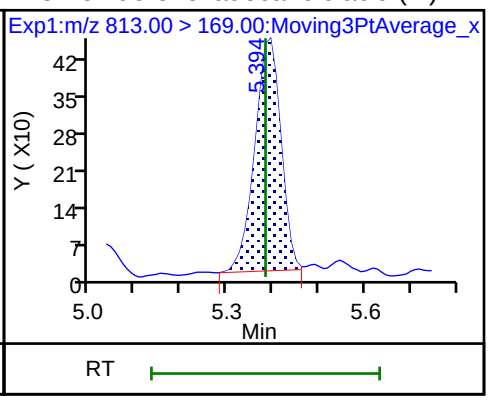
D 44 13C2 PFHxDA



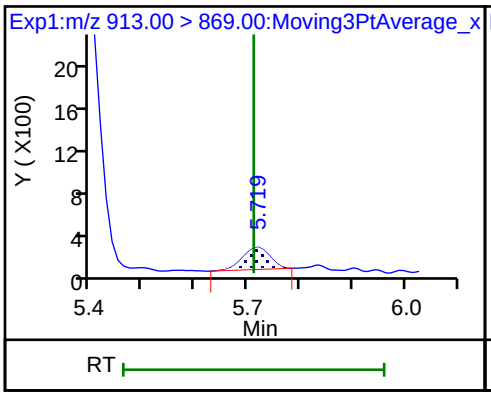
45 Perfluorohexadecanoic acid (M)



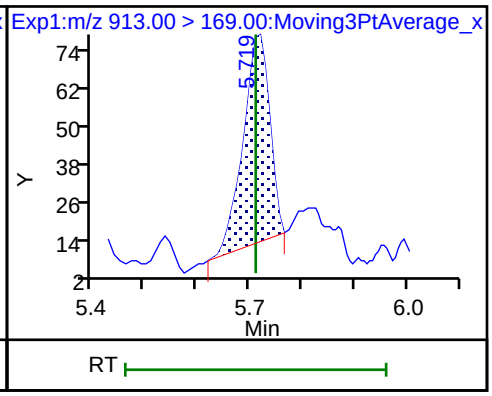
45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

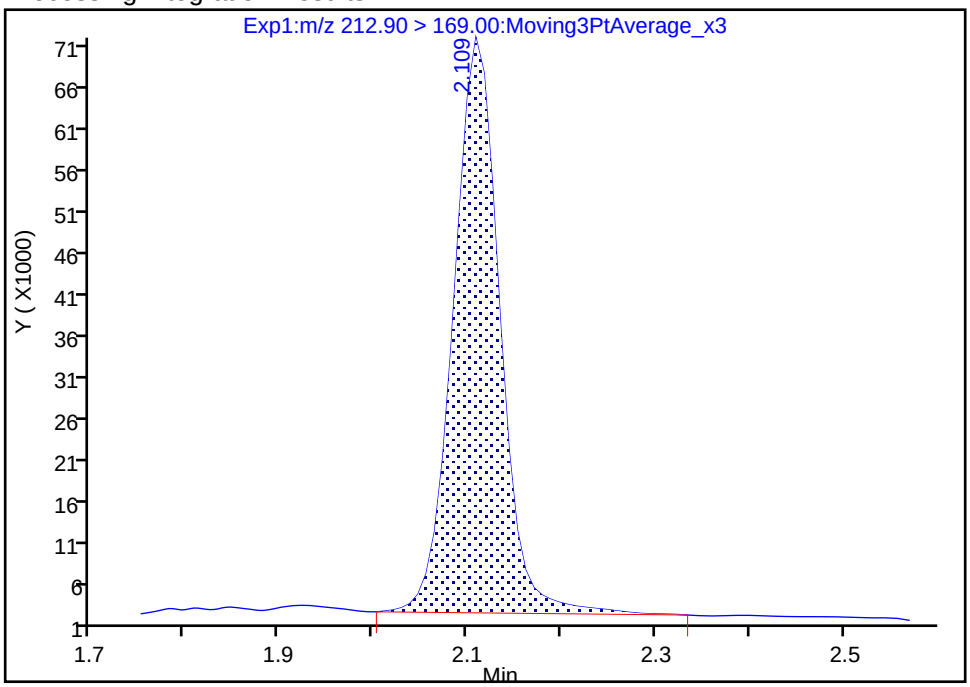
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

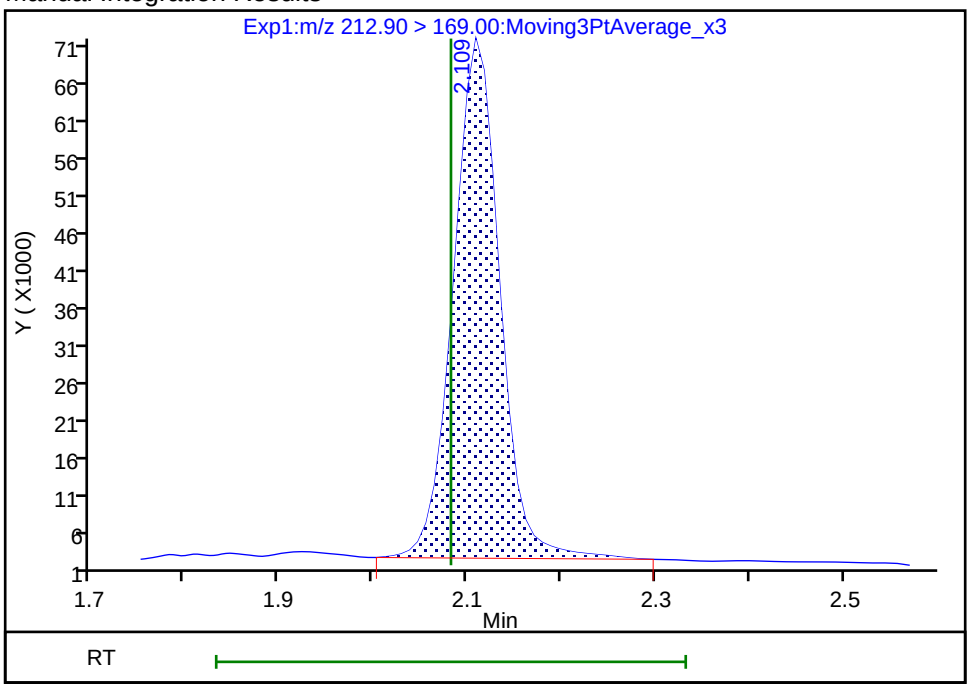
Processing Integration Results

RT: 2.11
Area: 235723
Amount: 0.218693
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 234680
Amount: 0.217726
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:18:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

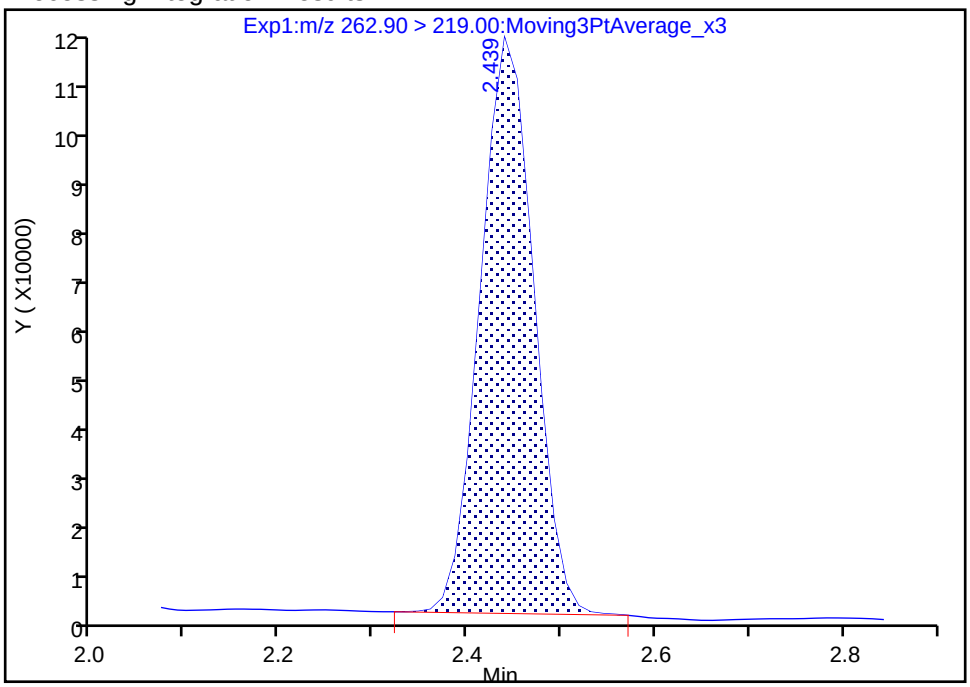
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Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

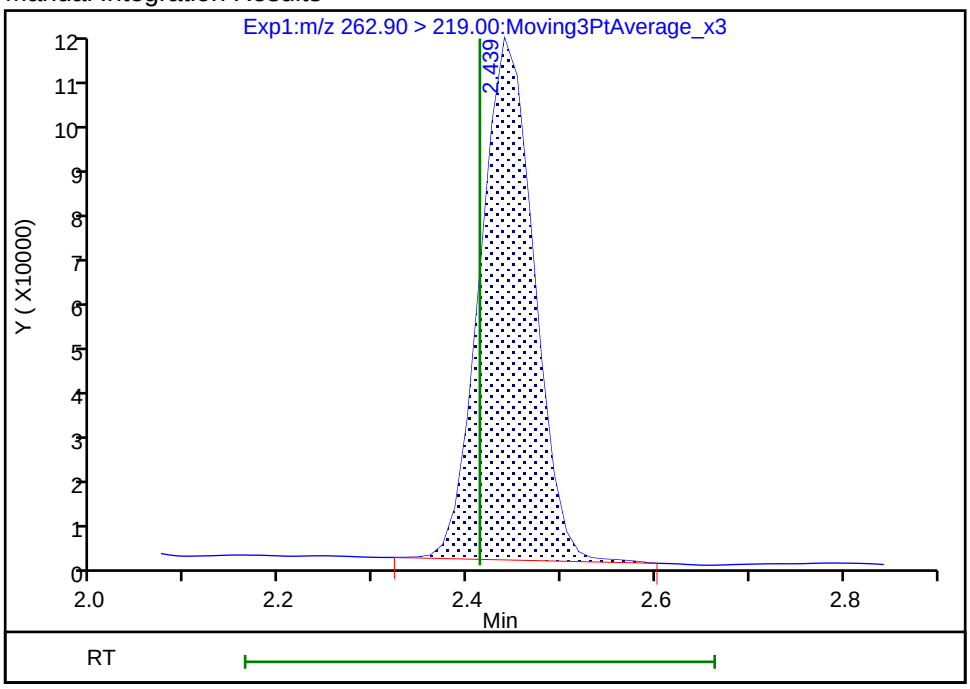
Processing Integration Results

RT: 2.44
Area: 433618
Amount: 0.437009
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 437106
Amount: 0.440524
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:18:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

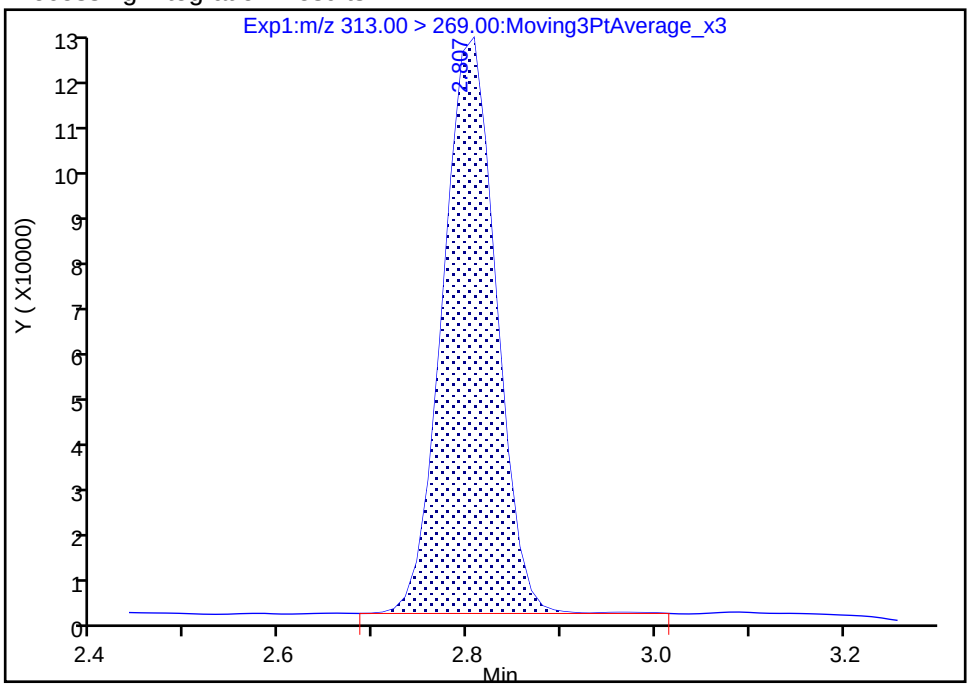
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

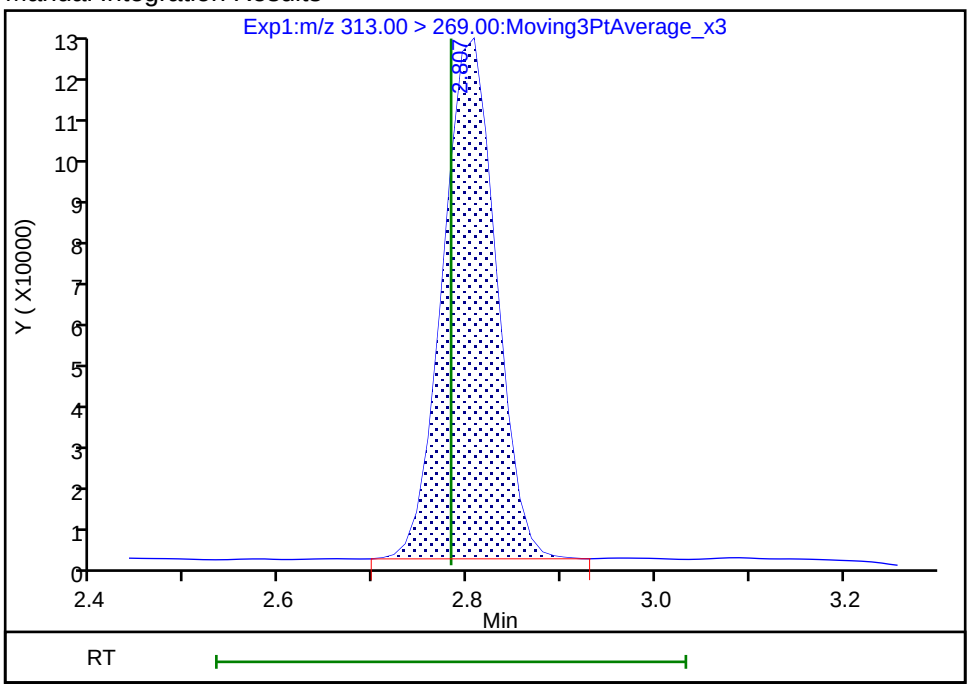
Processing Integration Results

RT: 2.81
Area: 472508
Amount: 0.446591
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 471271
Amount: 0.445422
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:19:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

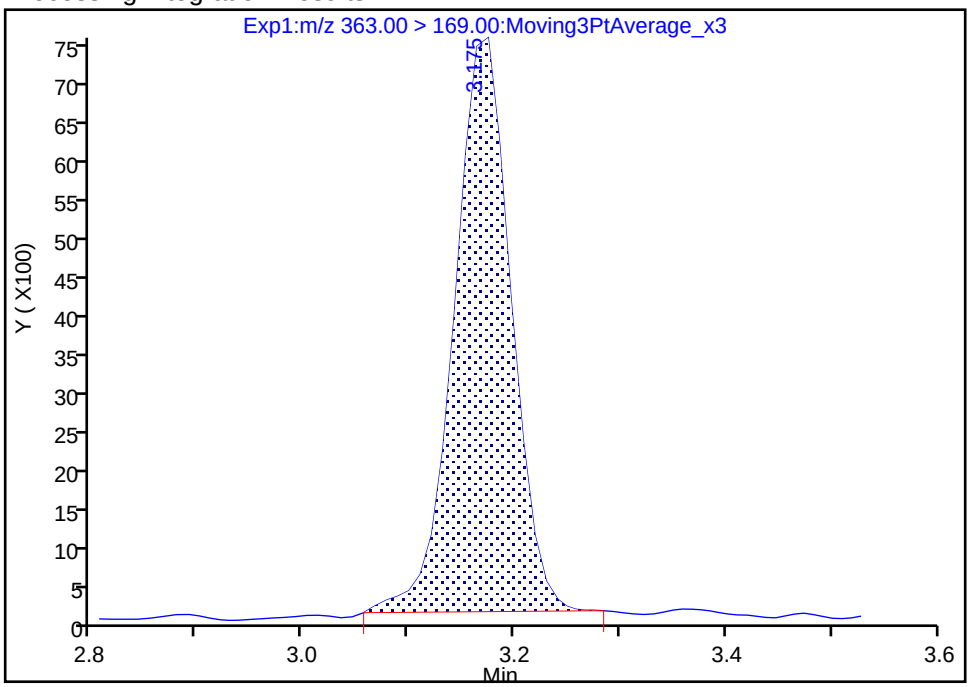
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

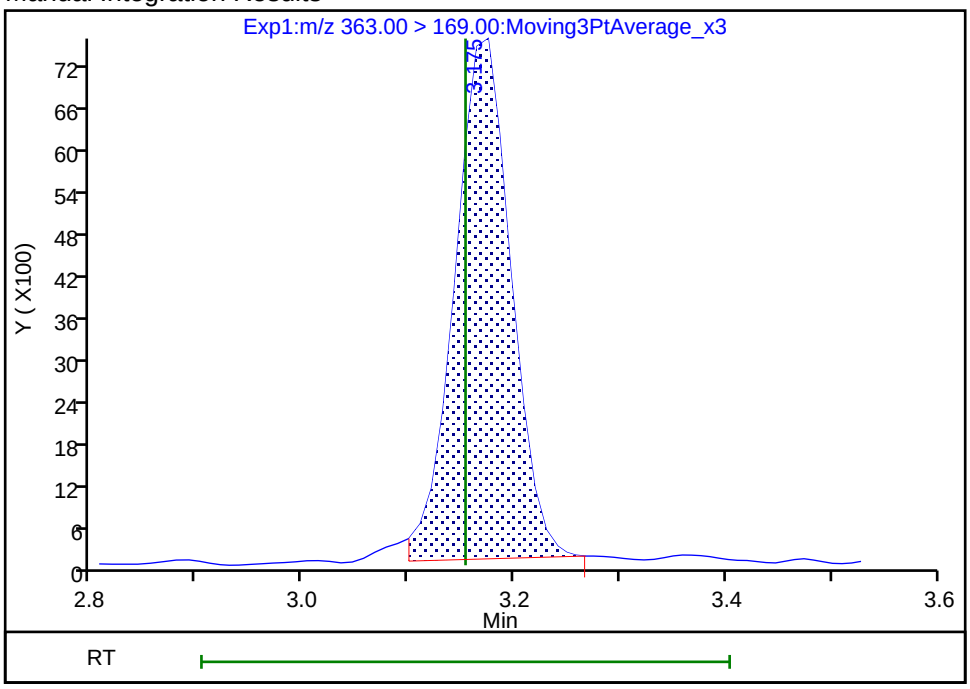
Processing Integration Results

RT: 3.18
Area: 27662
Amount: 0.096544
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 27460
Amount: 0.093540
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:21:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

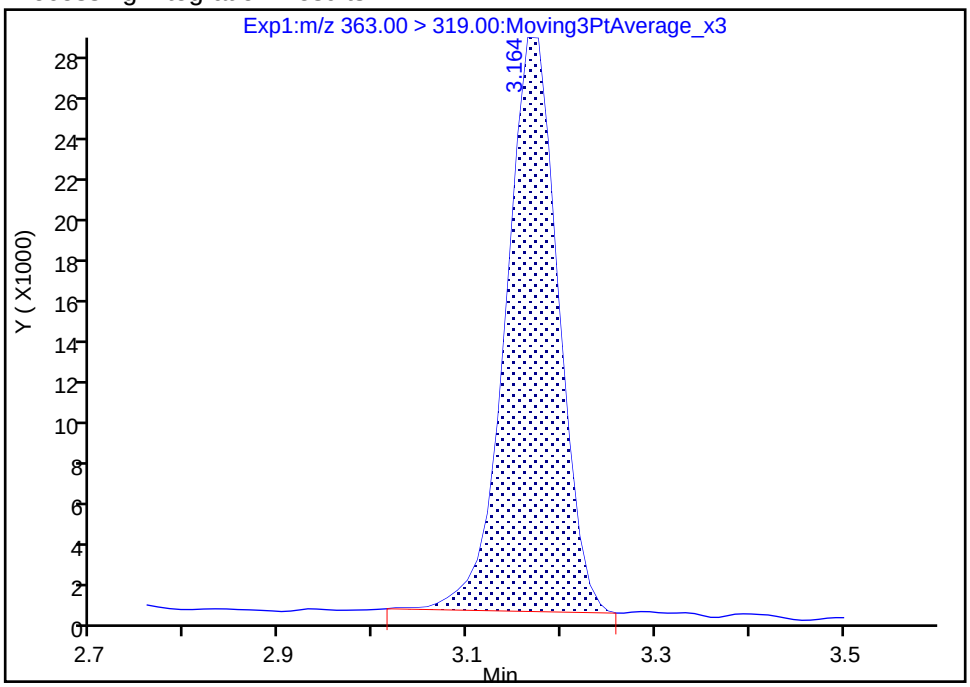
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	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

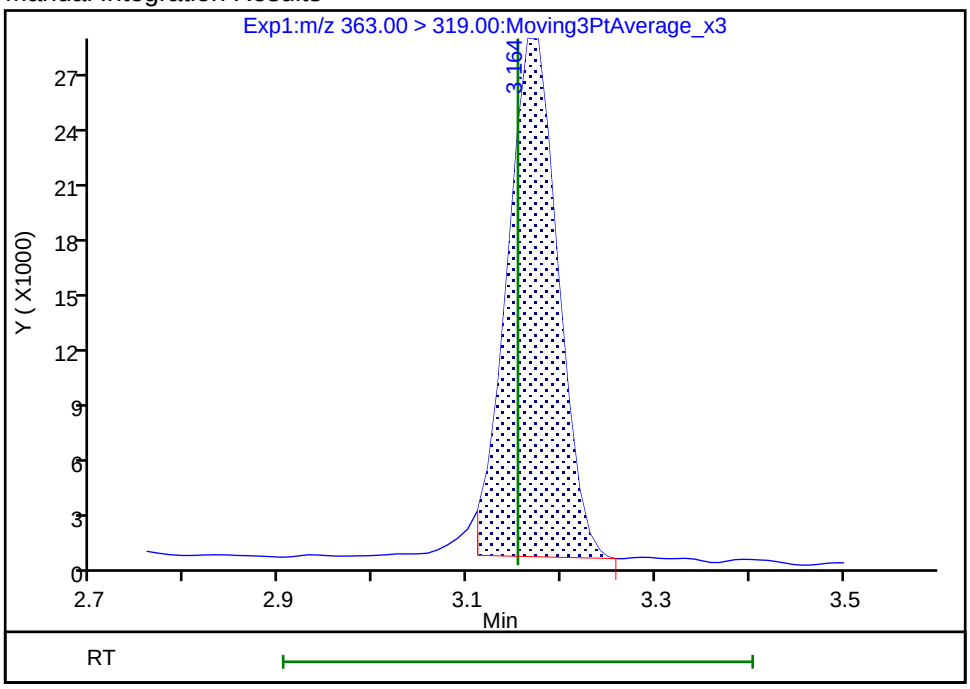
Processing Integration Results

RT: 3.16
Area: 107994
Amount: 0.096544
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 104634
Amount: 0.093540
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:17:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

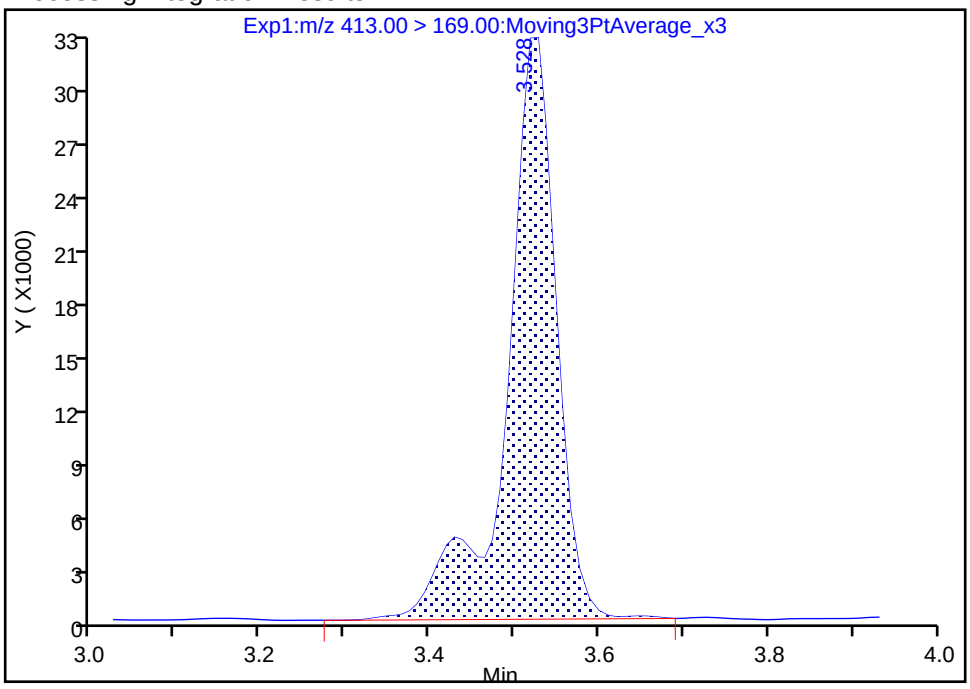
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Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

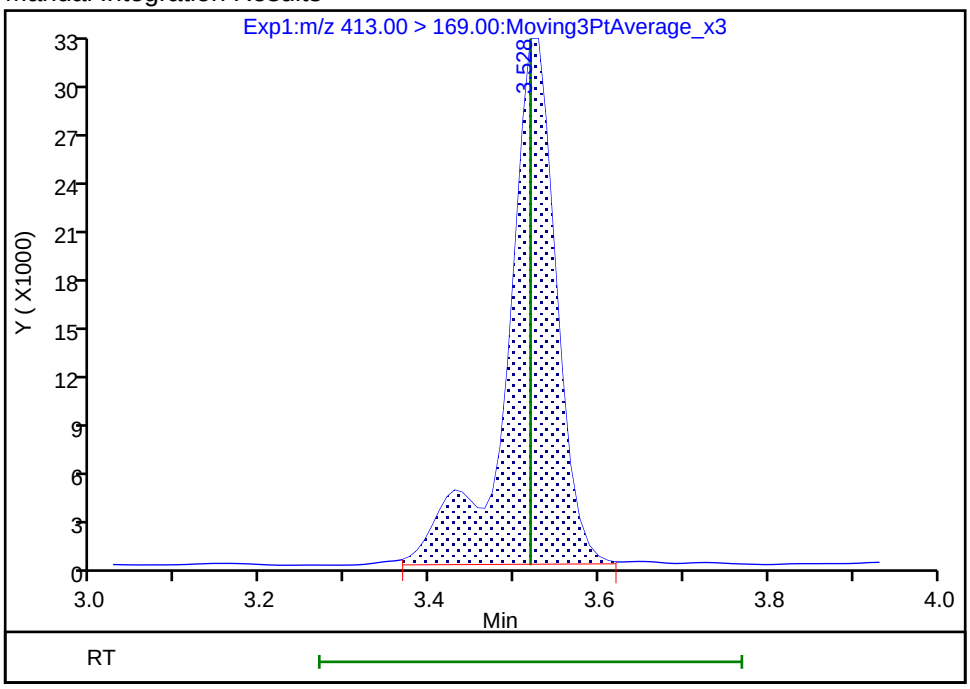
Processing Integration Results

RT: 3.53
Area: 132888
Amount: 0.260851
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 131992
Amount: 0.260851
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:17:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

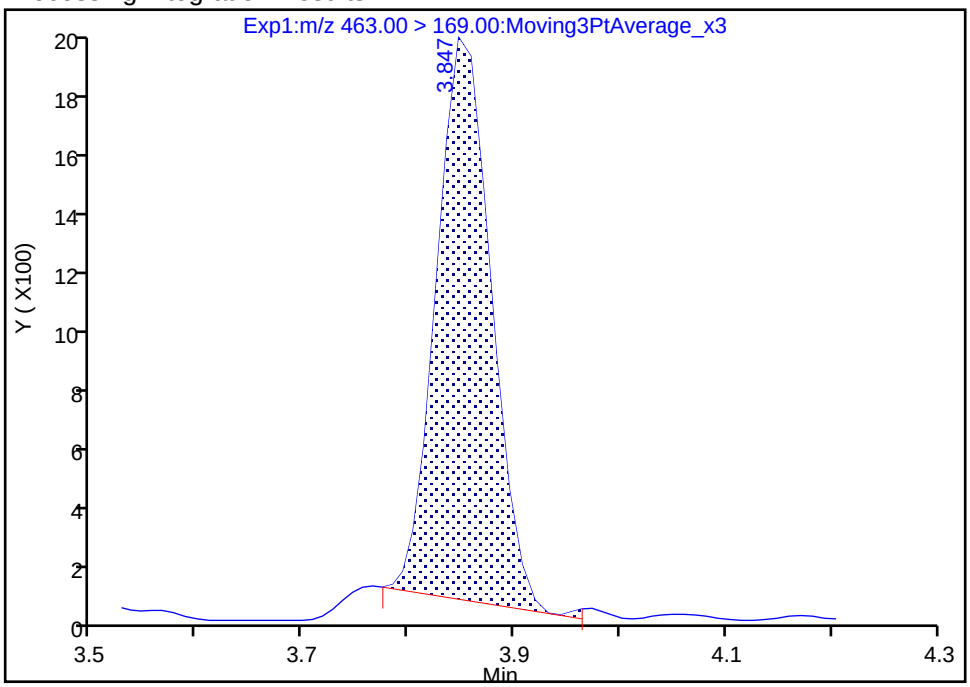
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

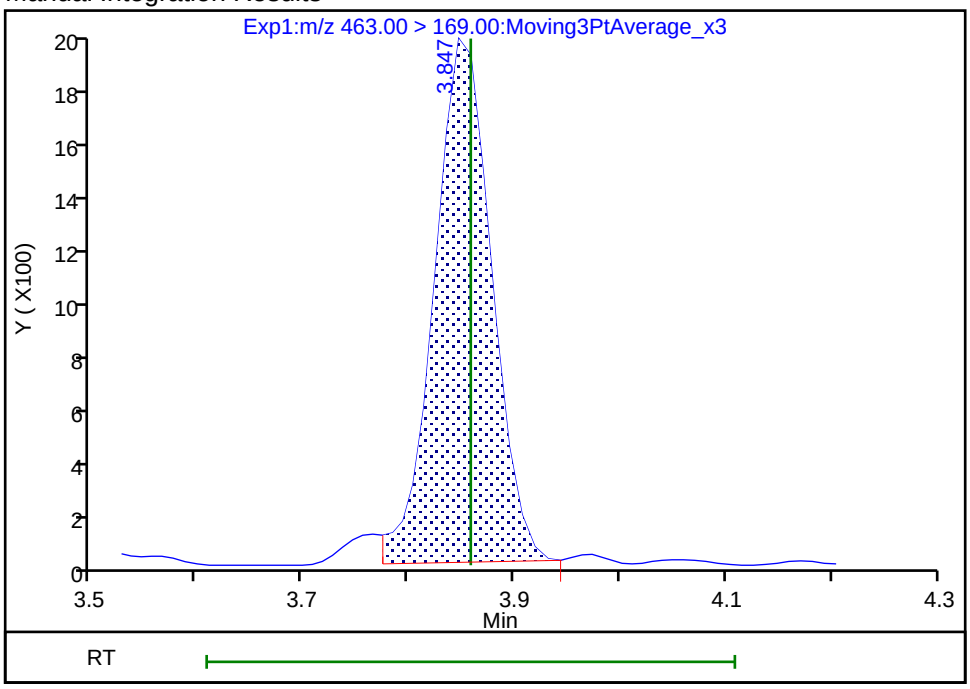
Processing Integration Results

RT: 3.85
Area: 6726
Amount: 0.050293
Amount Units: ng/ml



Manual Integration Results

RT: 3.85
Area: 7226
Amount: 0.050266
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:26:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

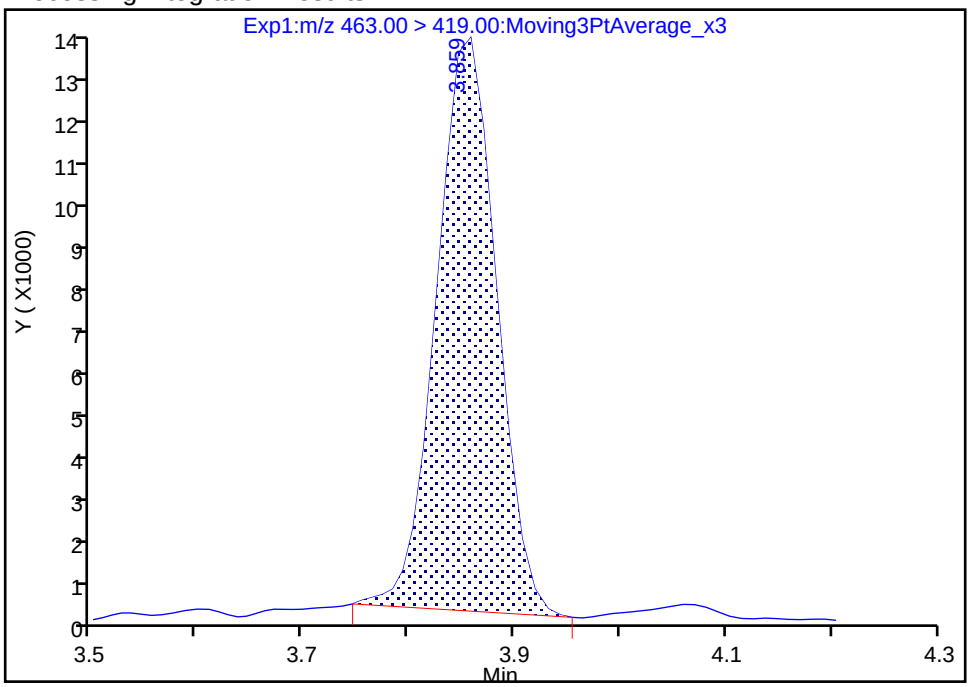
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

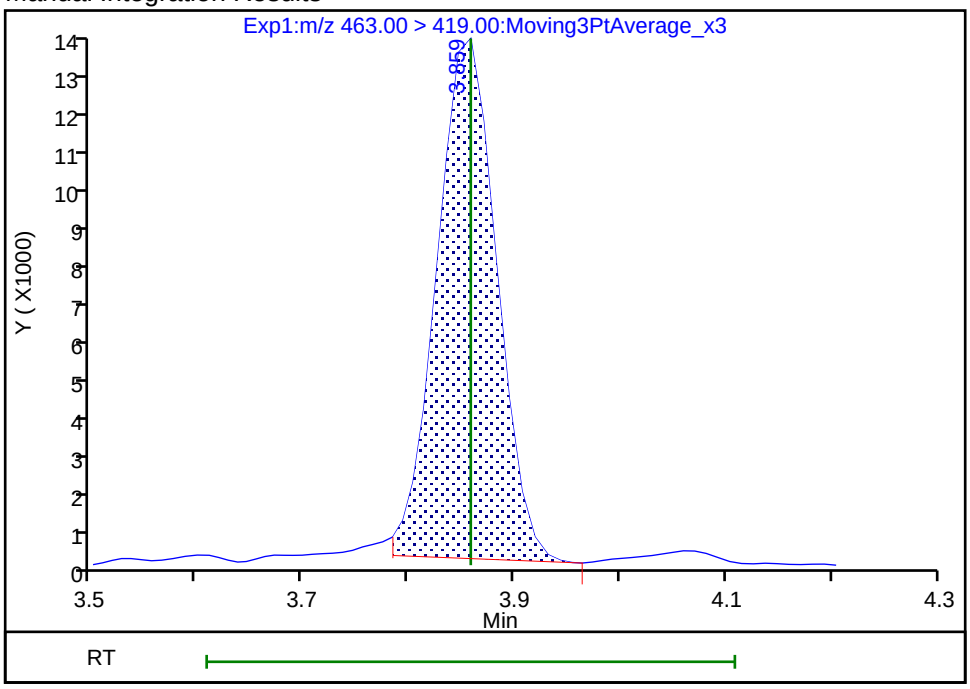
Processing Integration Results

RT: 3.86
Area: 49856
Amount: 0.050293
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 49829
Amount: 0.050266
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:18:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

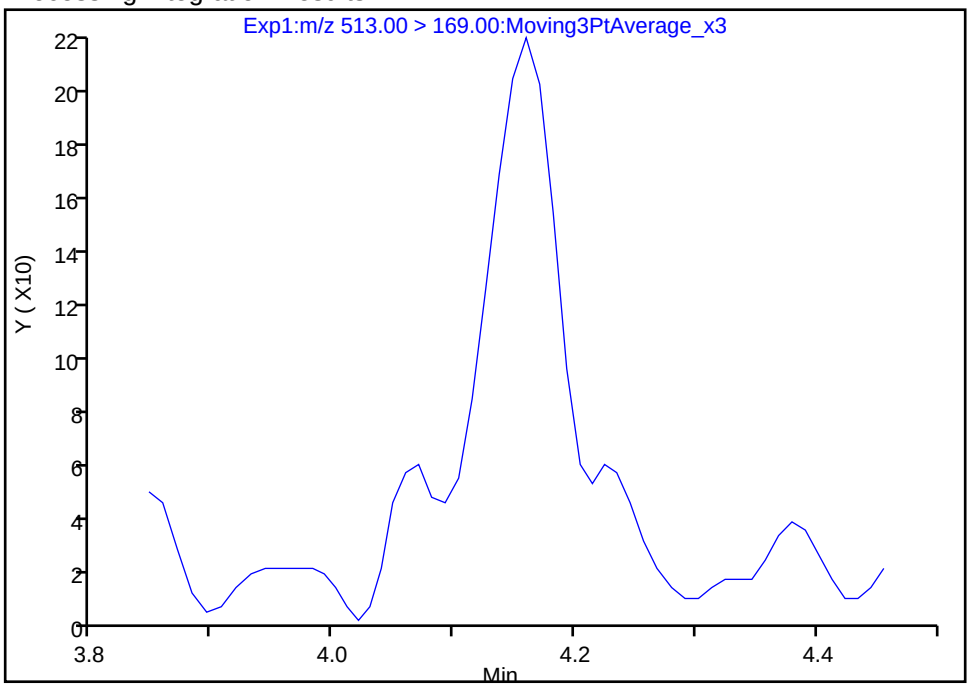
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d		
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6
Client ID:	MW-86-1SH		
Operator ID:	lc812tech	ALS Bottle#:	7 Worklist Smp#: 10
Injection Vol:	20.0 ul	Dil. Factor:	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

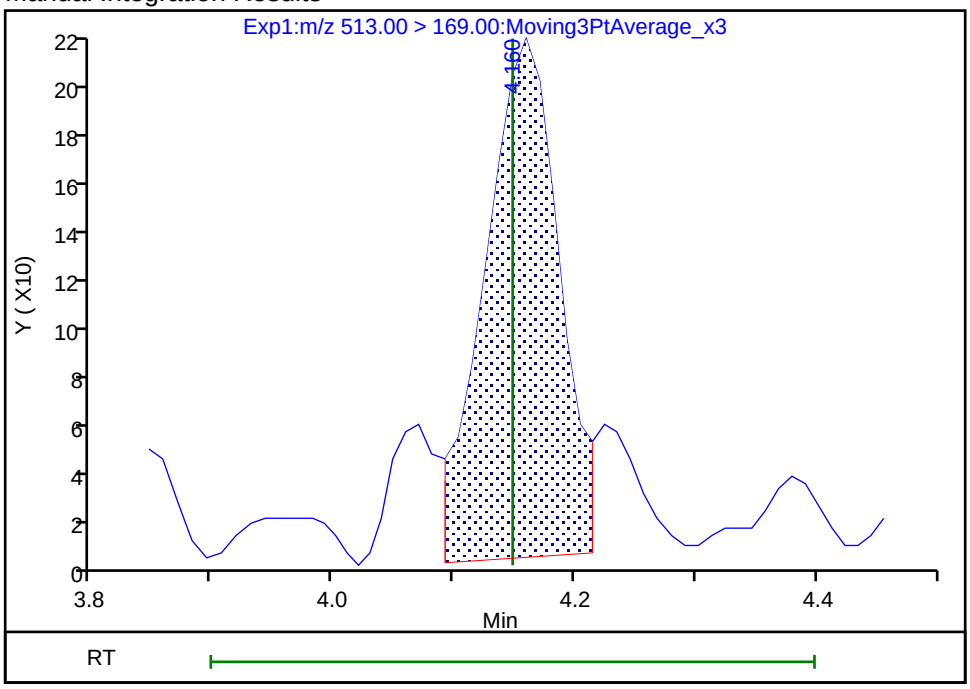
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 893
Amount: 0.007664
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:26:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

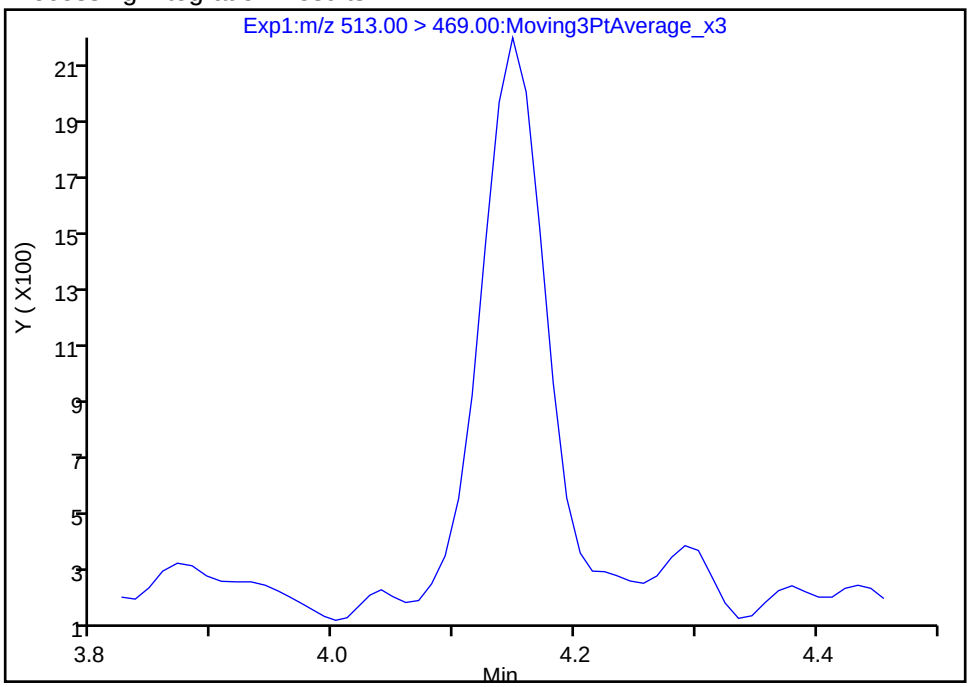
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

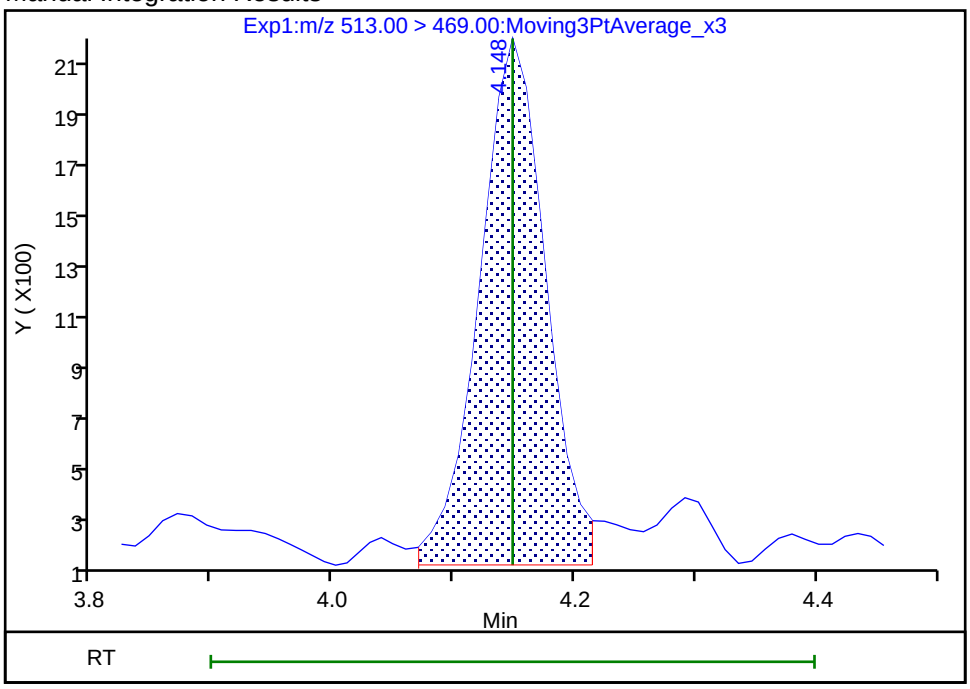
Processing Integration Results

Not Detected
Expected RT: 4.15



Manual Integration Results

RT: 4.15
Area: 7832
Amount: 0.007664
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:18:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

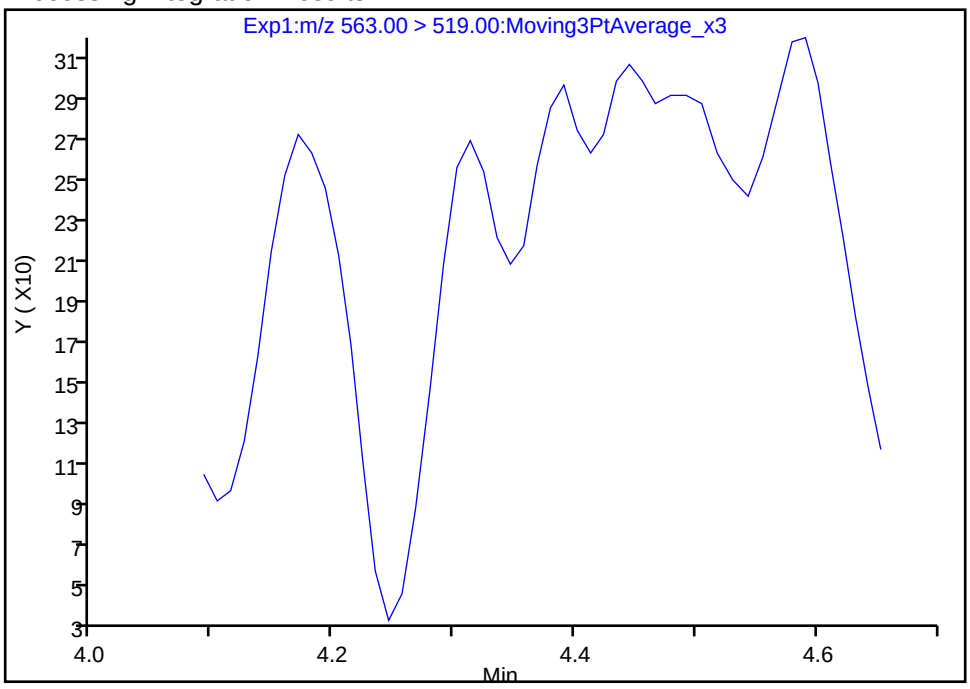
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

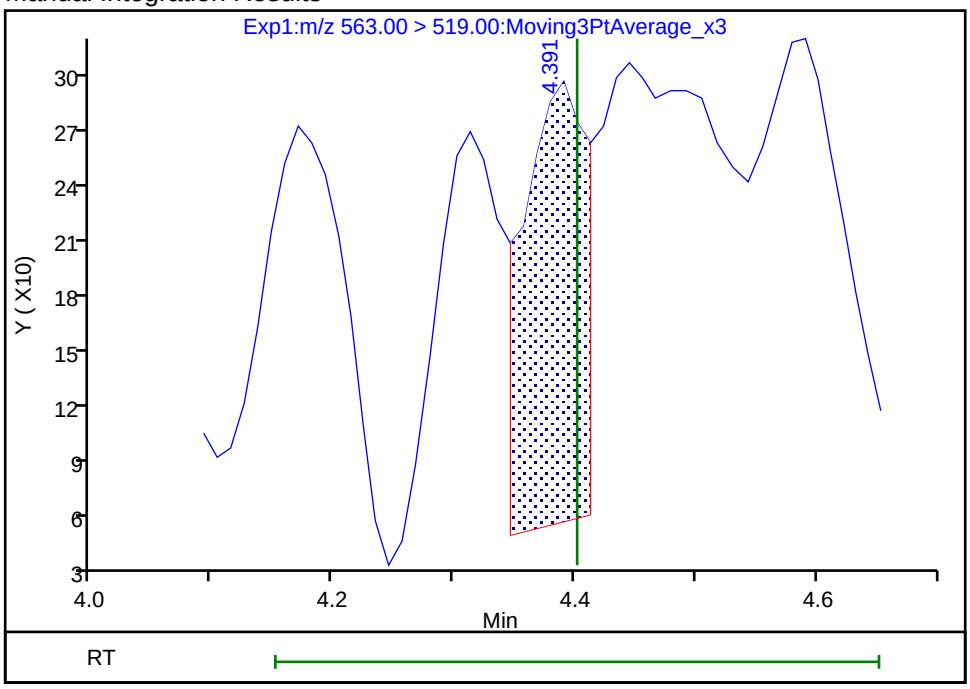
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 810
Amount: 0.001167
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:27:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

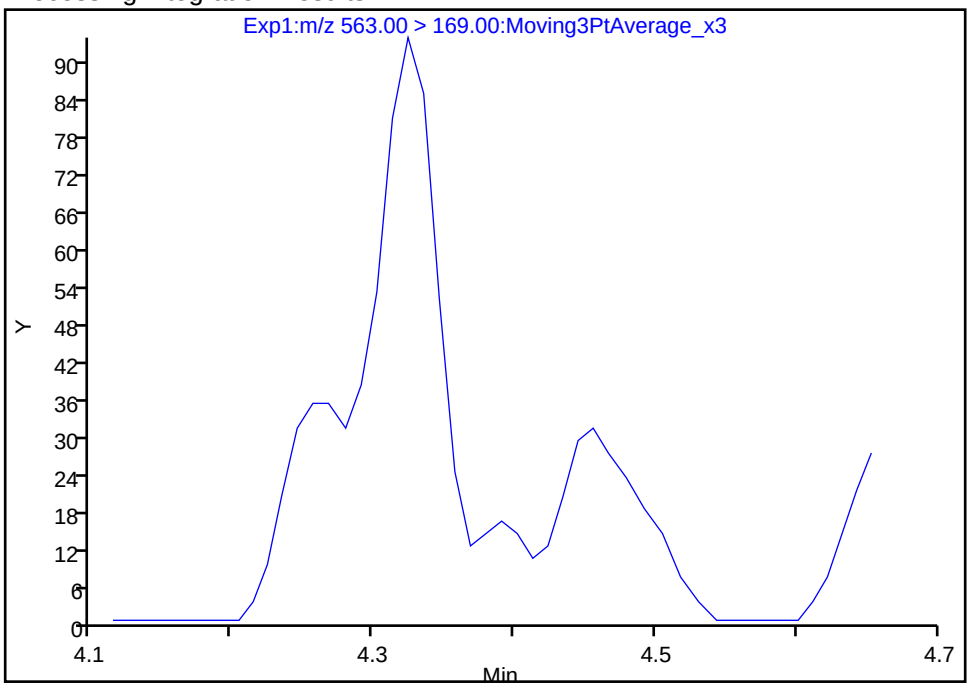
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

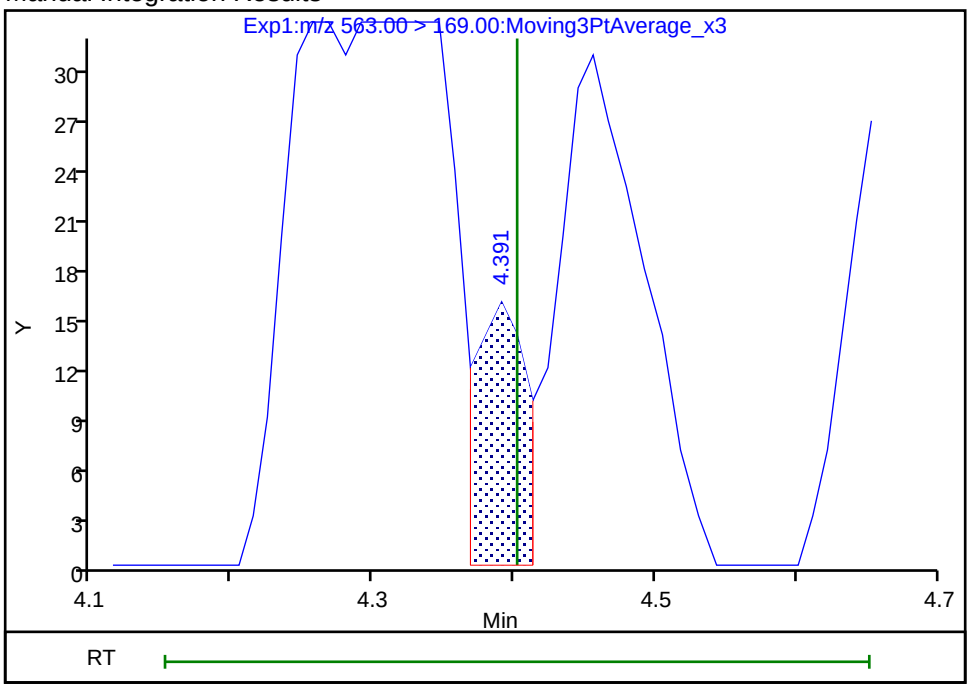
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 36
Amount: 0.001167
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:27:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

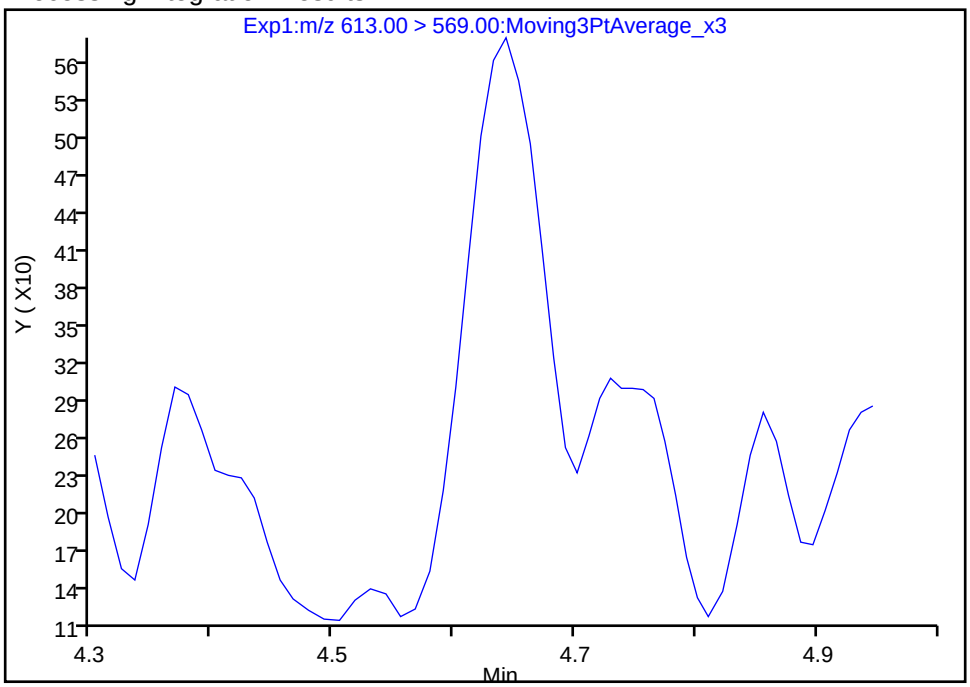
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	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

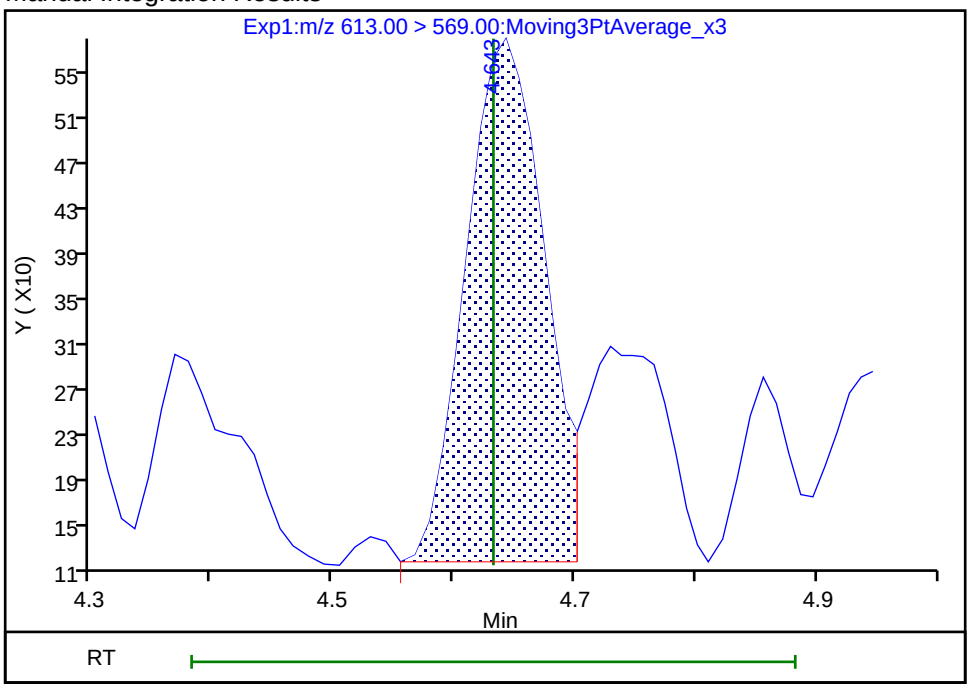
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 2058
Amount: 0.002834
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:28:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

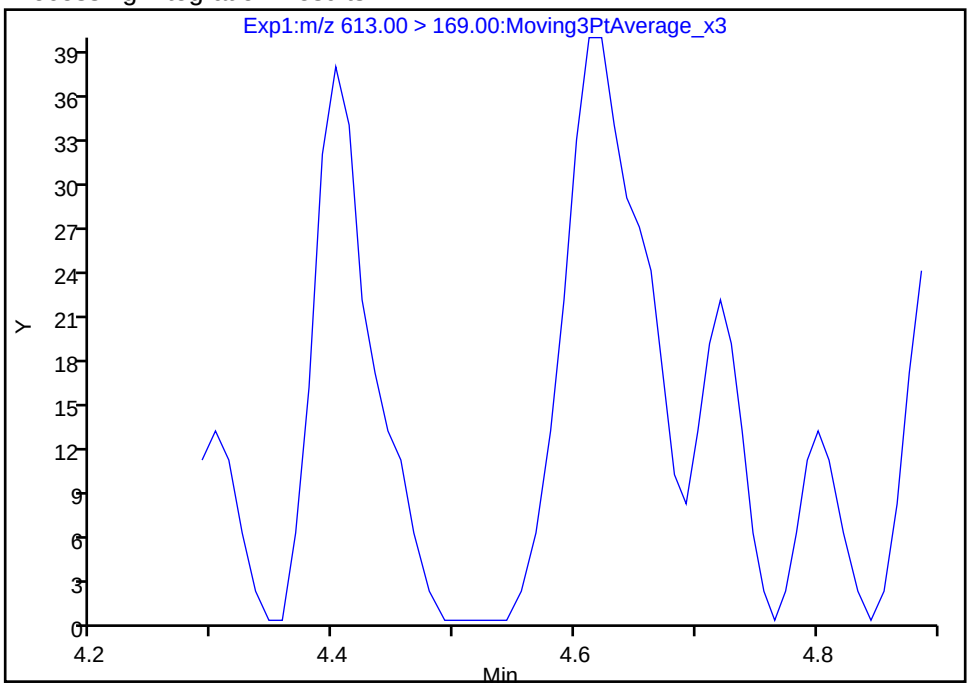
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

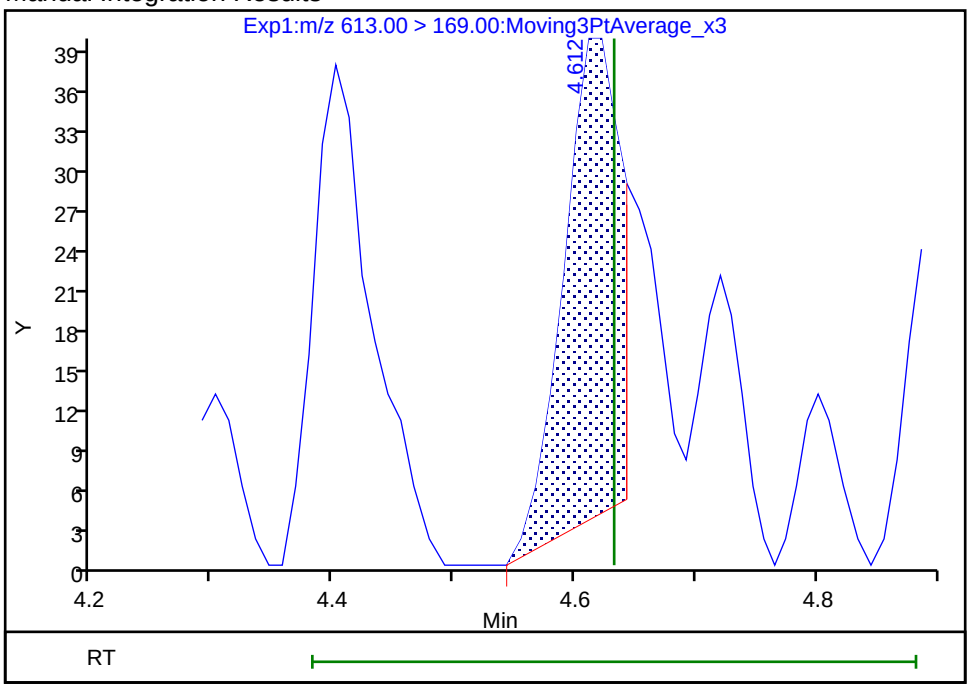
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.61
Area: 114
Amount: 0.002834
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:28:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

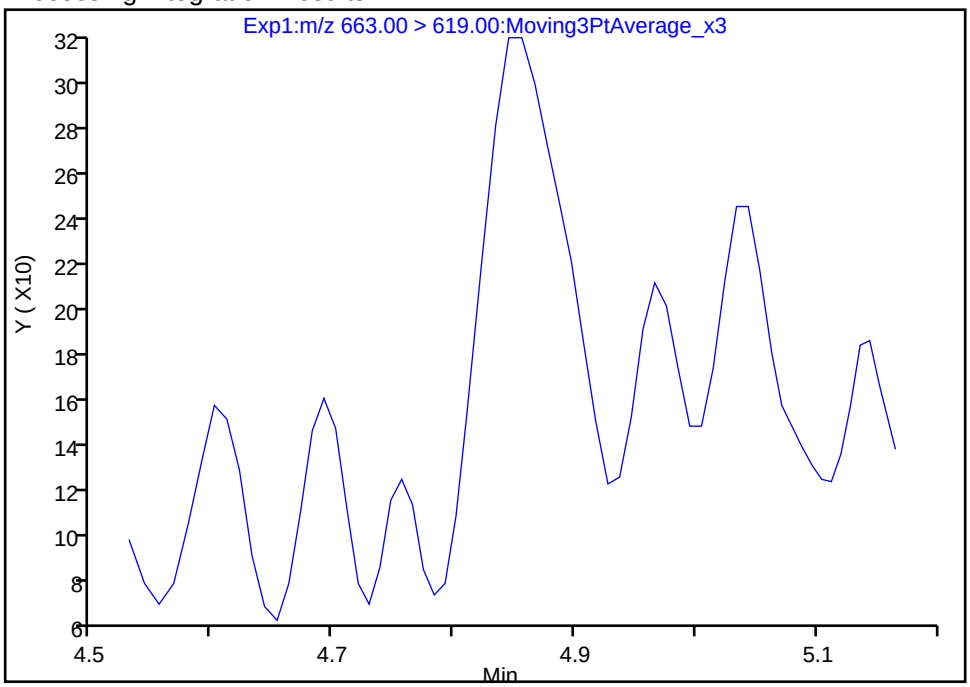
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d		
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6
Client ID:	MW-86-1SH		
Operator ID:	lc812tech	ALS Bottle#:	7 Worklist Smp#: 10
Injection Vol:	20.0 ul	Dil. Factor:	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

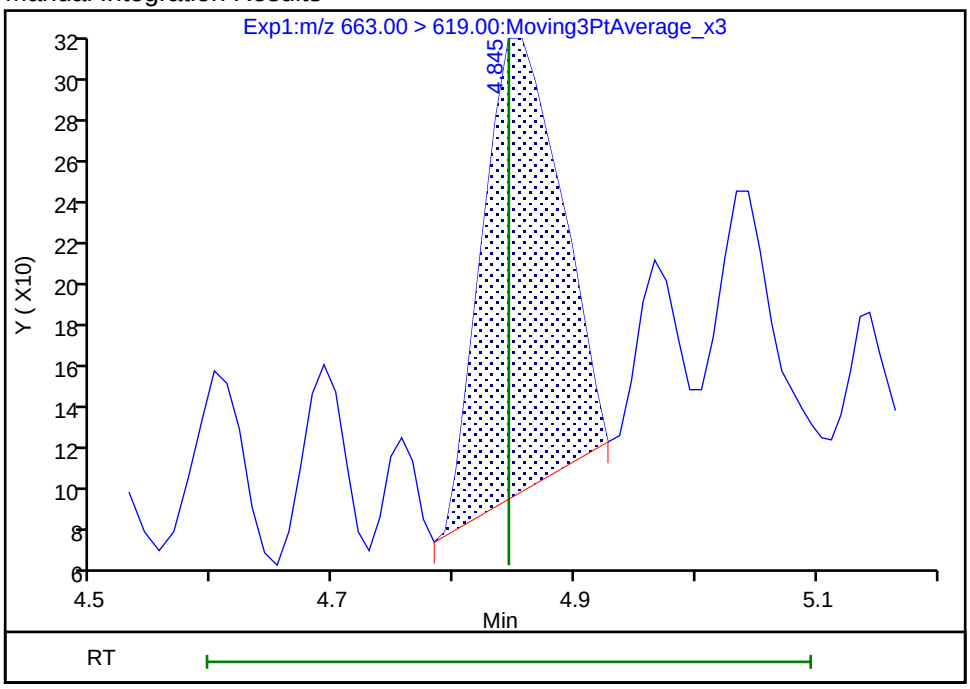
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 989
Amount: 0.001580
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:28:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

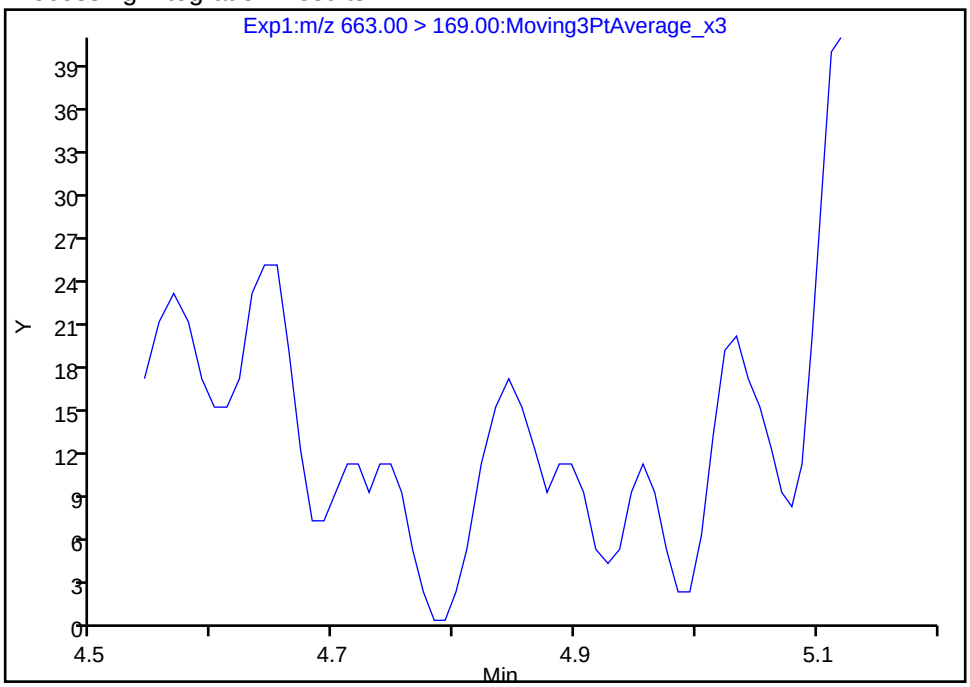
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

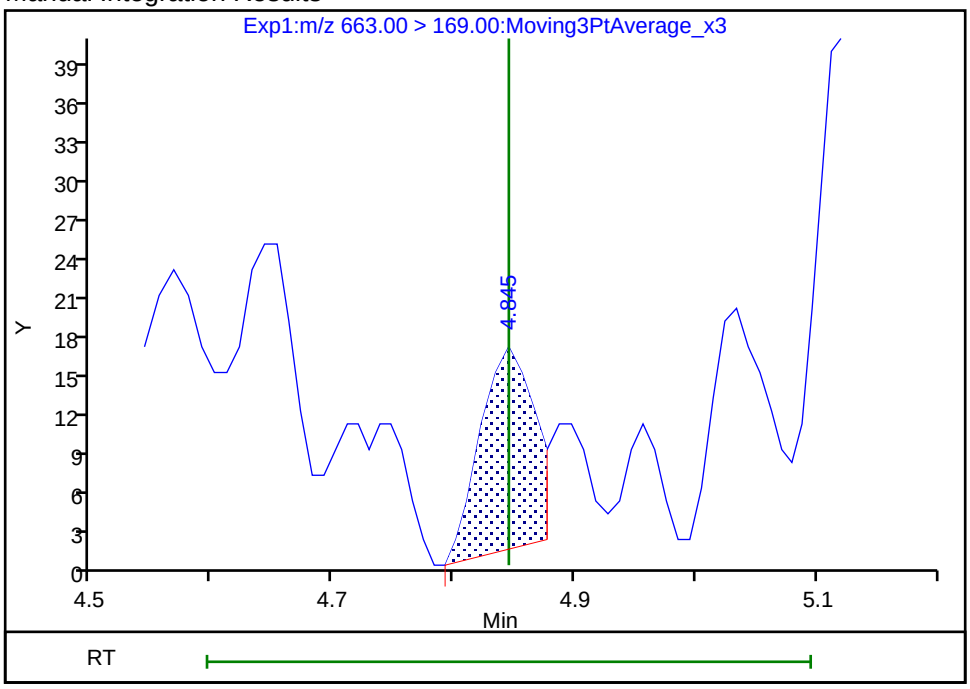
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 48
Amount: 0.001580
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:29:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

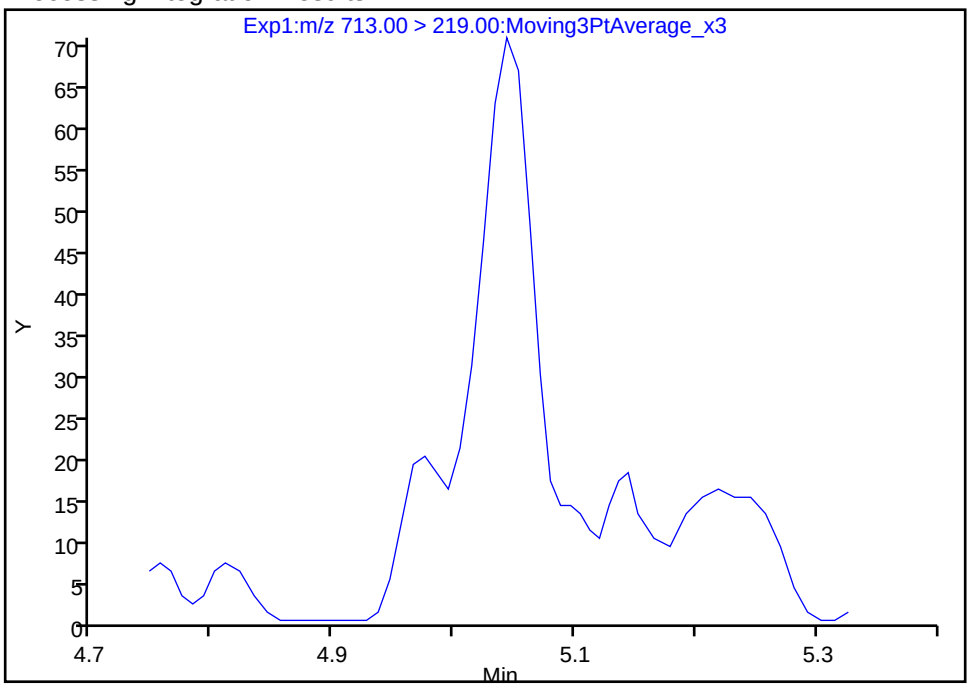
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	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

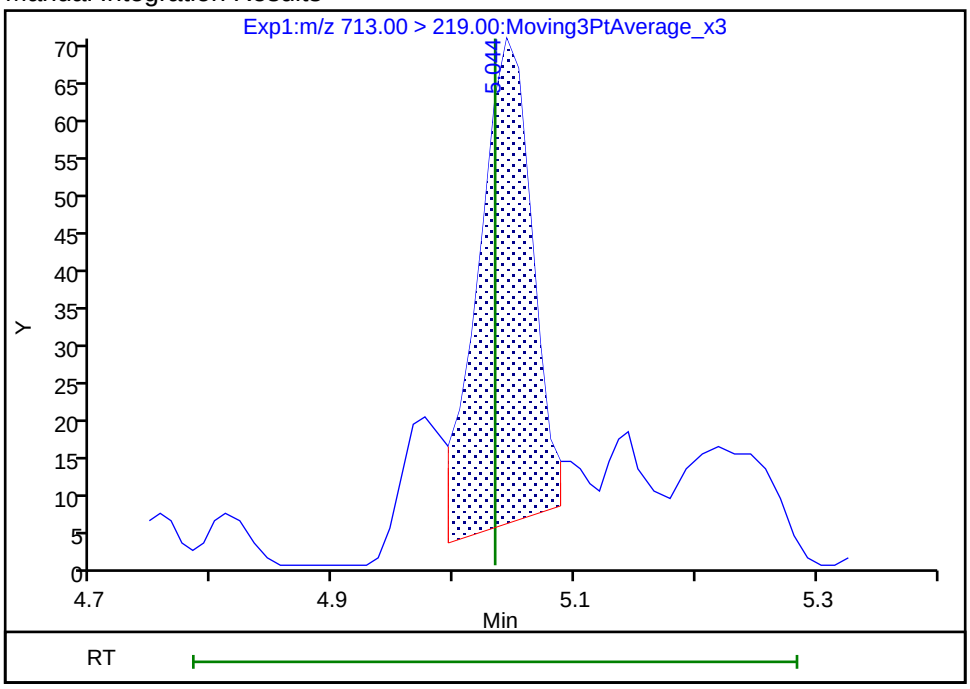
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 200
Amount: 0.004530
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:29:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

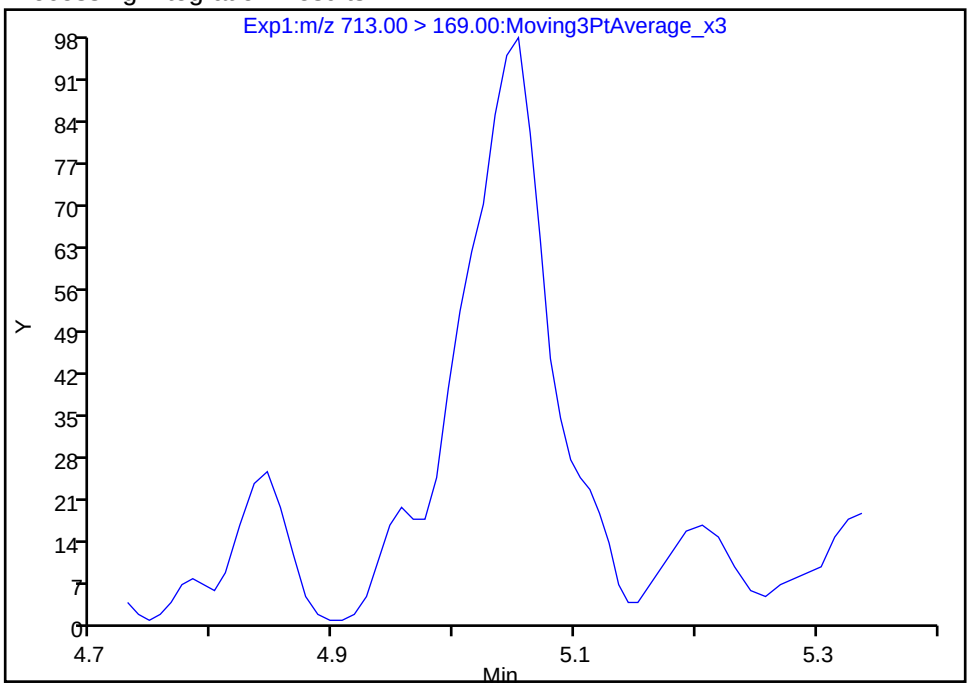
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	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

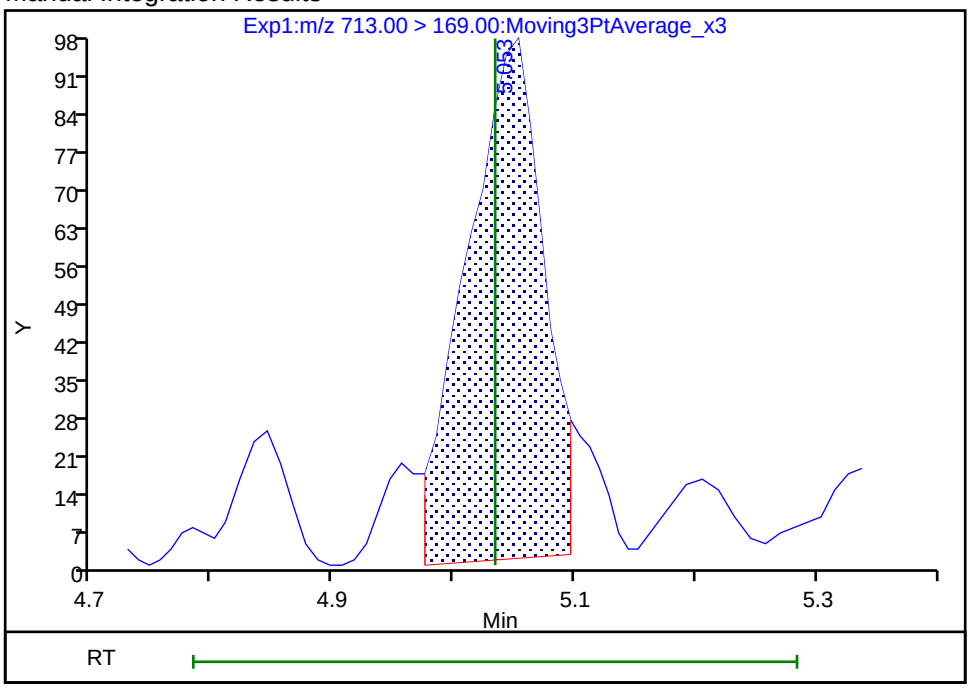
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.05
Area: 425
Amount: 0.004530
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:29:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

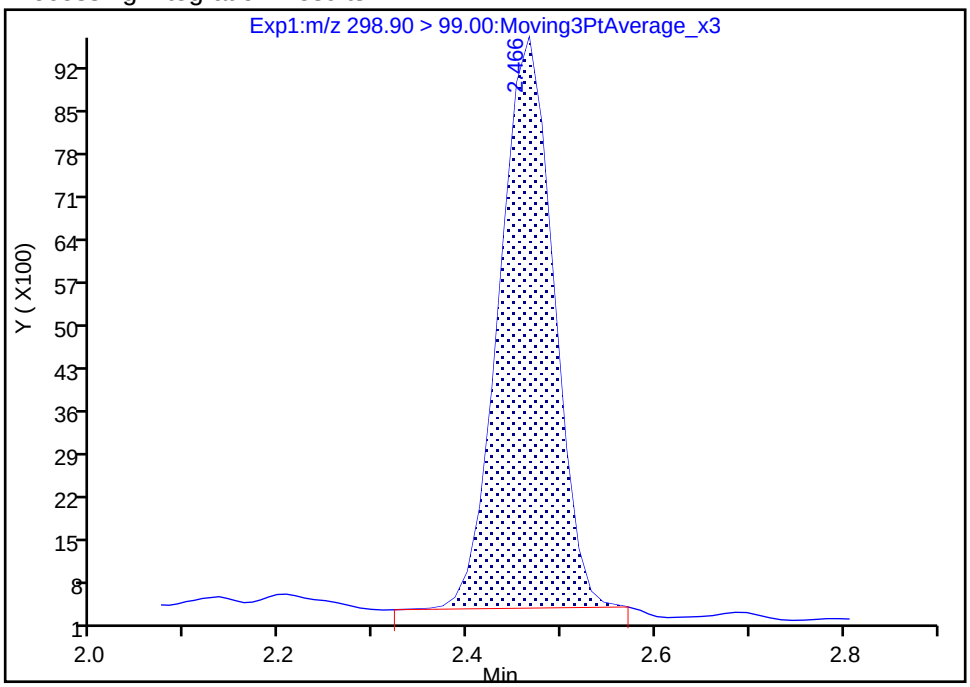
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

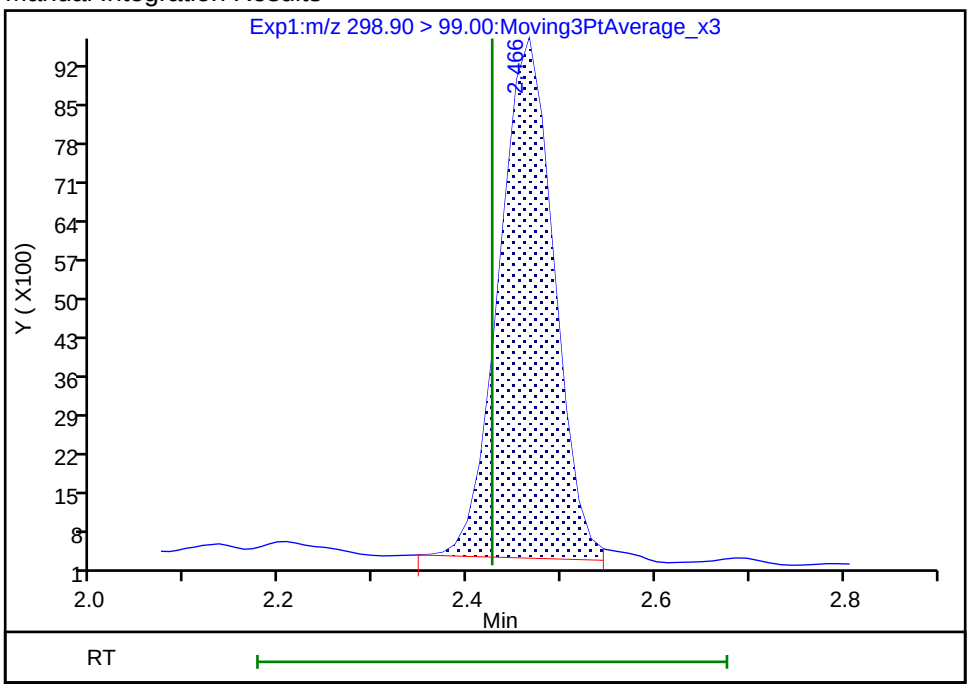
Processing Integration Results

RT: 2.47
Area: 37207
Amount: 0.068778
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 37831
Amount: 0.068444
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:18:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

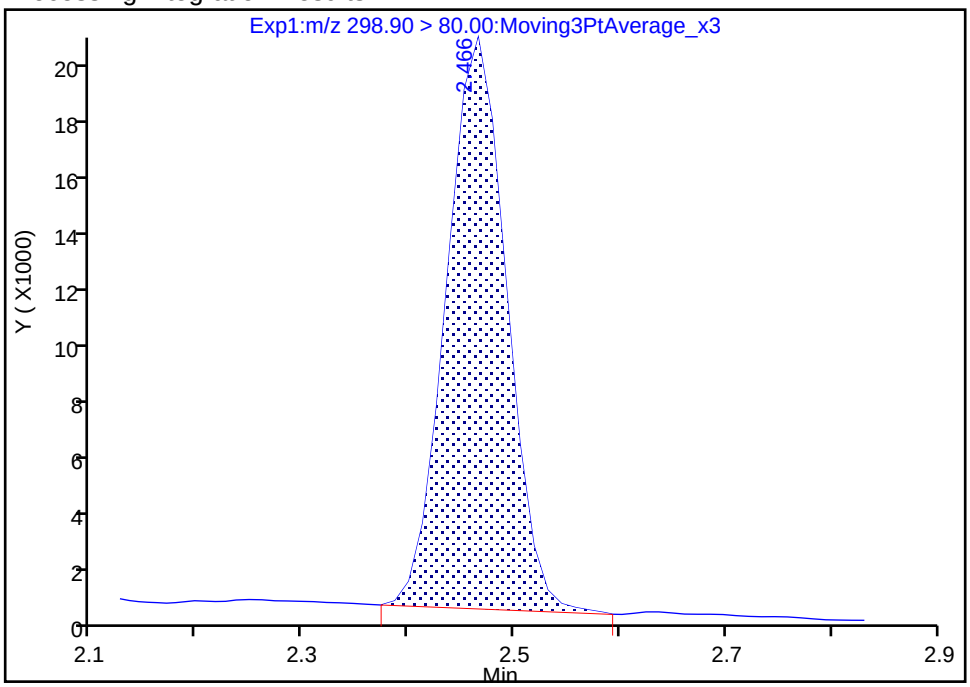
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Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

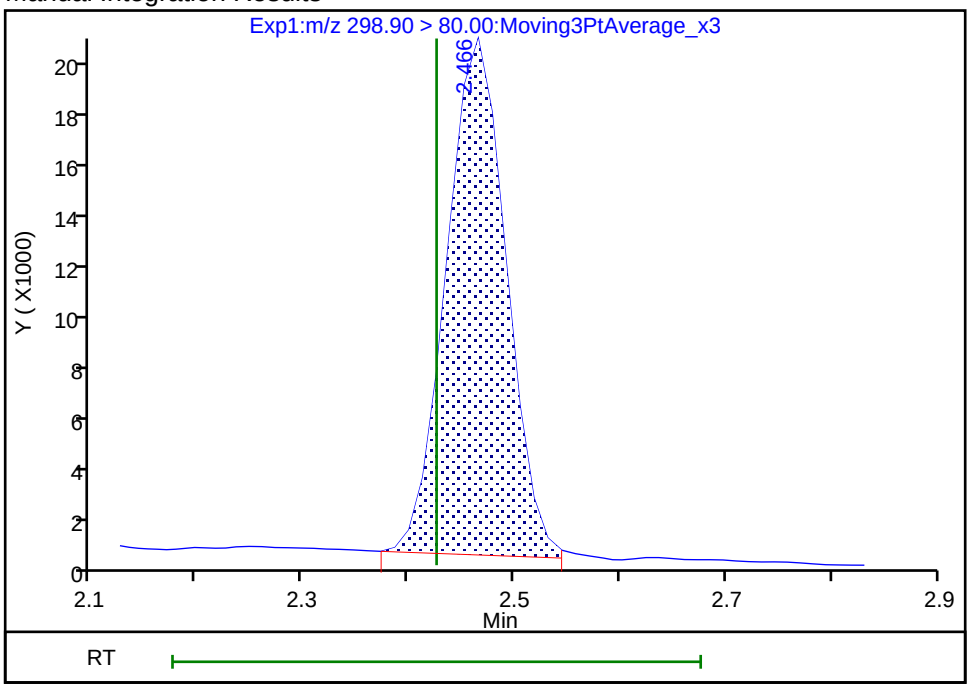
Processing Integration Results

RT: 2.47
Area: 78716
Amount: 0.068778
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 78334
Amount: 0.068444
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:18:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

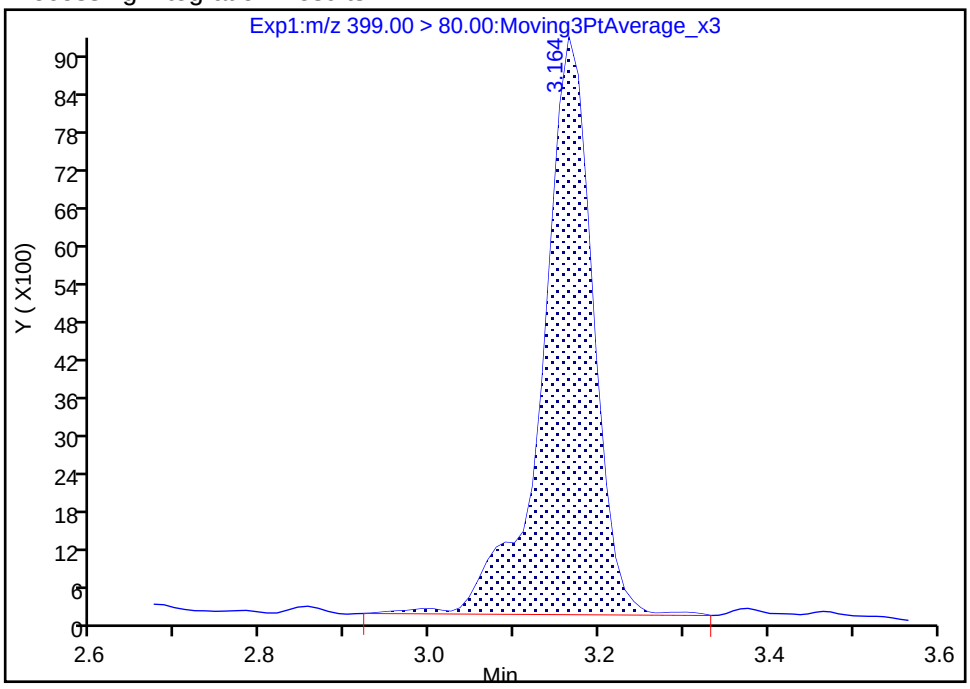
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Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

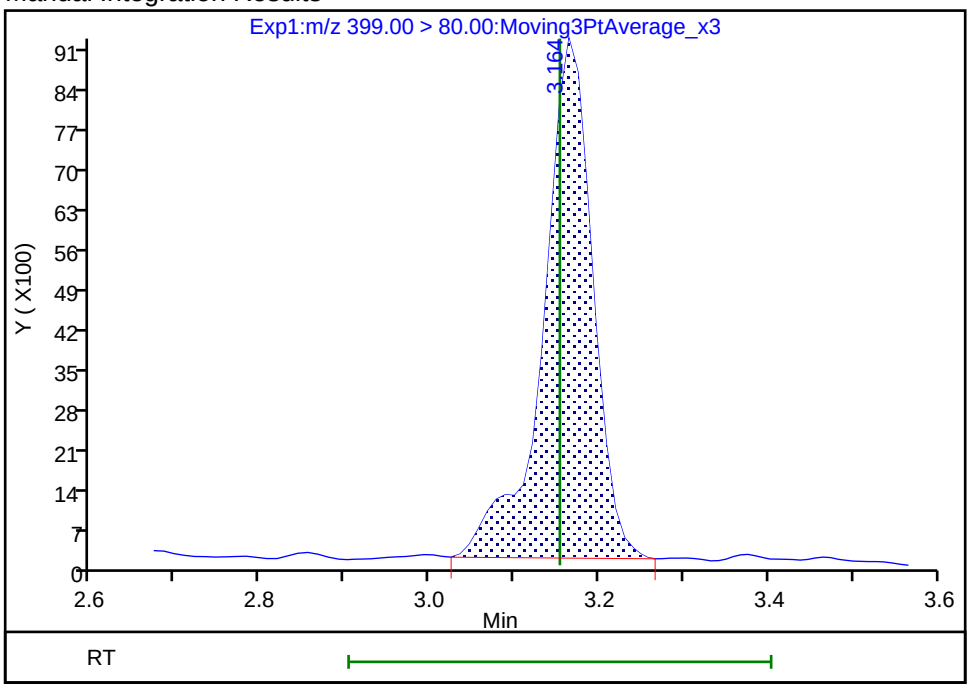
Processing Integration Results

RT: 3.16
Area: 37896
Amount: 0.038914
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 36961
Amount: 0.037954
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:20:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

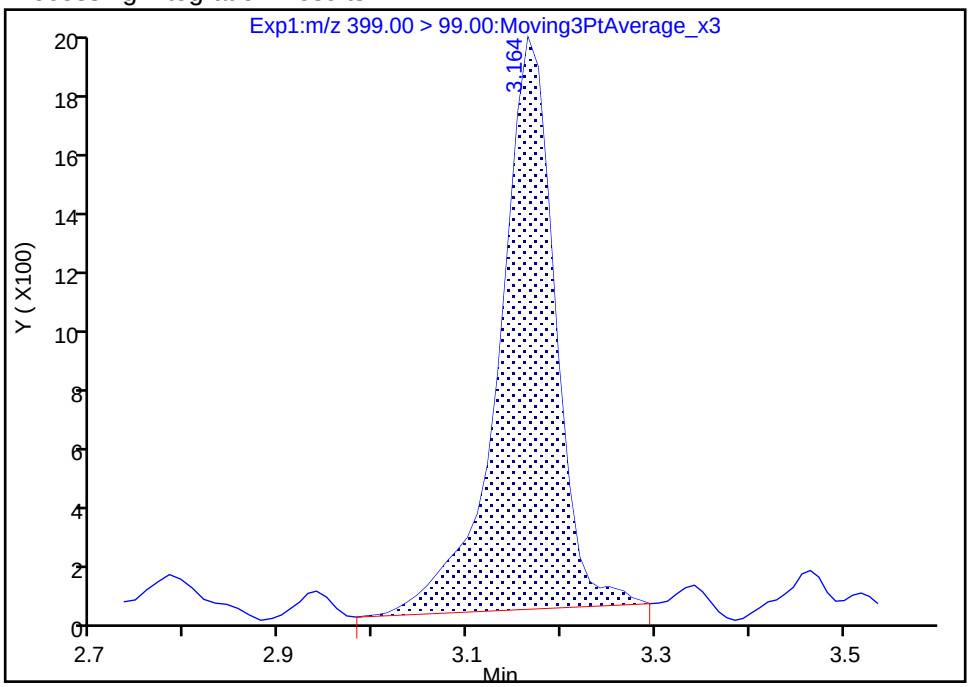
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

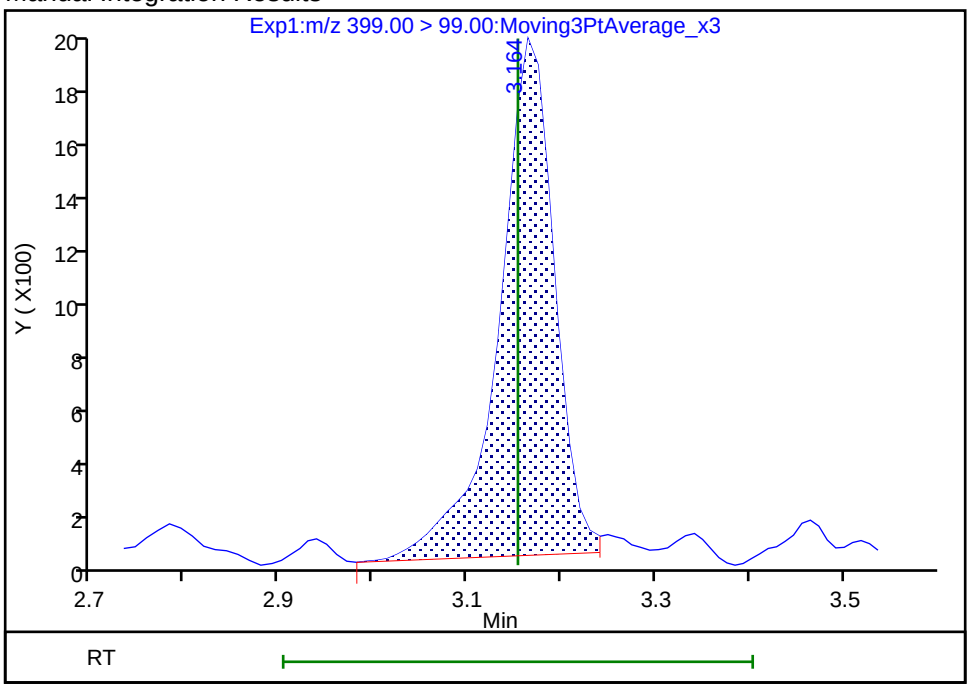
Processing Integration Results

RT: 3.16
Area: 7606
Amount: 0.038914
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 7497
Amount: 0.037954
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:20:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

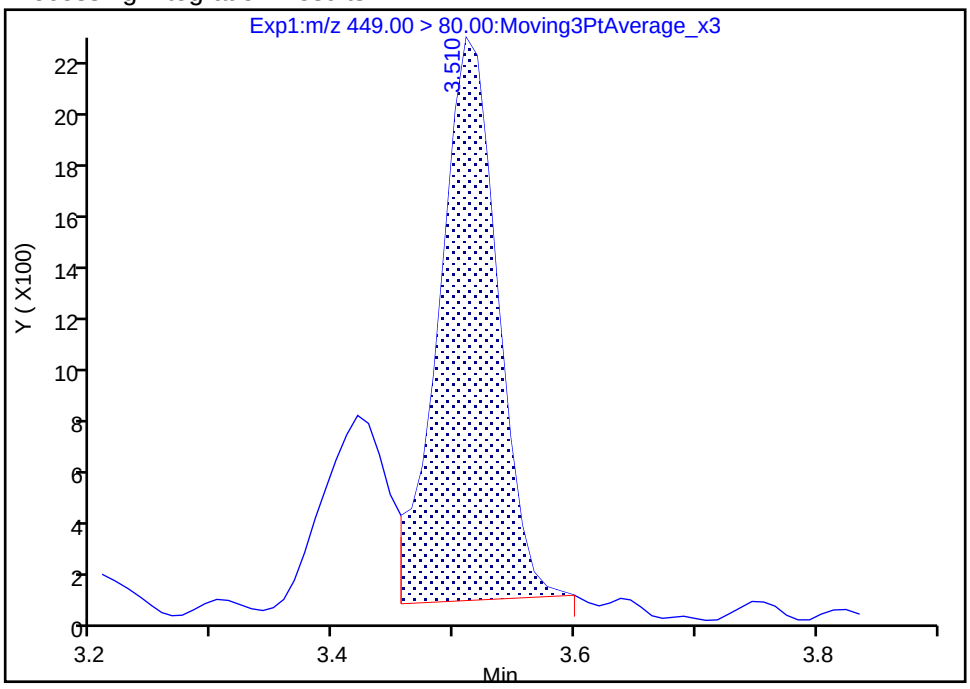
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

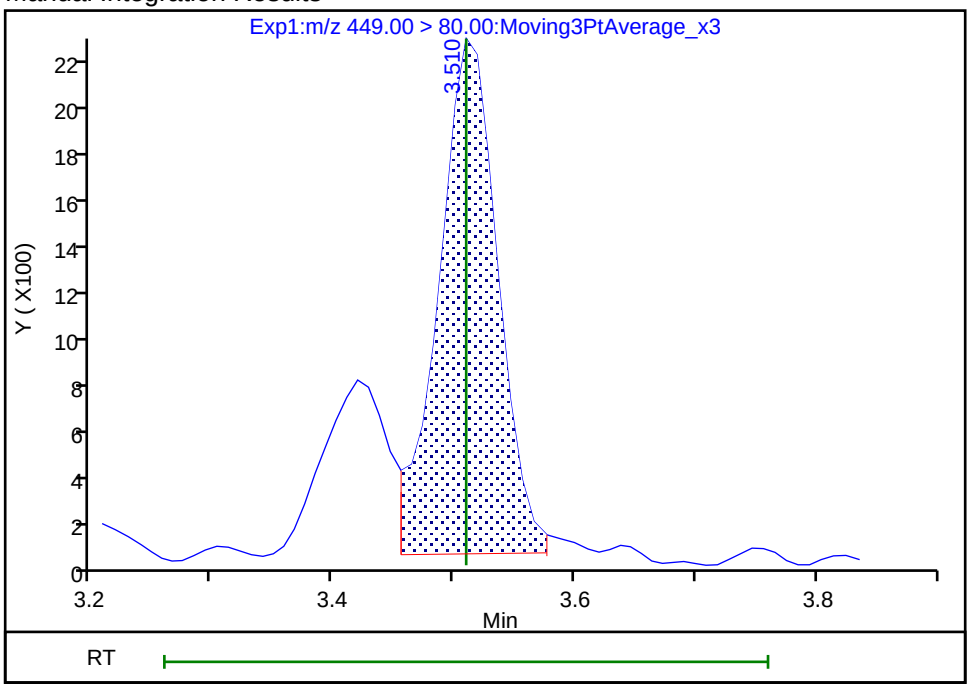
Processing Integration Results

RT: 3.51
Area: 7276
Amount: 0.009743
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 7460
Amount: 0.009990
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:23:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

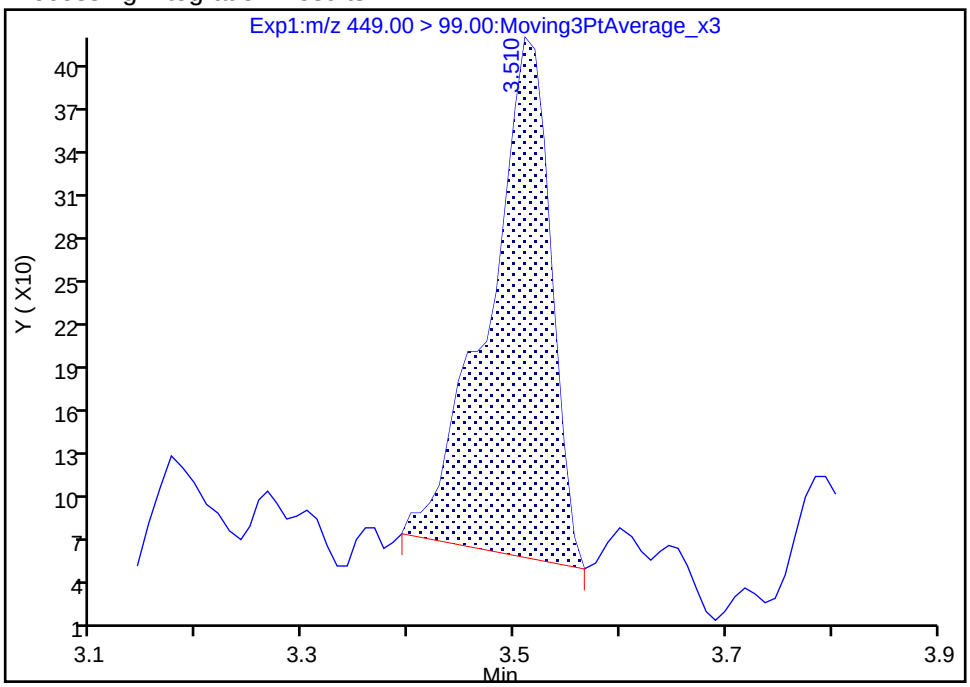
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

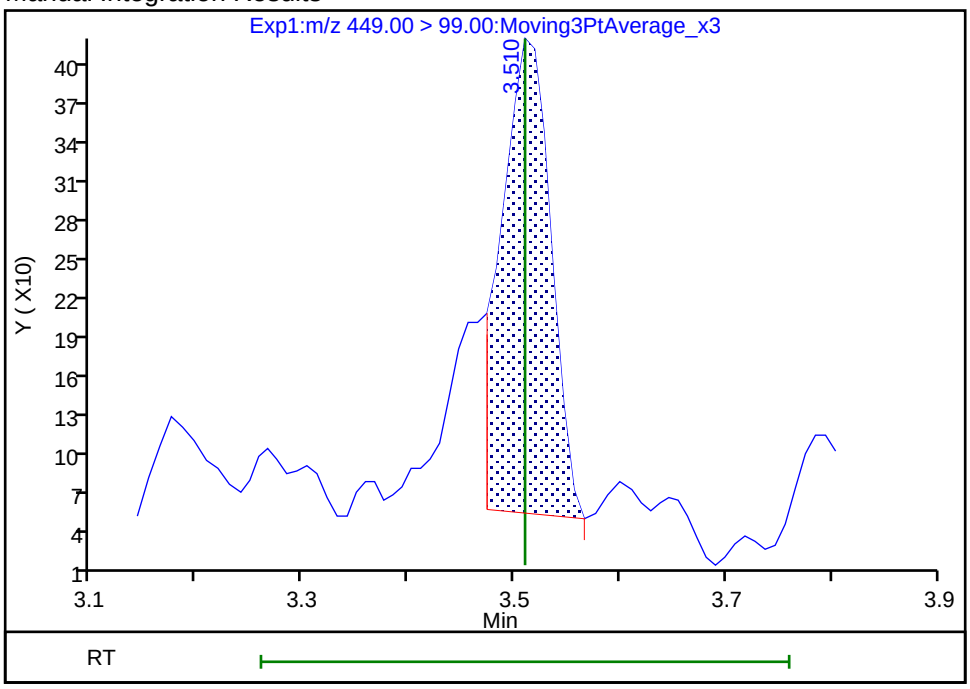
Processing Integration Results

RT: 3.51
Area: 1456
Amount: 0.009743
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 1139
Amount: 0.009990
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:24:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

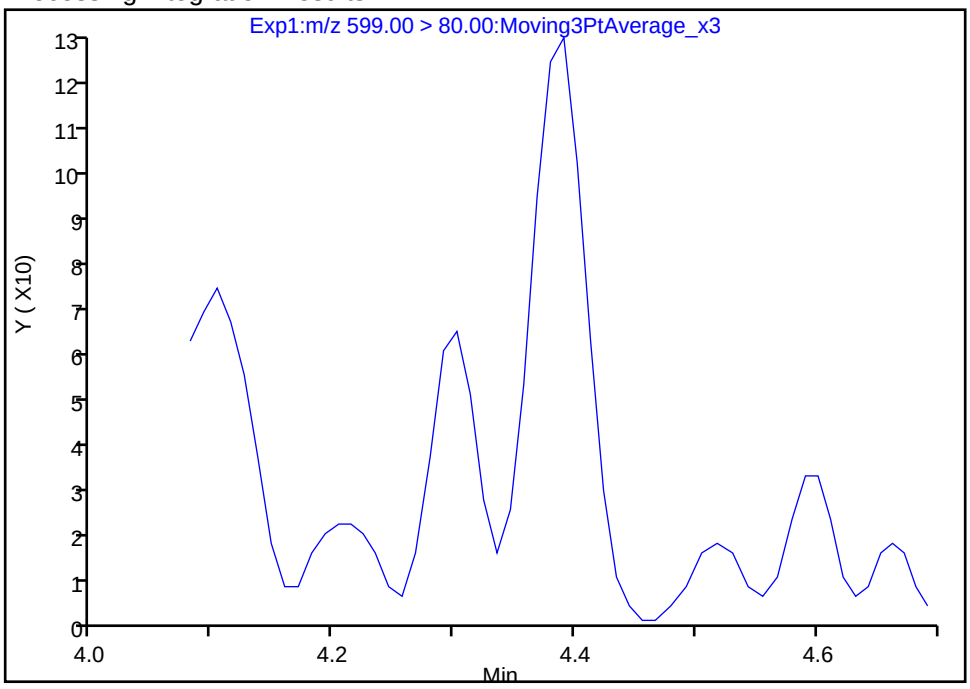
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

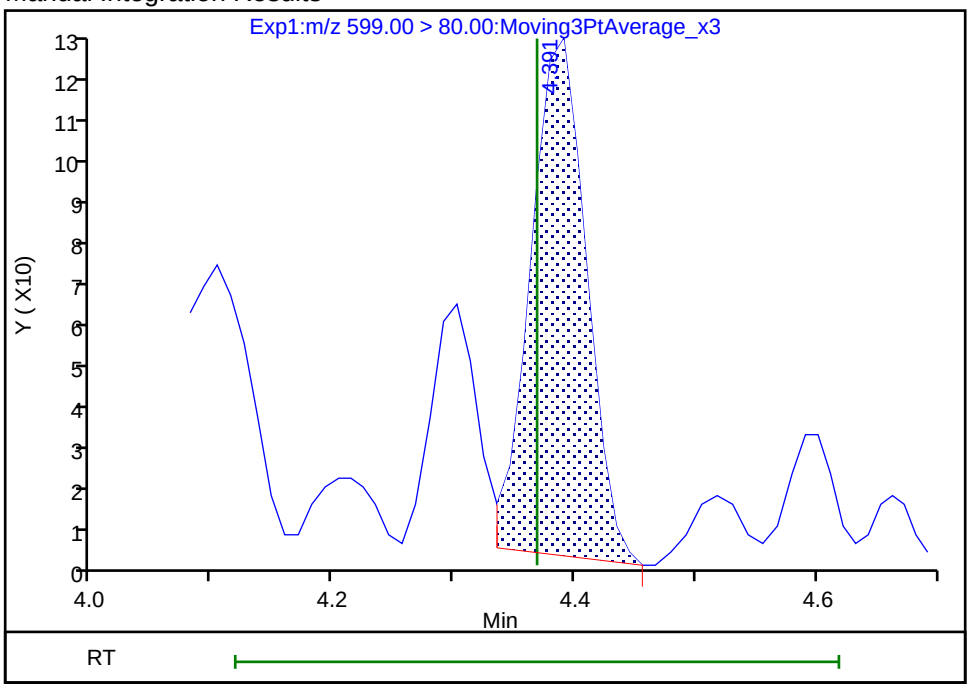
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 380
Amount: 0.001000
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:27:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

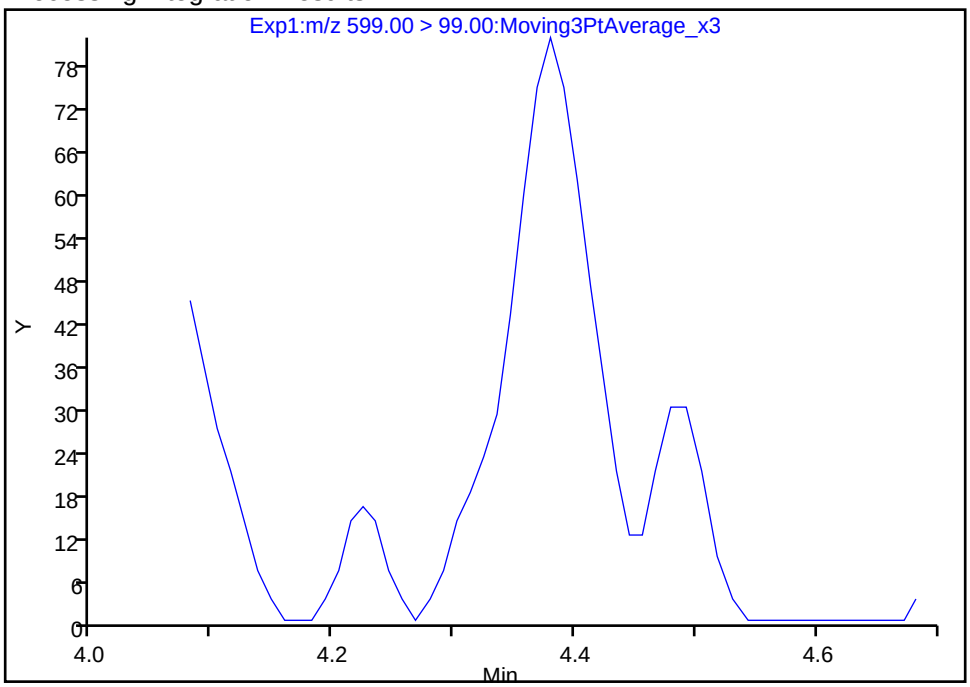
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

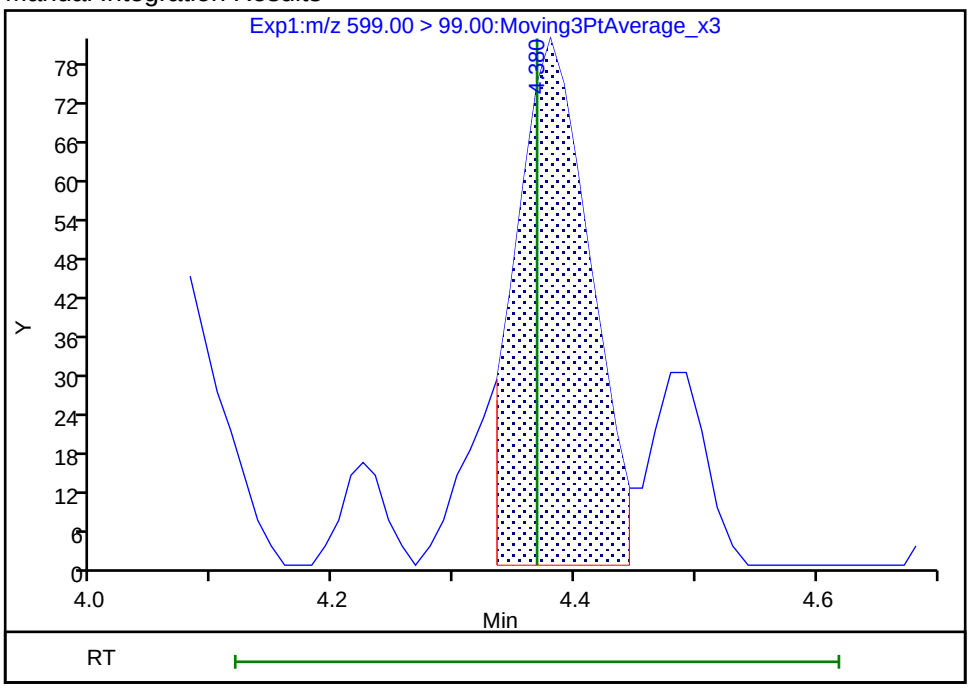
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 343
Amount: 0.001000
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:18:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

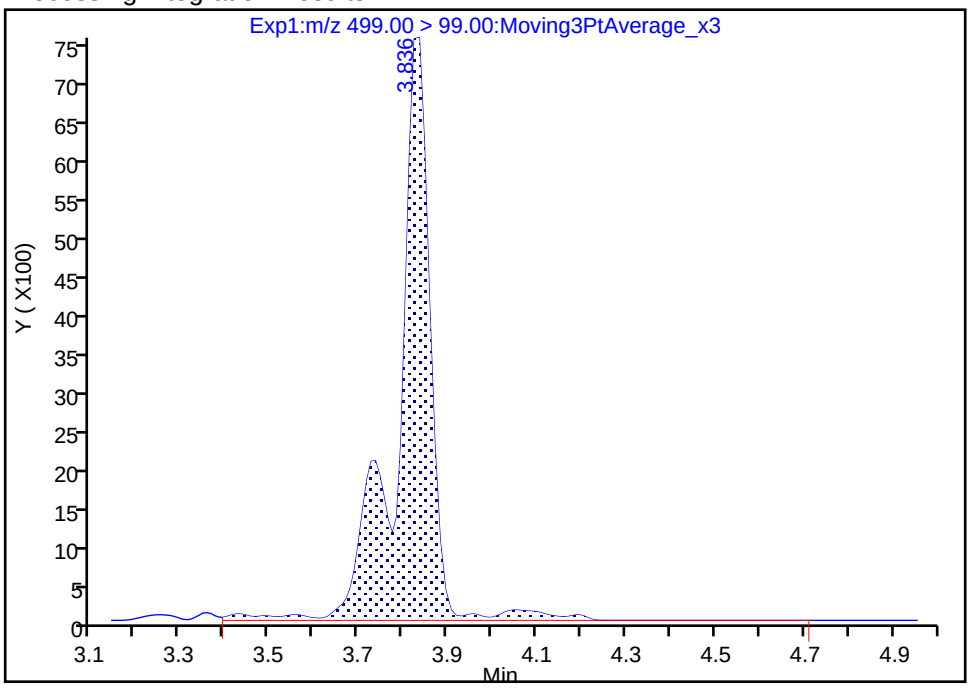
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	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

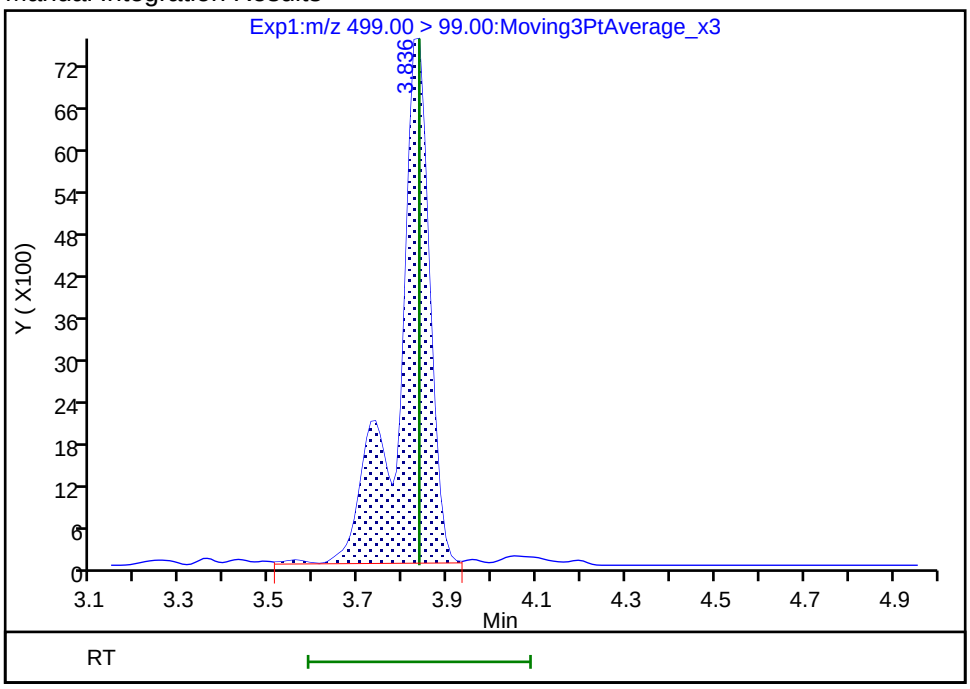
Processing Integration Results

RT: 3.84
Area: 39809
Amount: 0.464421
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 37387
Amount: 0.438362
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:25:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

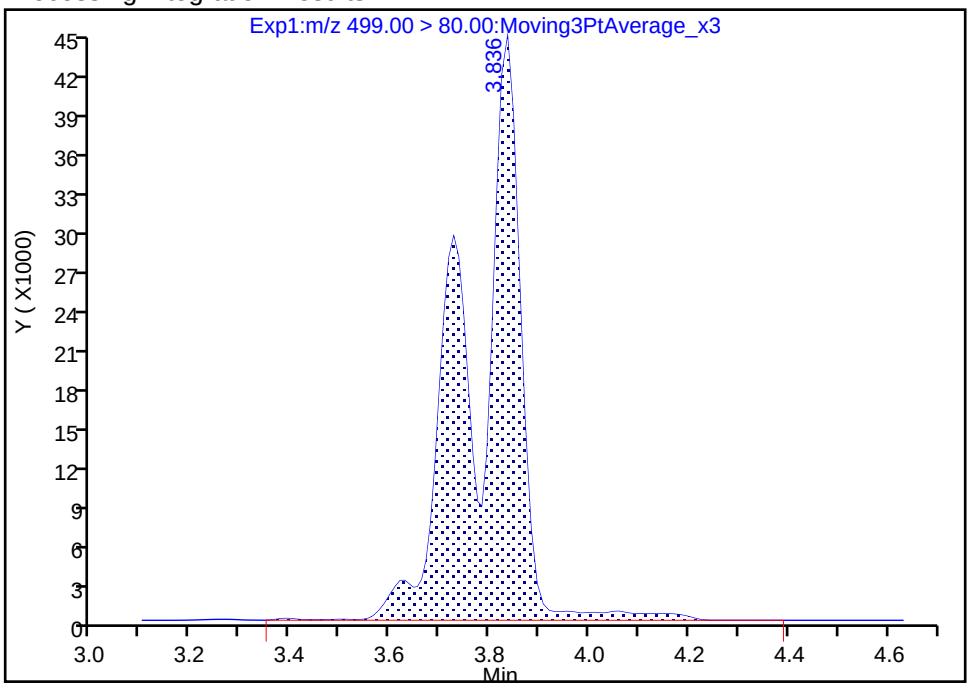
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Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

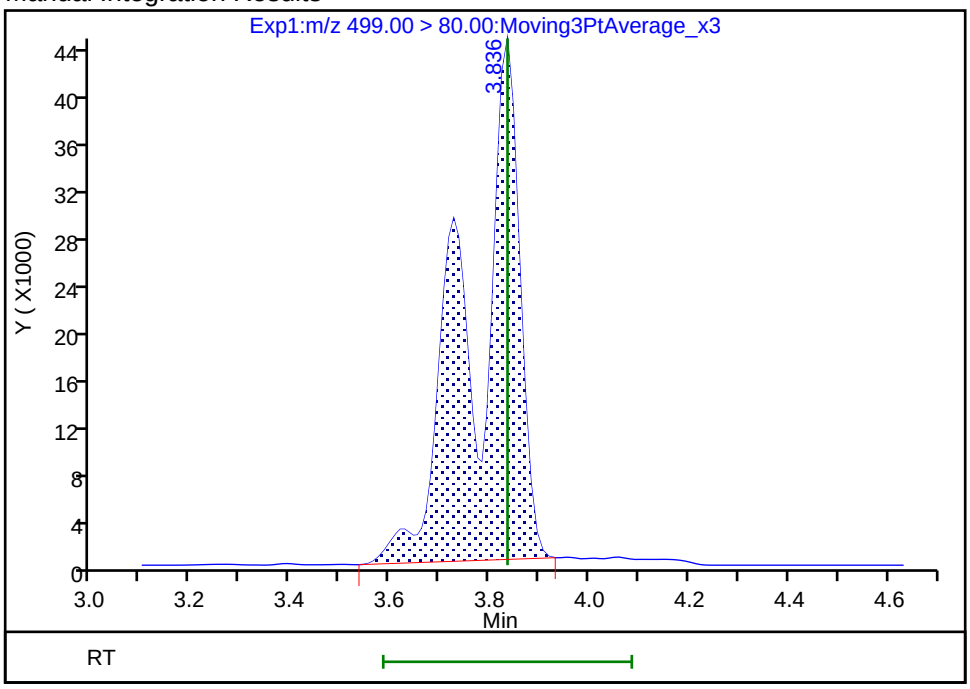
Processing Integration Results

RT: 3.84
Area: 312128
Amount: 0.464421
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 294614
Amount: 0.438362
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:25:55

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

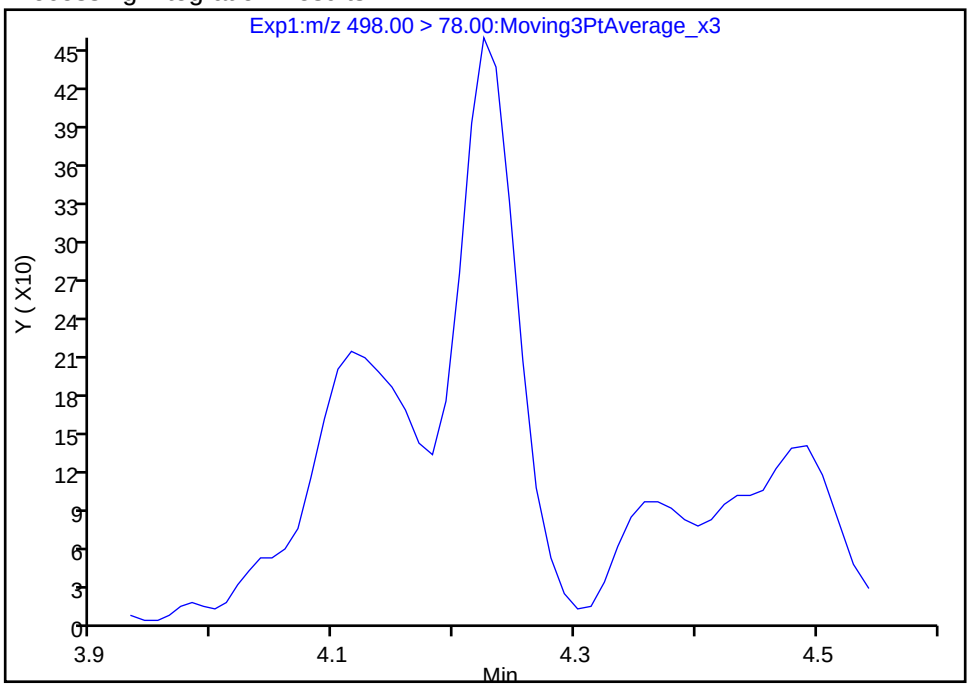
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	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

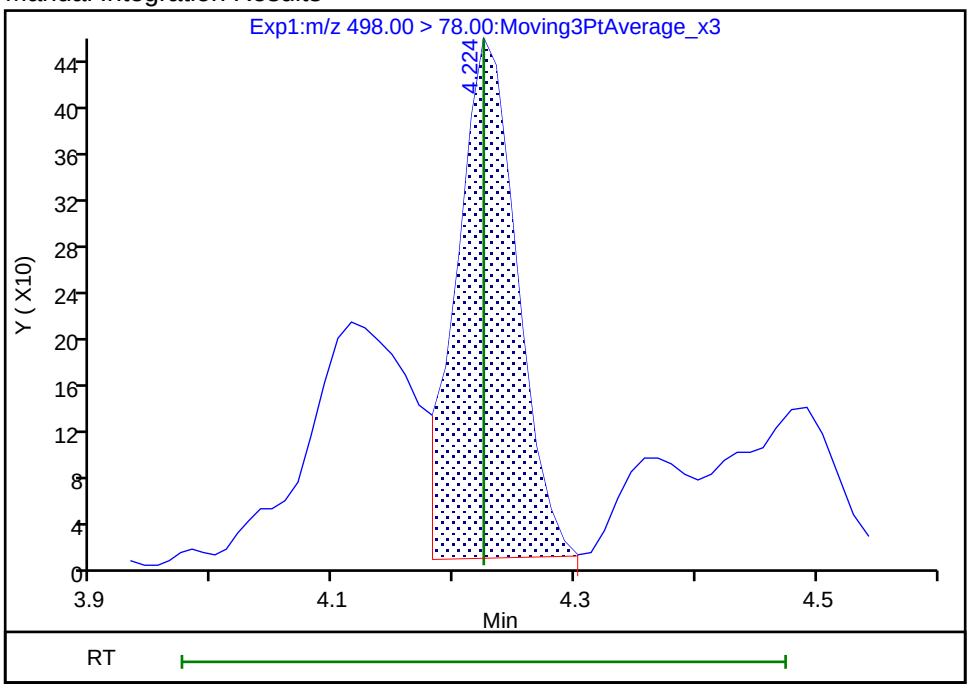
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22
Area: 1552
Amount: 0.001585
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:18:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

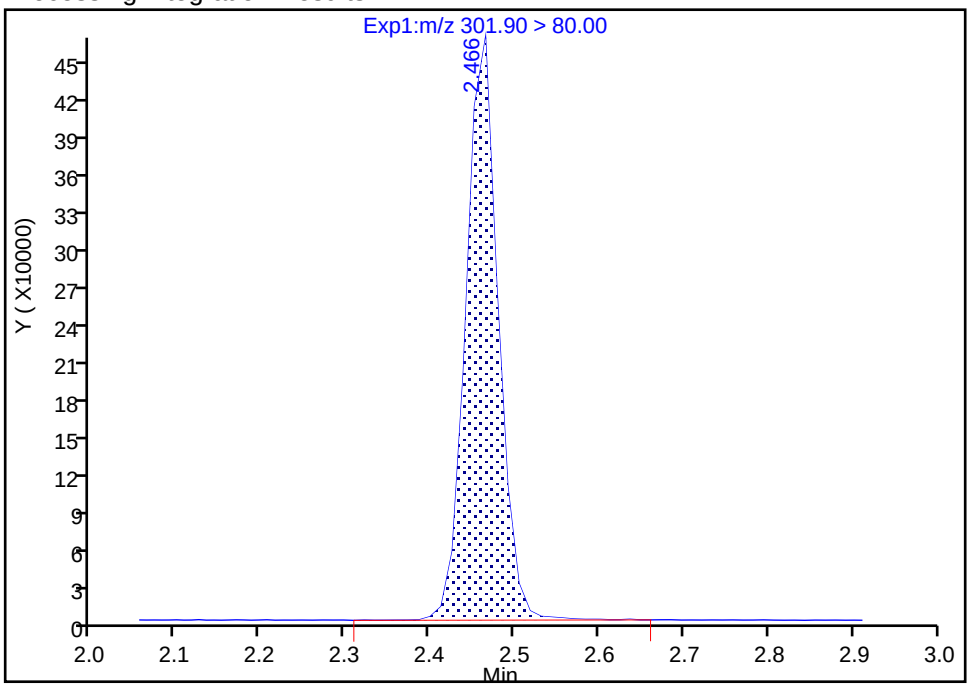
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

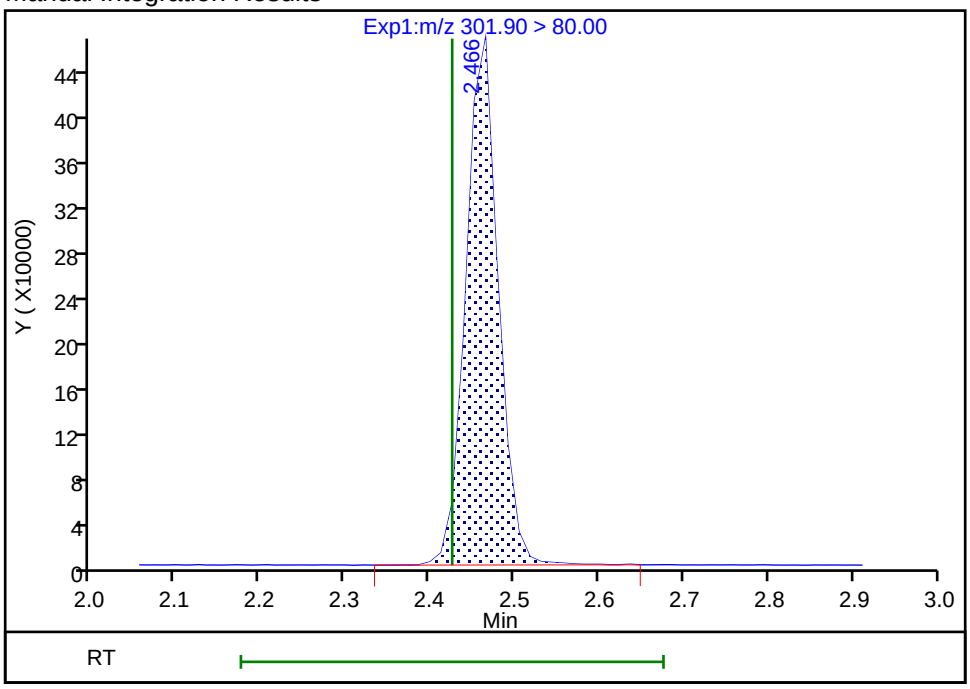
Processing Integration Results

RT: 2.47
Area: 1232817
Amount: 1.206198
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1231761
Amount: 1.205165
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:16:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

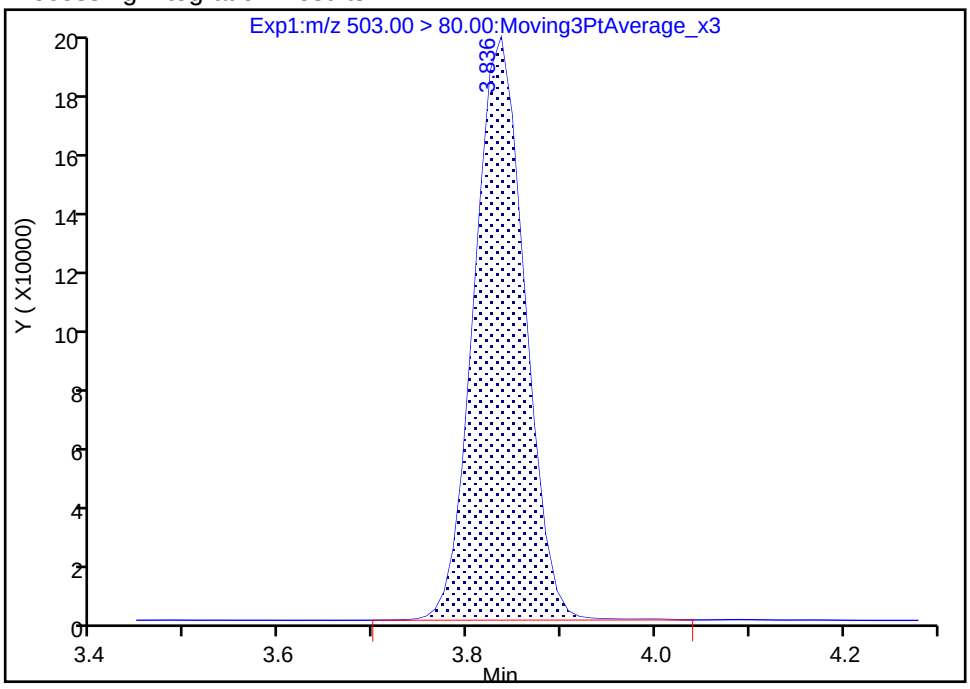
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

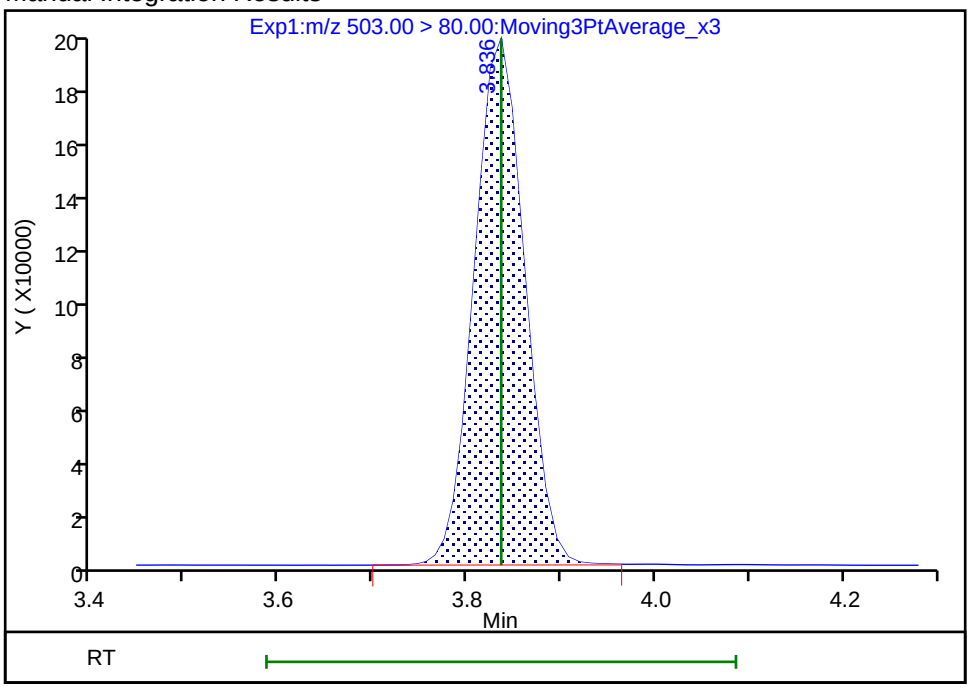
Processing Integration Results

RT: 3.84
Area: 717442
Amount: 1.210848
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 716645
Amount: 1.209503
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:17:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

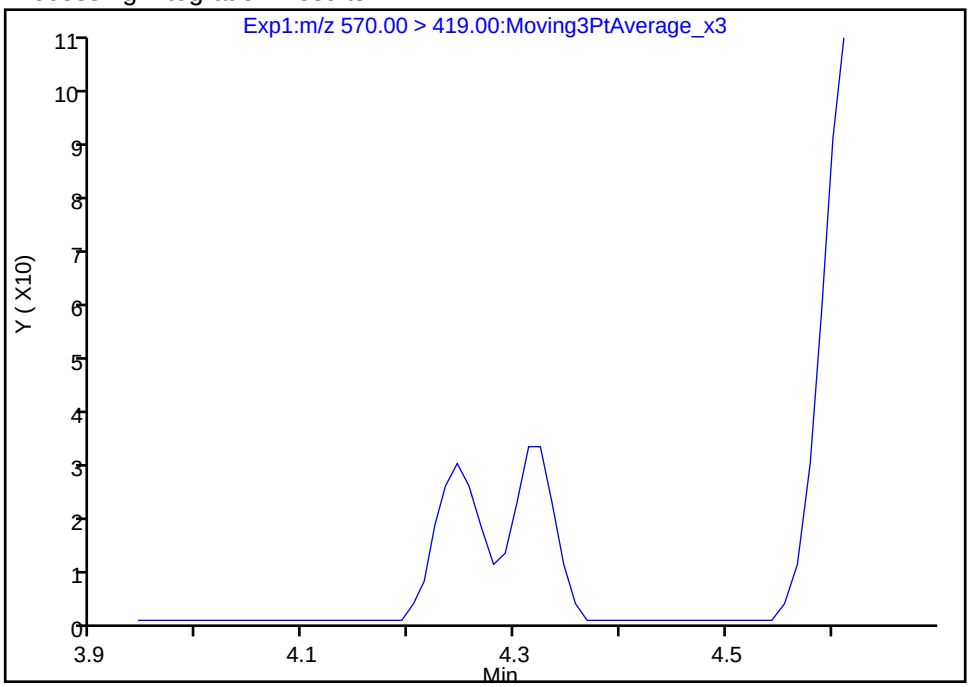
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d		
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6
Client ID:	MW-86-1SH		
Operator ID:	lc812tech	ALS Bottle#:	7 Worklist Smp#: 10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

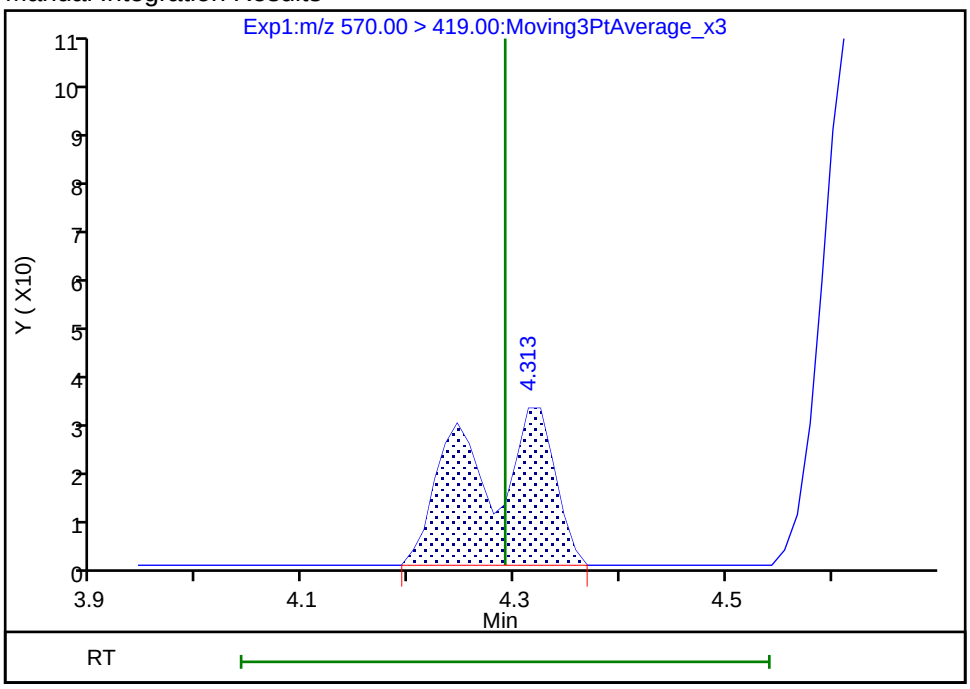
Not Detected
Expected RT: 4.29

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 170
Amount: 0.003192
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:27:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

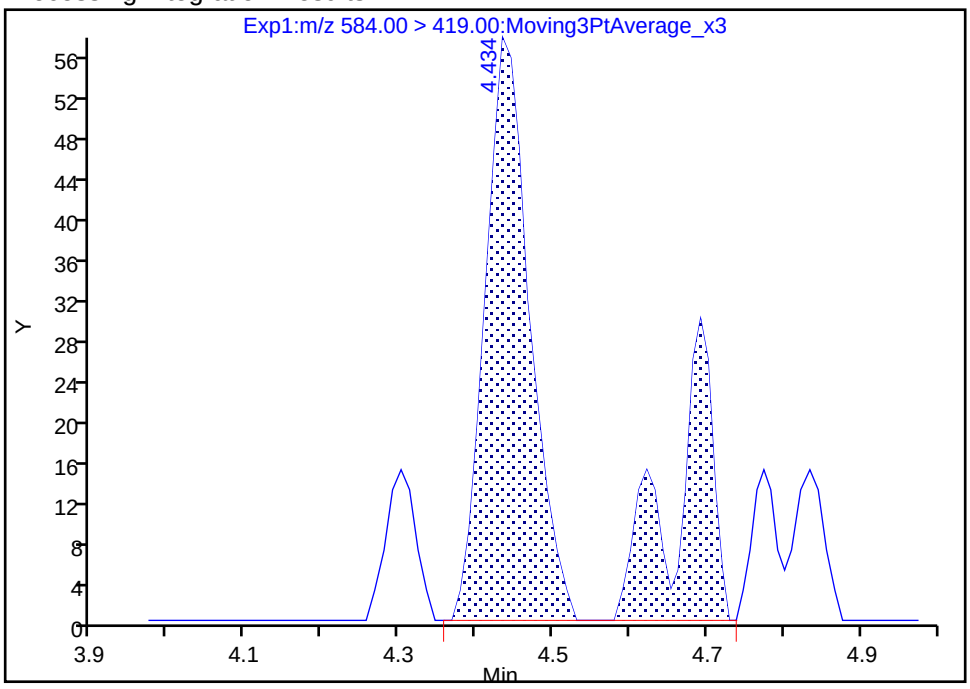
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

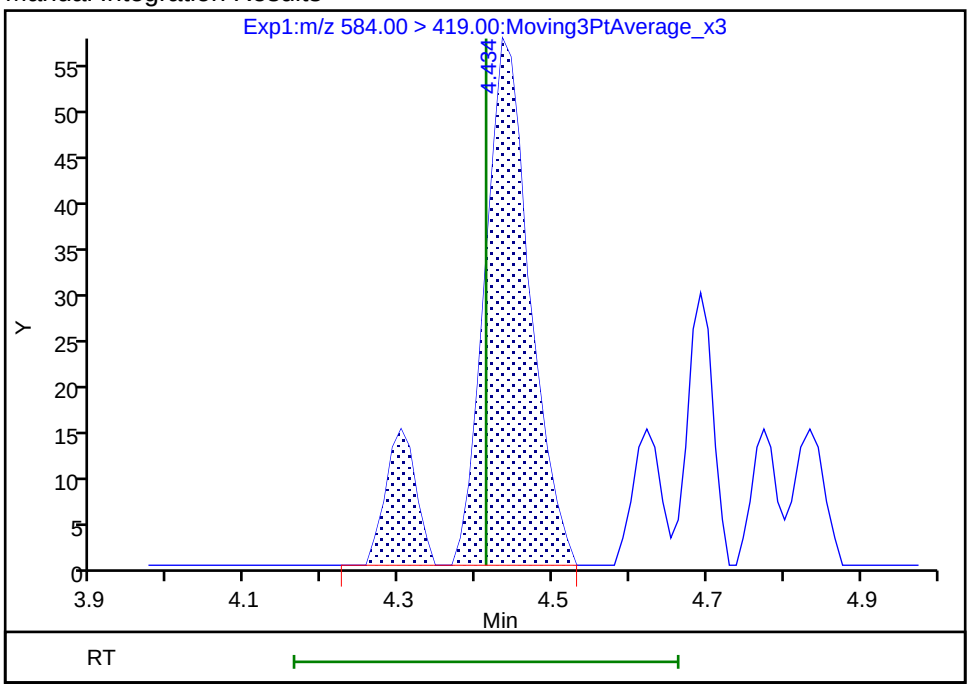
Processing Integration Results

RT: 4.43
Area: 340
Amount: 0.006530
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 275
Amount: 0.005281
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:19:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

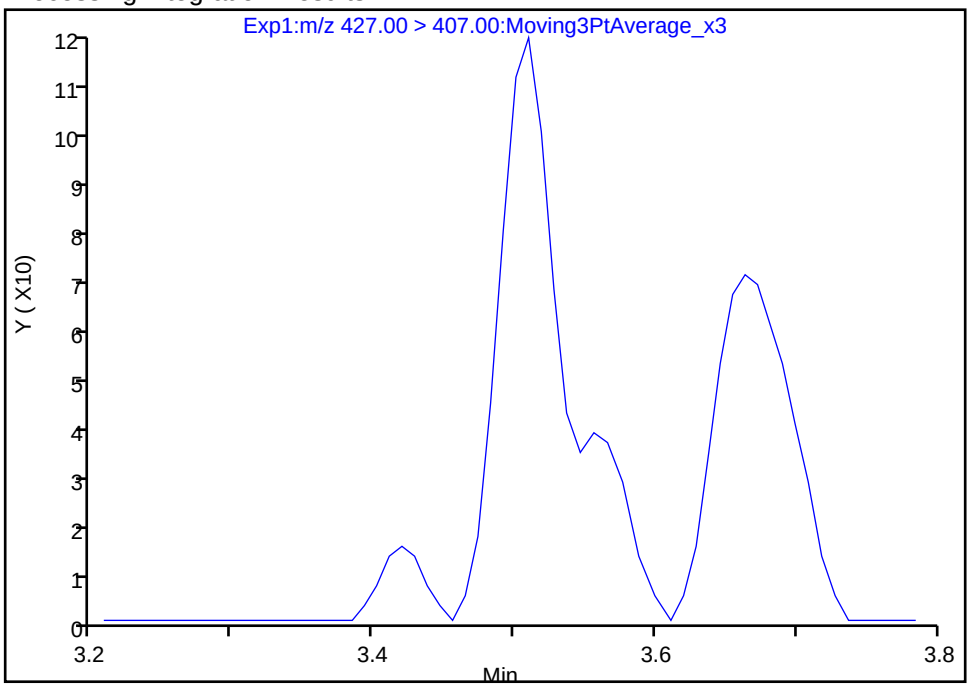
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	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-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

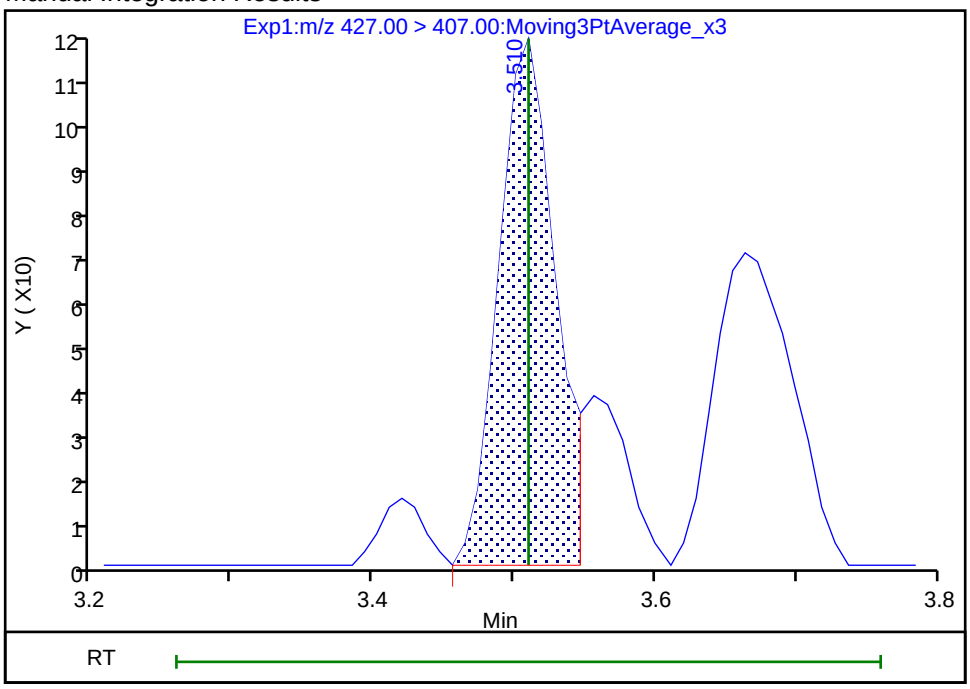
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 324
Amount: 0.002594
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:24:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

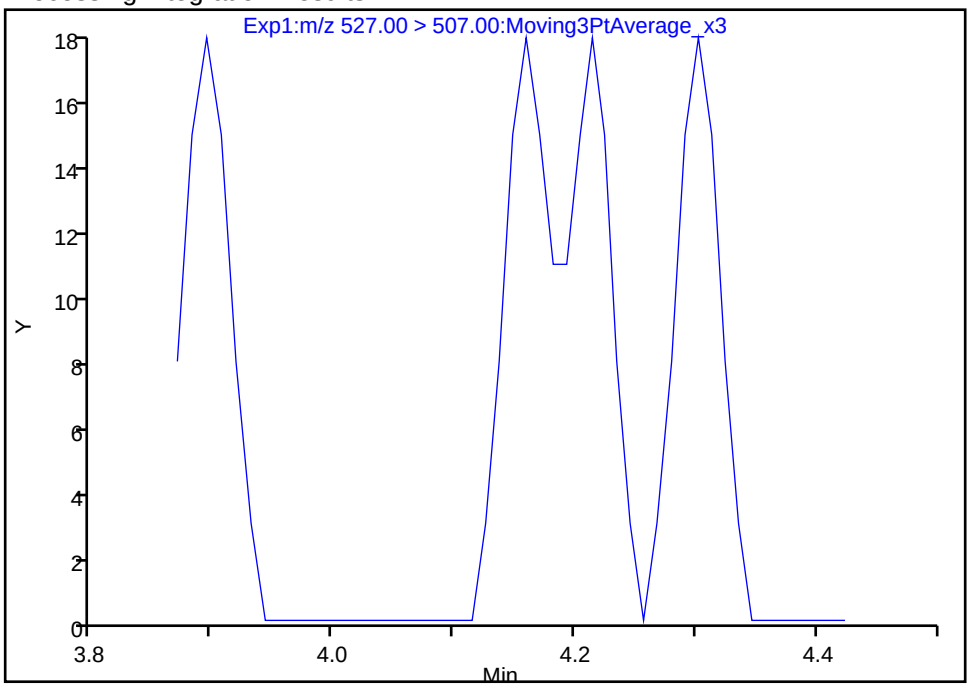
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	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-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

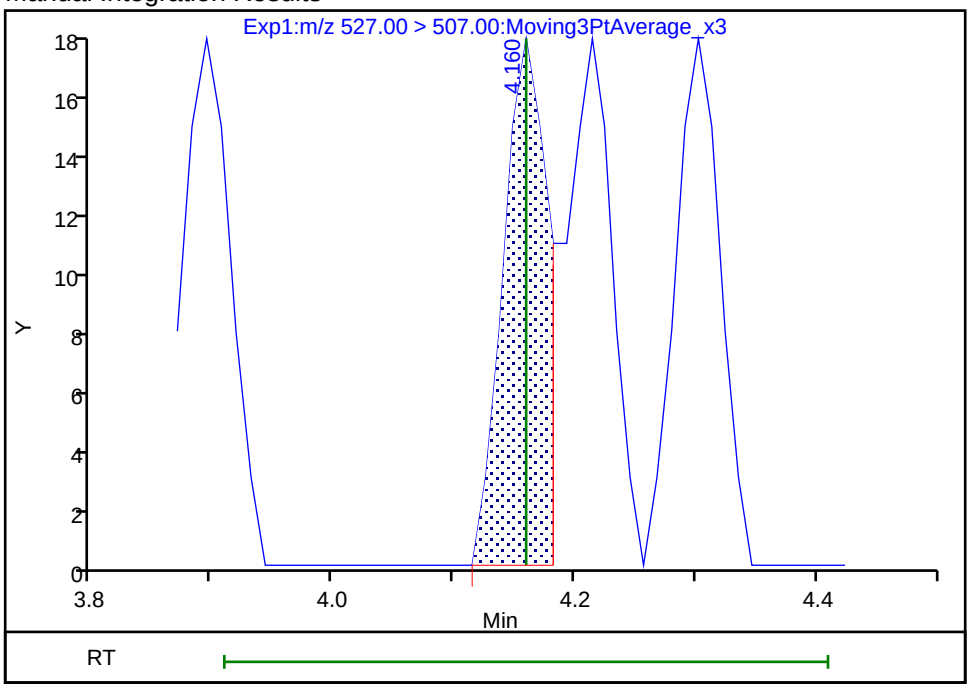
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 43
Amount: 0.000604
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:26:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

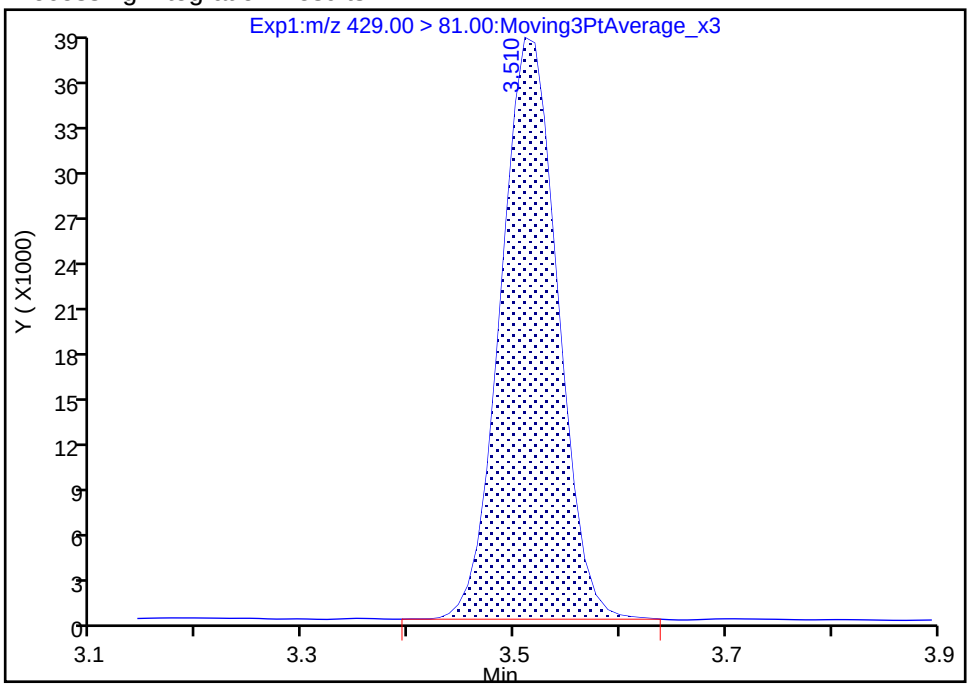
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A10.d				
Injection Date:	11-Aug-2021 14:00:08	Instrument ID:	LC812		
Lims ID:	480-188016-F-6-A	Lab Sample ID:	200-188016-6		
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

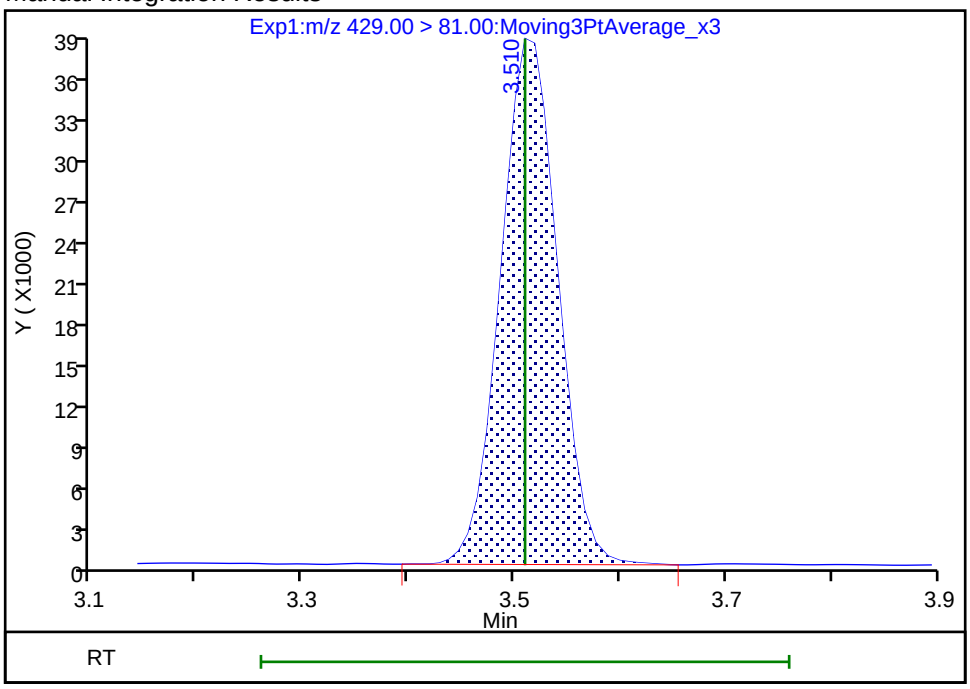
Processing Integration Results

RT: 3.51
Area: 142725
Amount: 1.267310
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 143104
Amount: 1.270675
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:17:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-X3 Lab Sample ID: 480-188016-7

Matrix: Water Lab File ID: PA210811A14.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 10:41

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 254(mL) Date Analyzed: 08/11/2021 14:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	8.2		4.9	0.88
2706-90-3	Perfluoropentanoic acid (PFPeA)	18		2.0	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	18		2.0	0.44
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.6		2.0	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	9.0		2.0	0.42
375-95-1	Perfluorononanoic acid (PFNA)	1.1	J	2.0	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	0.62	J	2.0	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.38
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.62
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.9	J B	2.0	0.25
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.1	J	2.0	0.30
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.33	J	2.0	0.23
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.30
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	23		2.0	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	1.5	J	2.0	0.57
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.9	0.89
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.84	J	4.9	0.73
27619-97-2	6:2 FTS	ND		4.9	1.1
39108-34-4	8:2 FTS	ND		2.0	0.38

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-X3 Lab Sample ID: 480-188016-7

Matrix: Water Lab File ID: PA210811A14.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 10:41

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 254(mL) Date Analyzed: 08/11/2021 14:33

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	96		25-150
STL00992	13C4 PFBA	86		25-150
STL01893	13C5 PFPeA	98		25-150
STL00993	13C2 PFHxA	100		50-150
STL01892	13C4 PFHpA	103		50-150
STL00990	13C4 PFOA	103		50-150
STL00995	13C5 PFNA	99		50-150
STL00996	13C2 PFDA	98		50-150
STL00997	13C2 PFUnA	86		50-150
STL00998	13C2 PFDoA	82		50-150
STL02116	13C2 PFTeDA	82		50-150
STL02337	13C3 PFBS	106		50-150
STL00994	18O2 PFHxS	107		50-150
STL00991	13C4 PFOS	91		50-150
STL02118	d3-NMeFOSAA	86		50-150
STL02117	d5-NEtFOSAA	77		50-150
STL02279	M2-6:2 FTS	113		25-150
STL02280	M2-8:2 FTS	87		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d
Lims ID: 480-188016-F-7-A
Client ID: MW-86-X3
Sample Type: Client
Inject. Date: 11-Aug-2021 14:33:16 ALS Bottle#: 11 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-F-7-A
Misc. Info.: 200-0047128-014 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:32:14 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 09:57:08
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	2.109	2.082	0.027	0.598	1415641	1.07		85.8	8780	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.082	0.027	1.000	226662	0.2077			31.9	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.691	1227193	1.23		98.3	3462	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.439	2.413	0.026	1.000	463277	0.4559			37.7	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.465	2.426	0.039	0.699	1302870	1.23		106	258113	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.465	2.426	0.039	1.000	57656	0.0476	Target=2.20		52.5	
298.90 > 99.00	2.465	2.426	0.039	1.000	26493		2.18(1.10-3.30)		19.9	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.807	2.782	0.025	0.796	1369175	1.24		99.6	4826	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.807	2.782	0.025	1.000	500756	0.4544	Target=12.93		118	M
313.00 > 119.00	2.807	2.782	0.025	1.000	37888		13.22(6.46-19.39)		113	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.175	3.154	0.021	0.900	1065697	1.27		107	3460	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.175	3.154	0.021	1.000	29023	0.0278	Target=4.48		72.7	M
399.00 > 99.00	3.164	3.154	0.010	0.997	5691		5.10(2.24-6.72)		8.4	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.175	3.154	0.021	1.000	76502	0.0653	Target=3.68		24.4	M
363.00 > 169.00	3.175	3.154	0.021	1.000	22511		3.40(1.84-5.53)		57.3	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1417238	1.29		103	4078	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.519	3.510	0.009	0.917	5905	0.008485	Target=6.56		20.8	M
449.00 > 99.00	3.501	3.510	-0.009	0.913	1027		5.75(3.28-9.84)		5.0	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.519	3.510	0.009	0.997	155783	1.34		113	445	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.519	3.510	0.009	1.000	251	0.001846			5.8	M
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1465197	1.29		103	3135	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1441280	1.25			3662	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	282242	0.2288	Target=2.67		115	
413.00 > 169.00	3.528	3.519	0.009	1.000	119074		2.37(1.33-4.00)		352	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.087	667825	1.09		91.1	2234	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	362775	0.5792	Target=6.69		425	M
499.00 > 99.00	3.836	3.836	0.0	1.000	52553		6.90(3.34-10.03)		196	M
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.094	1334371	1.23		98.7	5035	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.858	3.858	0.0	1.000	29010	0.0281	Target=7.21		11.7	M
463.00 > 169.00	3.858	3.858	0.0	1.000	3409		8.51(3.60-10.81)		40.0	M
D 23 13C2 PFDA										
515.00 > 470.00	4.159	4.148	0.011	1.179	1200507	1.22		97.9	3223	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.159	4.148	0.011	1.000	16208	0.0159	Target=8.42		15.6	M
513.00 > 169.00	4.159	4.148	0.011	1.000	1401		11.57(4.21-12.63)		10.0	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.115	4.160	-0.045	0.989	136	0.002261				M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.159	4.160	-0.001	1.179	144588	1.04		87.0	734	
D 21 13C8 FOSA										
506.00 > 78.00	4.234	4.224	0.010	1.200	1298904	1.20		96.1	3334	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.234	4.224	0.010	1.000	38357	0.0377			16.8	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.302	4.280	0.022	1.219	77364	1.07		85.8	974	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.302	4.291	0.011	1.000	743	0.0144			4.3	M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.391	4.369	0.022	1.145	766	0.002164	Target=2.66		8.8	RM
599.00 > 99.00	4.380	4.369	0.011	1.142	656		1.17(1.33-3.99)		5.5	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.251	833391	1.07		85.7	2960	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.413	4.402	0.011	1.000	3016	0.004676	Target=7.70		5.3	RM
563.00 > 169.00	4.423	4.402	0.021	1.002	237		12.73(3.85-11.56)		4.1	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.434	4.413	0.021	1.257	72690	0.9680		77.4	607	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.445	4.413	0.032	1.002	1056	0.0214			21.8	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.653	4.632	0.021	1.319	823715	1.02		81.9	2963	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.653	4.632	0.021	1.000	3529	0.005305	Target=6.31		1.5	M
613.00 > 169.00	4.663	4.632	0.031	1.002	456		7.74(3.15-9.46)		7.1	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.856	4.845	0.011	1.044	2037	0.003552	Target=4.61		1.3	
663.00 > 169.00	4.856	4.845	0.011	1.044	348		5.85(2.31-6.92)		4.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.034	0.019	1.432	646149	1.02		82.0	3600	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.043	5.034	0.009	0.998	418	0.004705	Target=1.00		10.1	M
713.00 > 219.00	5.043	5.034	0.009	0.998	288		1.45(0.50-1.51)		11.4	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:32:20 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d

Injection Date: 11-Aug-2021 14:33:16 Instrument ID: LC812

Lims ID: 480-188016-F-7-A Lab Sample ID: 200-188016-7

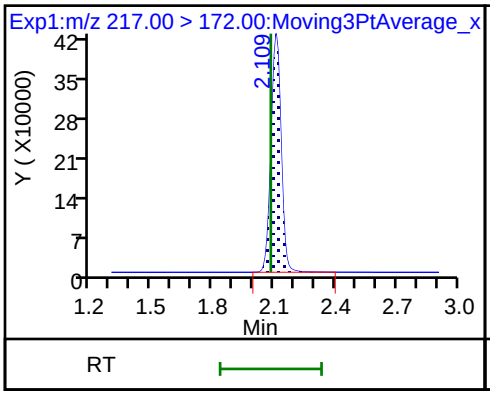
Client ID: MW-86-X3

Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 14

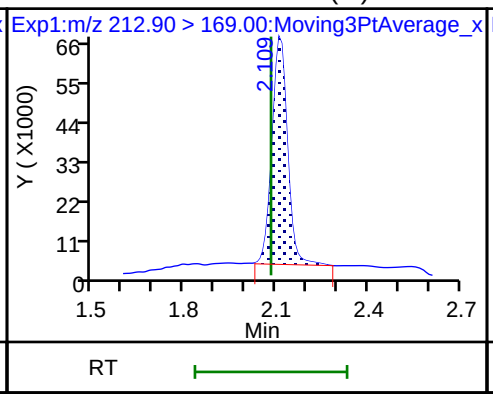
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

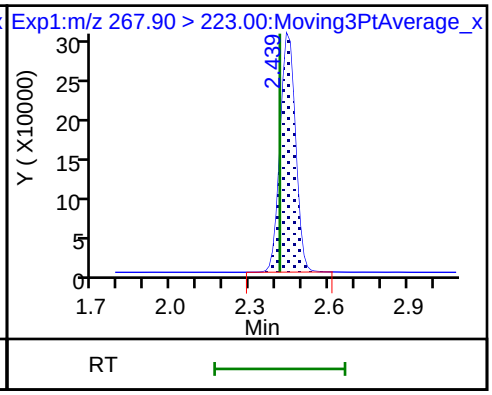
D 1 13C4 PFBA



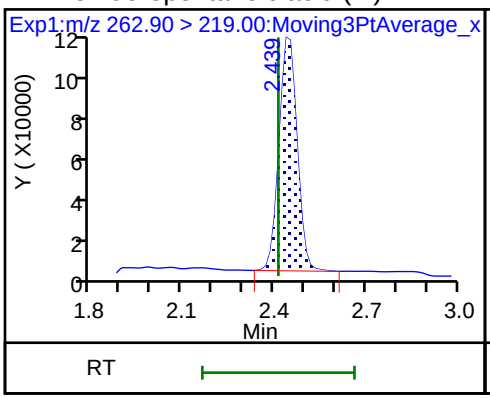
2 Perfluorobutanoic acid (M)



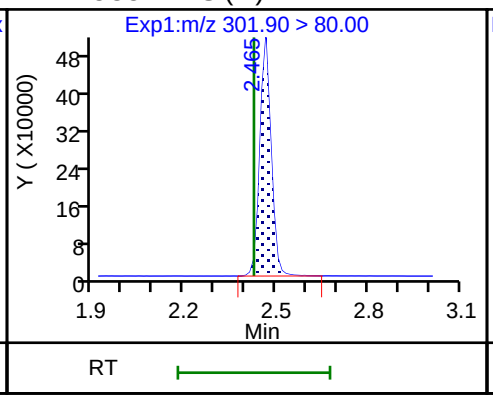
D 3 13C5 PFPeA



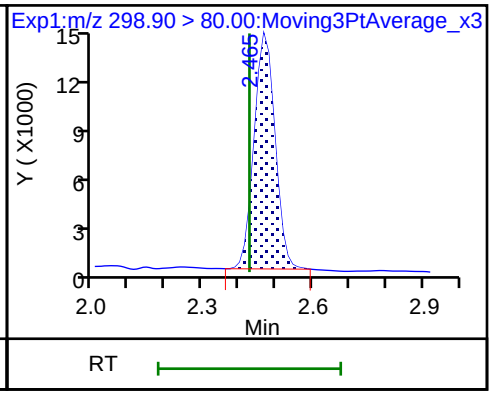
4 Perfluoropentanoic acid (M)



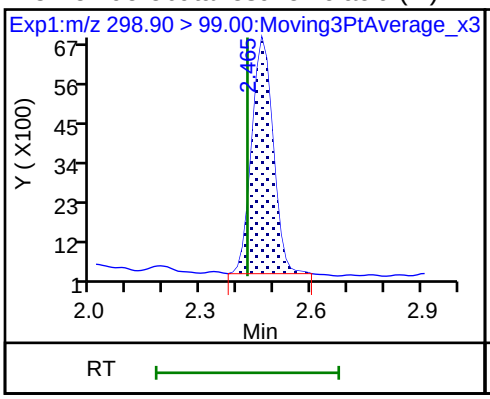
D 47 13C3 PFBS (M)



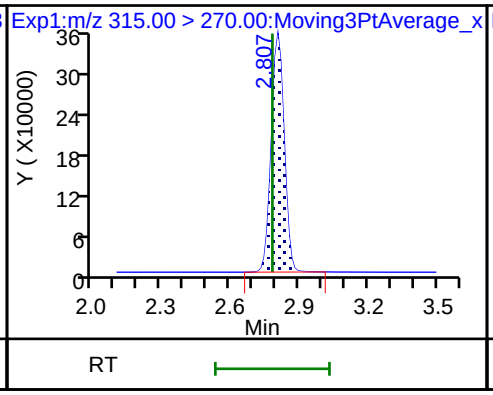
5 Perfluorobutanesulfonic acid



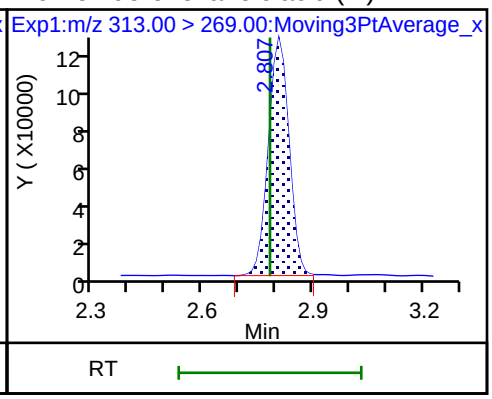
5 Perfluorobutanesulfonic acid (M)



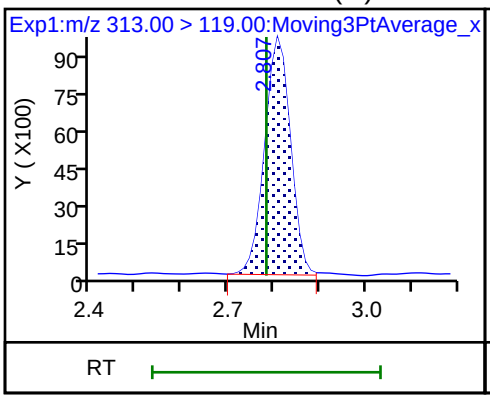
D 7 13C2 PFHxA



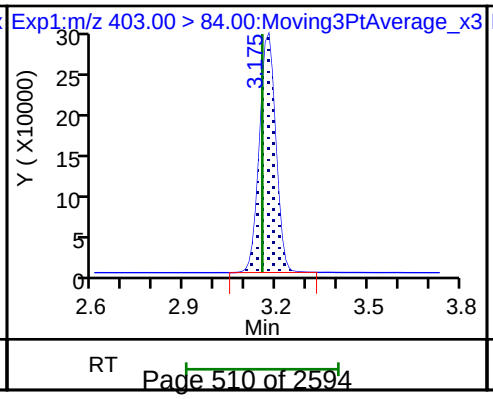
6 Perfluorohexanoic acid (M)



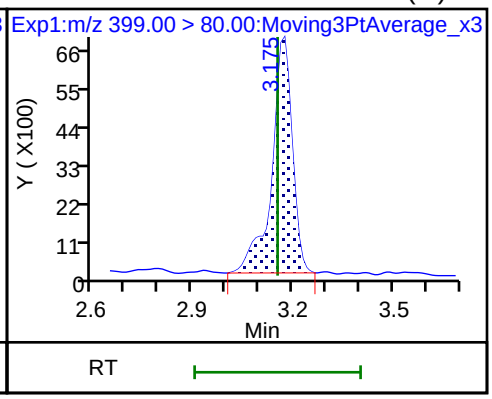
6 Perfluorohexanoic acid (M)



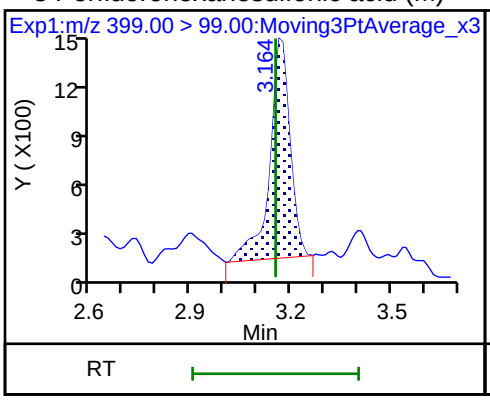
D 11 18O2 PFHxS



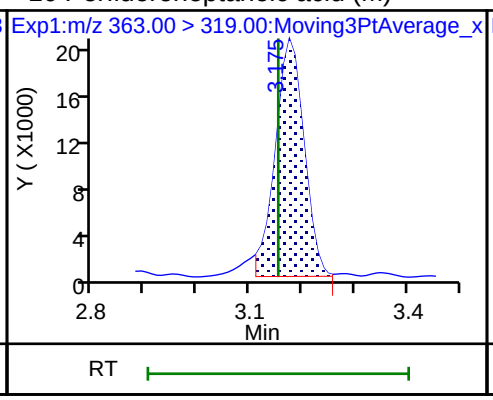
8 Perfluorohexanesulfonic acid (M)



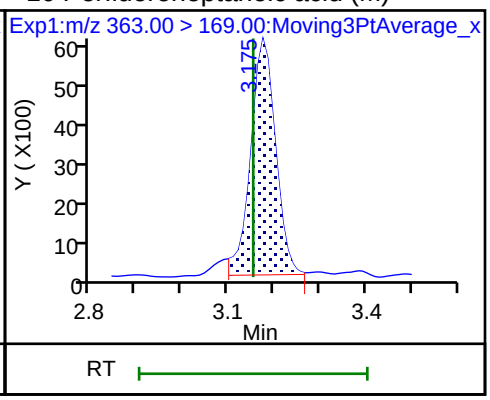
8 Perfluorohexanesulfonic acid (M)



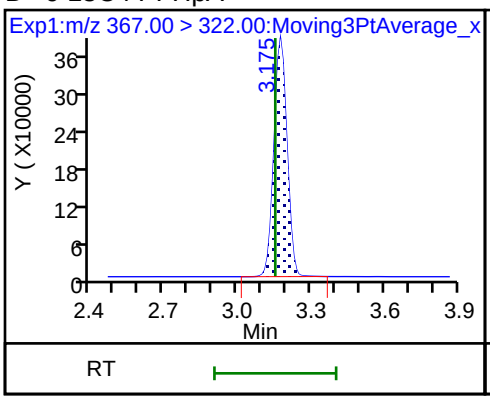
10 Perfluoroheptanoic acid (M)



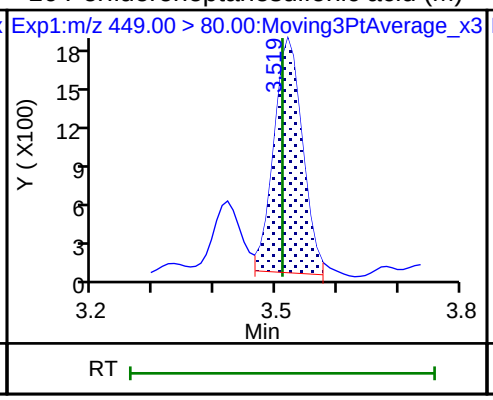
10 Perfluoroheptanoic acid (M)



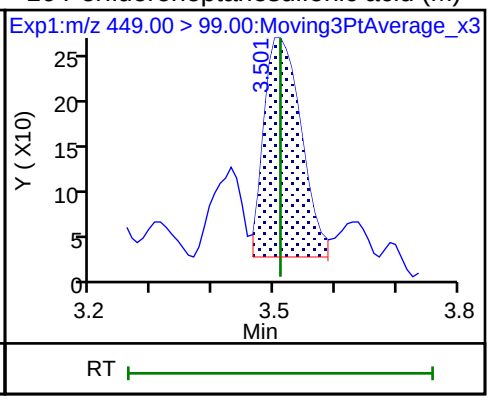
D 9 13C4 PFHpA



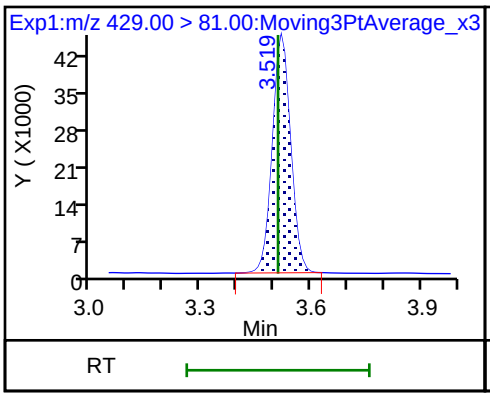
16 Perfluoroheptanesulfonic acid (M)



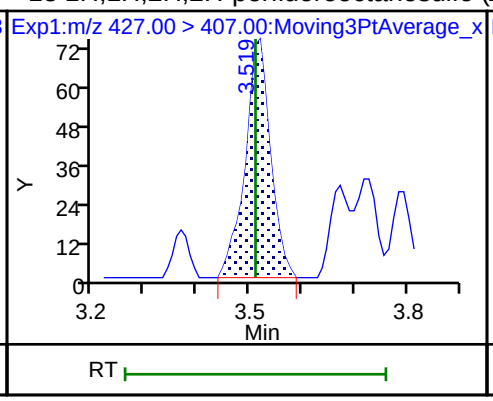
16 Perfluoroheptanesulfonic acid (M)



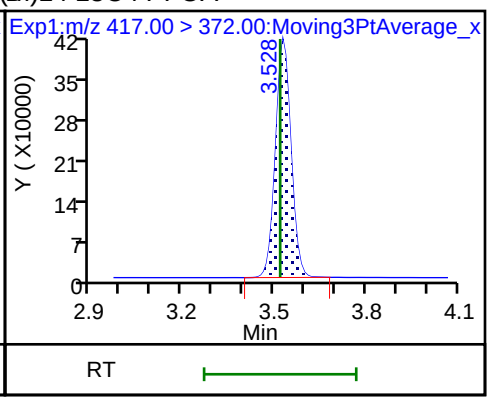
D 12 M2-6:2 FTS



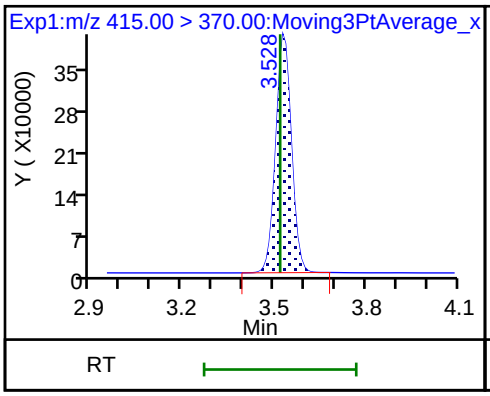
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



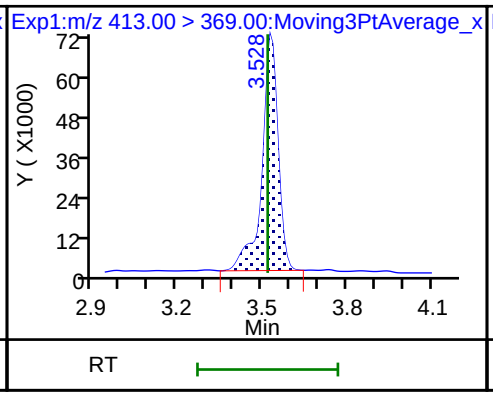
D 14 13C4 PFOA



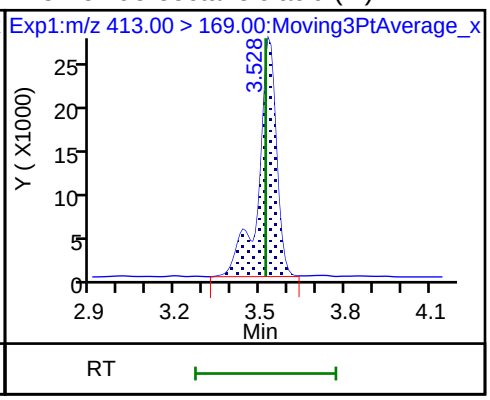
* 62 13C2 PFOA



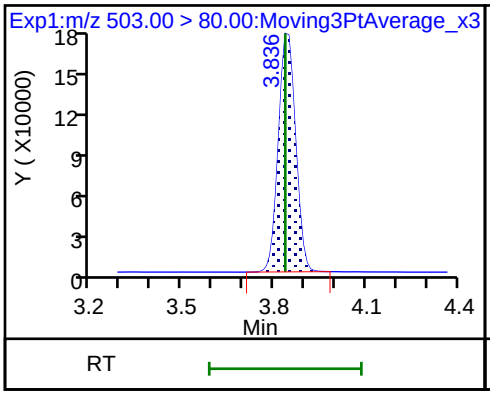
15 Perfluorooctanoic acid



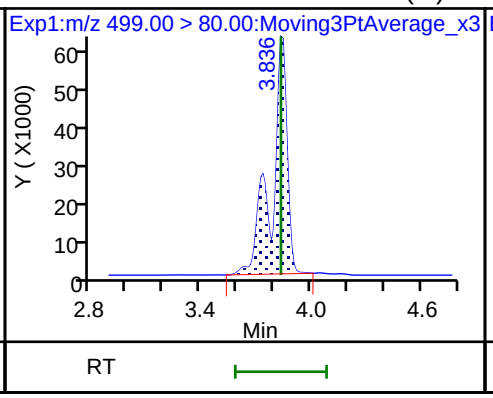
15 Perfluorooctanoic acid (M)



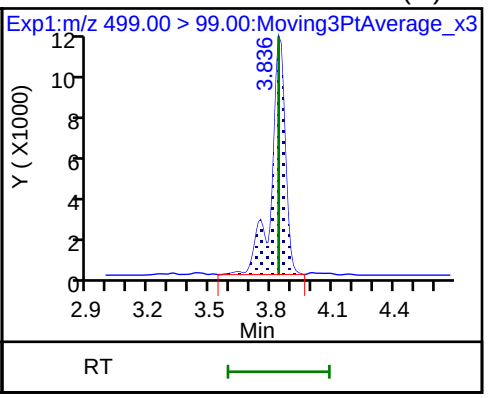
D 18 13C4 PFOS



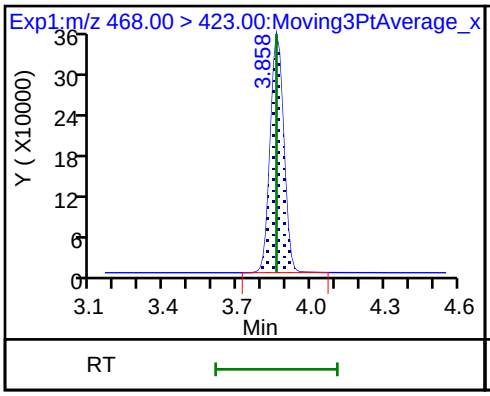
17 Perfluorooctanesulfonic acid (M)



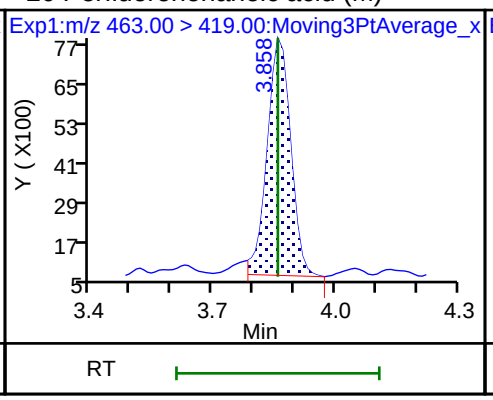
17 Perfluorooctanesulfonic acid (M)



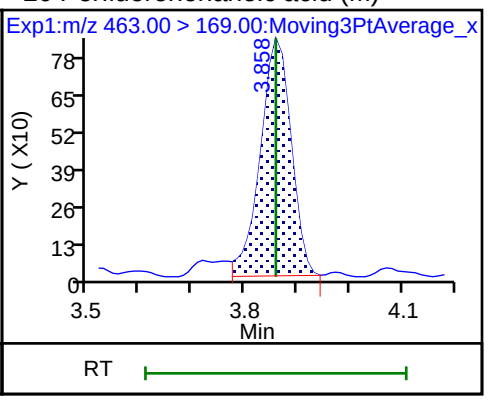
D 19 13C5 PFNA



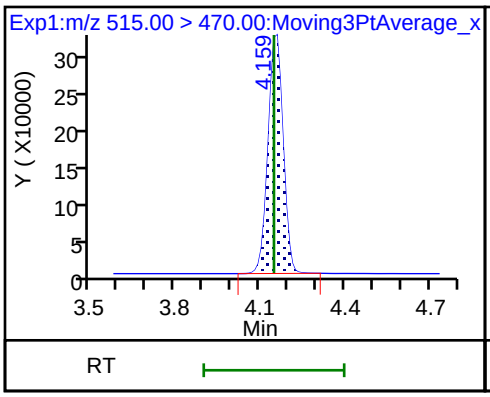
20 Perfluorononanoic acid (M)



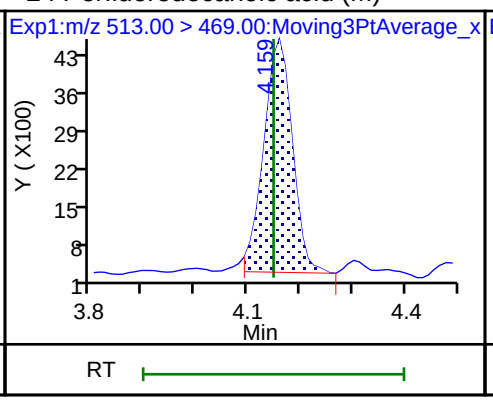
20 Perfluorononanoic acid (M)



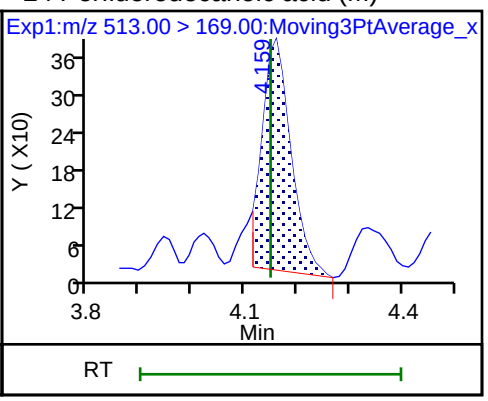
D 23 13C2 PFDA



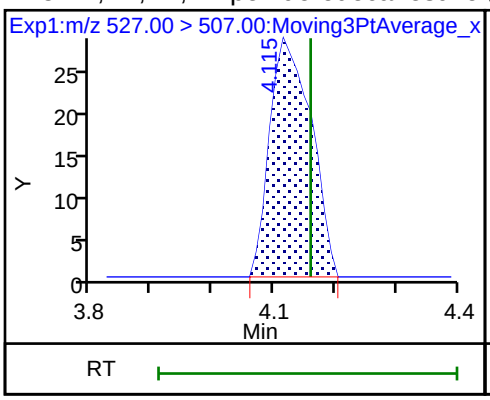
24 Perfluorodecanoic acid (M)



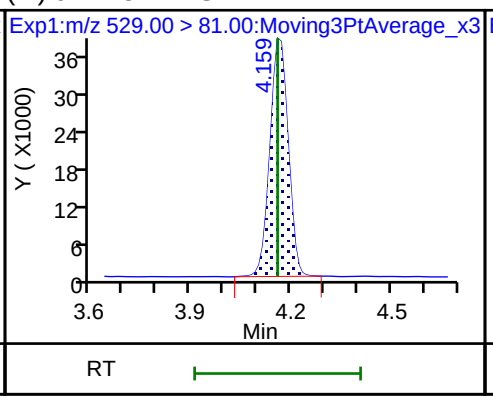
24 Perfluorodecanoic acid (M)



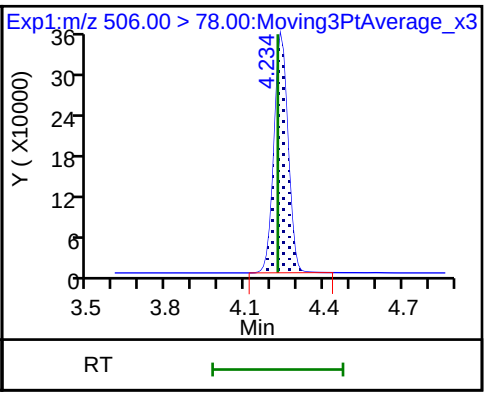
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



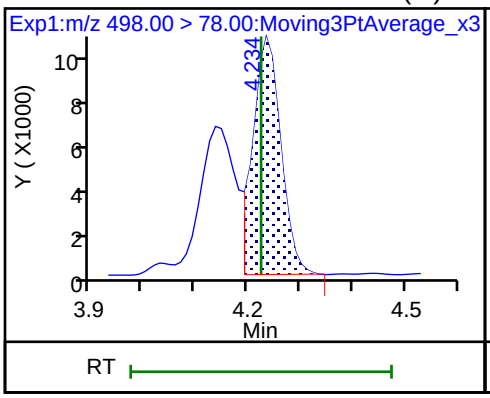
D 26 M2-8:2 FTS



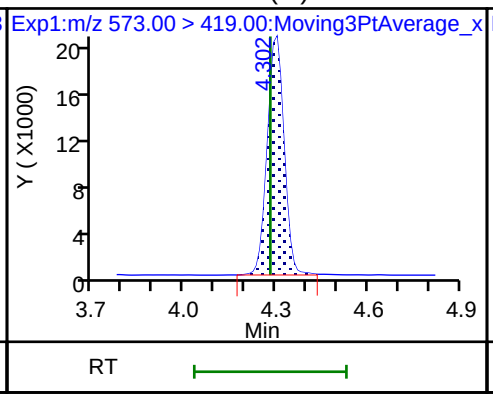
D 21 13C8 FOSA



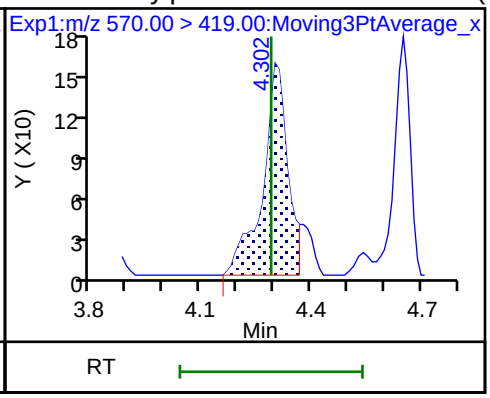
22 Perfluorooctanesulfonamide (M)



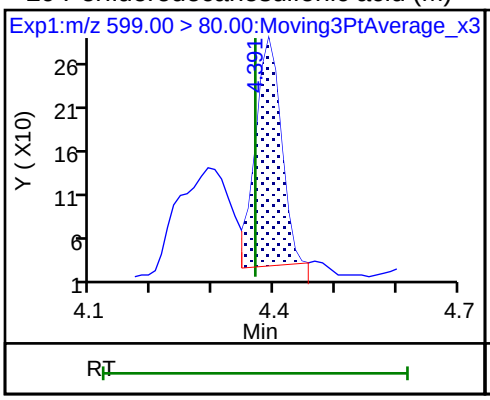
D 27 d3-NMeFOSAA (M)



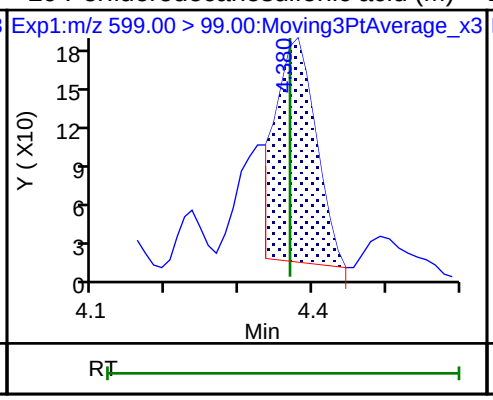
28 N-methylperfluorooctanesulfonami (M)



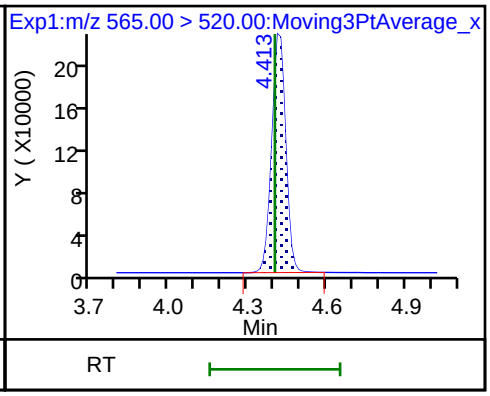
29 Perfluorodecanesulfonic acid (M)



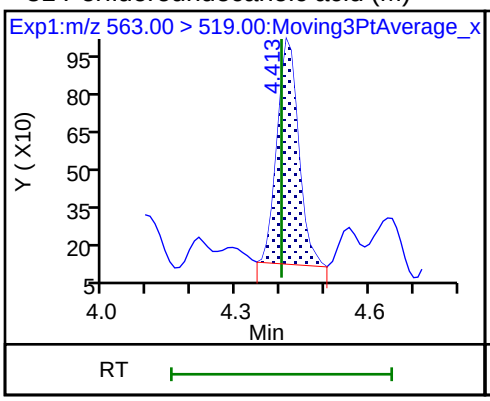
29 Perfluorodecanesulfonic acid (M)



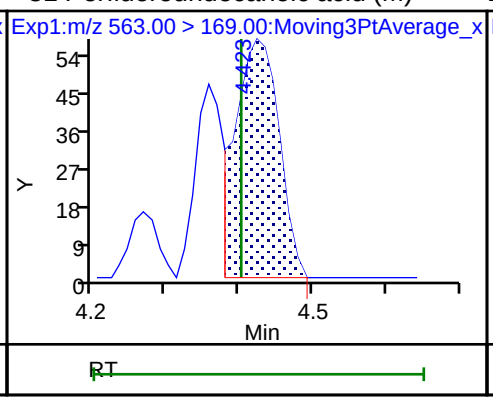
D 30 13C2 PFUnA



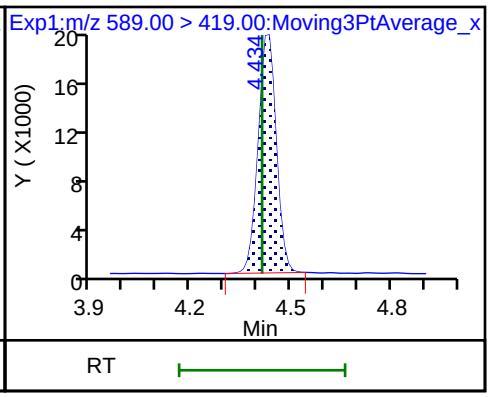
31 Perfluoroundecanoic acid (M)



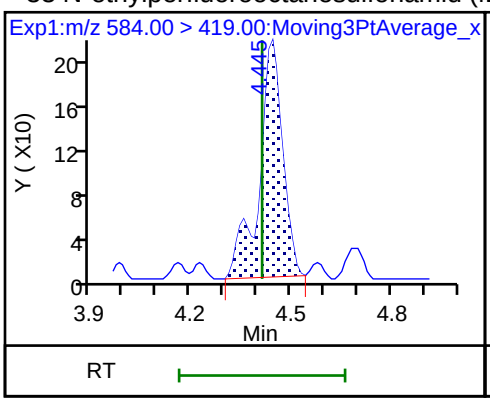
31 Perfluoroundecanoic acid (M)



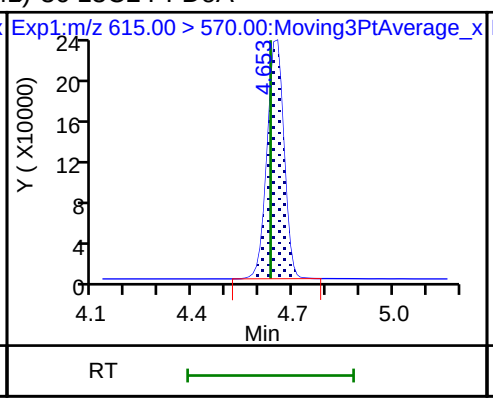
D 32 d5-NEtFOSAA



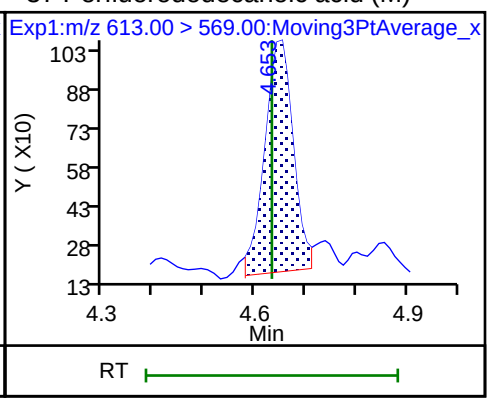
33 N-ethylperfluorooctanesulfonamid (M)



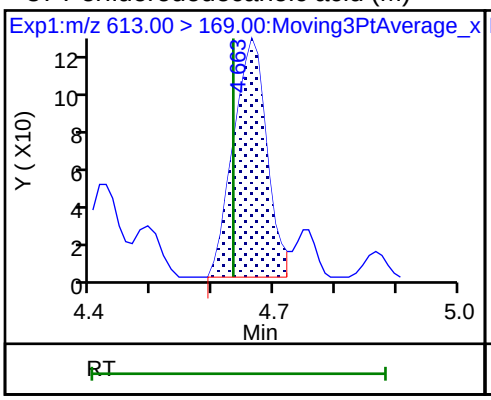
D 36 13C2 PFDoA



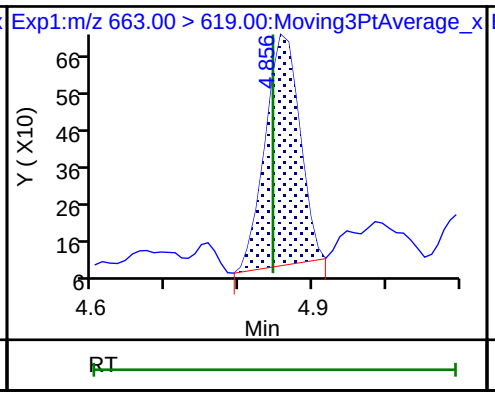
37 Perfluorododecanoic acid (M)



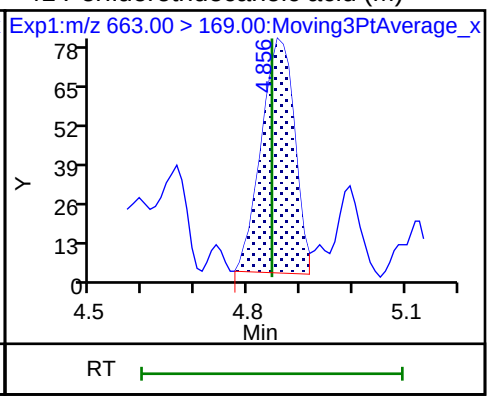
37 Perfluorododecanoic acid (M)



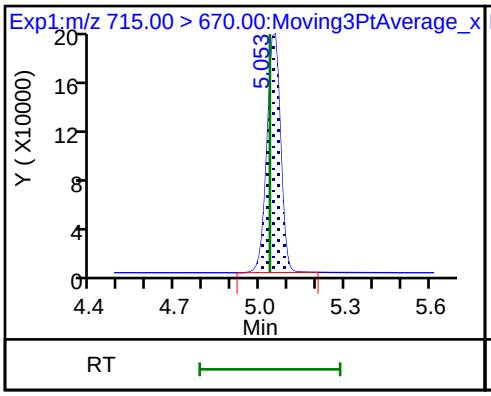
41 Perfluorotridecanoic acid



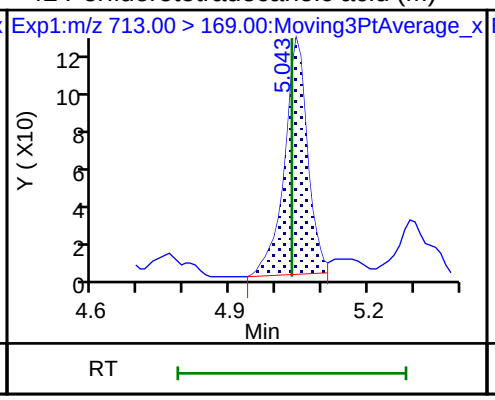
41 Perfluorotridecanoic acid (M)



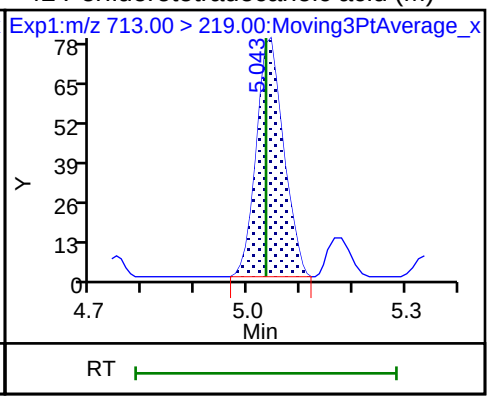
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

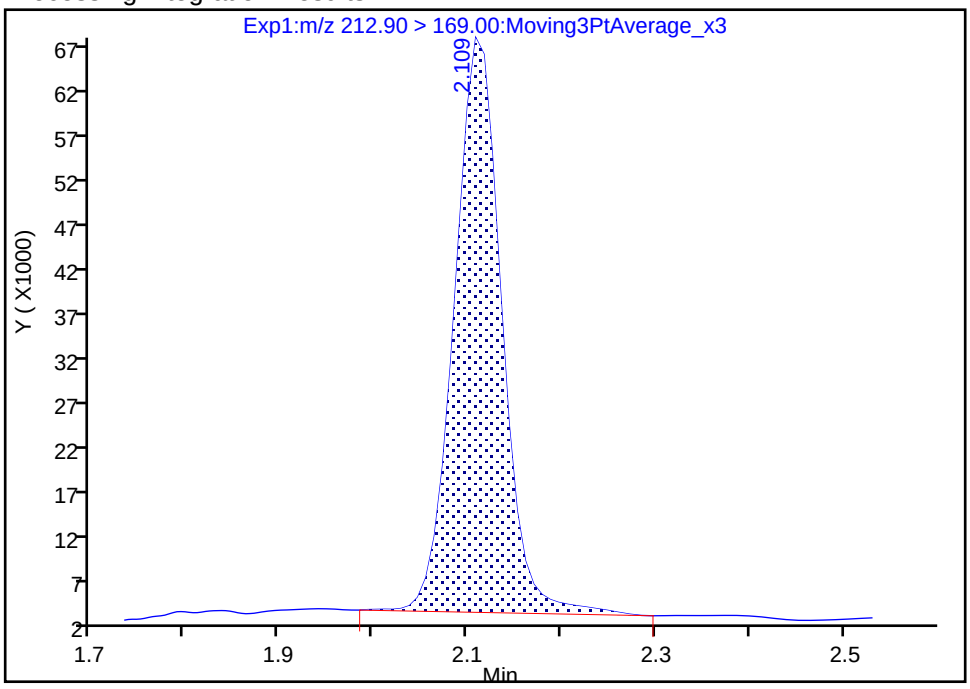
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

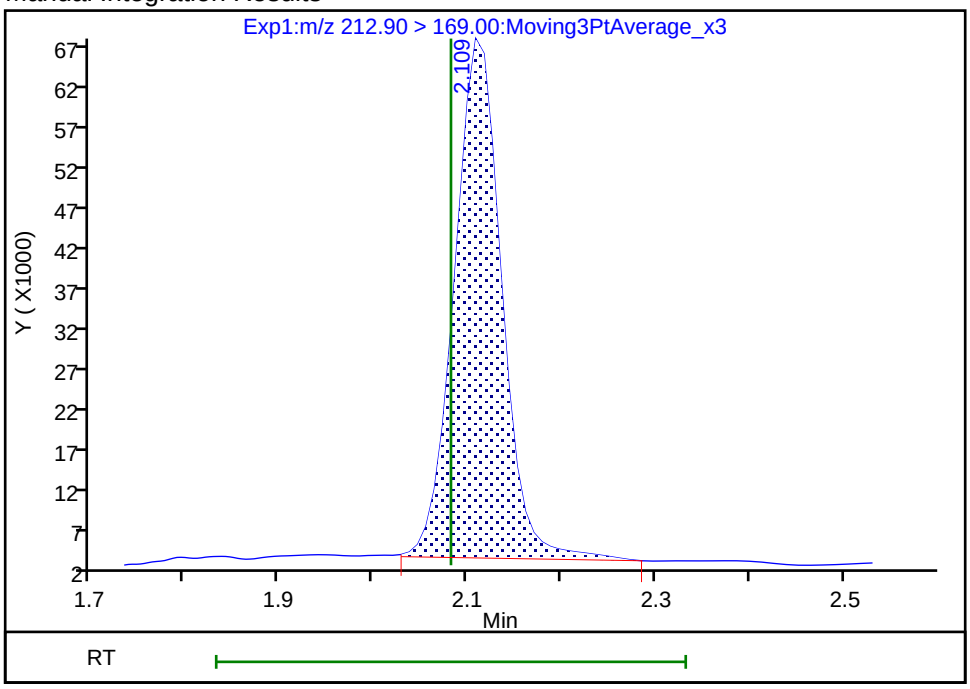
Processing Integration Results

RT: 2.11
Area: 227148
Amount: 0.208112
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 226662
Amount: 0.207667
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 08:53:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

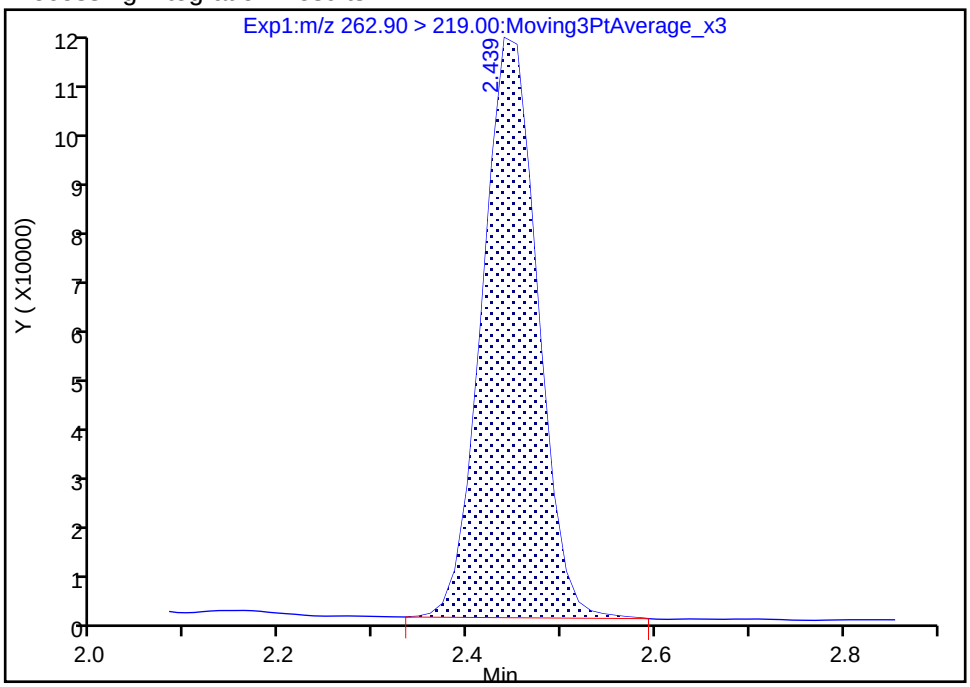
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Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7
Client ID:	MW-86-X3		
Operator ID:	lc812tech	ALS Bottle#:	11 Worklist Smp#: 14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

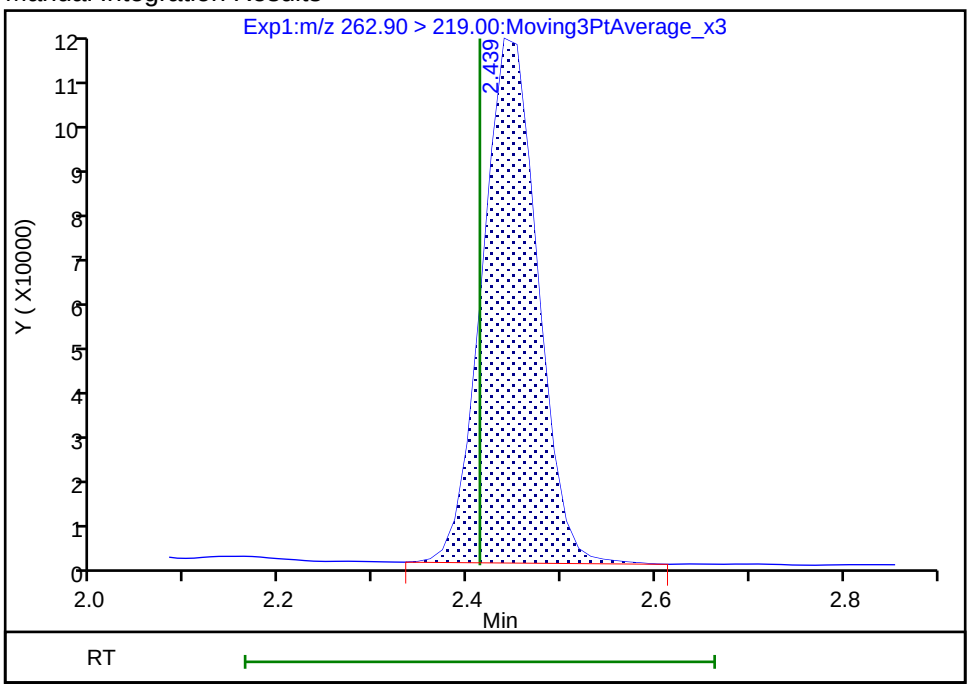
Processing Integration Results

RT: 2.44
Area: 462434
Amount: 0.455113
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 463277
Amount: 0.455942
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:51:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

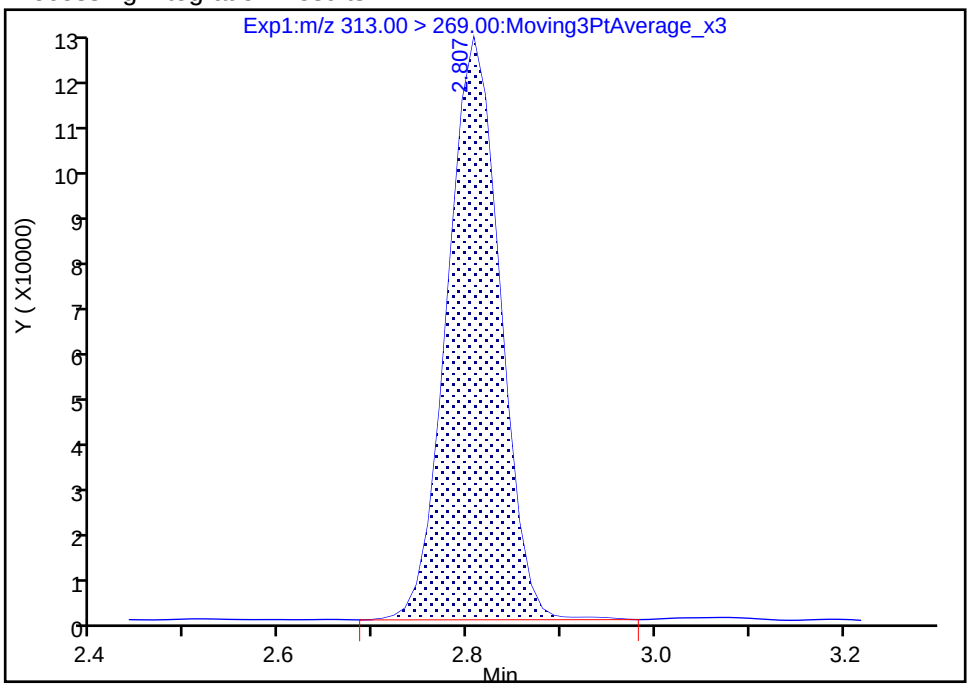
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

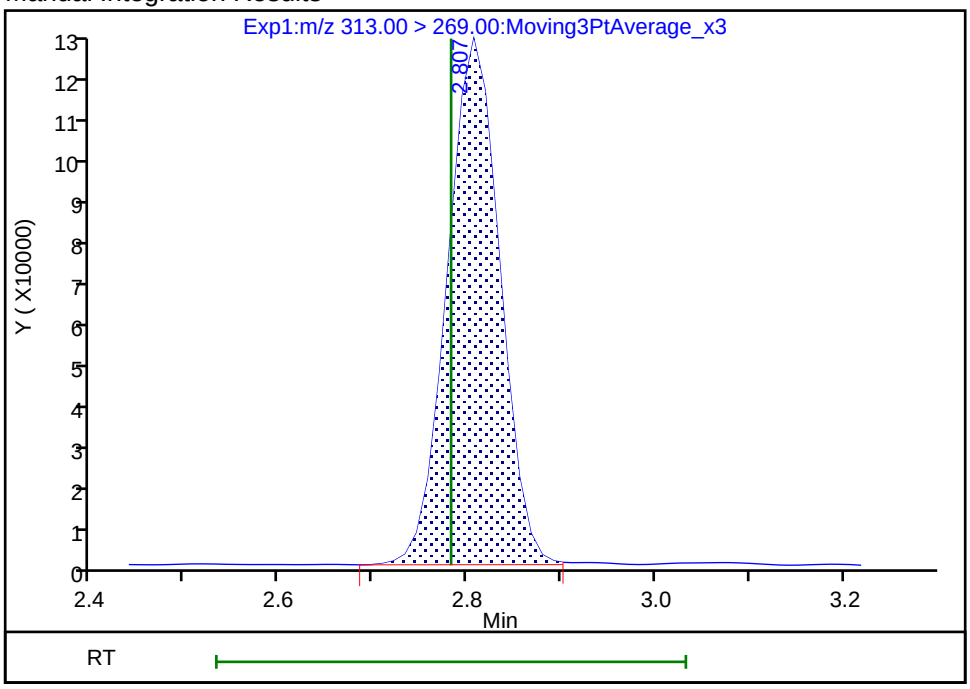
Processing Integration Results

RT: 2.81
Area: 502420
Amount: 0.455924
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 500756
Amount: 0.454414
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:51:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

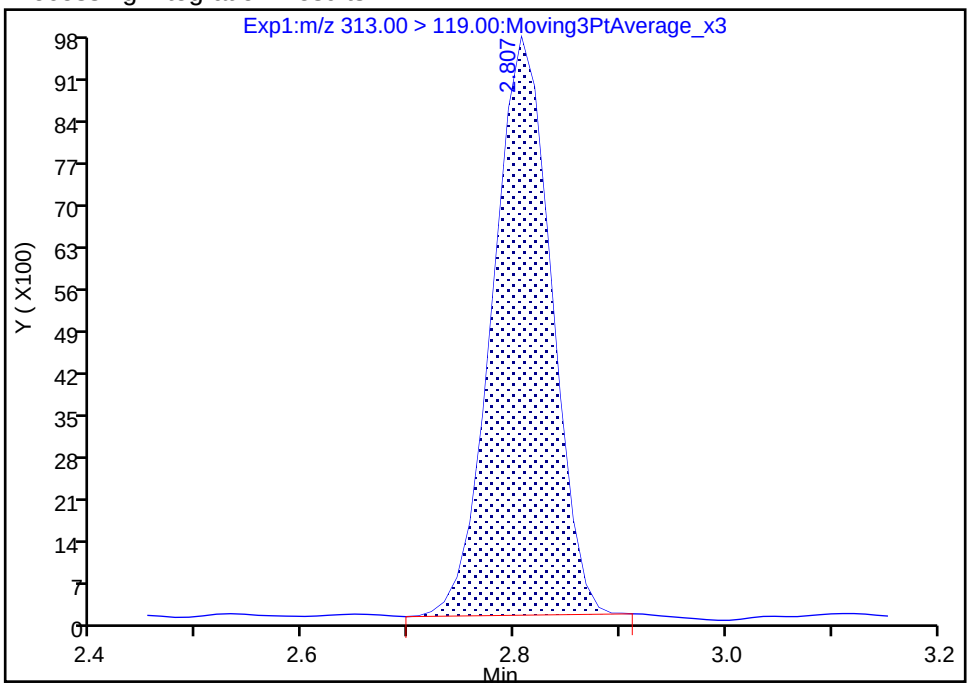
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

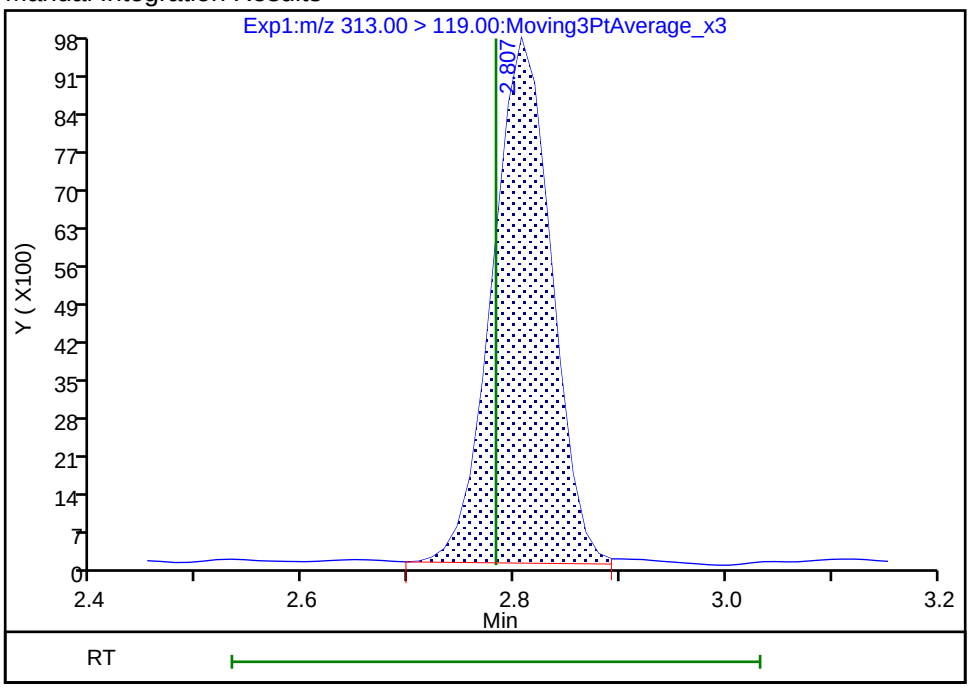
Processing Integration Results

RT: 2.81
Area: 37413
Amount: 0.455924
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 37888
Amount: 0.454414
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:51:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

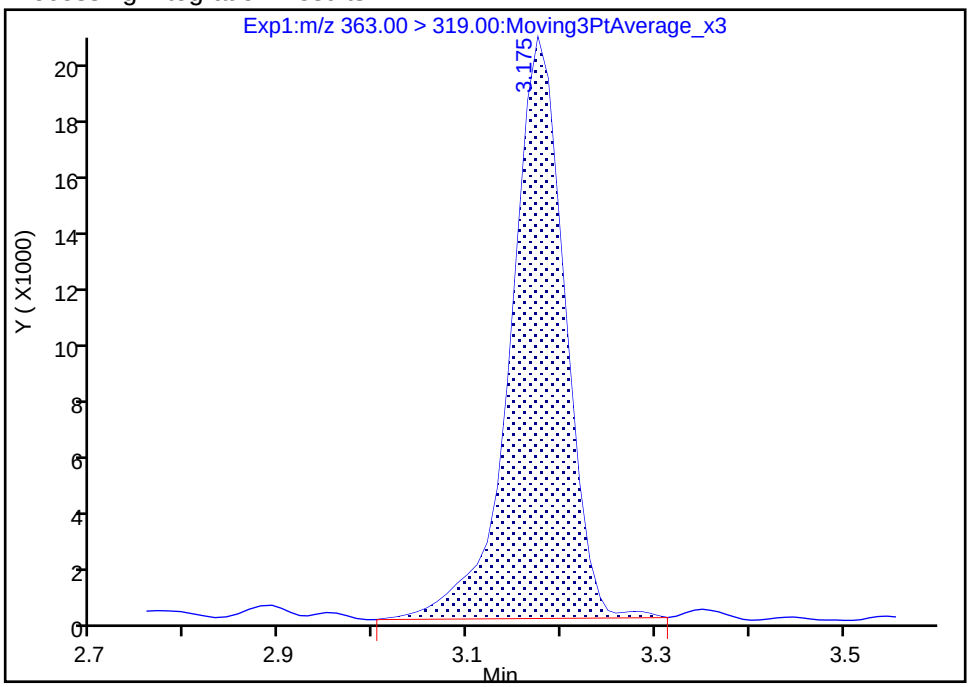
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

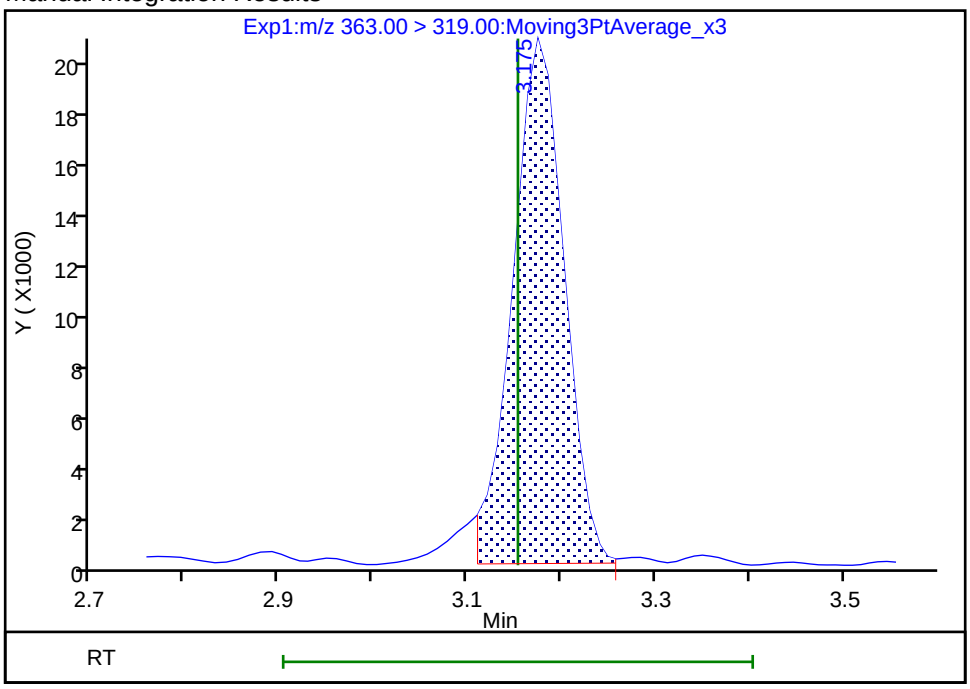
Processing Integration Results

RT: 3.17
Area: 80917
Amount: 0.069022
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 76502
Amount: 0.065256
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:52:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

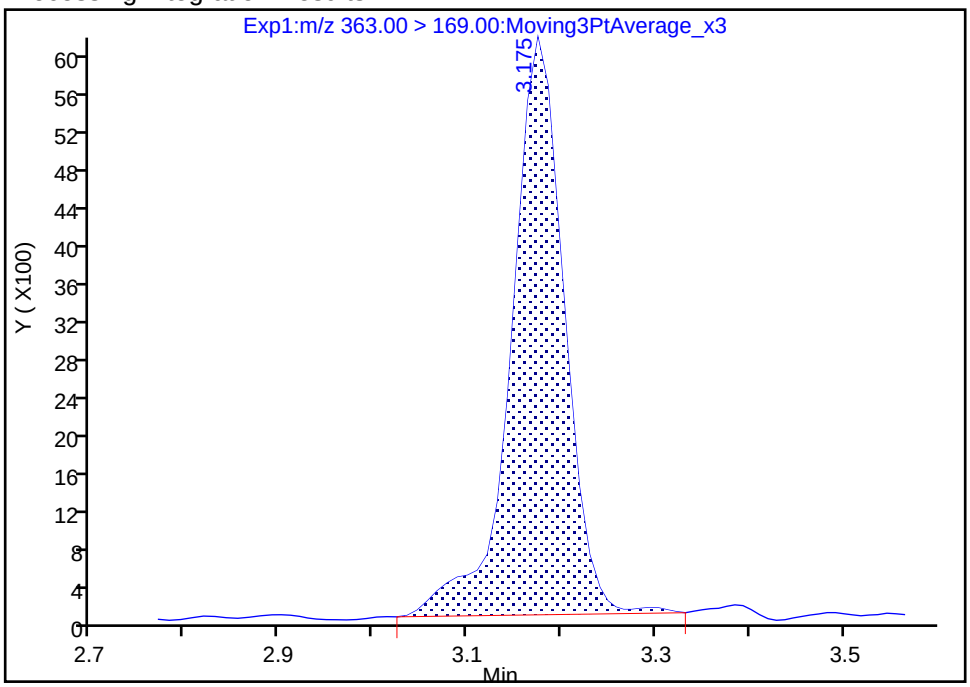
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

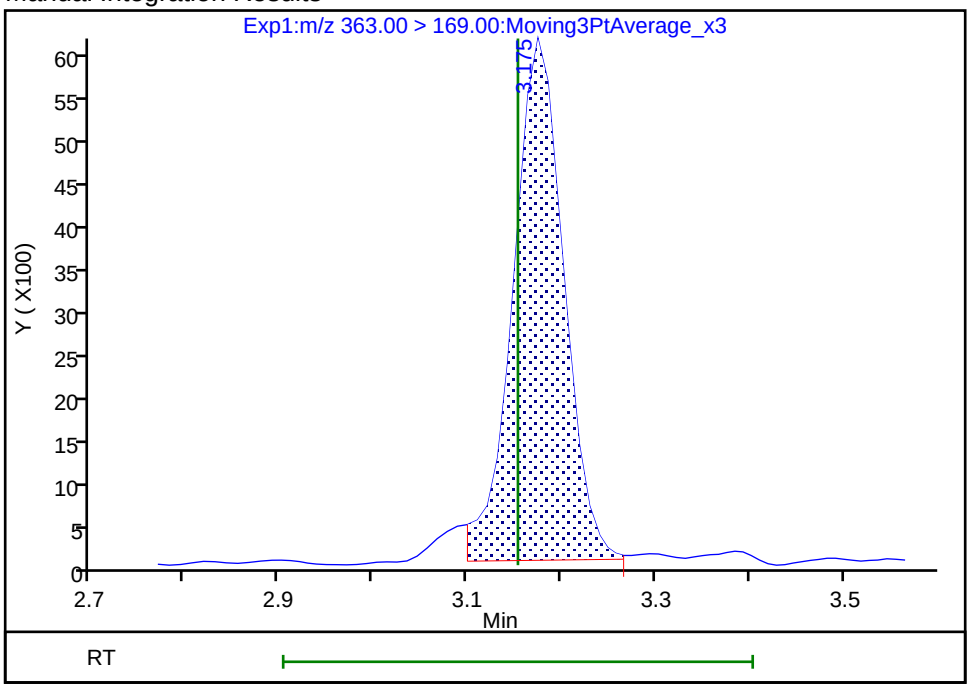
Processing Integration Results

RT: 3.17
Area: 23594
Amount: 0.069022
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 22511
Amount: 0.065256
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:52:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

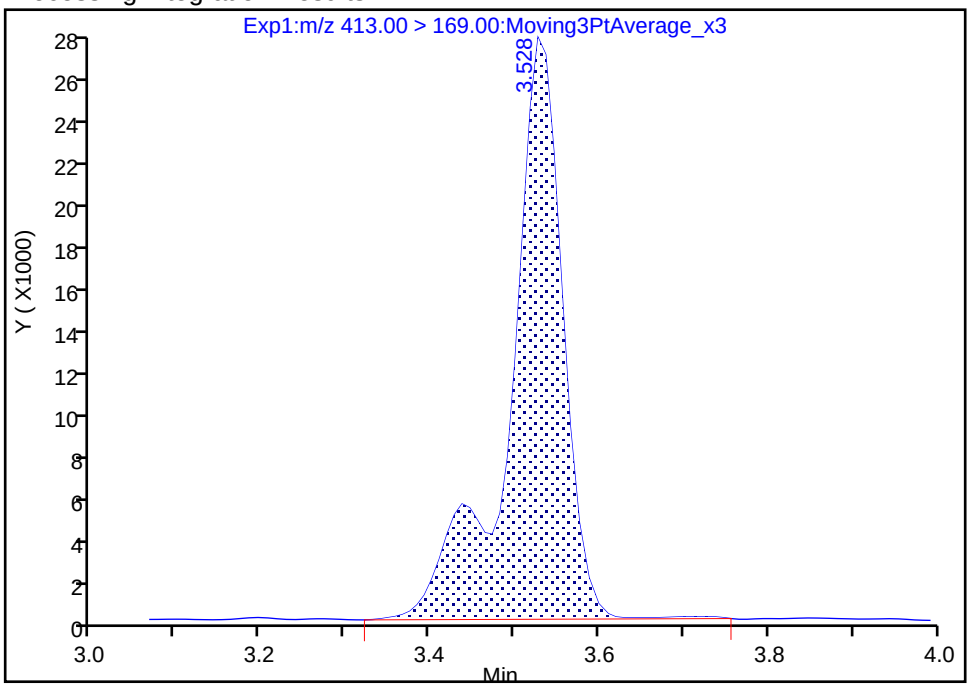
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

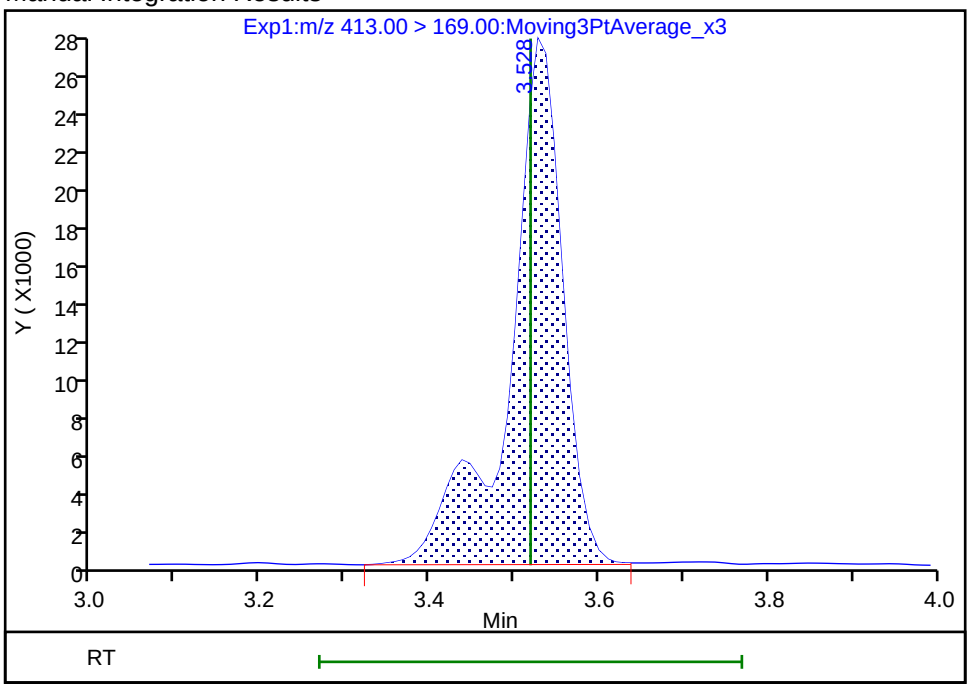
Processing Integration Results

RT: 3.53
Area: 119306
Amount: 0.228787
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 119074
Amount: 0.228787
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:53:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

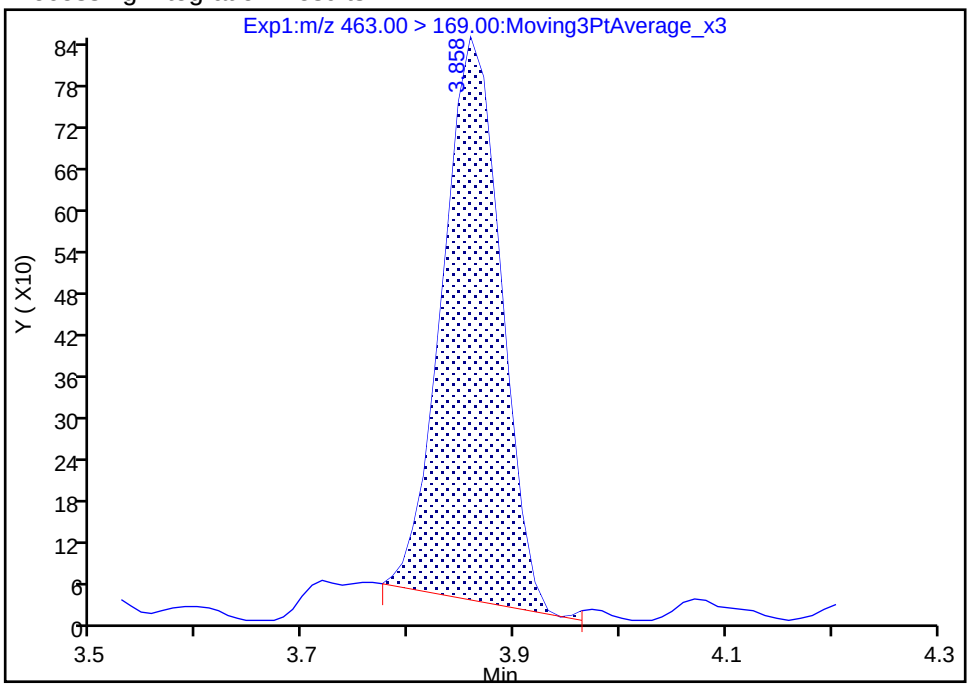
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

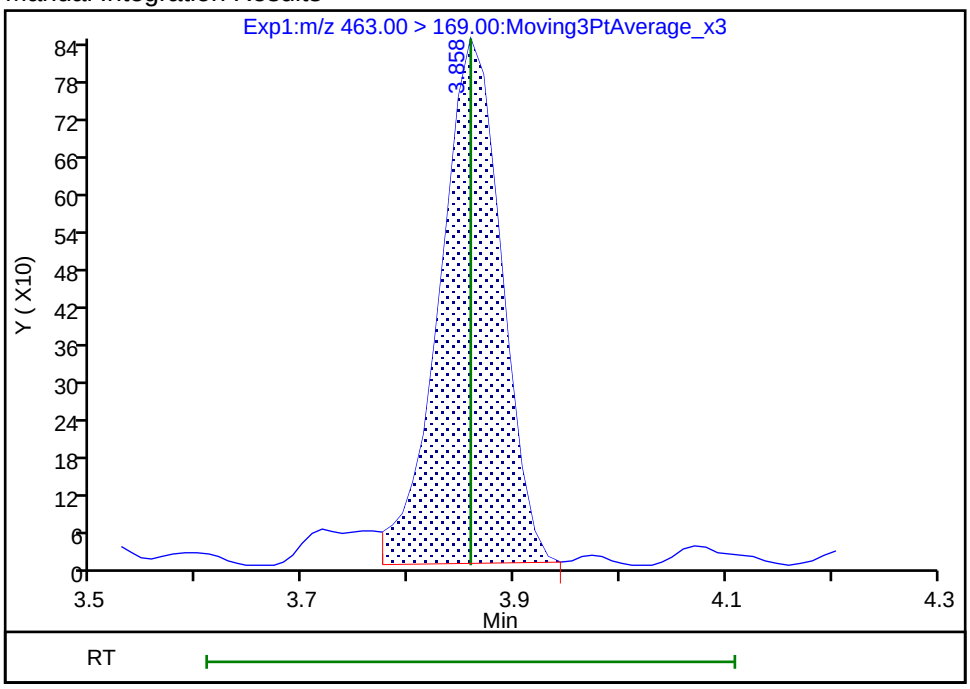
Processing Integration Results

RT: 3.86
Area: 3149
Amount: 0.026265
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 3409
Amount: 0.028105
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:54:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

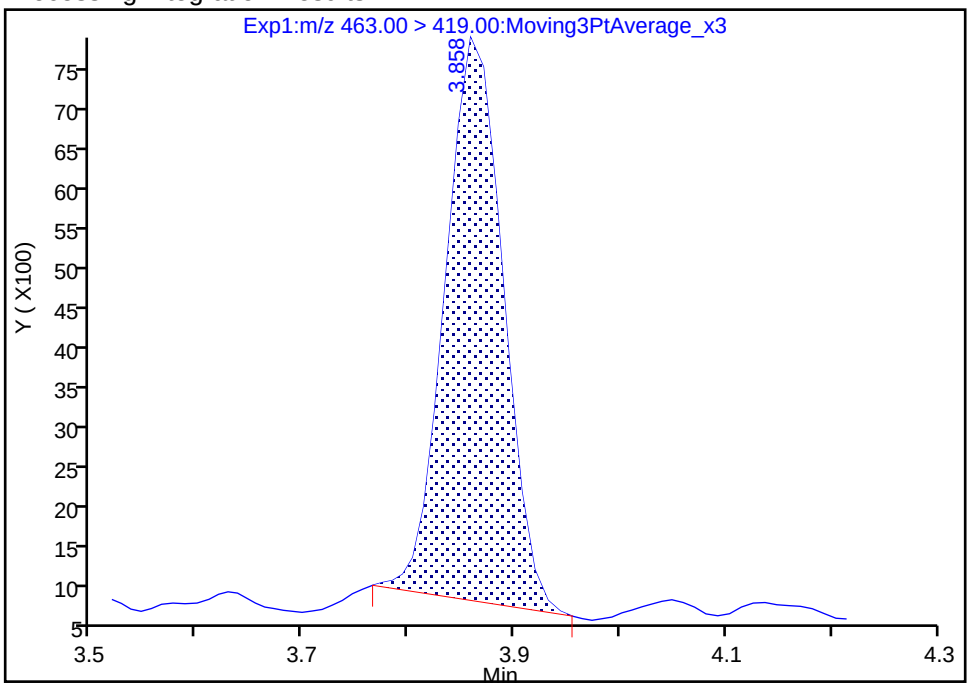
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

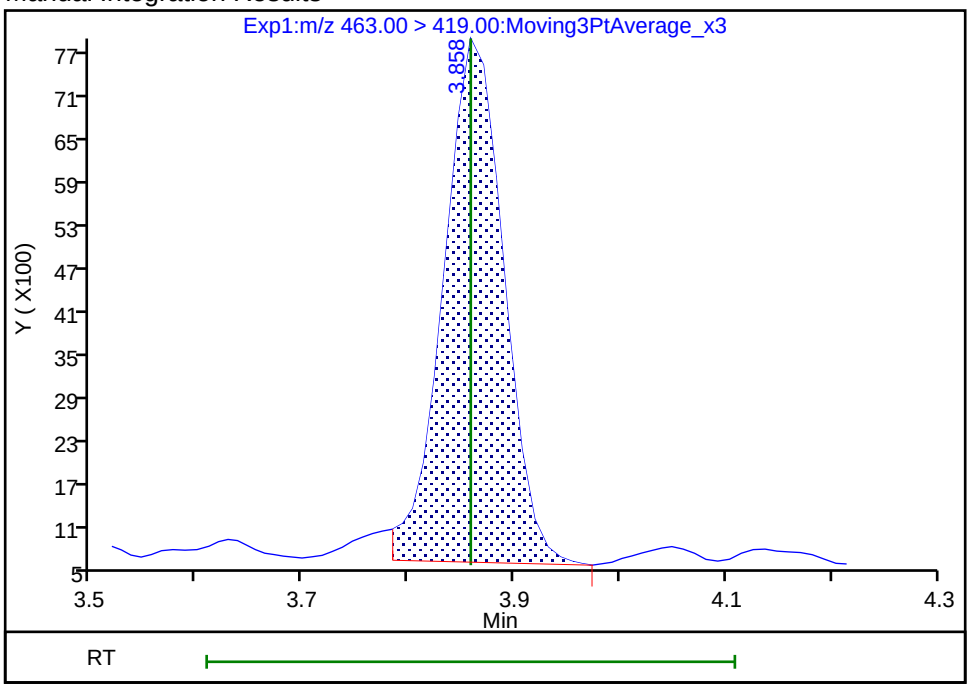
Processing Integration Results

RT: 3.86
Area: 27111
Amount: 0.026265
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 29010
Amount: 0.028105
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:54:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

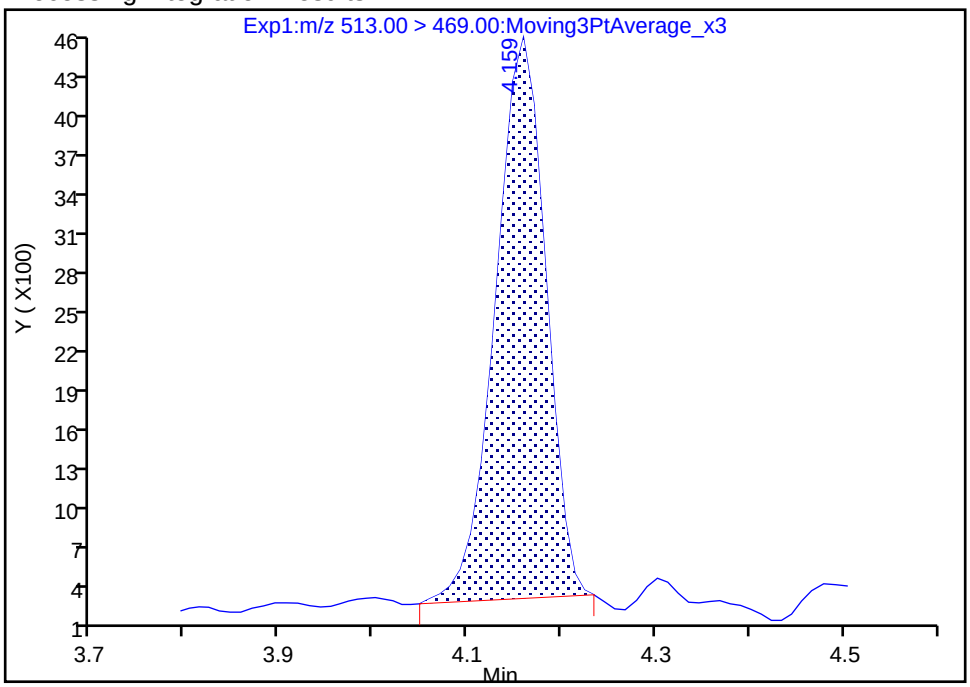
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

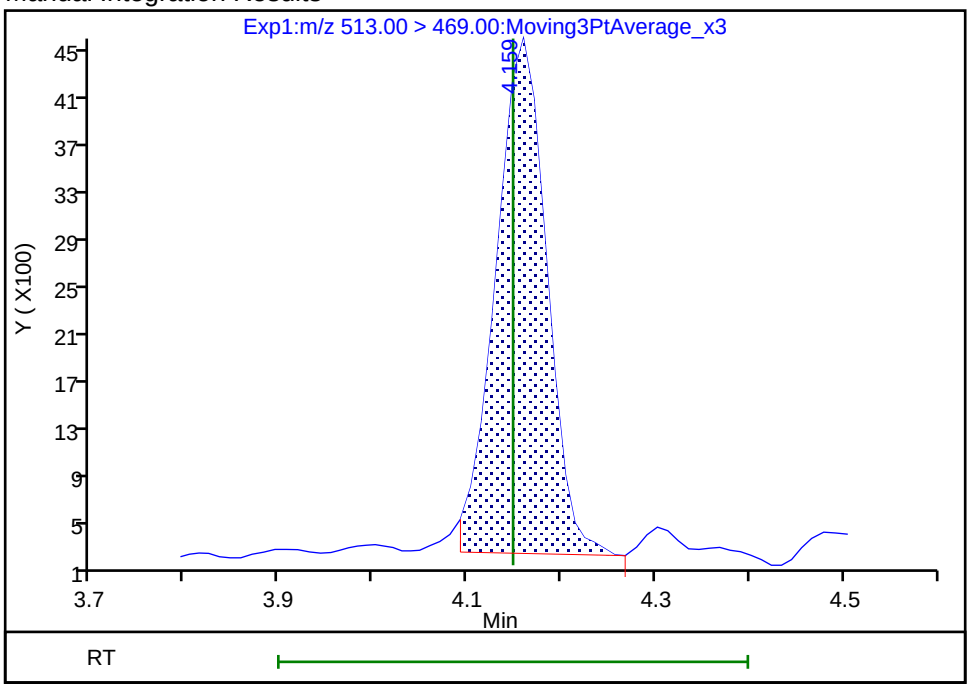
Processing Integration Results

RT: 4.16
Area: 15766
Amount: 0.015422
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 16208
Amount: 0.015855
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:25:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

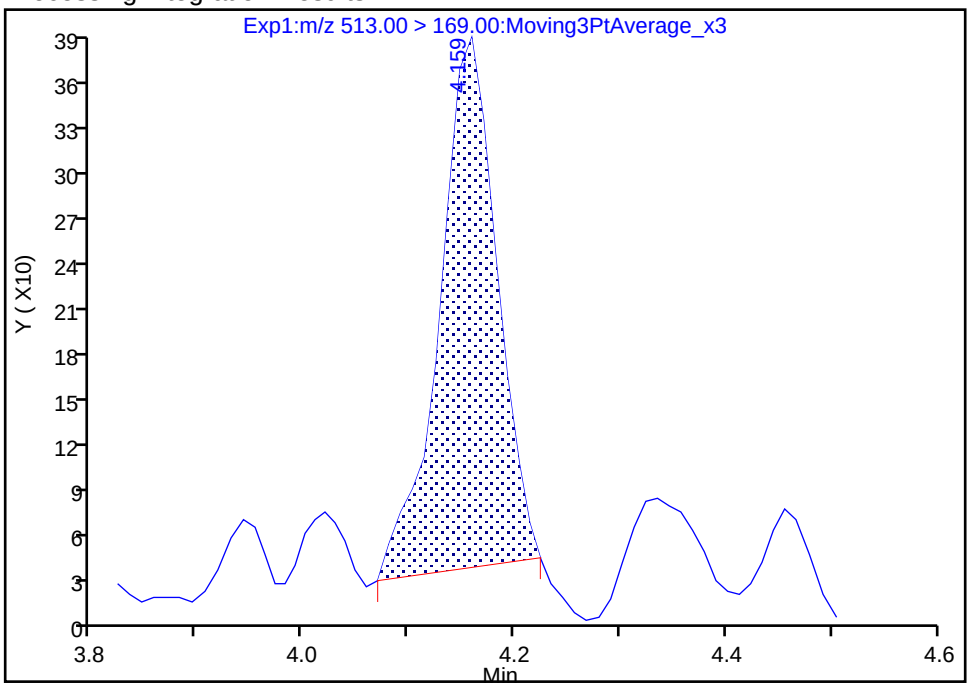
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

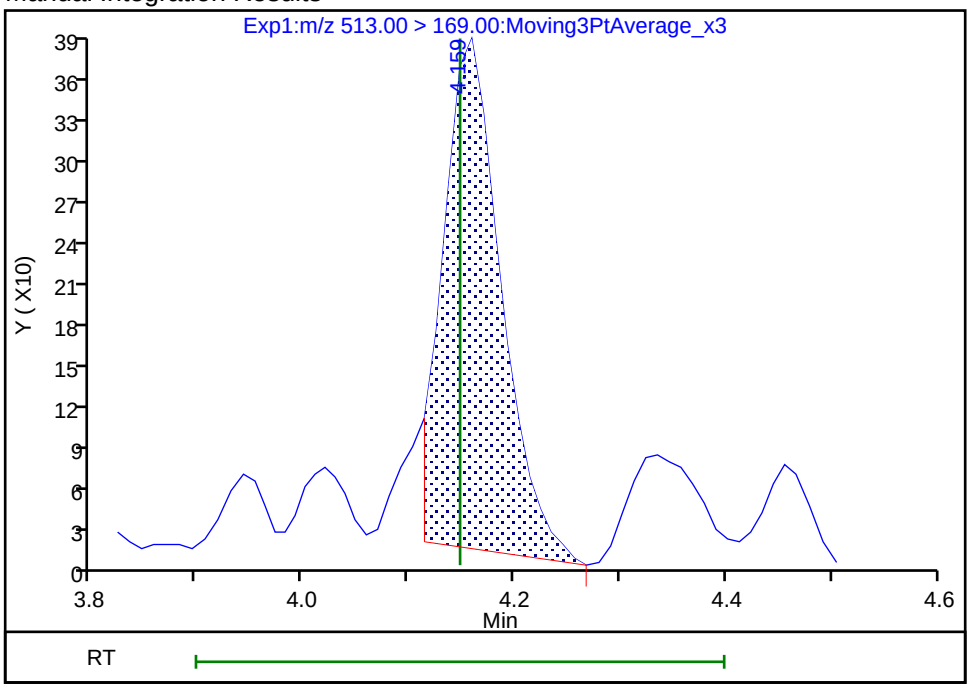
Processing Integration Results

RT: 4.16
Area: 1311
Amount: 0.015422
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 1401
Amount: 0.015855
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:25:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

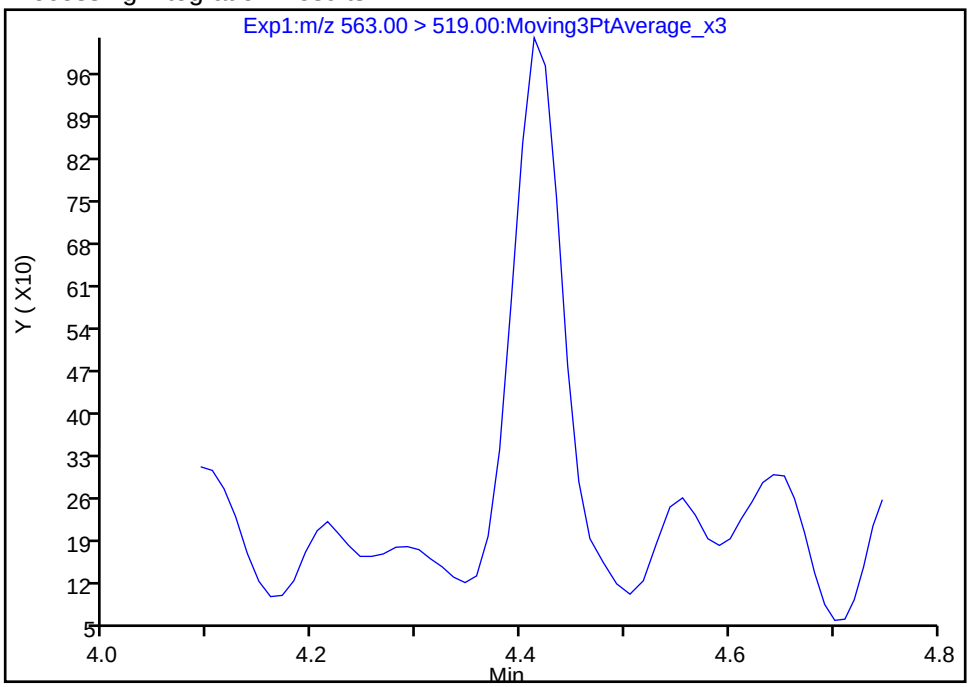
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

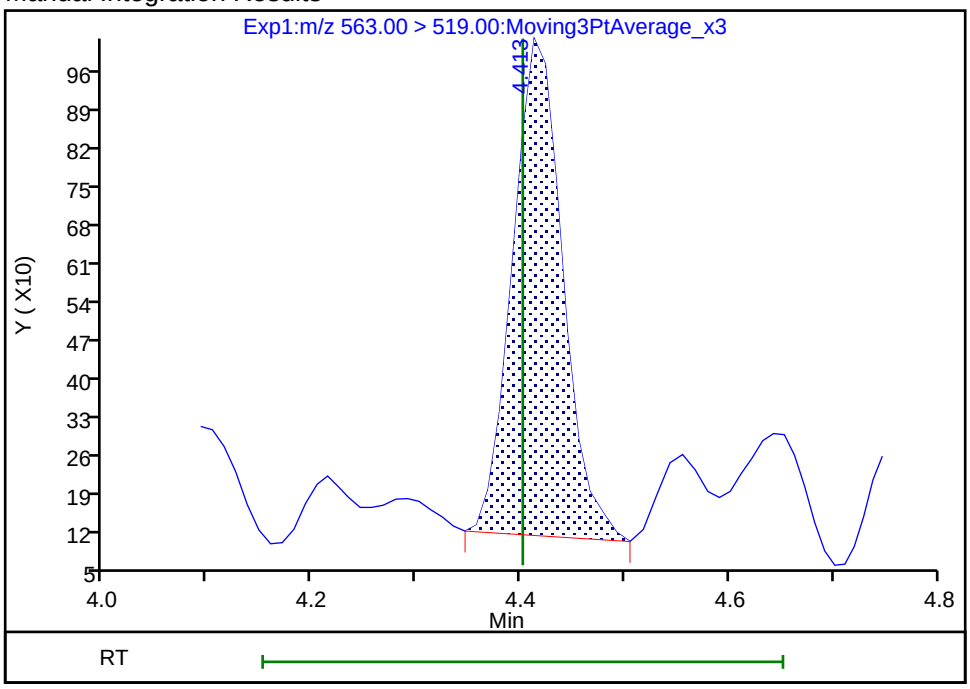
Processing Integration Results

Not Detected
Expected RT: 4.40



Manual Integration Results

RT: 4.41
Area: 3016
Amount: 0.004676
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:55:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

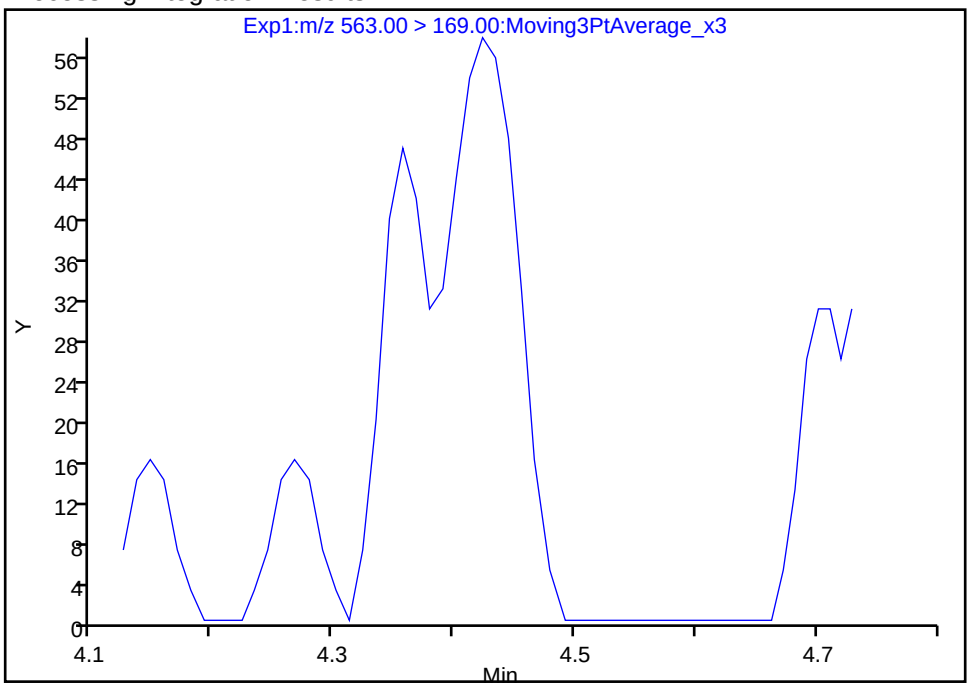
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

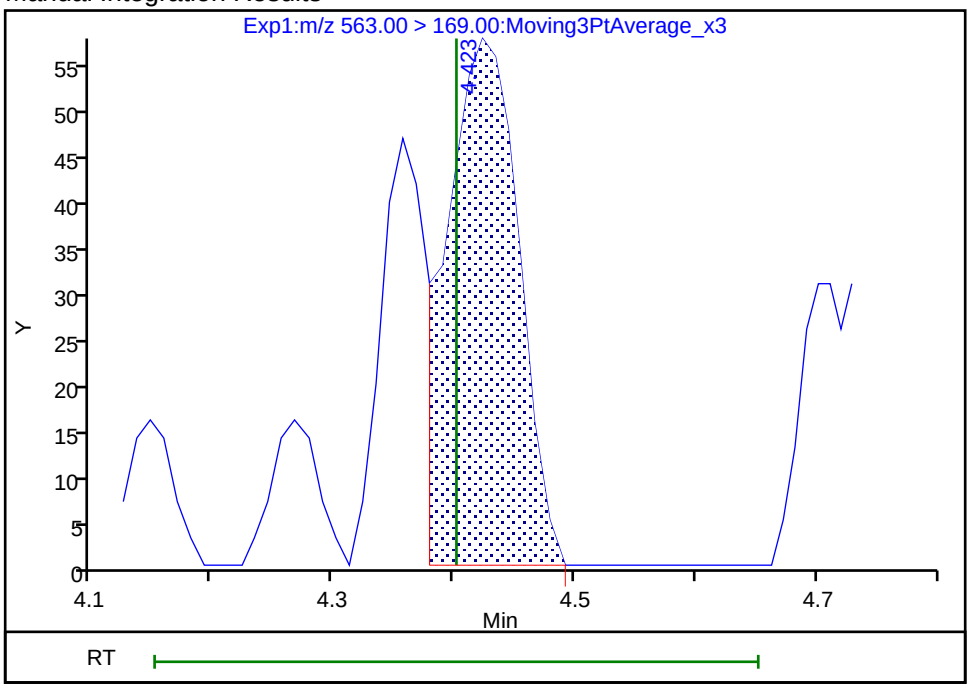
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.42
Area: 237
Amount: 0.004676
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:55:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

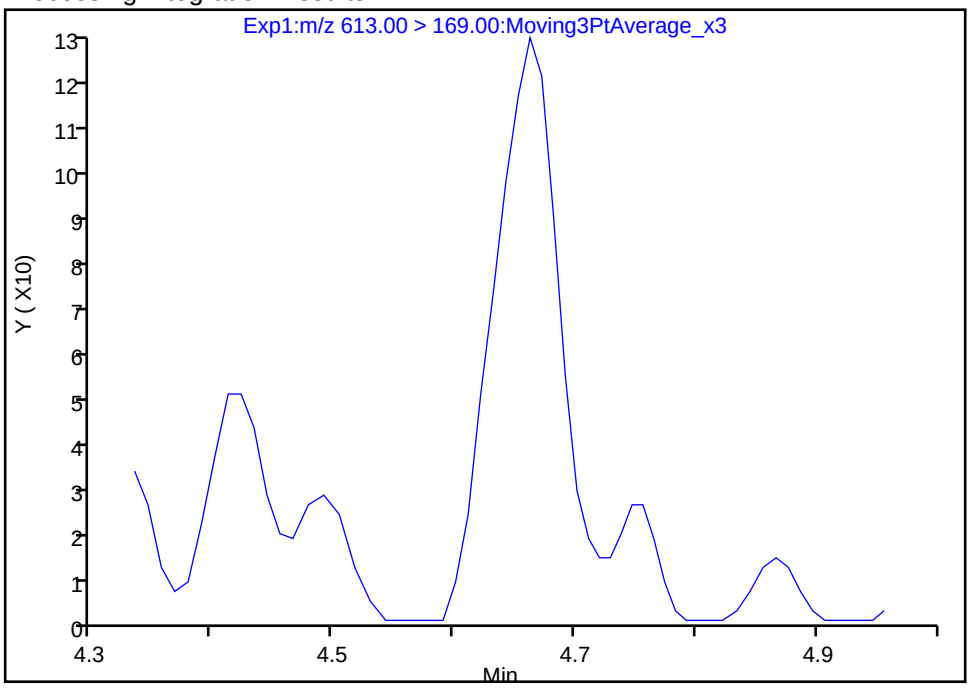
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d		
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7
Client ID:	MW-86-X3		
Operator ID:	lc812tech	ALS Bottle#:	11 Worklist Smp#: 14
Injection Vol:	20.0 ul	Dil. Factor:	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

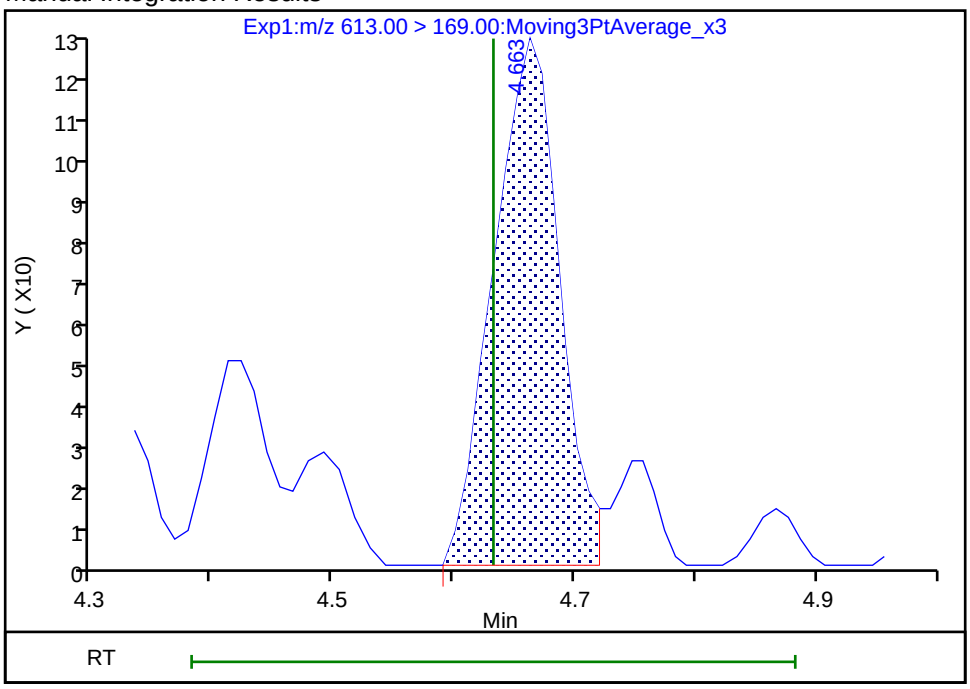
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.66
Area: 456
Amount: 0.005305
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:56:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

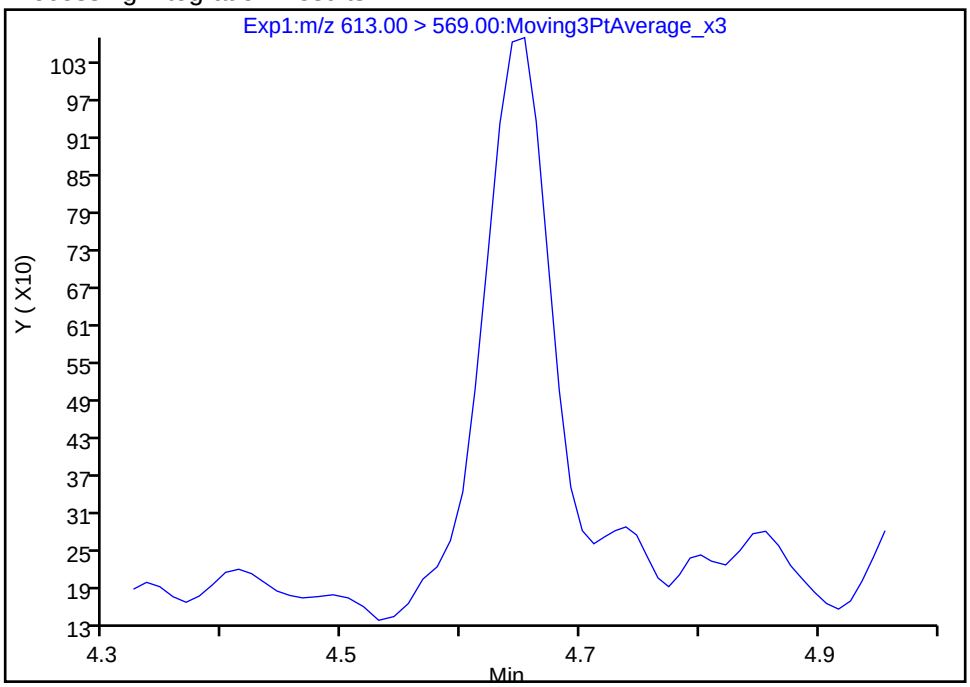
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

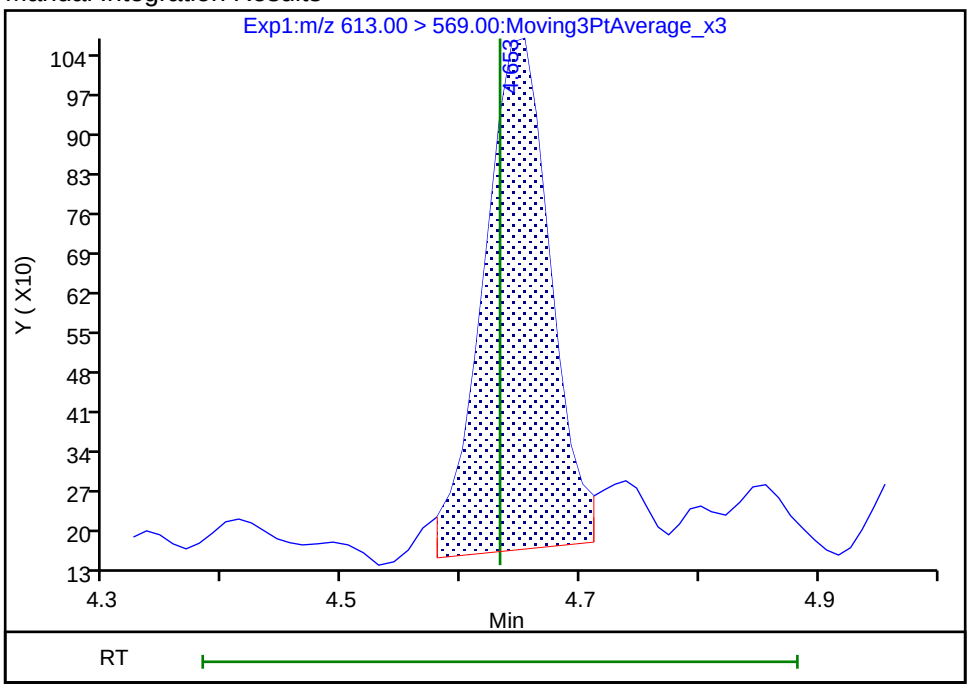
Processing Integration Results

Not Detected
Expected RT: 4.63



Manual Integration Results

RT: 4.65
Area: 3529
Amount: 0.005305
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:56:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

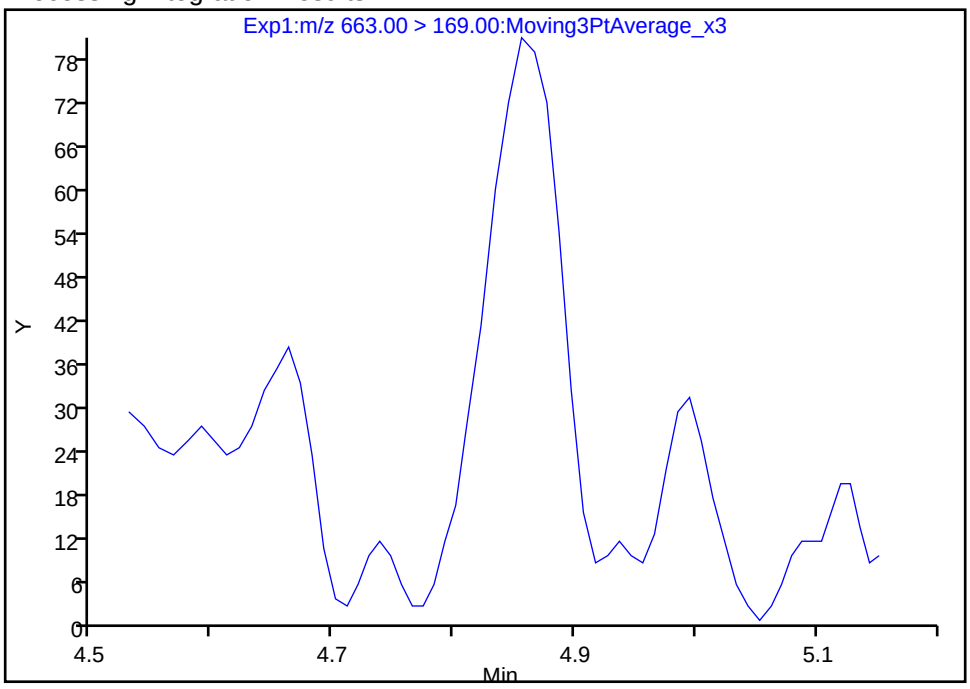
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

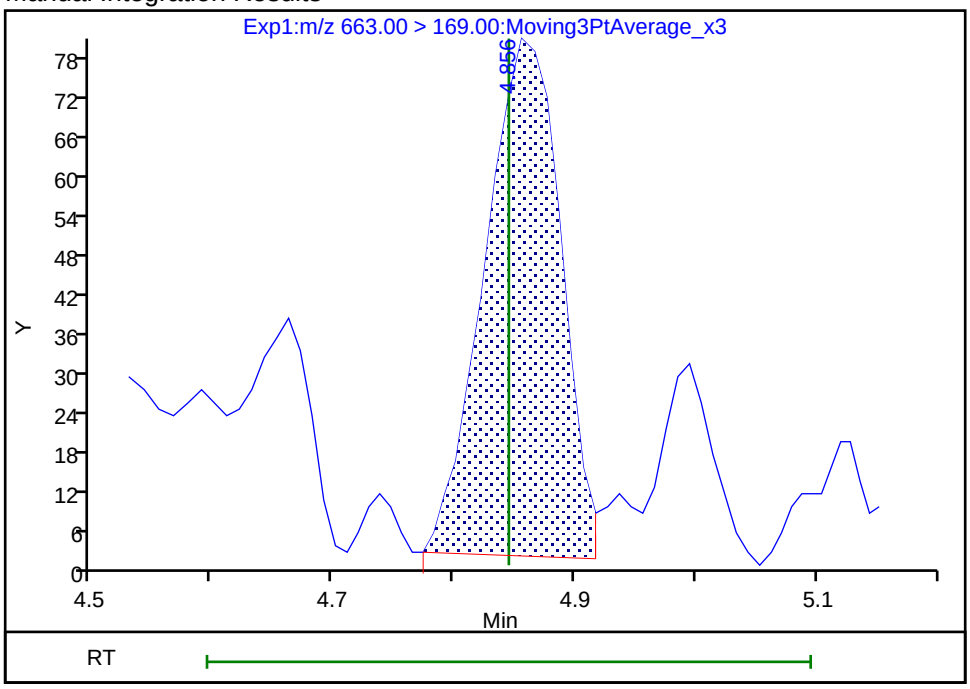
Processing Integration Results

Not Detected
Expected RT: 4.85



Manual Integration Results

RT: 4.86
Area: 348
Amount: 0.003552
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:56:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

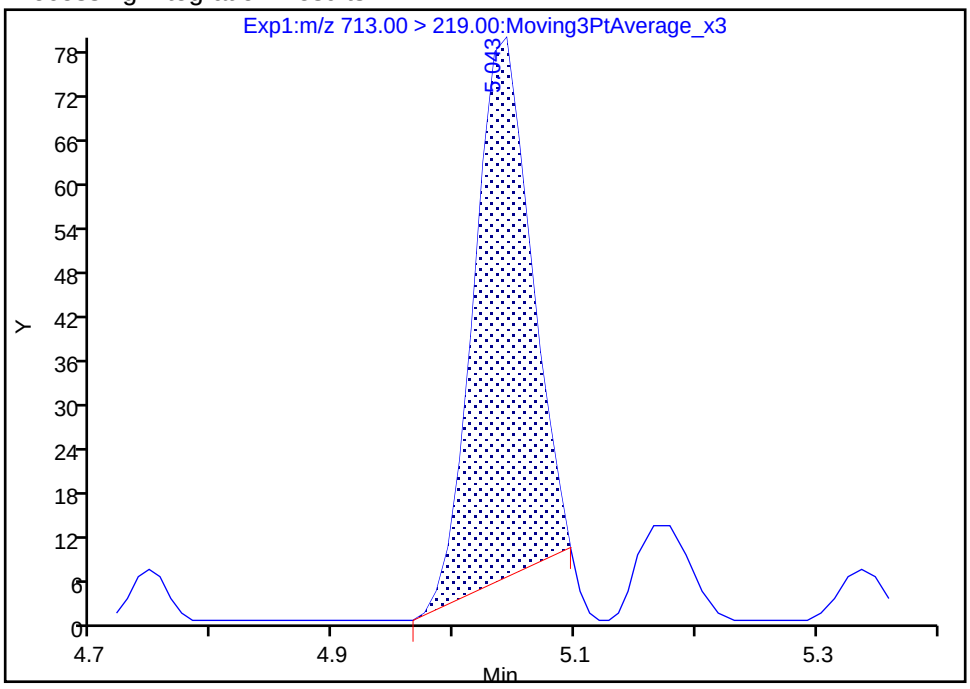
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d		
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7
Client ID:	MW-86-X3		
Operator ID:	lc812tech	ALS Bottle#:	11 Worklist Smp#: 14
Injection Vol:	20.0 ul	Dil. Factor:	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

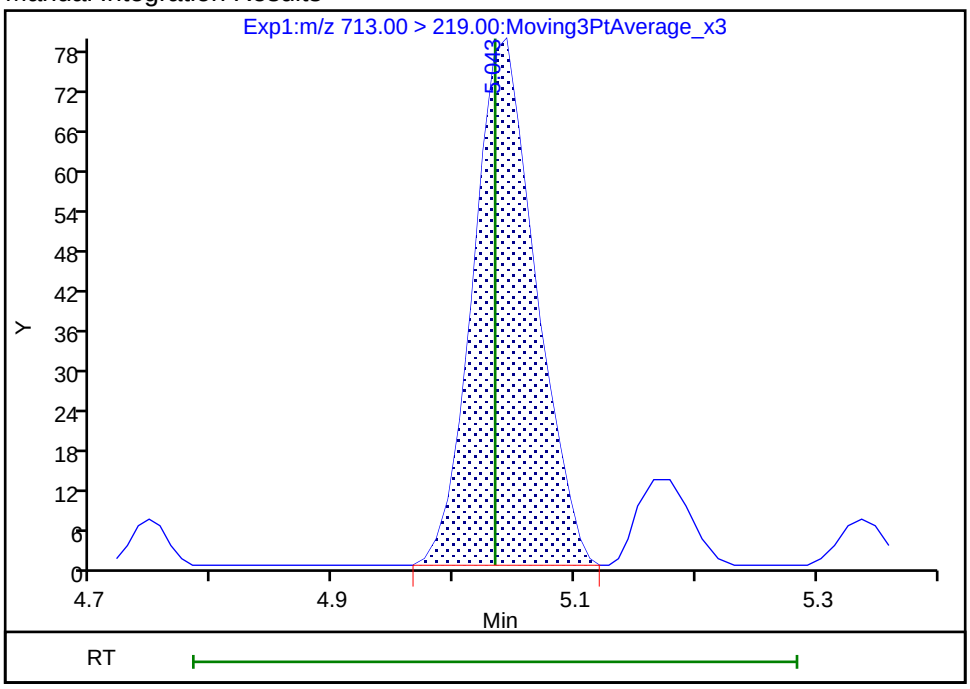
Processing Integration Results

RT: 5.04
Area: 244
Amount: 0.002803
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 288
Amount: 0.004705
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:57:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

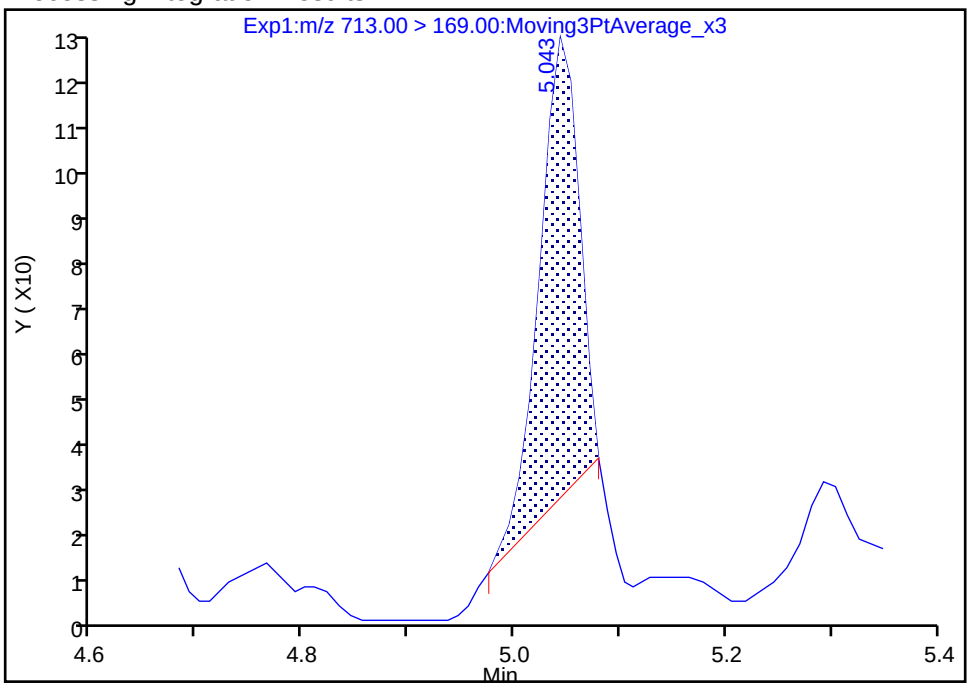
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

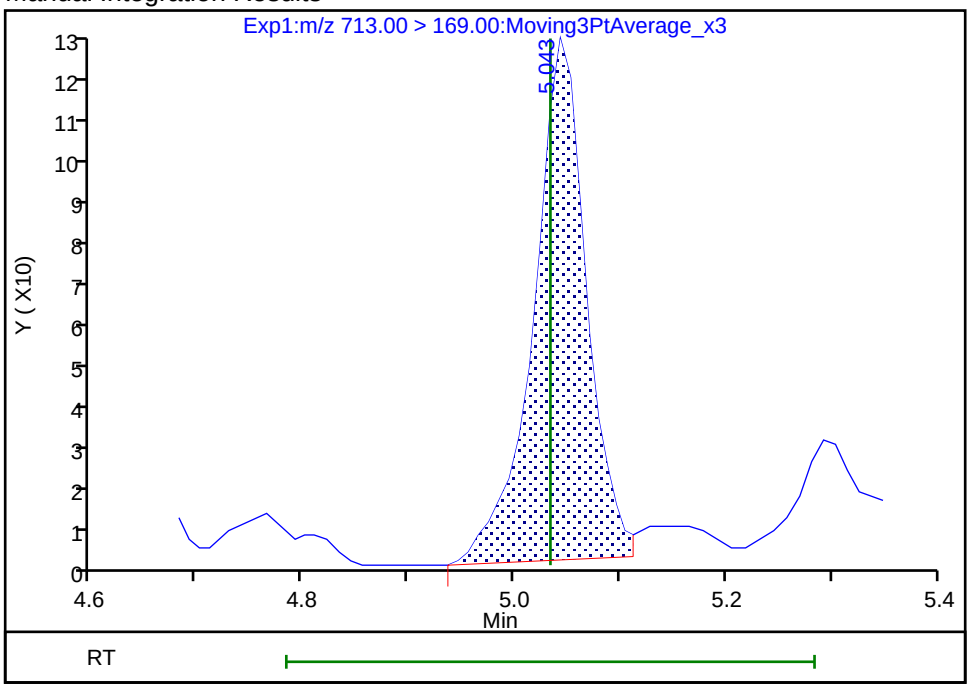
Processing Integration Results

RT: 5.04
Area: 249
Amount: 0.002803
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 418
Amount: 0.004705
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:57:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

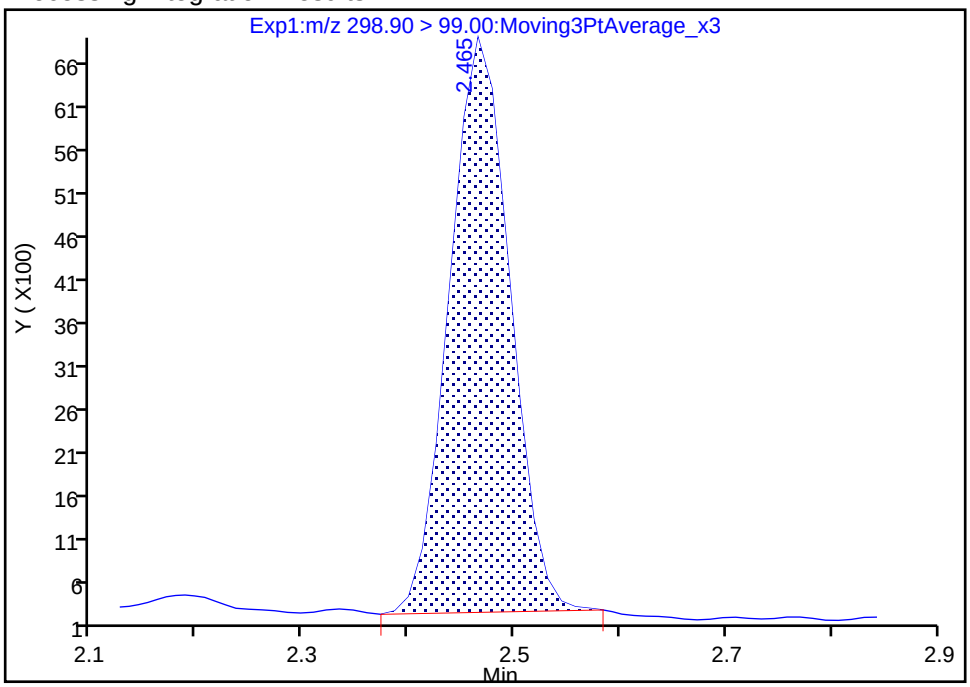
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

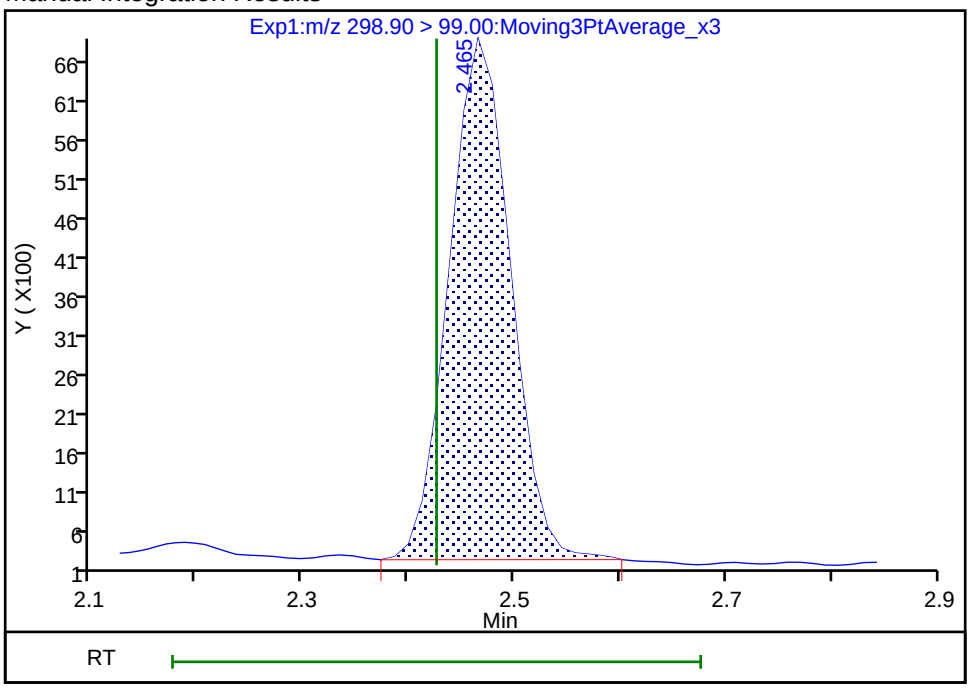
Processing Integration Results

RT: 2.47
Area: 26162
Amount: 0.047627
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 26493
Amount: 0.047627
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:51:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

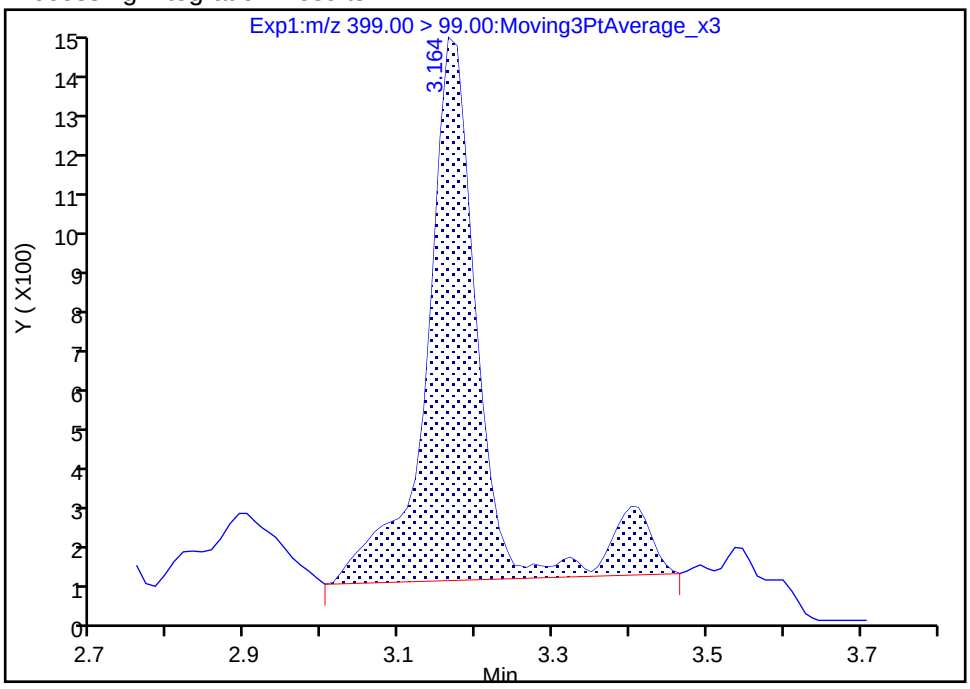
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

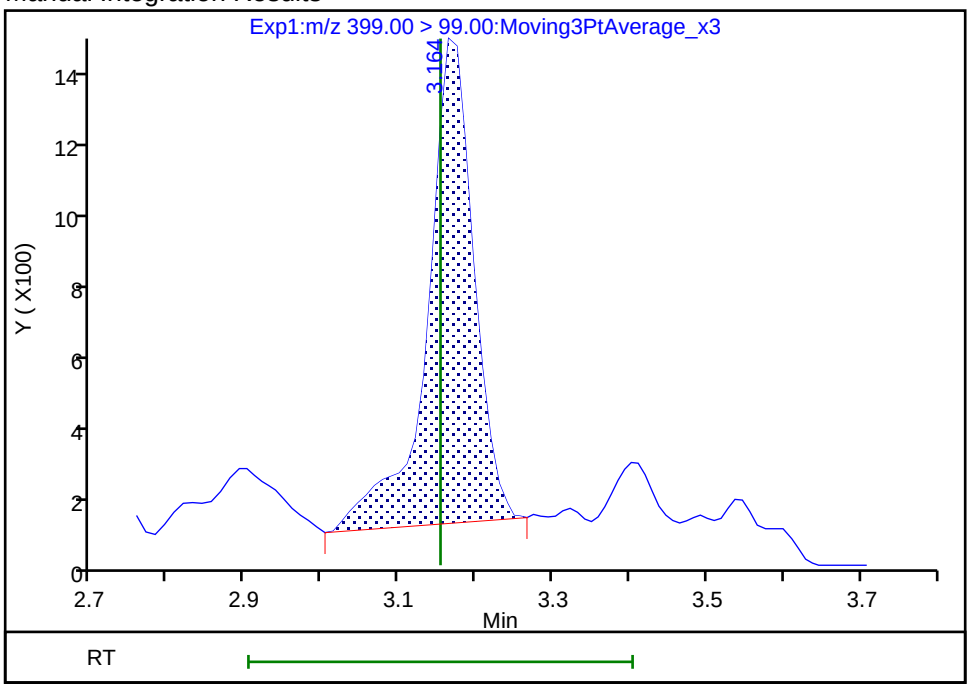
Processing Integration Results

RT: 3.16
Area: 6643
Amount: 0.028173
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 5691
Amount: 0.027833
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:51:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

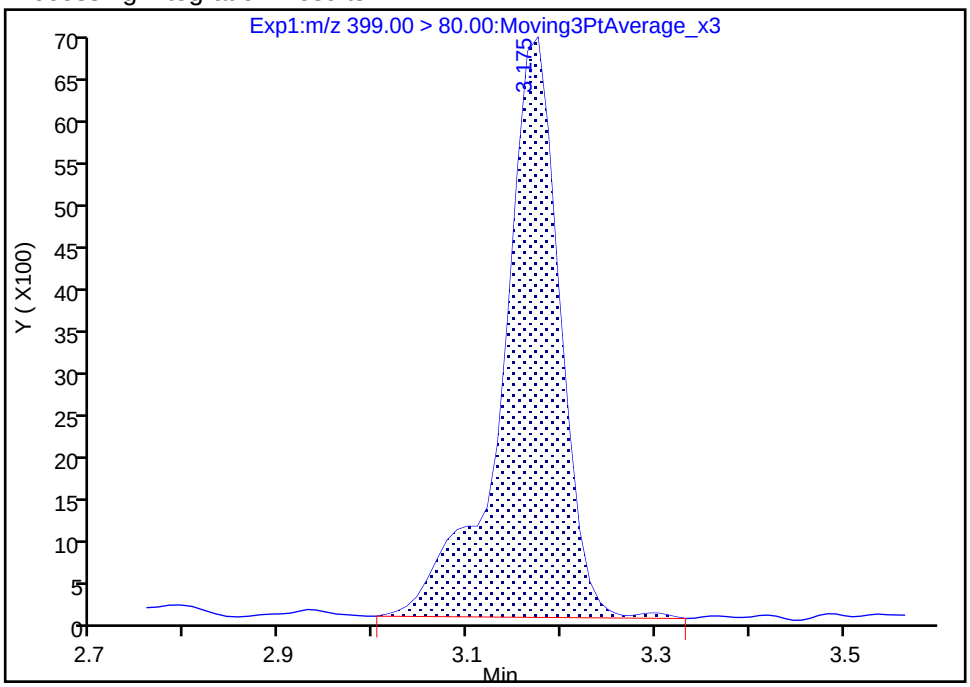
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

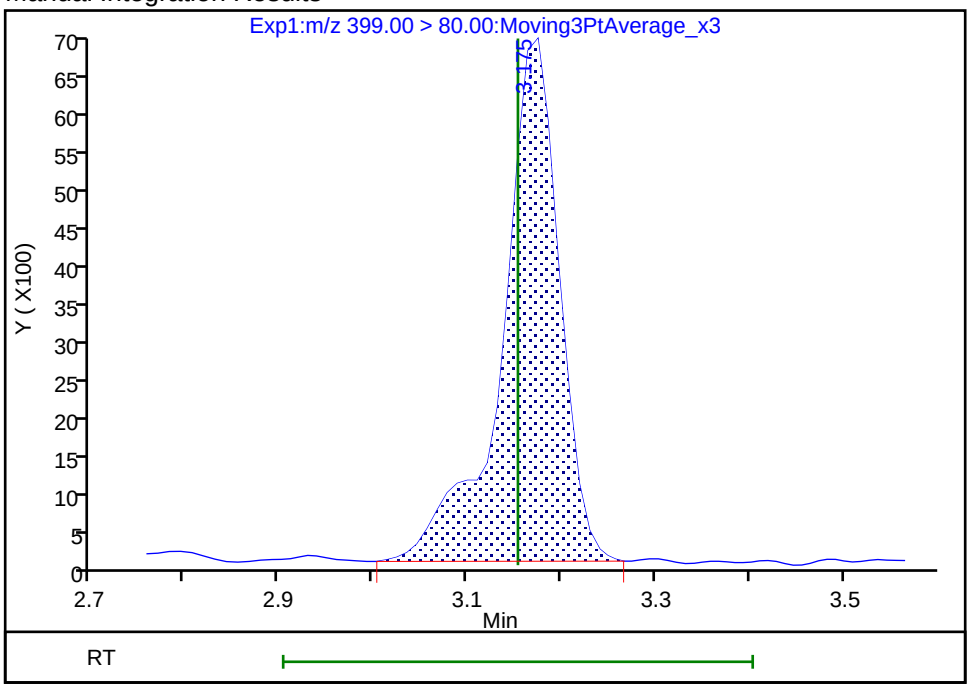
Processing Integration Results

RT: 3.17
Area: 29378
Amount: 0.028173
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 29023
Amount: 0.027833
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:51:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

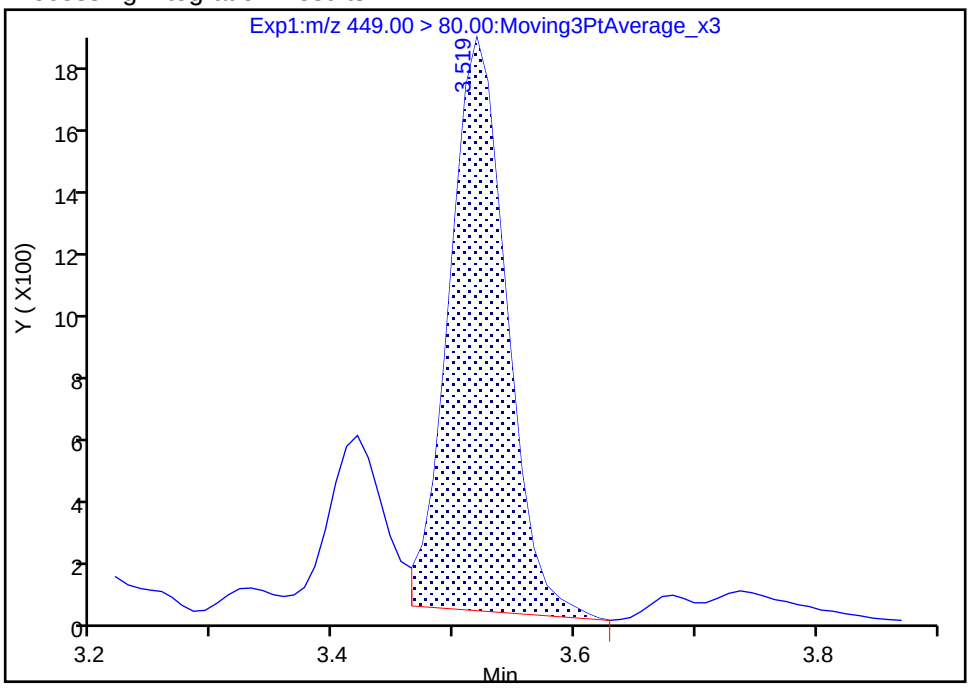
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

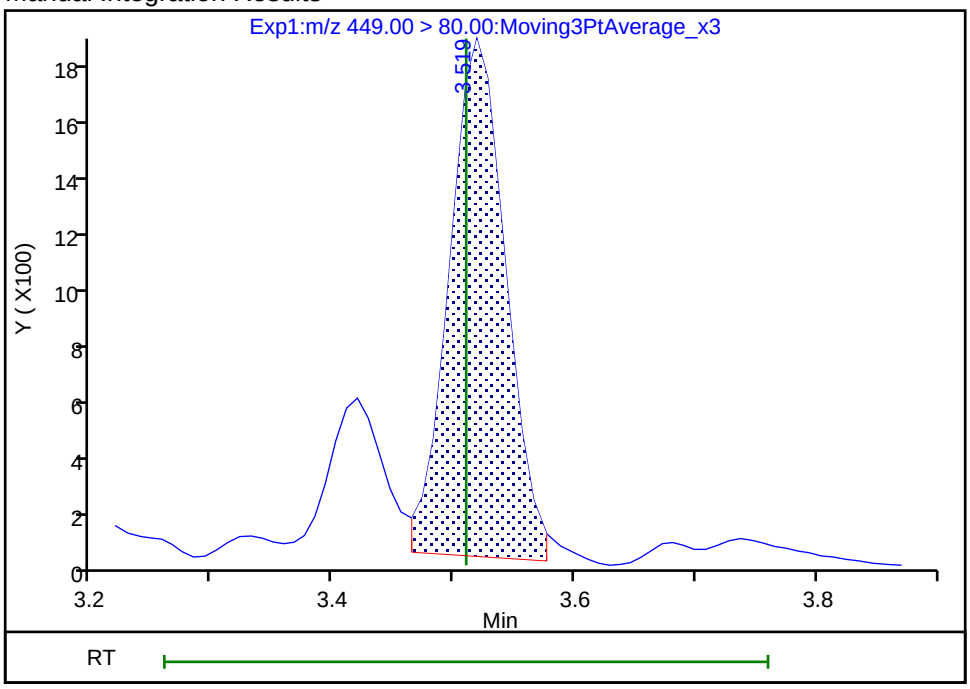
Processing Integration Results

RT: 3.52
Area: 6014
Amount: 0.008642
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 5905
Amount: 0.008485
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:23:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

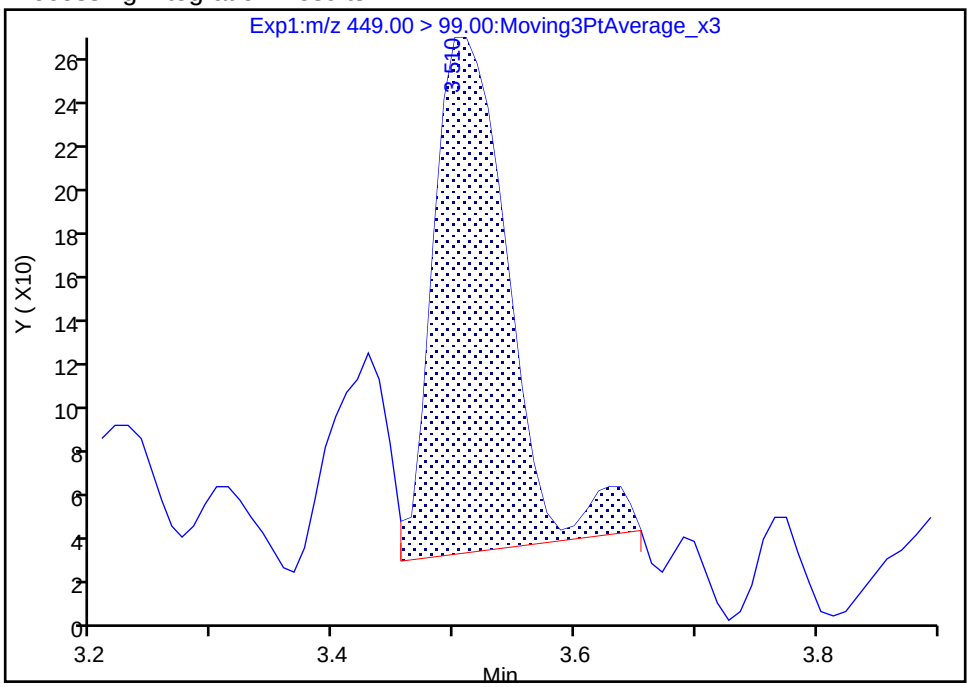
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

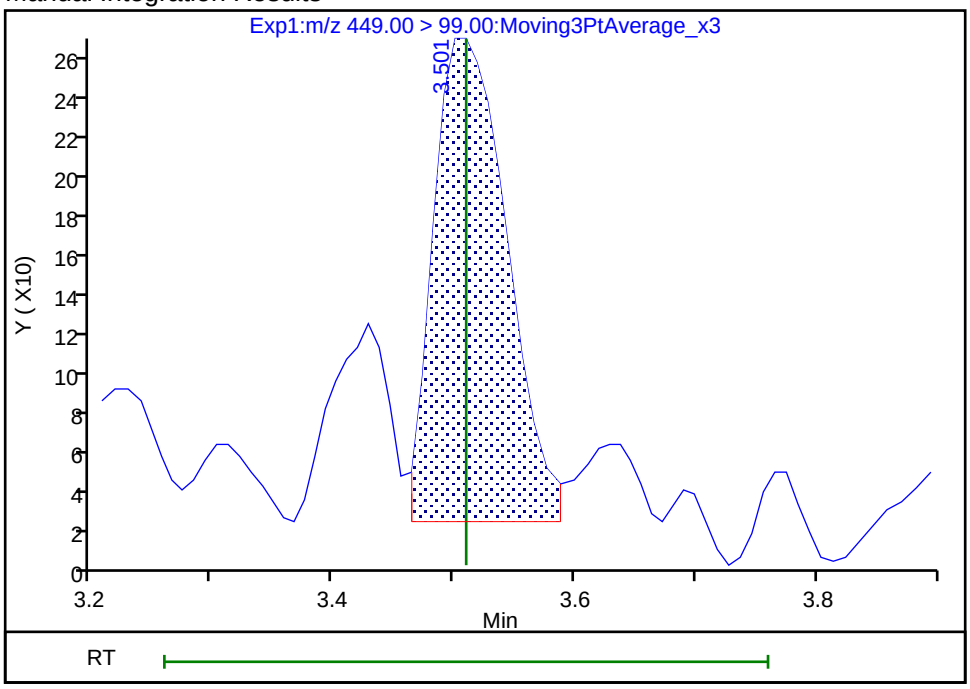
Processing Integration Results

RT: 3.51
Area: 1017
Amount: 0.008642
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 1027
Amount: 0.008485
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:23:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

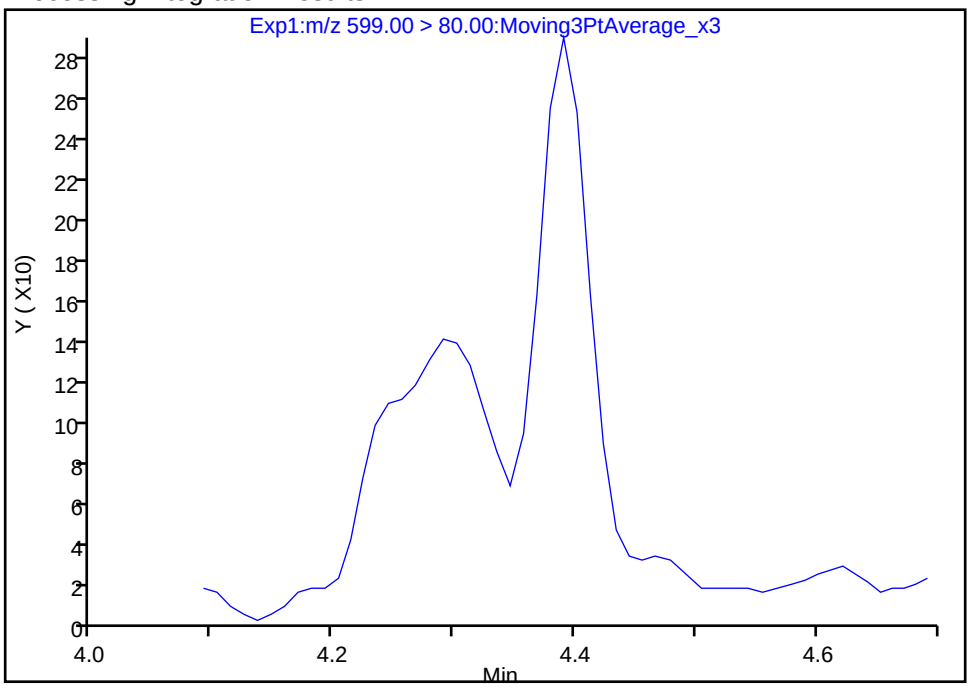
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

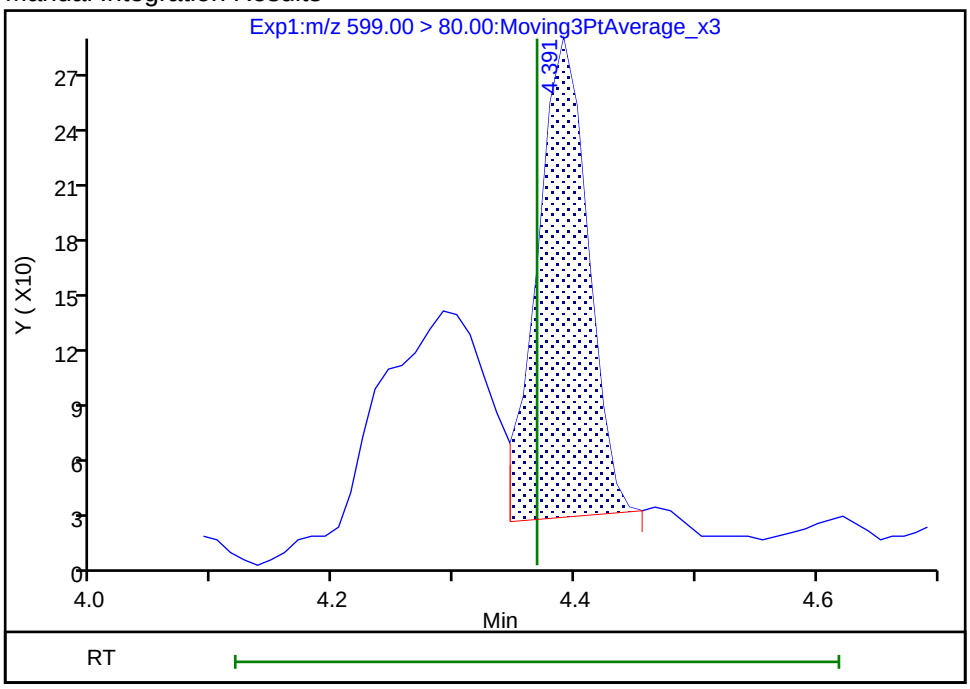
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 766
Amount: 0.002164
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:55:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

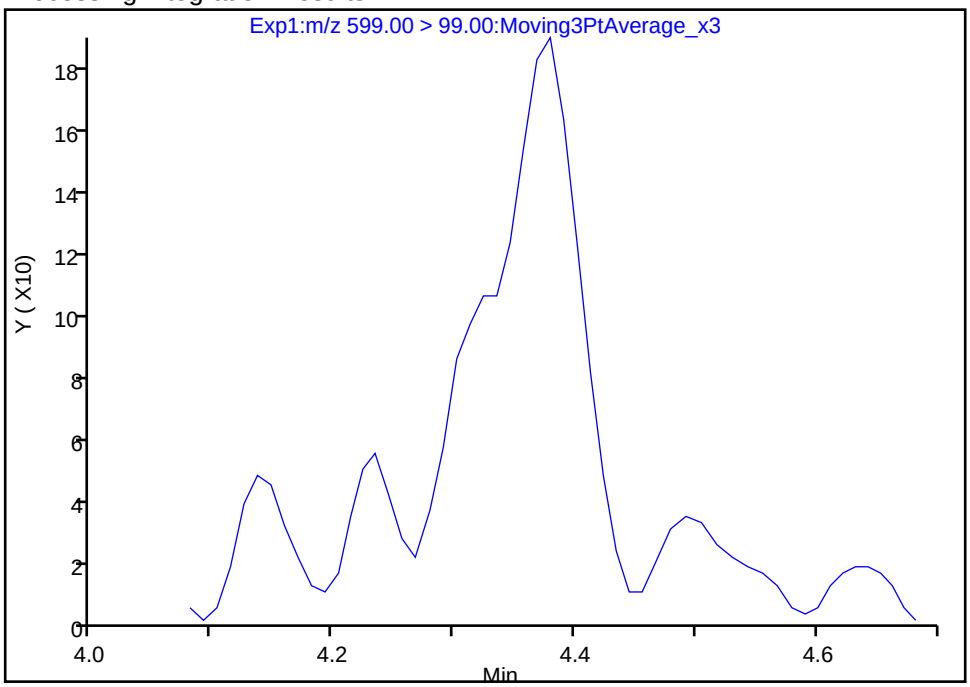
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

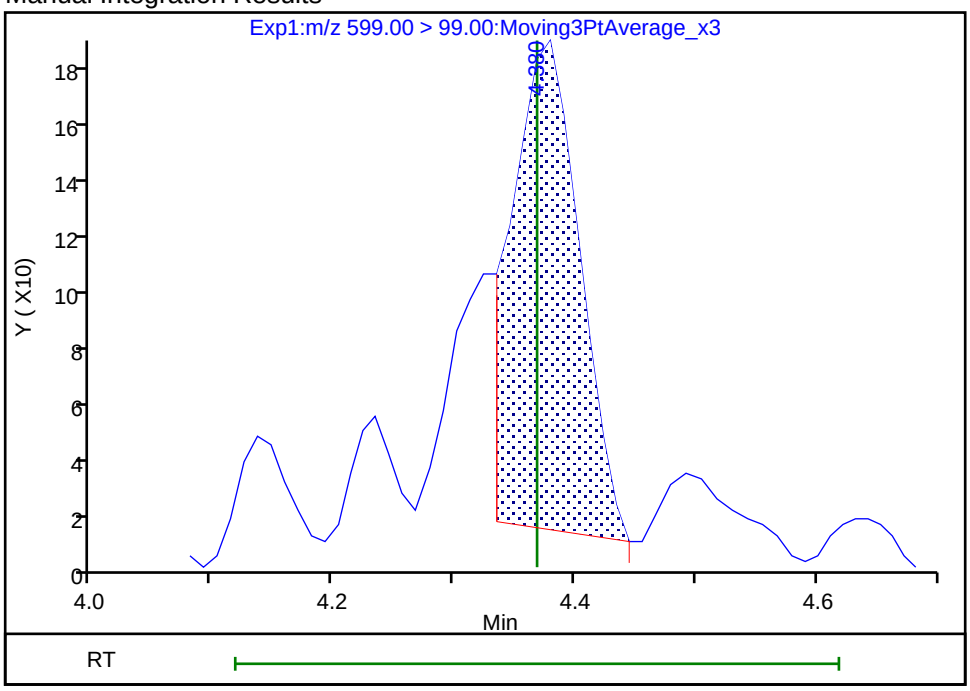
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 656
Amount: 0.002164
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:55:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

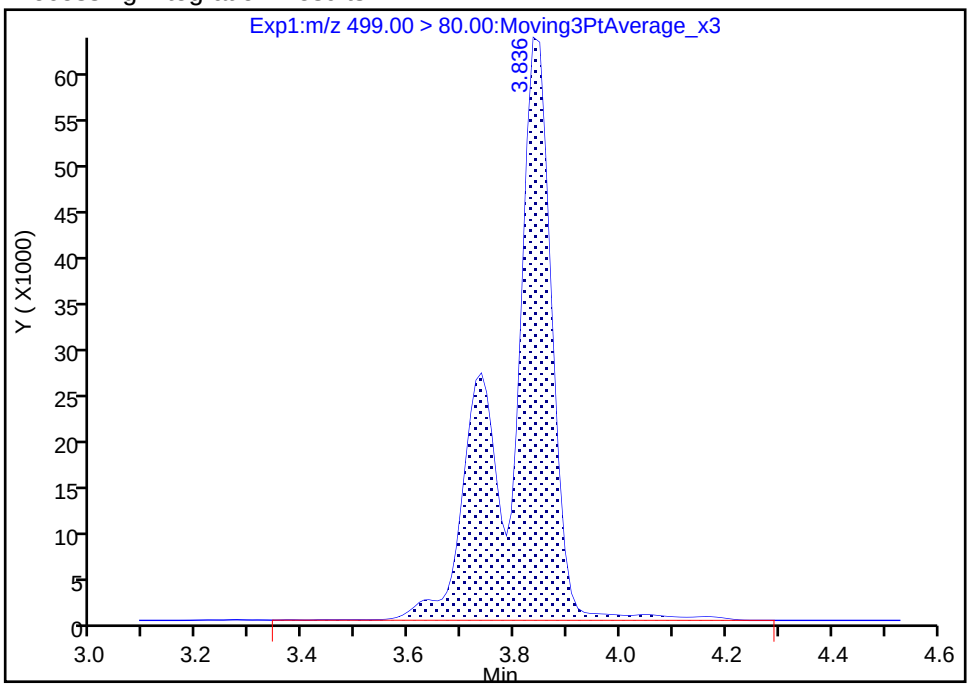
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

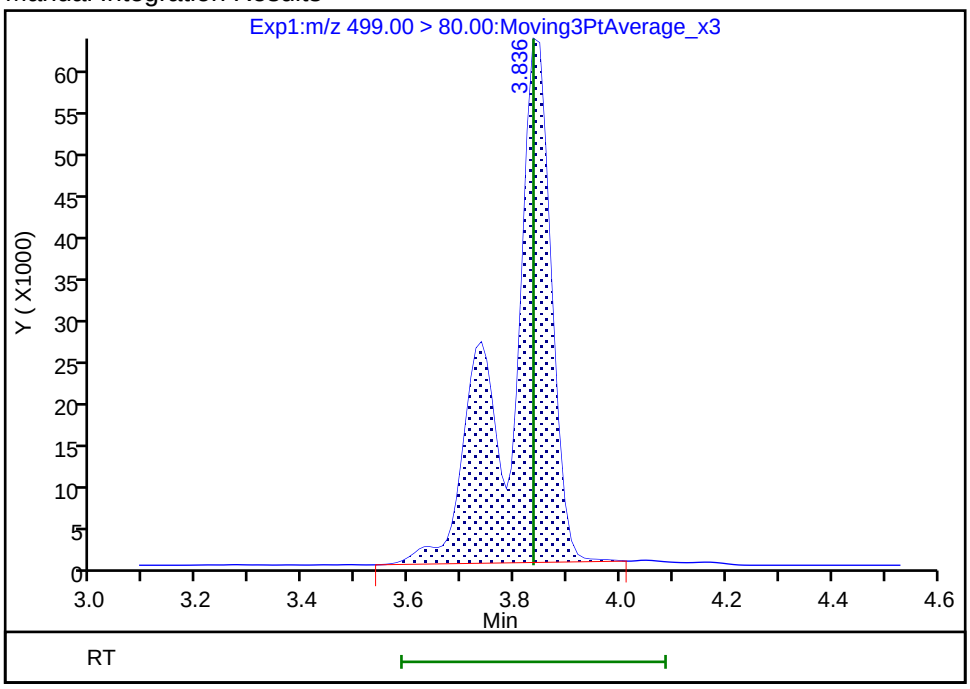
Processing Integration Results

RT: 3.84
Area: 375372
Amount: 0.599353
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 362775
Amount: 0.579239
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:53:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

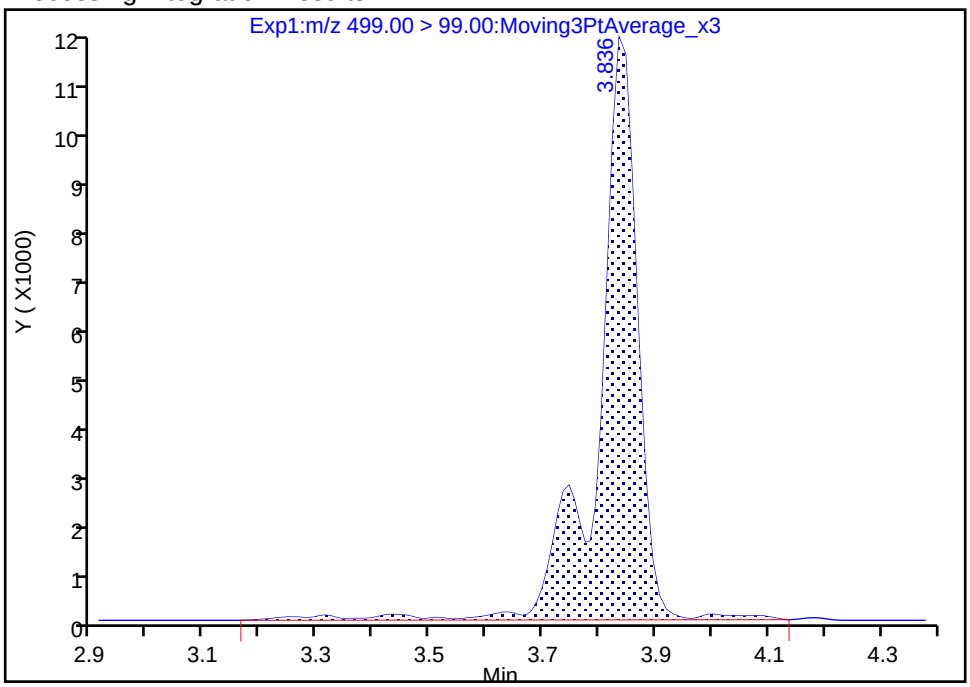
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

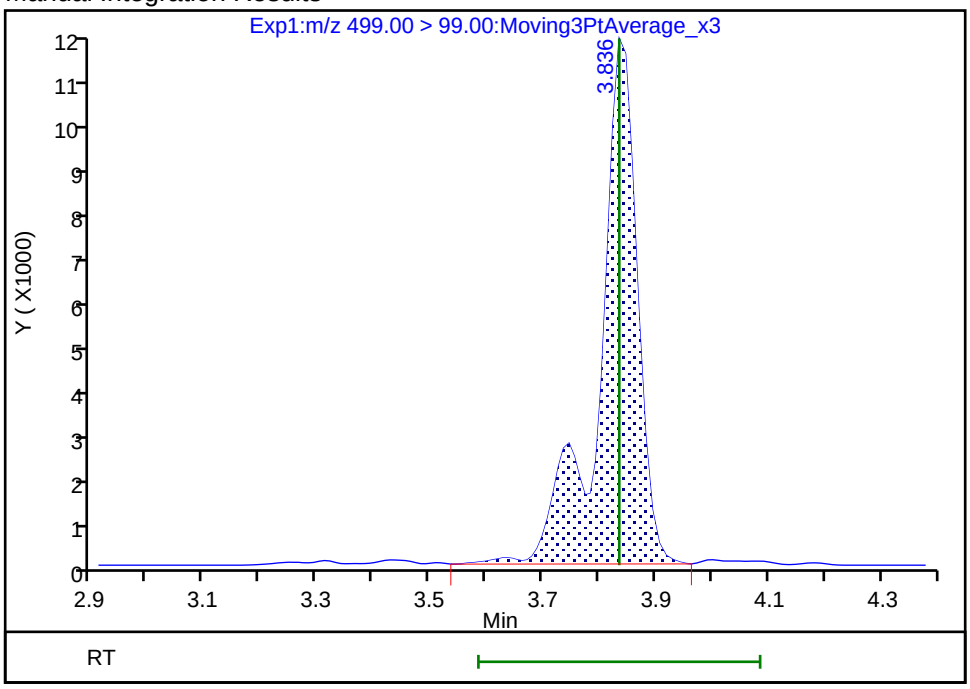
Processing Integration Results

RT: 3.84
Area: 54811
Amount: 0.599353
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 52553
Amount: 0.579239
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:24:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

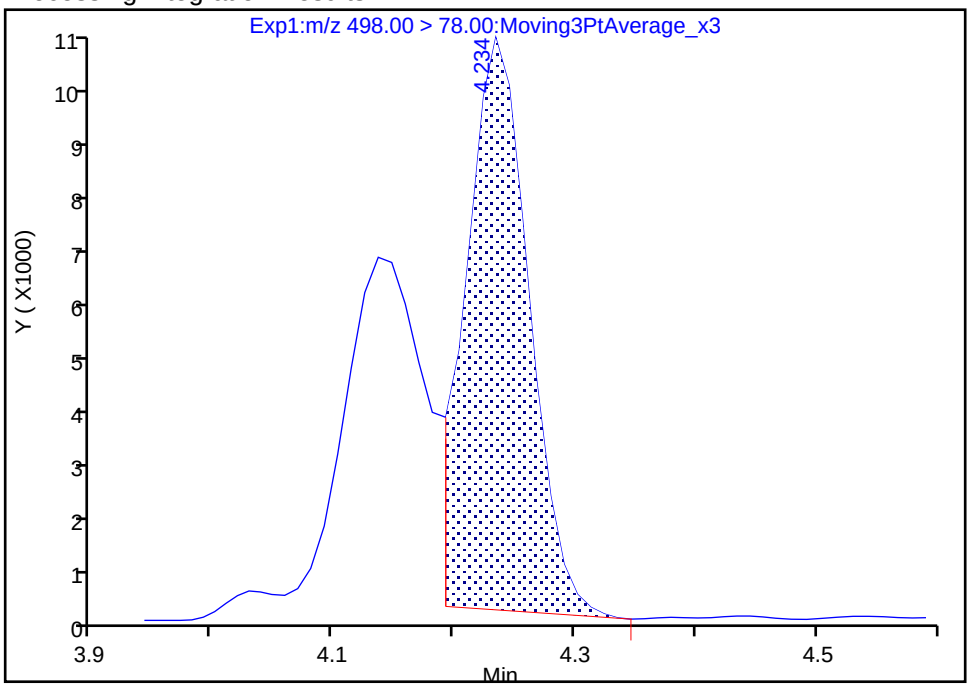
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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

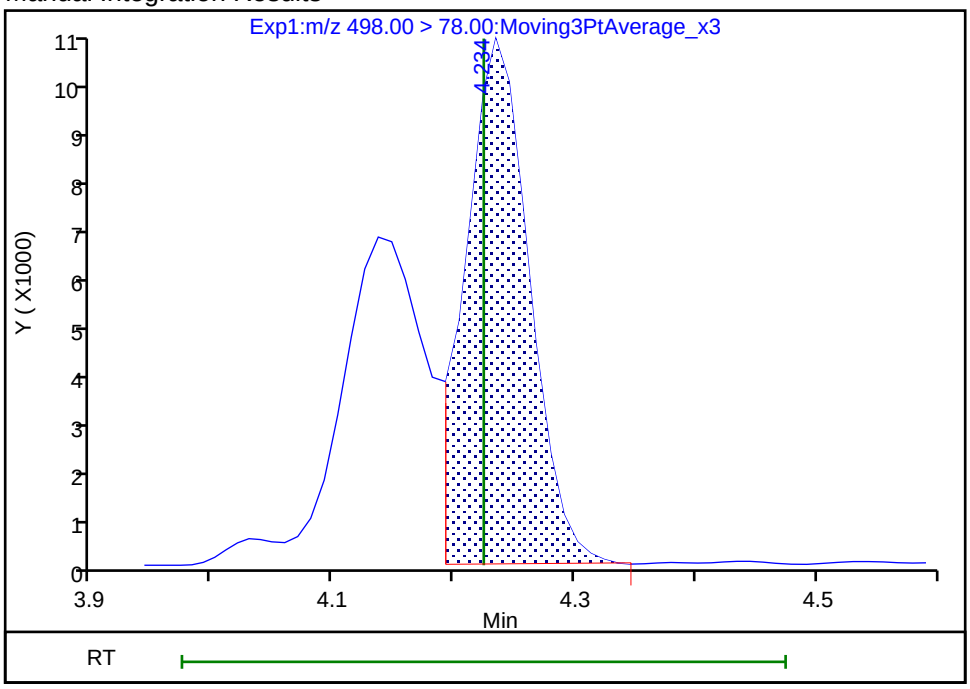
Processing Integration Results

RT: 4.23
Area: 37391
Amount: 0.036789
Amount Units: ng/ml



Manual Integration Results

RT: 4.23
Area: 38357
Amount: 0.037739
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:25:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

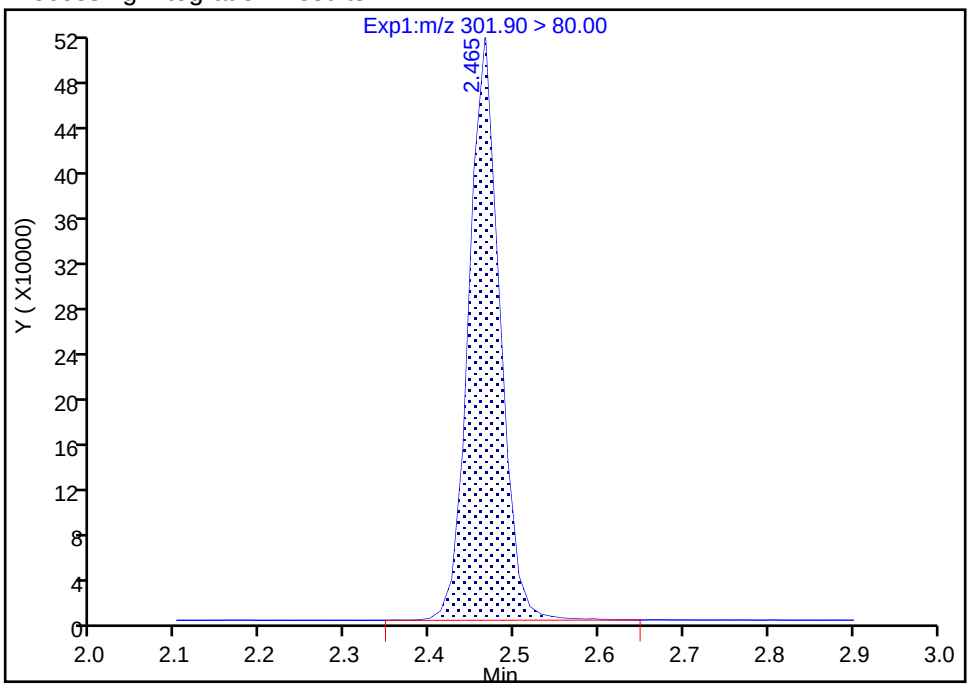
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

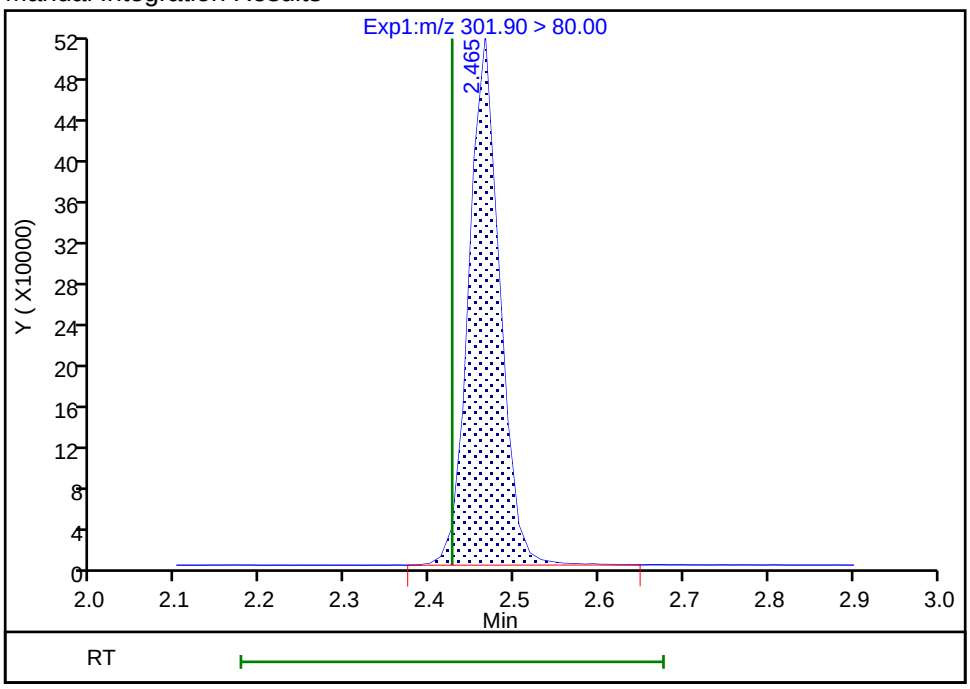
Processing Integration Results

RT: 2.47
Area: 1303034
Amount: 1.231662
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1302870
Amount: 1.231507
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:49:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

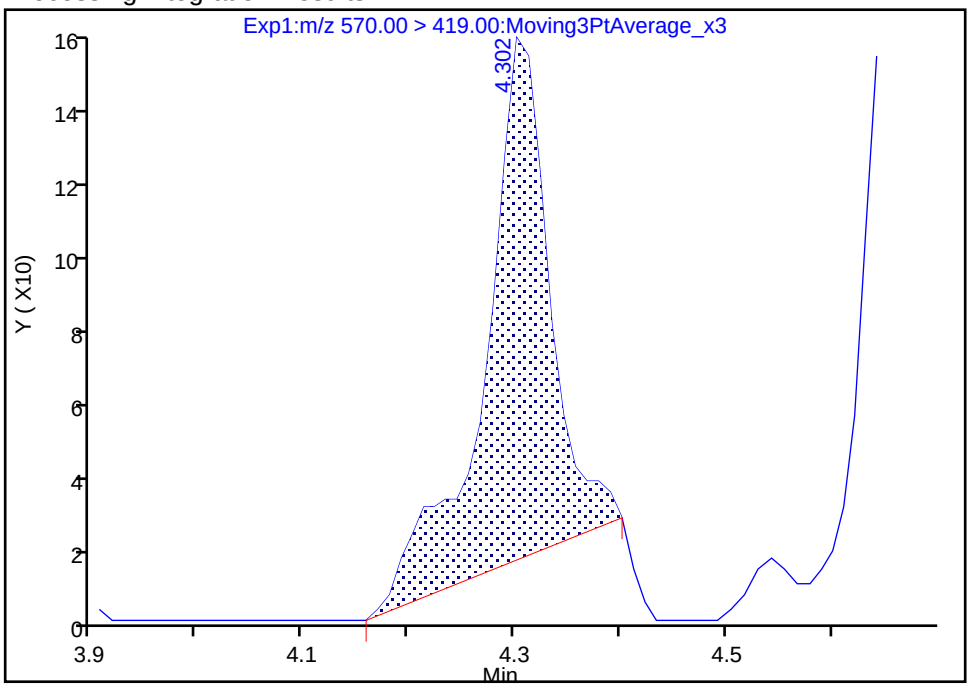
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

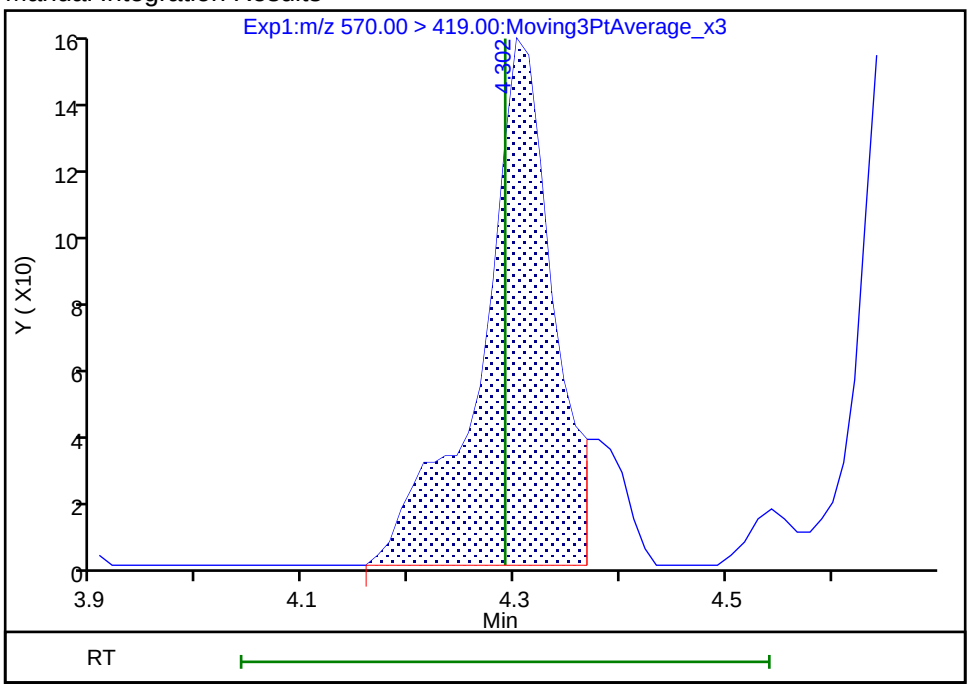
Processing Integration Results

RT: 4.30
Area: 610
Amount: 0.011856
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 743
Amount: 0.014441
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:55:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

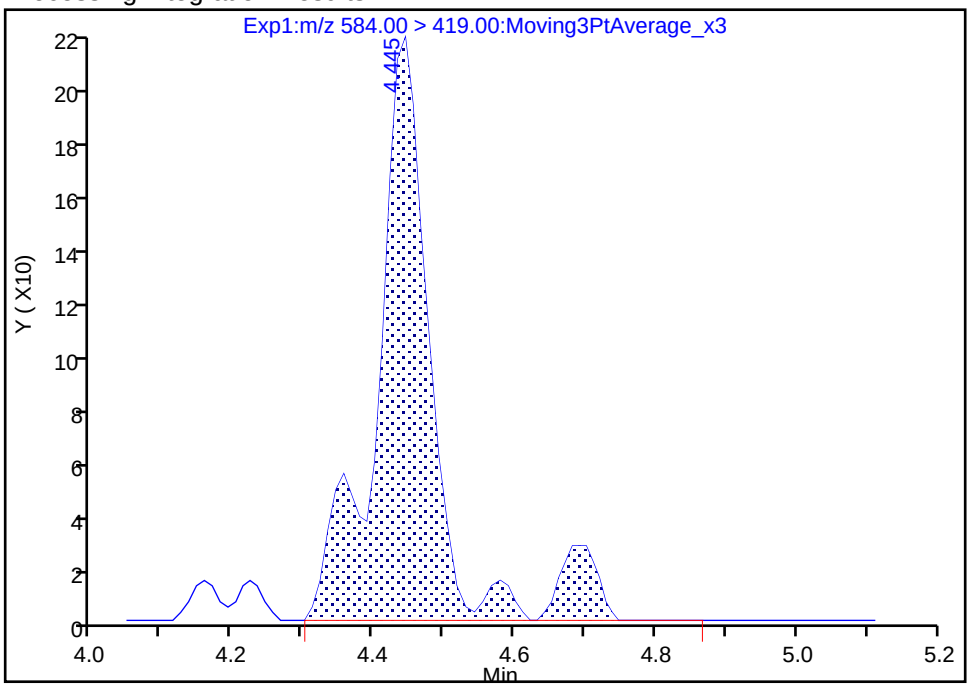
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

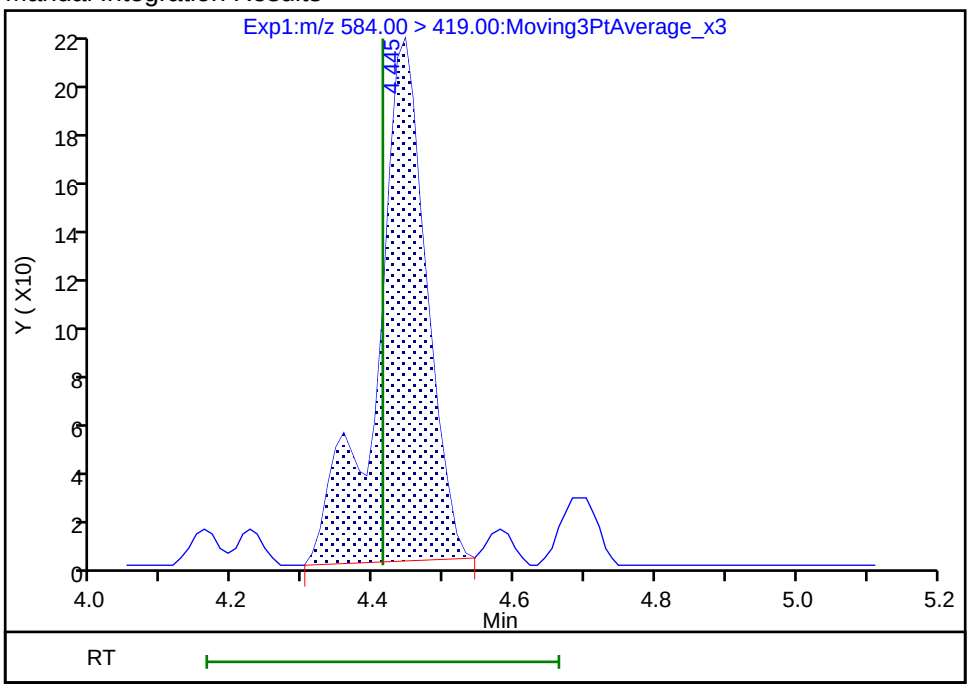
Processing Integration Results

RT: 4.44
Area: 1222
Amount: 0.024804
Amount Units: ng/ml



Manual Integration Results

RT: 4.44
Area: 1056
Amount: 0.021435
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:56:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

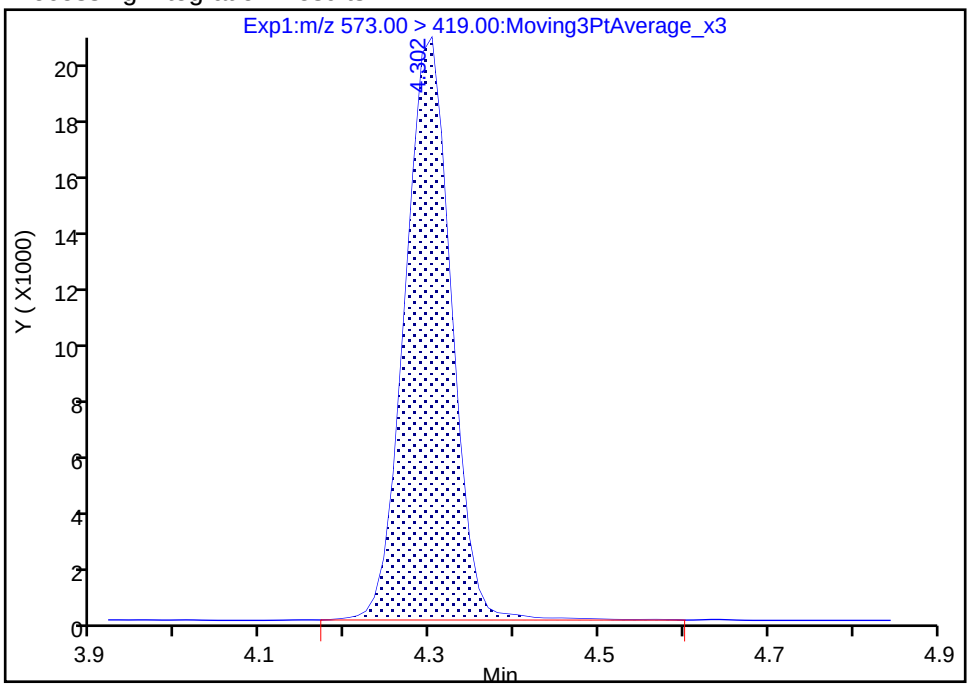
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

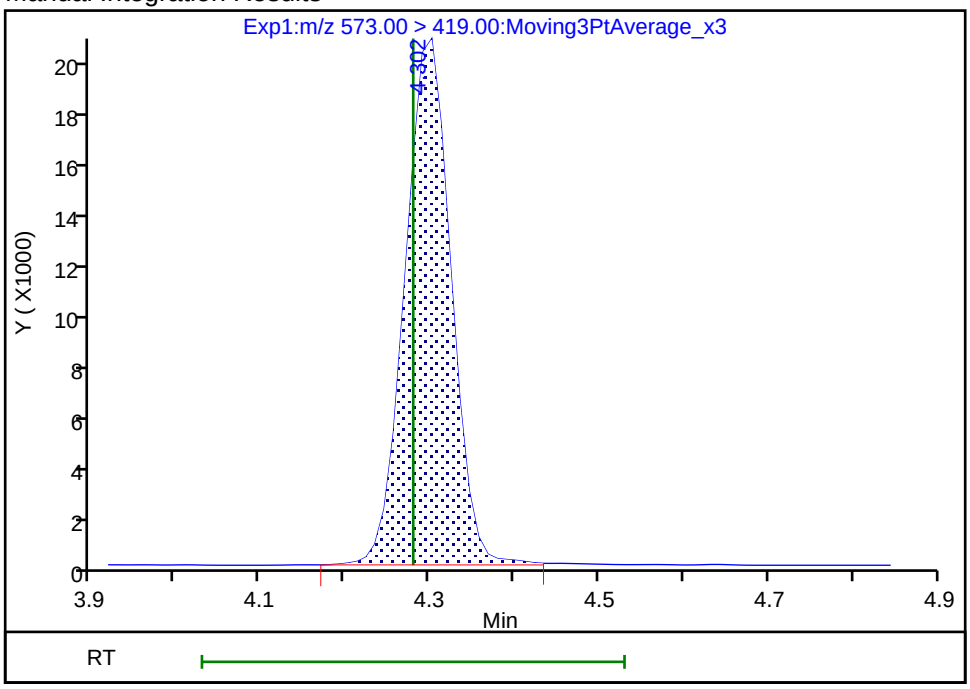
Processing Integration Results

RT: 4.30
Area: 77663
Amount: 1.076591
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 77364
Amount: 1.072446
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:50:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

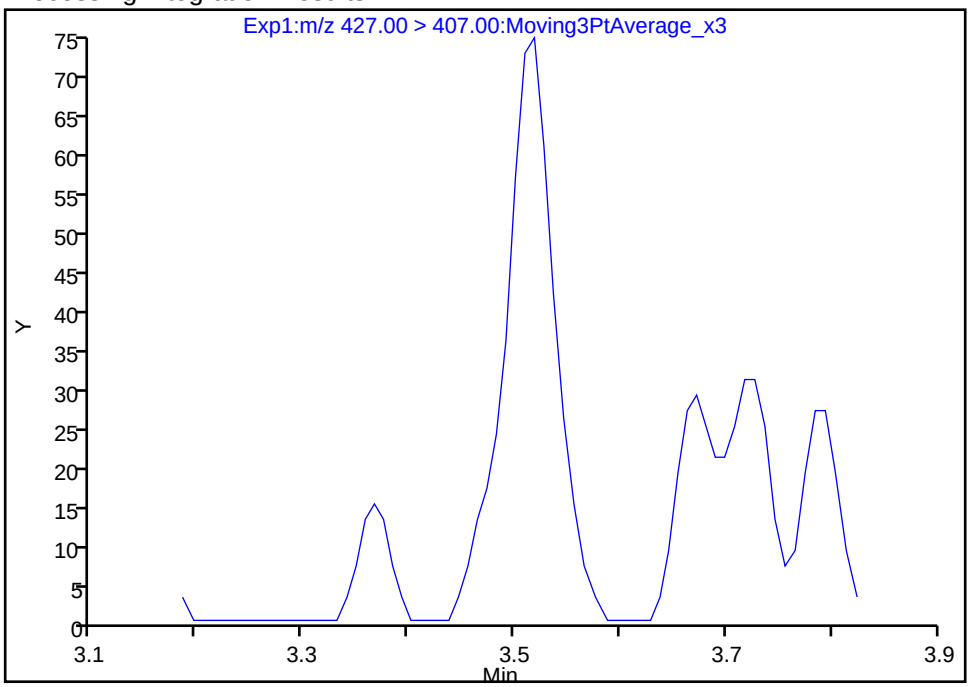
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

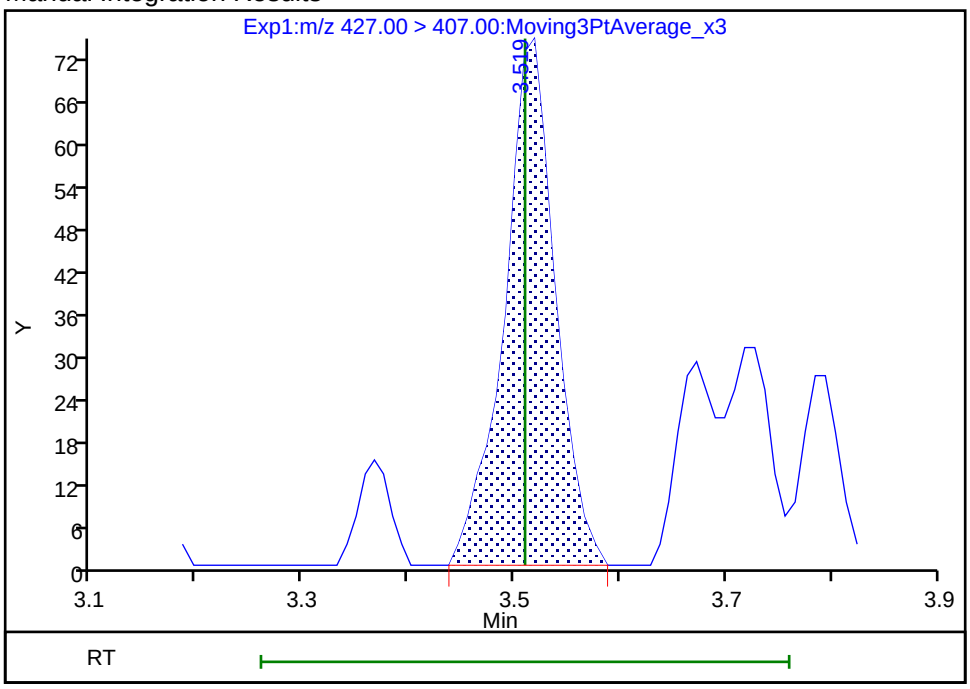
Processing Integration Results

Not Detected
Expected RT: 3.51



Manual Integration Results

RT: 3.52
Area: 251
Amount: 0.001846
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:53:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

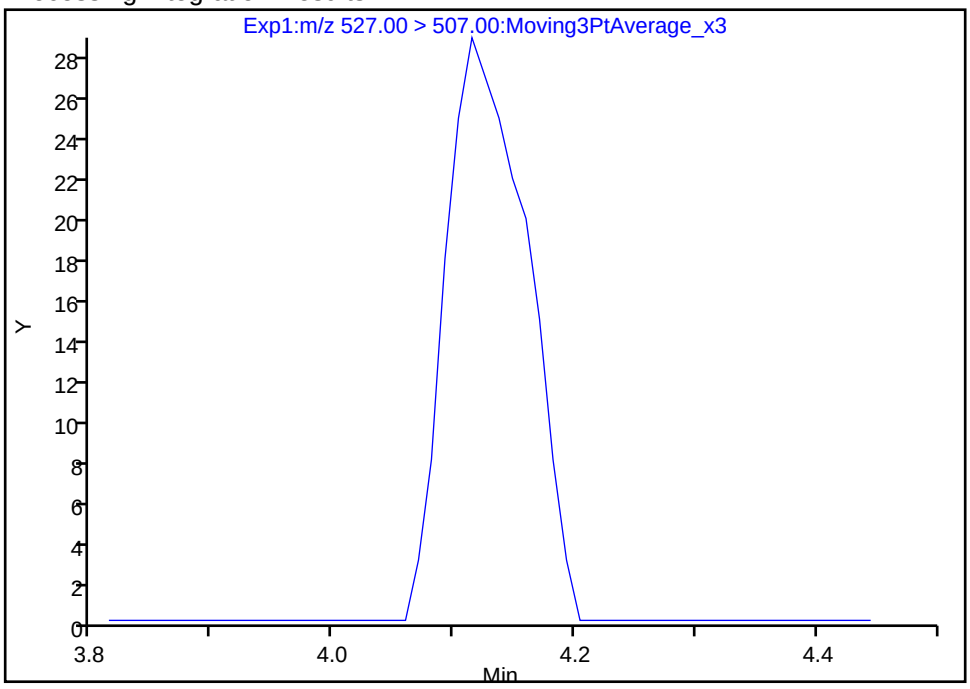
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A14.d				
Injection Date:	11-Aug-2021 14:33:16	Instrument ID:	LC812		
Lims ID:	480-188016-F-7-A	Lab Sample ID:	200-188016-7		
Client ID:	MW-86-X3				
Operator ID:	lc812tech	ALS Bottle#:	11	Worklist Smp#:	14
Injection Vol:	20.0 ul	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-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

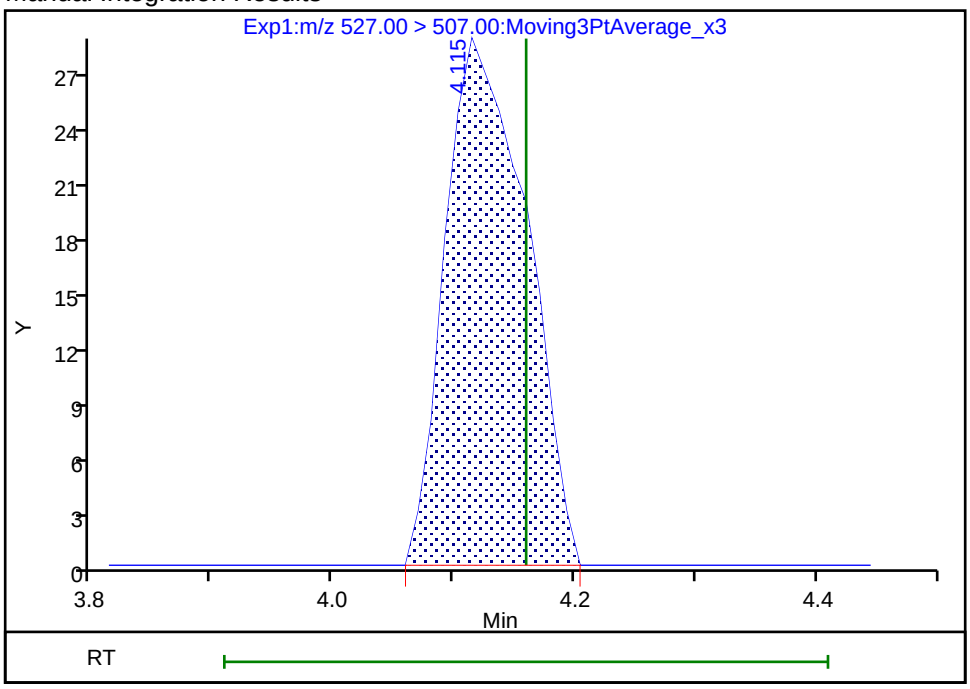
Processing Integration Results

Not Detected
Expected RT: 4.16



Manual Integration Results

RT: 4.11
Area: 136
Amount: 0.002261
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:55:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-02 Lab Sample ID: 480-188016-8

Matrix: Water Lab File ID: PA210811A15.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 12:00

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 255.9(mL) Date Analyzed: 08/11/2021 14:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	8.9		4.9	0.87
2706-90-3	Perfluoropentanoic acid (PFPeA)	8.8		2.0	0.46
307-24-4	Perfluorohexanoic acid (PFHxA)	7.7		2.0	0.44
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.9		2.0	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	16		2.0	0.41
375-95-1	Perfluorononanoic acid (PFNA)	2.1		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	0.55	J	2.0	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.38
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.42
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.62
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.5	B	2.0	0.24
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.9		2.0	0.30
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.53	J	2.0	0.23
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.30
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	25		2.0	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.56
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.9	0.88
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.9	0.73
27619-97-2	6:2 FTS	ND		4.9	1.1
39108-34-4	8:2 FTS	ND		2.0	0.38

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-02 Lab Sample ID: 480-188016-8

Matrix: Water Lab File ID: PA210811A15.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 12:00

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 255.9(mL) Date Analyzed: 08/11/2021 14:41

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	90		25-150
STL00992	13C4 PFBA	82		25-150
STL01893	13C5 PFPeA	98		25-150
STL00993	13C2 PFHxA	97		50-150
STL01892	13C4 PFHpA	98		50-150
STL00990	13C4 PFOA	102		50-150
STL00995	13C5 PFNA	98		50-150
STL00996	13C2 PFDA	98		50-150
STL00997	13C2 PFUnA	92		50-150
STL00998	13C2 PFDoA	85		50-150
STL02116	13C2 PFTeDA	84		50-150
STL02337	13C3 PFBS	102		50-150
STL00994	18O2 PFHxS	103		50-150
STL00991	13C4 PFOS	98		50-150
STL02118	d3-NMeFOSAA	88		50-150
STL02117	d5-NEtFOSAA	86		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: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d
Lims ID: 480-188016-F-8-A
Client ID: MW-99-02
Sample Type: Client
Inject. Date: 11-Aug-2021 14:41:33 ALS Bottle#: 12 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-F-8-A
Misc. Info.: 200-0047128-015 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:32:14 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 10:04:43
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	2.100	2.082	0.018	0.595	1324707	1.02		81.8	6351	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.082	0.027	1.004	231660	0.2268			22.7	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.691	1198980	1.22		97.8	1628	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.439	2.413	0.026	1.000	224577	0.2262			5.7	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.452	2.426	0.026	0.695	1234512	1.19		102	65154	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.465	2.426	0.039	1.005	103085	0.0899	Target=2.20		11.1	M
298.90 > 99.00	2.465	2.426	0.039	1.005	46043		2.24(1.10-3.30)		19.1	
D 7 13C2 PFHxA										
315.00 > 270.00	2.794	2.782	0.012	0.792	1305178	1.21		96.7	2579	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.807	2.782	0.025	1.004	207114	0.1972	Target=12.93		17.3	
313.00 > 119.00	2.794	2.782	0.012	1.000	16599		12.48(6.46-19.39)		27.4	
D 11 18O2 PFHxS										
403.00 > 84.00	3.164	3.154	0.010	0.897	1001328	1.21		103	3025	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.164	3.154	0.010	1.000	97317	0.0993	Target=4.48		62.8	
399.00 > 99.00	3.164	3.154	0.010	1.000	22515		4.32(2.24-6.72)		31.5	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.164	3.154	0.010	1.000	136611	0.1243	Target=3.68		17.1	M
363.00 > 169.00	3.175	3.154	0.021	1.003	38023		3.59(1.84-5.53)		83.5	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.154	0.010	0.897	1328933	1.23		98.2	2580	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.510	3.510	0.0	0.915	10027	0.0137	Target=6.56		12.3	
449.00 > 99.00	3.519	3.510	0.009	0.917	1970		5.09(3.28-9.84)		6.4	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.519	3.510	0.009	0.997	140776	1.23		104	239	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.519	3.510	0.009	1.000	244	0.001986			6.0	M
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1420479	1.27		102	3896	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1414987	1.25			2605	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	488109	0.4081	Target=2.67		116	
413.00 > 169.00	3.528	3.519	0.009	1.000	199933		2.44(1.33-4.00)		491	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.836	3.836	0.0	1.087	703566	1.17		97.8	2078	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	417835	0.6333	Target=6.69		243	M
499.00 > 99.00	3.836	3.836	0.0	1.000	51687		8.08(3.34-10.03)		159	M
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.094	1302399	1.23		98.1	4036	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.858	3.858	0.0	1.000	53377	0.0530	Target=7.21		17.1	M
463.00 > 169.00	3.847	3.858	-0.011	0.997	7447		7.17(3.60-10.81)		42.1	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.148	4.148	0.0	1.176	1179959	1.23		98.0	3702	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.148	4.148	0.0	1.000	14211	0.0141	Target=8.42		12.8	M
513.00 > 169.00	4.148	4.148	0.0	1.000	1401		10.14(4.21-12.63)		10.2	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.159	4.160	-0.001	1.000	90	0.001378			2.4	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.159	4.160	-0.001	1.179	157033	1.15		96.2	644	M
D 21 13C8 FOSA										
506.00 > 78.00	4.234	4.224	0.010	1.200	1188236	1.12		89.5	1812	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.234	4.224	0.010	1.000	1499	0.001612			1.5	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.292	4.280	0.012	1.217	77931	1.10		88.0	757	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.280	4.291	-0.011	0.997	90	0.001737			0.9	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.414	4.402	0.012	1.251	874865	1.15		91.6	3185	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.425	4.413	0.012	1.254	78933	1.07		85.7	671	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.425	4.413	0.012	1.000	384	0.007178			6.6	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	4.643	4.632	0.011	1.316	835812	1.06		84.7	3524	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.633	4.632	0.001	0.998	1119	0.001658	Target=6.31		0.6	RM
613.00 > 169.00	4.643	4.632	0.011	1.000	393		2.85(3.15-9.46)		7.4	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.856	4.845	0.011	1.046	801	0.001377	Target=4.61		0.5	M
663.00 > 169.00	4.867	4.845	0.022	1.048	222		3.61(2.31-6.92)		2.7	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.044	5.034	0.010	1.430	649504	1.05		83.9	2394	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.034	5.034	0.0	0.998	232	0.002598	Target=1.00		7.4	M
713.00 > 219.00	5.034	5.034	0.0	0.998	178		1.30(0.50-1.51)		5.5	M

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Report Date: 12-Aug-2021 12:32:25 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d

Injection Date: 11-Aug-2021 14:41:33 Instrument ID: LC812

Lims ID: 480-188016-F-8-A Lab Sample ID: 200-188016-8

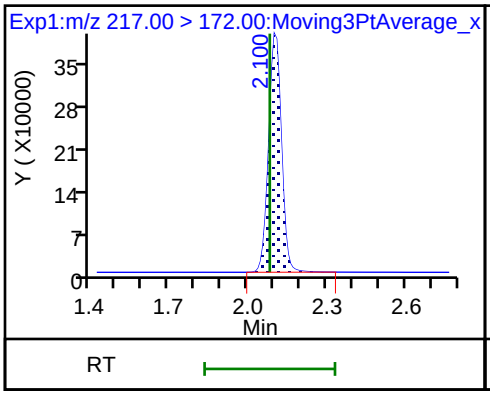
Client ID: MW-99-02

Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 15

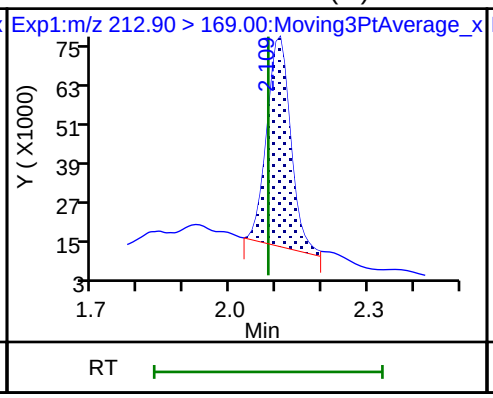
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

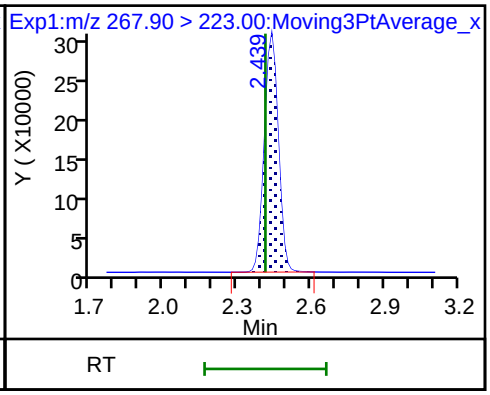
D 1 13C4 PFBA



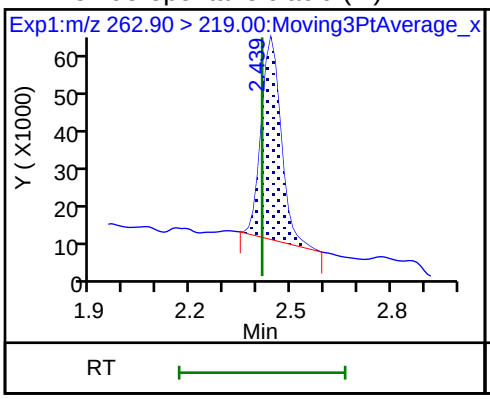
2 Perfluorobutanoic acid (M)



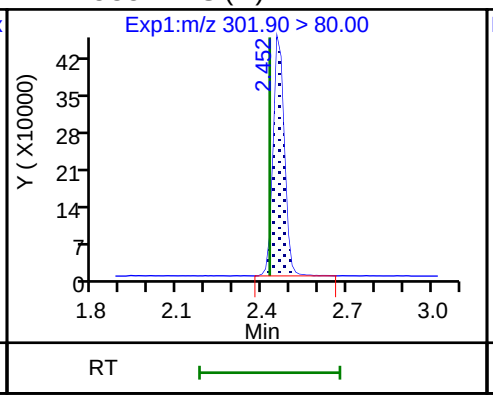
D 3 13C5 PFPeA



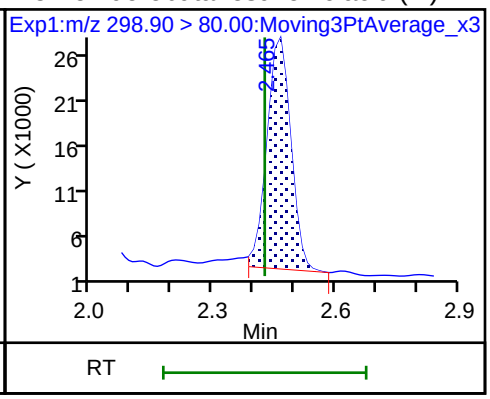
4 Perfluoropentanoic acid (M)



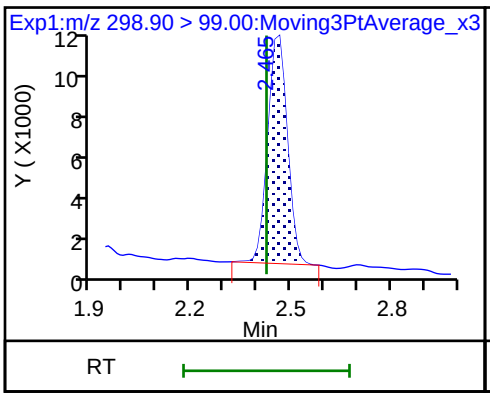
D 47 13C3 PFBS (M)



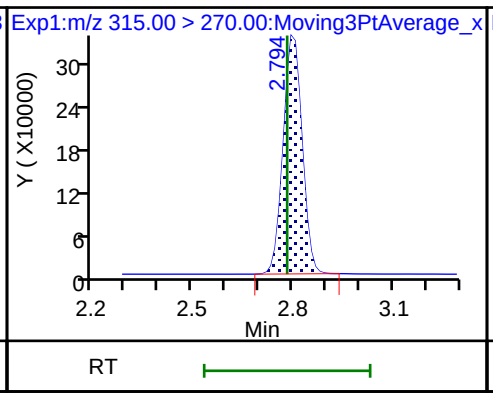
5 Perfluorobutanesulfonic acid (M)



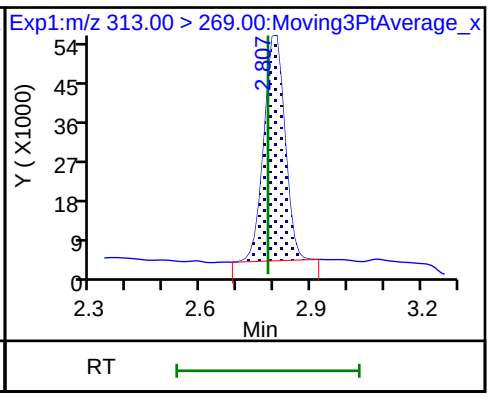
5 Perfluorobutanesulfonic acid



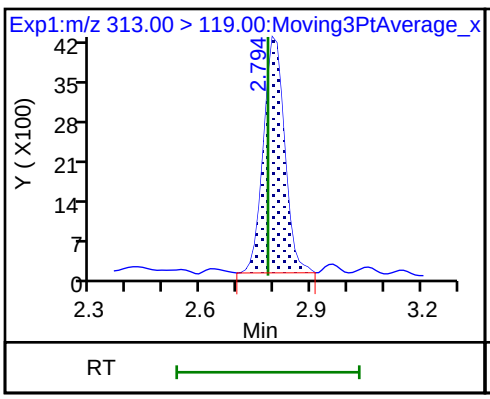
D 7 13C2 PFHxA



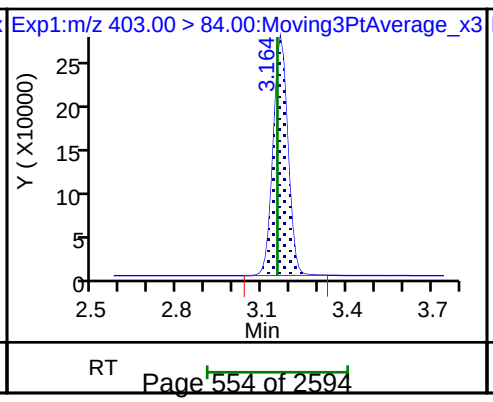
6 Perfluorohexanoic acid



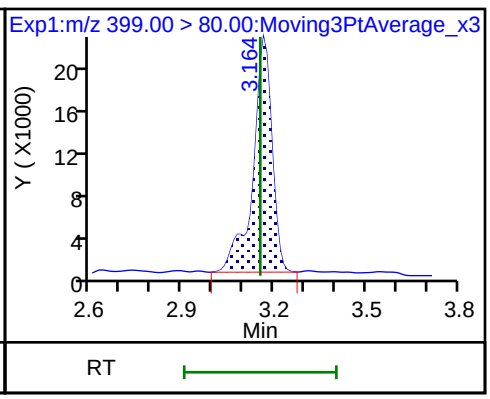
6 Perfluorohexanoic acid



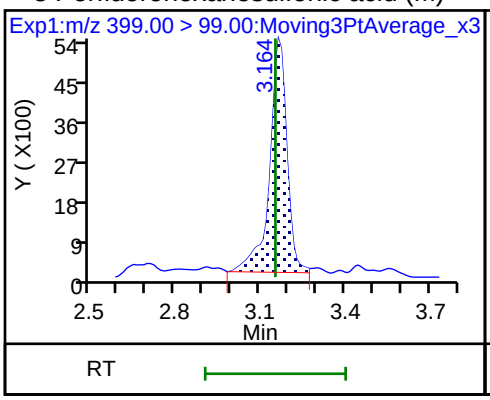
D 11 18O2 PFHxS



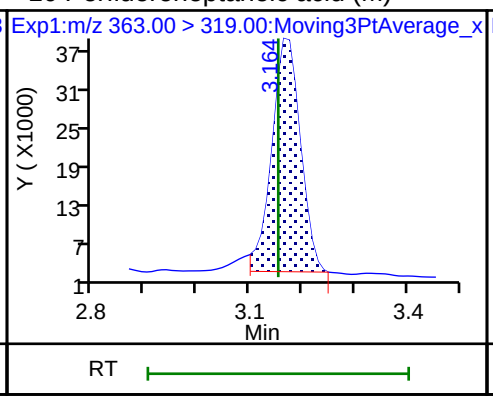
8 Perfluorohexanesulfonic acid



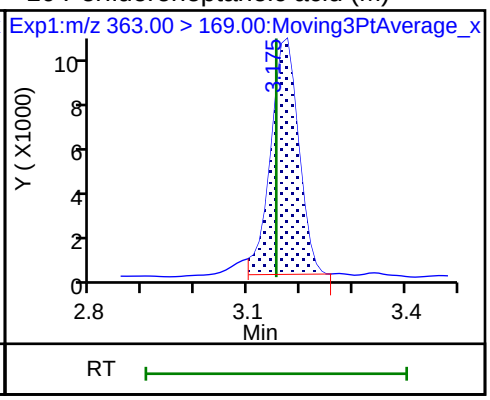
8 Perfluorohexanesulfonic acid (M)



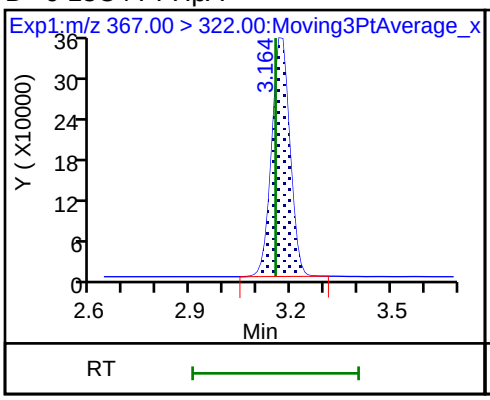
10 Perfluoroheptanoic acid (M)



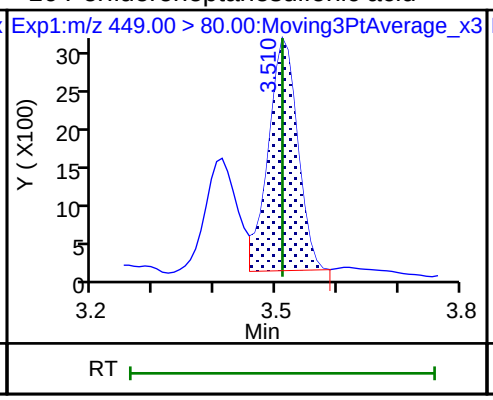
10 Perfluoroheptanoic acid (M)



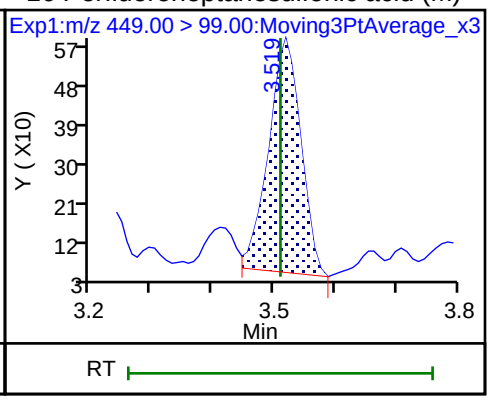
D 9 13C4 PFHpA



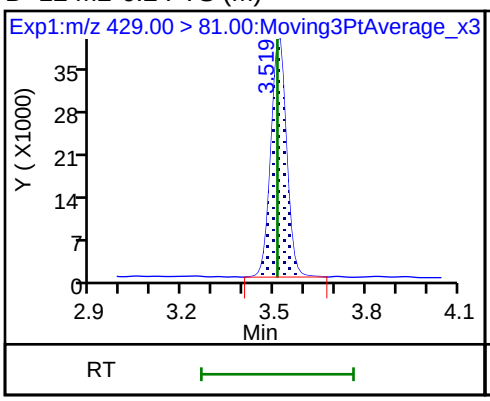
16 Perfluoroheptanesulfonic acid



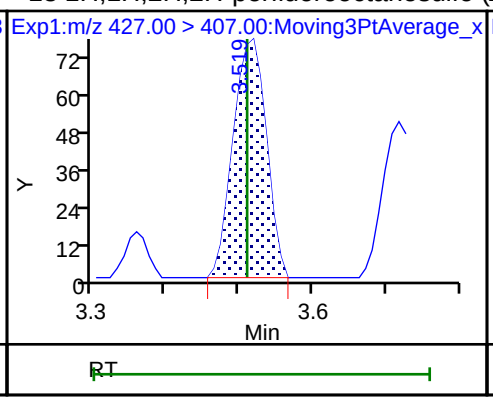
16 Perfluoroheptanesulfonic acid (M)



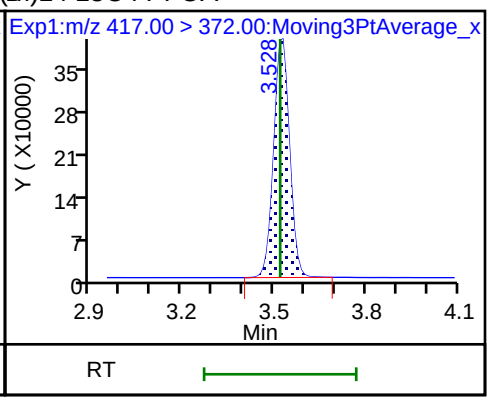
D 12 M2-6:2 FTS (M)



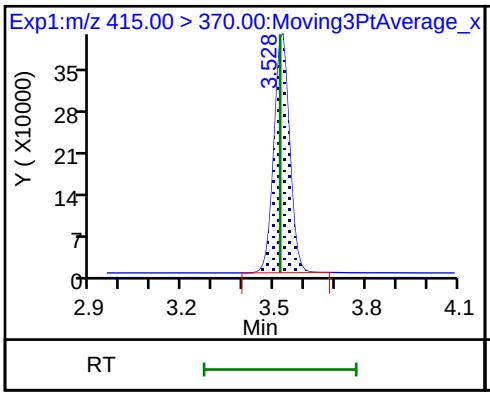
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



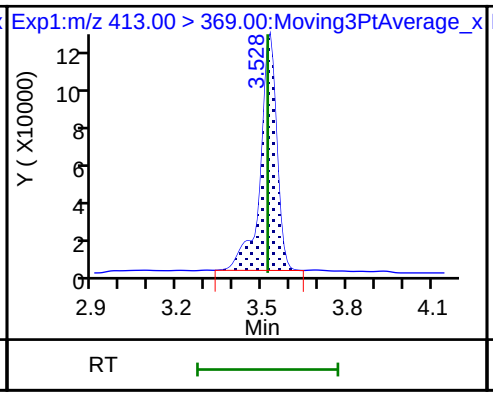
14 13C4 PFOA



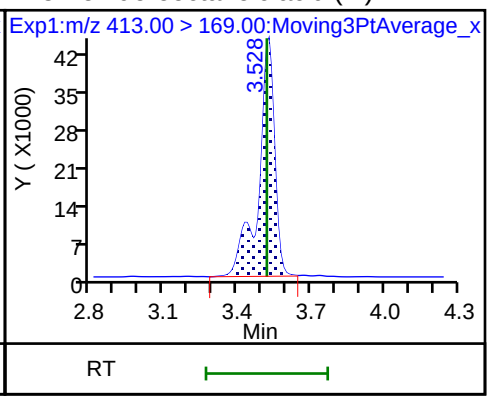
* 62 13C2 PFOA



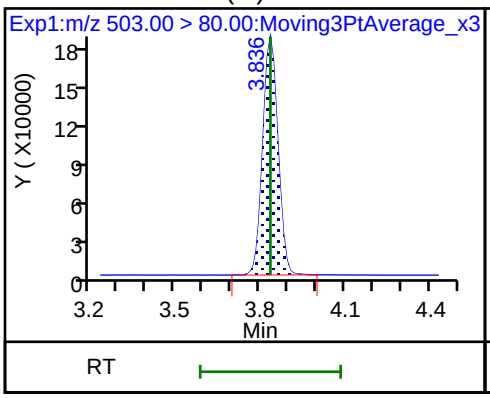
15 Perfluorooctanoic acid



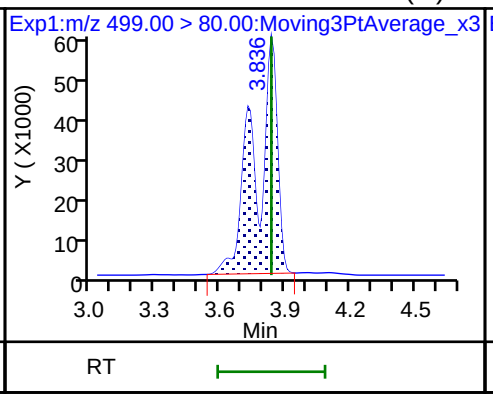
15 Perfluorooctanoic acid (M)



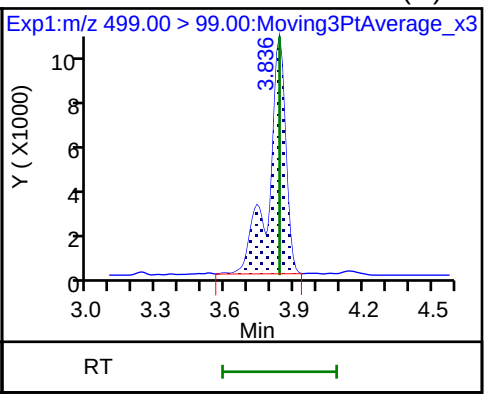
D 18 13C4 PFOS (M)



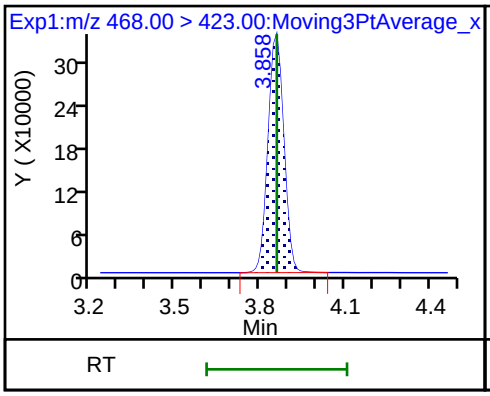
17 Perfluorooctanesulfonic acid (M)



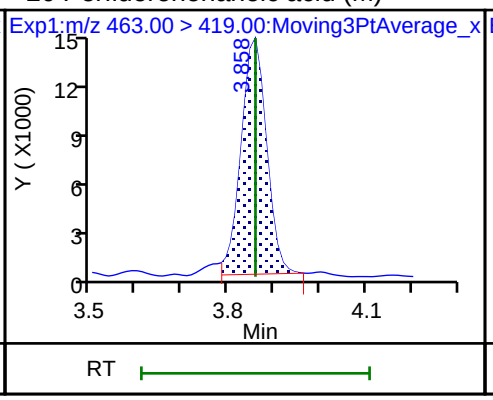
17 Perfluorooctanesulfonic acid (M)



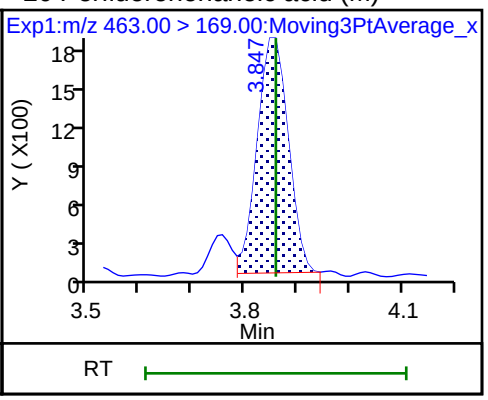
D 19 13C5 PFNA



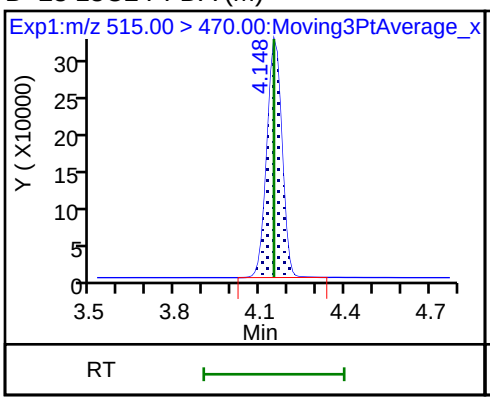
20 Perfluorononanoic acid (M)



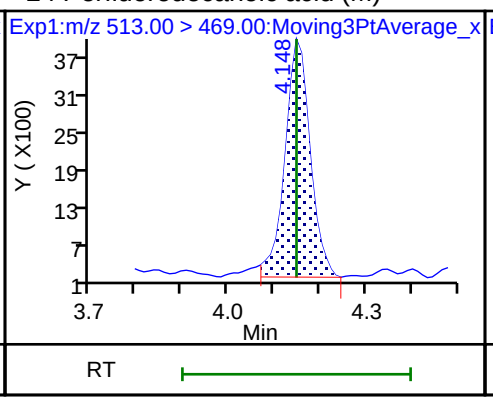
20 Perfluorononanoic acid (M)



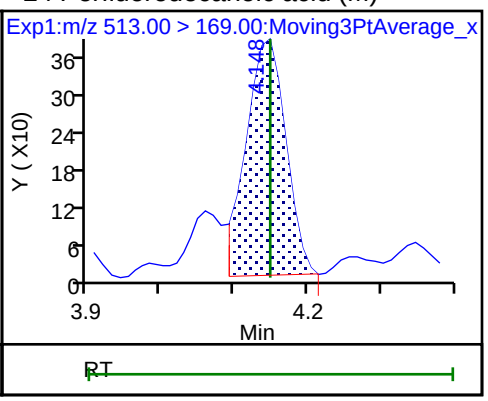
D 23 13C2 PFDA (M)



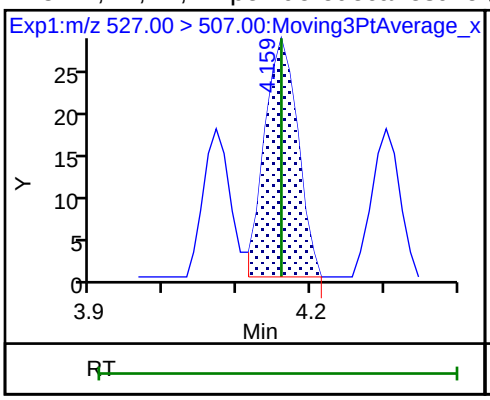
24 Perfluorodecanoic acid (M)



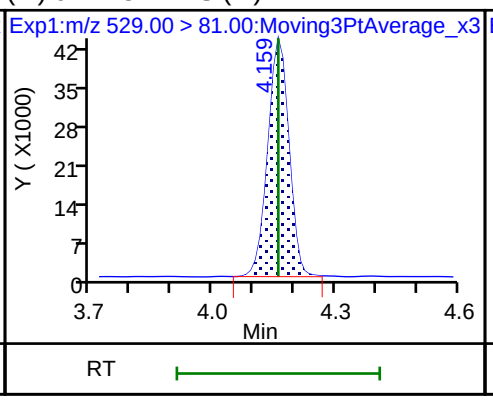
24 Perfluorodecanoic acid (M)



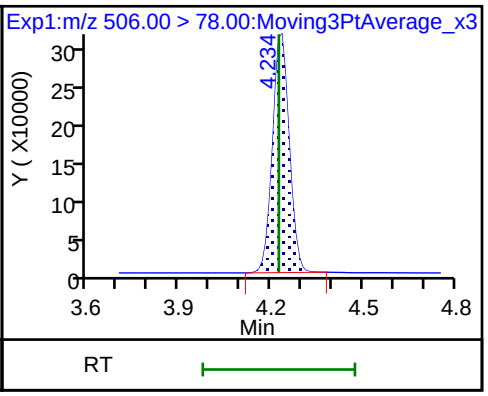
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



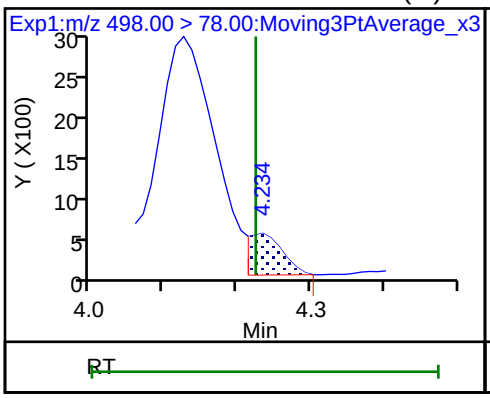
D 26 M2-8:2 FTS (M)



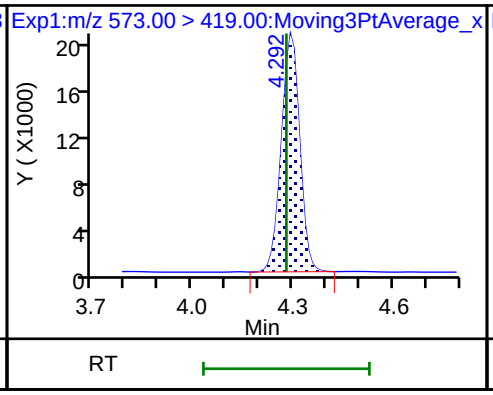
D 21 13C8 FOSA



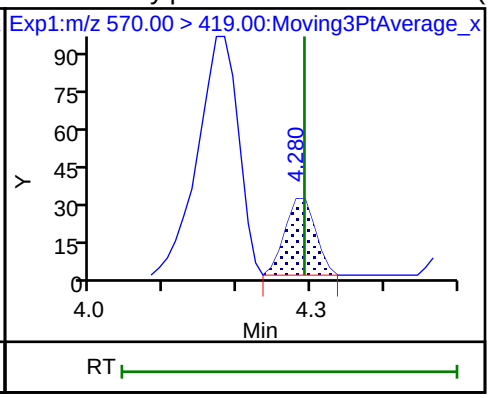
22 Perfluorooctanesulfonamide (M)



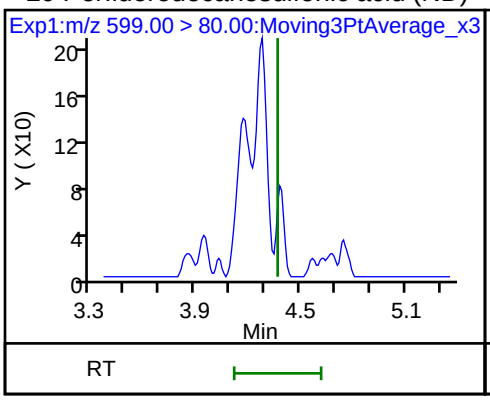
D 27 d3-NMeFOSAA



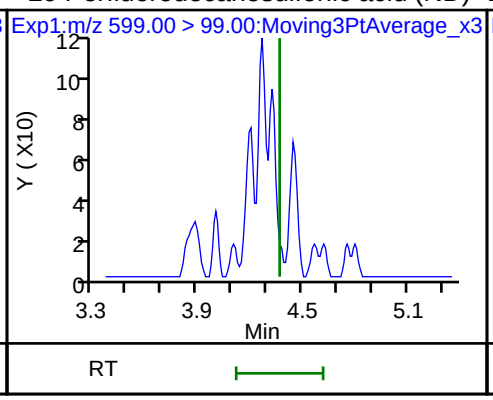
28 N-methylperfluorooctanesulfonami (M)



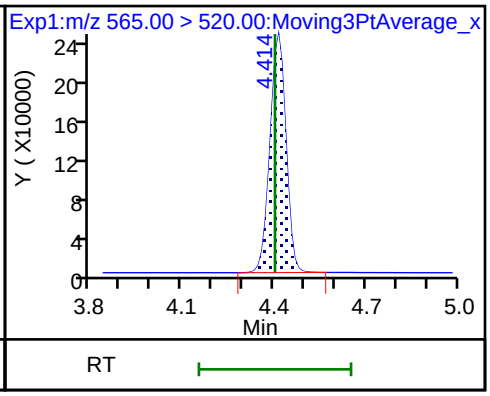
29 Perfluorodecanesulfonic acid (ND)



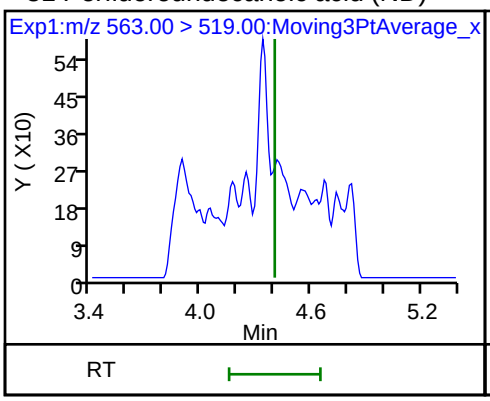
29 Perfluorodecanesulfonic acid (ND)



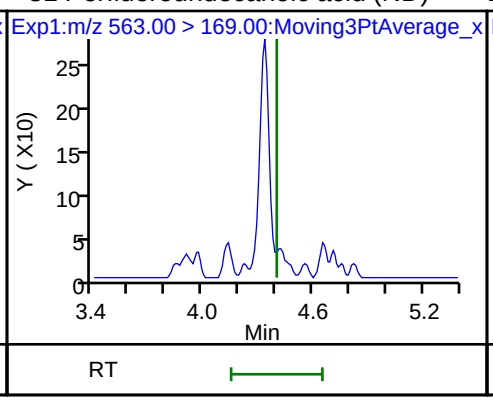
D 30 13C2 PFUnA



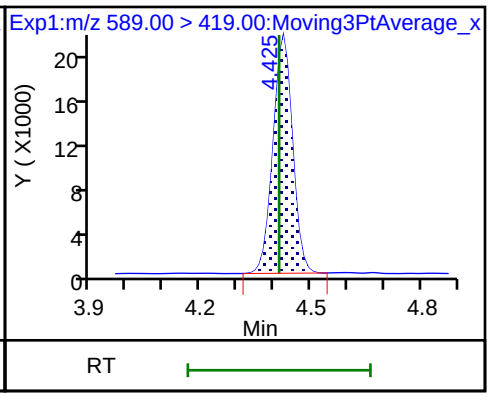
31 Perfluoroundecanoic acid (ND)



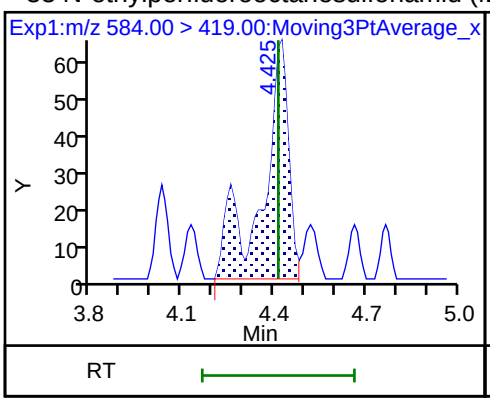
31 Perfluoroundecanoic acid (ND)



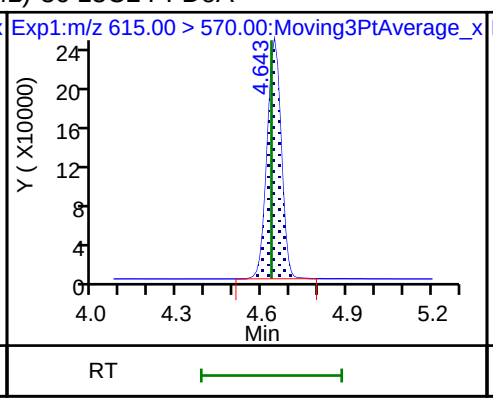
D 32 d5-NEtFOSAA



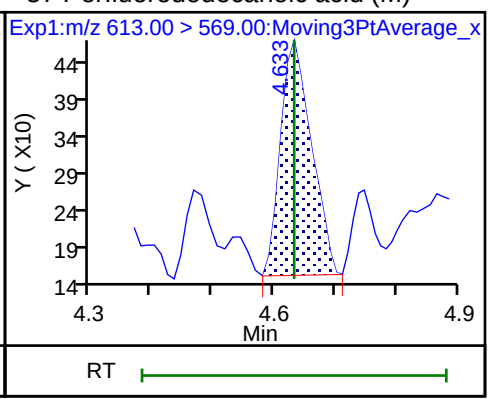
33 N-ethylperfluorooctanesulfonamid (ND)



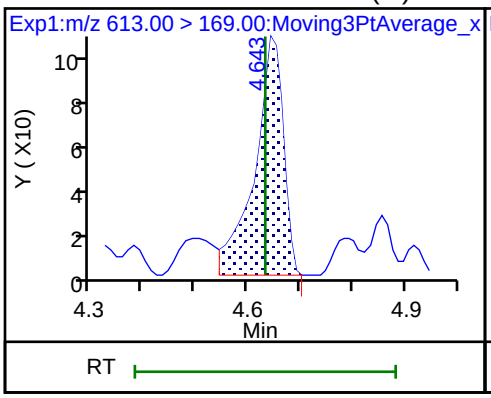
D 36 13C2 PFDoA



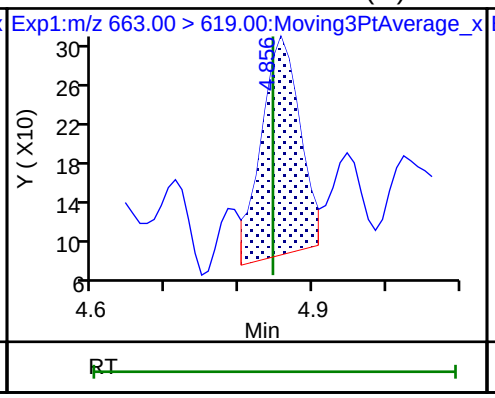
37 Perfluorododecanoic acid (M)



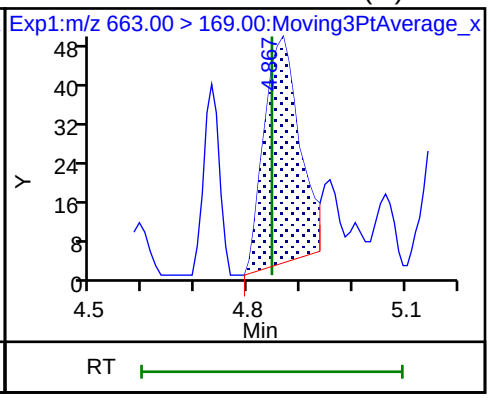
37 Perfluorododecanoic acid (M)



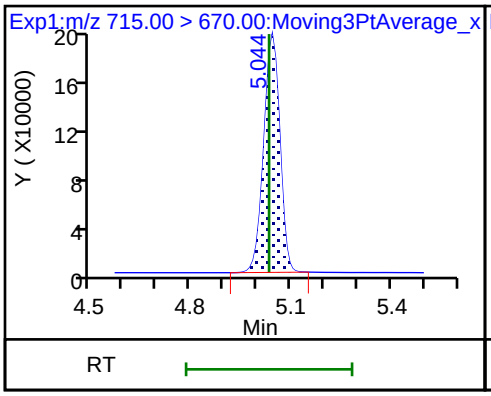
41 Perfluorotridecanoic acid (M)



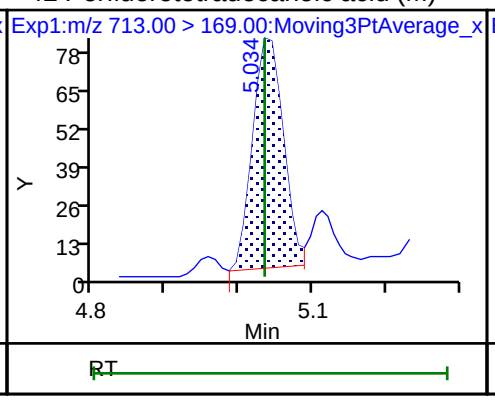
41 Perfluorotridecanoic acid (M)



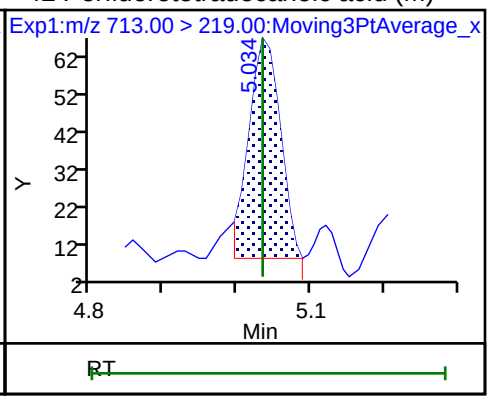
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

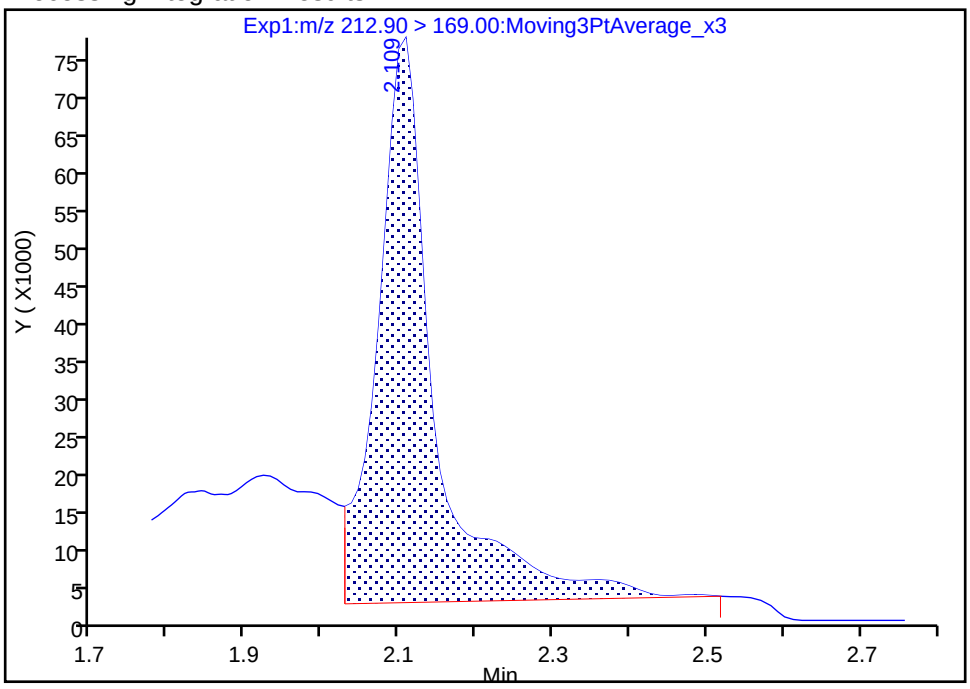
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Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

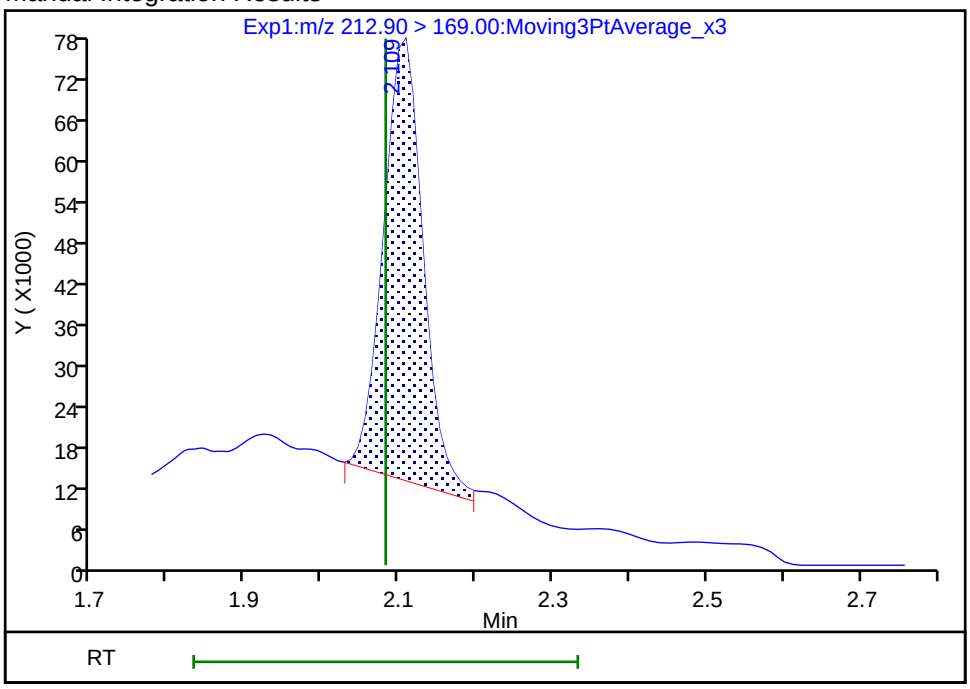
Processing Integration Results

RT: 2.11
Area: 386093
Amount: 0.378020
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 231660
Amount: 0.226816
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:58:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

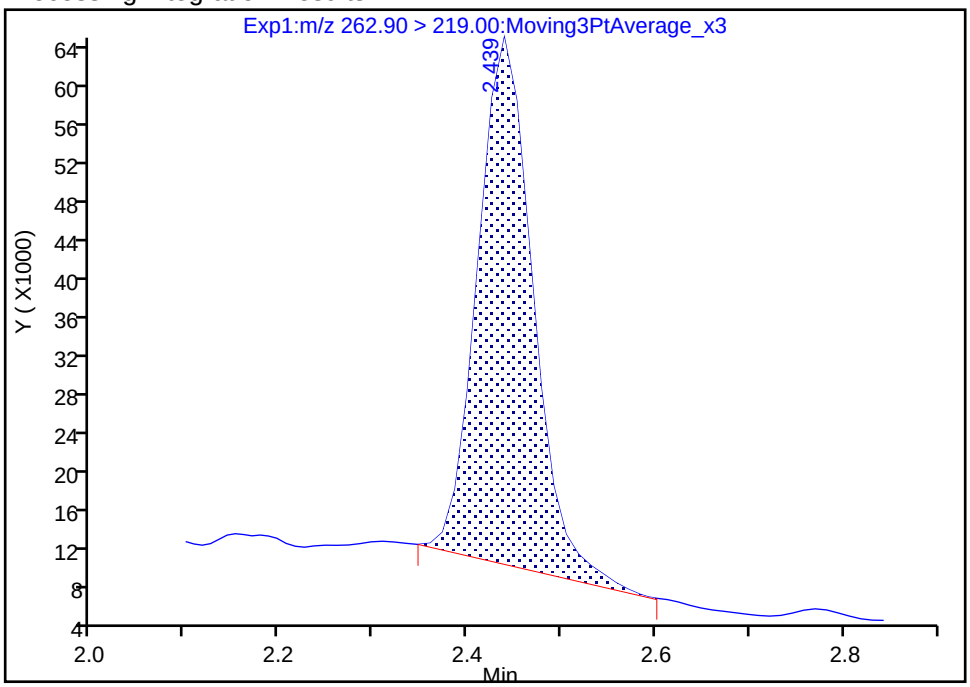
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Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

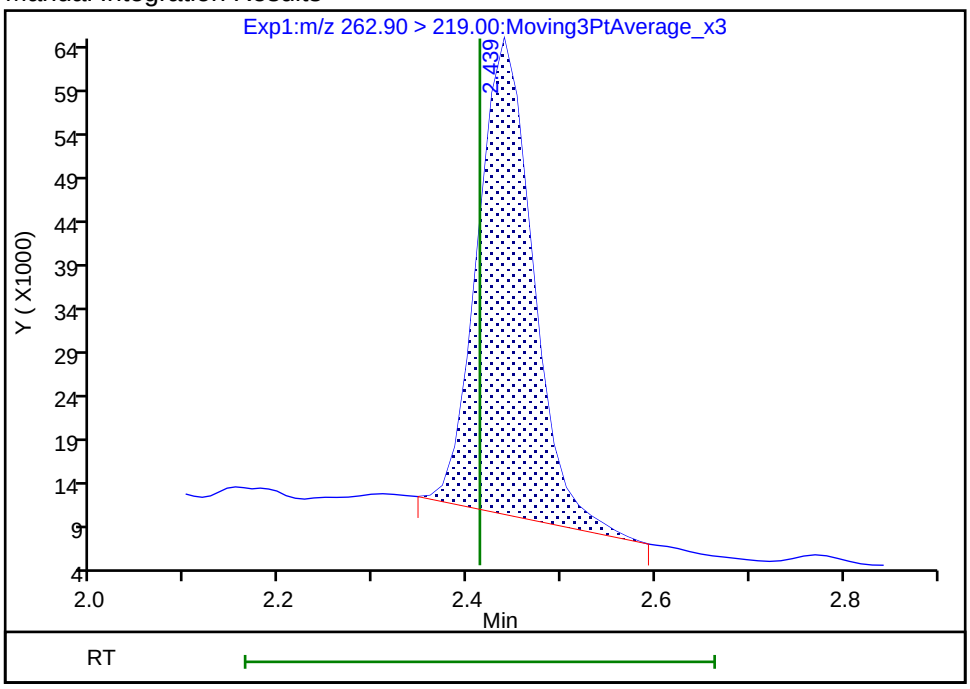
Processing Integration Results

RT: 2.44
Area: 225179
Amount: 0.226829
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 224577
Amount: 0.226222
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:59:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

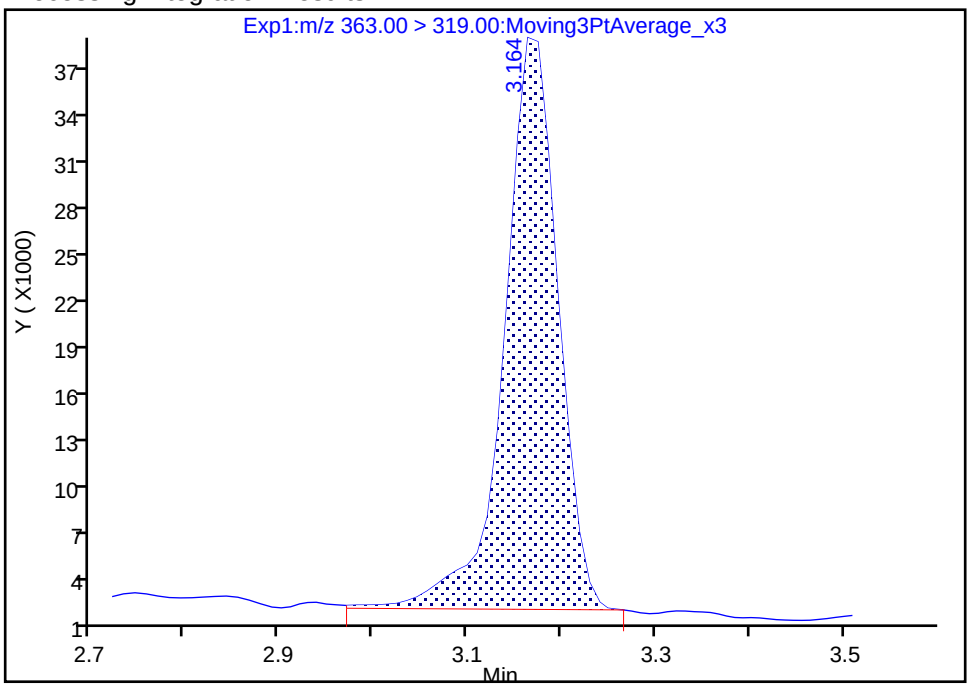
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Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

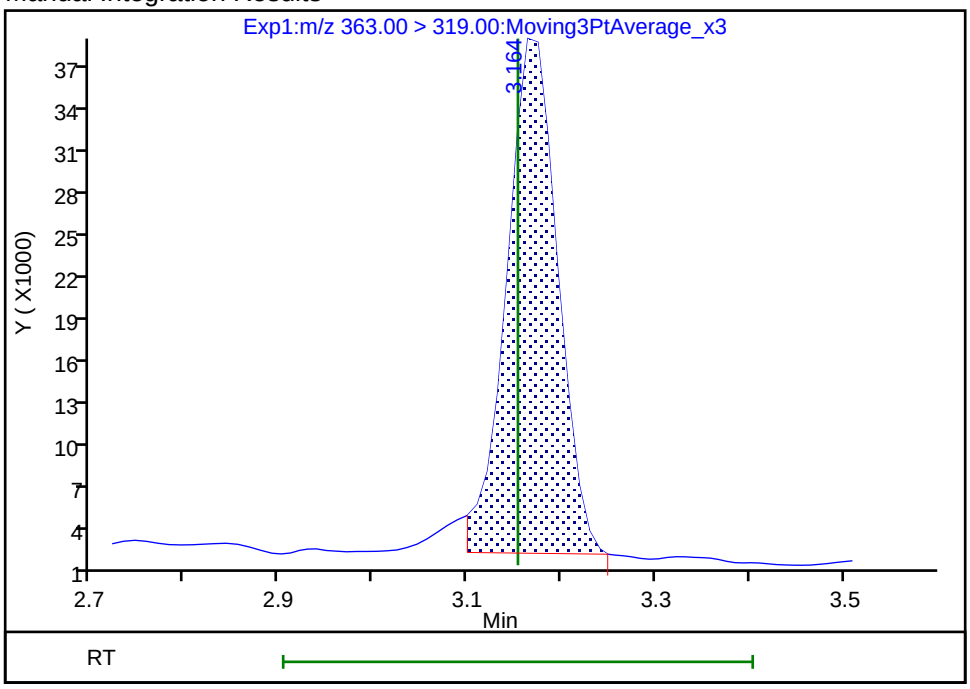
Processing Integration Results

RT: 3.16
Area: 145112
Amount: 0.132005
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 136611
Amount: 0.124272
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:00:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

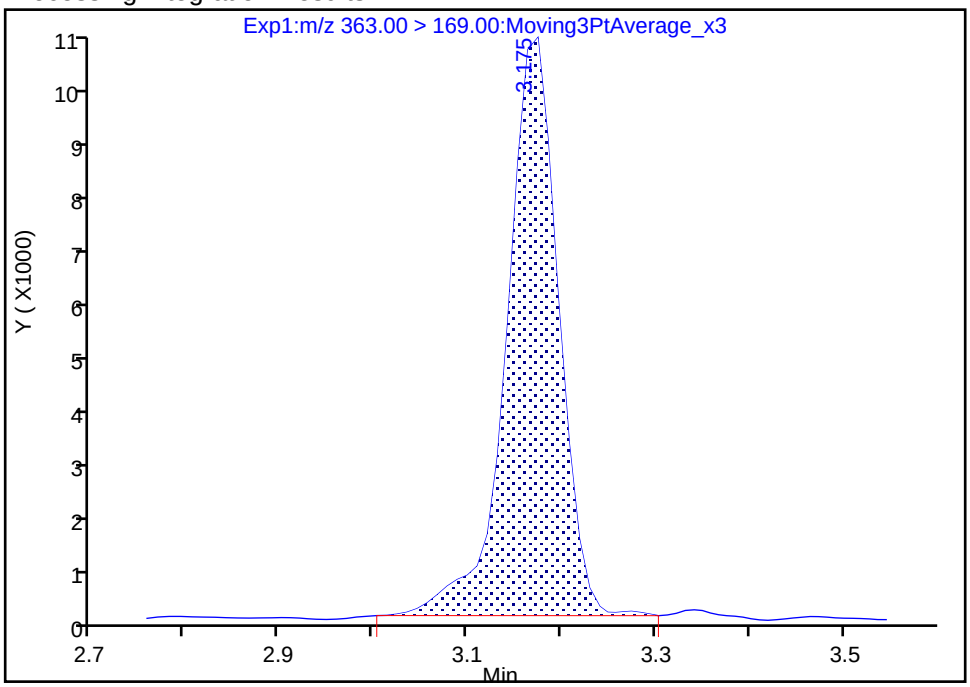
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Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

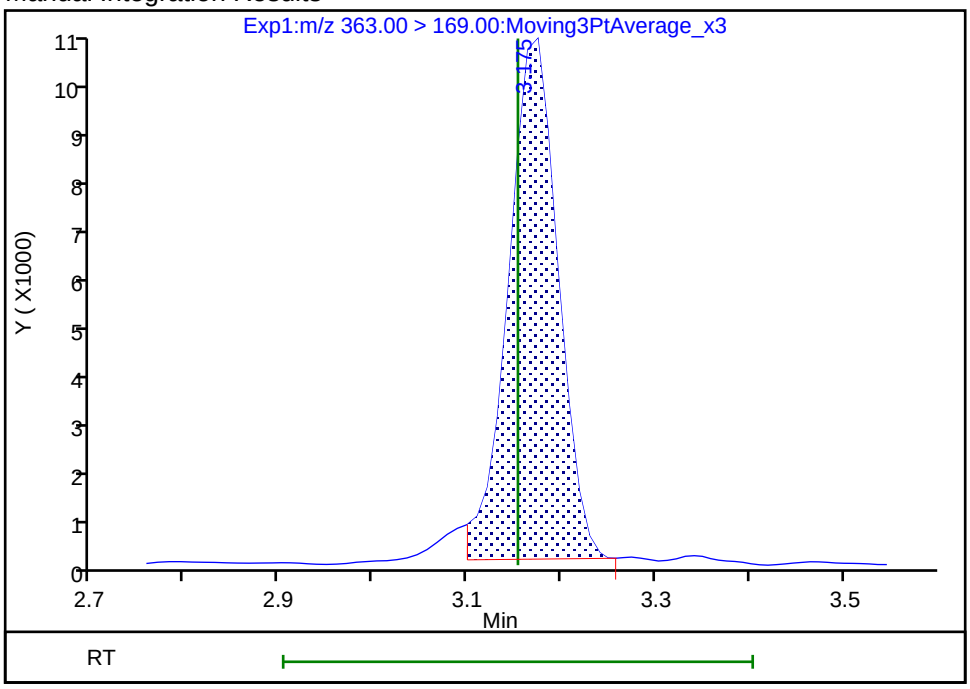
Processing Integration Results

RT: 3.17
Area: 40036
Amount: 0.132005
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 38023
Amount: 0.124272
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:00:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

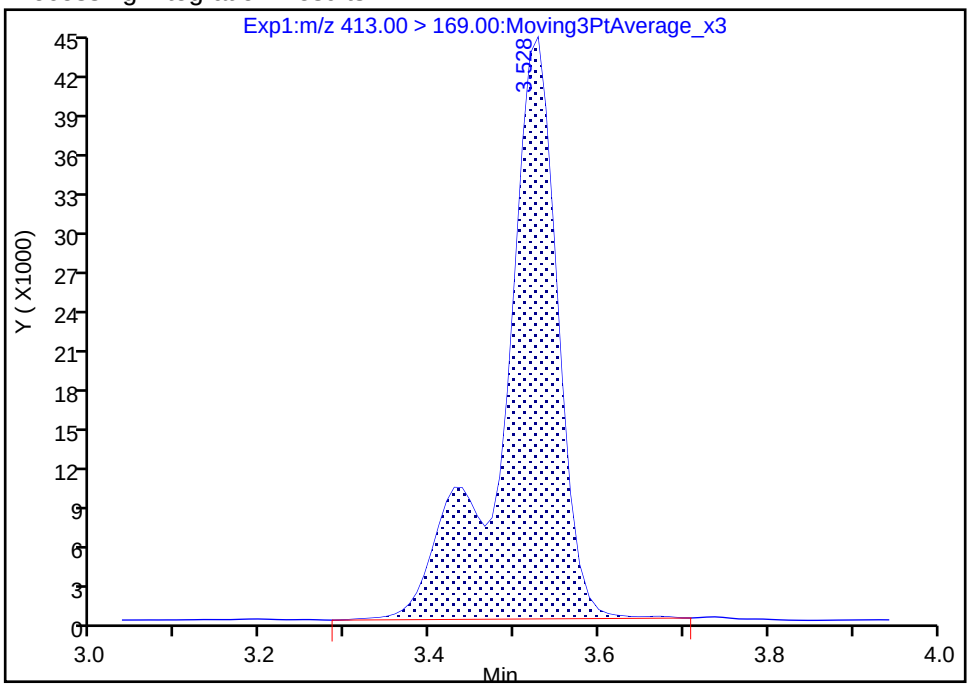
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Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

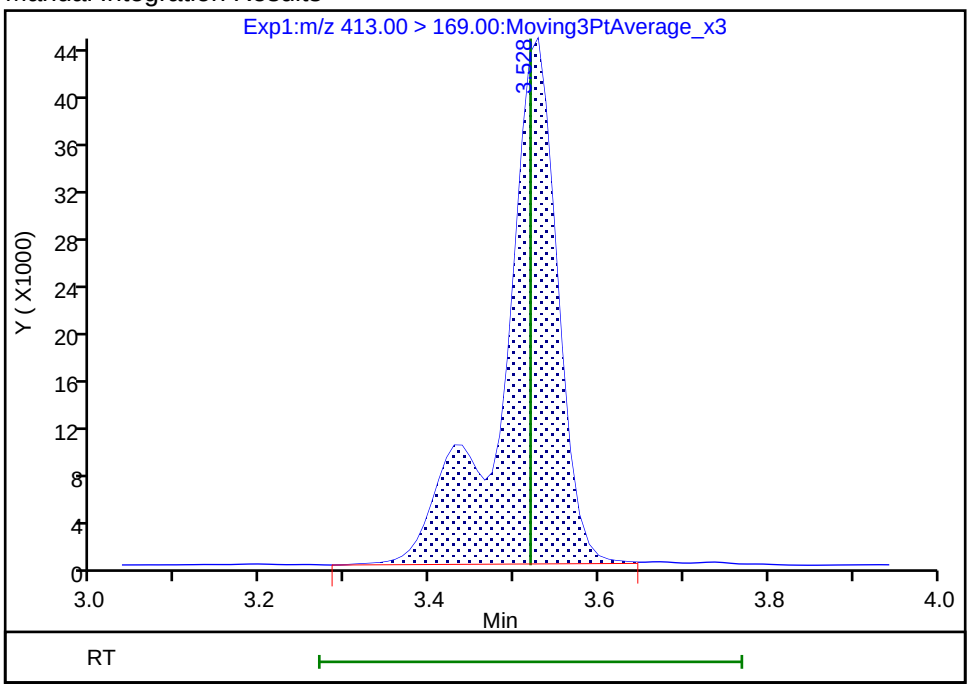
Processing Integration Results

RT: 3.53
Area: 200224
Amount: 0.408120
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 199933
Amount: 0.408120
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:00:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

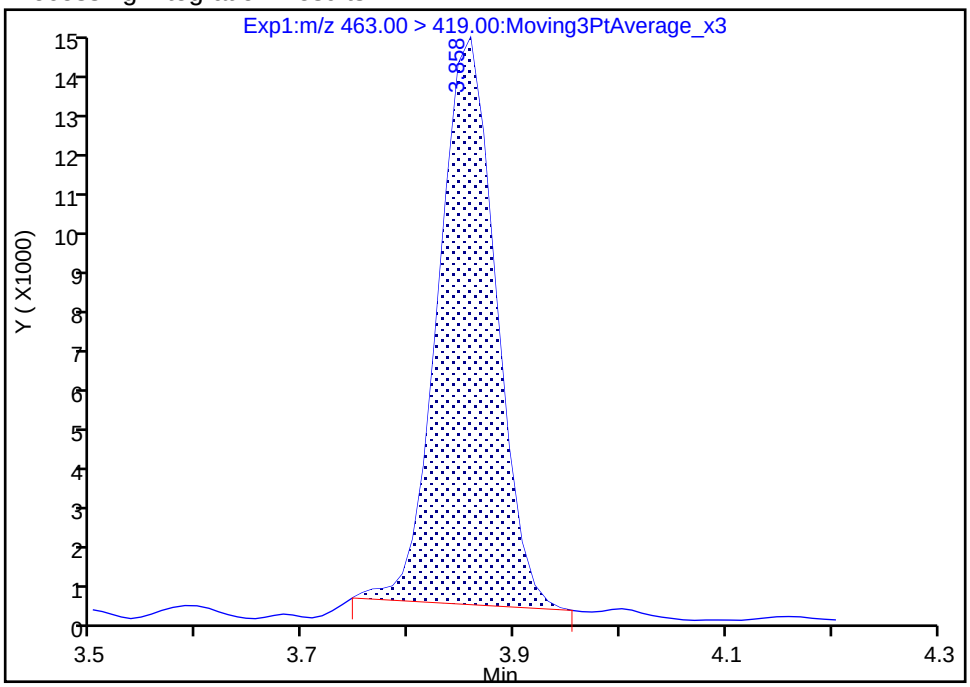
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Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

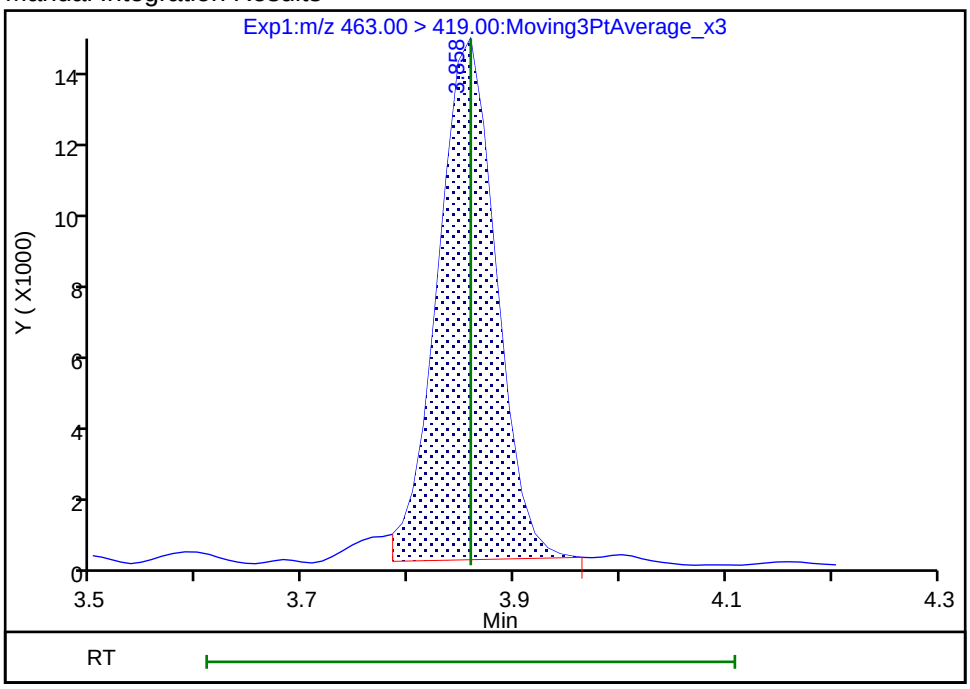
Processing Integration Results

RT: 3.86
Area: 51707
Amount: 0.051324
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 53377
Amount: 0.052982
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:02:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

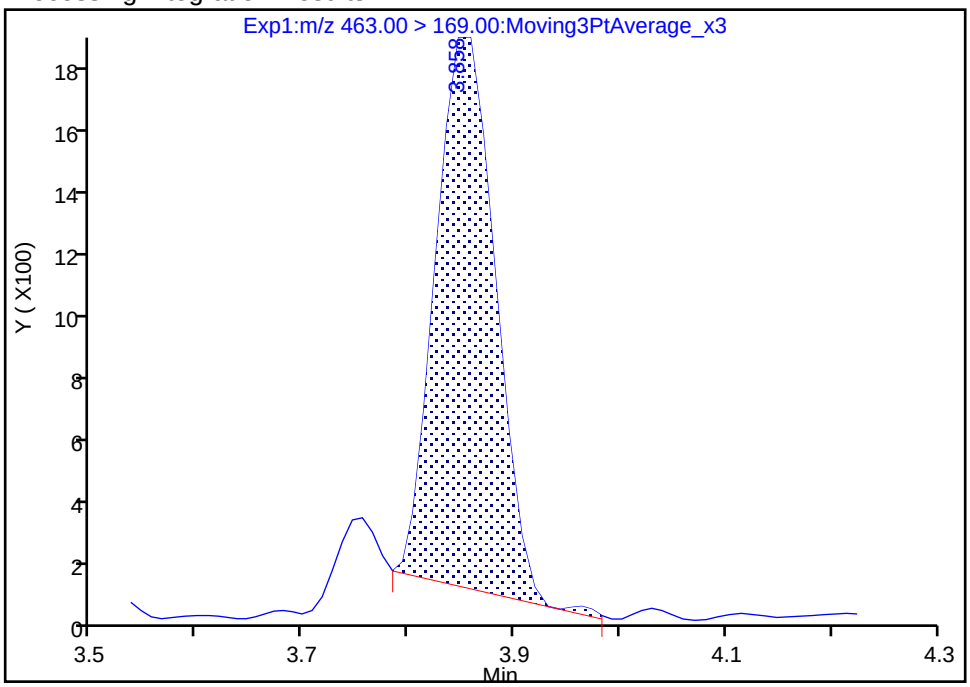
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Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

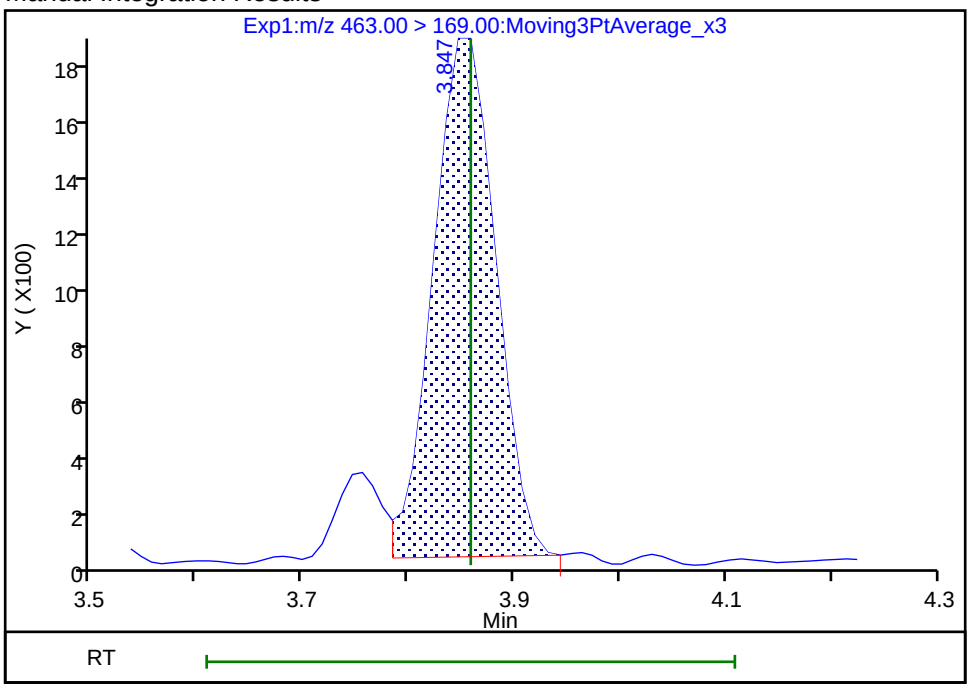
Processing Integration Results

RT: 3.86
Area: 6867
Amount: 0.051324
Amount Units: ng/ml



Manual Integration Results

RT: 3.85
Area: 7447
Amount: 0.052982
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:02:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

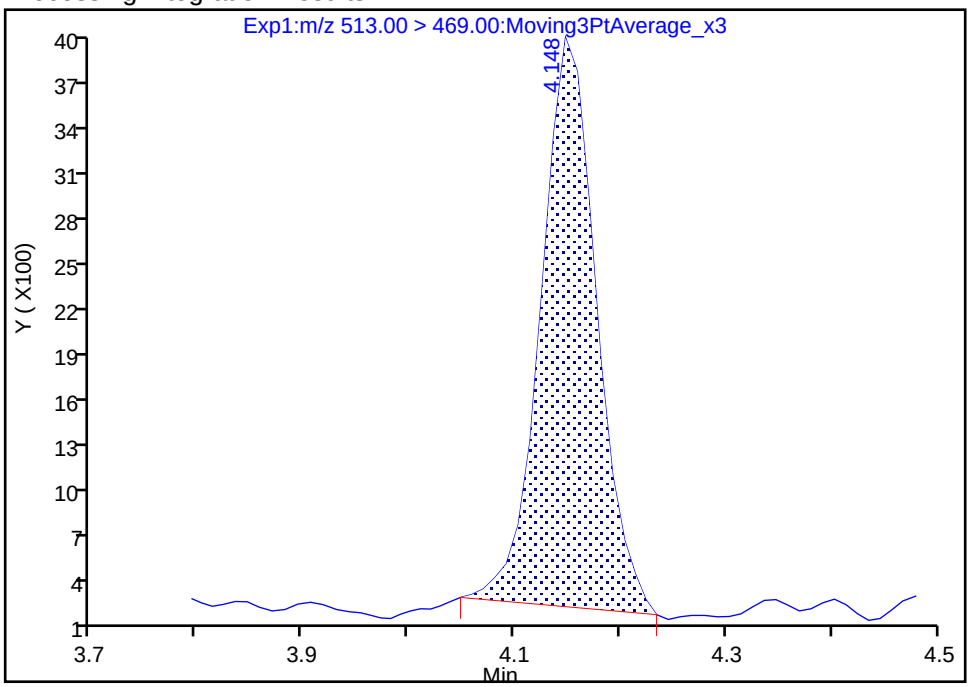
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Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

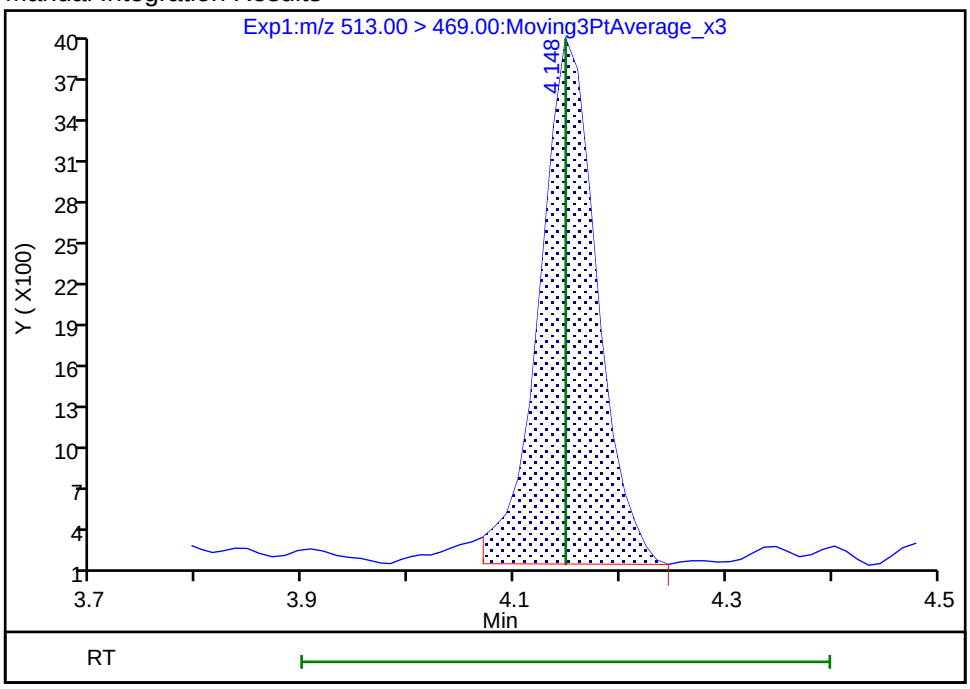
Processing Integration Results

RT: 4.15
Area: 13477
Amount: 0.013413
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 14211
Amount: 0.014143
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:02:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

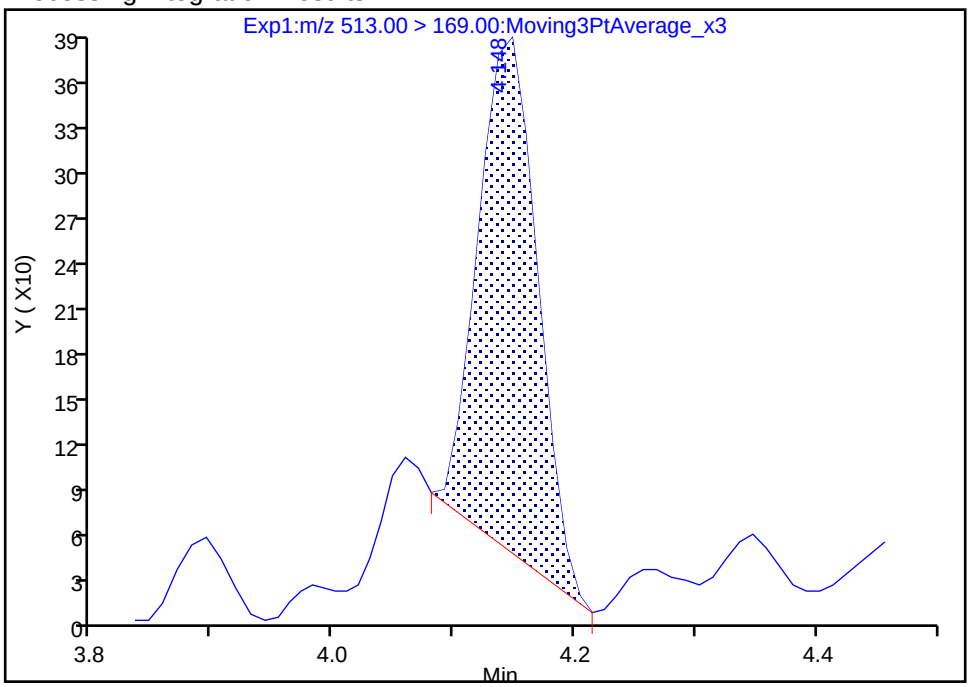
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Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

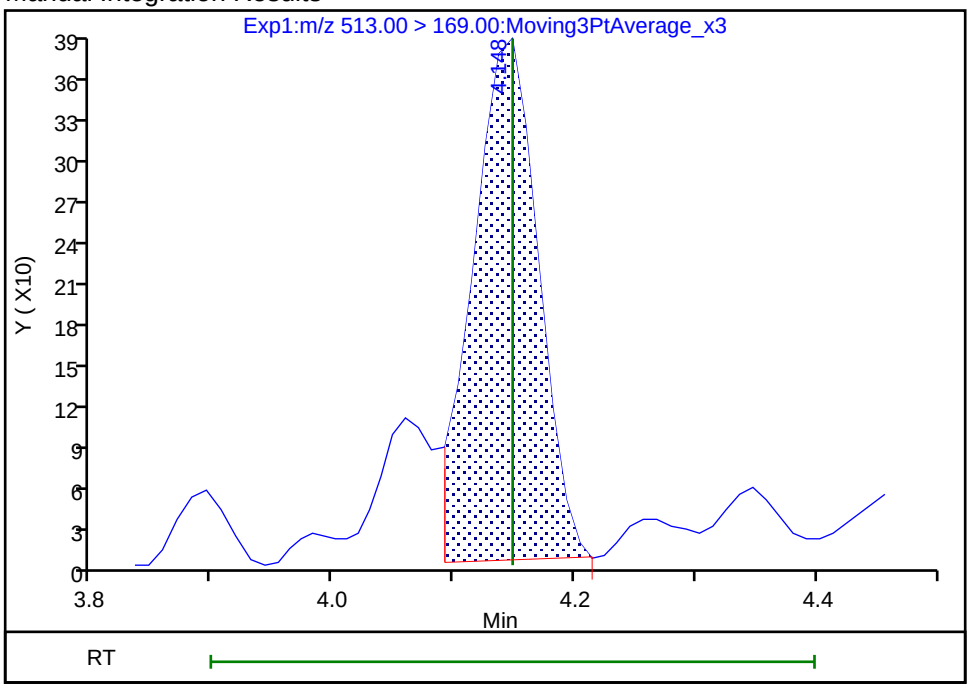
Processing Integration Results

RT: 4.15
Area: 1136
Amount: 0.013413
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 1401
Amount: 0.014143
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:26:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

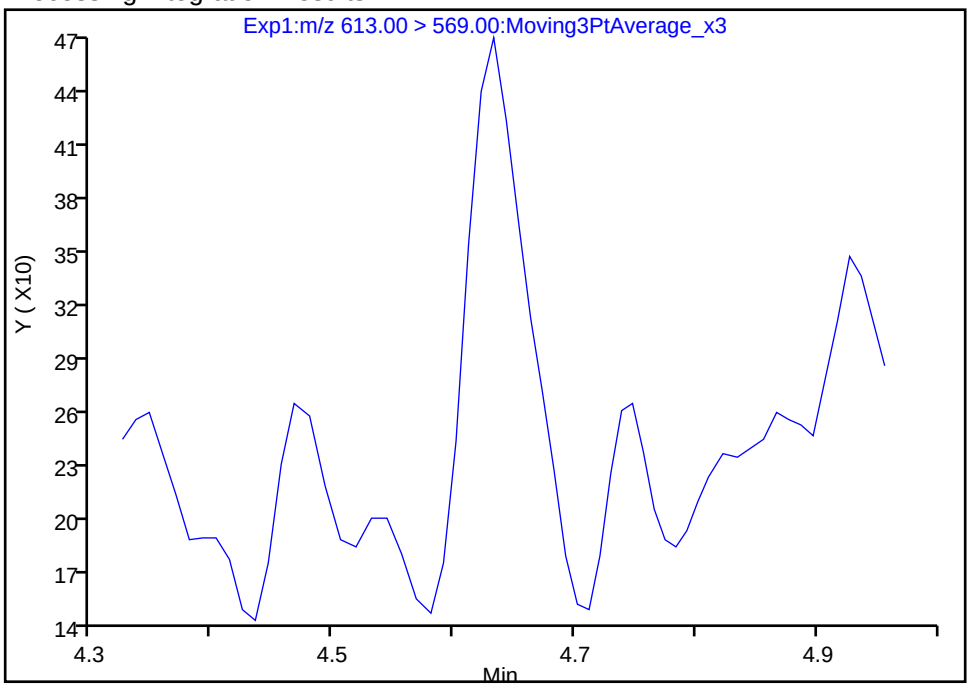
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
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Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. 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

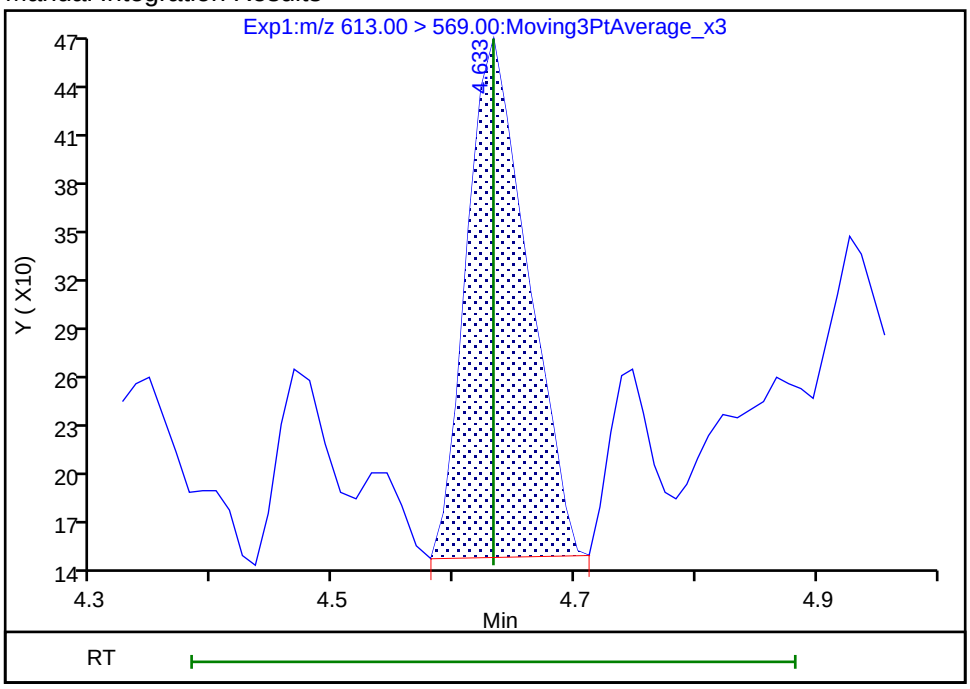
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.63
Area: 1119
Amount: 0.001658
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:04:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

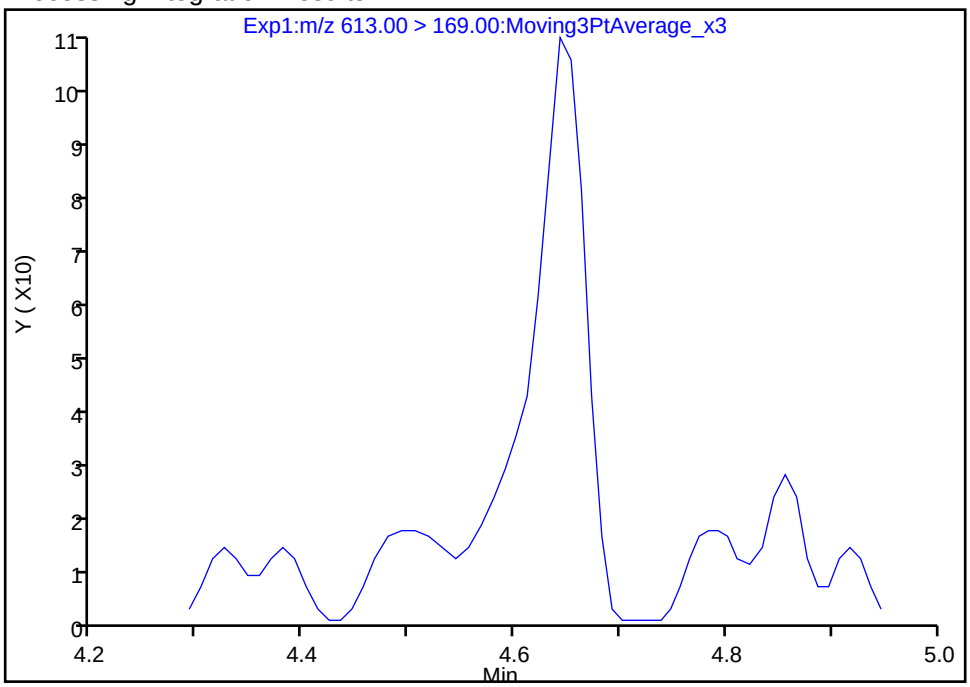
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Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

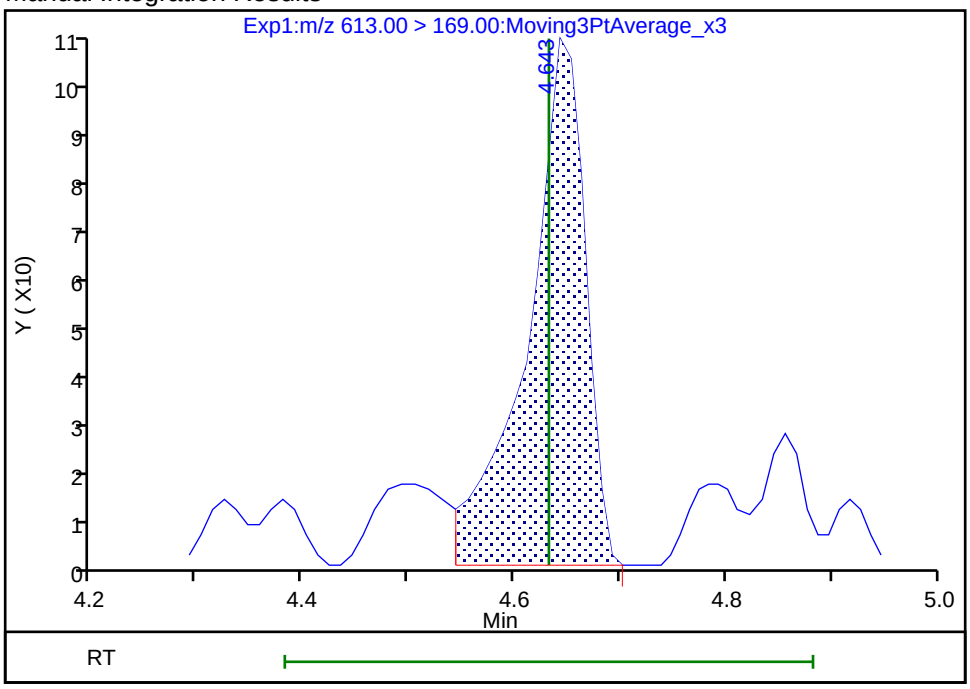
Processing Integration Results

Not Detected
Expected RT: 4.63



Manual Integration Results

RT: 4.64
Area: 393
Amount: 0.001658
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:04:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

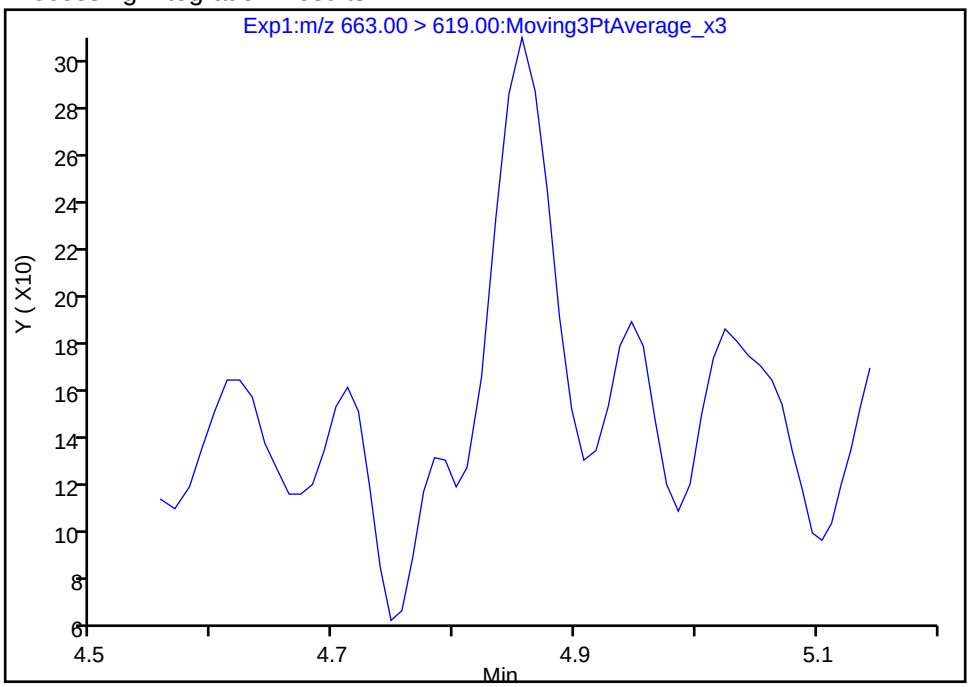
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

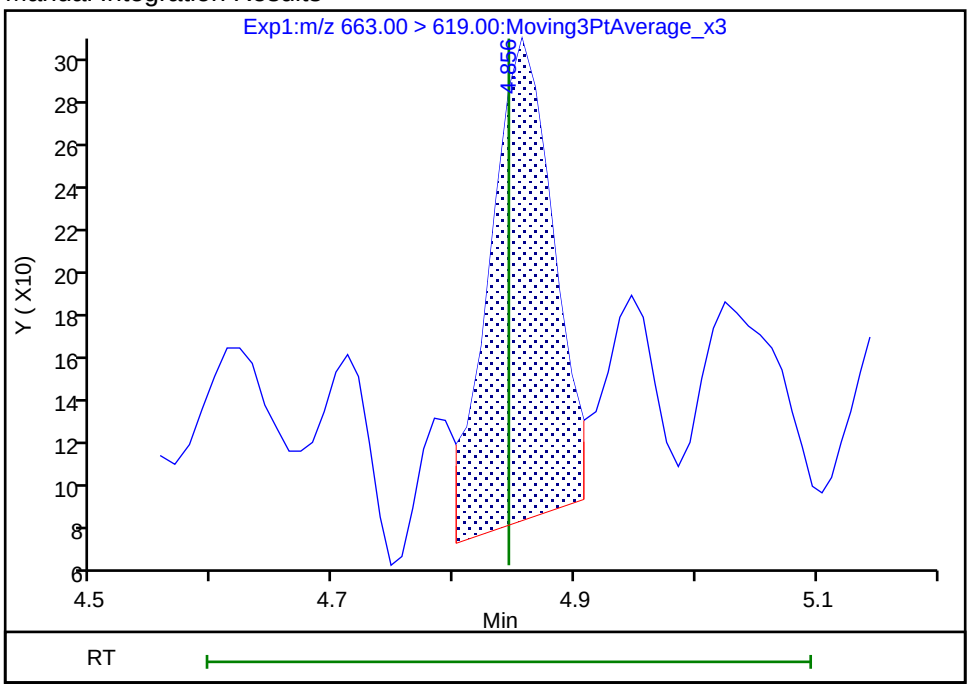
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 801
Amount: 0.001377
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:04:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

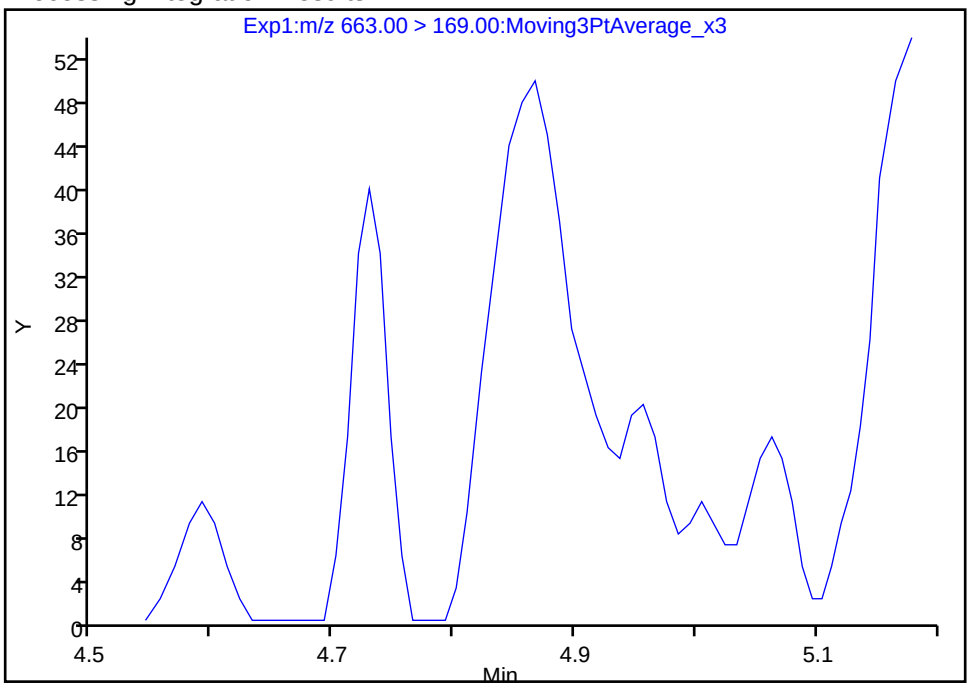
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

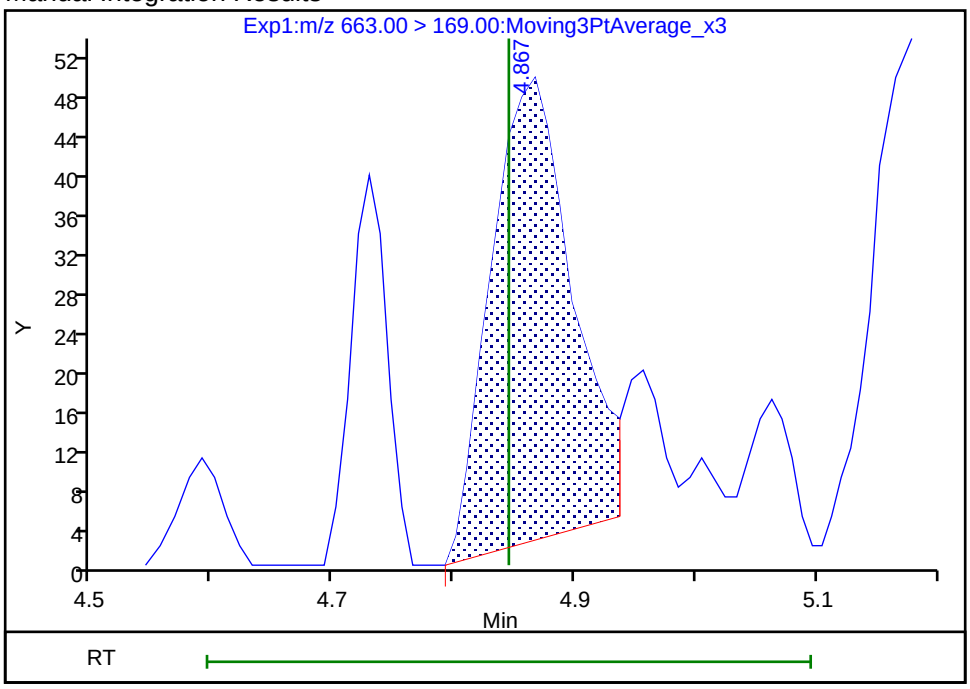
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.87
Area: 222
Amount: 0.001377
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:04:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

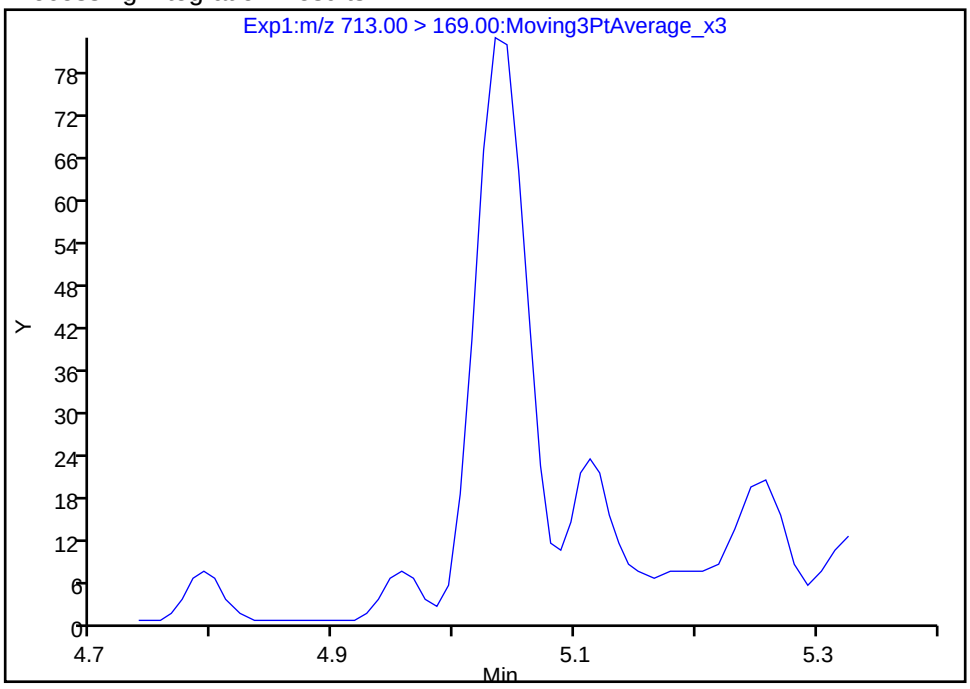
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

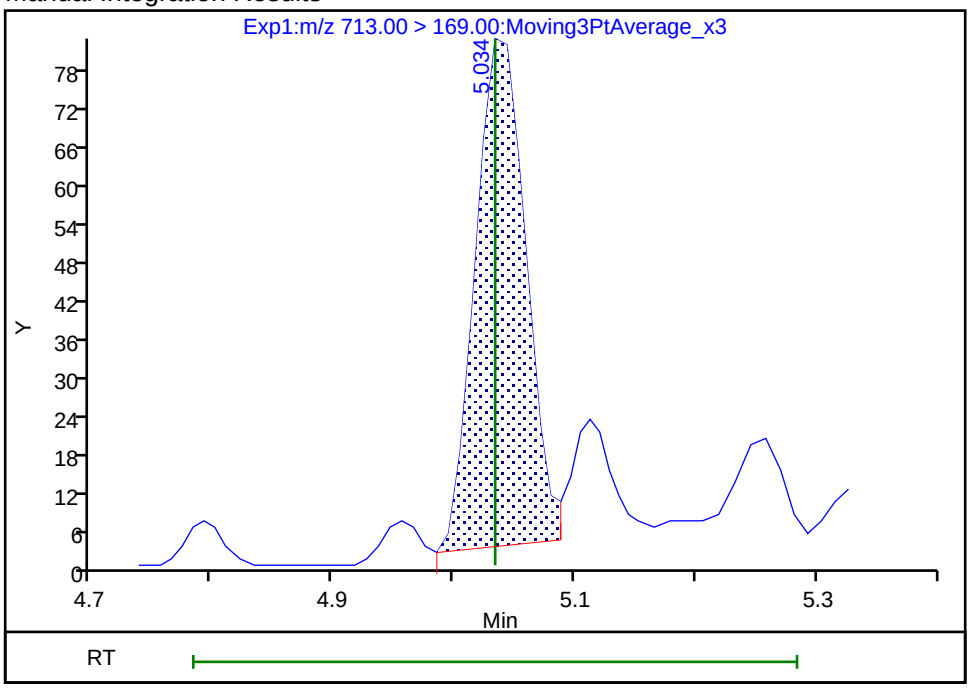
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 232
Amount: 0.002598
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:04:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

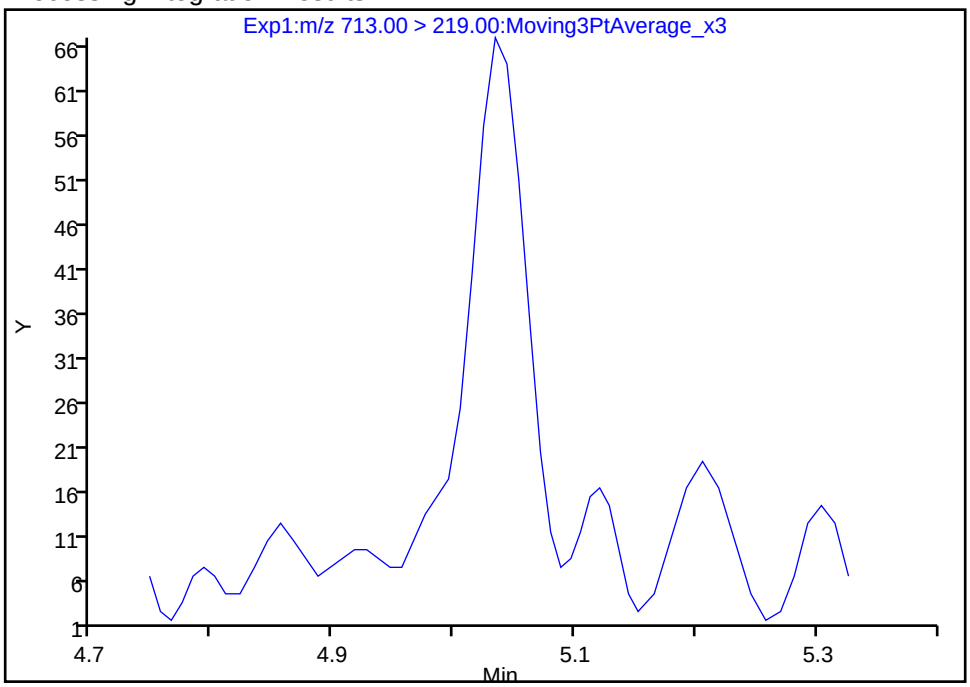
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

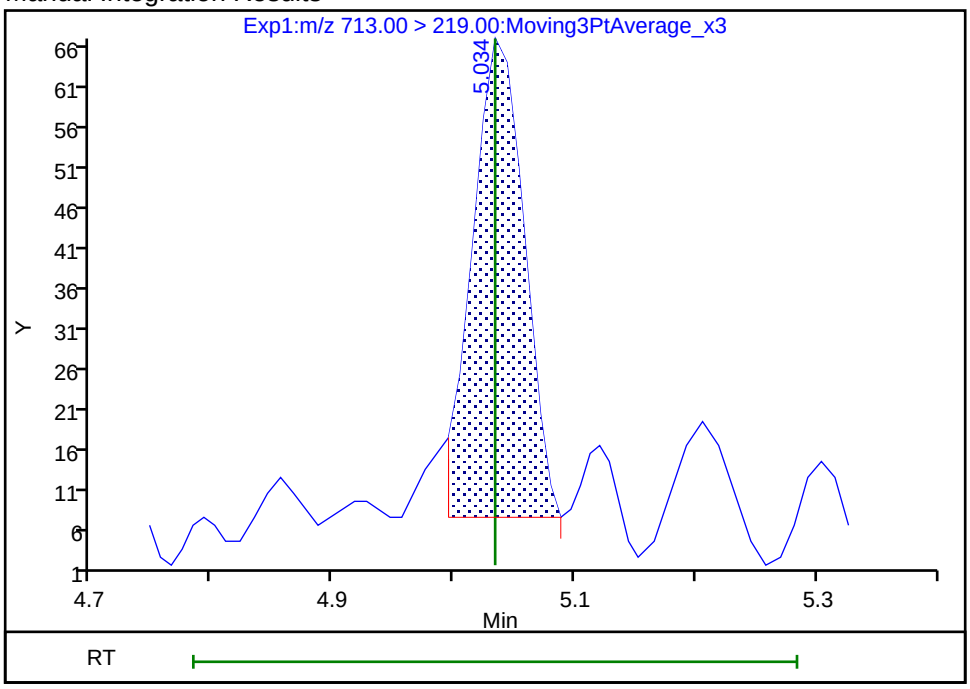
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 178
Amount: 0.002598
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:04:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

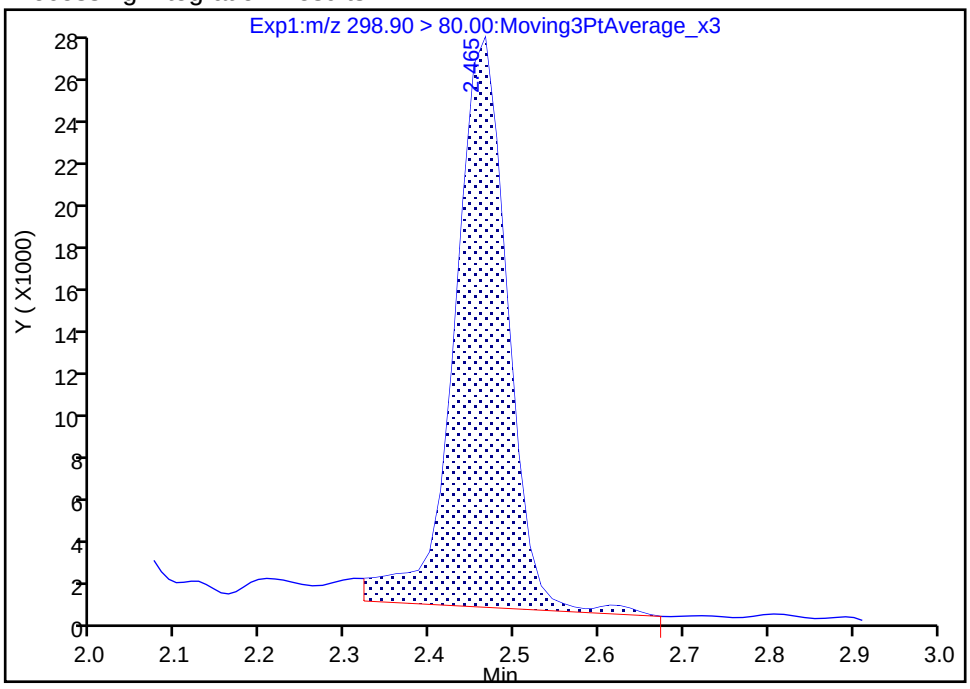
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

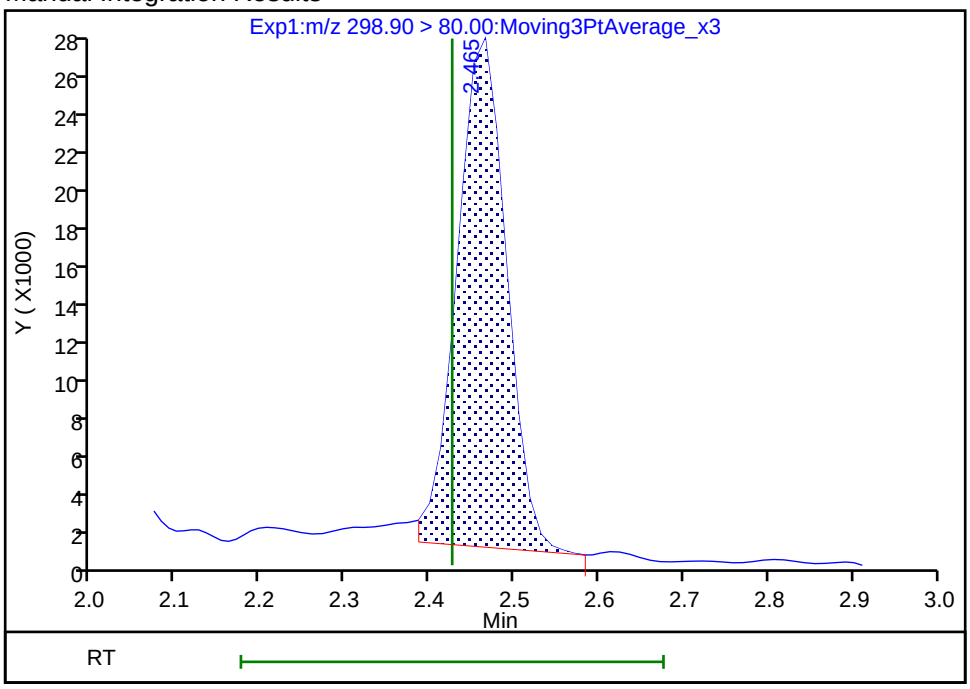
Processing Integration Results

RT: 2.47
Area: 112465
Amount: 0.098047
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 103085
Amount: 0.089870
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:59:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

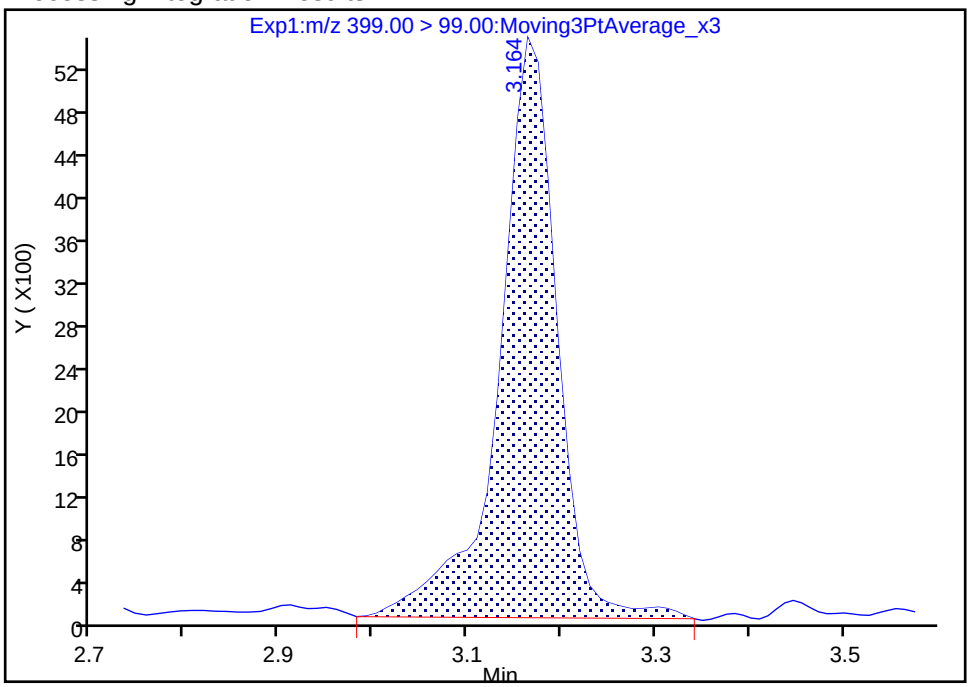
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

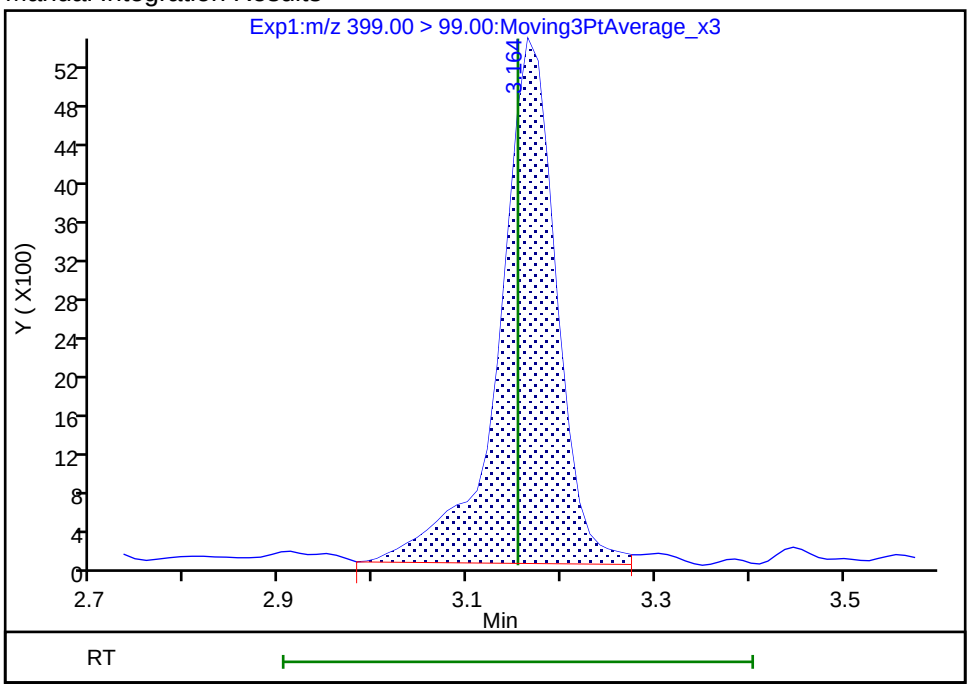
Processing Integration Results

RT: 3.16
Area: 22717
Amount: 0.099325
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 22515
Amount: 0.099325
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:59:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

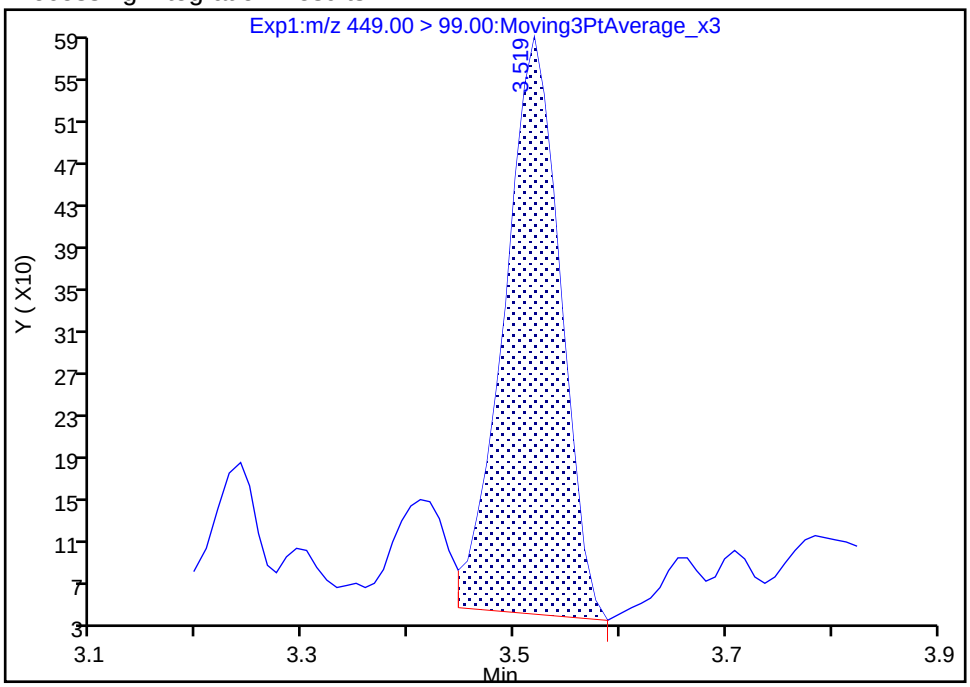
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

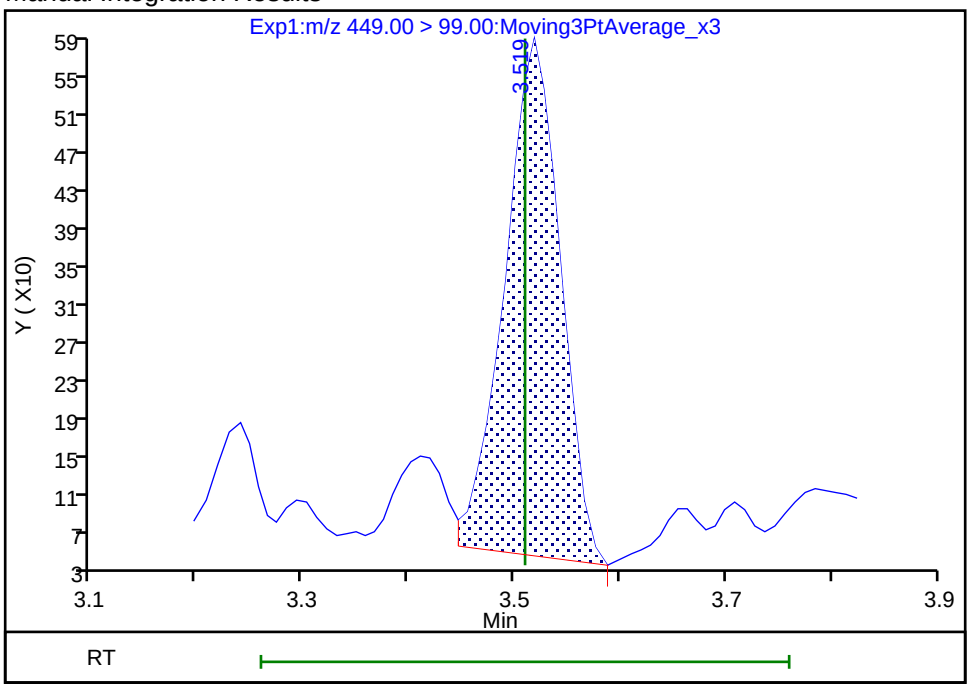
Processing Integration Results

RT: 3.52
Area: 2004
Amount: 0.013677
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 1970
Amount: 0.013677
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:00:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

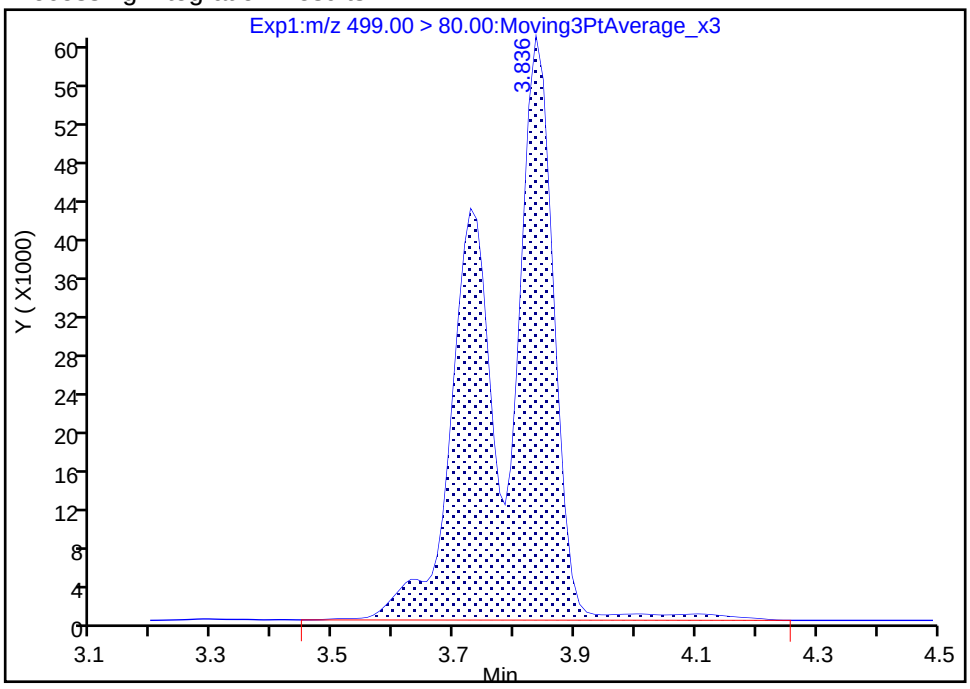
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

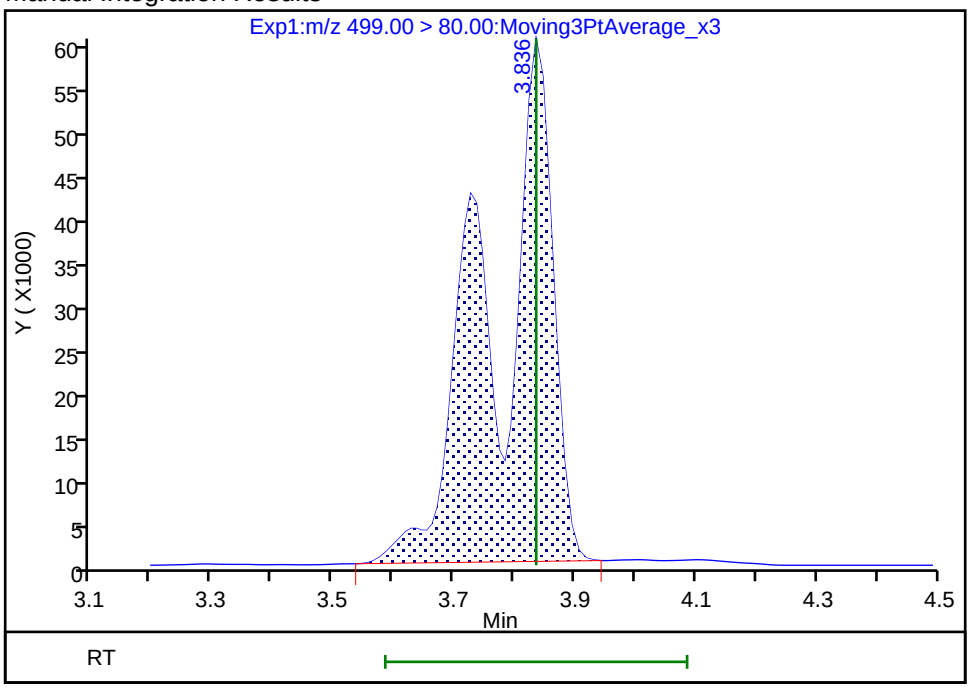
Processing Integration Results

RT: 3.84
Area: 434026
Amount: 0.657800
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 417835
Amount: 0.633262
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:00:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

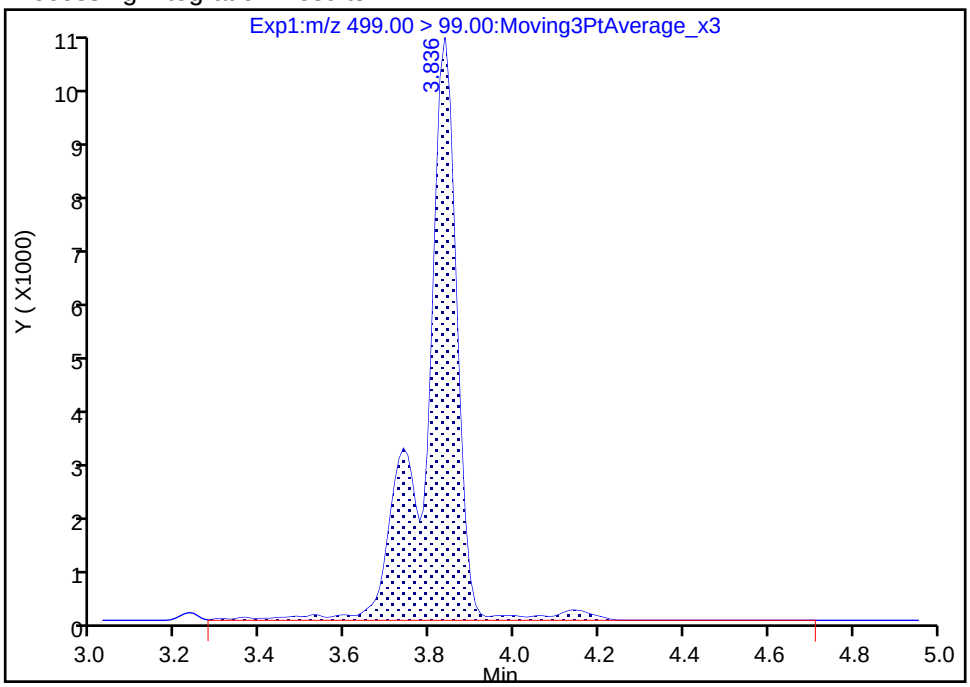
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

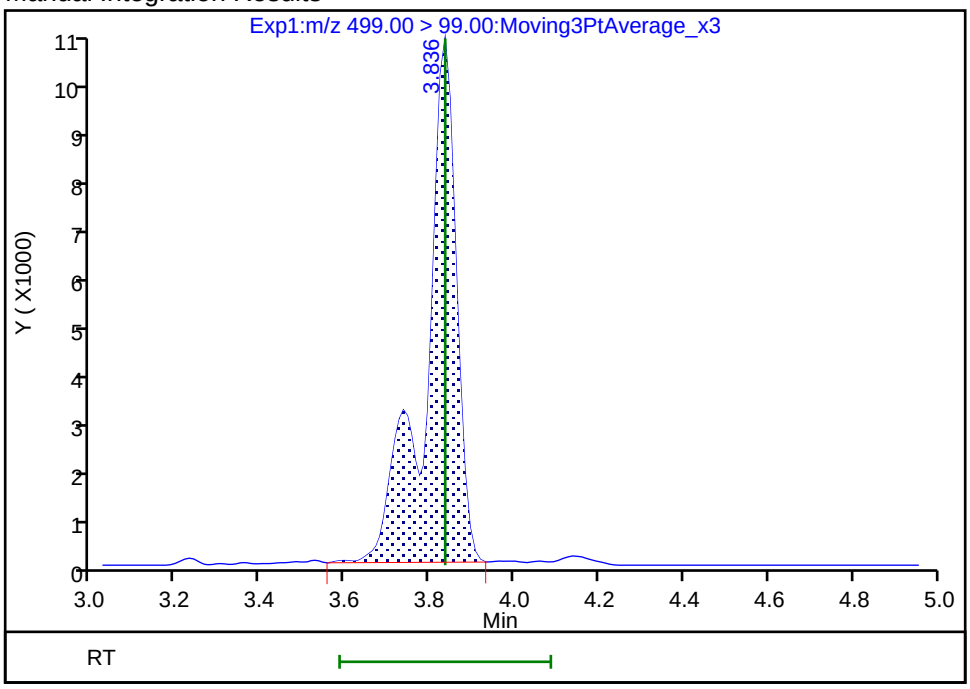
Processing Integration Results

RT: 3.84
Area: 55223
Amount: 0.657800
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 51687
Amount: 0.633262
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:01:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

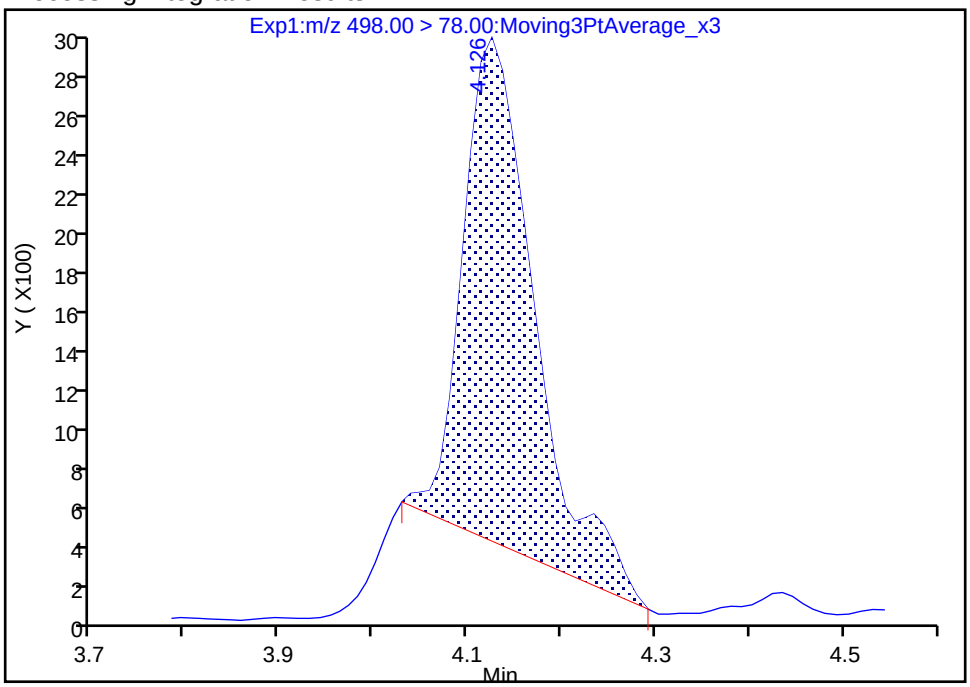
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

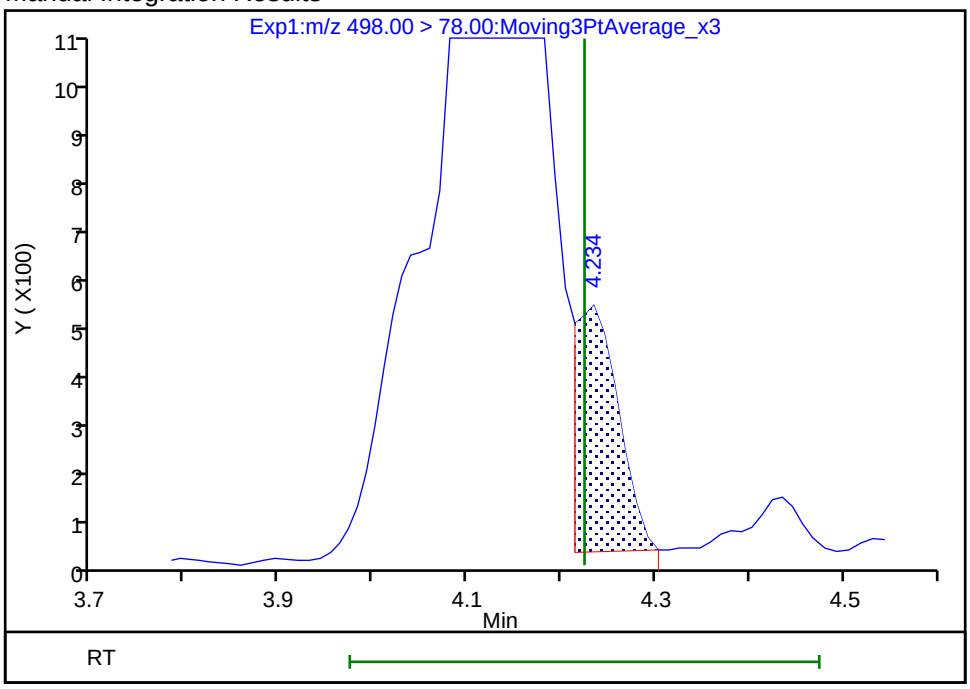
Processing Integration Results

RT: 4.13
Area: 13241
Amount: 0.014241
Amount Units: ng/ml



Manual Integration Results

RT: 4.23
Area: 1499
Amount: 0.001612
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:03:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

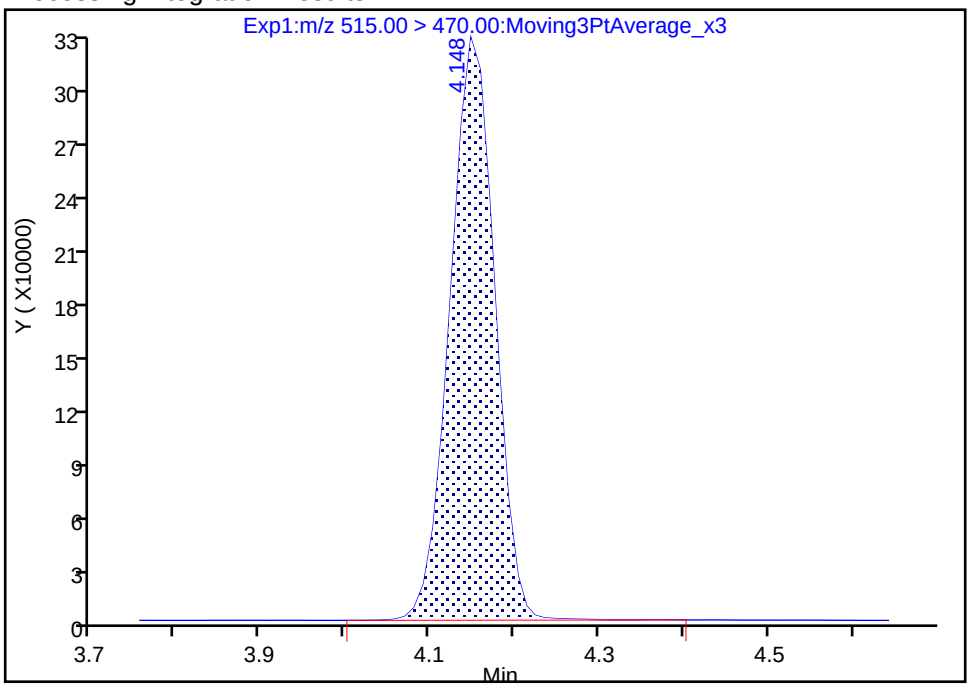
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

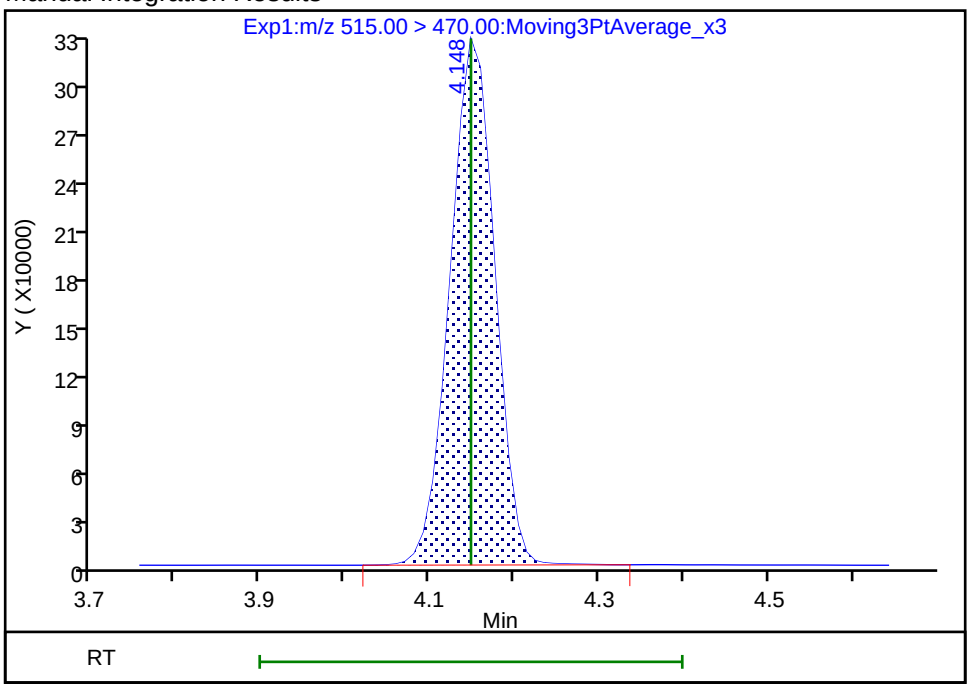
Processing Integration Results

RT: 4.15
Area: 1181147
Amount: 1.226536
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 1179959
Amount: 1.225302
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:58:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

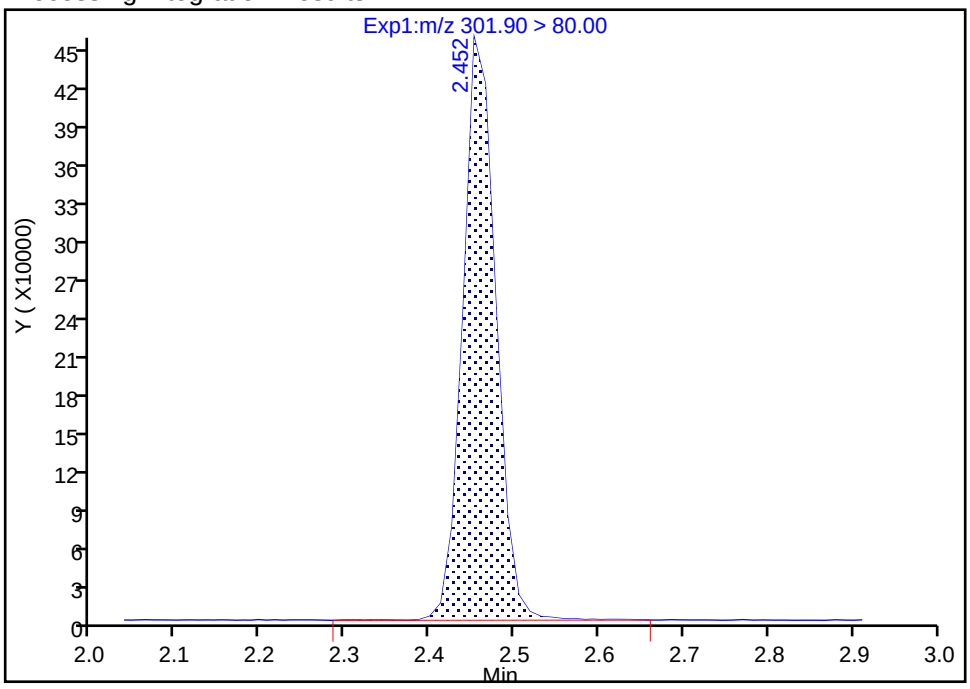
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

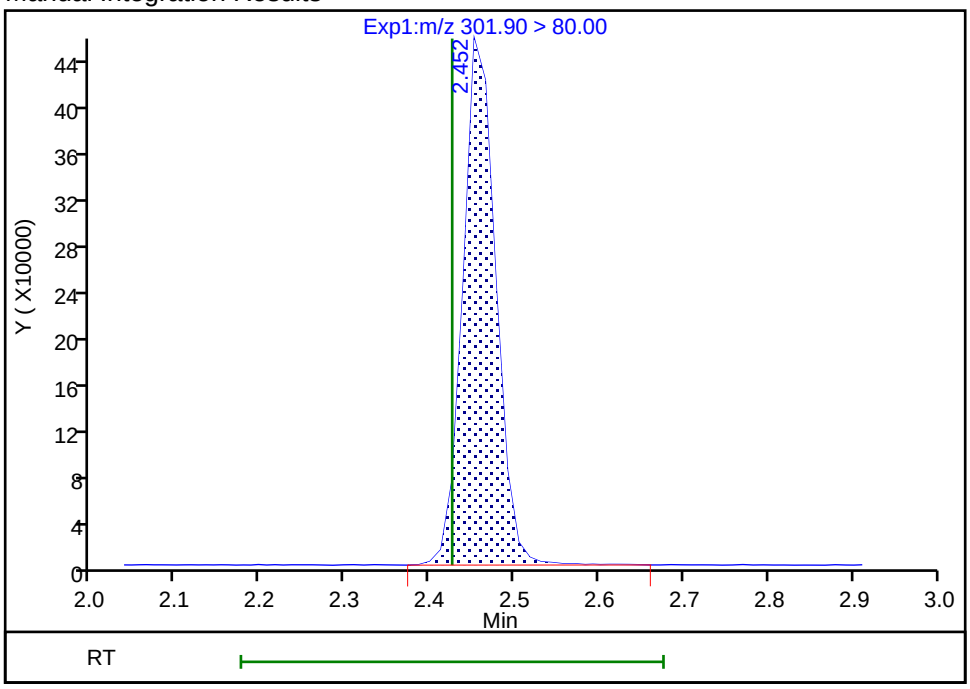
Processing Integration Results

RT: 2.45
Area: 1236350
Amount: 1.190346
Amount Units: ng/ml



Manual Integration Results

RT: 2.45
Area: 1234512
Amount: 1.188577
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:57:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

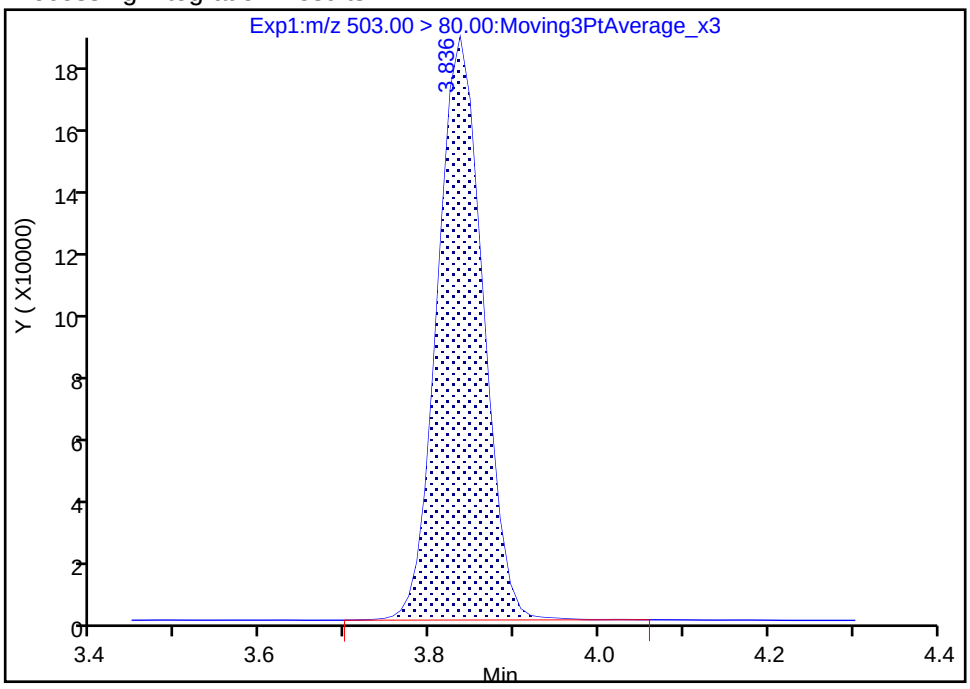
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

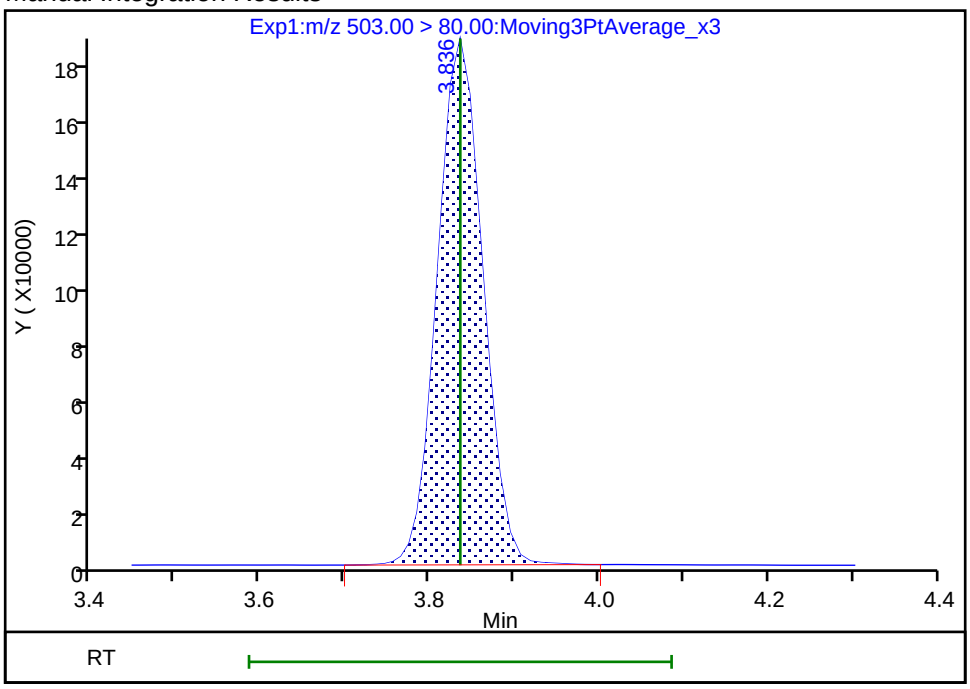
Processing Integration Results

RT: 3.84
Area: 704276
Amount: 1.169655
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 703566
Amount: 1.168476
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:57:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

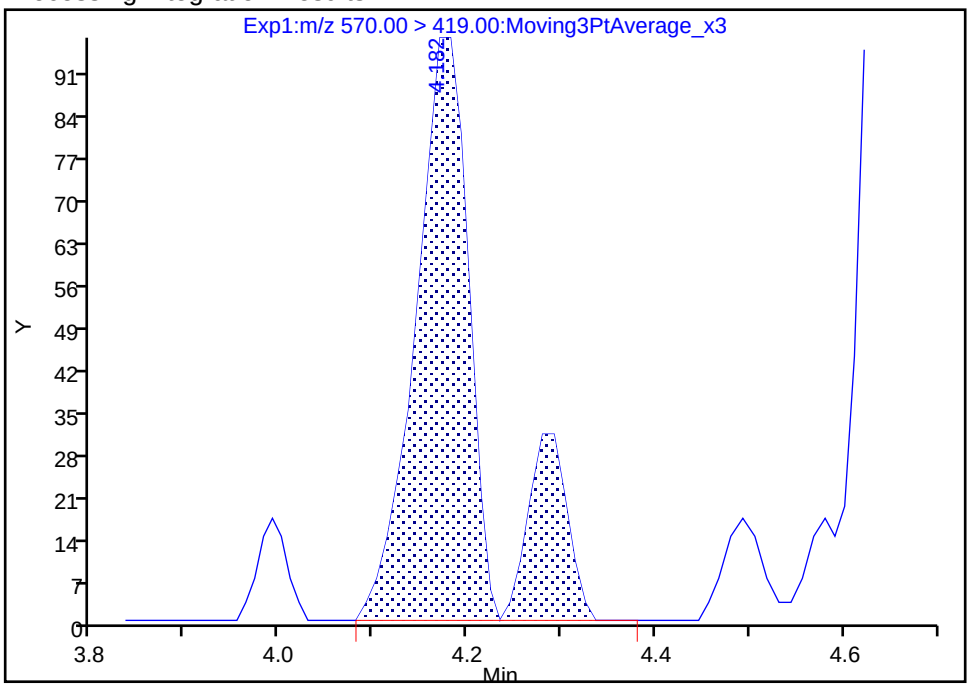
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

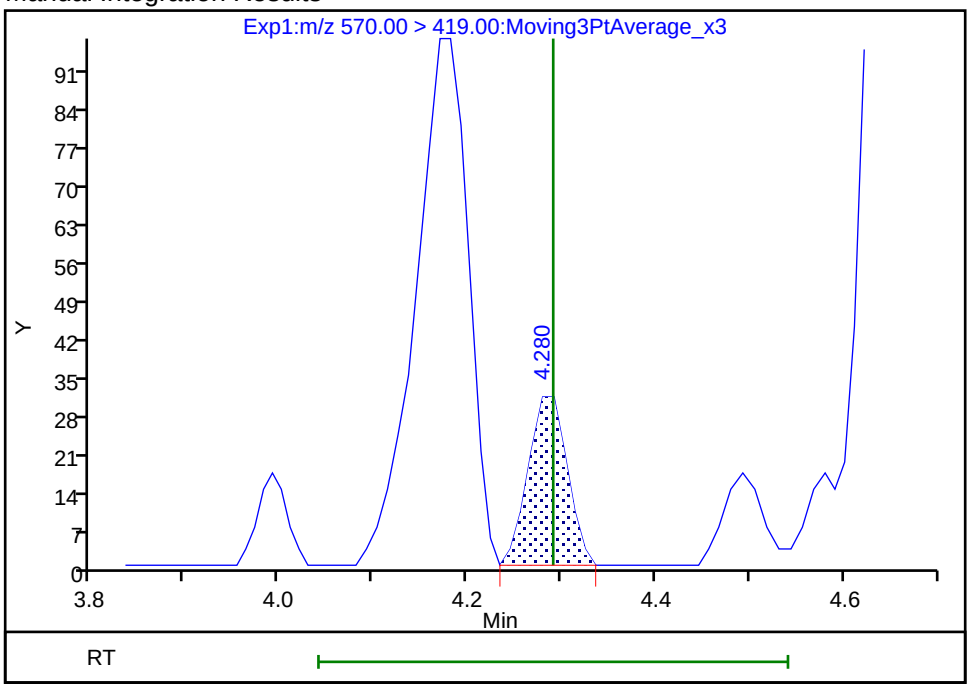
Processing Integration Results

RT: 4.18
Area: 466
Amount: 0.008992
Amount Units: ng/ml



Manual Integration Results

RT: 4.28
Area: 90
Amount: 0.001737
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:03:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

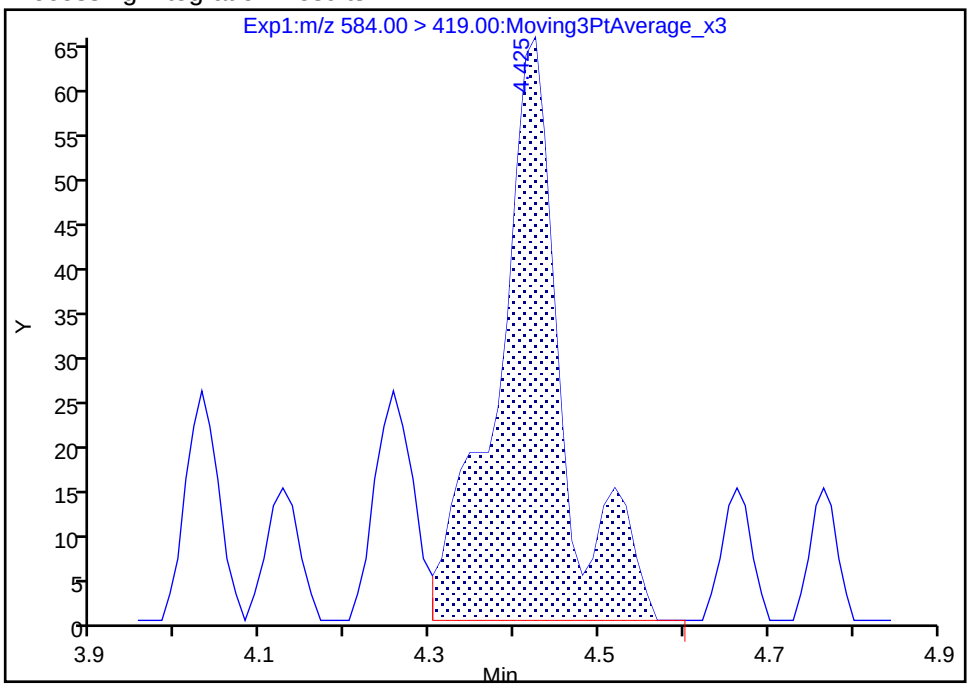
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

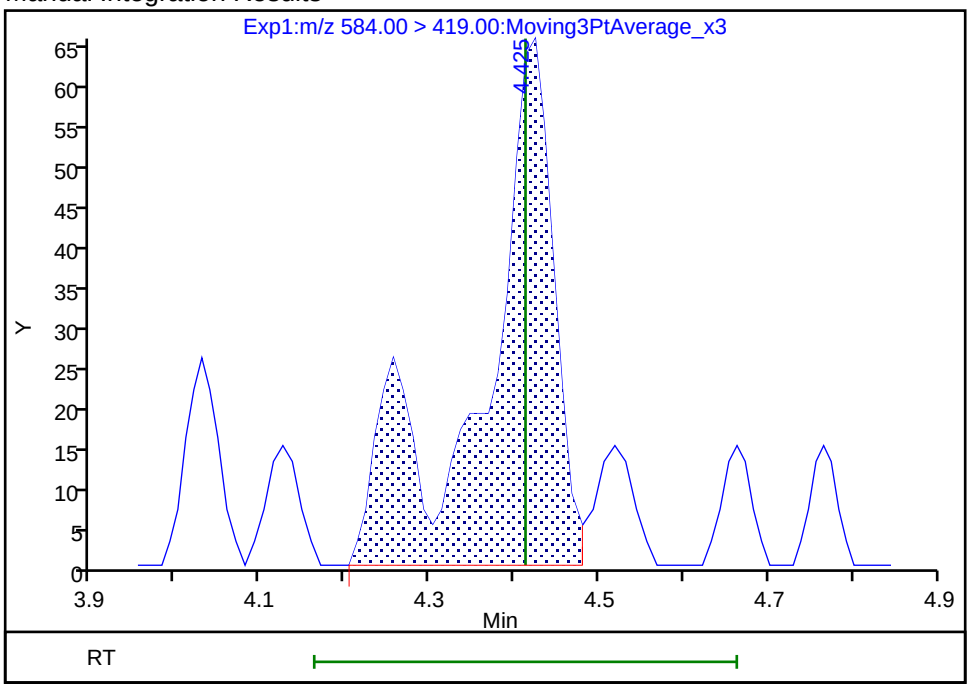
Processing Integration Results

RT: 4.42
Area: 349
Amount: 0.006524
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 384
Amount: 0.007178
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:03:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

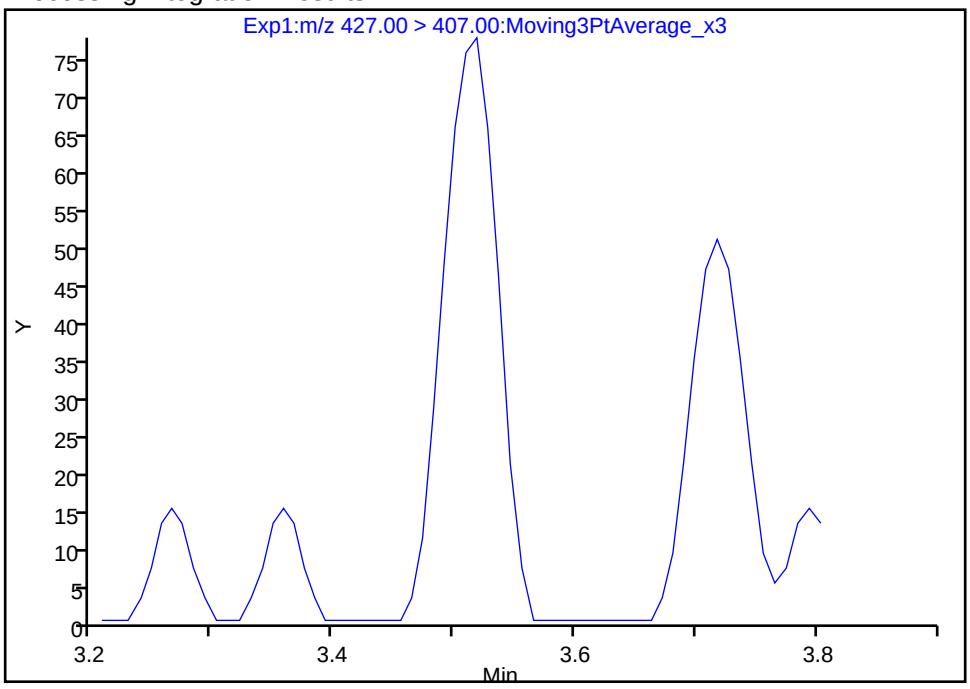
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

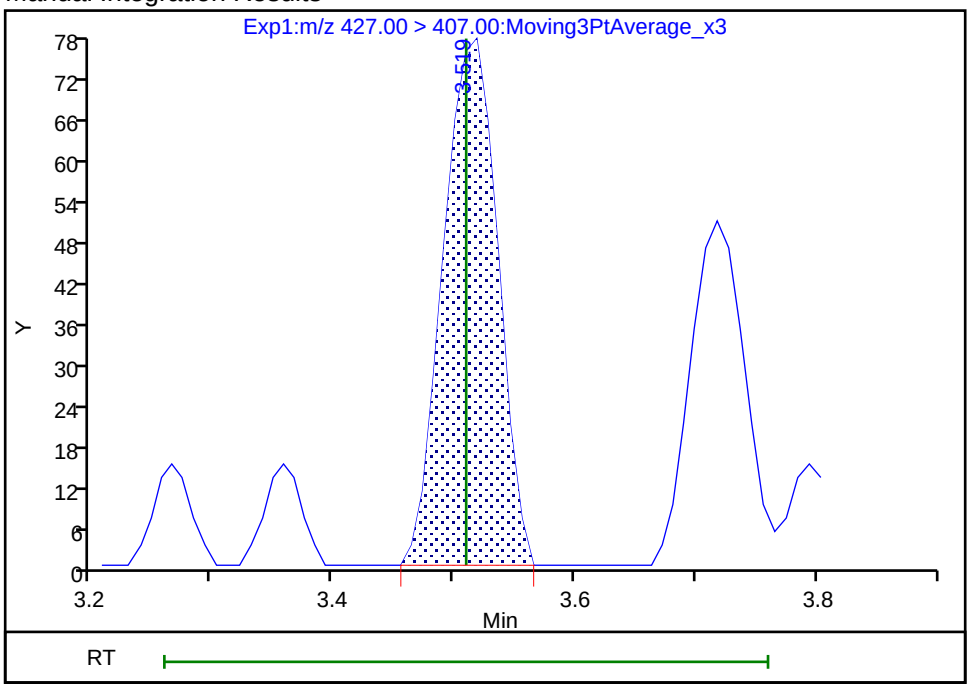
Processing Integration Results

Not Detected
Expected RT: 3.51



Manual Integration Results

RT: 3.52
Area: 244
Amount: 0.001986
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:00:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

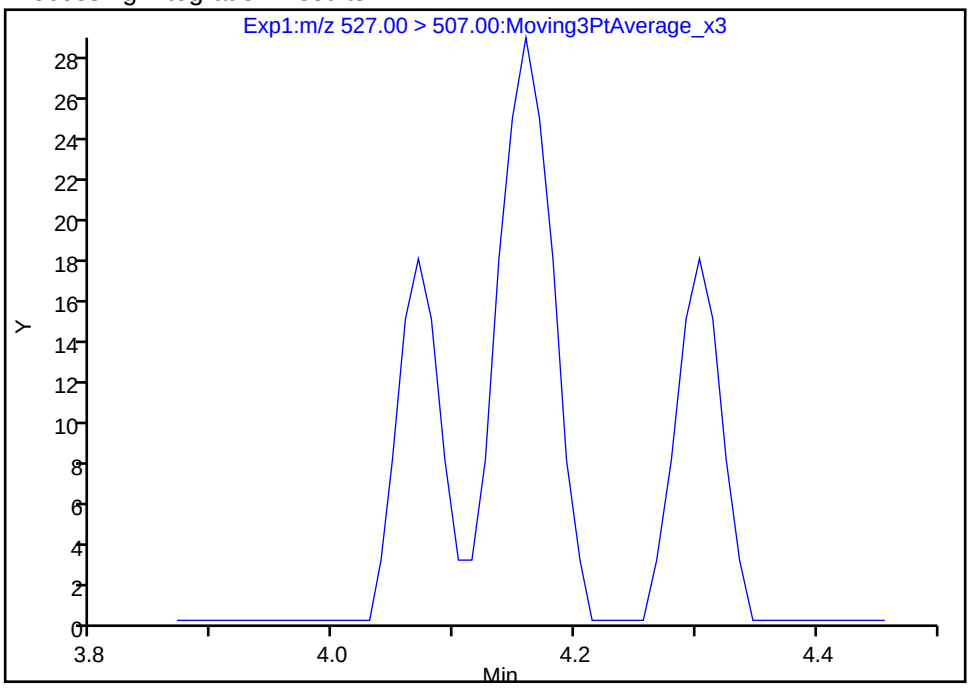
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

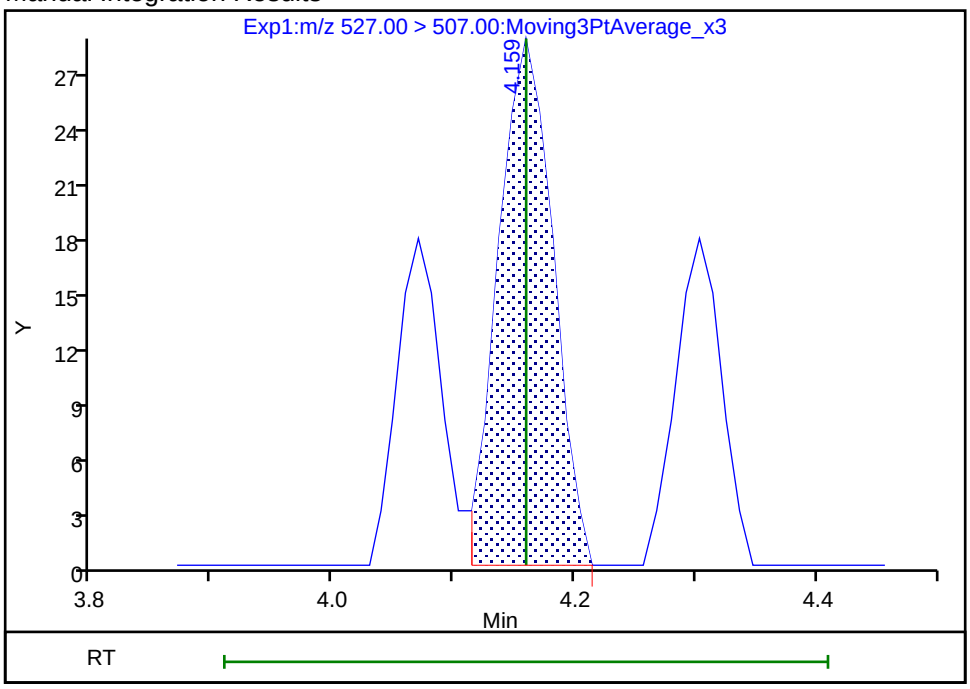
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 90
Amount: 0.001378
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:03:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

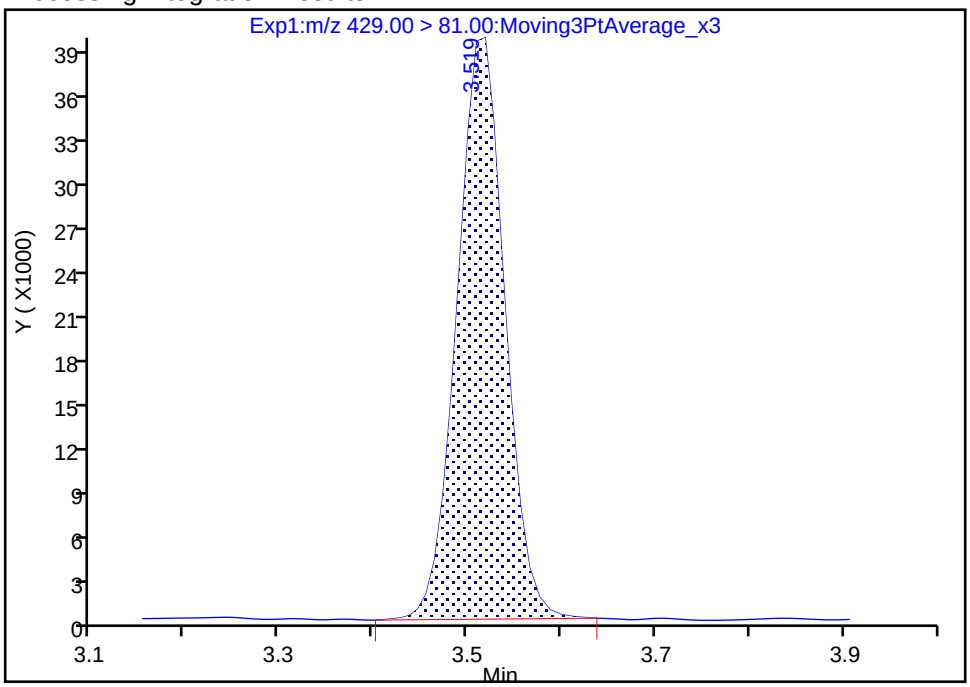
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

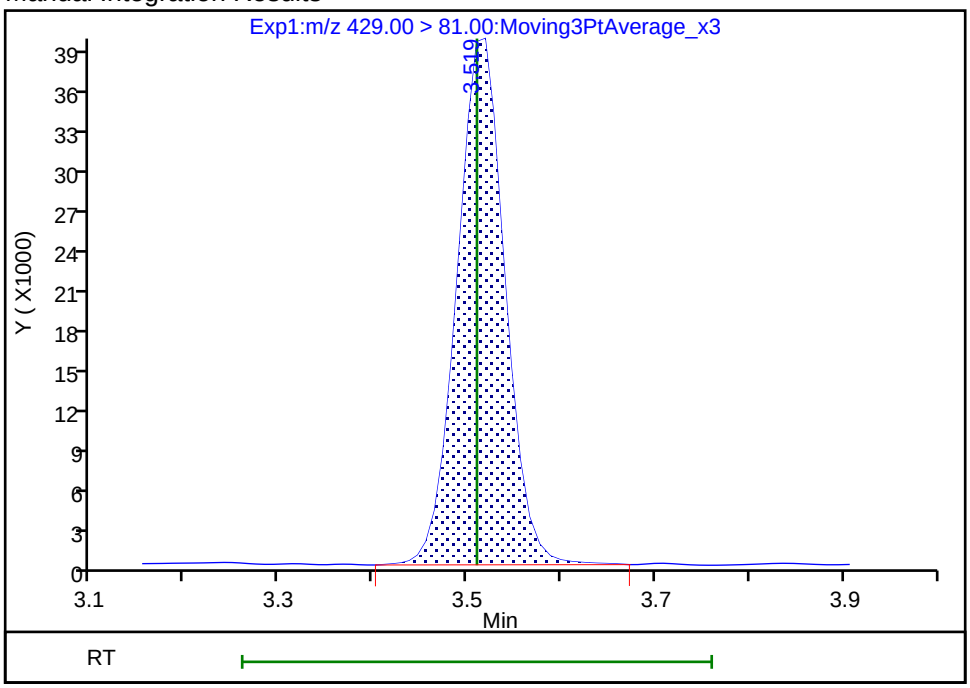
Processing Integration Results

RT: 3.52
Area: 139921
Amount: 1.222581
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 140776
Amount: 1.230051
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:57:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

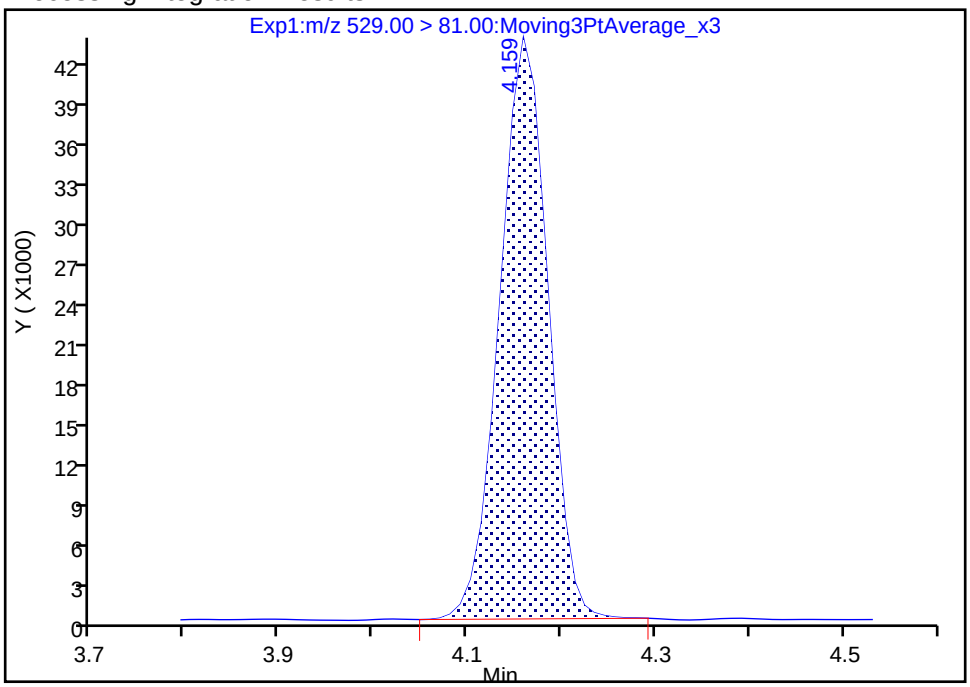
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A15.d				
Injection Date:	11-Aug-2021 14:41:33	Instrument ID:	LC812		
Lims ID:	480-188016-F-8-A	Lab Sample ID:	200-188016-8		
Client ID:	MW-99-02				
Operator ID:	lc812tech	ALS Bottle#:	12	Worklist Smp#:	15
Injection Vol:	20.0 ul	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

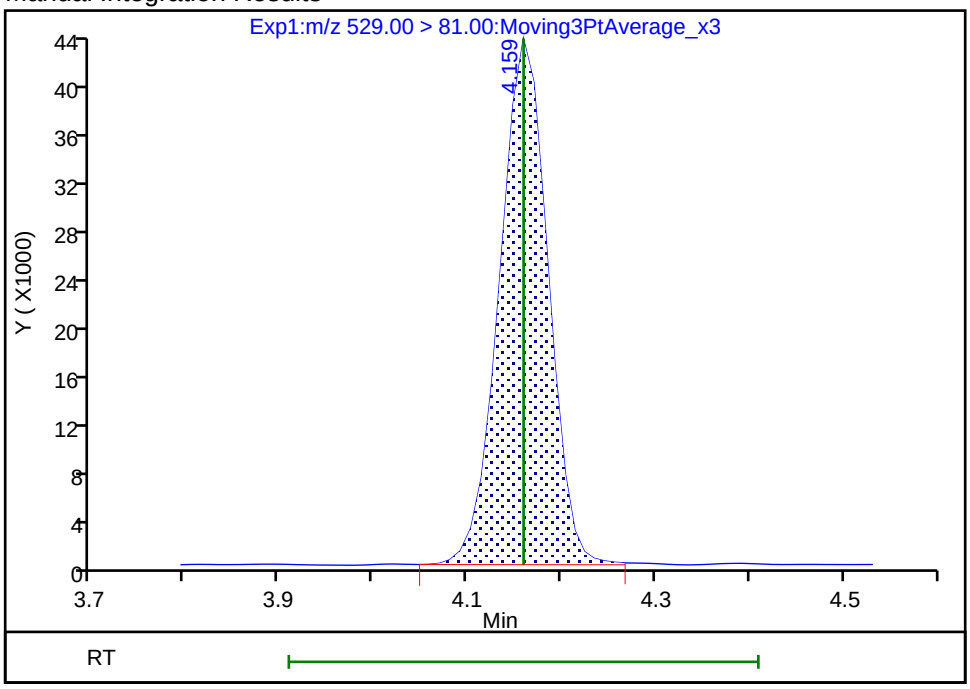
Processing Integration Results

RT: 4.16
Area: 156303
Amount: 1.146898
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 157033
Amount: 1.152255
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:58:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-04 Lab Sample ID: 480-188016-9

Matrix: Water Lab File ID: PA210811A16.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 13:27

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 260.3(mL) Date Analyzed: 08/11/2021 14:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.6	J	4.8	0.86
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.57	J	1.9	0.46
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.9	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	0.51	J	1.9	0.41
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.33
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.37
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.42
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.61
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.72	J B	1.9	0.24
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.29
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.29
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.55
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	0.87
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	0.71
27619-97-2	6:2 FTS	ND		4.8	1.1
39108-34-4	8:2 FTS	ND		1.9	0.37

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-99-04 Lab Sample ID: 480-188016-9

Matrix: Water Lab File ID: PA210811A16.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 13:27

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 260.3(mL) Date Analyzed: 08/11/2021 14:49

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	97		25-150
STL00992	13C4 PFBA	80		25-150
STL01893	13C5 PFPeA	96		25-150
STL00993	13C2 PFHxA	99		50-150
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	101		50-150
STL00995	13C5 PFNA	96		50-150
STL00996	13C2 PFDA	95		50-150
STL00997	13C2 PFUnA	87		50-150
STL00998	13C2 PFDoA	87		50-150
STL02116	13C2 PFTeDA	87		50-150
STL02337	13C3 PFBS	103		50-150
STL00994	18O2 PFHxS	101		50-150
STL00991	13C4 PFOS	92		50-150
STL02118	d3-NMeFOSAA	89		50-150
STL02117	d5-NEtFOSAA	82		50-150
STL02279	M2-6:2 FTS	106		25-150
STL02280	M2-8:2 FTS	95		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d
Lims ID: 480-188016-F-9-A
Client ID: MW-99-04
Sample Type: Client
Inject. Date: 11-Aug-2021 14:49:50 ALS Bottle#: 13 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-F-9-A
Misc. Info.: 200-0047128-016 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:32:14 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 10:09:58
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	2.109	2.082	0.027	0.598	1301504	1.00		80.1	7398	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.082	0.027	1.000	41909	0.0418			5.2	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.691	1185045	1.20		96.4	3112	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.452	2.413	0.039	1.005	14636	0.0149			0.8	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.465	2.426	0.039	0.699	1252011	1.20		103	169857	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.465	2.426	0.039	1.000	21849	0.0188	Target=2.20		12.2	
298.90 > 99.00	2.465	2.426	0.039	1.000	10502		2.08(1.10-3.30)		5.2	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.807	2.782	0.025	0.796	1346673	1.24		99.4	3646	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.807	2.782	0.025	1.000	10889	0.0100	Target=12.93		2.1	M
313.00 > 119.00	2.794	2.782	0.012	0.996	1181		9.22(6.46-19.39)		2.9	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.175	3.154	0.021	0.900	991933	1.20		101	2280	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.175	3.154	0.021	1.000	5696	0.005869	Target=4.48		11.0	M
399.00 > 99.00	3.175	3.154	0.021	1.000	1819		3.13(2.24-6.72)		2.3	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.175	3.154	0.021	1.000	6140	0.005449	Target=3.68		1.5	M
363.00 > 169.00	3.175	3.154	0.021	1.000	1359		4.52(1.84-5.53)		4.0	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1362266	1.25		100	3224	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.510	3.510	0.0	0.915	393	0.000570	Target=6.56		2.2	M
449.00 > 99.00	3.510	3.510	0.0	0.915	97		4.05(3.28-9.84)		0.6	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.519	3.510	0.009	0.997	144480	1.26		106	385	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.510	3.510	0.0	0.997	526	0.004171			11.4	M
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1410734	1.26		101	3329	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1419909	1.25			2947	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	15748	0.0133	Target=2.67		4.6	M
413.00 > 169.00	3.528	3.519	0.009	1.000	6659		2.36(1.33-4.00)		19.3	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.836	3.836	0.0	1.087	661967	1.10		91.7	2358	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.718	3.836	-0.118	0.969	3149	0.005072	Target=6.69		2.3	M
499.00 > 99.00	3.847	3.836	0.011	1.003	926		3.40(3.34-10.03)		2.0	M
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.094	1277460	1.20		95.9	4337	
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.148	0.012	1.179	1149421	1.19		95.2	4203	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.179	155204	1.13		94.8	665	
D 21 13C8 FOSA										
506.00 > 78.00	4.235	4.224	0.011	1.200	1287710	1.21		96.7	2262	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.235	4.224	0.011	1.000	479	0.000475			3.6	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.302	4.280	0.022	1.220	79238	1.11		89.2	1148	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.324	4.291	0.033	1.005	43	0.000816			0.6	M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.391	4.369	0.022	1.145	99	0.000282	Target=2.66		2.1	RM
599.00 > 99.00	4.380	4.369	0.011	1.142	188		0.53(1.33-3.99)		2.1	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.251	832847	1.09		86.9	2675	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.413	0.011	1.254	75831	1.03		82.0	754	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.434	4.413	0.021	1.002	157	0.003055			2.3	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.642	4.632	0.010	1.316	860331	1.09		86.9	3390	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.642	4.632	0.010	1.000	670	0.000964	Target=6.31		0.3	M
613.00 > 169.00	4.632	4.632	0.0	0.998	153		4.38(3.15-9.46)		3.4	M

Report Date: 12-Aug-2021 12:32:29 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d
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 43 13C2 PFTeDA										
715.00 > 670.00	5.043	5.034	0.009	1.430	678626	1.09		87.4	4217	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.043	5.034	0.009	1.000	113	0.001211	Target=1.00		3.3	M
713.00 > 219.00	5.043	5.034	0.009	1.000	176		0.64(0.50-1.51)		5.6	M

QC Flag Legend

Processing Flags
R - Failed Signal Ratio Test
Review Flags
M - Manually Integrated

Report Date: 12-Aug-2021 12:32:29 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d

Injection Date: 11-Aug-2021 14:49:50 Instrument ID: LC812

Lims ID: 480-188016-F-9-A Lab Sample ID: 200-188016-9

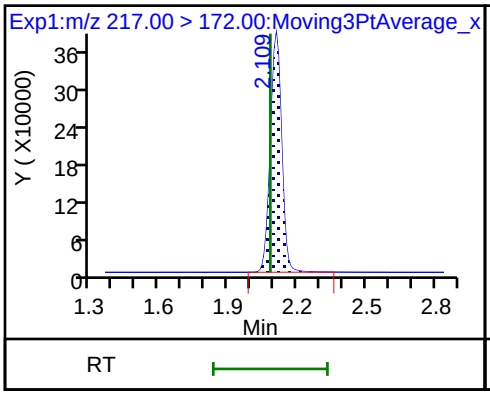
Client ID: MW-99-04

Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 16

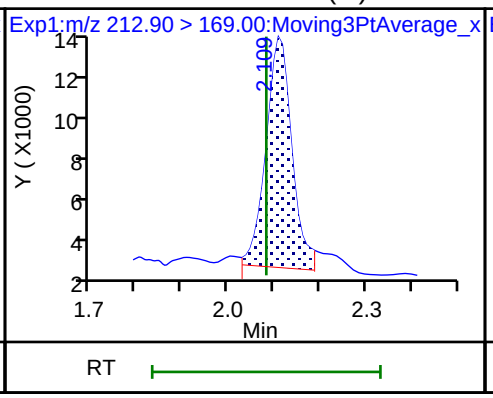
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

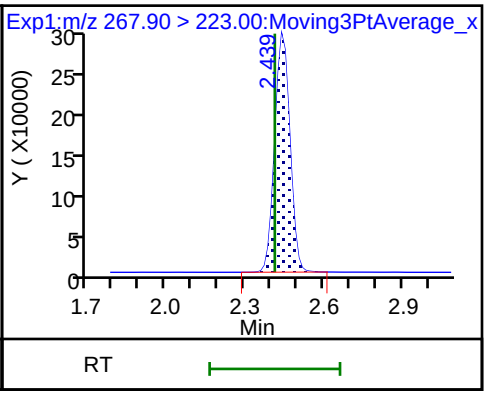
D 1 13C4 PFBA



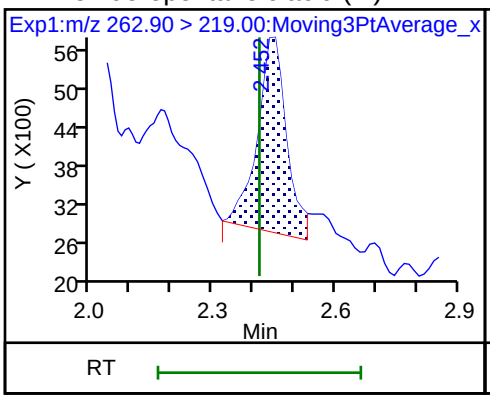
2 Perfluorobutanoic acid (M)



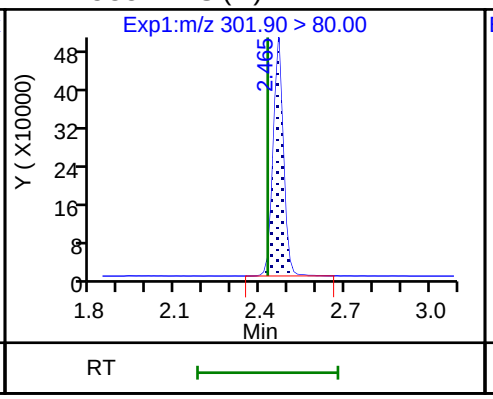
D 3 13C5 PFPeA



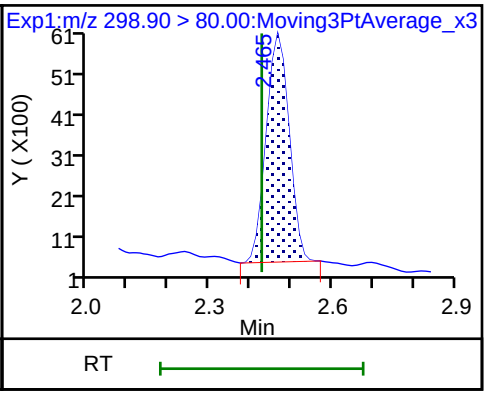
4 Perfluoropentanoic acid (M)



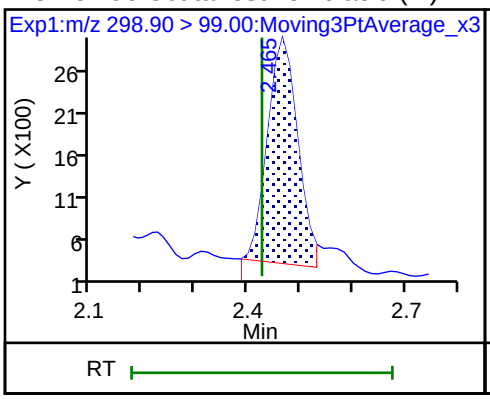
D 47 13C3 PFBS (M)



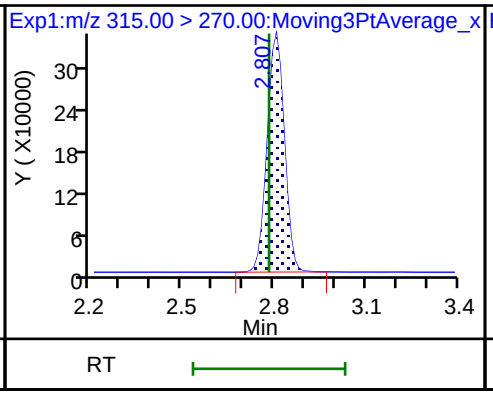
5 Perfluorobutanesulfonic acid



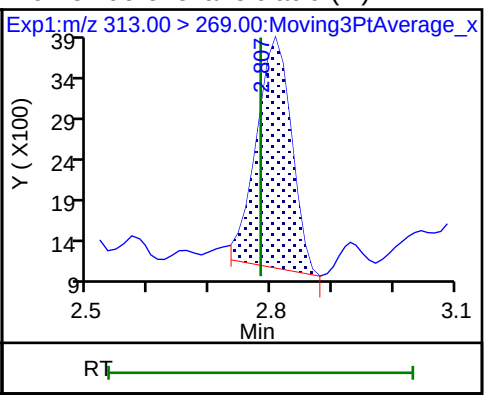
5 Perfluorobutanesulfonic acid (M)



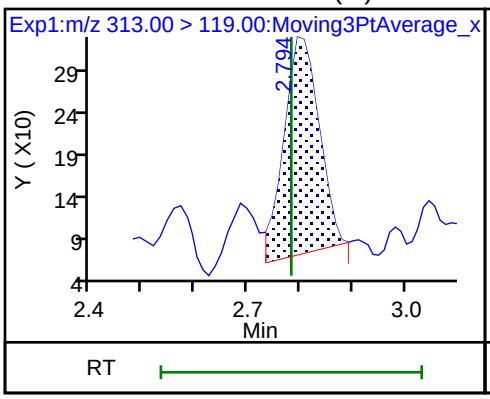
D 7 13C2 PFHxA



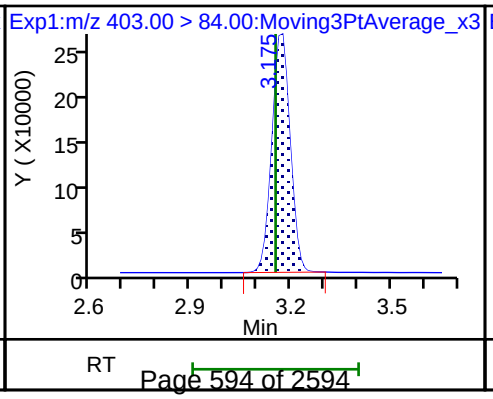
6 Perfluorohexanoic acid (M)



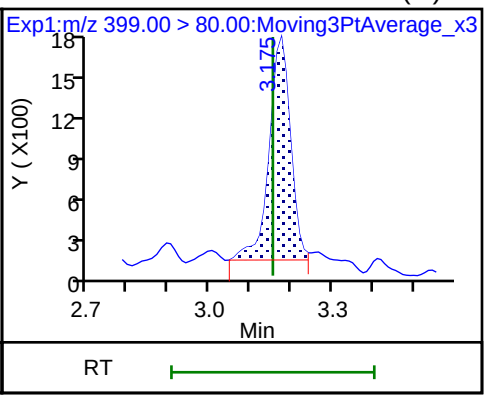
6 Perfluorohexanoic acid (M)



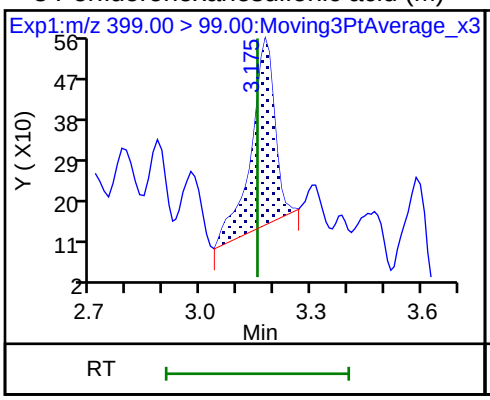
D 11 18O2 PFHxS



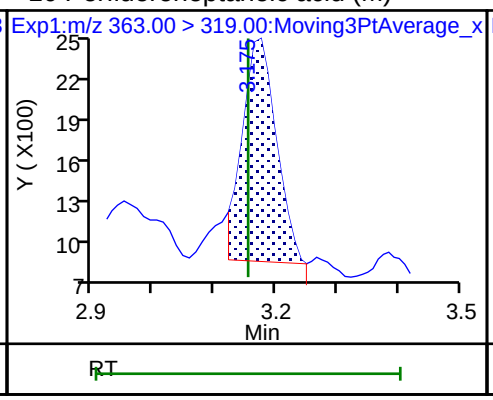
8 Perfluorohexanesulfonic acid (M)



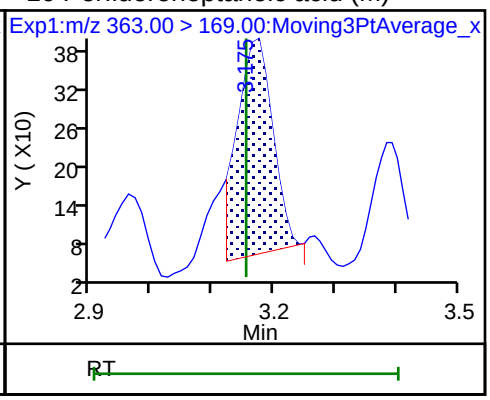
8 Perfluorohexanesulfonic acid (M)



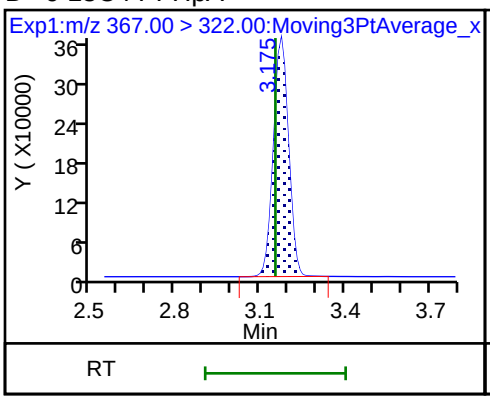
10 Perfluoroheptanoic acid (M)



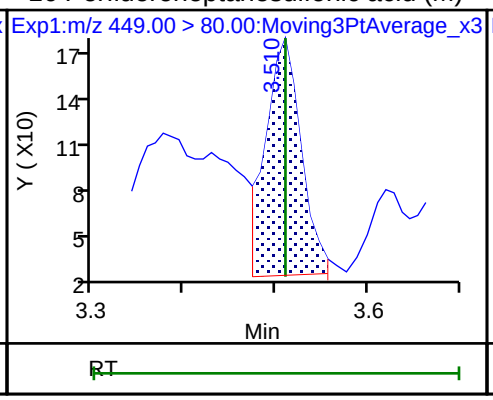
10 Perfluoroheptanoic acid (M)



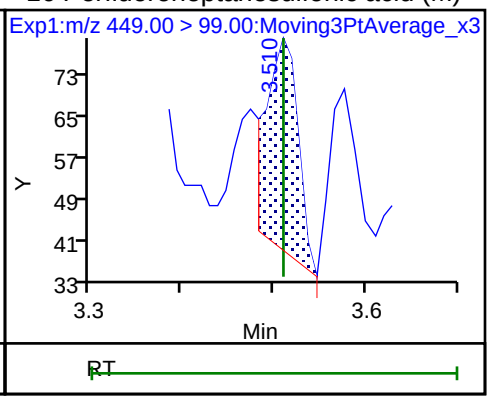
D 9 13C4 PFHpA



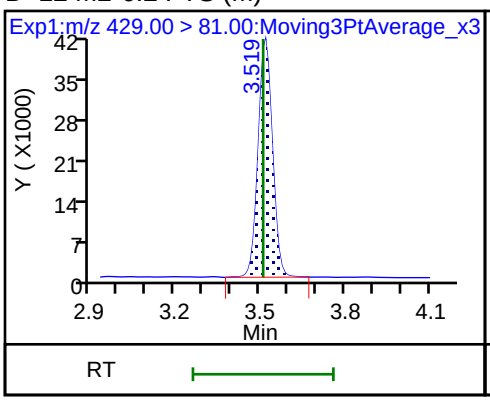
16 Perfluoroheptanesulfonic acid (M)



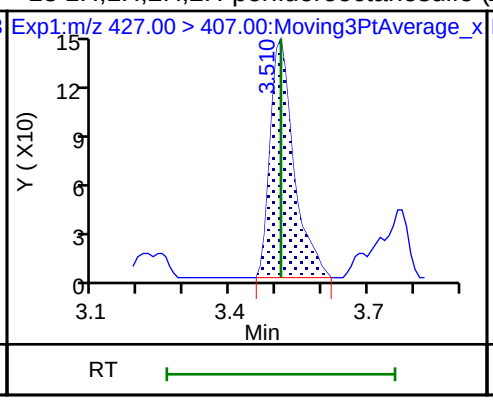
16 Perfluoroheptanesulfonic acid (M)



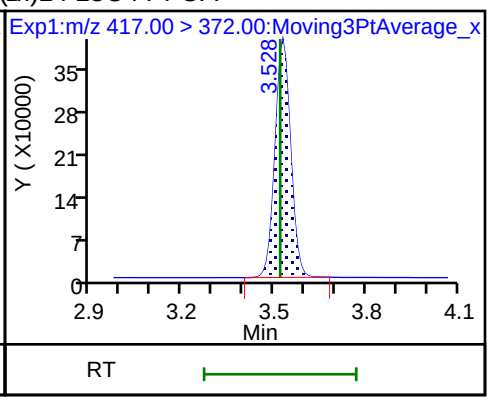
D 12 M2-6:2 FTS (M)



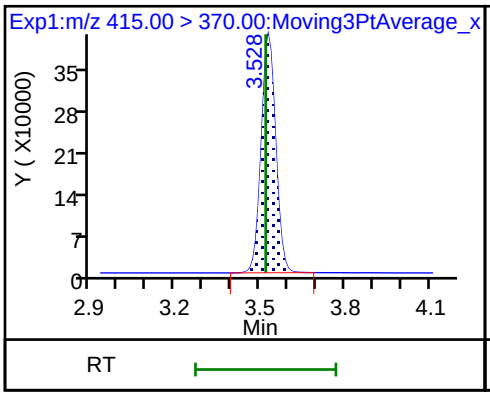
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



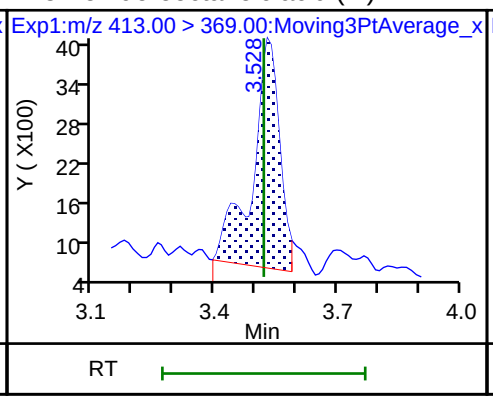
D 14 13C4 PFOA



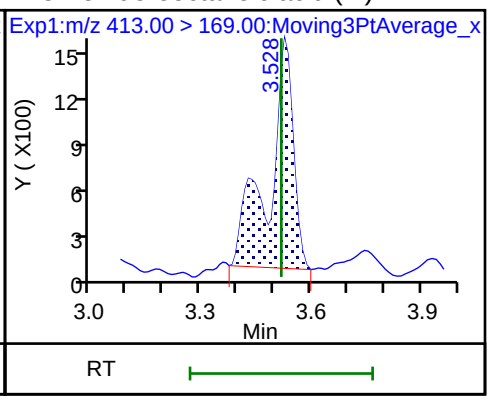
* 62 13C2 PFOA



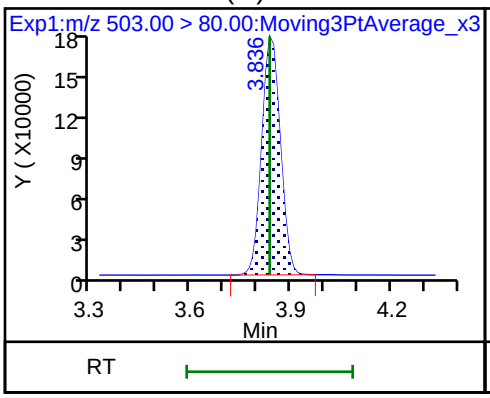
15 Perfluorooctanoic acid (M)



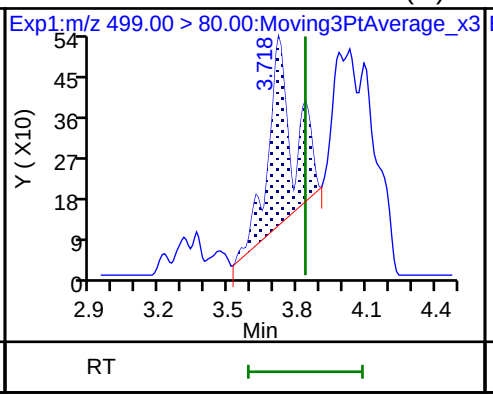
15 Perfluorooctanoic acid (M)



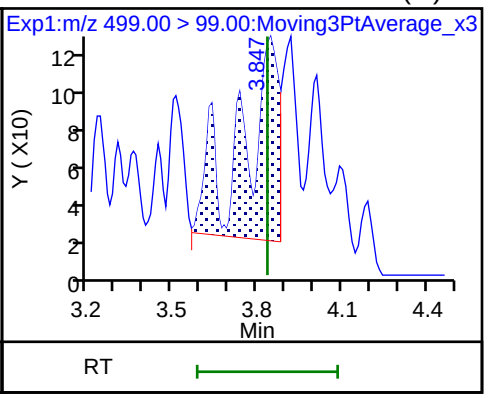
D 18 13C4 PFOS (M)



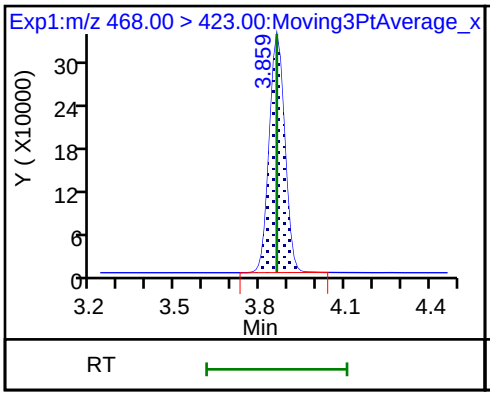
17 Perfluorooctanesulfonic acid (M)



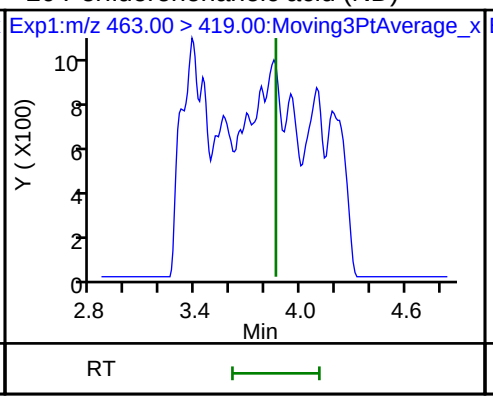
17 Perfluorooctanesulfonic acid (M)



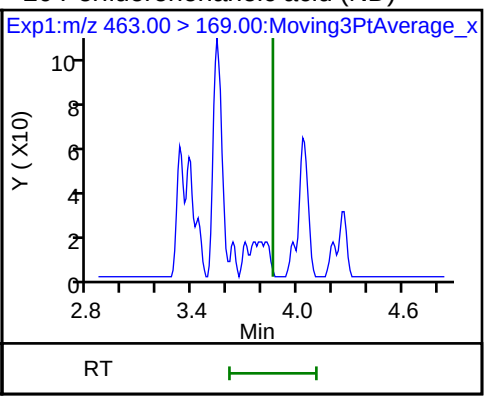
D 19 13C5 PFNA



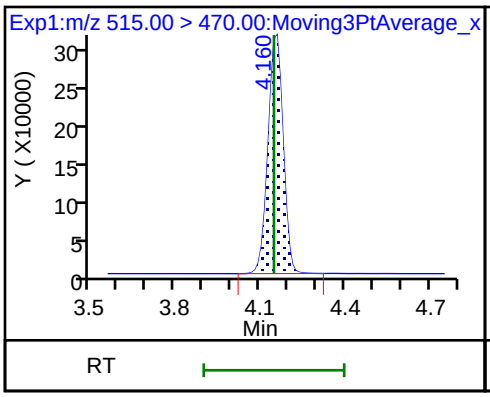
20 Perfluorononanoic acid (ND)



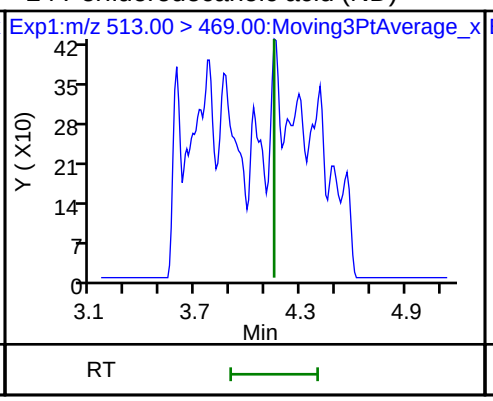
20 Perfluorononanoic acid (ND)



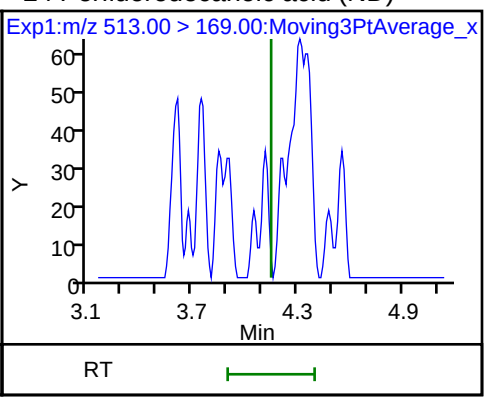
D 23 13C2 PFDA



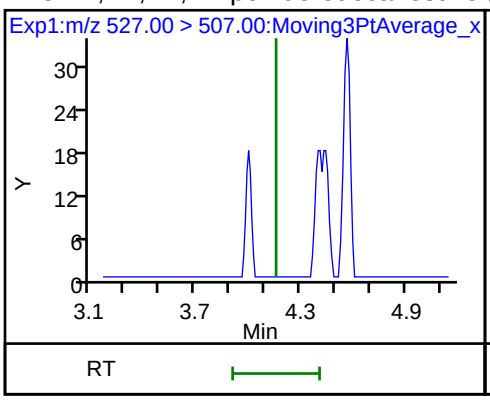
24 Perfluorodecanoic acid (ND)



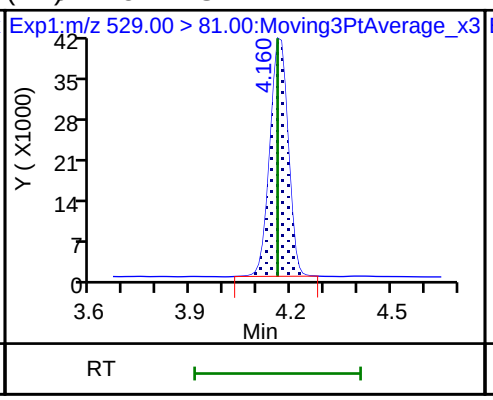
24 Perfluorodecanoic acid (ND)



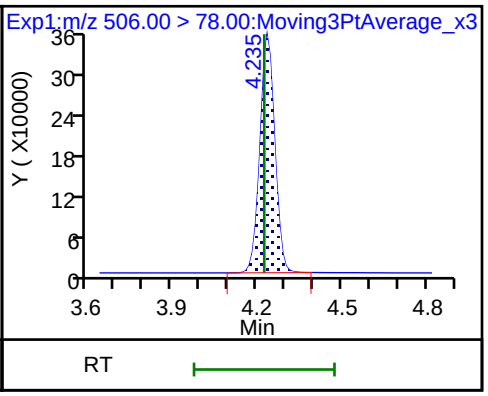
25 1H,1H,2H,2H-perfluorodecanesulfo (ND)



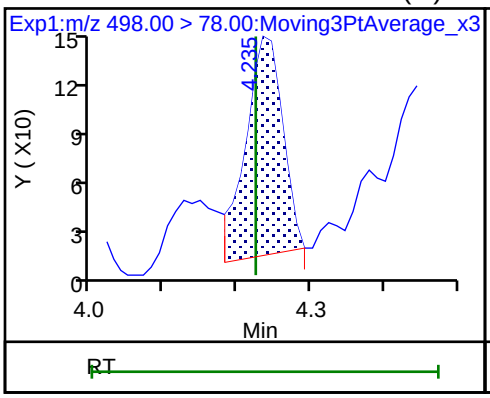
D 26 M2-8:2 FTS



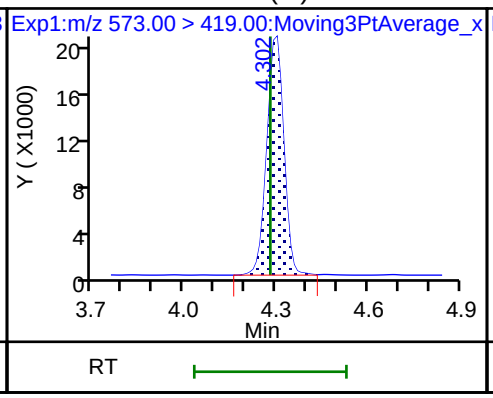
D 21 13C8 FOSA



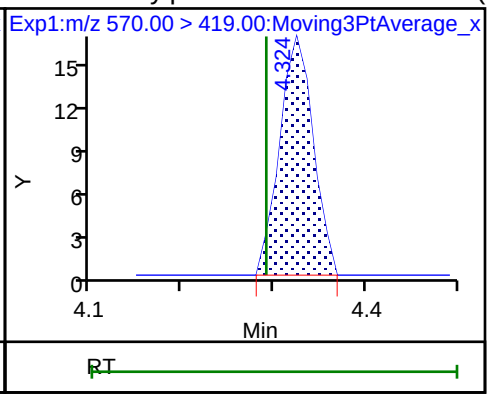
22 Perfluorooctanesulfonamide (M)



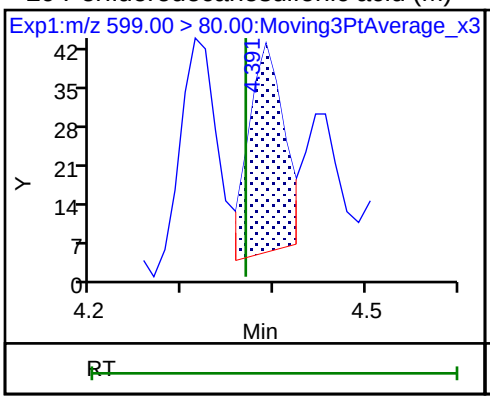
D 27 d3-NMeFOSAA (M)



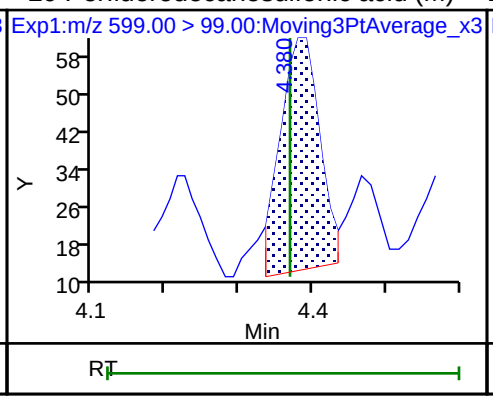
28 N-methylperfluorooctanesulfonami (M)



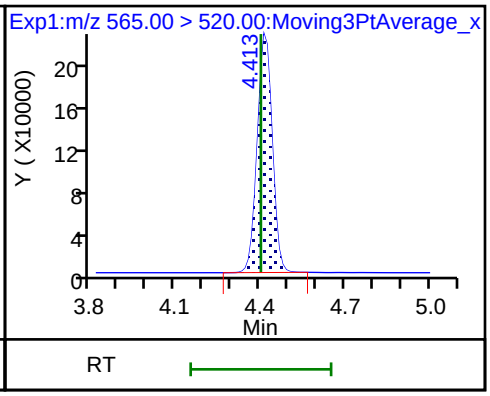
29 Perfluorodecanesulfonic acid (M)



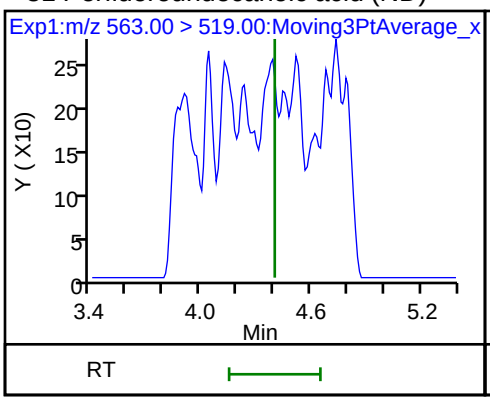
29 Perfluorodecanesulfonic acid (M)



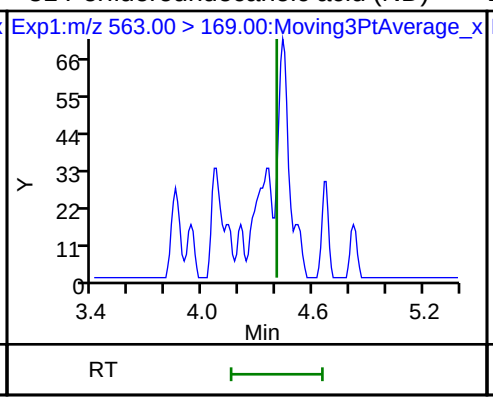
D 30 13C2 PFUnA



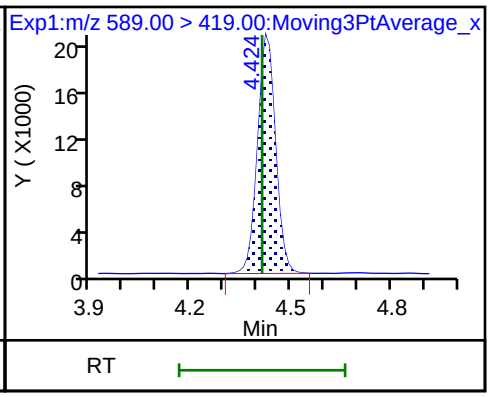
31 Perfluoroundecanoic acid (ND)



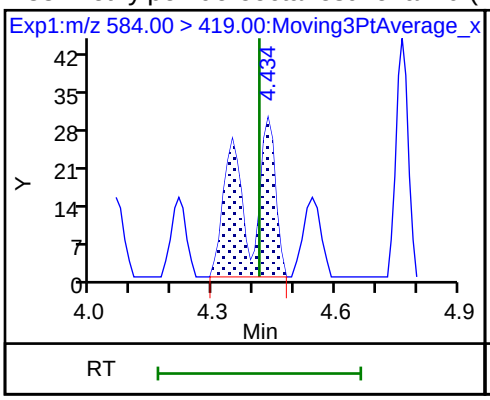
31 Perfluoroundecanoic acid (ND)



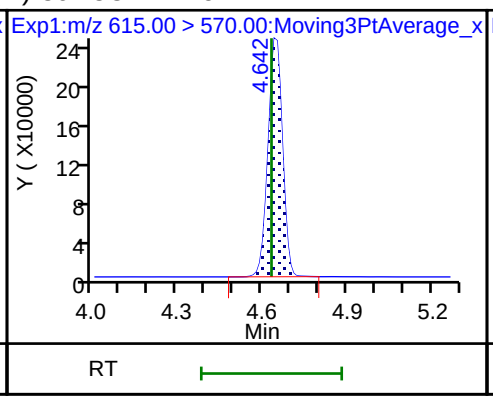
D 32 d5-NEtFOSAA



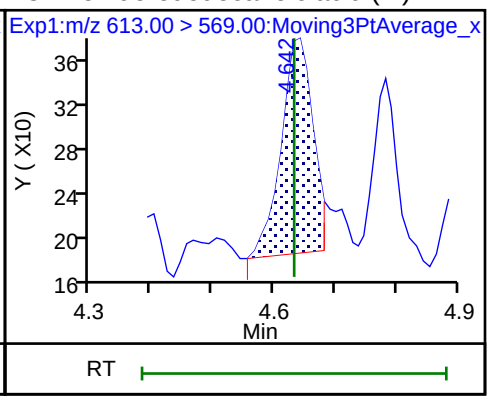
33 N-ethylperfluorooctanesulfonamid (ND)



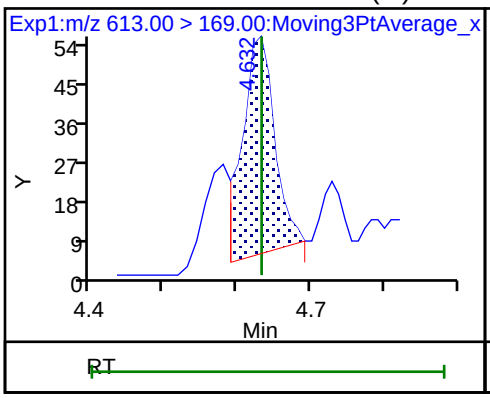
D 36 13C2 PFDoA



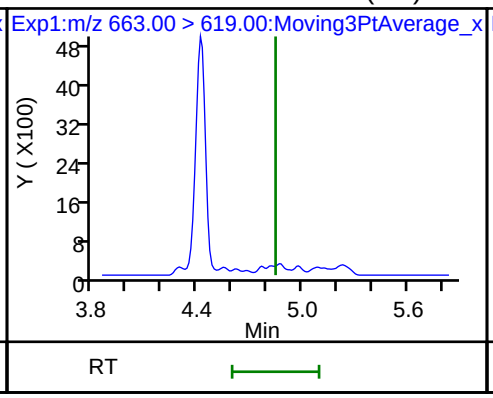
37 Perfluorododecanoic acid (M)



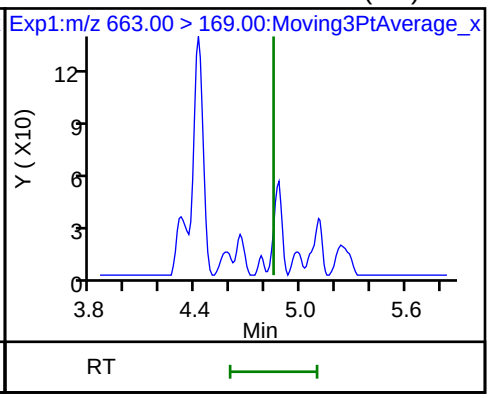
37 Perfluorododecanoic acid (M)



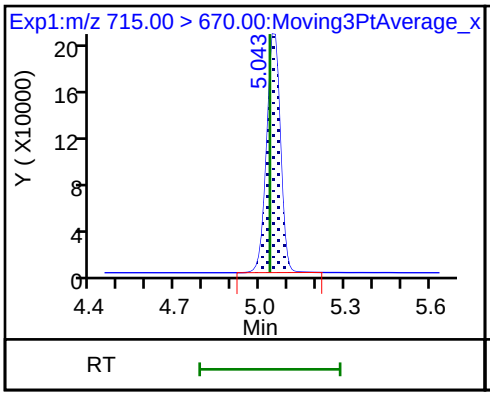
41 Perfluorotridecanoic acid (ND)



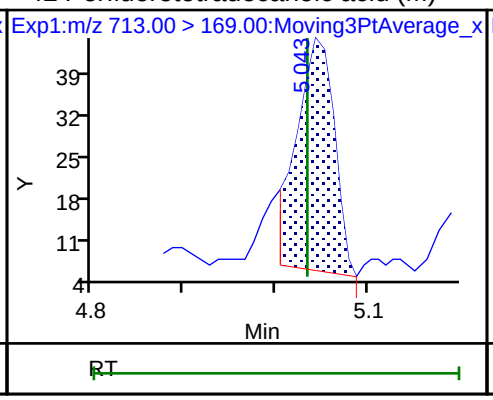
41 Perfluorotridecanoic acid (ND)



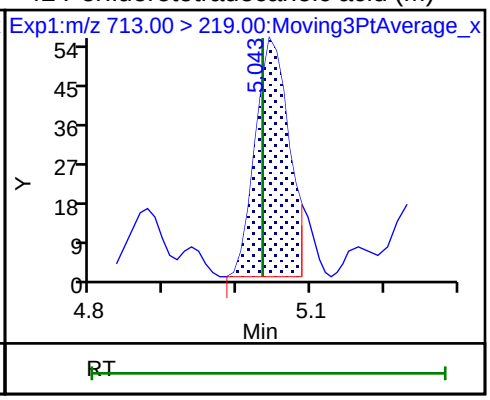
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

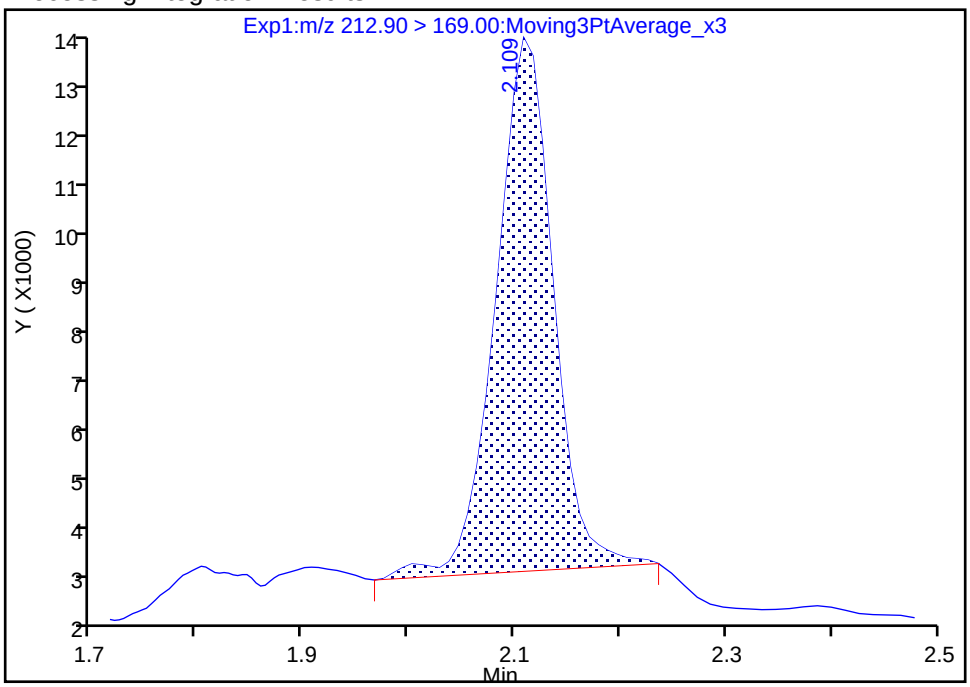
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Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

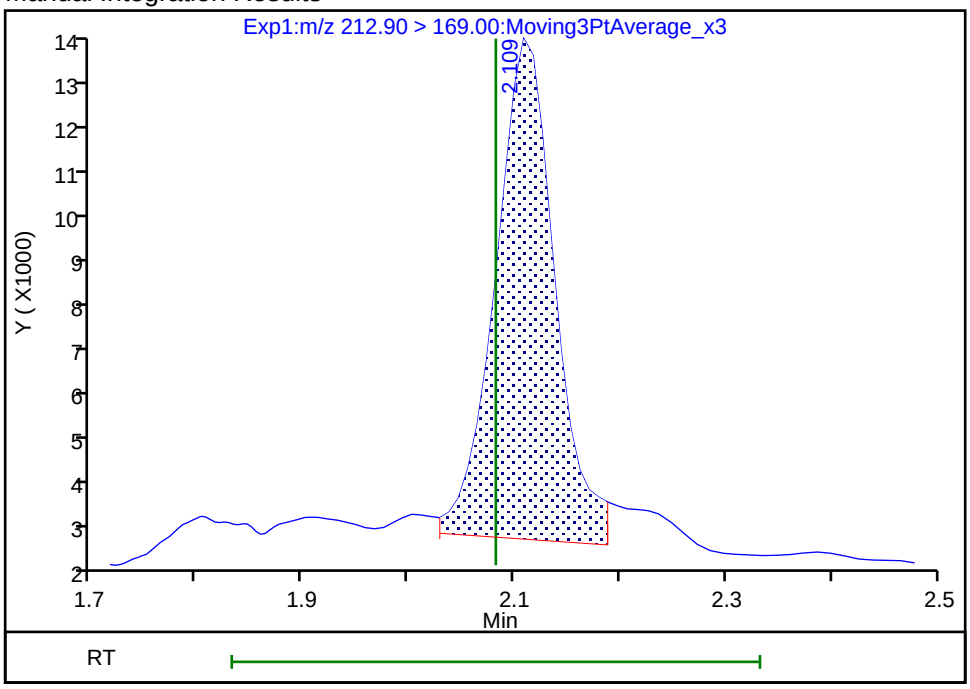
Processing Integration Results

RT: 2.11
Area: 39198
Amount: 0.039063
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 41909
Amount: 0.041764
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:06:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

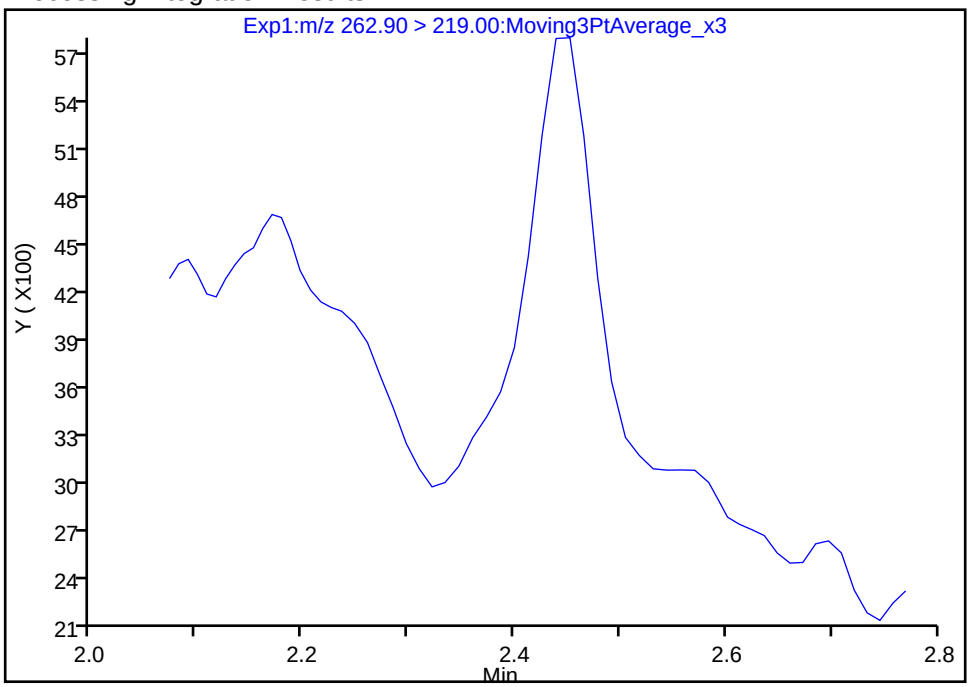
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Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

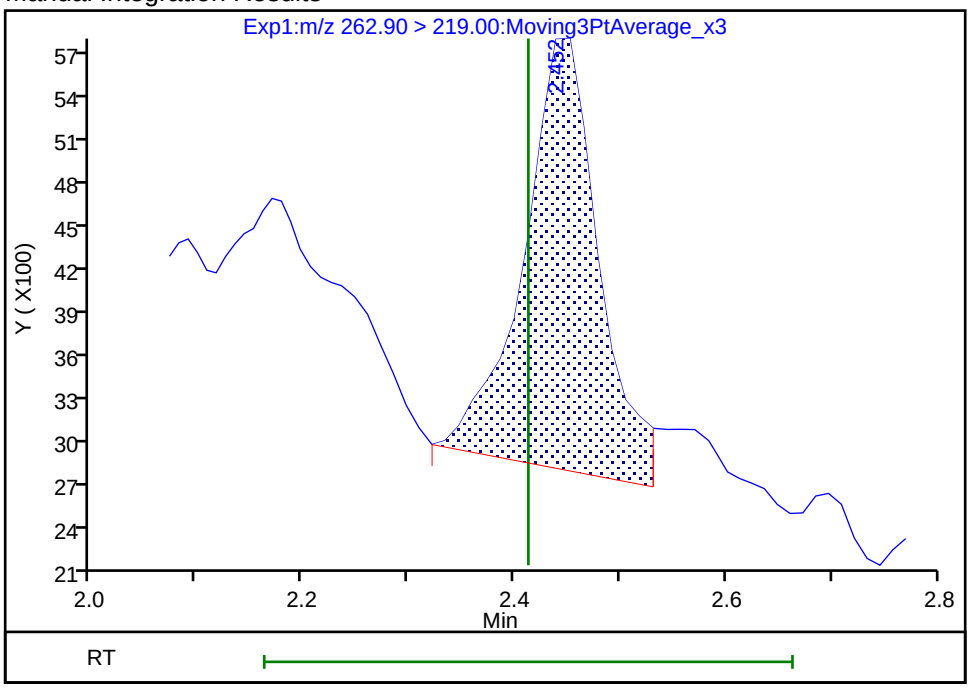
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 14636
Amount: 0.014917
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:06:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

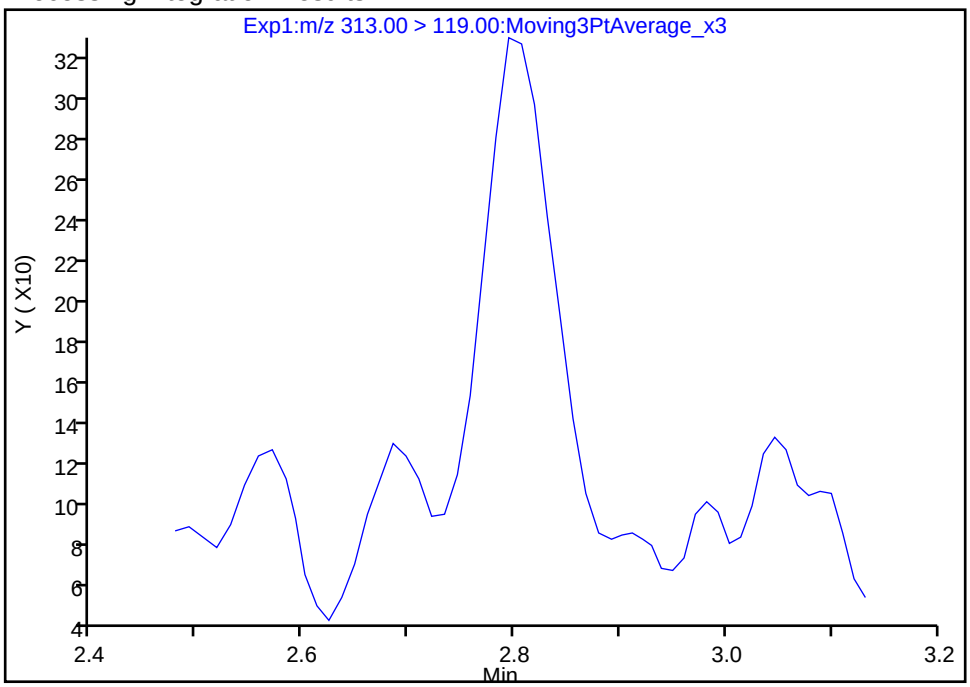
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Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

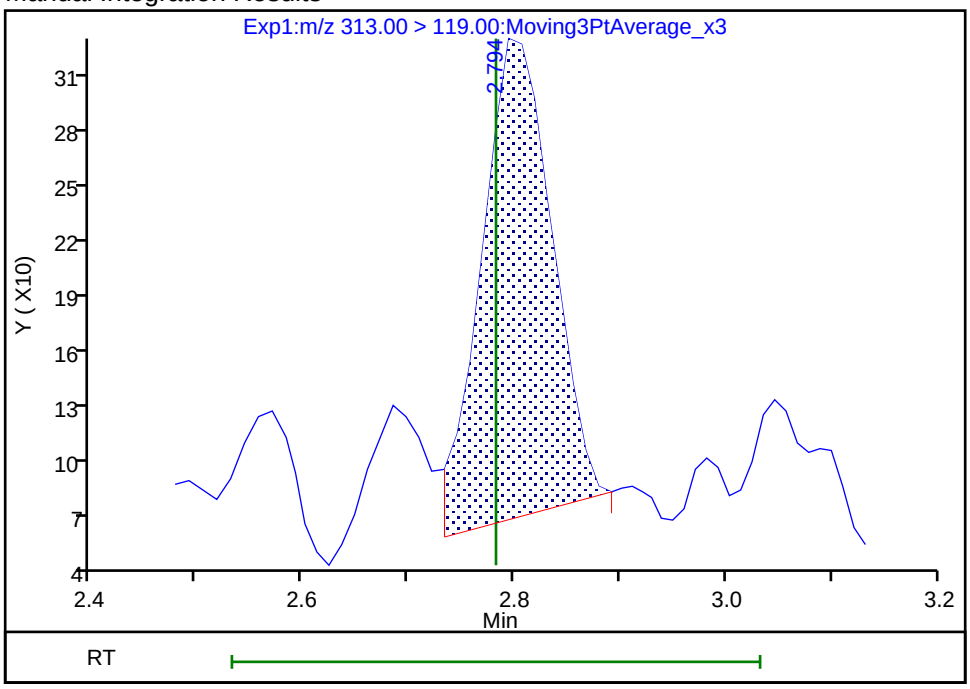
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.79
Area: 1181
Amount: 0.010046
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:06:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

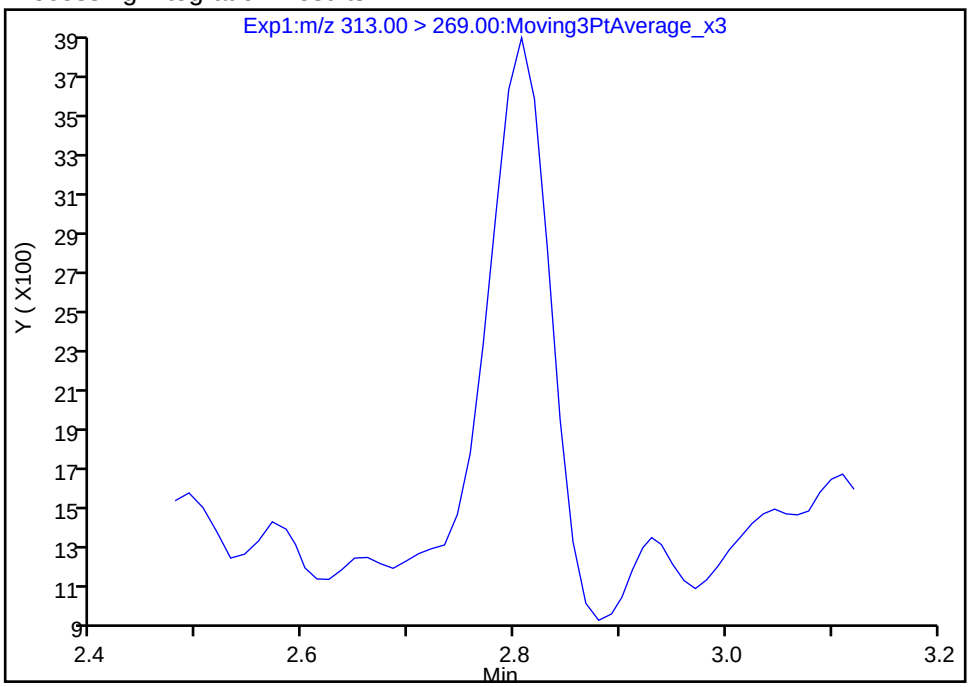
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

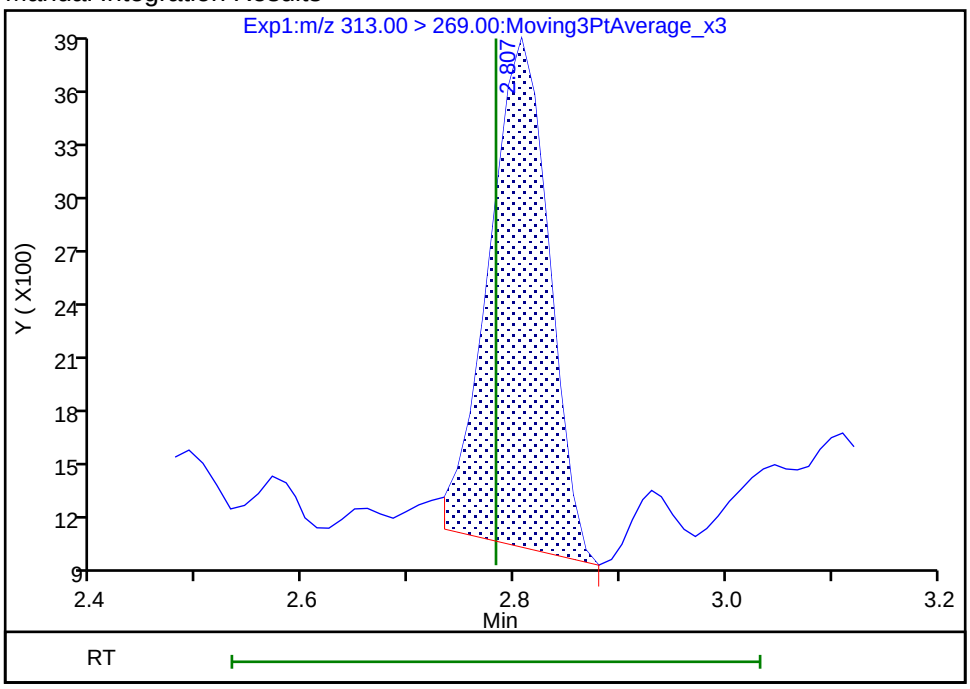
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.81
Area: 10889
Amount: 0.010046
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:06:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

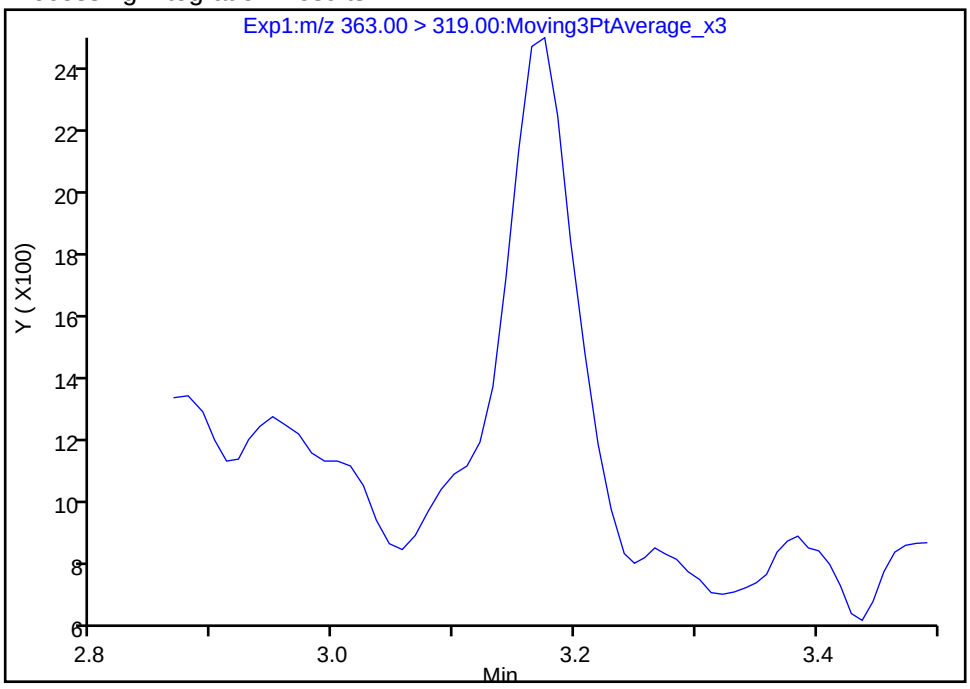
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

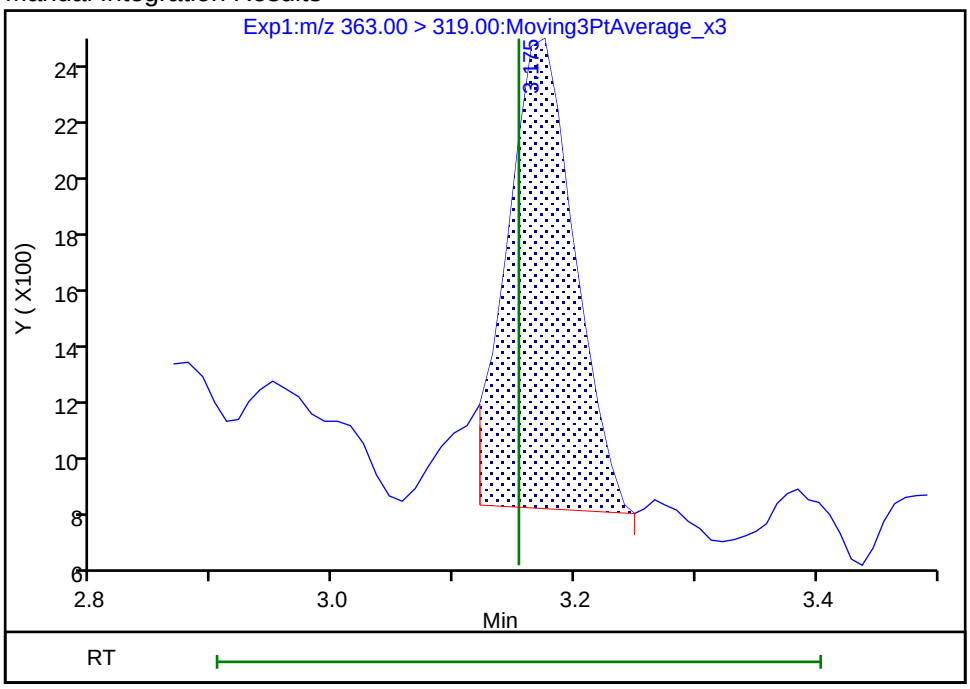
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 6140
Amount: 0.005449
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:07:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

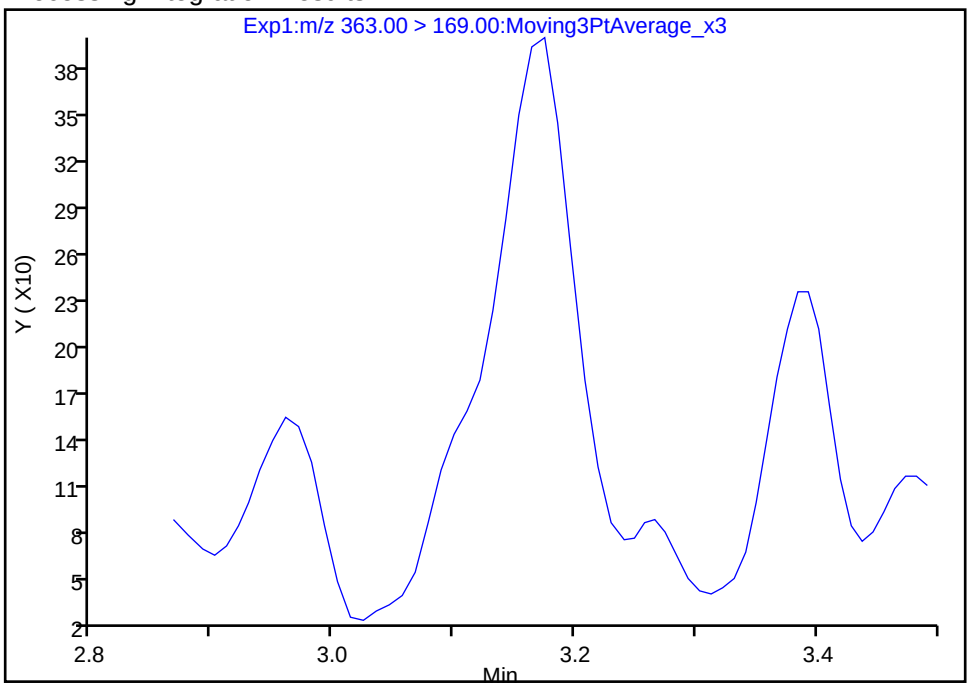
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

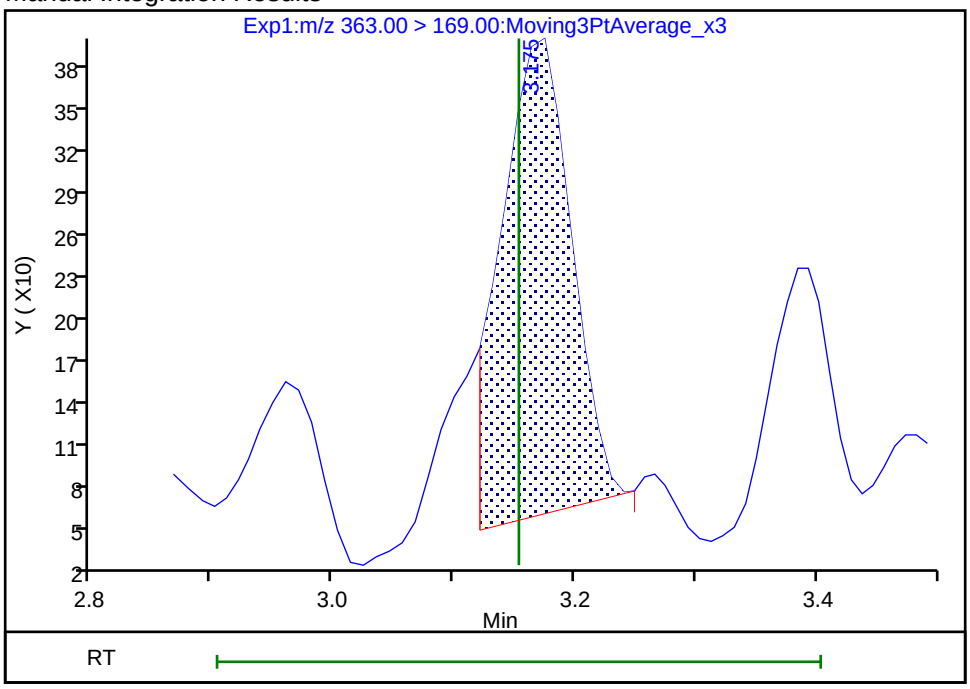
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 1359
Amount: 0.005449
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:07:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

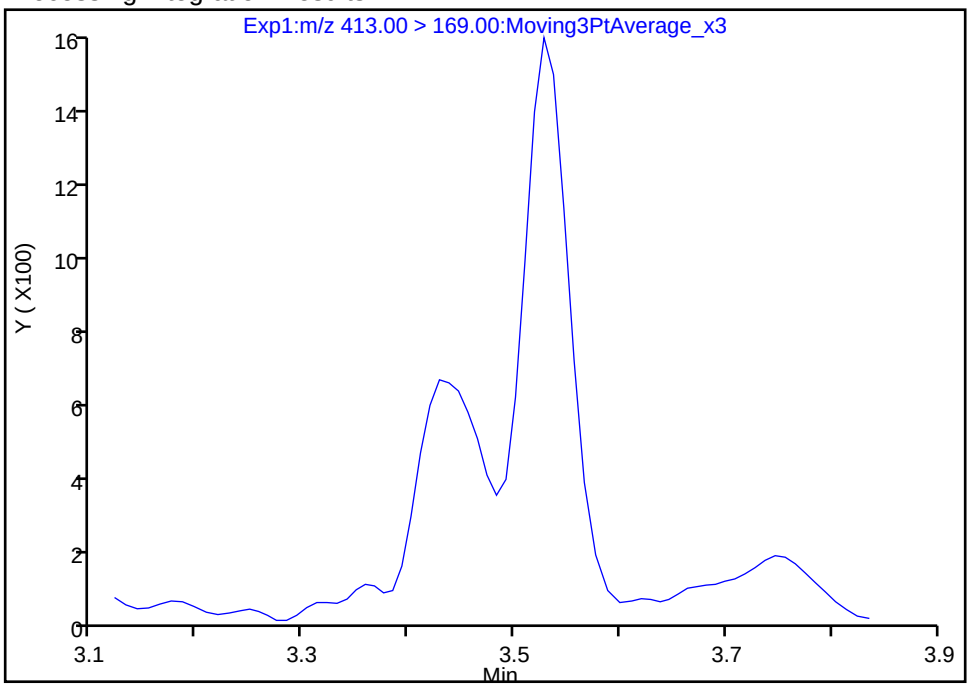
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

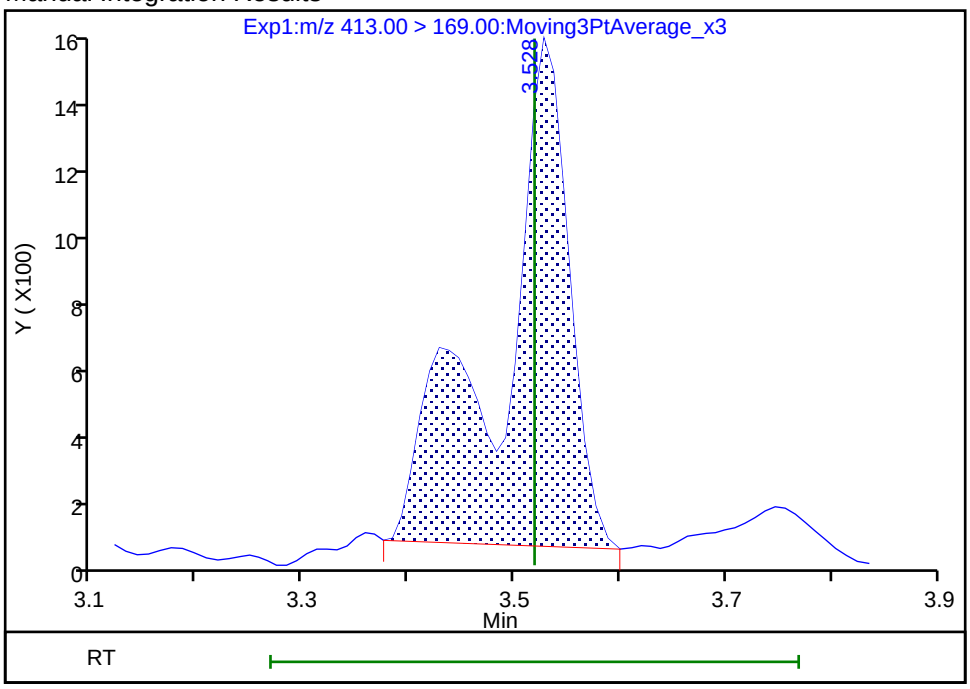
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 6659
Amount: 0.013258
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:07:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

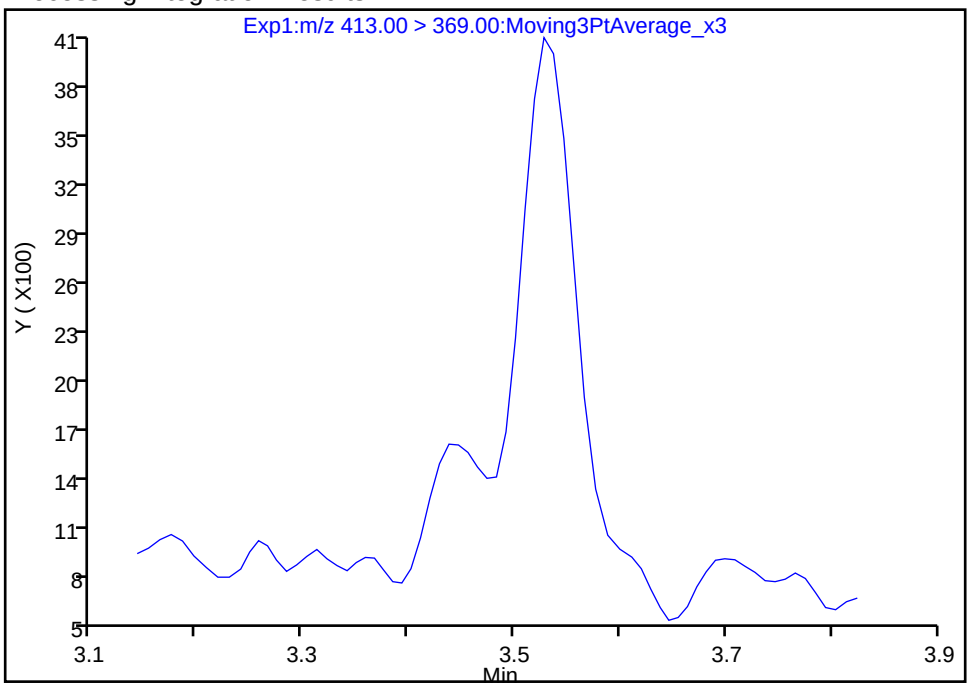
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

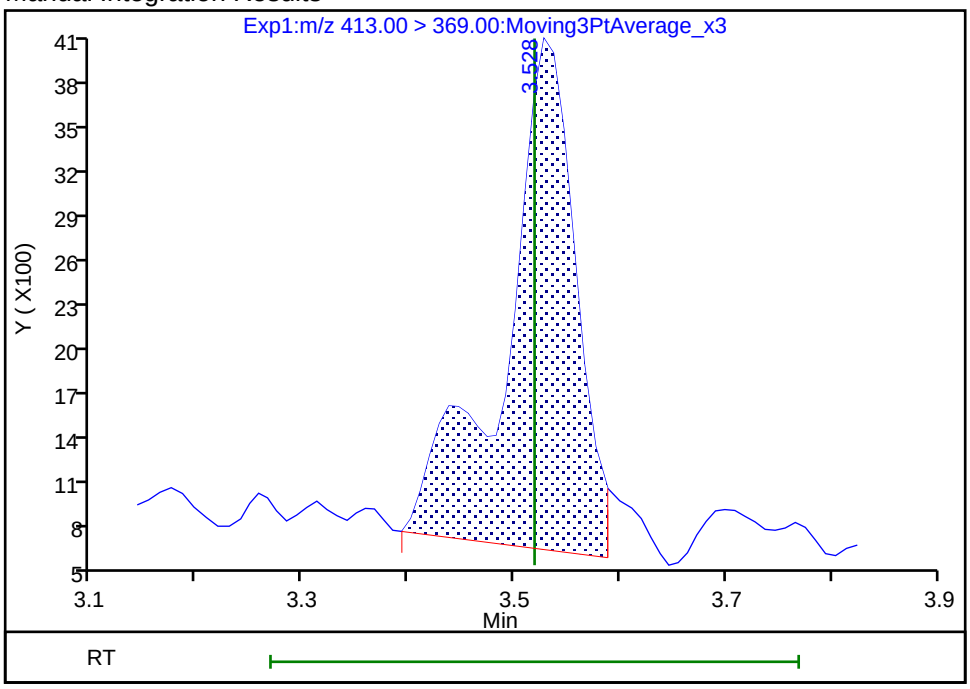
Processing Integration Results

Not Detected
Expected RT: 3.52



Manual Integration Results

RT: 3.53
Area: 15748
Amount: 0.013258
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:07:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

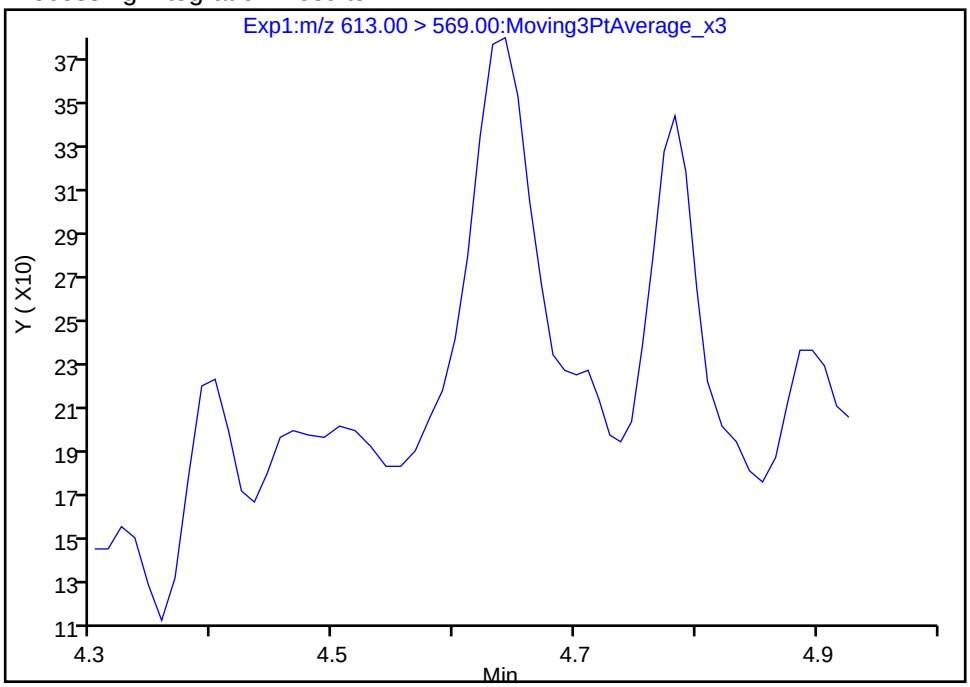
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

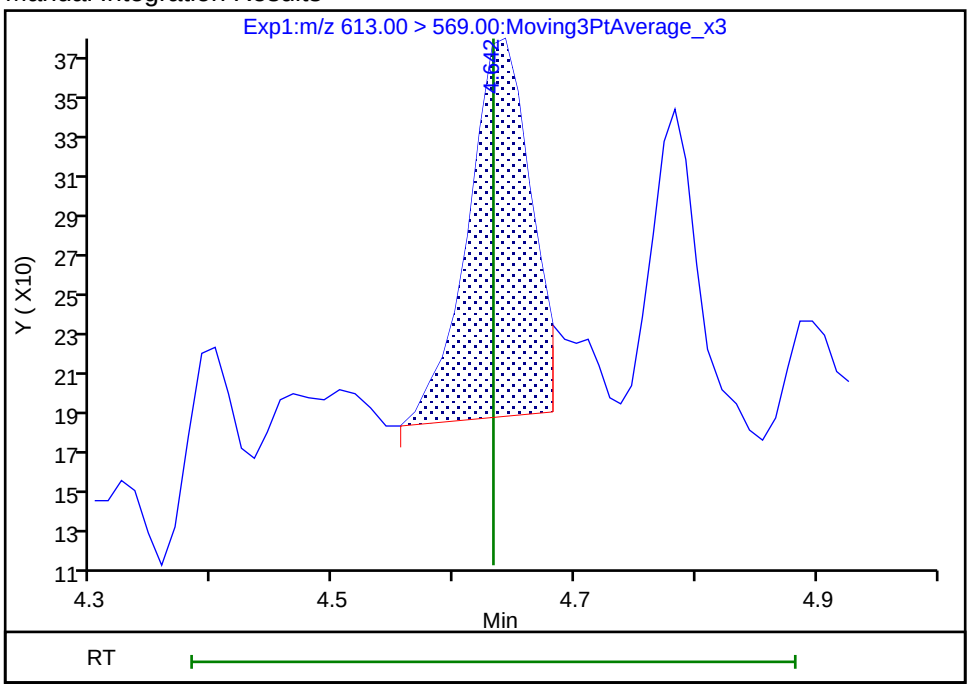
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 670
Amount: 0.000964
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:09:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

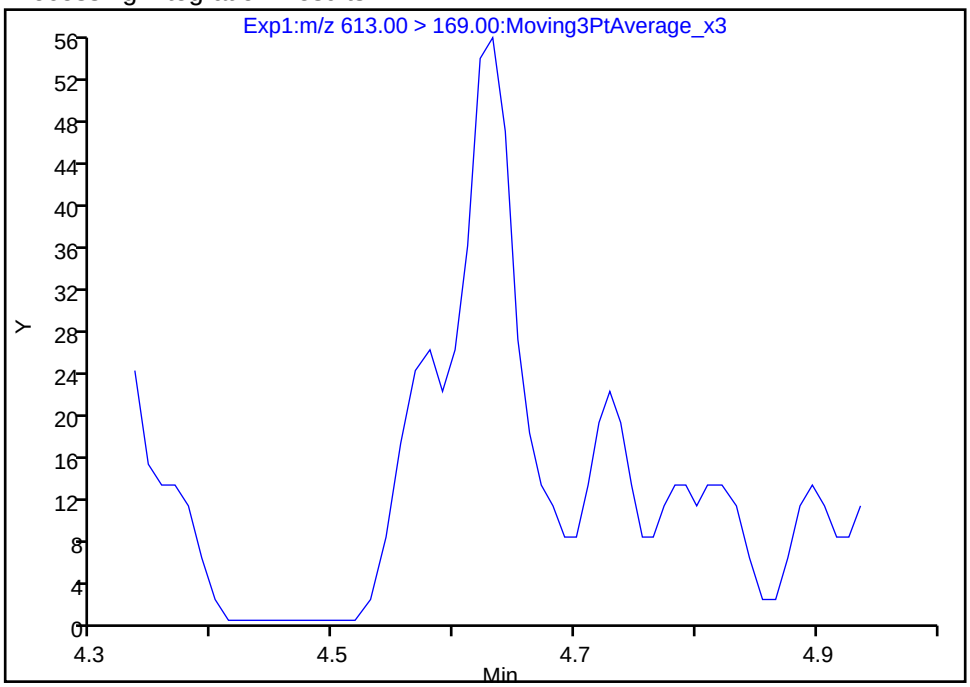
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

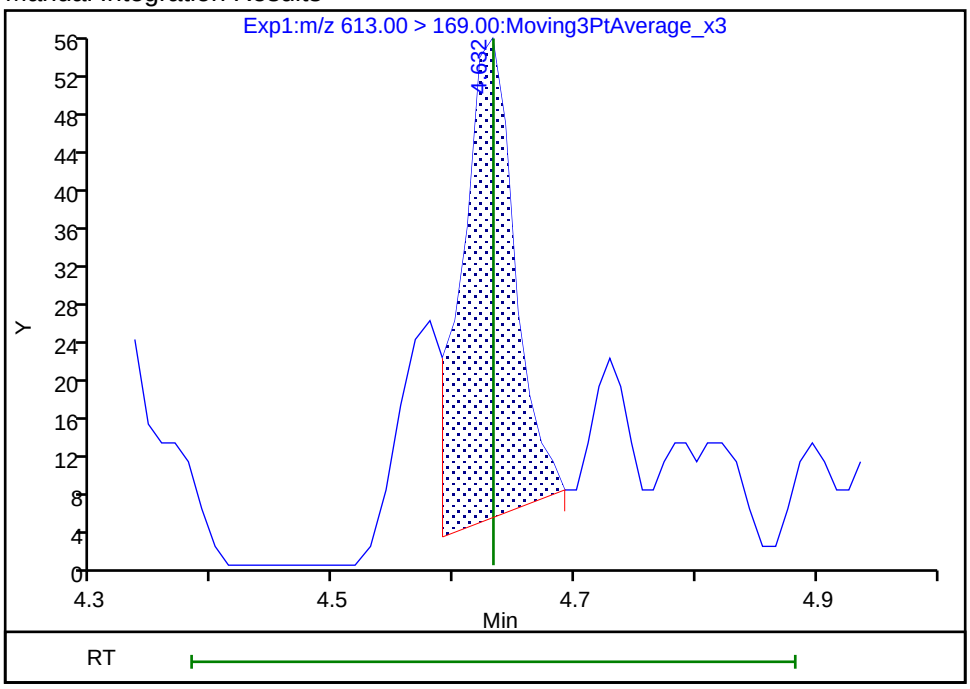
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.63
Area: 153
Amount: 0.000964
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:09:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

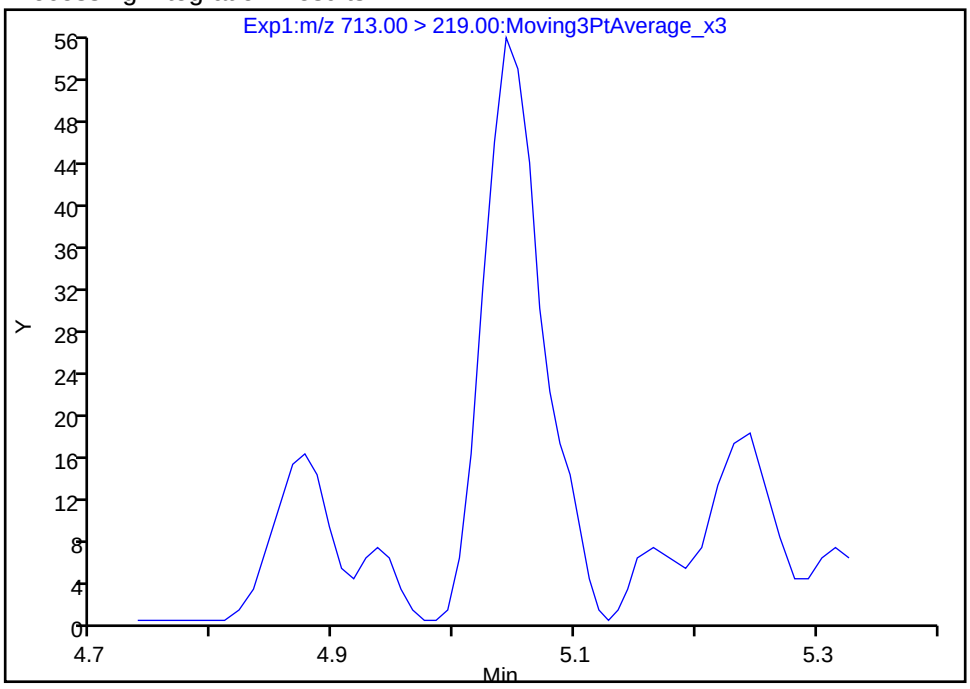
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

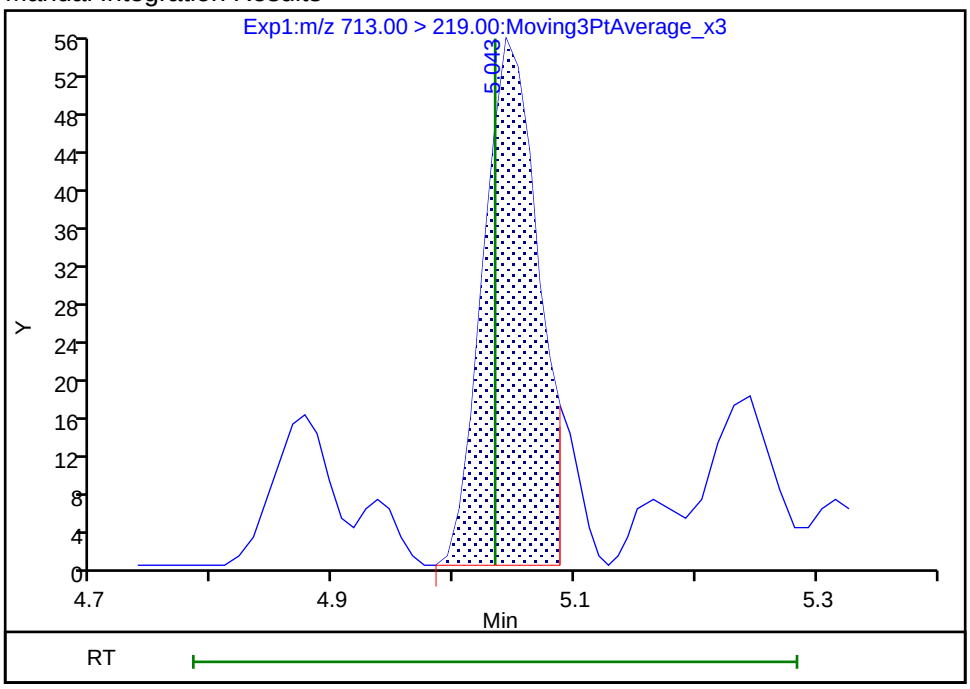
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 176
Amount: 0.001211
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:09:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

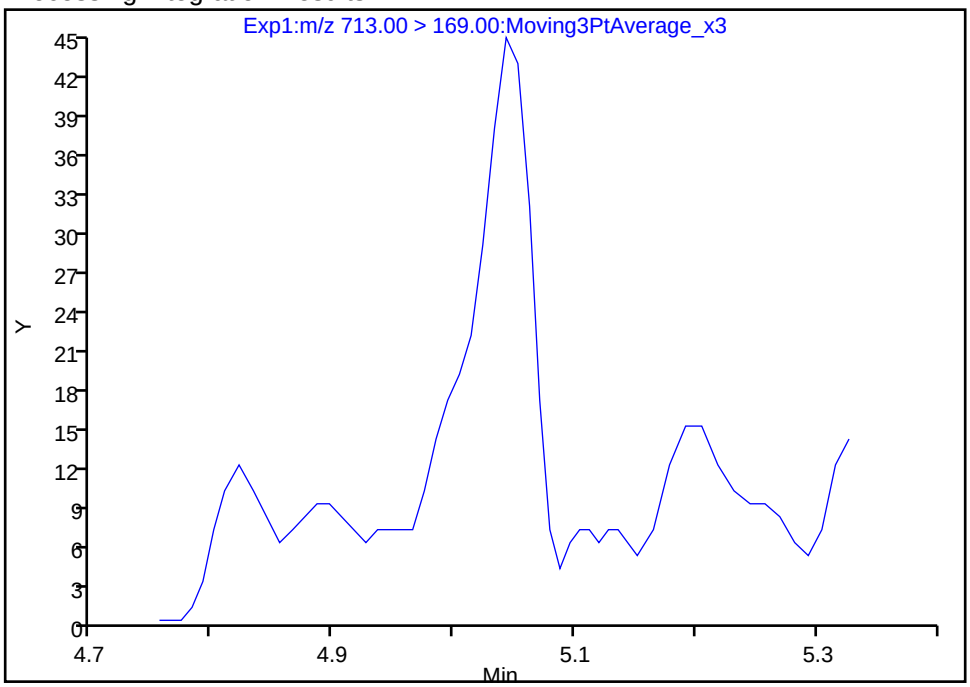
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

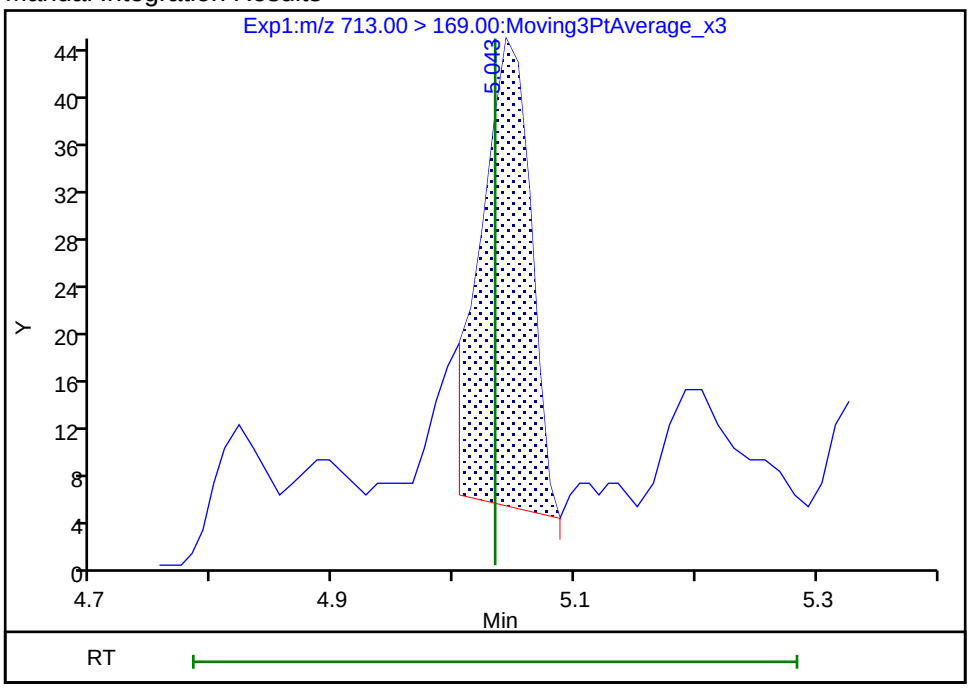
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 113
Amount: 0.001211
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:09:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

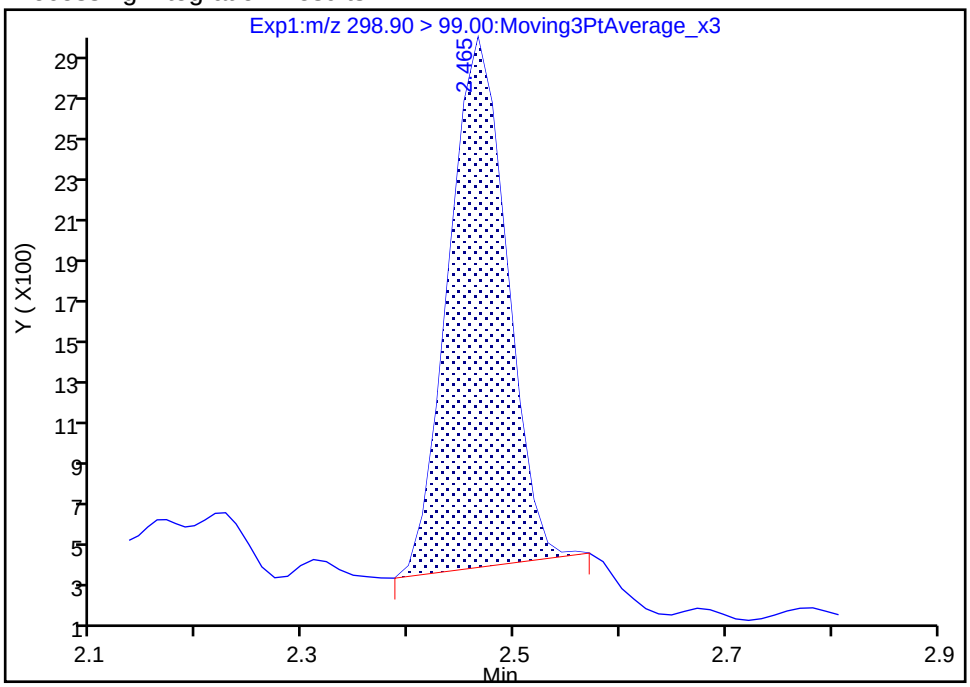
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

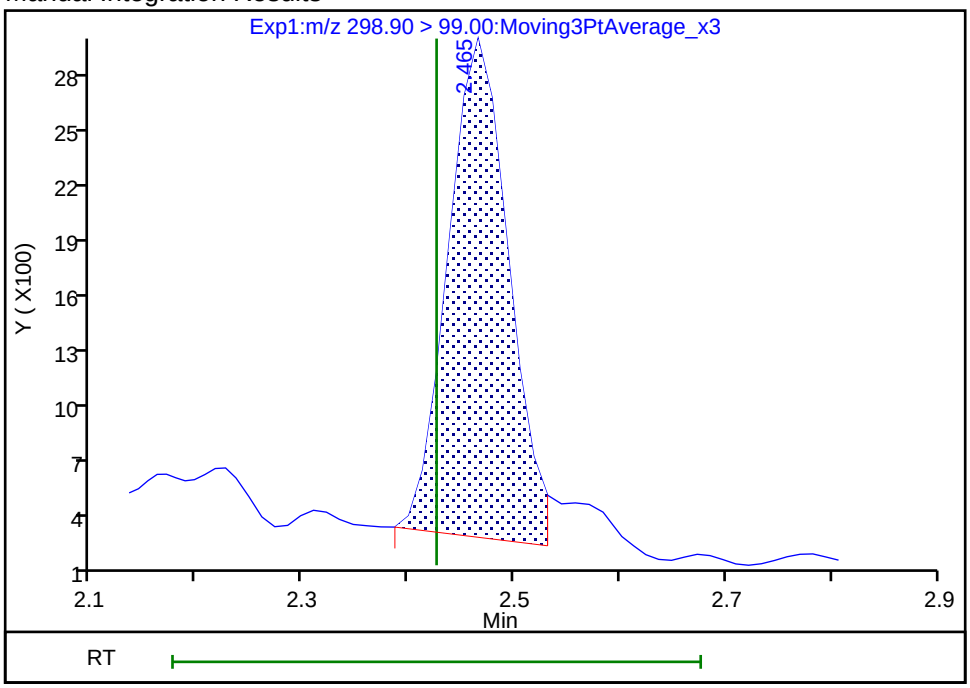
Processing Integration Results

RT: 2.47
Area: 9722
Amount: 0.018782
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 10502
Amount: 0.018782
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:06:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

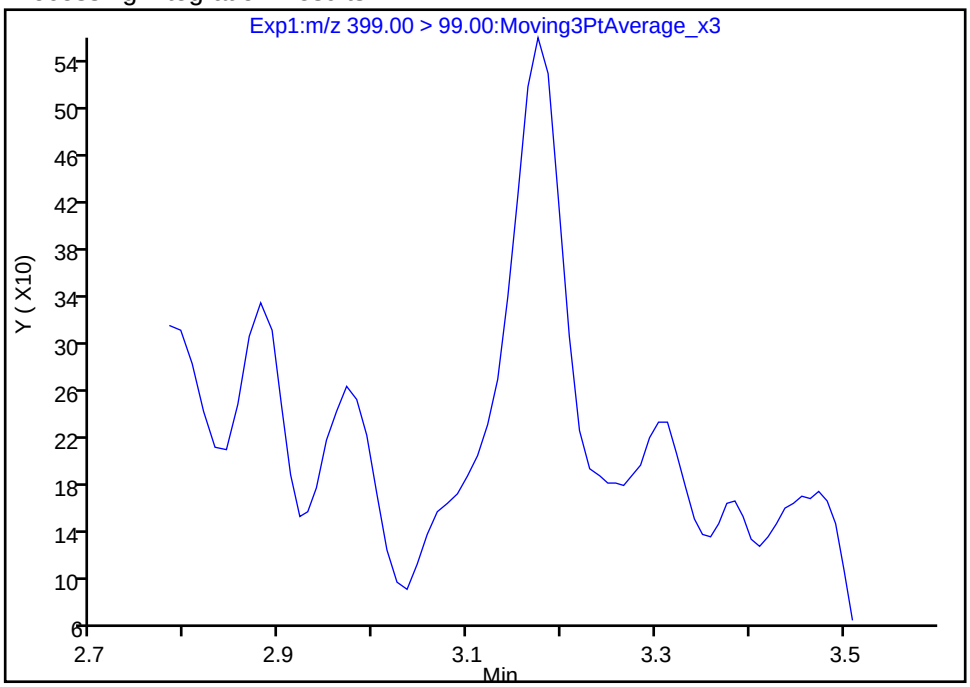
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

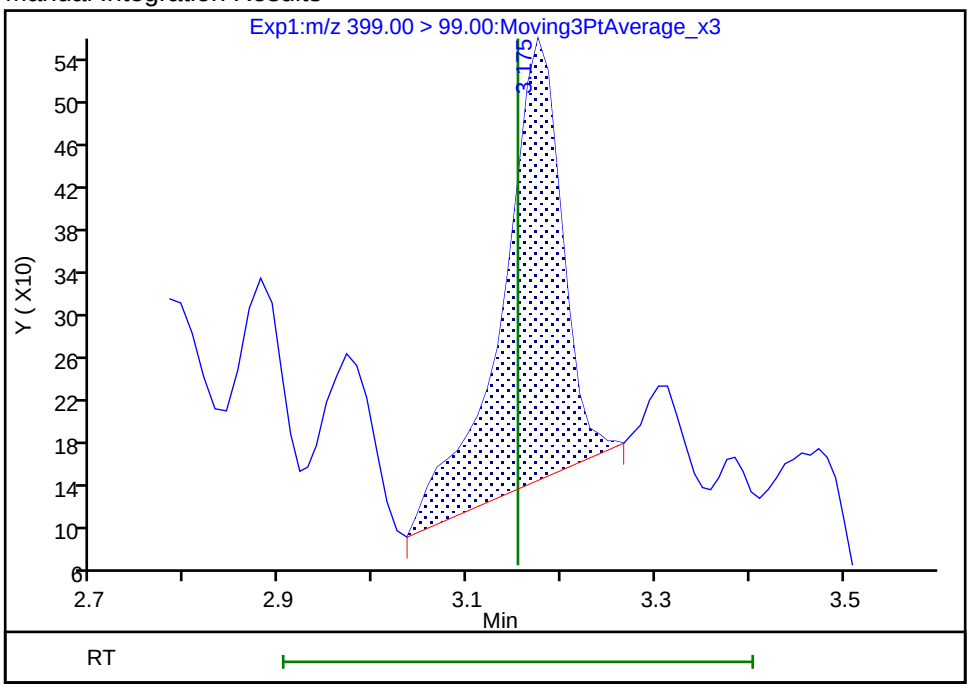
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 1819
Amount: 0.005869
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:06:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

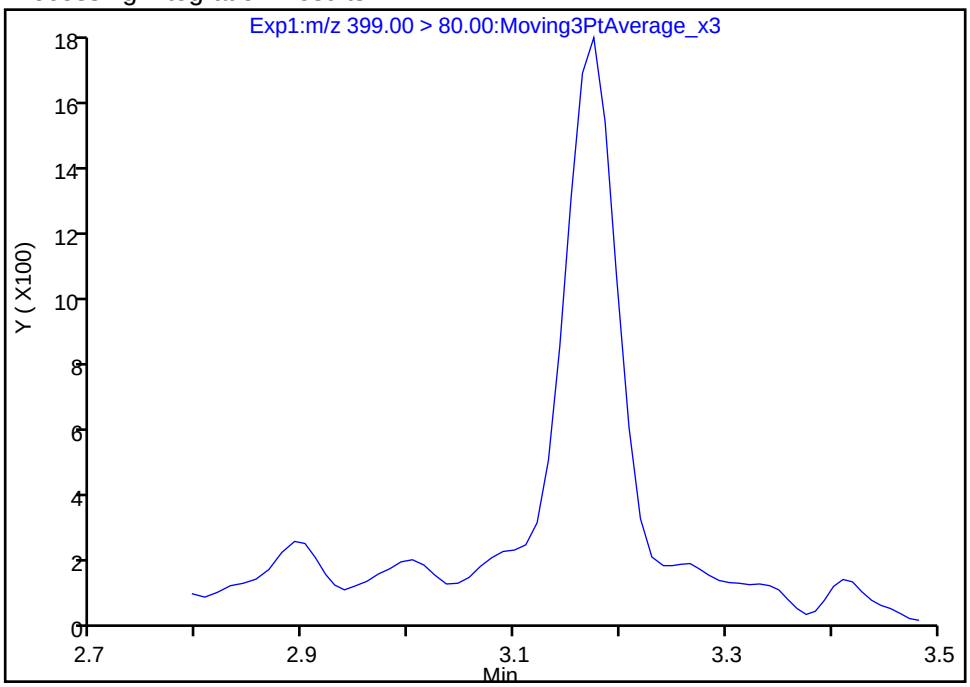
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

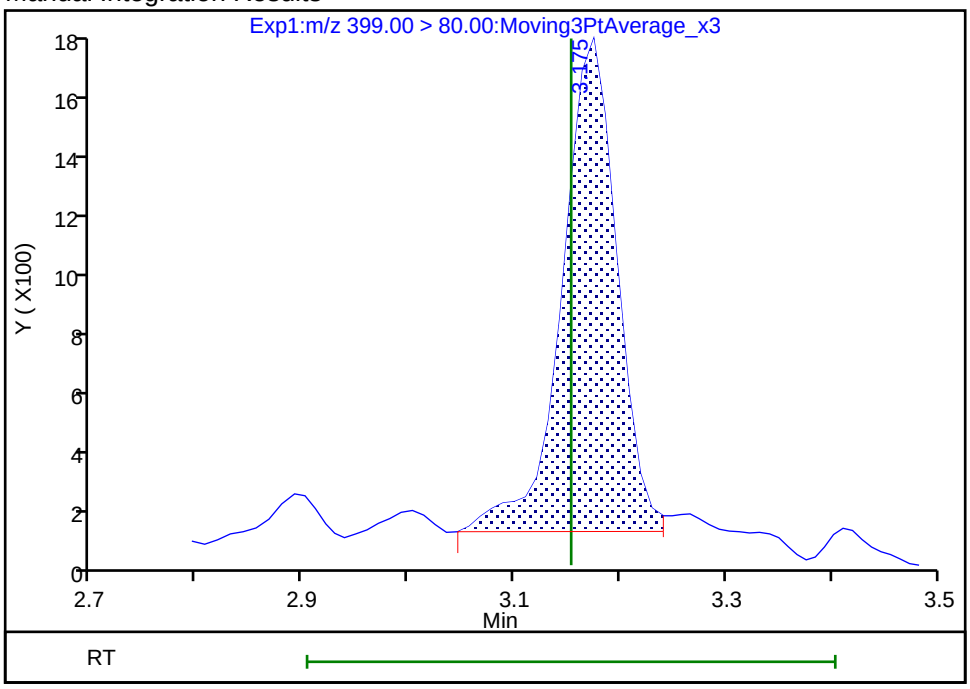
Processing Integration Results

Not Detected
Expected RT: 3.15



Manual Integration Results

RT: 3.17
Area: 5696
Amount: 0.005869
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:06:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

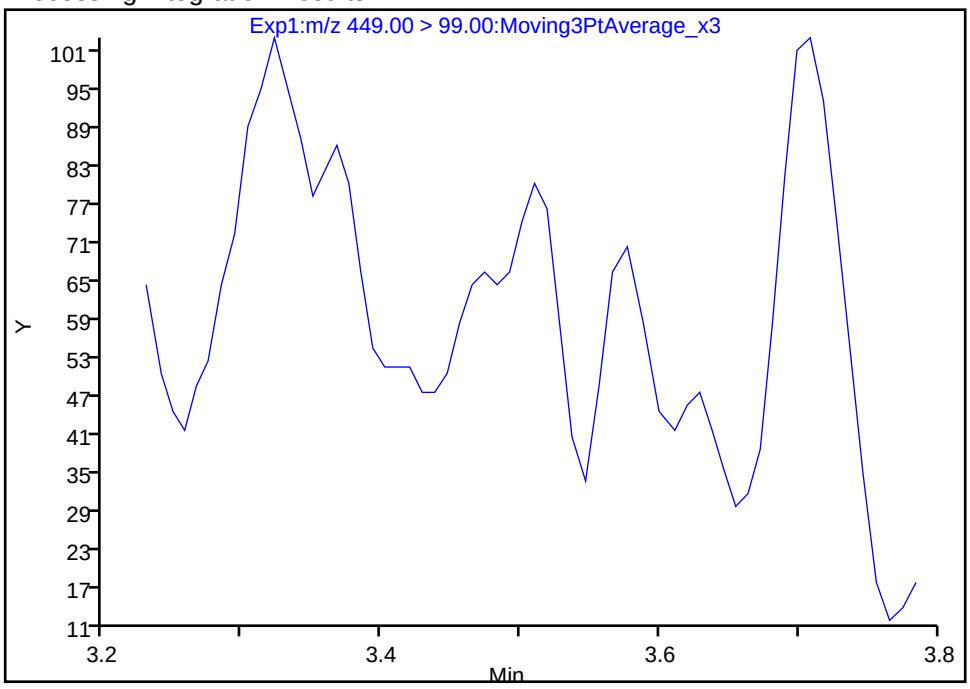
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

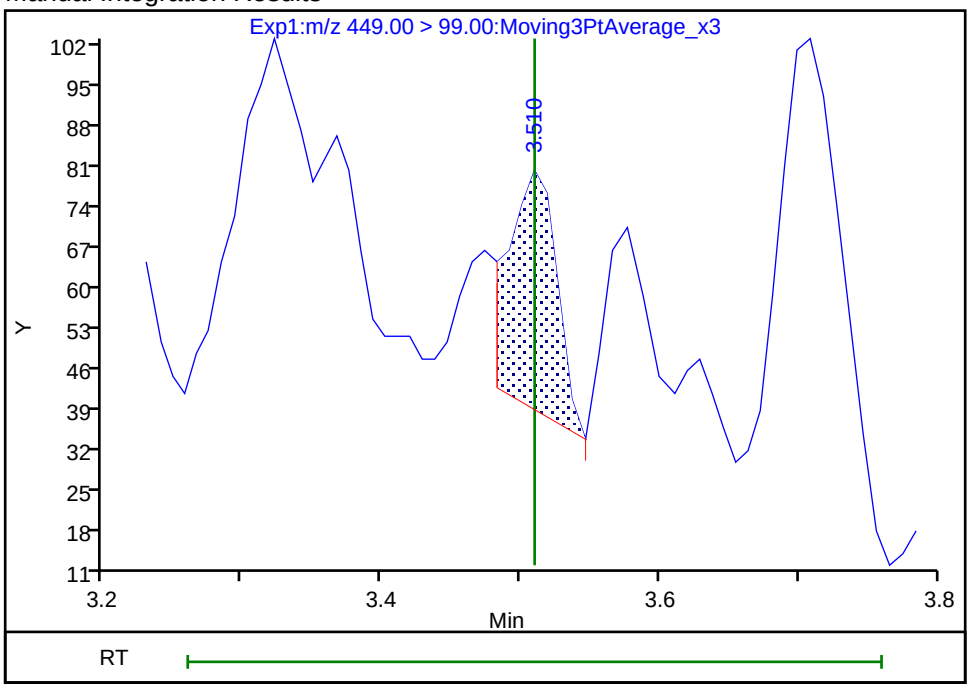
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 97
Amount: 0.000570
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:07:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

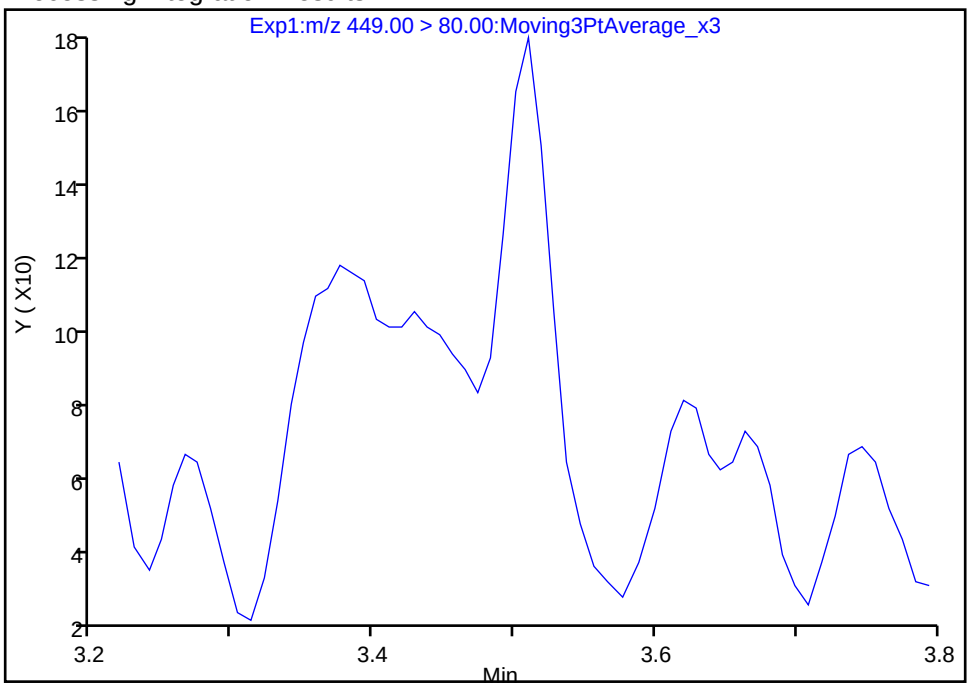
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

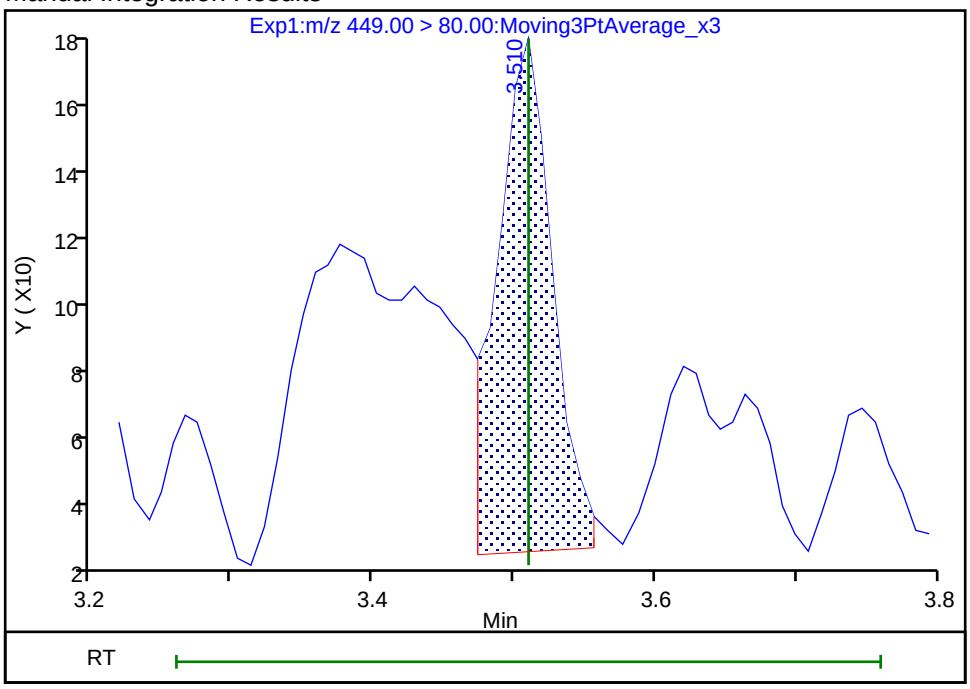
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 393
Amount: 0.000570
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:07:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

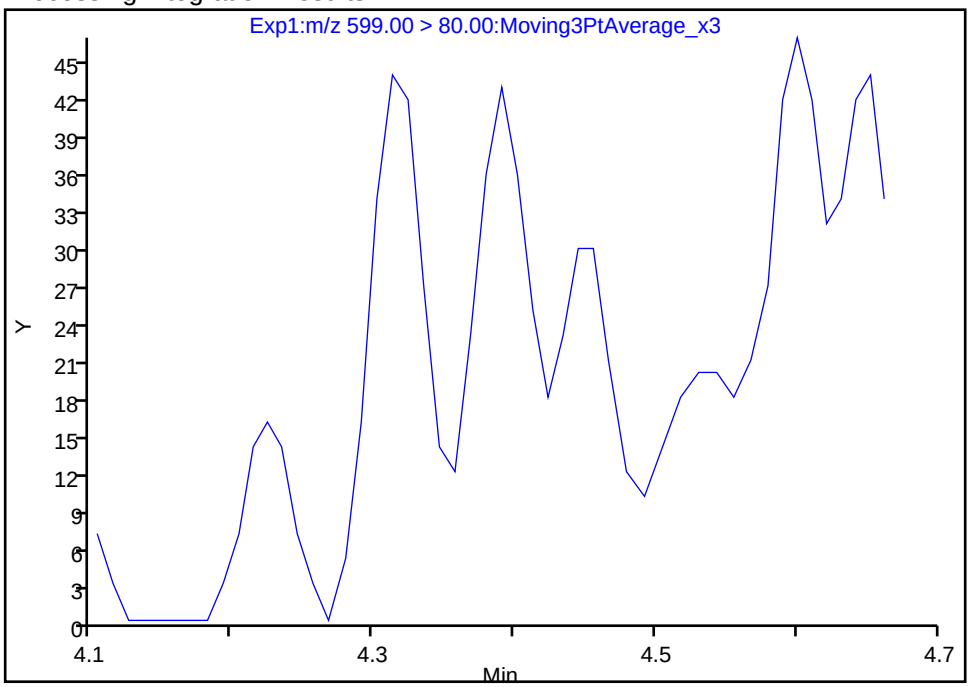
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

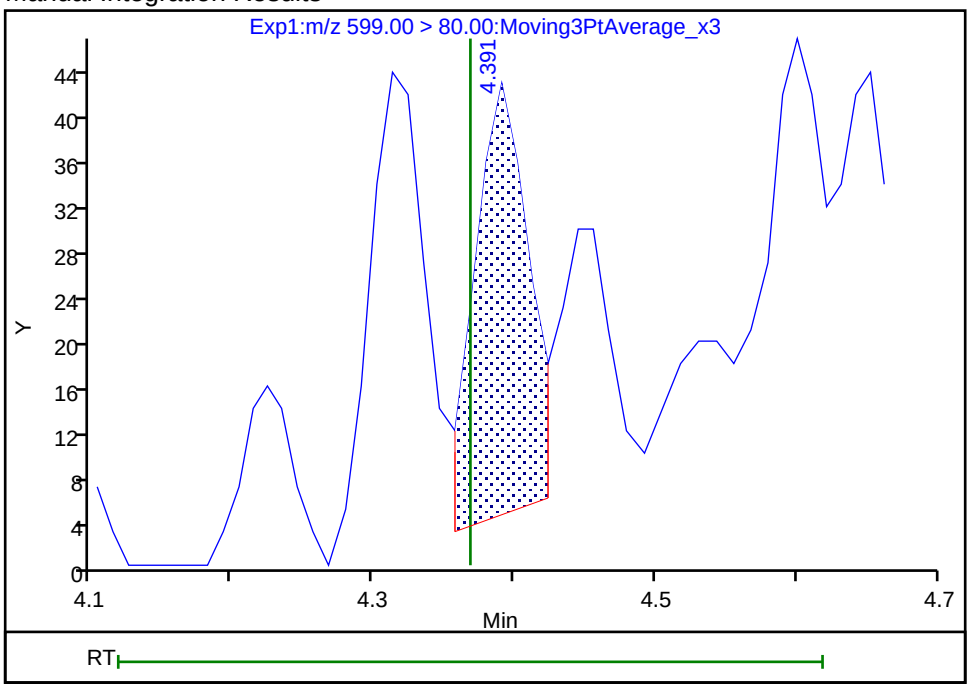
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 99
Amount: 0.000282
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:08:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

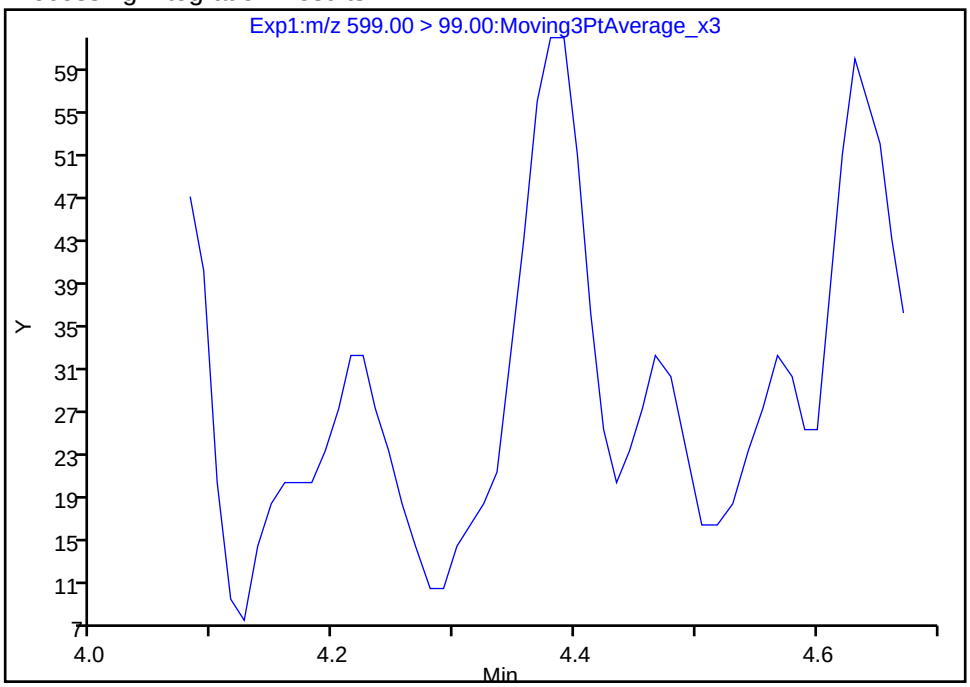
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

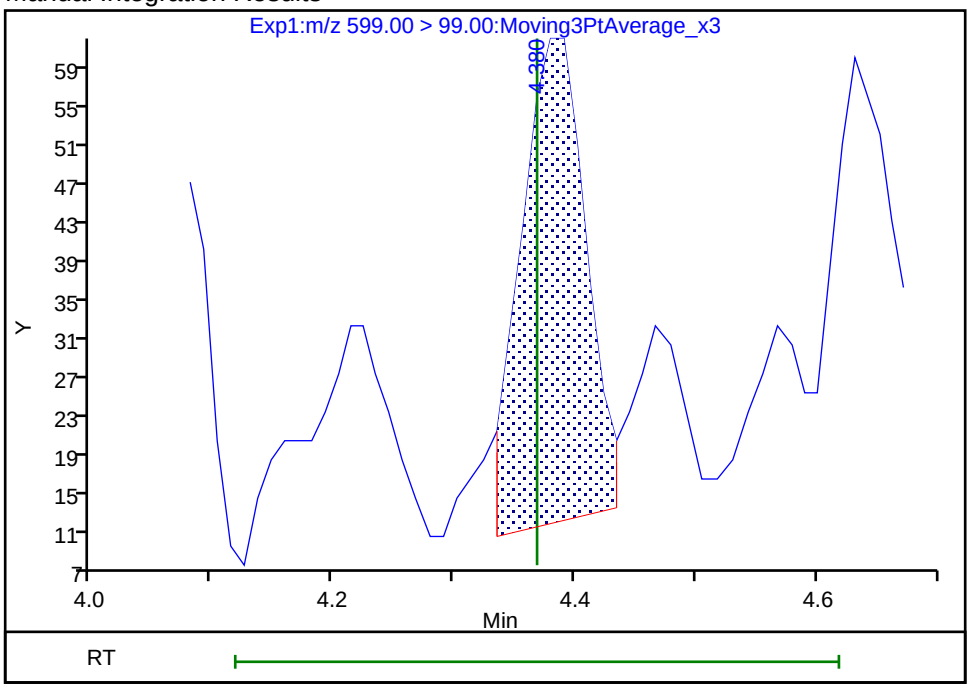
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 188
Amount: 0.000282
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:09:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

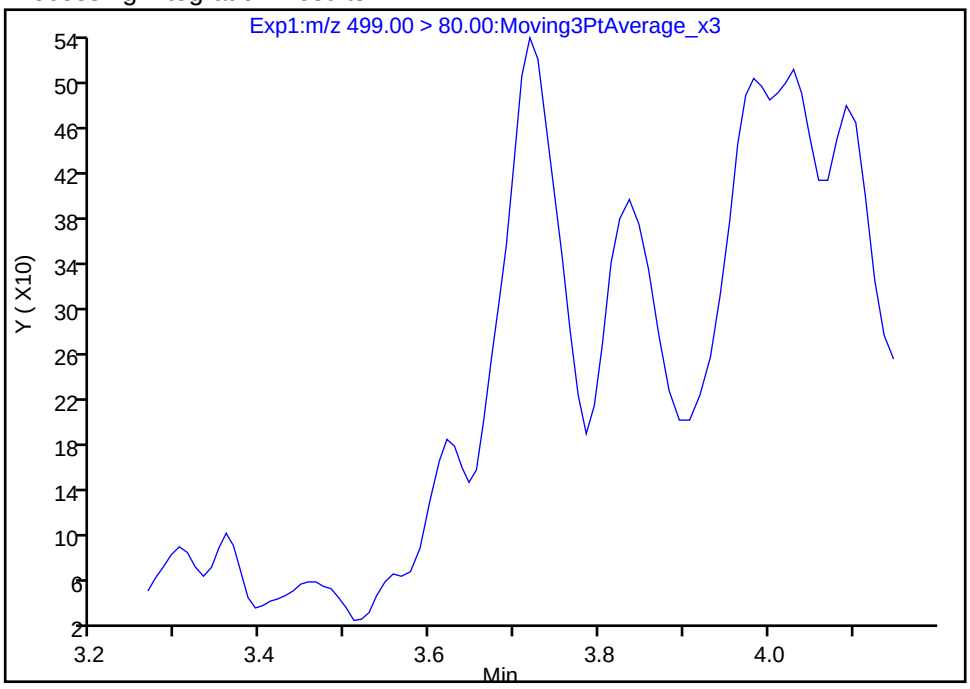
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

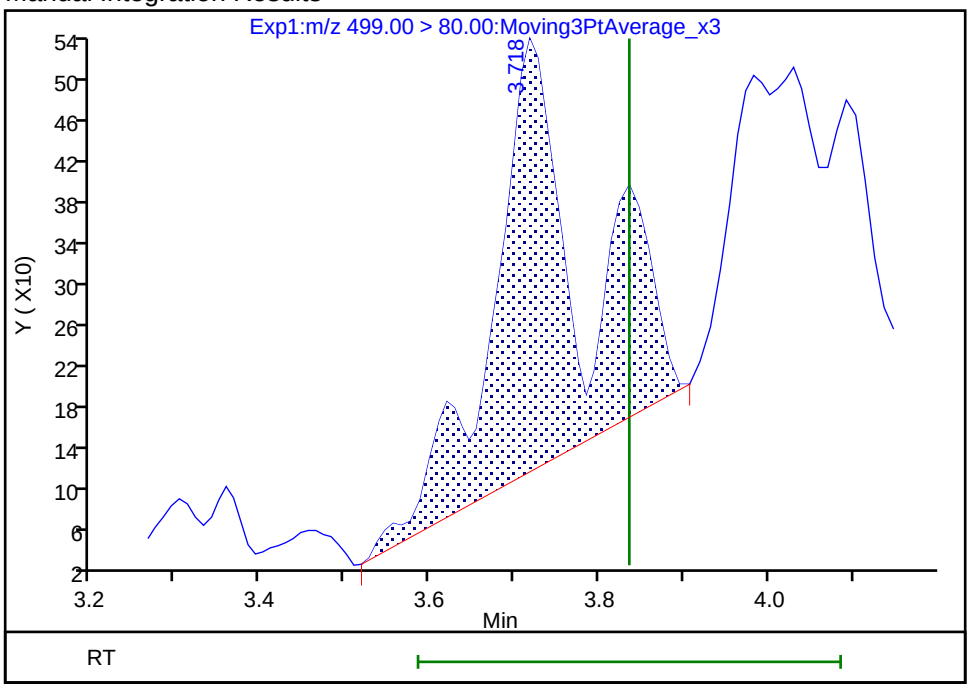
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.72
Area: 3149
Amount: 0.005072
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:08:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

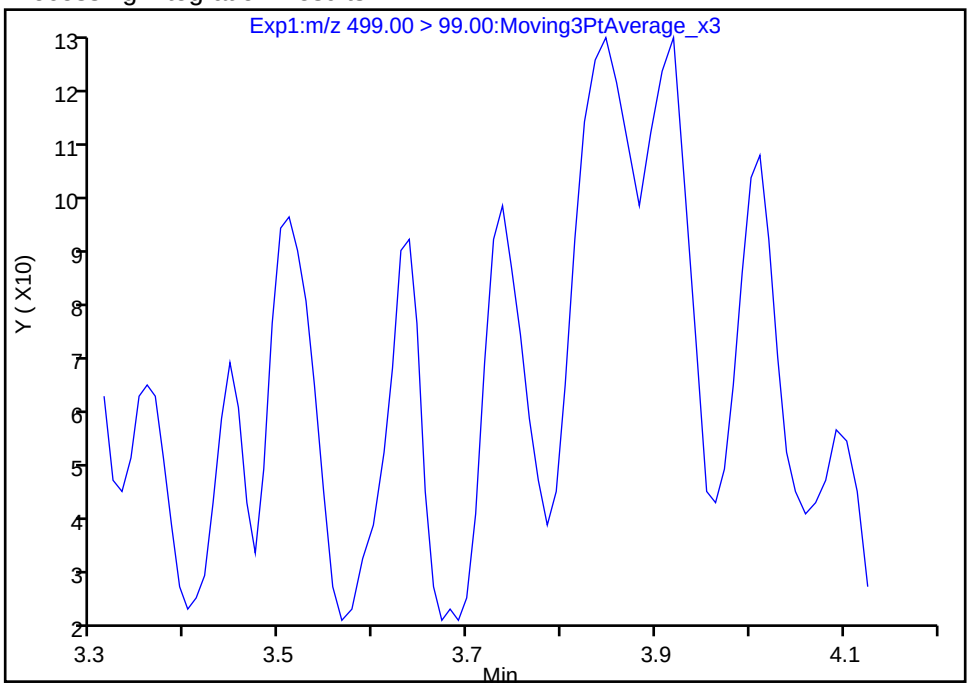
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

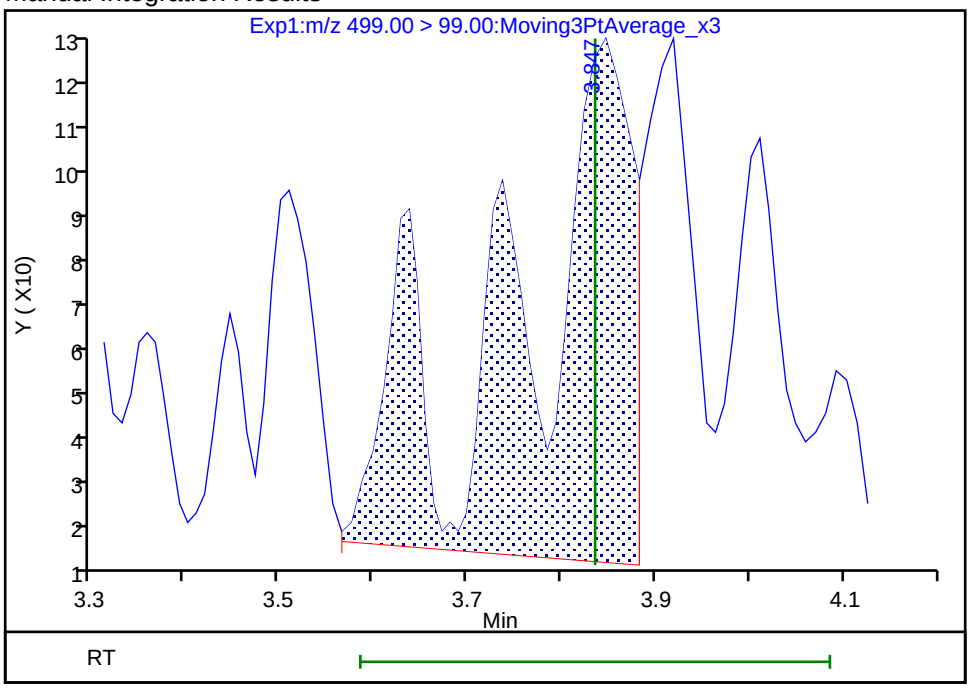
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.85
Area: 926
Amount: 0.005072
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:30:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

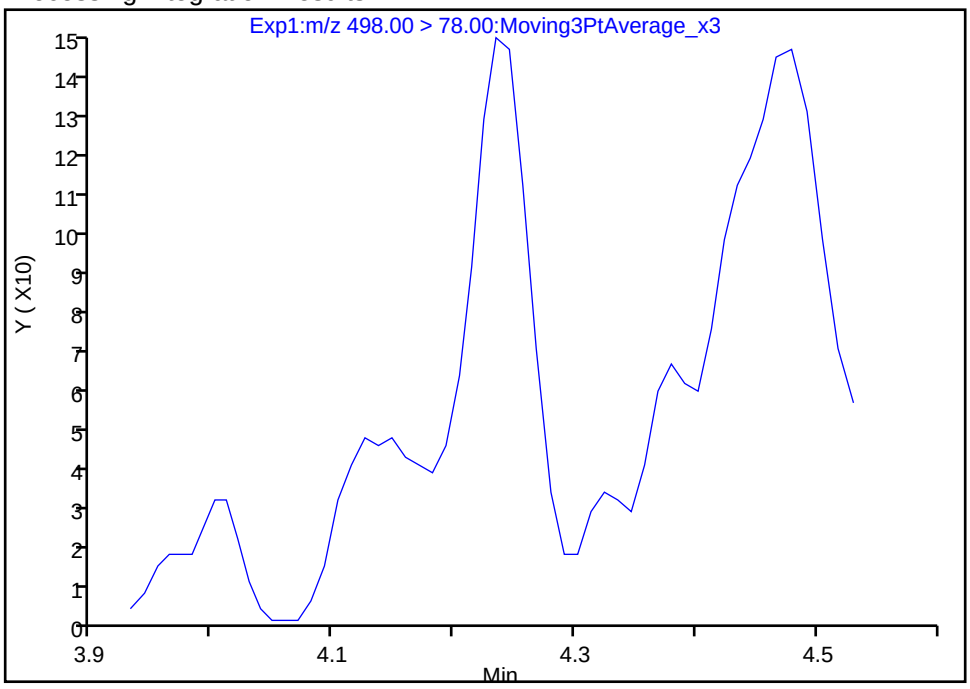
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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

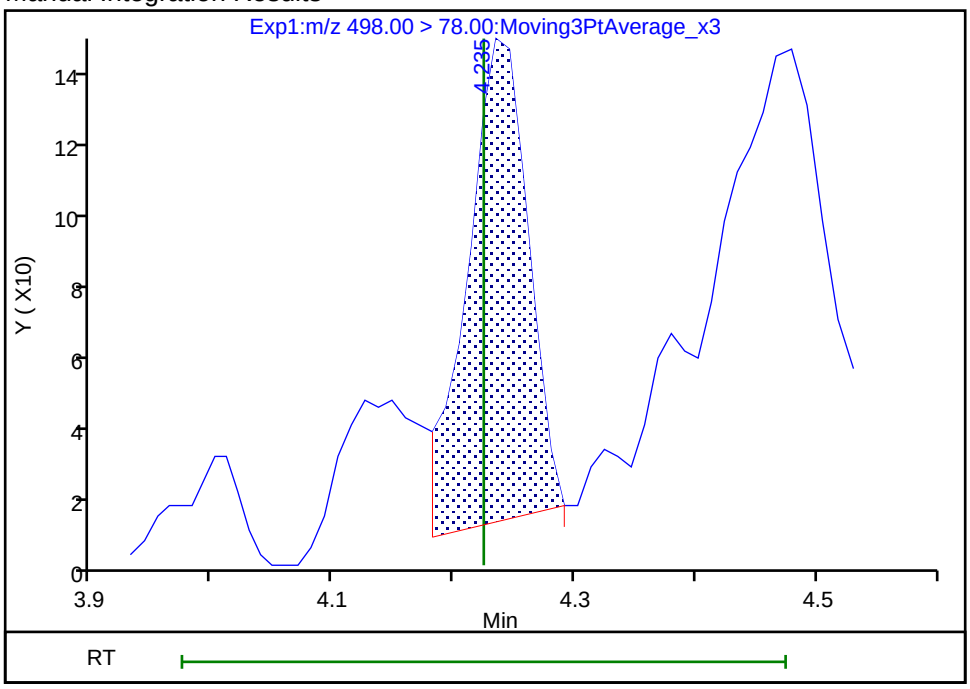
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 479
Amount: 0.000475
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:08:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

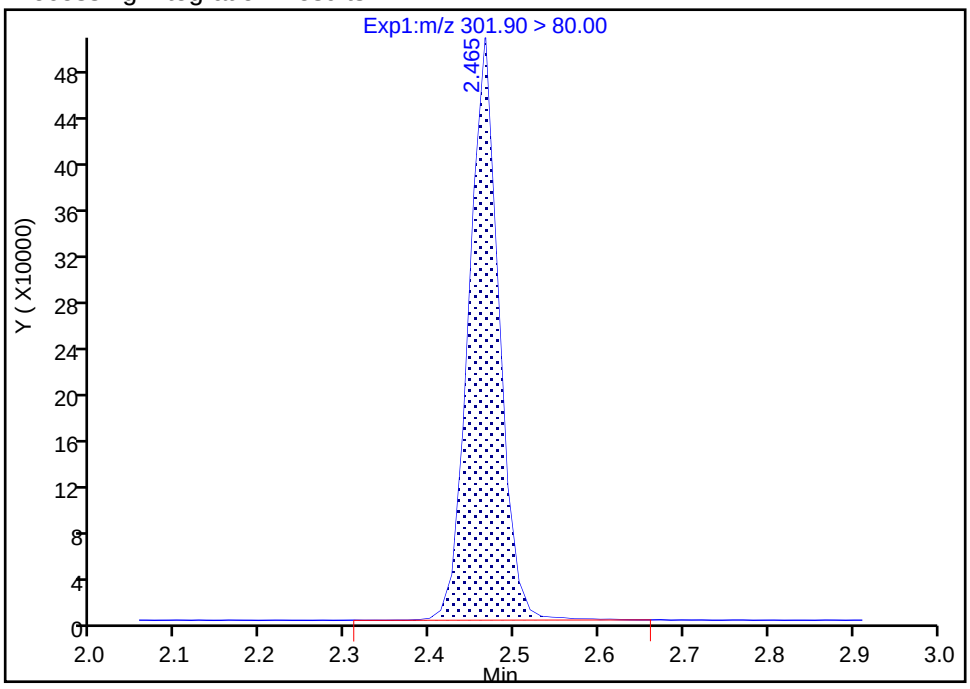
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

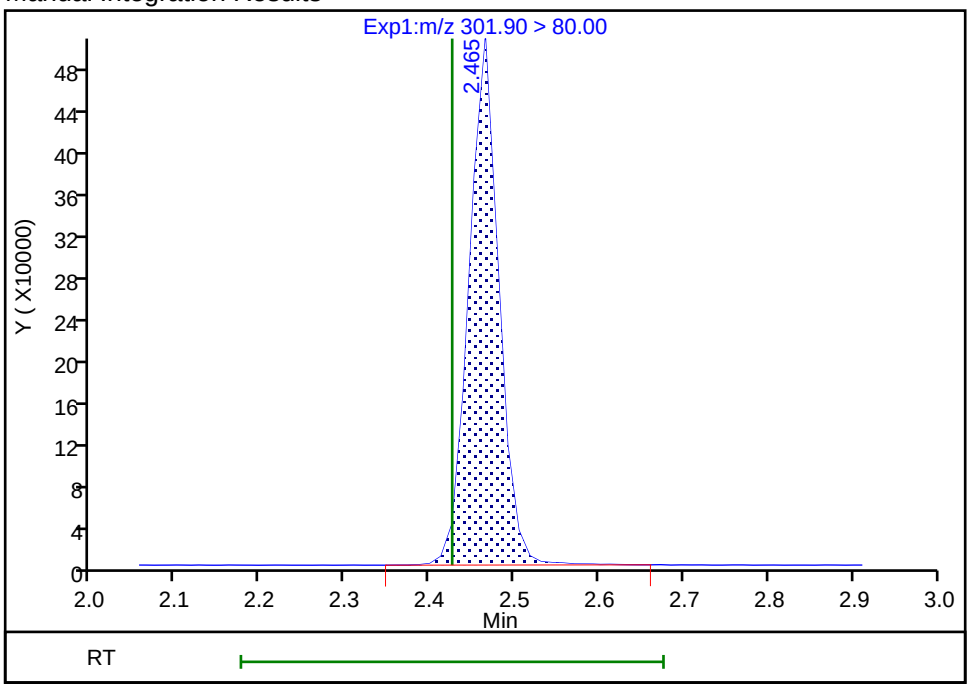
Processing Integration Results

RT: 2.47
Area: 1252220
Amount: 1.201447
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1252011
Amount: 1.201246
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:05:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

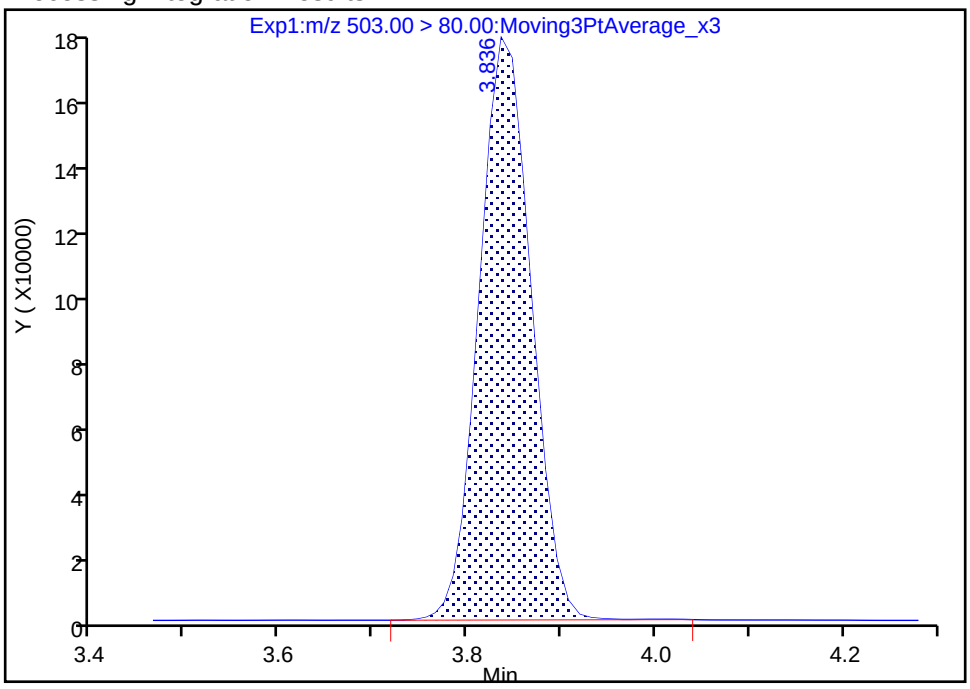
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

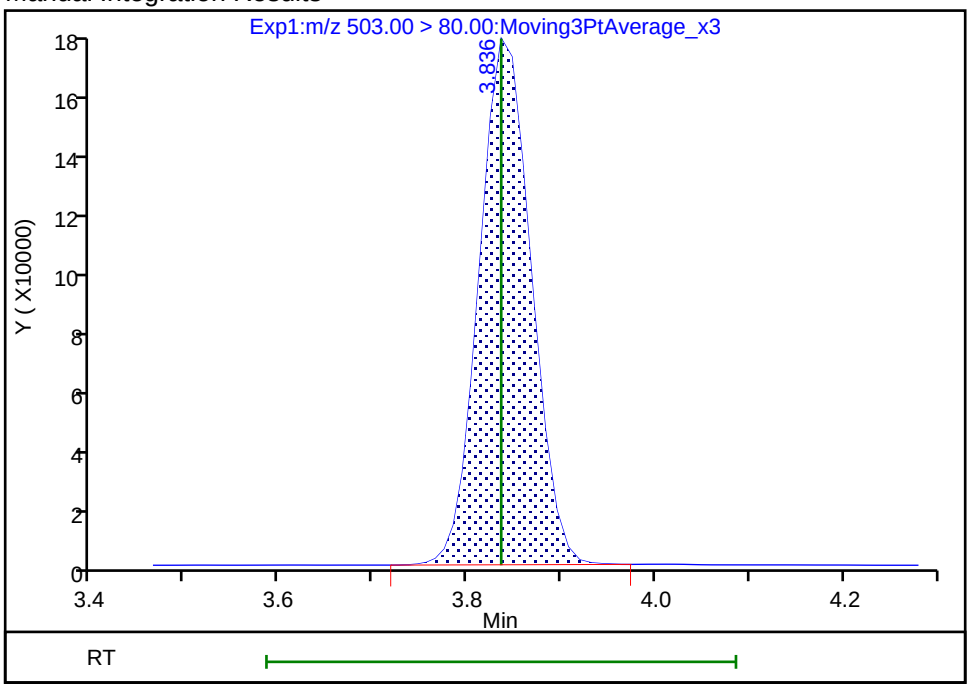
Processing Integration Results

RT: 3.84
Area: 663058
Amount: 1.097383
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 661967
Amount: 1.095578
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:05:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

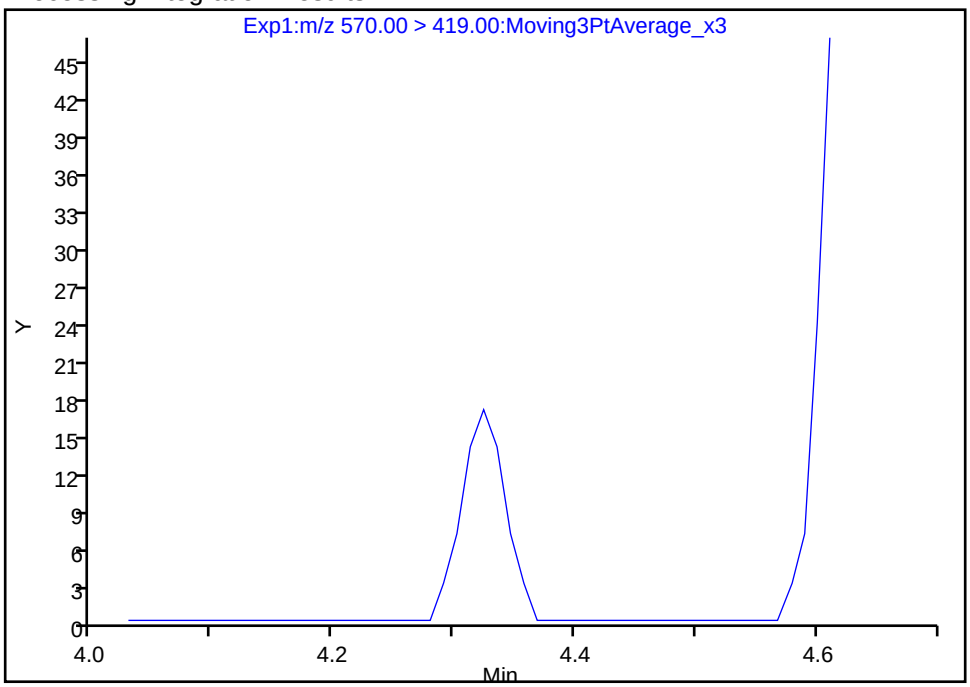
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

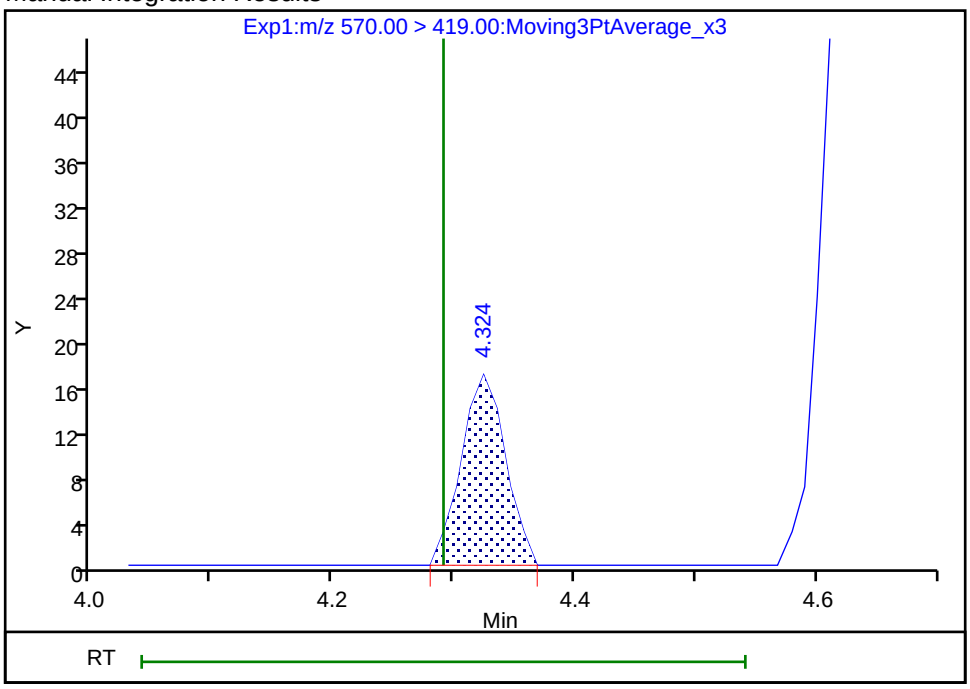
Not Detected
Expected RT: 4.29

Processing Integration Results



Manual Integration Results

RT: 4.32
Area: 43
Amount: 0.000816
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:08:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

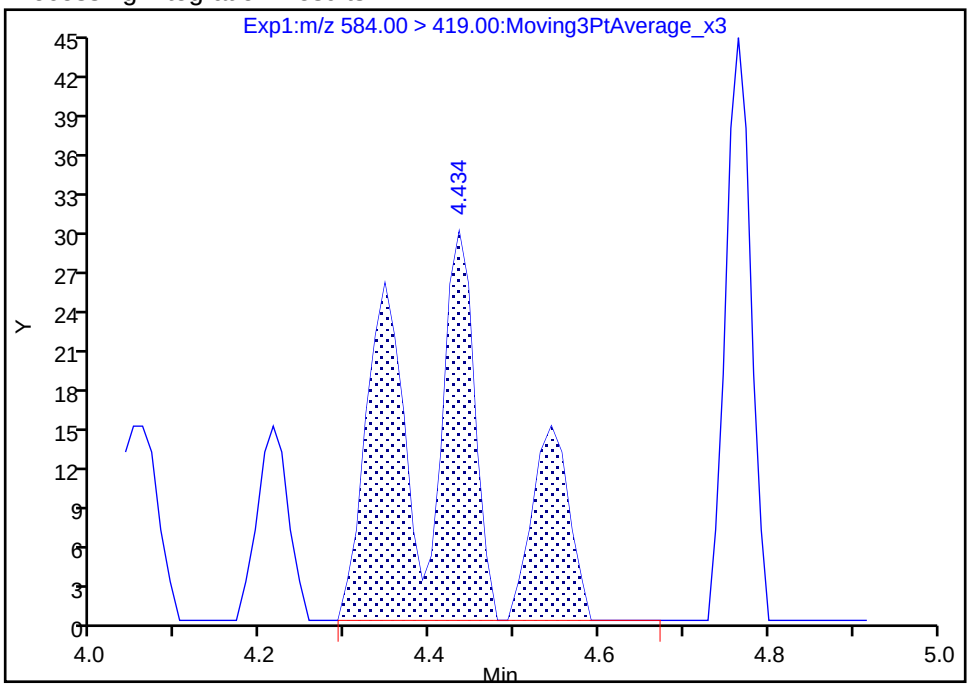
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

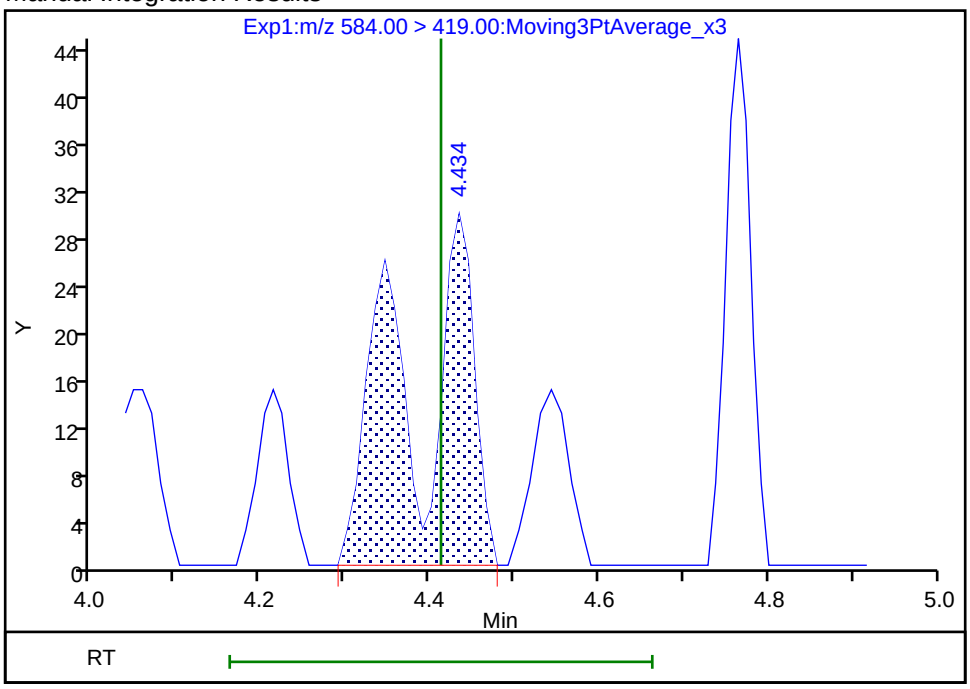
Processing Integration Results

RT: 4.43
Area: 203
Amount: 0.003950
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 157
Amount: 0.003055
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:09:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

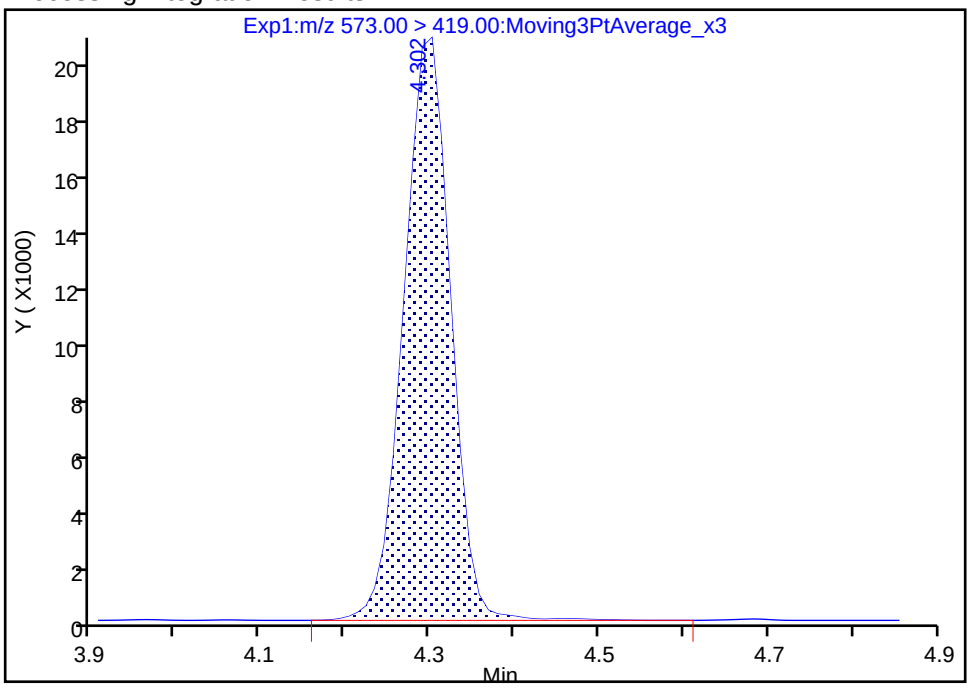
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

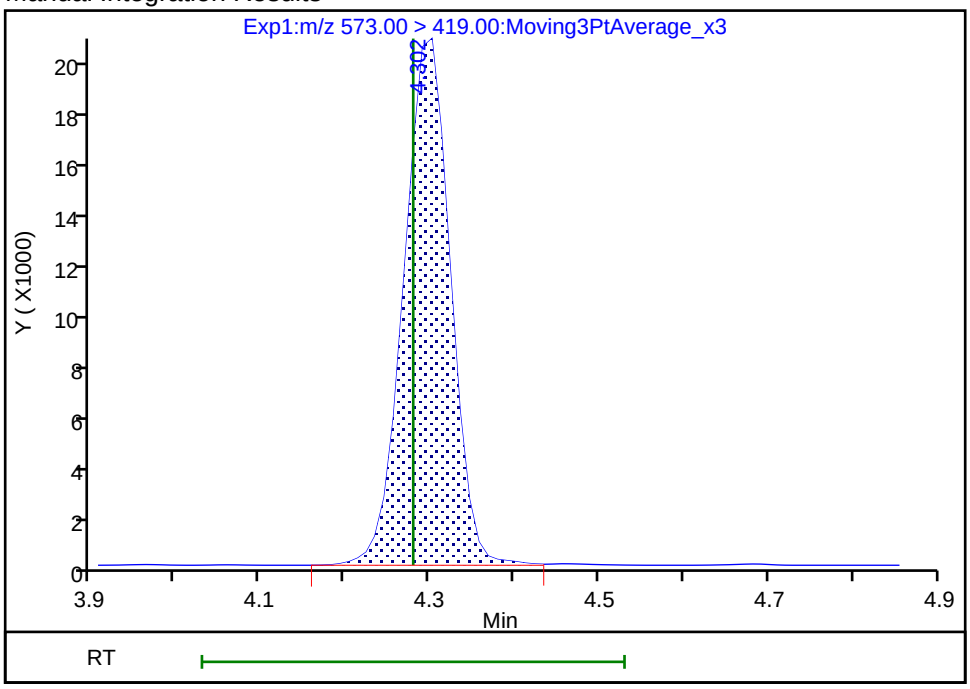
Processing Integration Results

RT: 4.30
Area: 79451
Amount: 1.117954
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 79238
Amount: 1.114956
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:05:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

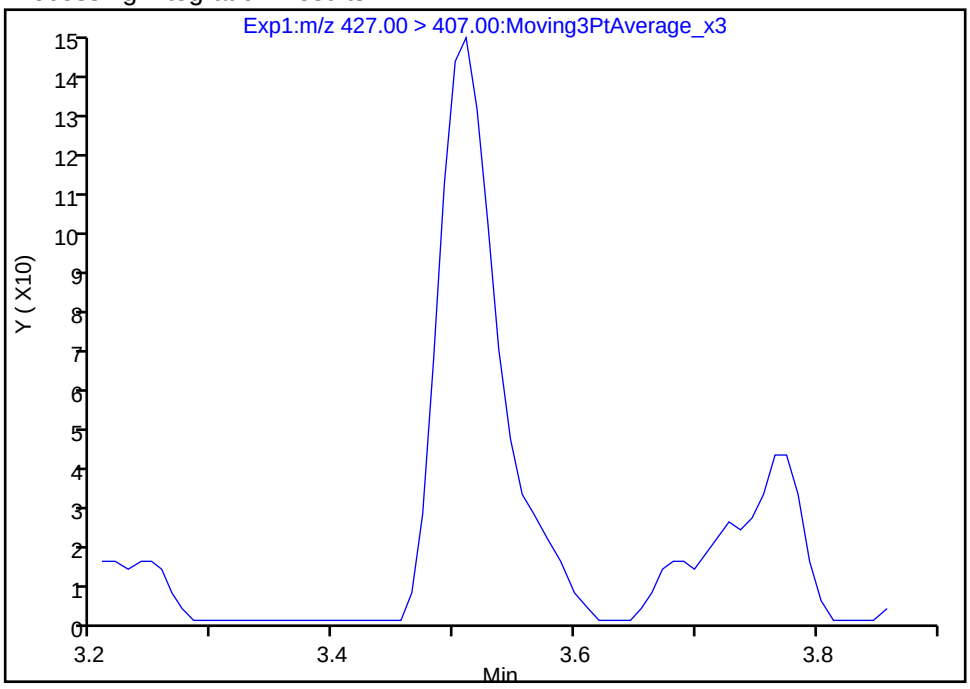
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	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-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

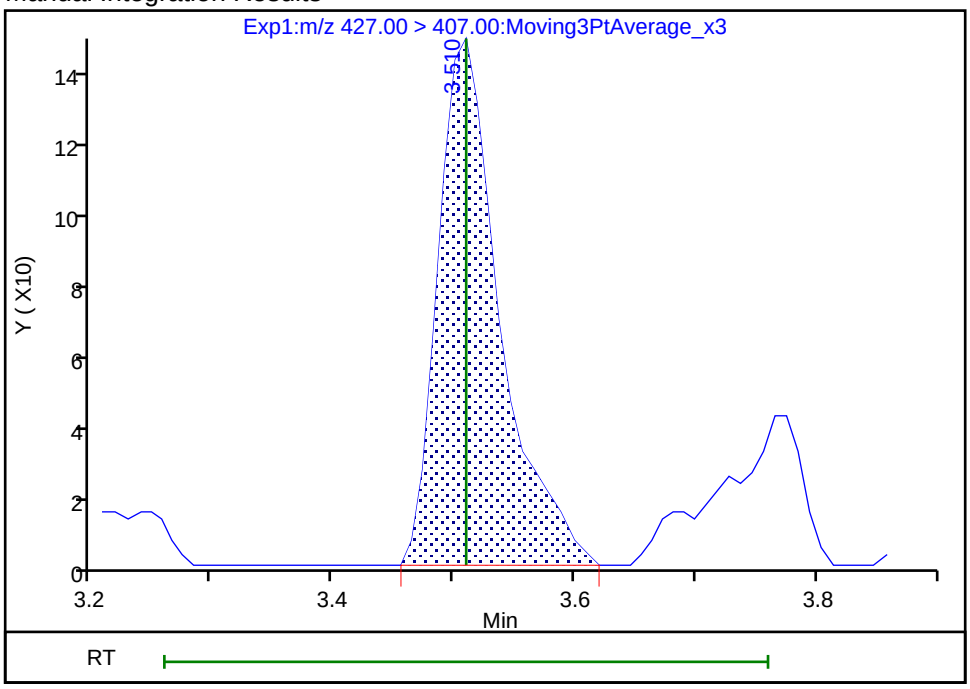
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 526
Amount: 0.004171
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:07:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

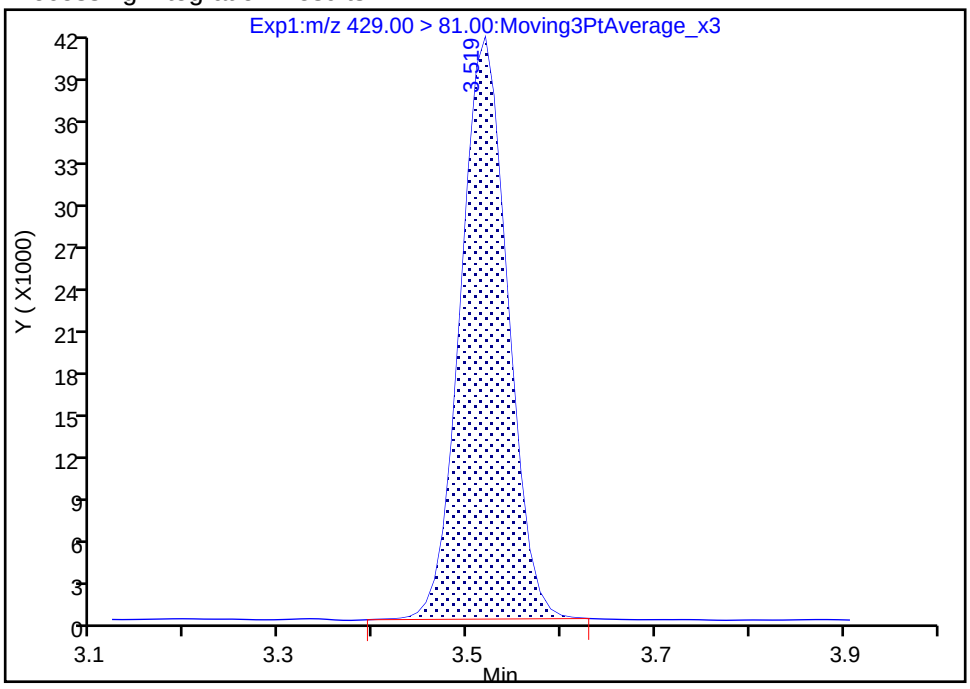
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A16.d				
Injection Date:	11-Aug-2021 14:49:50	Instrument ID:	LC812		
Lims ID:	480-188016-F-9-A	Lab Sample ID:	200-188016-9		
Client ID:	MW-99-04				
Operator ID:	lc812tech	ALS Bottle#:	13	Worklist Smp#:	16
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

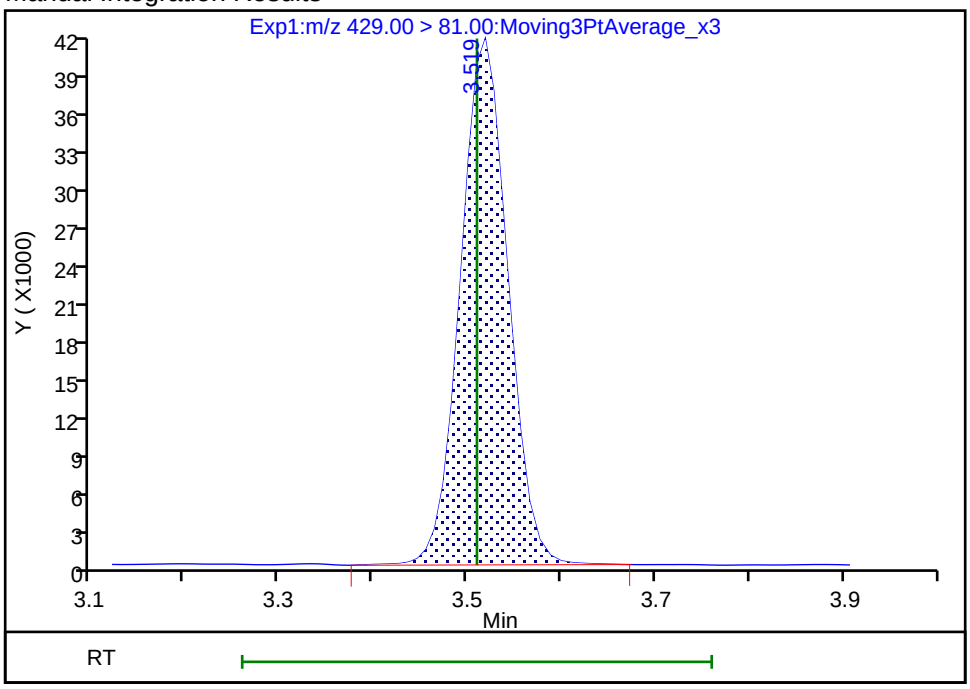
Processing Integration Results

RT: 3.52
Area: 143472
Amount: 1.249263
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 144480
Amount: 1.258040
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:05:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-27 Lab Sample ID: 480-188016-10

Matrix: Water Lab File ID: PA210811A17.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 14:56

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 260.8(mL) Date Analyzed: 08/11/2021 14:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	11		4.8	0.86
2706-90-3	Perfluoropentanoic acid (PFPeA)	32		1.9	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	27		1.9	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	4.5		1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	15		1.9	0.41
375-95-1	Perfluorononanoic acid (PFNA)	1.7	J	1.9	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.33
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.37
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.42
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.61
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.4	B	1.9	0.24
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.8	J	1.9	0.29
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.46	J	1.9	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.29
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	21		1.9	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.55
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.8	0.87
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.8	0.71
27619-97-2	6:2 FTS	ND		4.8	1.1
39108-34-4	8:2 FTS	ND		1.9	0.37

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-27 Lab Sample ID: 480-188016-10

Matrix: Water Lab File ID: PA210811A17.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 14:56

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 260.8(mL) Date Analyzed: 08/11/2021 14:58

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	95		25-150
STL00992	13C4 PFBA	88		25-150
STL01893	13C5 PFPeA	97		25-150
STL00993	13C2 PFHxA	103		50-150
STL01892	13C4 PFHpA	101		50-150
STL00990	13C4 PFOA	103		50-150
STL00995	13C5 PFNA	96		50-150
STL00996	13C2 PFDA	97		50-150
STL00997	13C2 PFUnA	80		50-150
STL00998	13C2 PFDoA	79		50-150
STL02116	13C2 PFTeDA	79		50-150
STL02337	13C3 PFBS	102		50-150
STL00994	18O2 PFHxS	104		50-150
STL00991	13C4 PFOS	99		50-150
STL02118	d3-NMeFOSAA	89		50-150
STL02117	d5-NEtFOSAA	78		50-150
STL02279	M2-6:2 FTS	107		25-150
STL02280	M2-8:2 FTS	90		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d
Lims ID: 480-188016-F-10-A
Client ID: MW-86-27
Sample Type: Client
Inject. Date: 11-Aug-2021 14:58:10 ALS Bottle#: 14 Worklist Smp#: 17
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-F-10-A
Misc. Info.: 200-0047128-017 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:32:14 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 10:15:32
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	2.107	2.082	0.025	0.597	1483291	1.10		88.0	8525	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.107	2.082	0.025	1.000	339212	0.2966			46.8	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.437	2.413	0.024	0.691	1231089	1.21		96.5	2932	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.437	2.413	0.024	1.000	847647	0.8316			61.6	
D 47 13C3 PFBS										M
301.90 > 80.00	2.463	2.426	0.037	0.698	1278546	1.18		102	161514	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.463	2.426	0.037	1.000	73887	0.0622	Target=2.20		37.7	
298.90 > 99.00	2.463	2.426	0.037	1.000	34515		2.14(1.10-3.30)		25.7	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.805	2.782	0.023	0.795	1449761	1.29		103	3772	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.805	2.782	0.023	1.000	825363	0.7073	Target=12.93		160	M
313.00 > 119.00	2.805	2.782	0.023	1.000	62746		13.15(6.46-19.39)		167	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.164	3.154	0.010	0.897	1057145	1.23		104	3052	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.175	3.154	0.021	1.003	49584	0.0479	Target=4.48		89.9	M
399.00 > 99.00	3.164	3.154	0.010	1.000	11944		4.15(2.24-6.72)		18.6	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.175	3.154	0.021	1.000	138724	0.1180	Target=3.68		40.6	M
363.00 > 169.00	3.175	3.154	0.021	1.000	37143		3.73(1.84-5.53)		93.3	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.175	3.154	0.021	0.900	1420803	1.26		101	3814	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.510	3.510	0.0	0.915	9224	0.0120	Target=6.56		22.3	M
449.00 > 99.00	3.510	3.510	0.0	0.915	1264		7.30(3.28-9.84)		4.4	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.519	3.510	0.009	0.997	151965	1.28		107	406	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.519	3.510	0.009	1.000	1221	0.009206			21.3	M
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1494473	1.28		103	4025	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1473035	1.25			2924	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	490324	0.3897	Target=2.67		180	
413.00 > 169.00	3.528	3.519	0.009	1.000	199469		2.46(1.33-4.00)		520	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.087	738149	1.18		98.5	2606	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	372991	0.5388	Target=6.69		211	M
499.00 > 99.00	3.836	3.836	0.0	1.000	46638		8.00(3.34-10.03)		161	M
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.094	1326383	1.20		96.0	3466	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.859	3.858	0.001	1.000	44201	0.0431	Target=7.21		17.1	M
463.00 > 169.00	3.859	3.858	0.001	1.000	6056		7.30(3.60-10.81)		52.2	M
D 23 13C2 PFDA										
515.00 > 470.00	4.149	4.148	0.0	1.176	1216018	1.21		97.0	4468	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.149	4.148	0.0	1.000	5723	0.005527	Target=8.42		6.4	M
513.00 > 169.00	4.149	4.148	0.0	1.000	1072		5.34(4.21-12.63)		9.7	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.149	4.160	-0.012	0.997	264	0.004128			6.7	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.179	153718	1.08		90.5	827	
D 21 13C8 FOSA										M
506.00 > 78.00	4.235	4.224	0.011	1.200	1308765	1.18		94.7	2847	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.235	4.224	0.011	1.000	859	0.000839			3.2	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.291	4.280	0.011	1.216	82133	1.11		89.1	807	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.251	798093	1.00		80.3	4109	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.402	4.402	0.0	0.997	420	0.000680	Target=7.70		0.7	RM
563.00 > 169.00	4.402	4.402	0.0	0.997	286		1.47(3.85-11.56)		5.4	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.413	0.011	1.254	74583	0.9718		77.7	587	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.391	4.413	-0.022	0.993	42	0.000831			1.0	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.642	4.632	0.010	1.316	813184	0.9893		79.1	3127	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.043	5.034	0.009	1.429	636481	0.9878		79.0	2911	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.053	5.034	0.019	1.002	184	0.002103	Target=1.00		3.9	M
713.00 > 219.00	5.053	5.034	0.019	1.002	189		0.97(0.50-1.51)		8.0	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:32:33 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d

Injection Date: 11-Aug-2021 14:58:10 Instrument ID: LC812

Lims ID: 480-188016-F-10-A Lab Sample ID: 200-188016-10

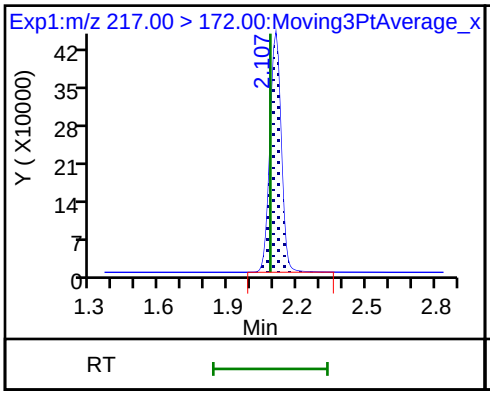
Client ID: MW-86-27

Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 17

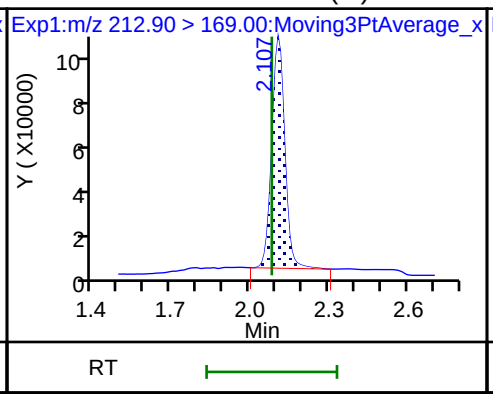
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

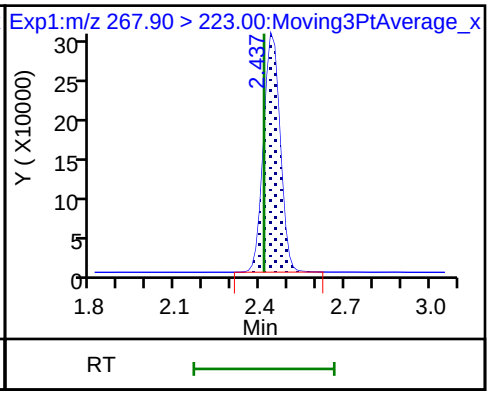
D 1 13C4 PFBA



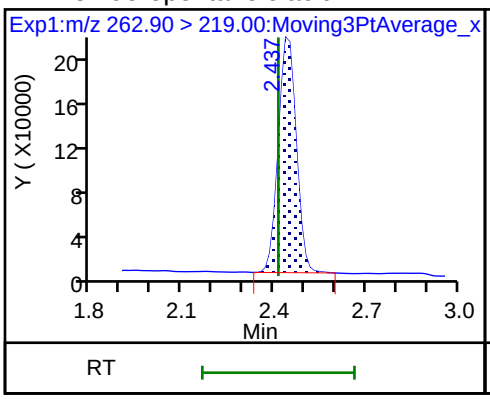
2 Perfluorobutanoic acid (M)



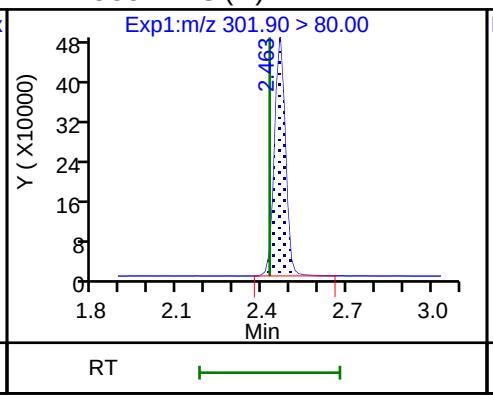
D 3 13C5 PFPeA



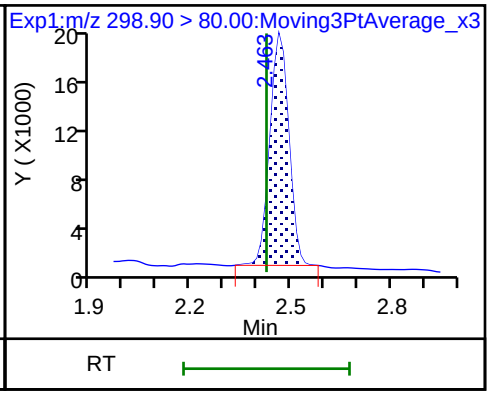
4 Perfluoropentanoic acid



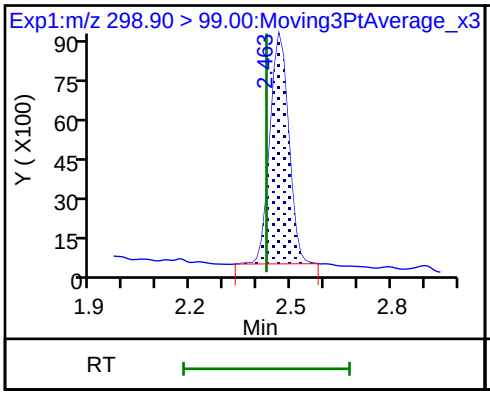
D 47 13C3 PFBS (M)



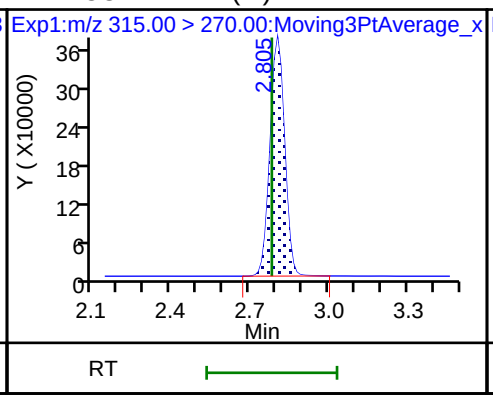
5 Perfluorobutanesulfonic acid



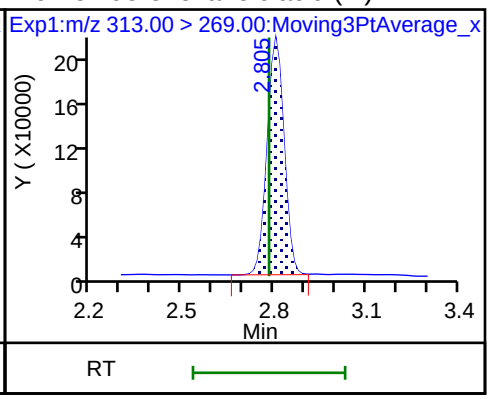
5 Perfluorobutanesulfonic acid



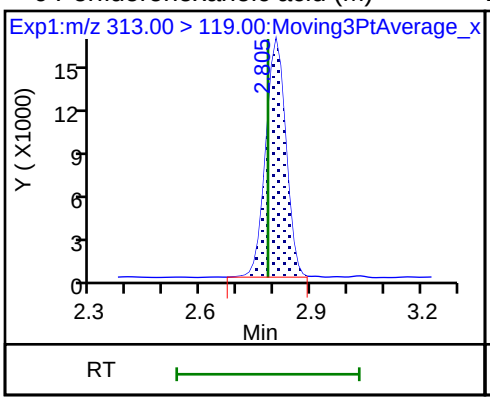
D 7 13C2 PFHxA (M)



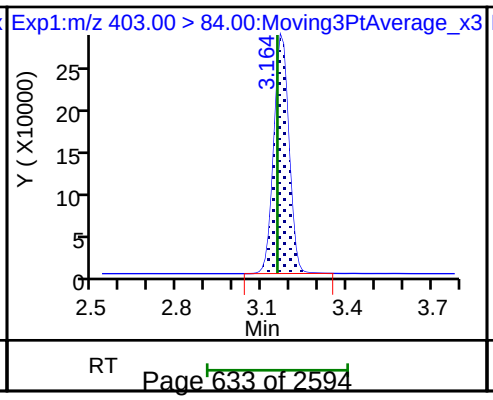
6 Perfluorohexanoic acid (M)



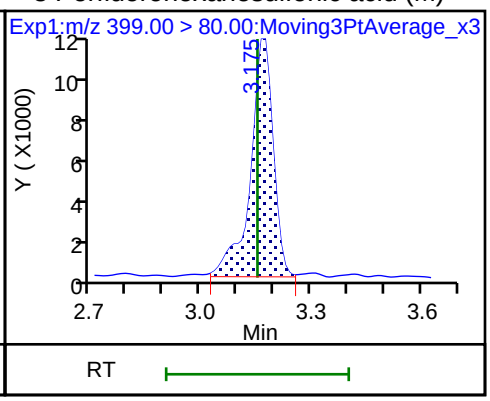
6 Perfluorohexanoic acid (M)



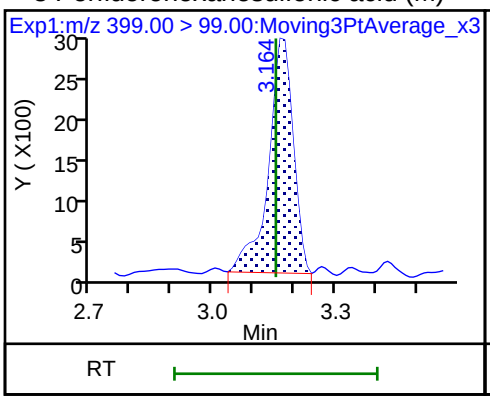
D 11 18O2 PFHxS



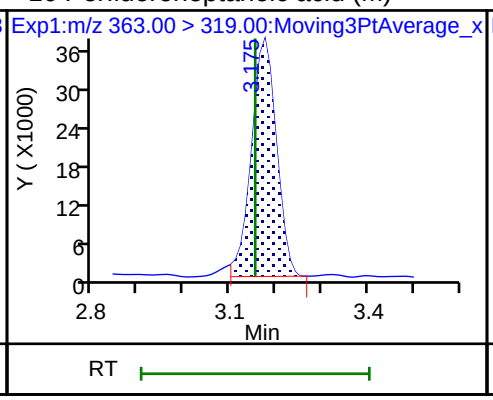
8 Perfluorohexanesulfonic acid (M)



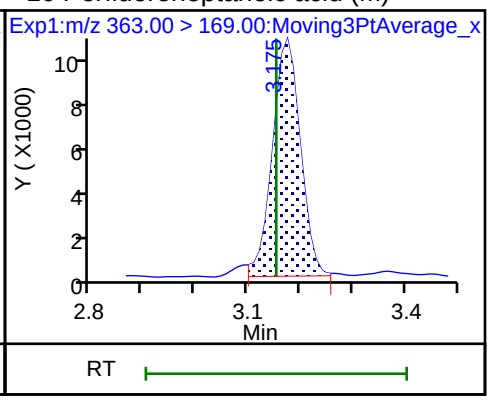
8 Perfluorohexanesulfonic acid (M)



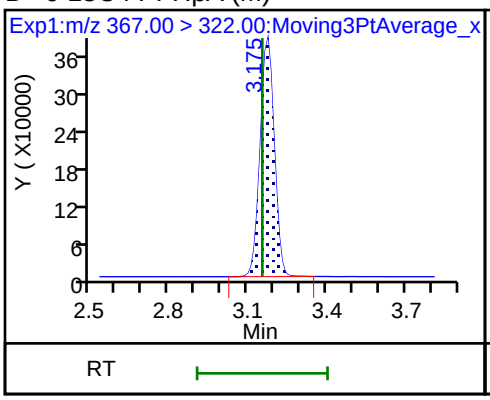
10 Perfluoroheptanoic acid (M)



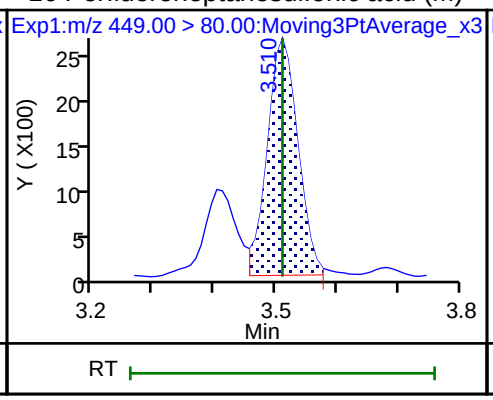
10 Perfluoroheptanoic acid (M)



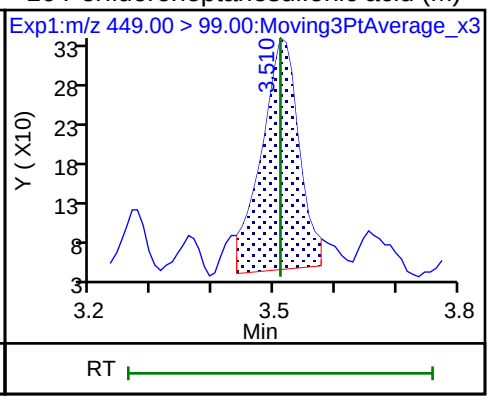
D 9 13C4 PFHpA (M)



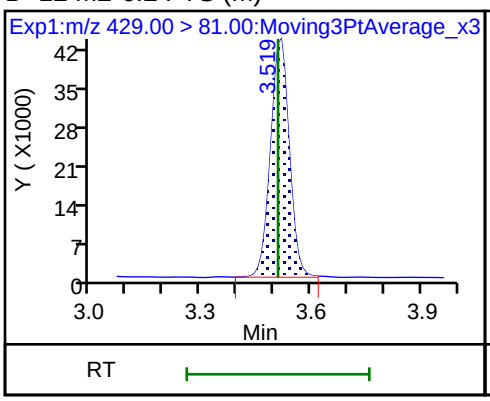
16 Perfluoroheptanesulfonic acid (M)



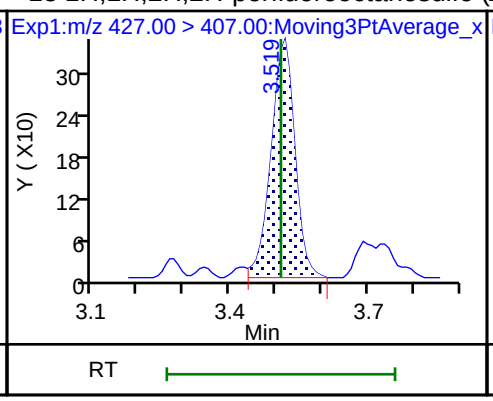
16 Perfluoroheptanesulfonic acid (M)



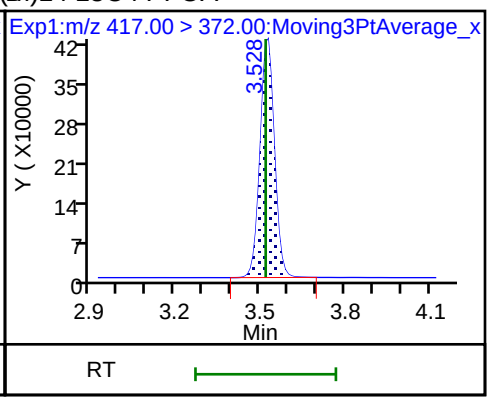
D 12 M2-6:2 FTS (M)



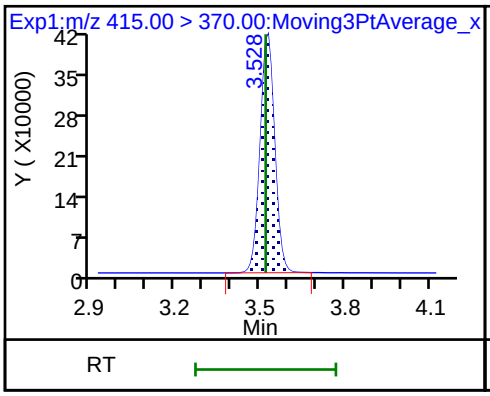
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



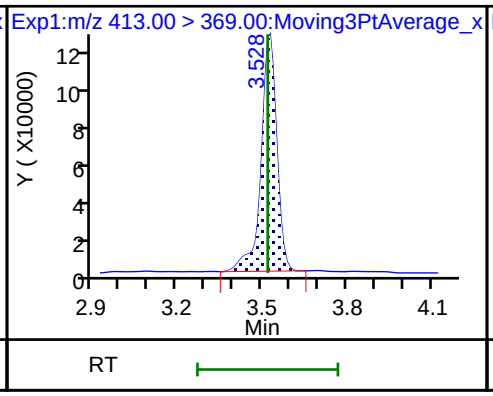
D 14 13C4 PFOA



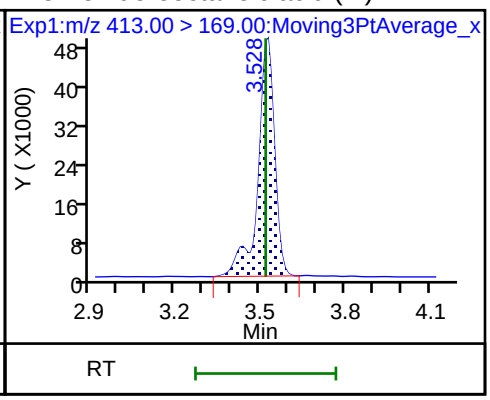
* 62 13C2 PFOA



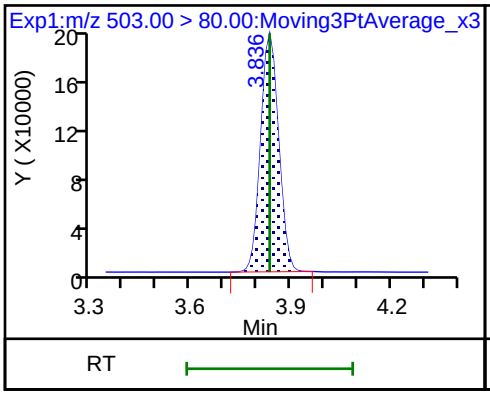
15 Perfluorooctanoic acid



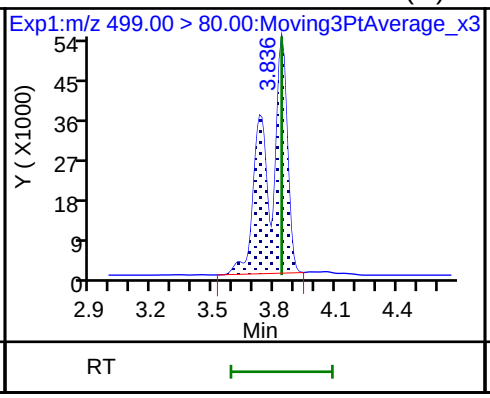
15 Perfluorooctanoic acid (M)



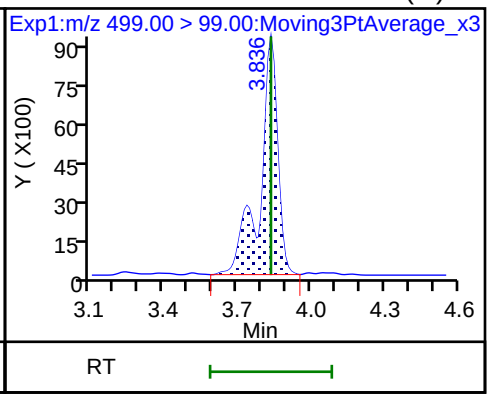
D 18 13C4 PFOS



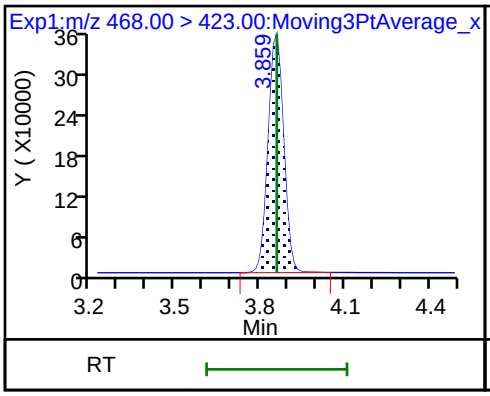
17 Perfluorooctanesulfonic acid (M)



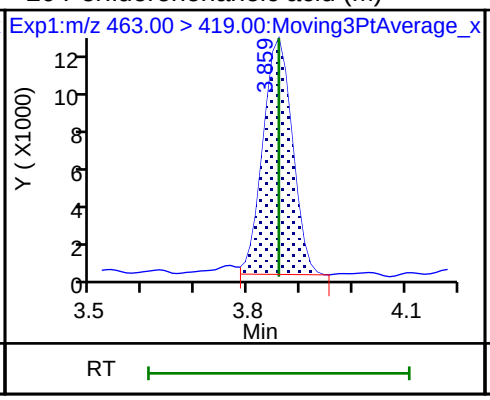
17 Perfluorooctanesulfonic acid (M)



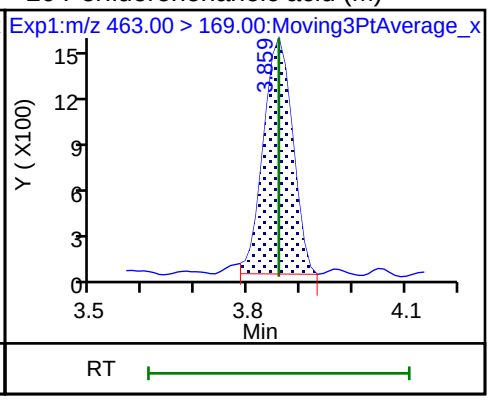
D 19 13C5 PFNA



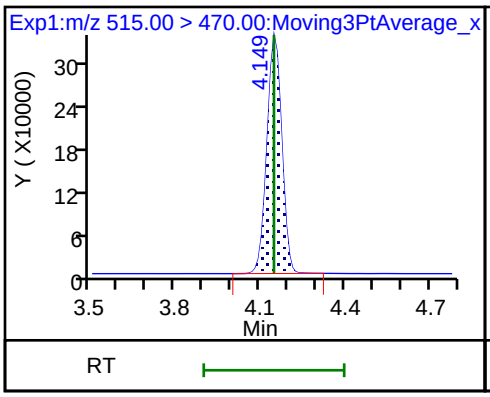
20 Perfluorononanoic acid (M)



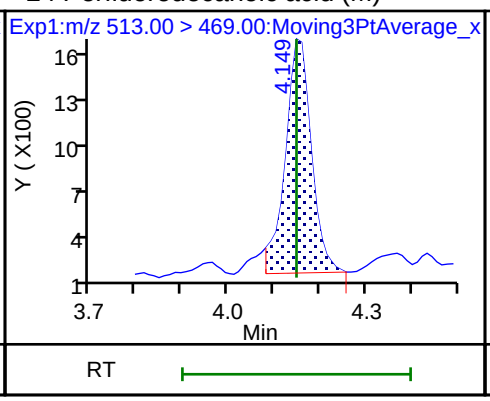
20 Perfluorononanoic acid (M)



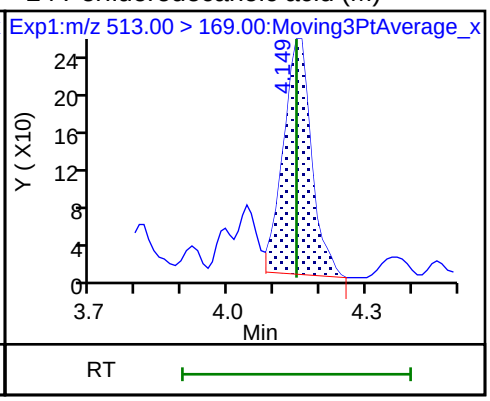
D 23 13C2 PFDA



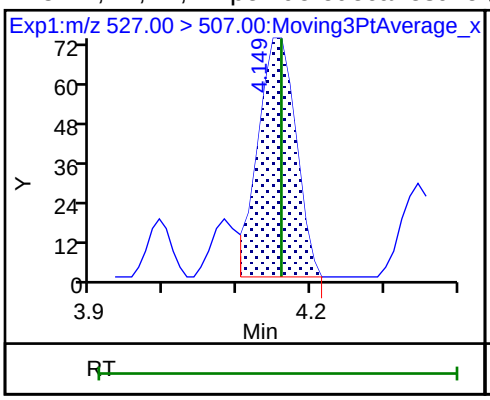
24 Perfluorodecanoic acid (M)



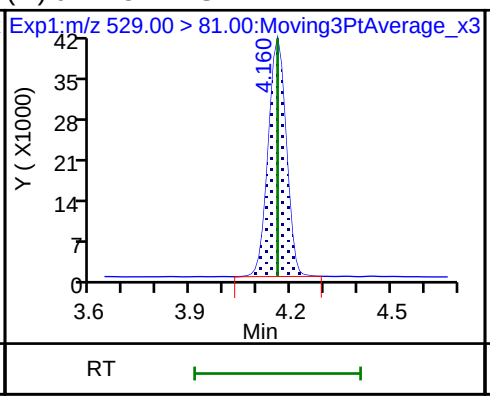
24 Perfluorodecanoic acid (M)



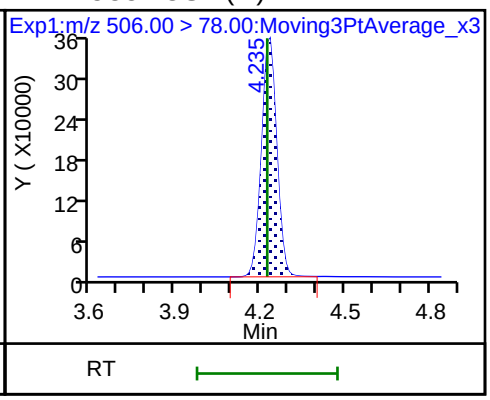
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



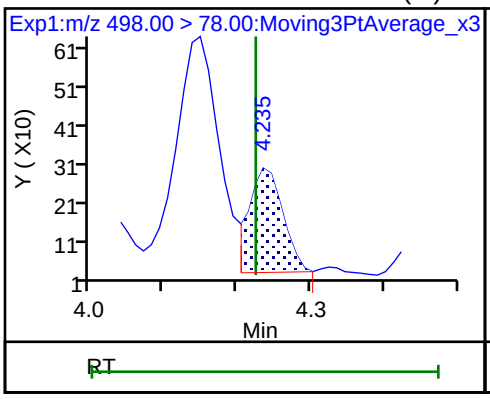
D 26 M2-8:2 FTS



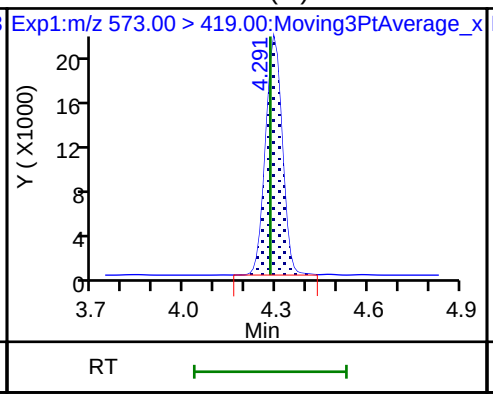
D 21 13C8 FOSA (M)



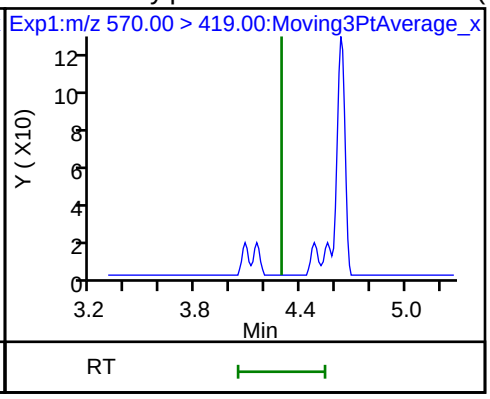
22 Perfluorooctanesulfonamide (M)



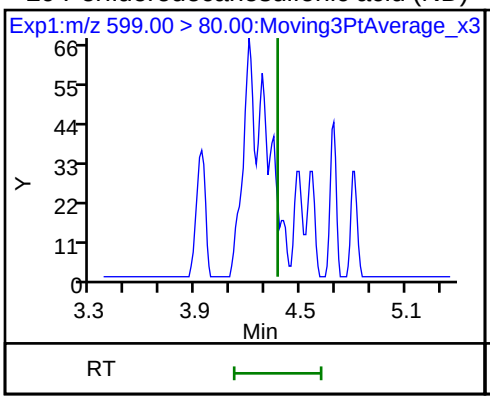
D 27 d3-NMeFOSAA (M)



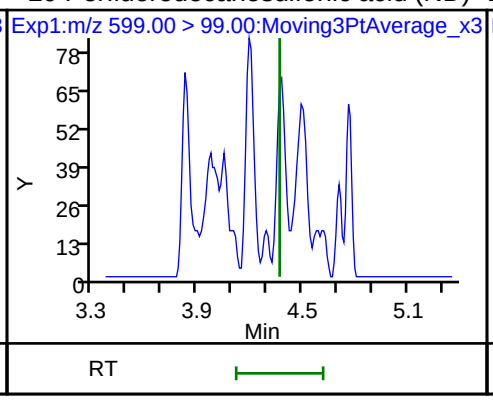
28 N-methylperfluorooctanesulfonami (ND)



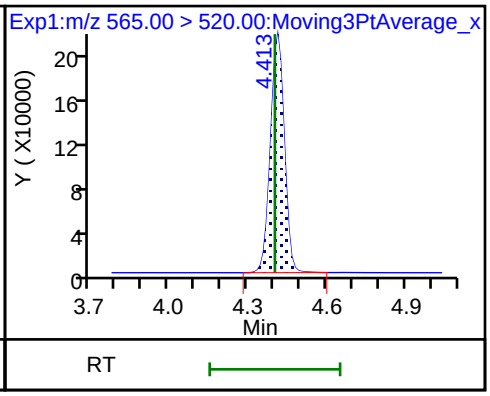
29 Perfluorodecanesulfonic acid (ND)



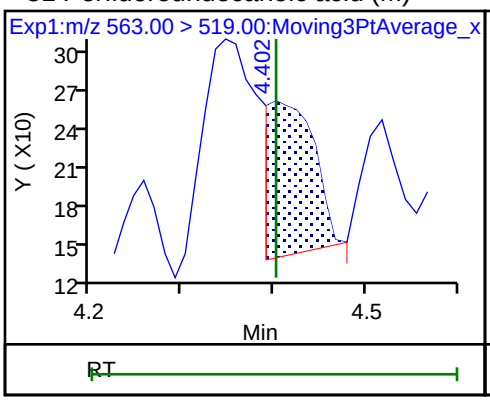
29 Perfluorodecanesulfonic acid (ND)



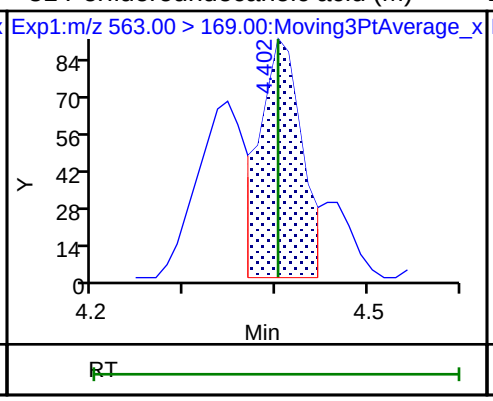
D 30 13C2 PFUnA



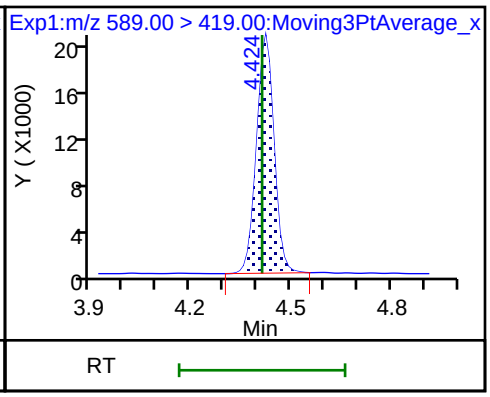
31 Perfluoroundecanoic acid (M)



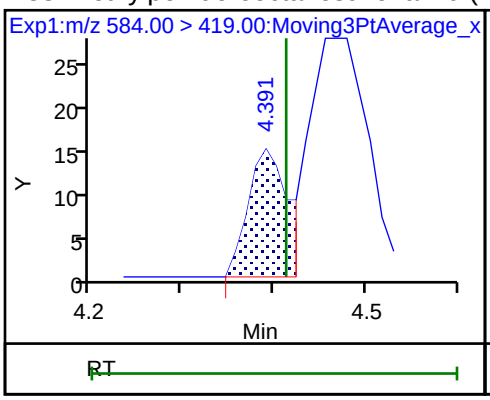
31 Perfluoroundecanoic acid (M)



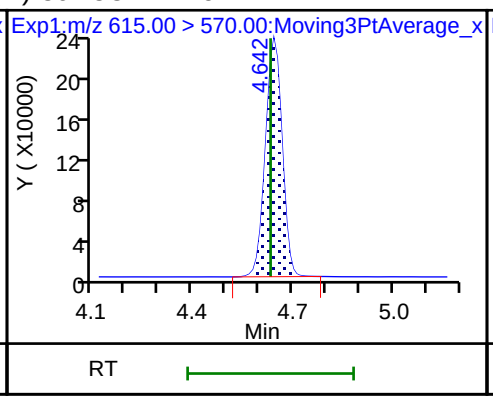
D 32 d5-NEtFOSAA



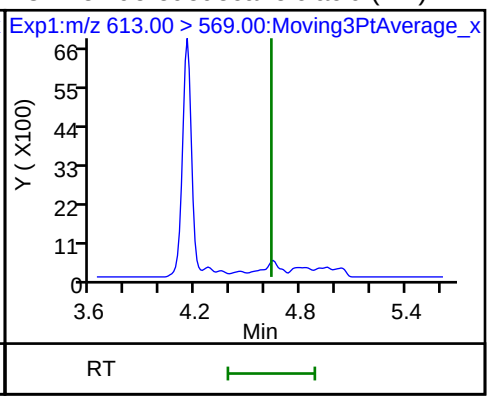
33 N-ethylperfluorooctanesulfonamid (ND)



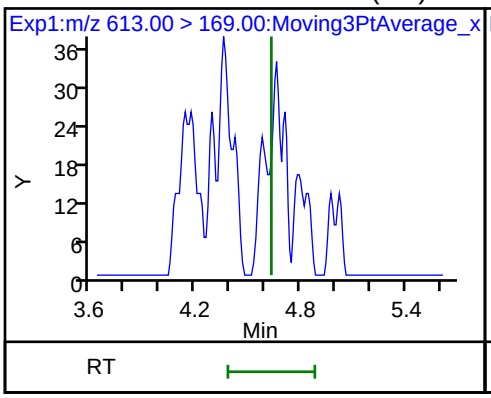
D 36 13C2 PFDoA



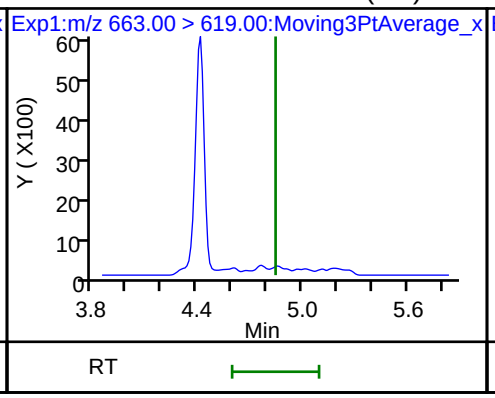
37 Perfluorododecanoic acid (ND)



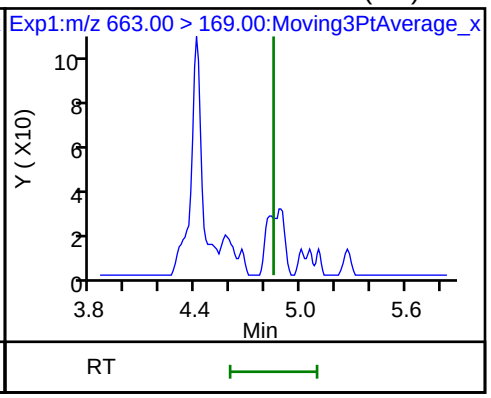
37 Perfluorododecanoic acid (ND)



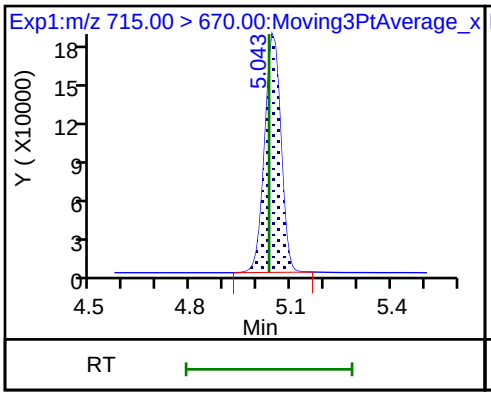
41 Perfluorotridecanoic acid (ND)



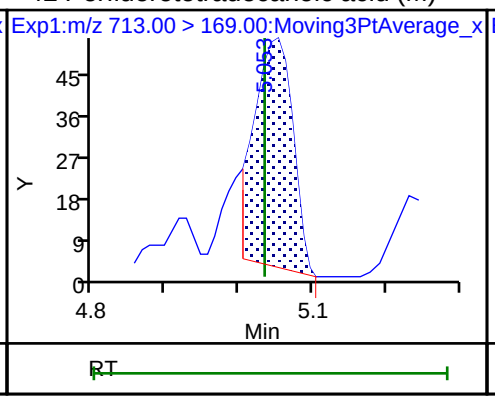
41 Perfluorotridecanoic acid (ND)



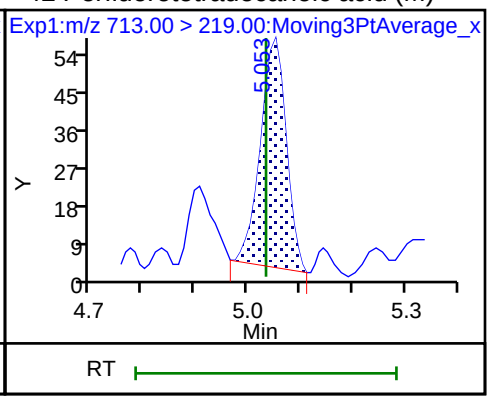
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

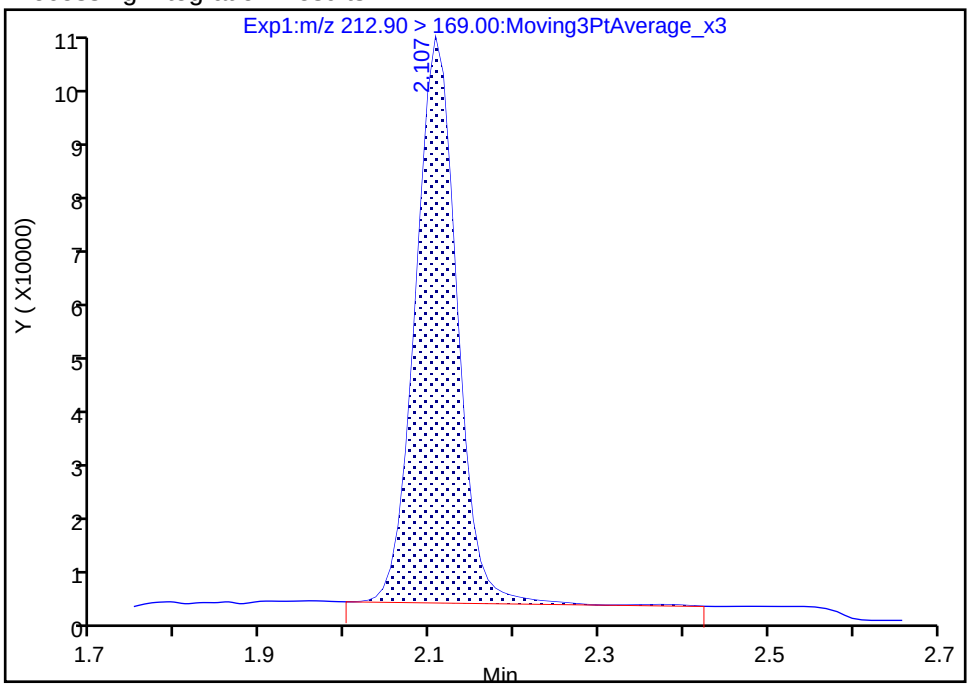
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

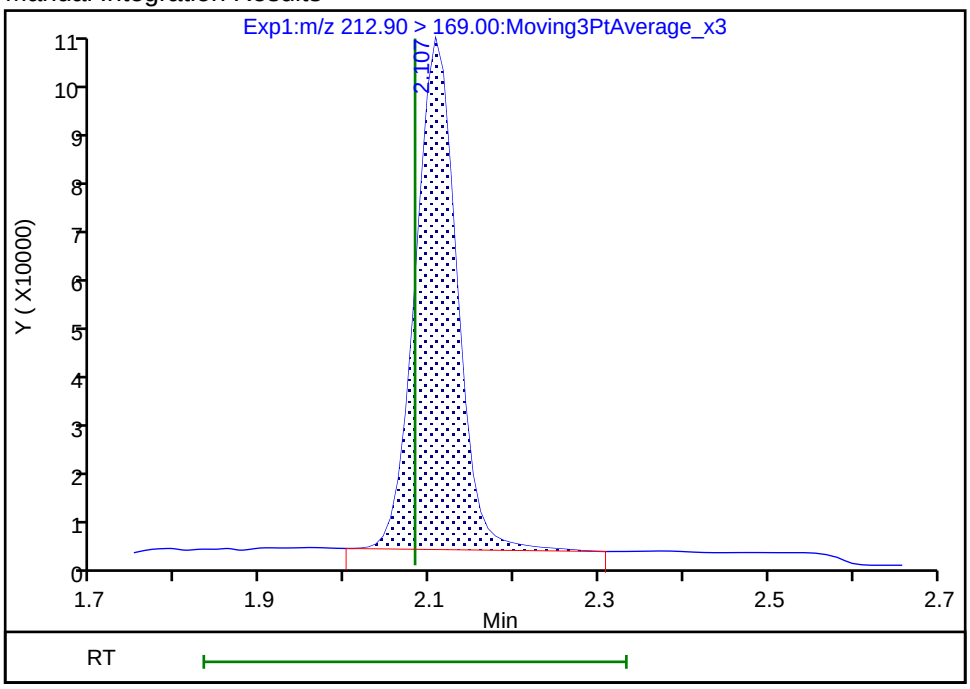
Processing Integration Results

RT: 2.11
Area: 340101
Amount: 0.297388
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 339212
Amount: 0.296611
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:11:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

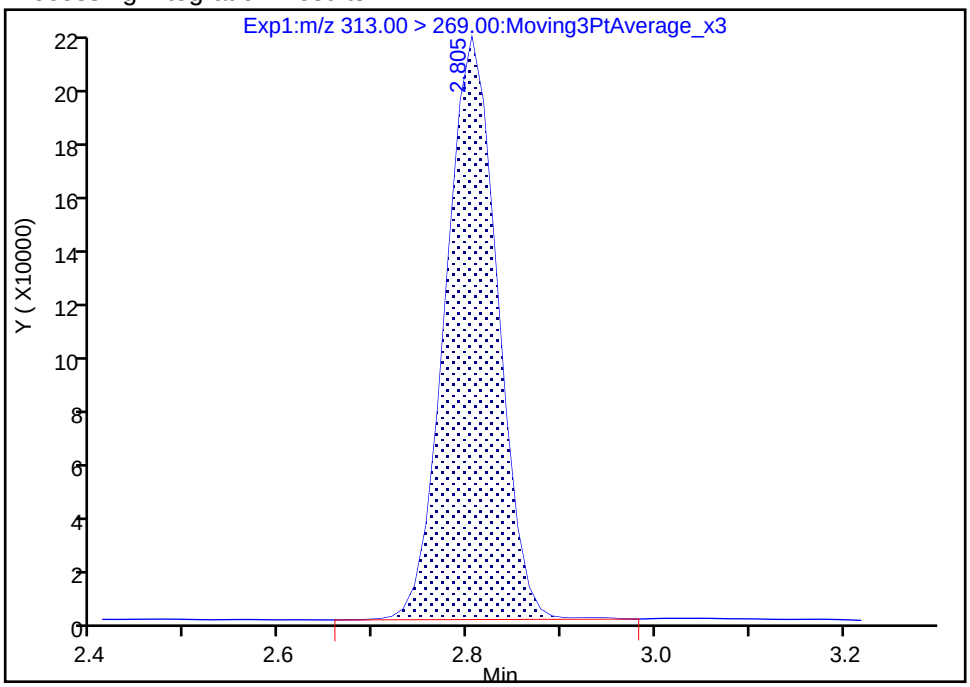
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

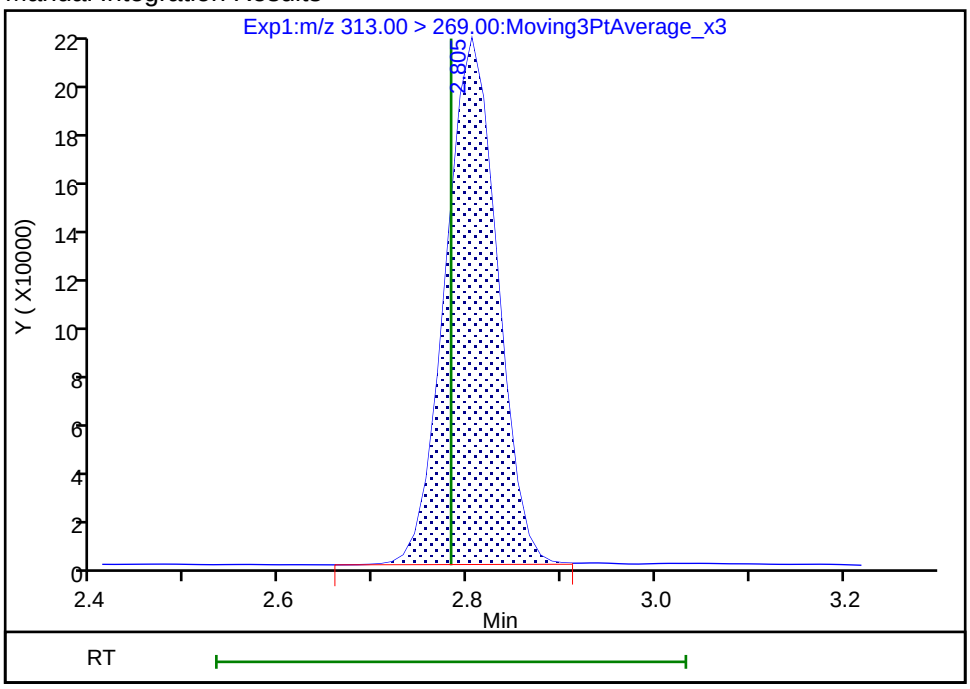
Processing Integration Results

RT: 2.80
Area: 826676
Amount: 0.708474
Amount Units: ng/ml



Manual Integration Results

RT: 2.80
Area: 825363
Amount: 0.707348
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:11:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

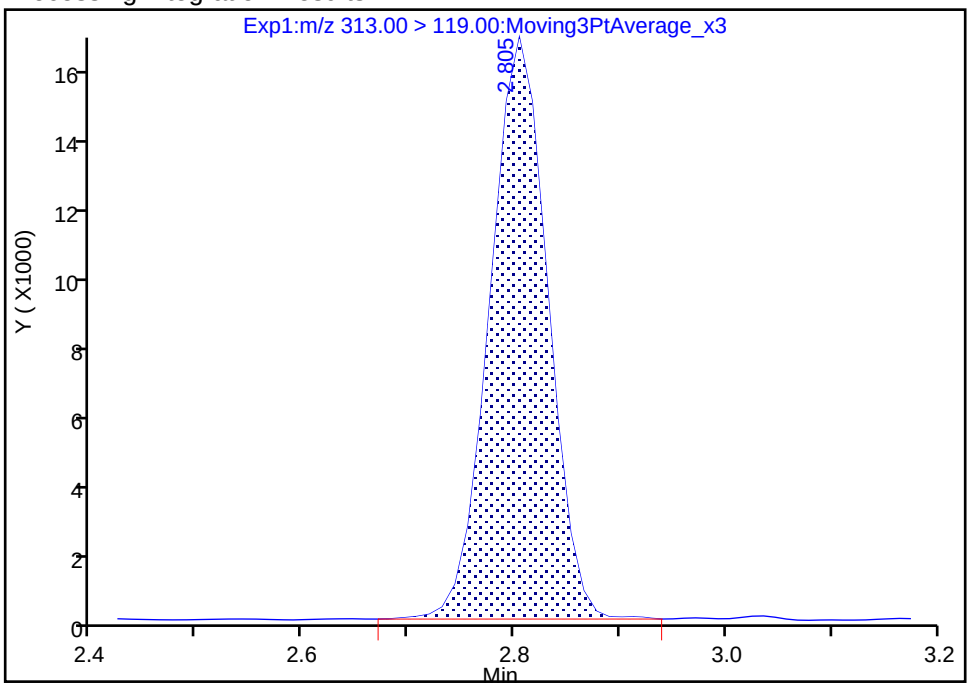
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

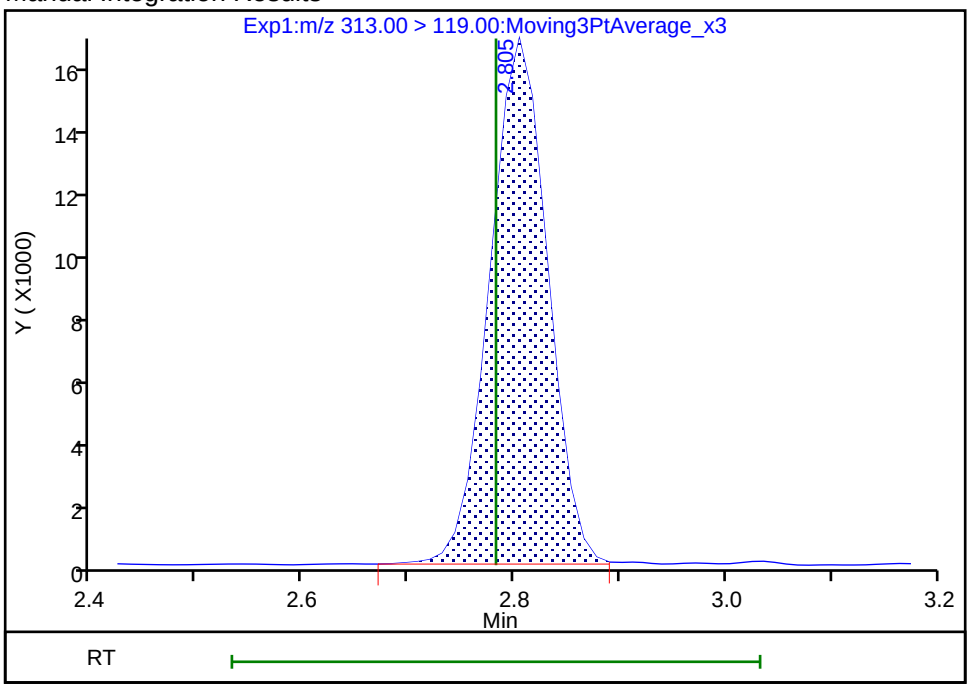
Processing Integration Results

RT: 2.80
Area: 62871
Amount: 0.708474
Amount Units: ng/ml



Manual Integration Results

RT: 2.80
Area: 62746
Amount: 0.707348
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:11:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

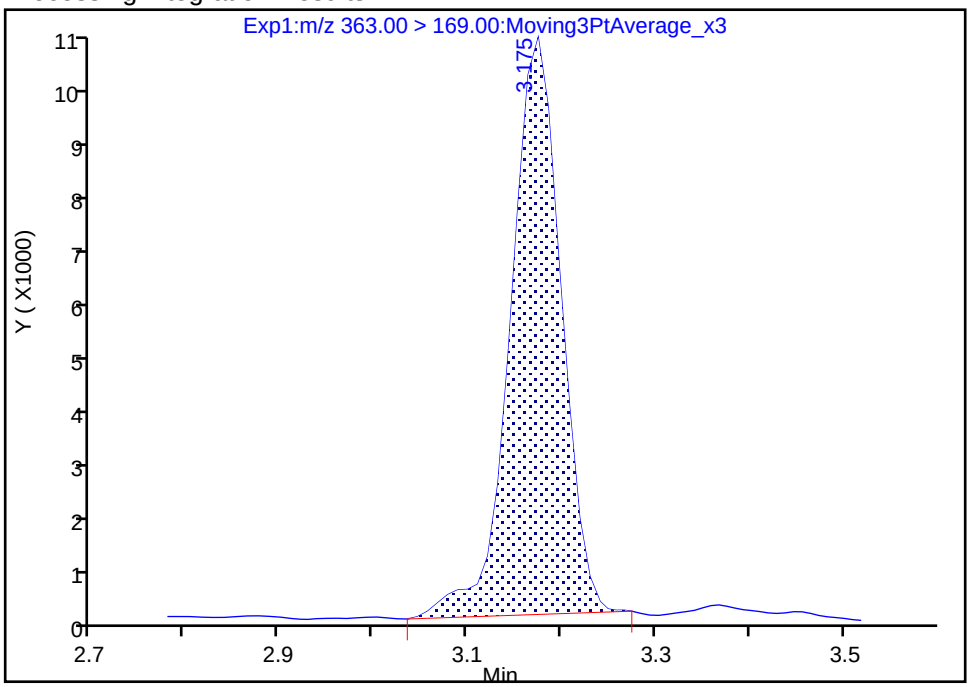
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

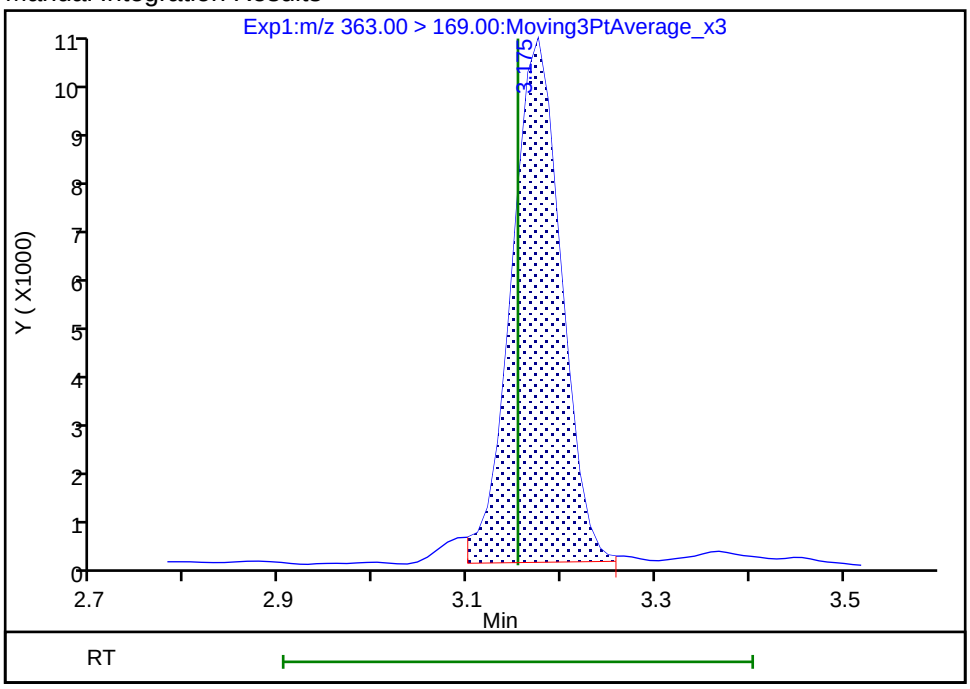
Processing Integration Results

RT: 3.18
Area: 37679
Amount: 0.120798
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 37143
Amount: 0.118034
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:12:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

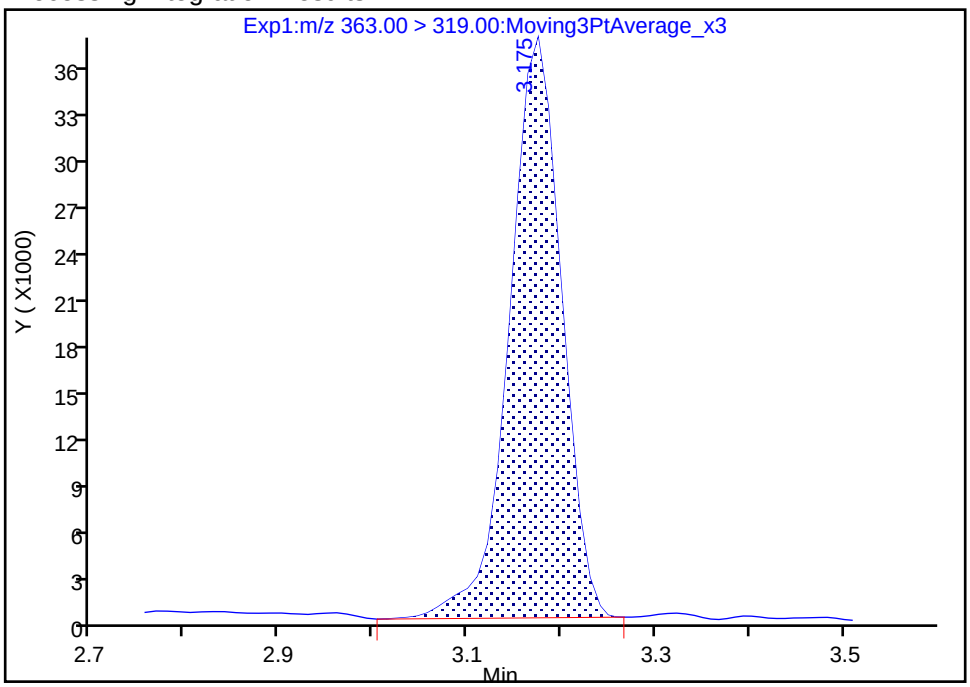
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

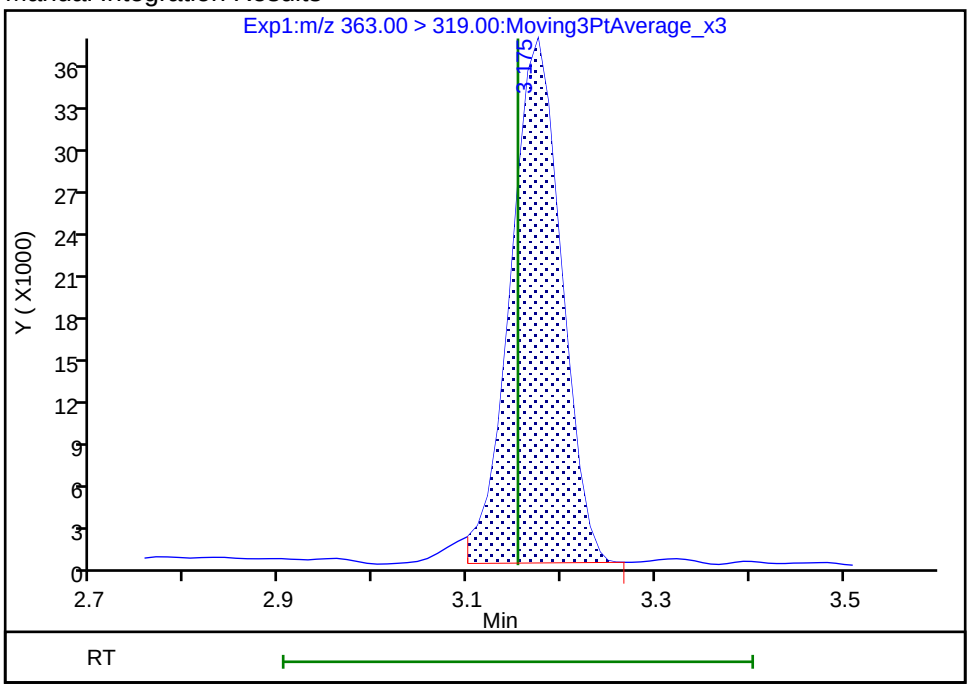
Processing Integration Results

RT: 3.18
Area: 141972
Amount: 0.120798
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 138724
Amount: 0.118034
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:12:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

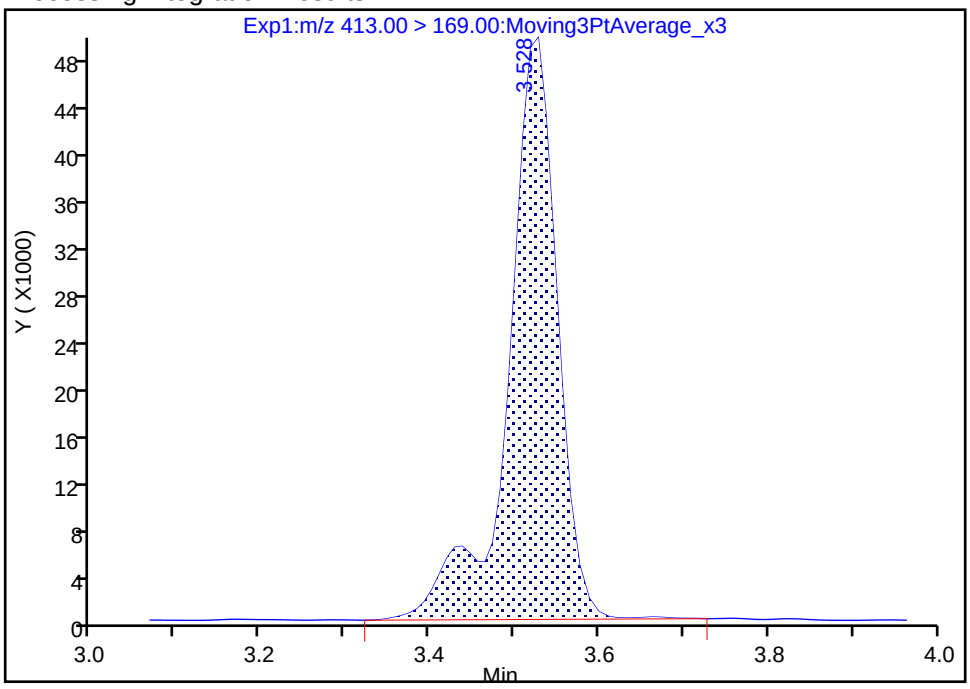
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d		
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10
Client ID:	MW-86-27		
Operator ID:	lc812tech	ALS Bottle#:	14 Worklist Smp#: 17
Injection Vol:	20.0 ul	Dil. 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

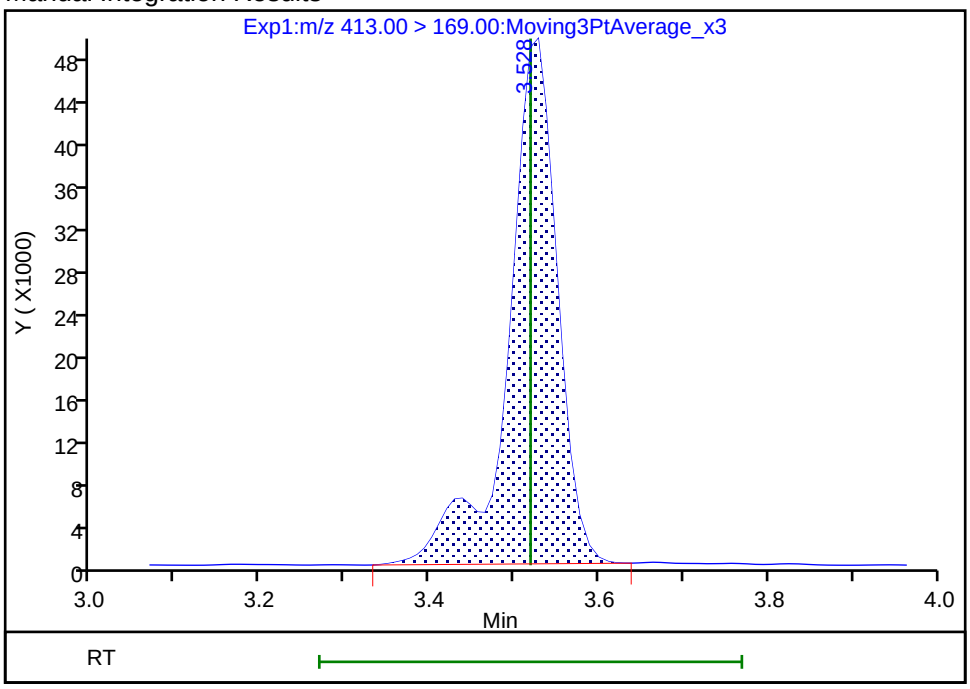
Processing Integration Results

RT: 3.53
Area: 200686
Amount: 0.389674
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 199469
Amount: 0.389674
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:12:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

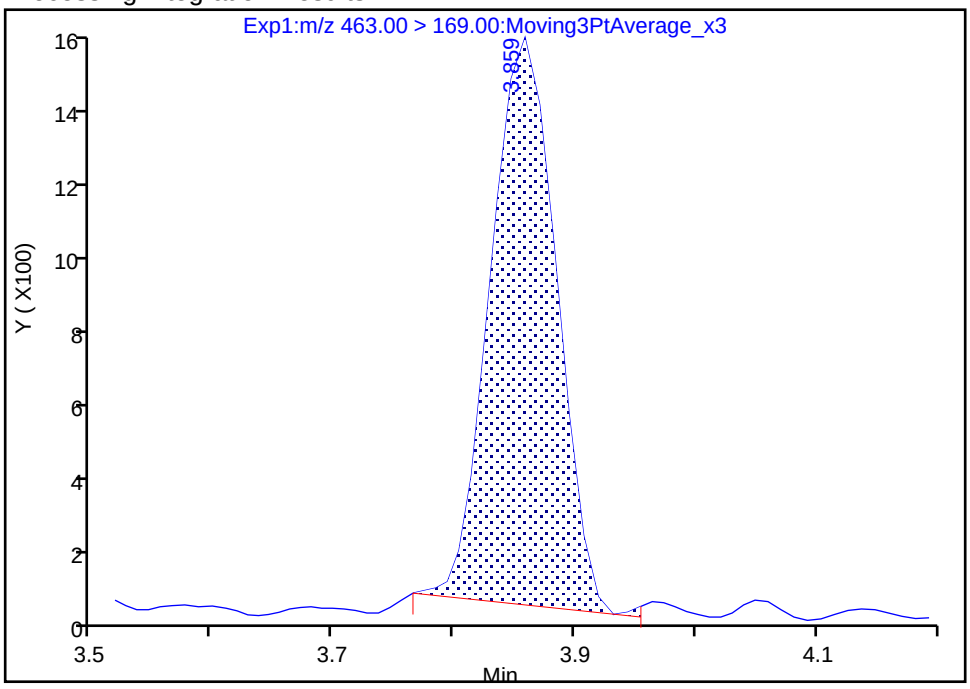
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

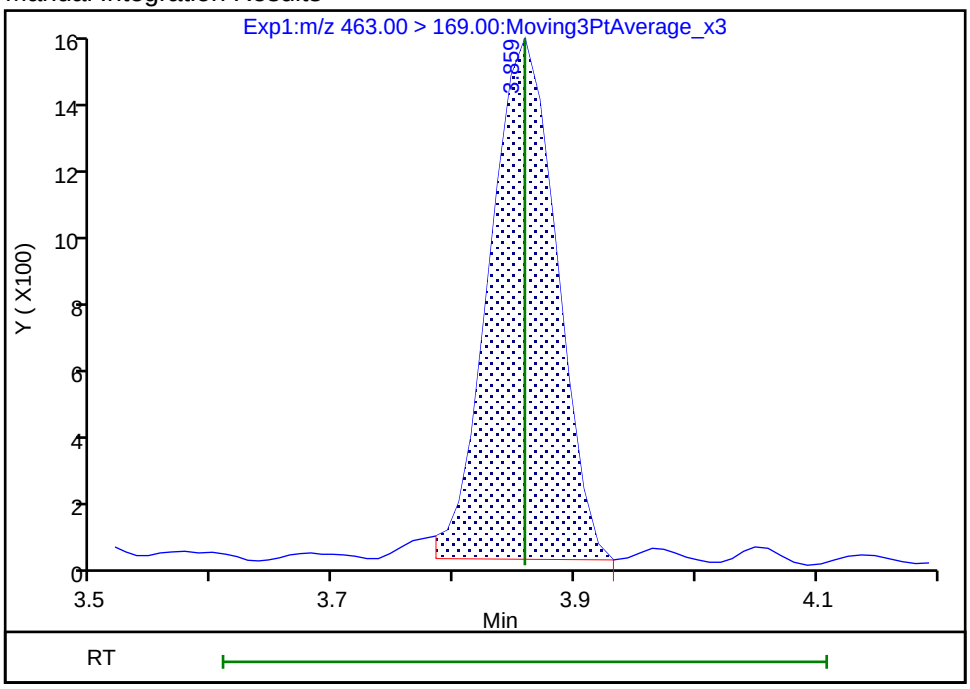
Processing Integration Results

RT: 3.86
Area: 5869
Amount: 0.041542
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 6056
Amount: 0.043080
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:13:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

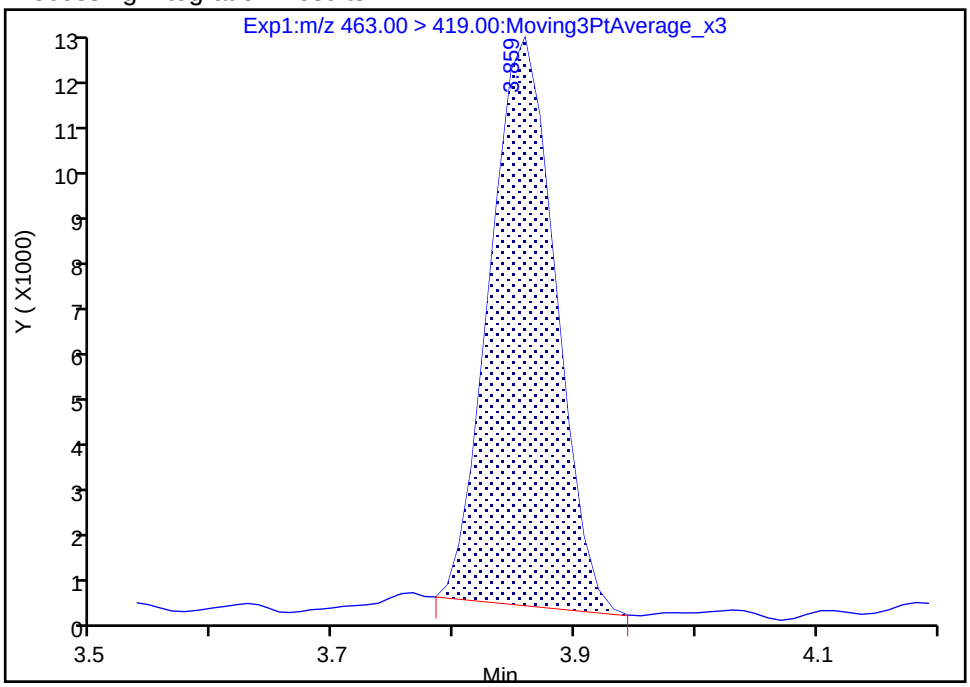
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Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

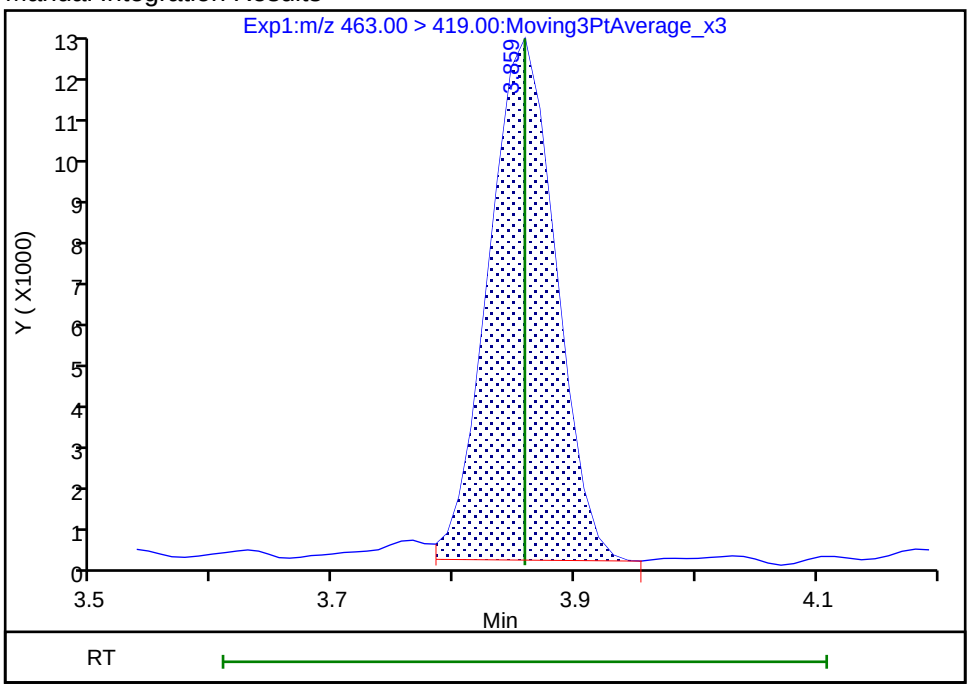
Processing Integration Results

RT: 3.86
Area: 42623
Amount: 0.041542
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 44201
Amount: 0.043080
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:13:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

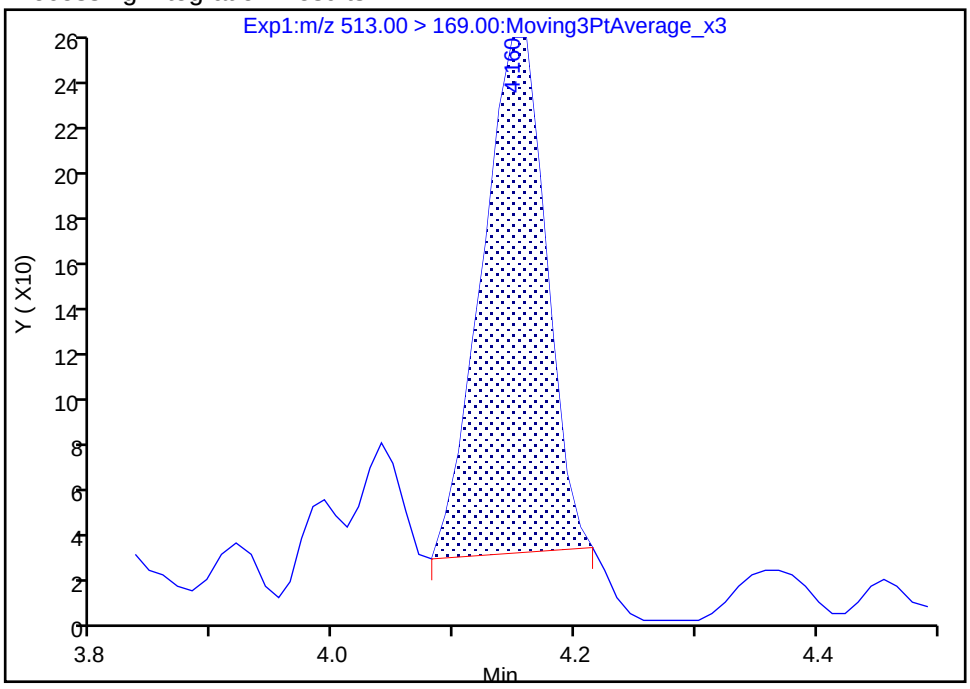
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

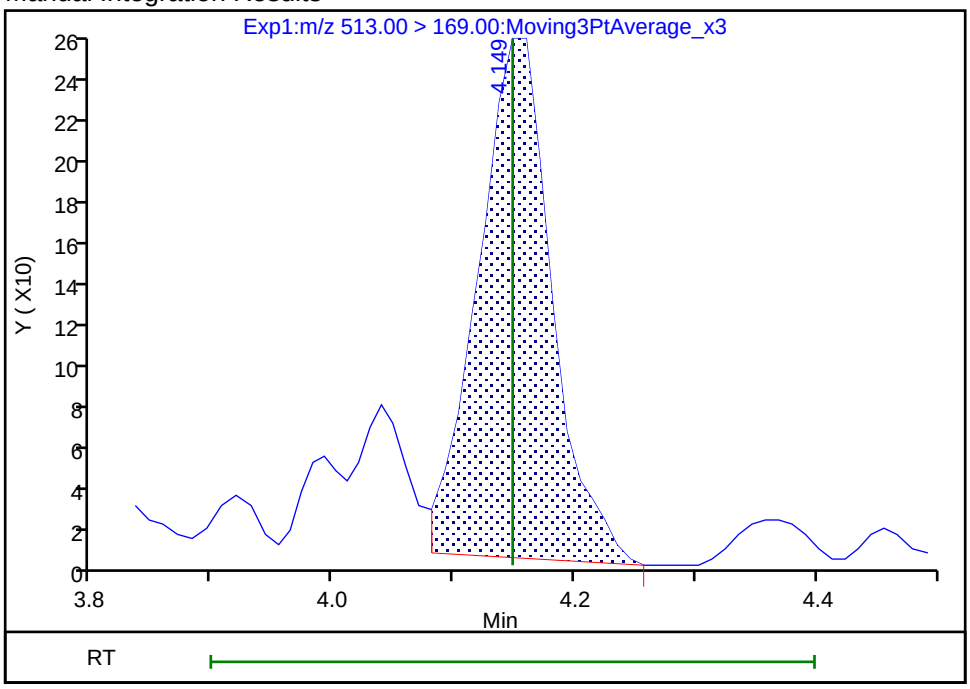
Processing Integration Results

RT: 4.16
Area: 836
Amount: 0.004496
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 1072
Amount: 0.005527
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:13:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

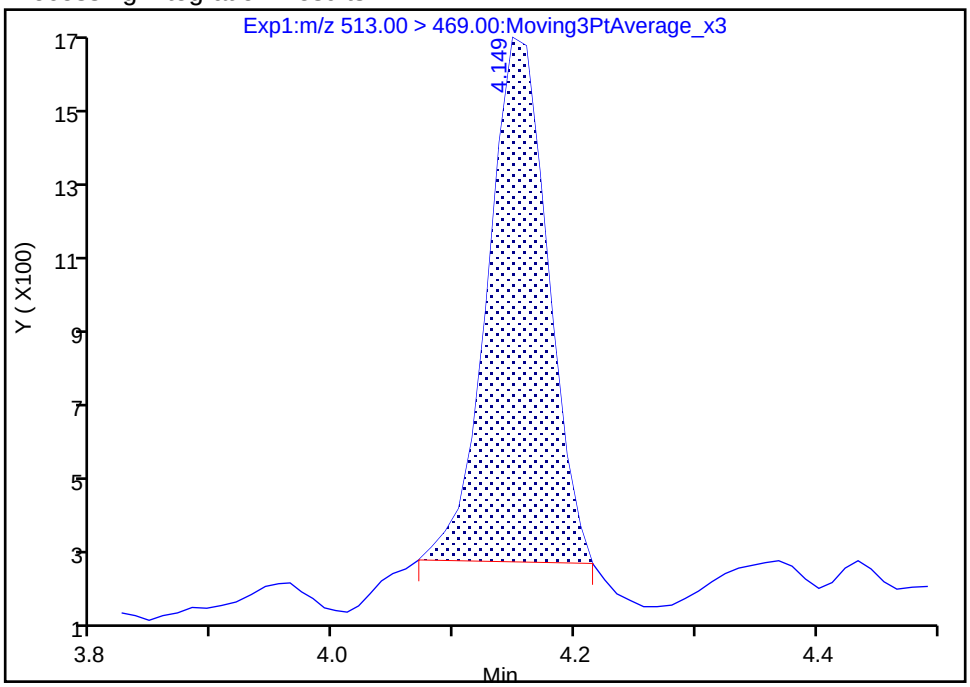
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

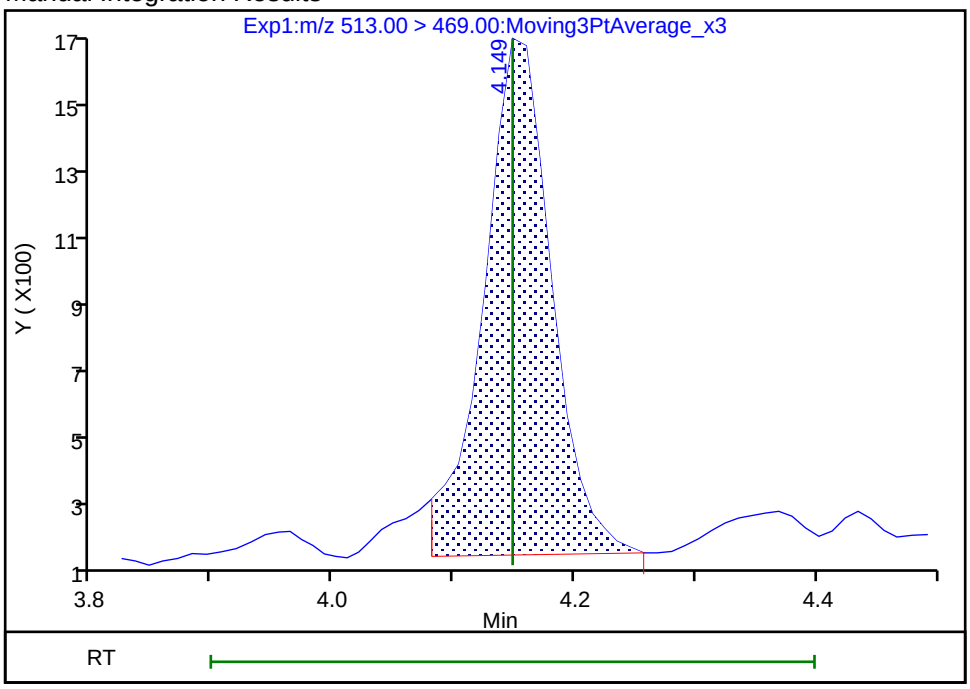
Processing Integration Results

RT: 4.15
Area: 4656
Amount: 0.004496
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 5723
Amount: 0.005527
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:14:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

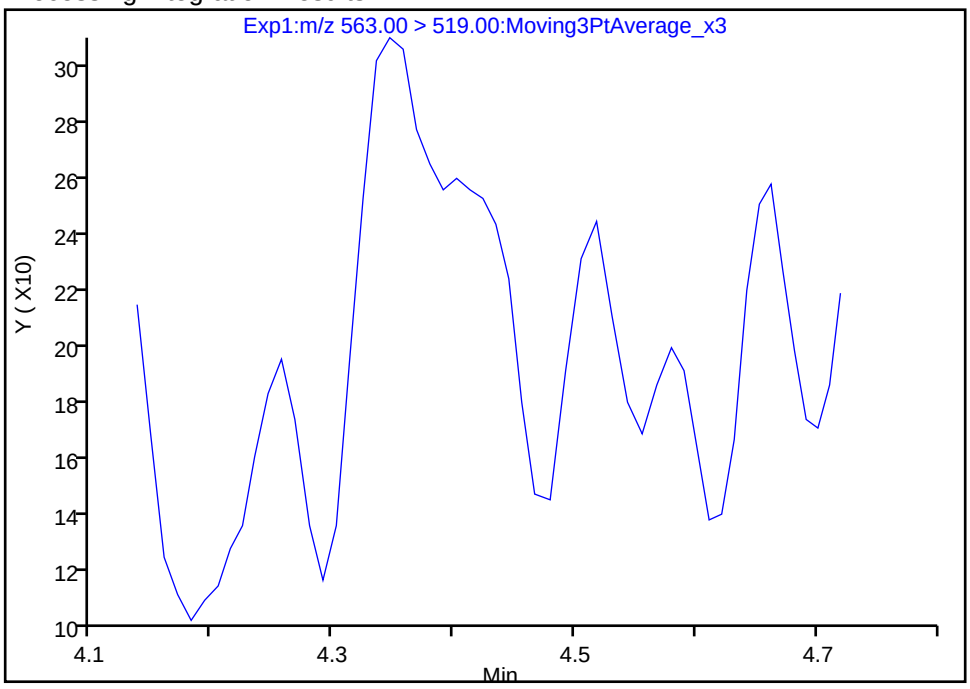
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

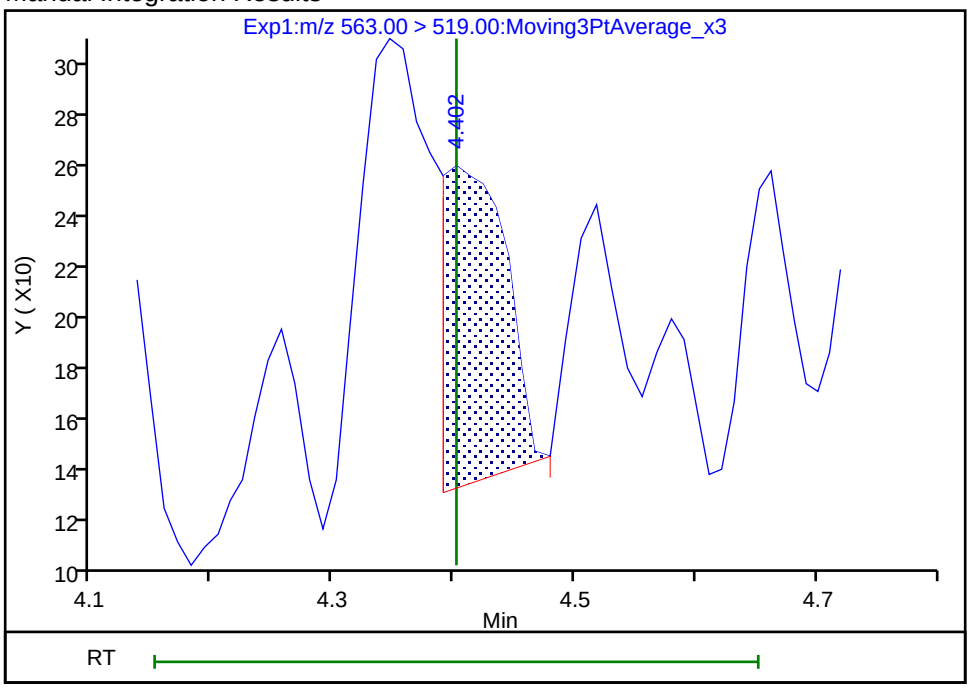
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 420
Amount: 0.000680
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:14:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

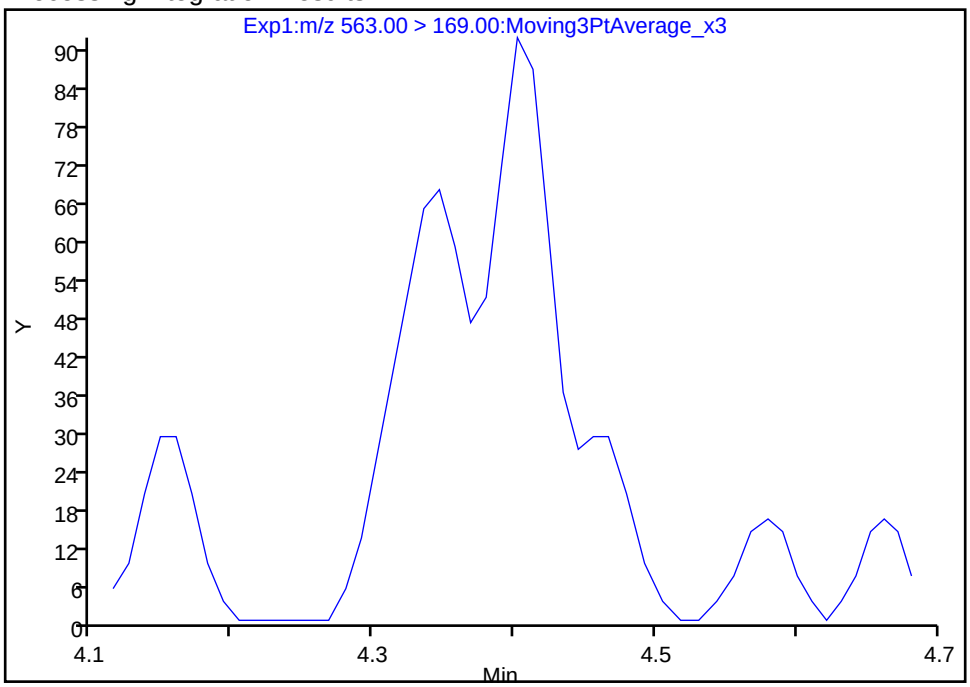
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

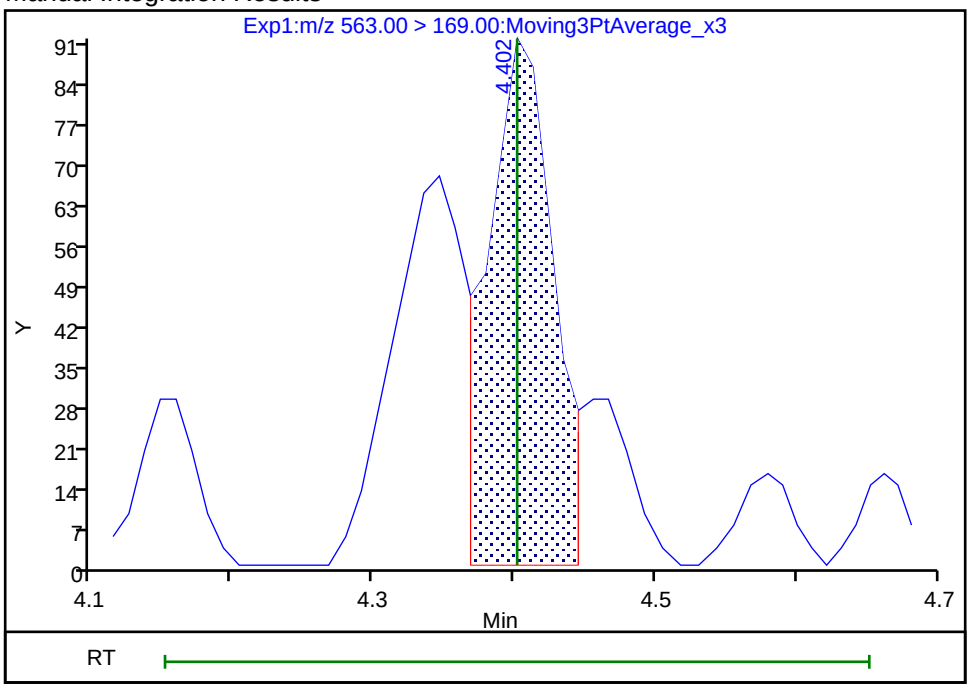
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 286
Amount: 0.000680
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:14:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

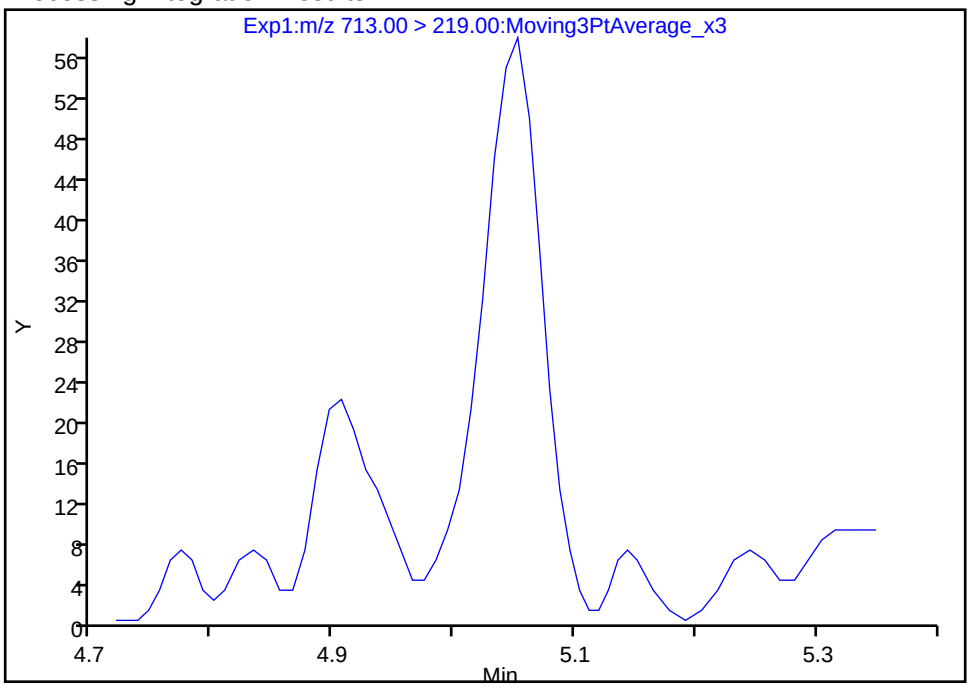
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

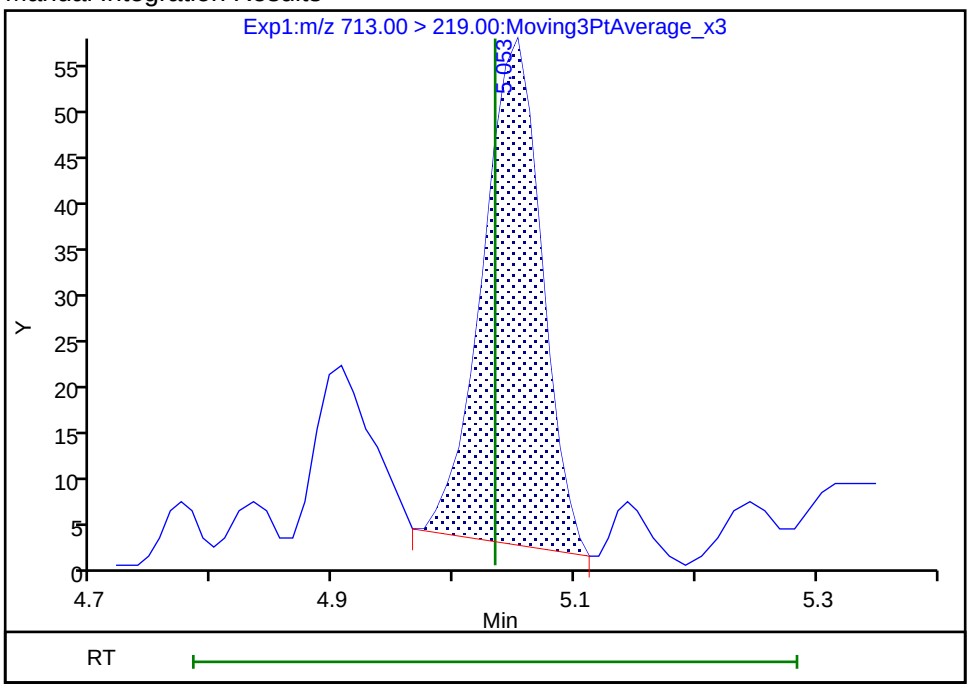
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.05
Area: 189
Amount: 0.002103
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:15:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

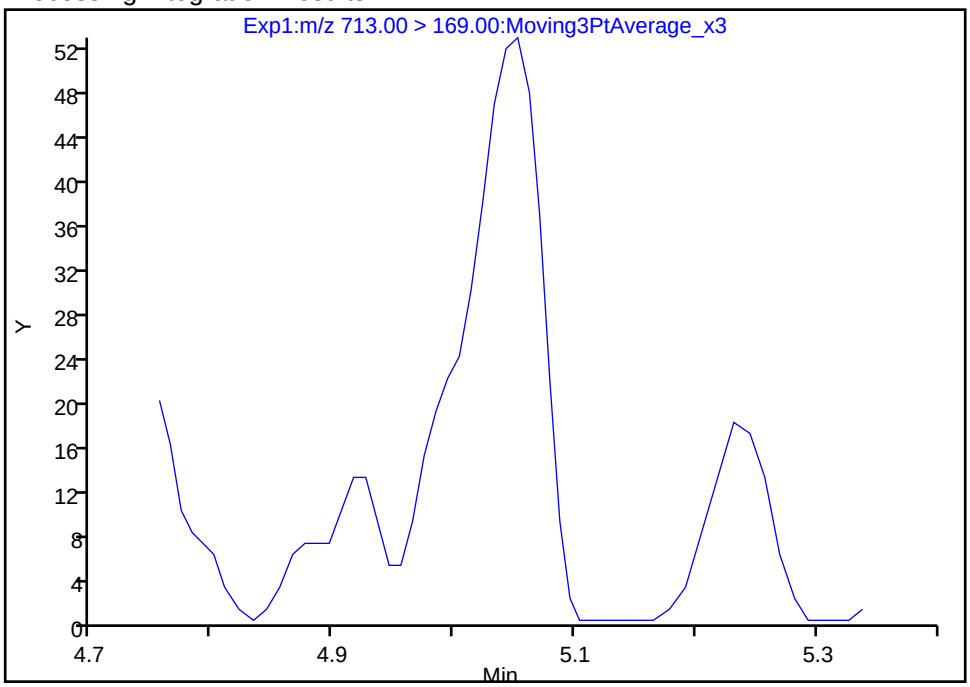
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

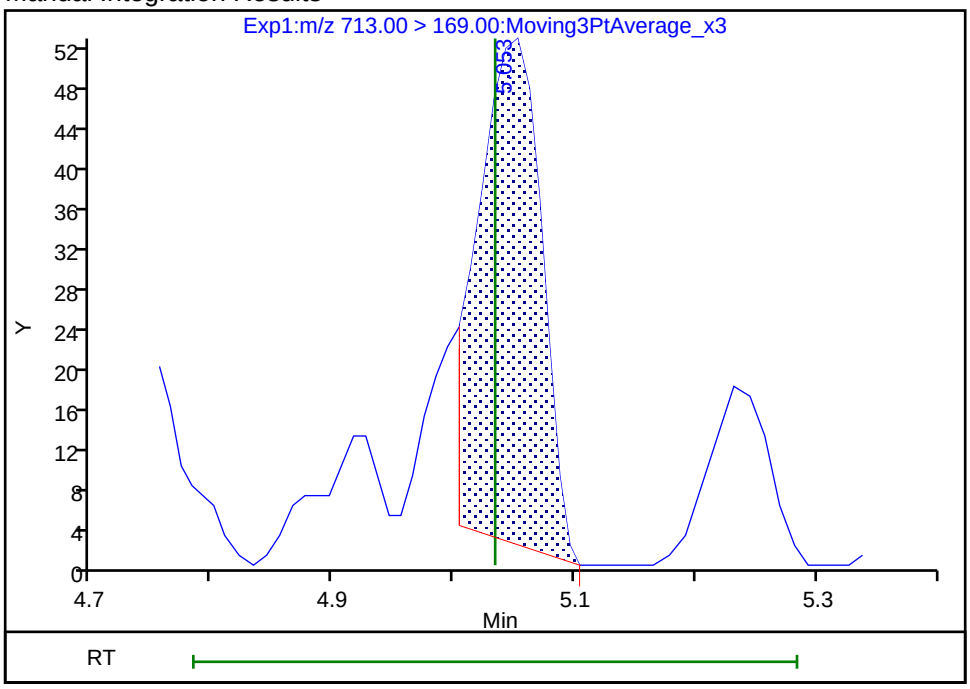
Processing Integration Results

Not Detected
Expected RT: 5.03



Manual Integration Results

RT: 5.05
Area: 184
Amount: 0.002103
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:15:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

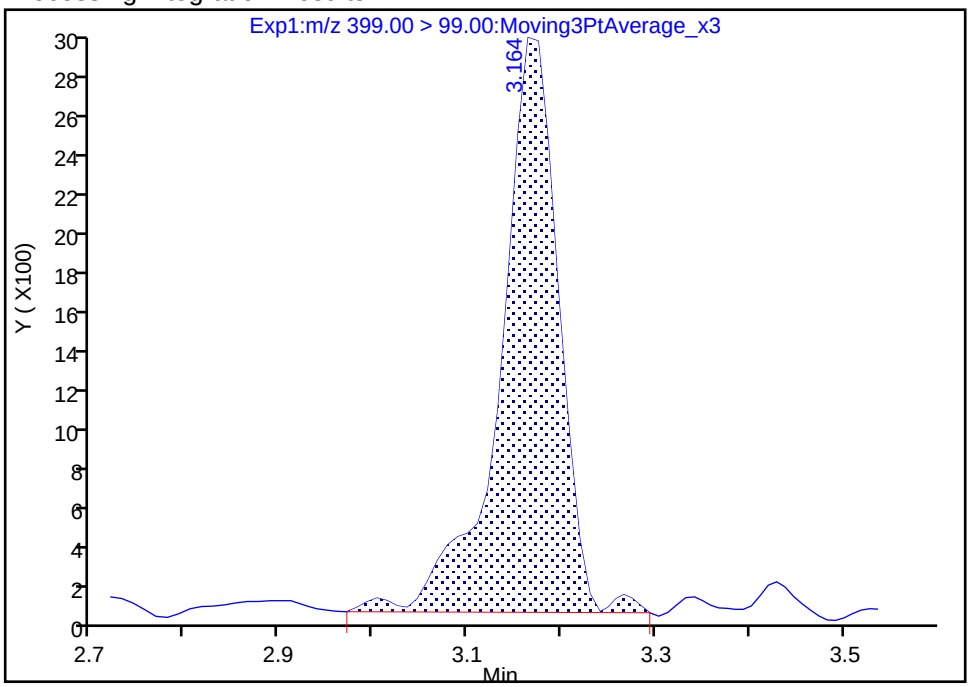
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

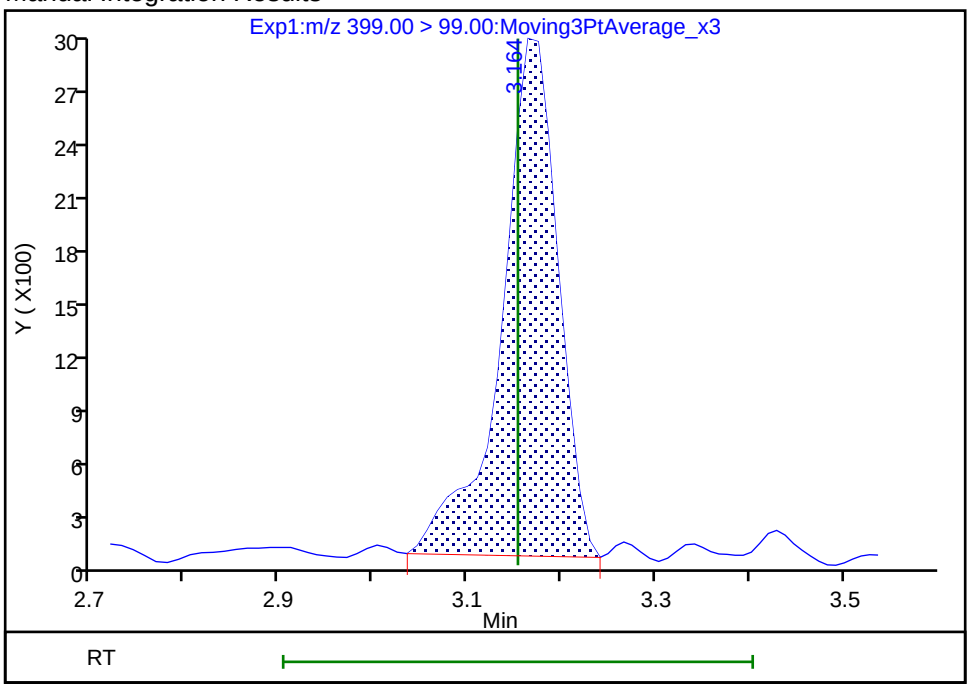
Processing Integration Results

RT: 3.16
Area: 12410
Amount: 0.049097
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 11944
Amount: 0.047935
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:11:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

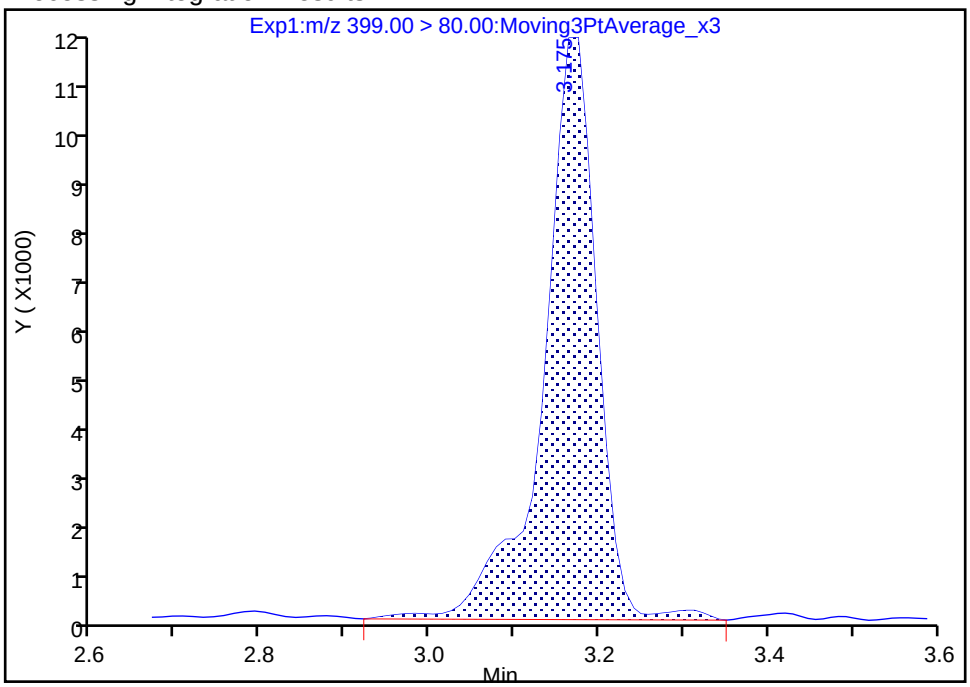
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

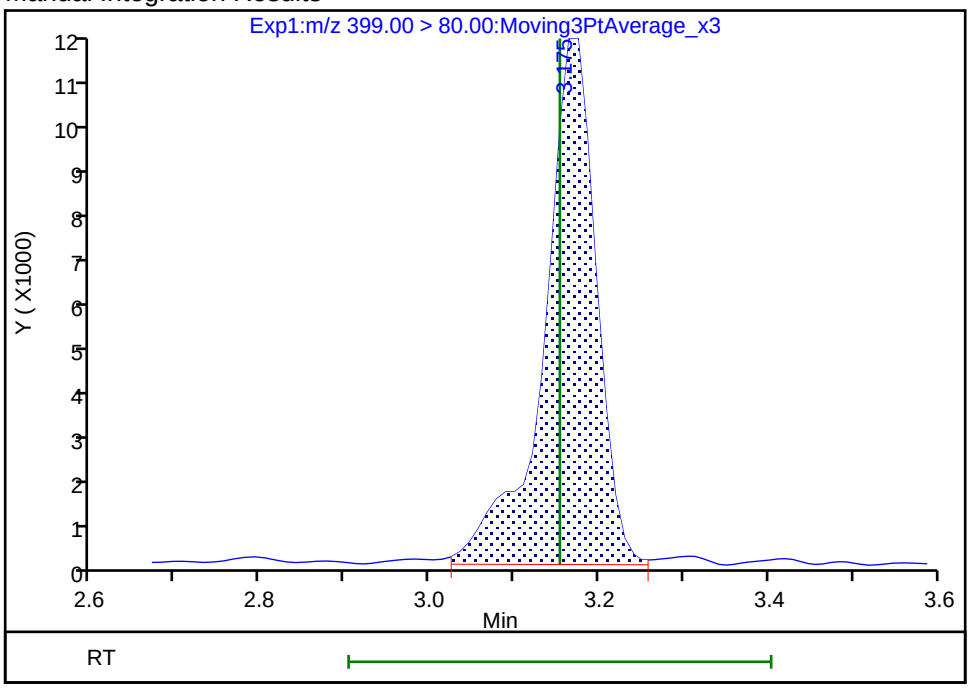
Processing Integration Results

RT: 3.18
Area: 50786
Amount: 0.049097
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 49584
Amount: 0.047935
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:31:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

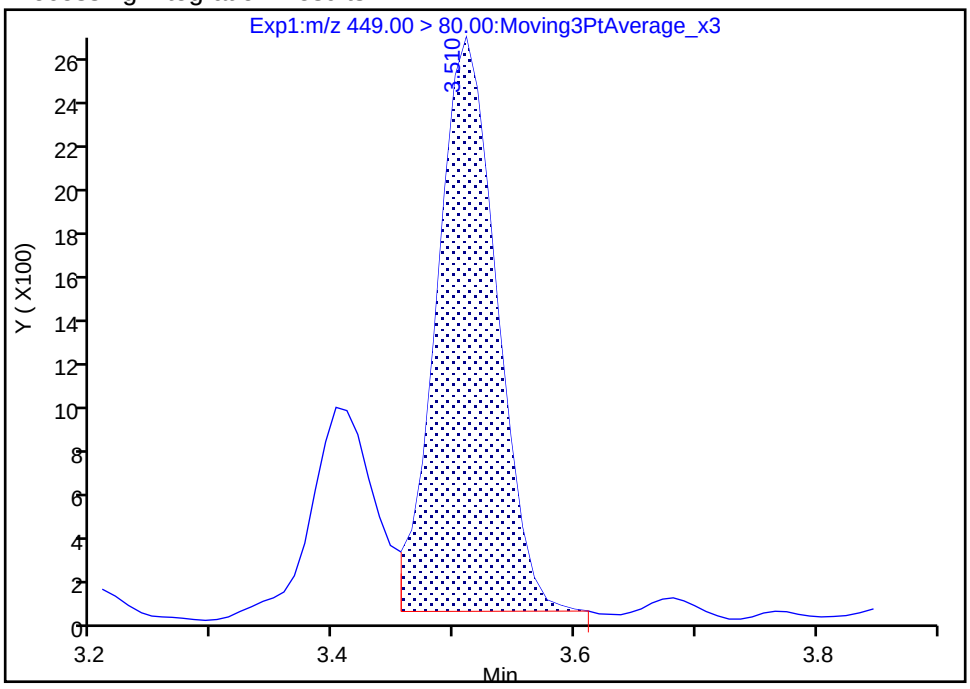
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

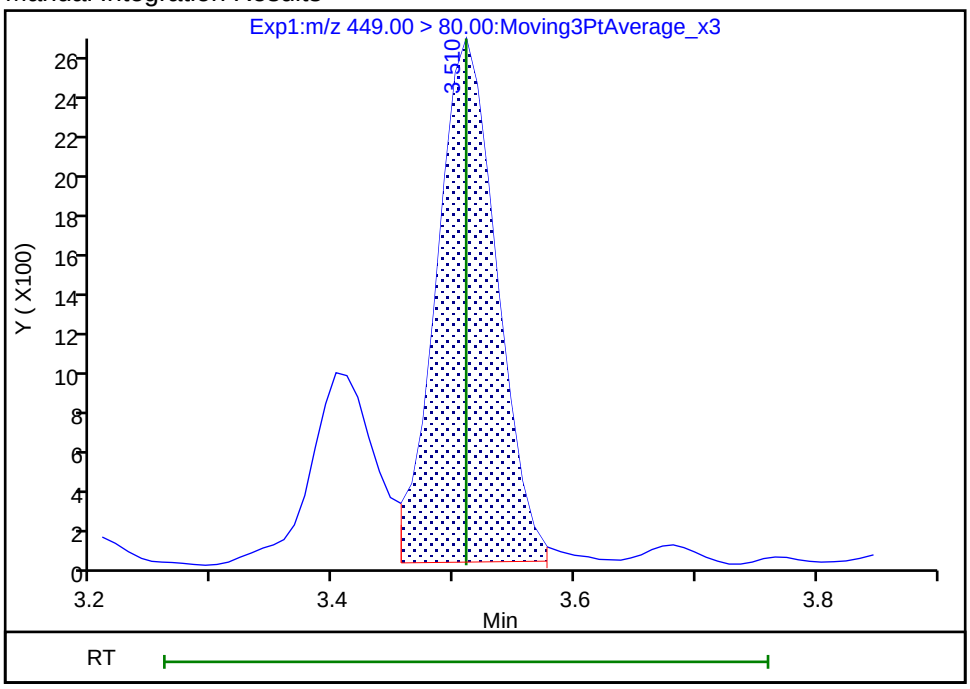
Processing Integration Results

RT: 3.51
Area: 9081
Amount: 0.011806
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 9224
Amount: 0.011992
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:12:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

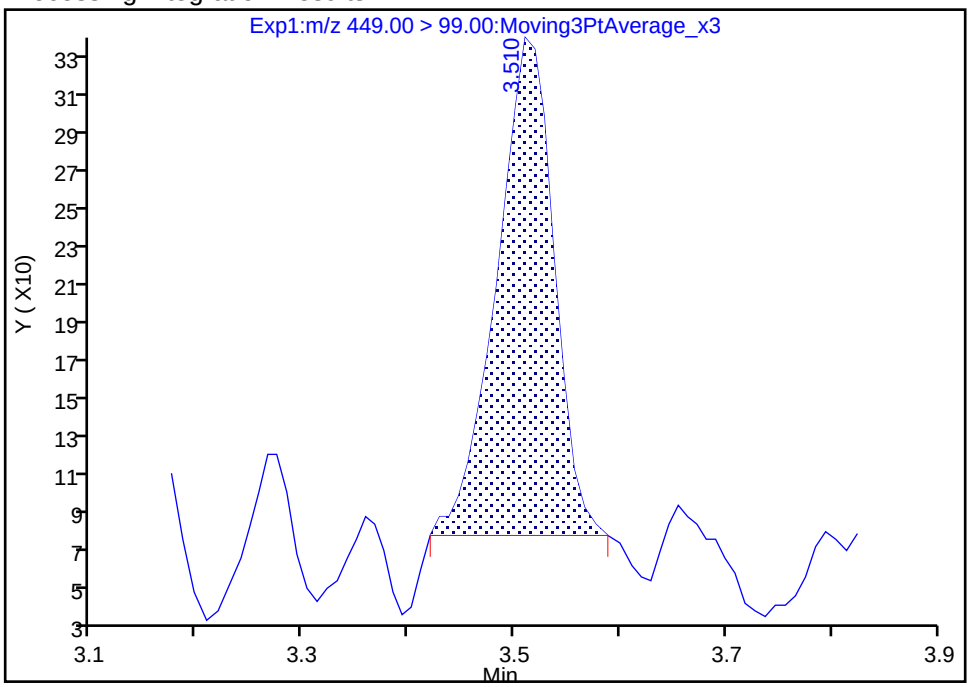
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

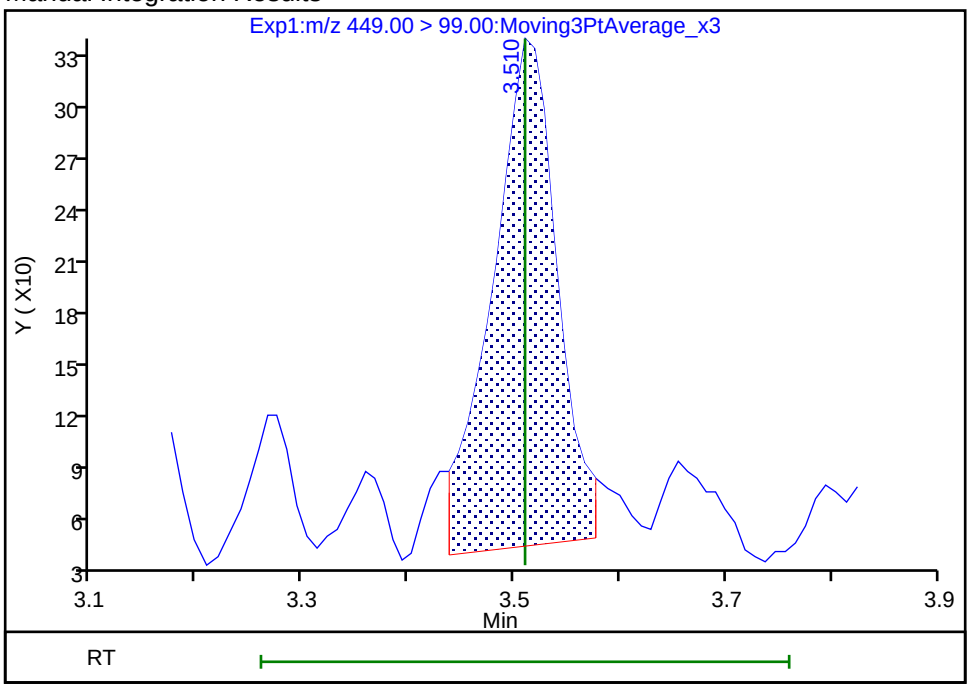
Processing Integration Results

RT: 3.51
Area: 991
Amount: 0.011806
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 1264
Amount: 0.011992
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:12:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

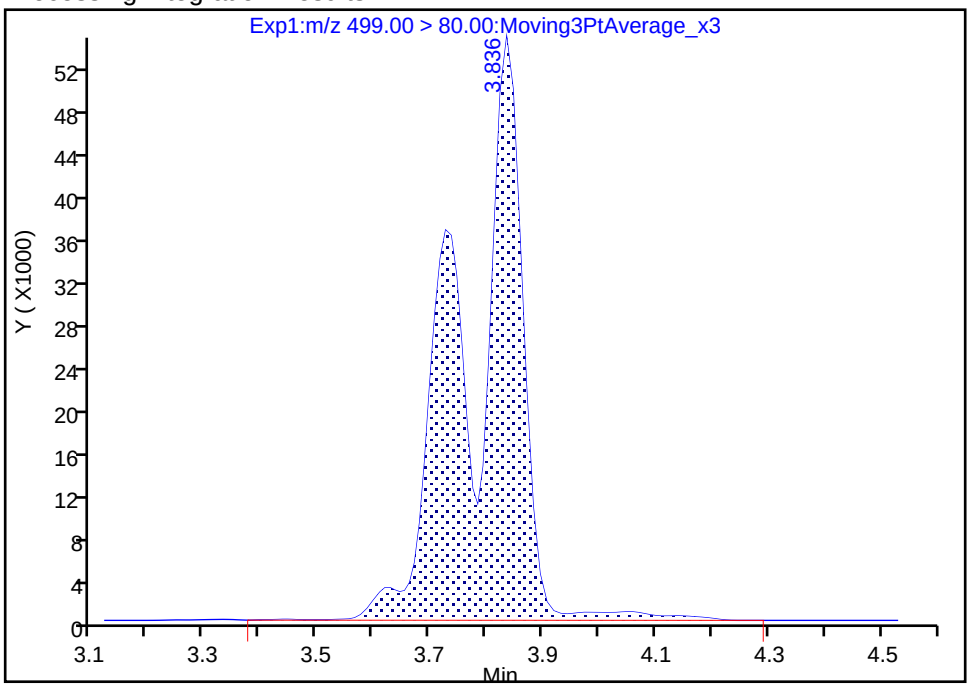
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

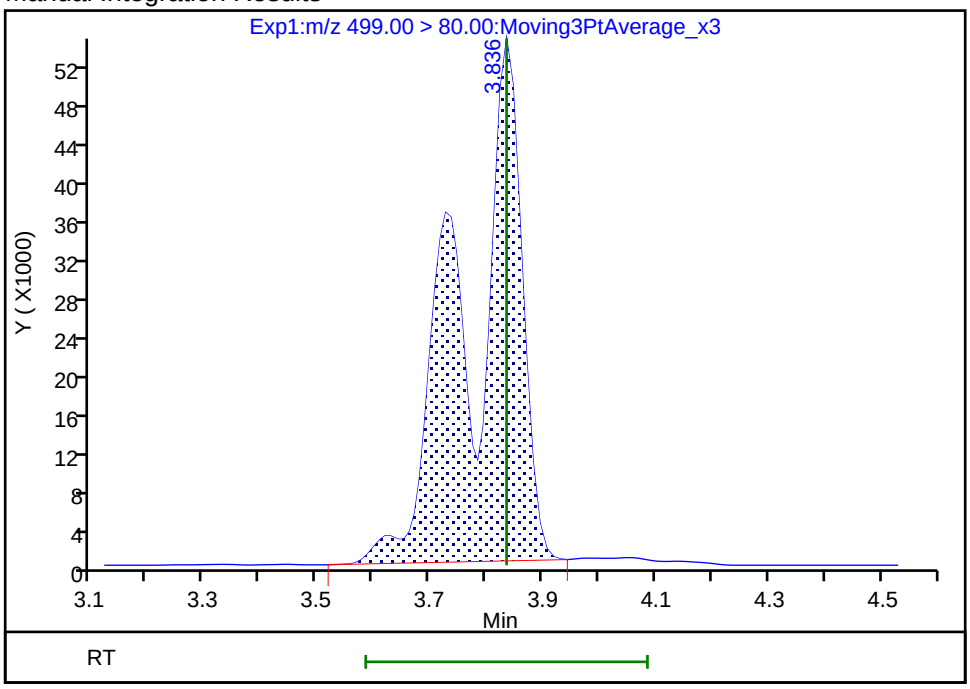
Processing Integration Results

RT: 3.84
Area: 389974
Amount: 0.563346
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 372991
Amount: 0.538812
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:12:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

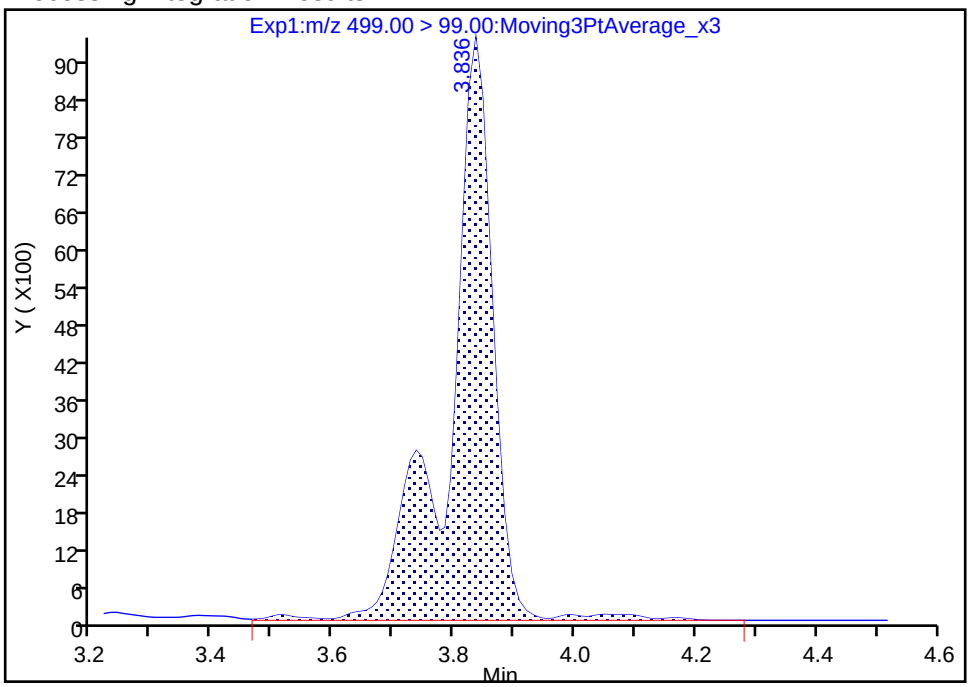
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

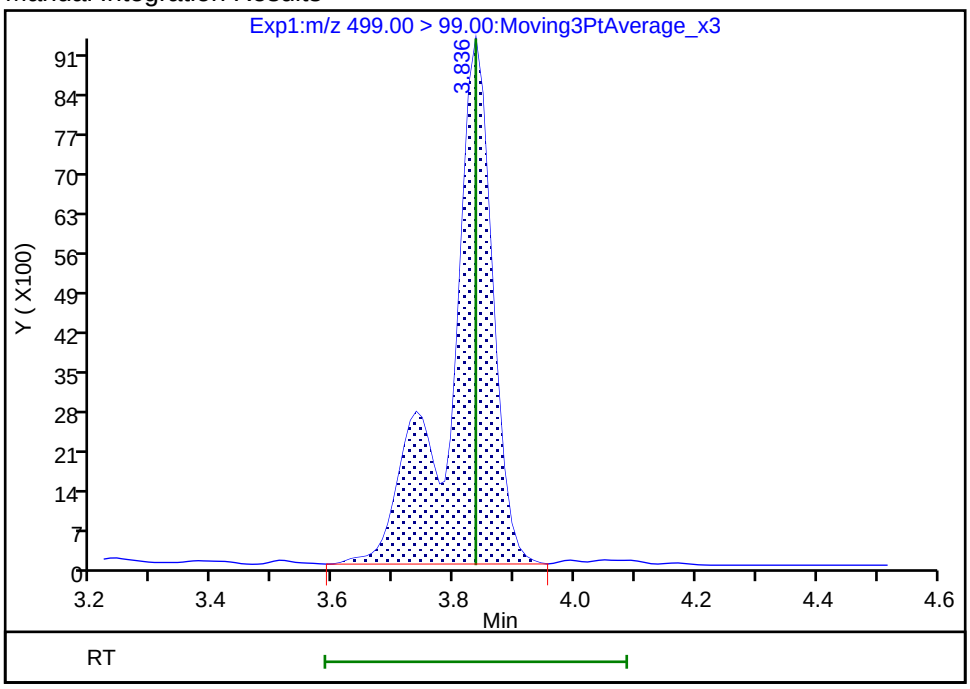
Processing Integration Results

RT: 3.84
Area: 48291
Amount: 0.563346
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 46638
Amount: 0.538812
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:32:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

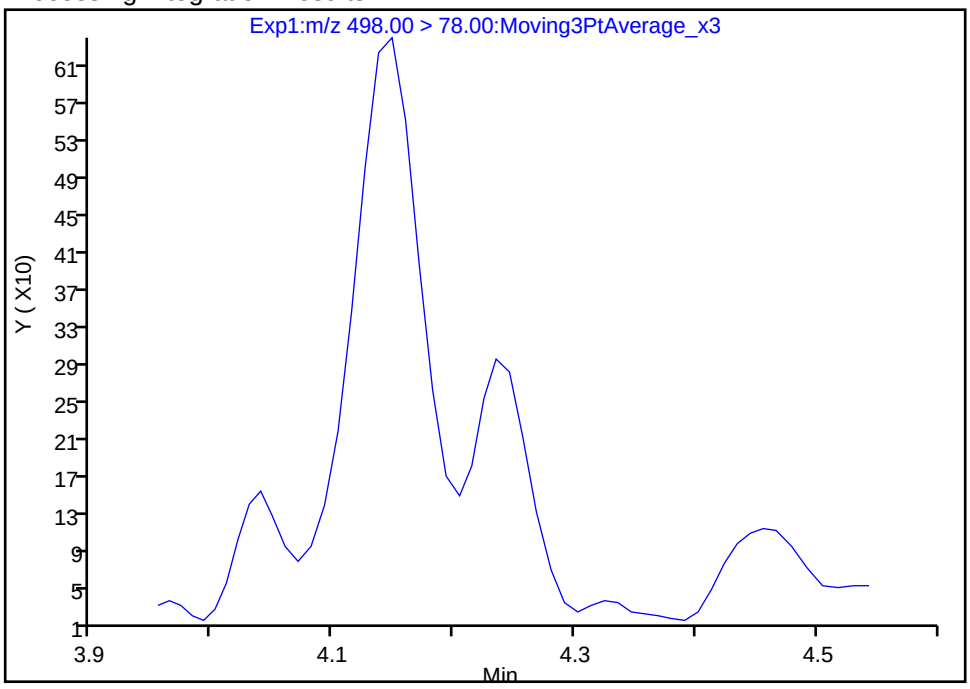
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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

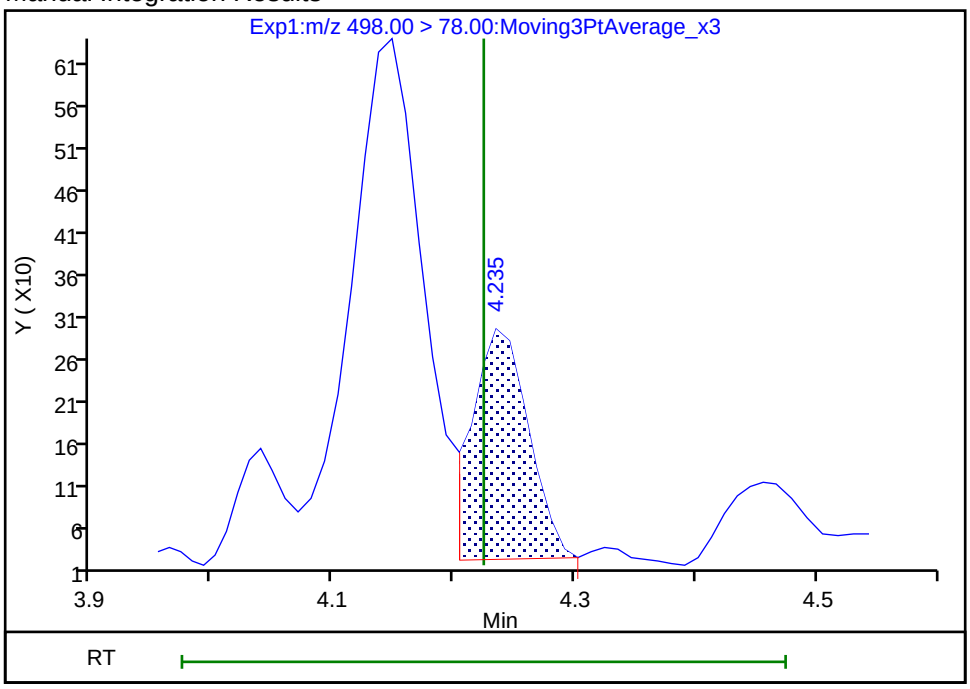
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 859
Amount: 0.000839
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:14:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

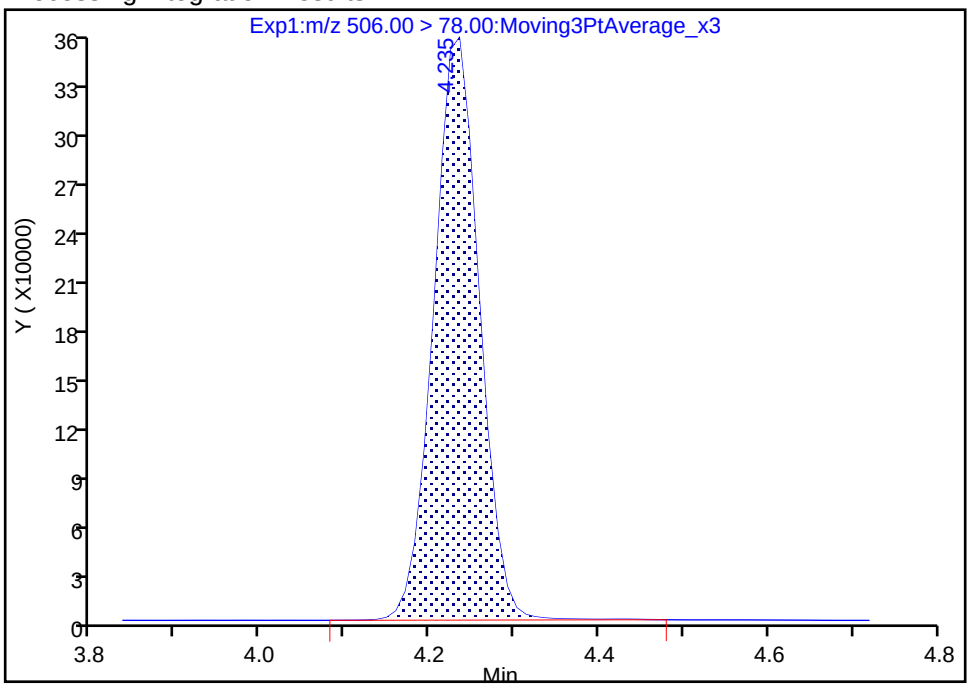
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

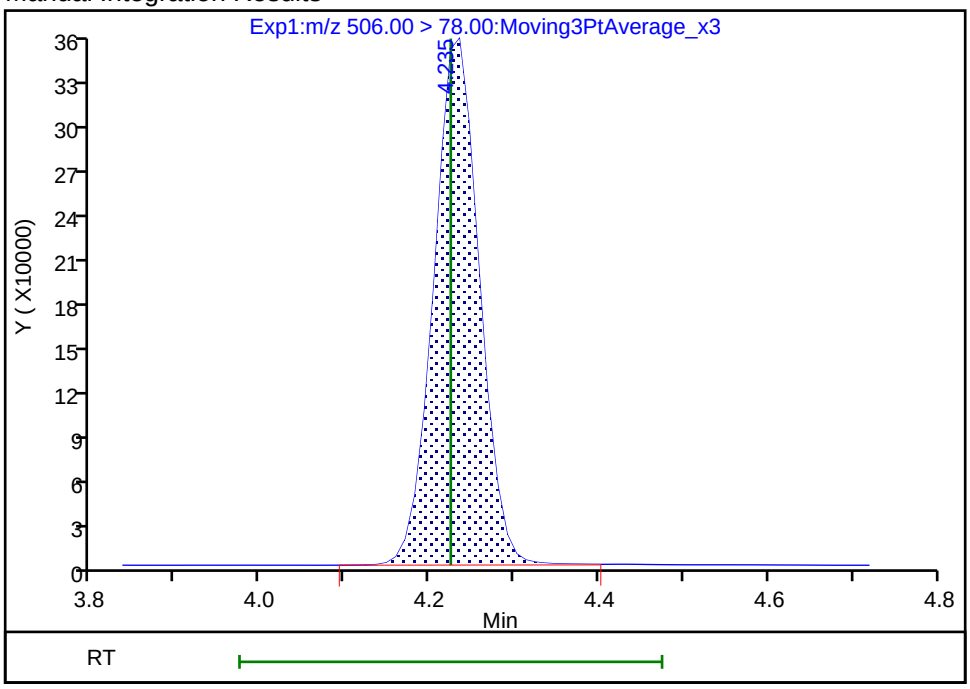
Processing Integration Results

RT: 4.23
Area: 1309095
Amount: 1.184226
Amount Units: ng/ml



Manual Integration Results

RT: 4.23
Area: 1308765
Amount: 1.183927
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:10:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

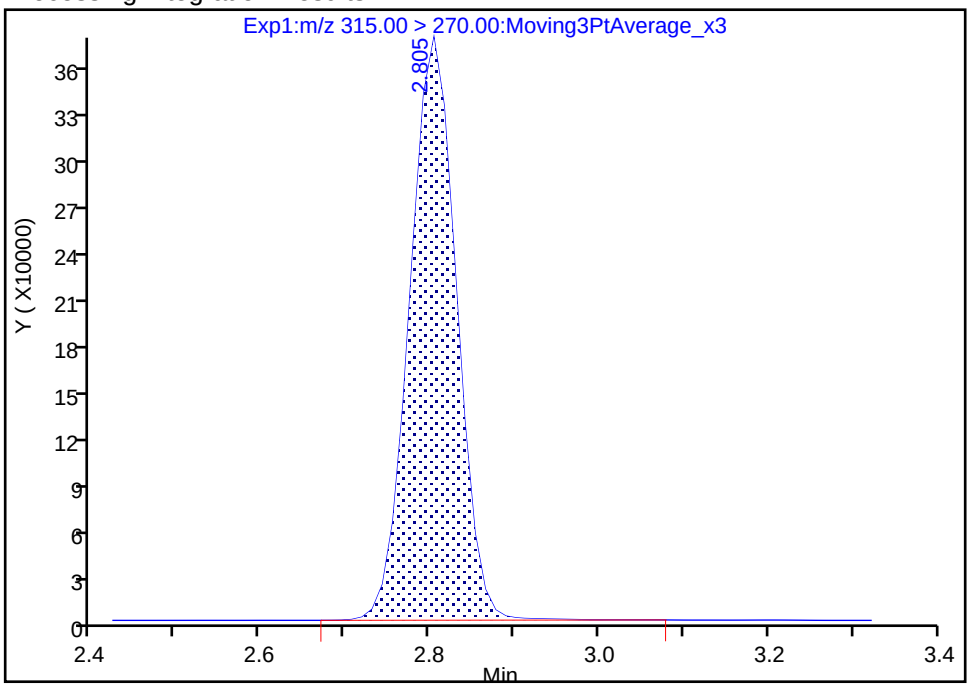
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

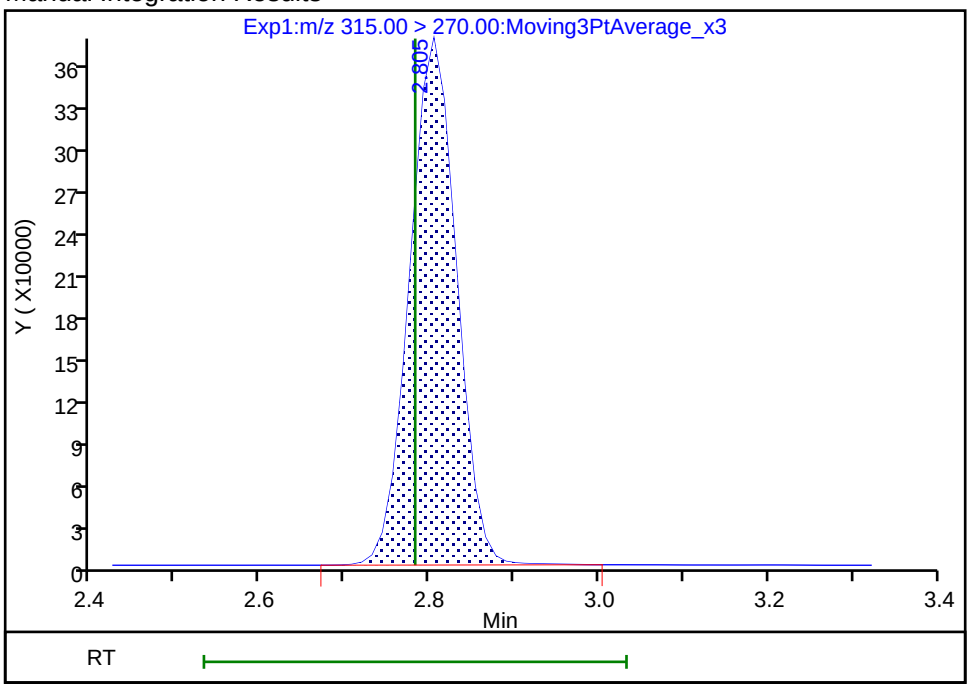
Processing Integration Results

RT: 2.80
Area: 1451270
Amount: 1.290895
Amount Units: ng/ml



Manual Integration Results

RT: 2.80
Area: 1449761
Amount: 1.289553
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:10:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

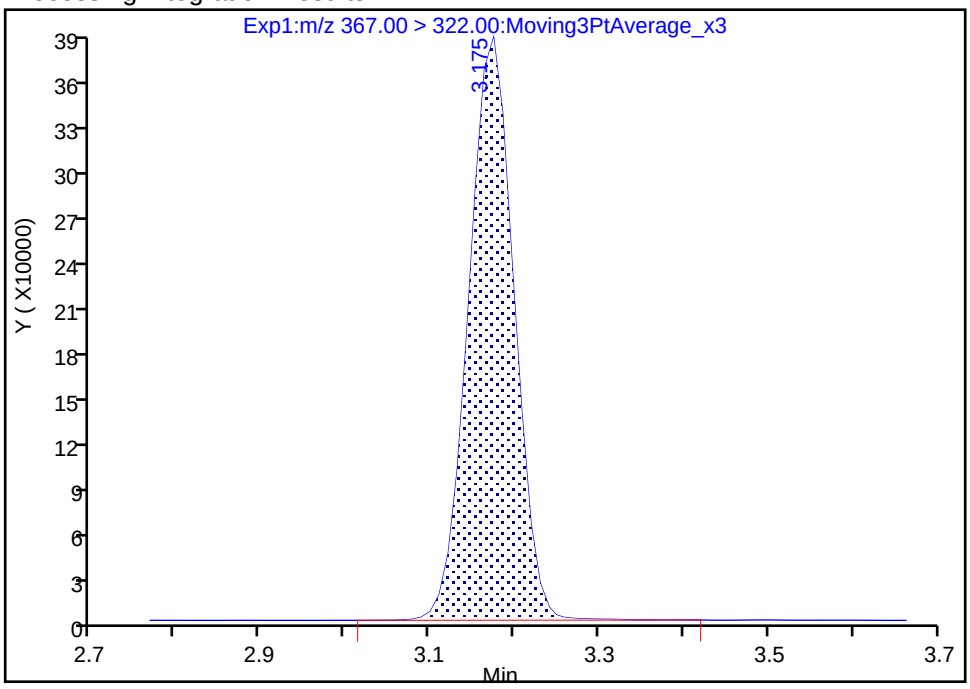
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

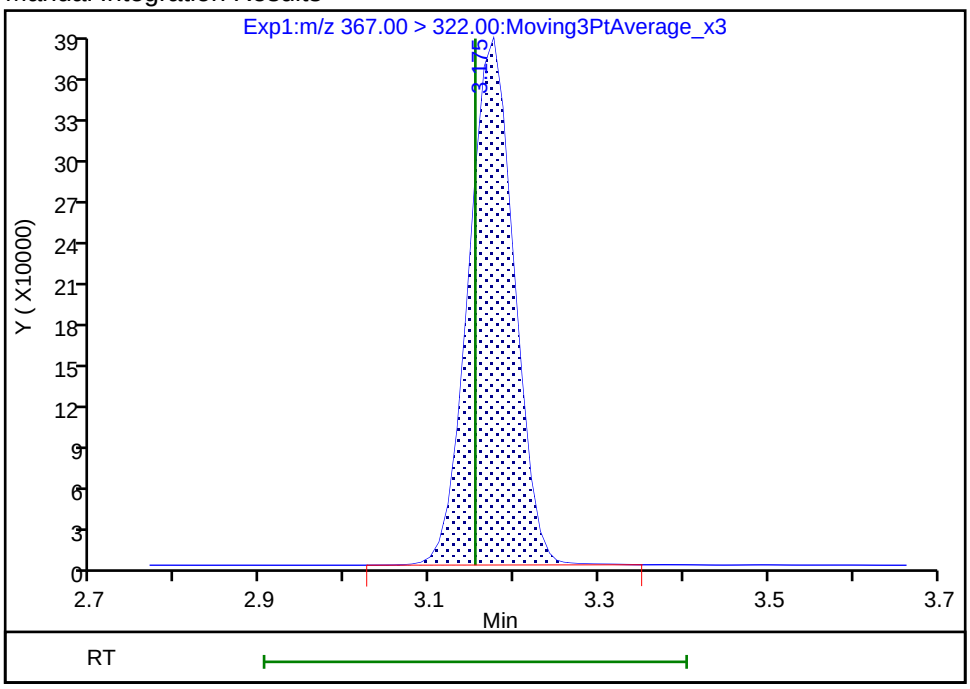
Processing Integration Results

RT: 3.18
Area: 1422772
Amount: 1.262442
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 1420803
Amount: 1.260695
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:10:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

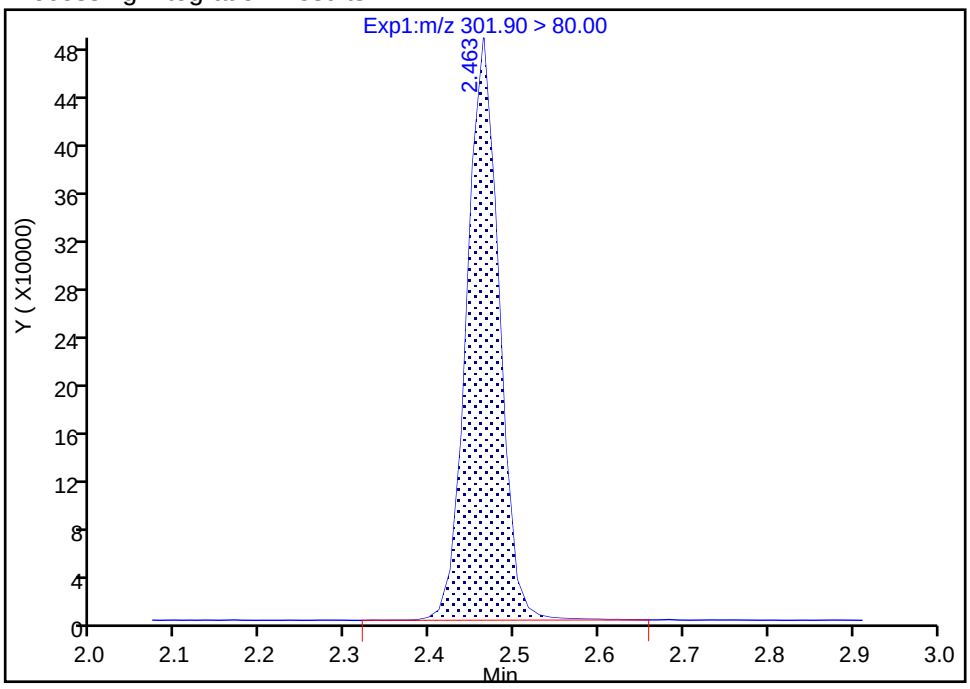
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

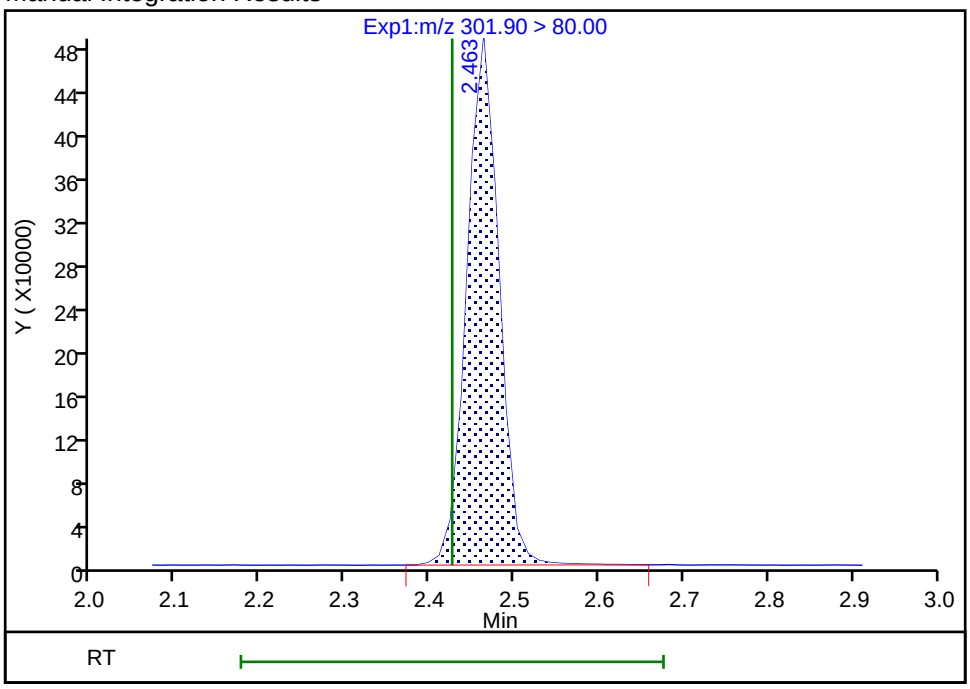
Processing Integration Results

RT: 2.46
Area: 1279430
Amount: 1.183281
Amount Units: ng/ml



Manual Integration Results

RT: 2.46
Area: 1278546
Amount: 1.182463
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:10:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

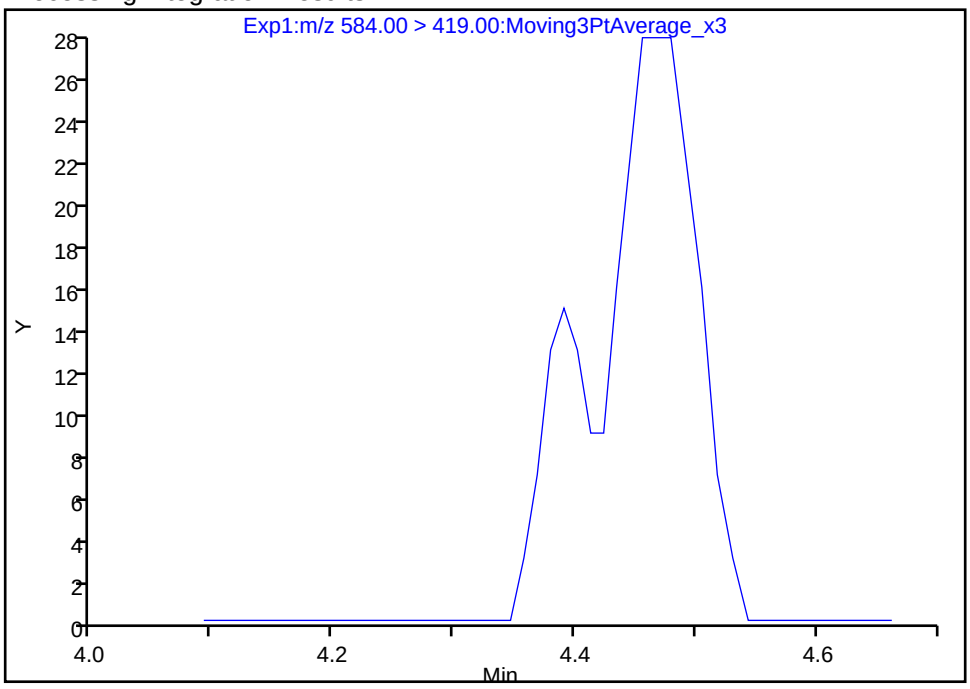
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

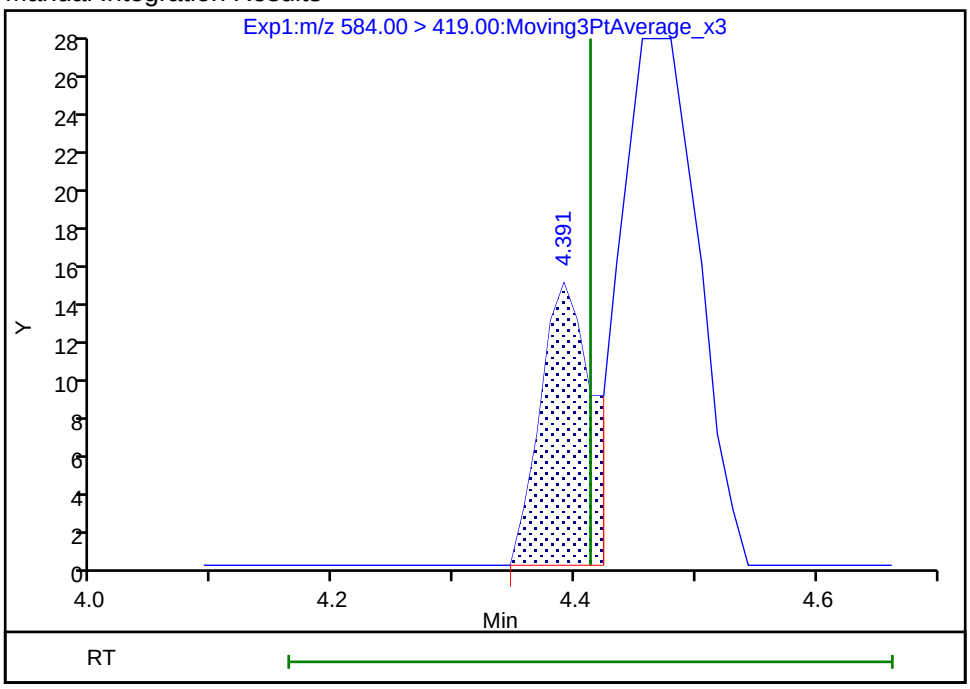
Not Detected
Expected RT: 4.41

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 42
Amount: 0.000831
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:15:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

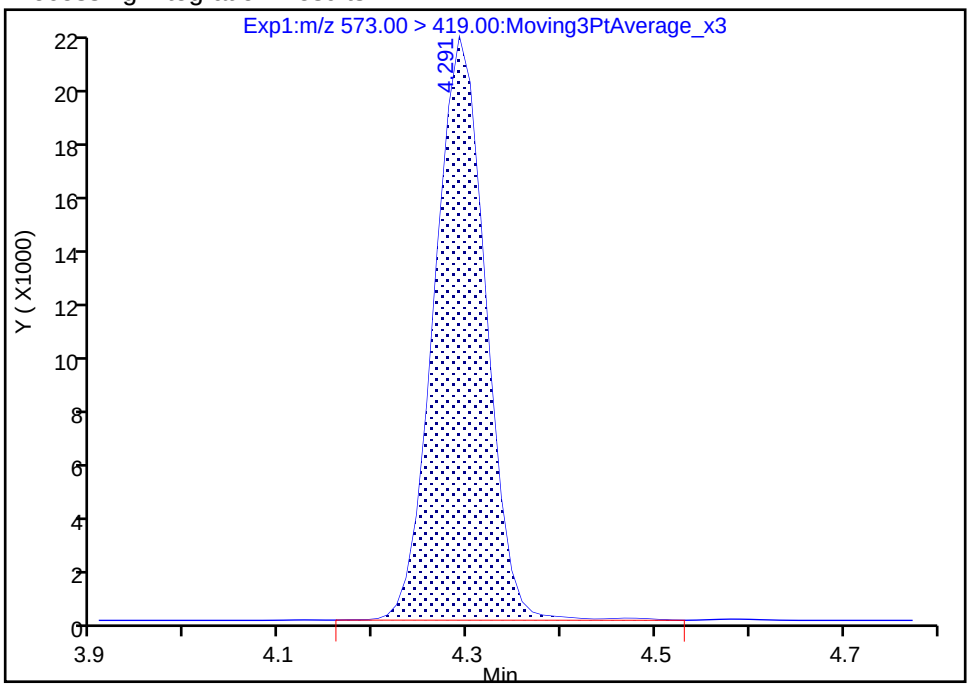
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

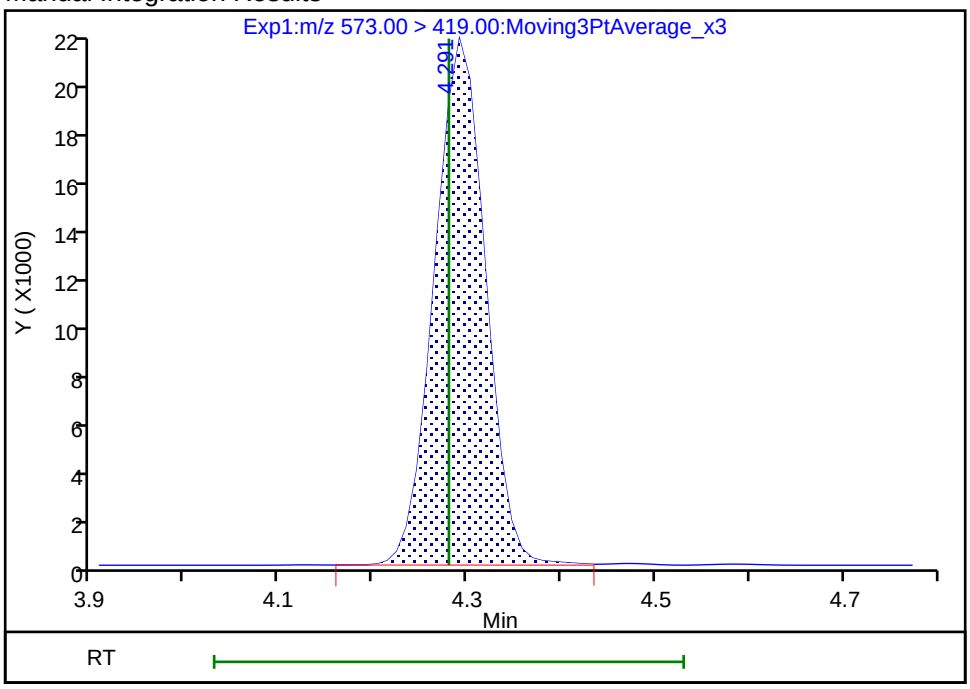
Processing Integration Results

RT: 4.29
Area: 82361
Amount: 1.117104
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 82133
Amount: 1.114011
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:11:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

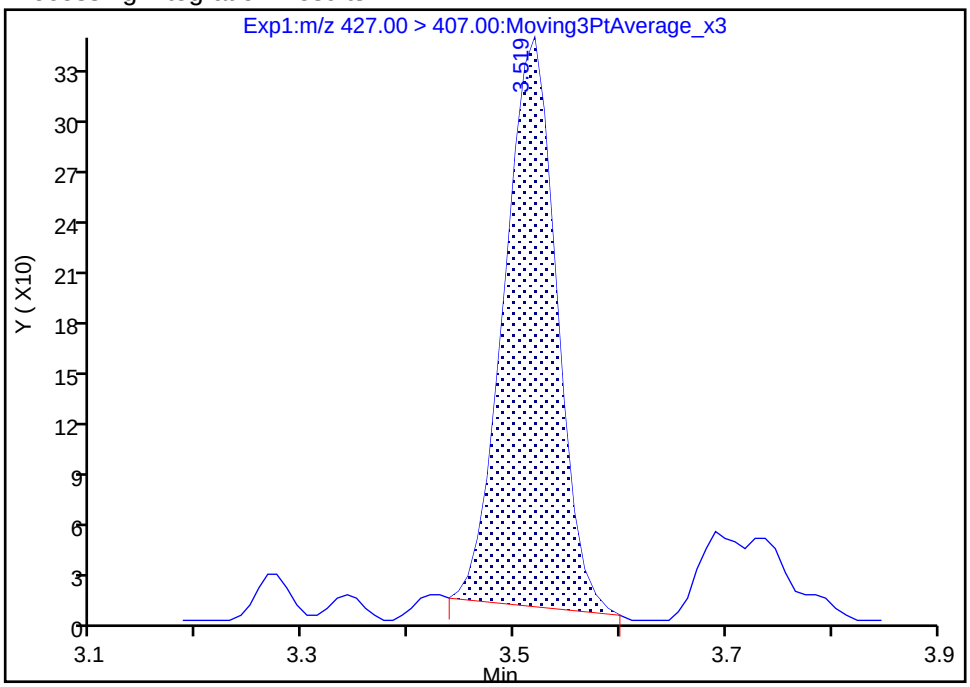
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d		
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10
Client ID:	MW-86-27		
Operator ID:	lc812tech	ALS Bottle#:	14 Worklist Smp#: 17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

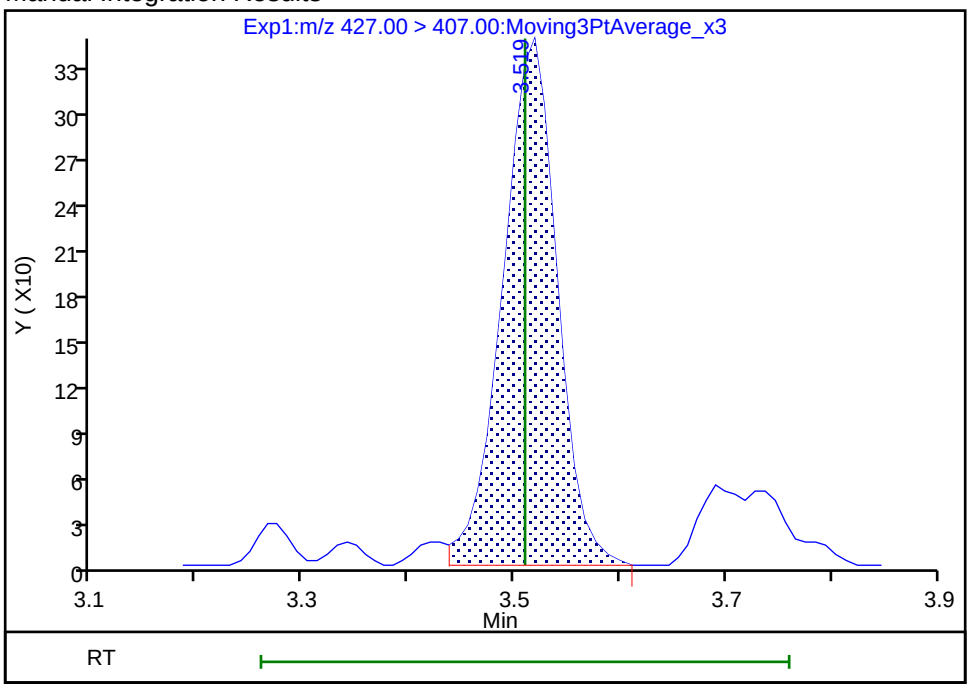
Processing Integration Results

RT: 3.52
Area: 1143
Amount: 0.008618
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 1221
Amount: 0.009206
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:12:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

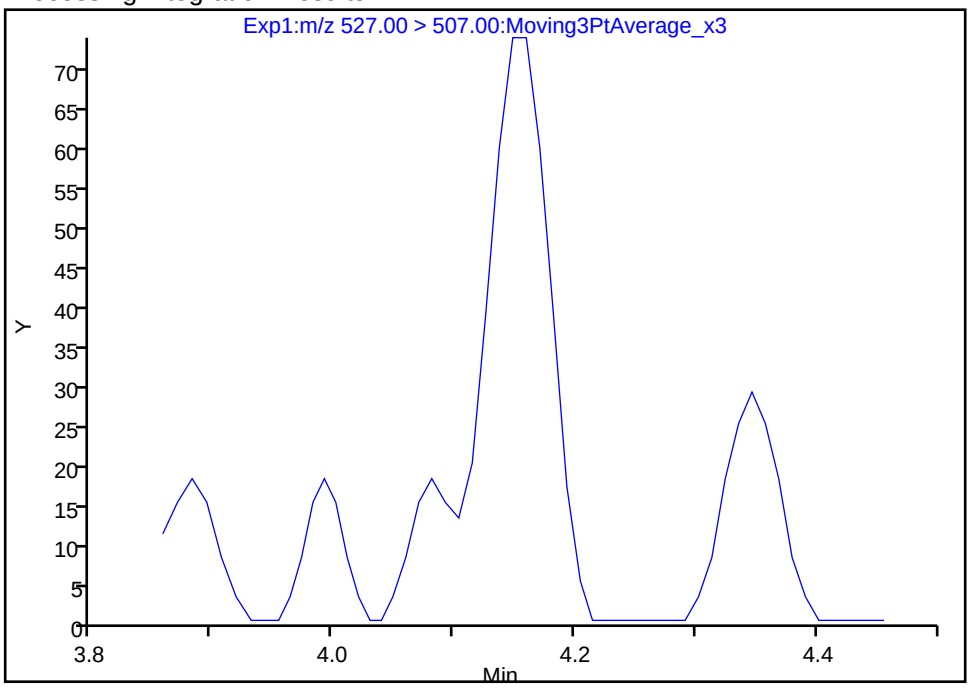
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 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-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

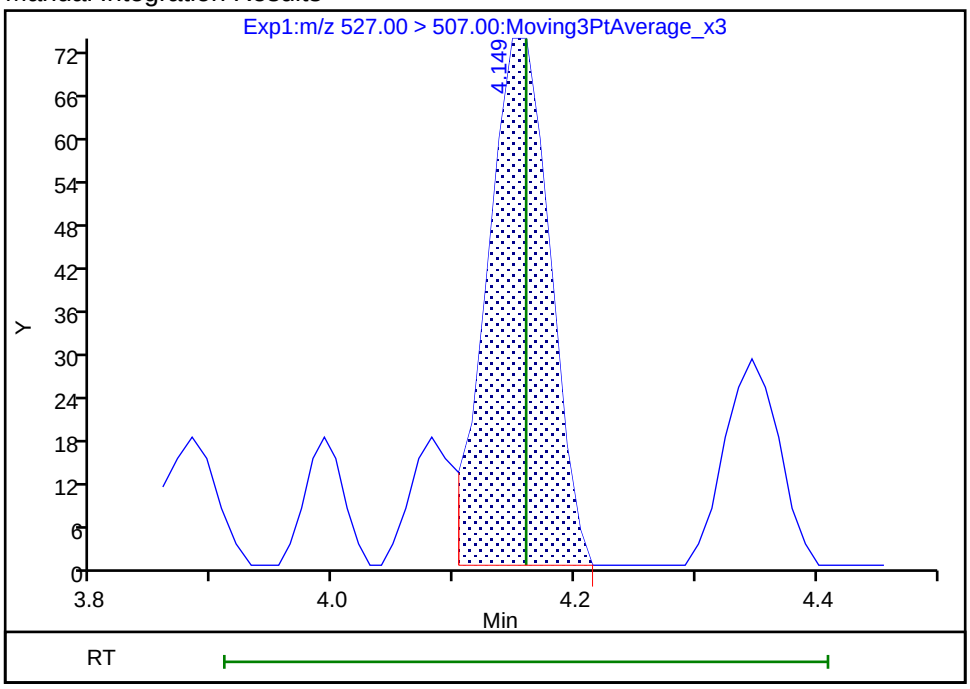
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 264
Amount: 0.004128
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:14:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

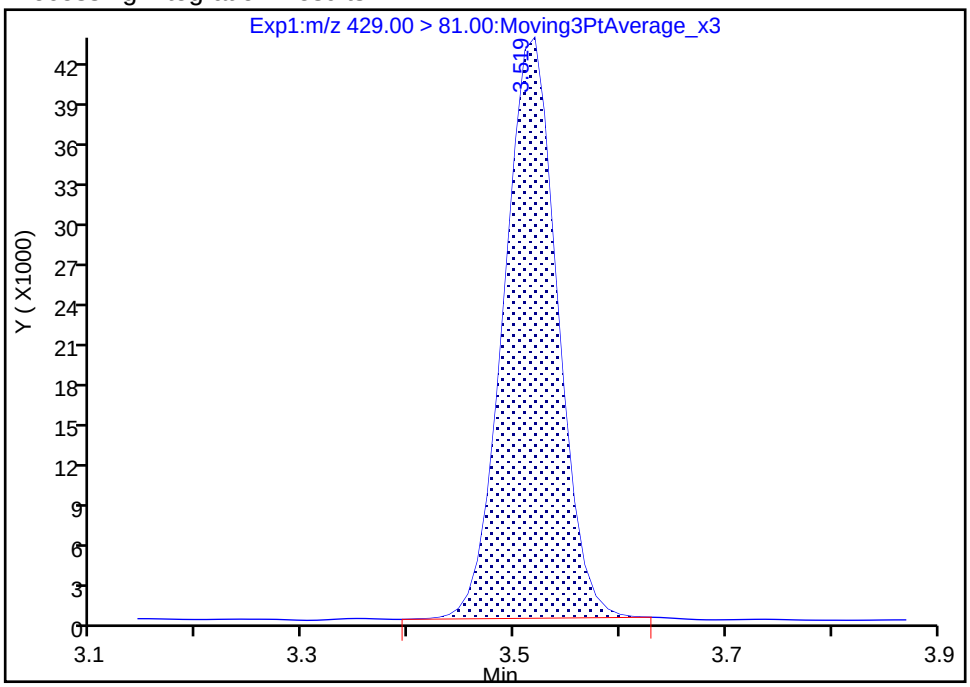
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A17.d				
Injection Date:	11-Aug-2021 14:58:10	Instrument ID:	LC812		
Lims ID:	480-188016-F-10-A	Lab Sample ID:	200-188016-10		
Client ID:	MW-86-27				
Operator ID:	lc812tech	ALS Bottle#:	14	Worklist Smp#:	17
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

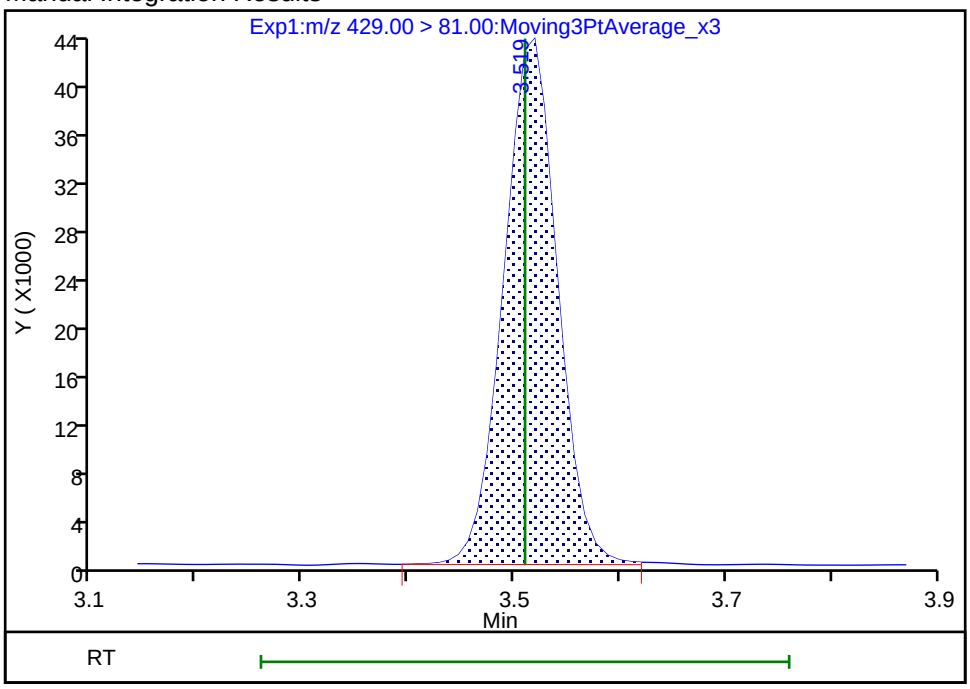
Processing Integration Results

RT: 3.52
Area: 150761
Amount: 1.265386
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 151965
Amount: 1.275492
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:10:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: DUP-080321 Lab Sample ID: 480-188016-11

Matrix: Water Lab File ID: PA210811A18.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 00:00

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 263.6(mL) Date Analyzed: 08/11/2021 15:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	1.7	J	4.7	0.85
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.9	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.9	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	0.45	J	1.9	0.40
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.9	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.9	0.33
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.9	0.37
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.9	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.60
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.72	J B	1.9	0.24
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.29
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.29
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.55
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.7	0.86
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.7	0.70
27619-97-2	6:2 FTS	ND		4.7	1.0
39108-34-4	8:2 FTS	ND		1.9	0.37

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: DUP-080321 Lab Sample ID: 480-188016-11

Matrix: Water Lab File ID: PA210811A18.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 00:00

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 263.6(mL) Date Analyzed: 08/11/2021 15:06

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	94		25-150
STL00992	13C4 PFBA	83		25-150
STL01893	13C5 PFPeA	98		25-150
STL00993	13C2 PFHxA	103		50-150
STL01892	13C4 PFHpA	105		50-150
STL00990	13C4 PFOA	105		50-150
STL00995	13C5 PFNA	97		50-150
STL00996	13C2 PFDA	99		50-150
STL00997	13C2 PFUnA	86		50-150
STL00998	13C2 PFDoA	85		50-150
STL02116	13C2 PFTeDA	89		50-150
STL02337	13C3 PFBS	105		50-150
STL00994	18O2 PFHxS	108		50-150
STL00991	13C4 PFOS	99		50-150
STL02118	d3-NMeFOSAA	92		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	110		25-150
STL02280	M2-8:2 FTS	92		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d
Lims ID: 480-188016-F-11-A
Client ID: DUP-080321
Sample Type: Client
Inject. Date: 11-Aug-2021 15:06:26 ALS Bottle#: 15 Worklist Smp#: 18
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-F-11-A
Misc. Info.: 200-0047128-018 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:32:14 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 10:22:15
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	2.109	2.082	0.027	0.598	1320599	1.03		82.8	7176	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.082	0.027	1.000	46594	0.0458			6.1	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.691	1178961	1.22		97.6	2936	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.439	2.413	0.026	1.000	9768	0.0100			0.8	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.465	2.426	0.039	0.699	1255153	1.23		105	118070	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.465	2.426	0.039	1.000	22046	0.0189	Target=2.20		11.4	M
298.90 > 99.00	2.465	2.426	0.039	1.000	11130		1.98(1.10-3.30)		5.4	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.807	2.782	0.025	0.796	1374662	1.29		103	4306	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.807	2.782	0.025	1.000	10866	0.009821	Target=12.93		2.2	M
313.00 > 119.00	2.794	2.782	0.012	0.996	858		12.66(6.46-19.39)		2.0	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.164	3.154	0.010	0.897	1036769	1.28		108	3049	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.175	3.154	0.021	1.003	7495	0.007388	Target=4.48		11.5	M
399.00 > 99.00	3.175	3.154	0.021	1.003	1819		4.12(2.24-6.72)		2.2	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.175	3.154	0.021	1.000	6562	0.005686	Target=3.68		1.7	M
363.00 > 169.00	3.175	3.154	0.021	1.000	1408		4.66(1.84-5.53)		5.1	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1395161	1.31		105	4370	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.519	3.510	0.009	0.917	285	0.000390	Target=6.56		1.8	RM
449.00 > 99.00	3.519	3.510	0.009	0.917	183		1.56(3.28-9.84)		1.1	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.519	3.510	0.009	0.997	146787	1.30		110	364	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.510	3.510	0.0	0.997	95	0.000742			2.7	M
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1448854	1.32		105	5186	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1394281	1.25			3658	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	14418	0.0118	Target=2.67		4.6	M
413.00 > 169.00	3.528	3.519	0.009	1.000	6469		2.23(1.33-4.00)		14.2	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.087	700626	1.18		98.8	2465	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.824	3.836	-0.012	0.997	3172	0.004828	Target=6.69		2.2	RM
499.00 > 99.00	3.836	3.836	0.0	1.000	1607		1.97(3.34-10.03)		3.7	M
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.094	1263298	1.21		96.6	4626	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.858	3.858	0.0	1.000	1382	0.001414	Target=7.21		0.5	M
463.00 > 169.00	3.847	3.858	-0.011	0.997	299		4.62(3.60-10.81)		2.1	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.148	4.148	0.0	1.176	1169217	1.23		98.6	3559	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.148	4.160	-0.012	0.997	134	0.002178			4.6	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.159	4.160	-0.001	1.179	147875	1.10		92.0	602	M
D 21 13C8 FOSA										
506.00 > 78.00	4.234	4.224	0.010	1.200	1235575	1.18		94.5	2481	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.234	4.224	0.010	1.000	1038	0.001074			8.6	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.292	4.280	0.012	1.217	80325	1.15		92.1	2126	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.303	4.291	0.012	1.003	131	0.002452			0.6	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.414	4.402	0.012	1.251	810242	1.08		86.1	3220	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.425	4.413	0.012	1.254	82449	1.13		90.8	736	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.643	4.632	0.011	1.316	823045	1.06		84.6	1940	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.632	0.001	0.998	964	0.001450	Target=6.31		0.4	M
613.00 > 169.00	4.643	4.632	0.011	1.000	159		6.06(3.15-9.46)		4.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.856	4.845	0.011	1.046	539	0.000941	Target=4.61		0.3	RM
663.00 > 169.00	4.845	4.845	0.0	1.044	57		9.46(2.31-6.92)		1.4	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.044	5.034	0.010	1.430	678410	1.11		89.0	3417	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.034	5.034	0.0	0.998	126	0.001351	Target=1.00		3.6	M
713.00 > 219.00	5.053	5.034	0.019	1.002	105		1.20(0.50-1.51)		4.4	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:32:37 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d

Injection Date: 11-Aug-2021 15:06:26 Instrument ID: LC812

Lims ID: 480-188016-F-11-A Lab Sample ID: 200-188016-11

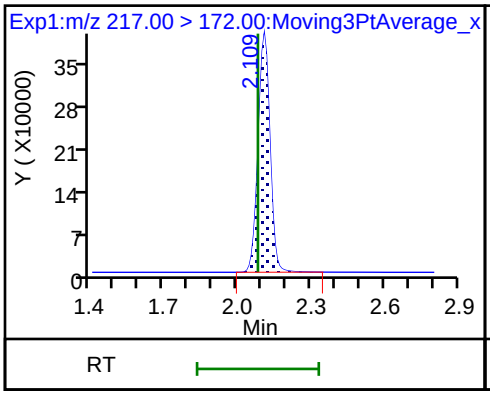
Client ID: DUP-080321

Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 18

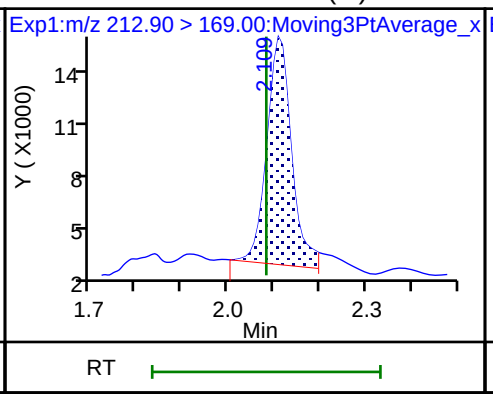
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

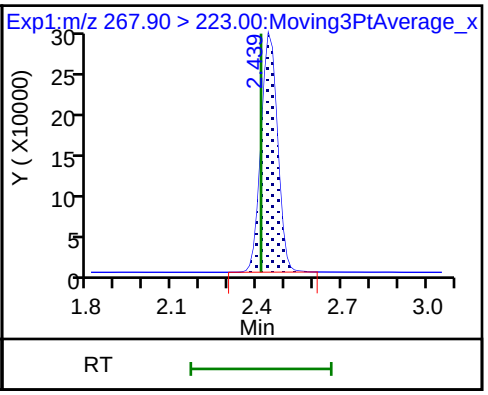
D 1 13C4 PFBA



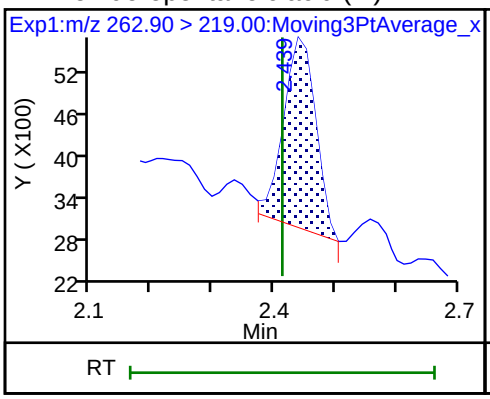
2 Perfluorobutanoic acid (M)



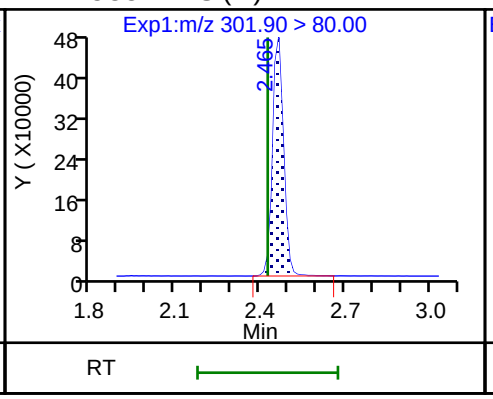
D 3 13C5 PFPeA



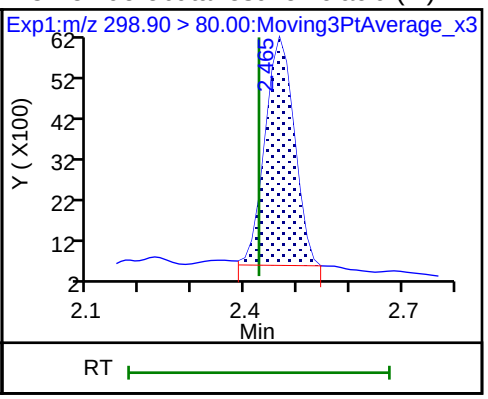
4 Perfluoropentanoic acid (M)



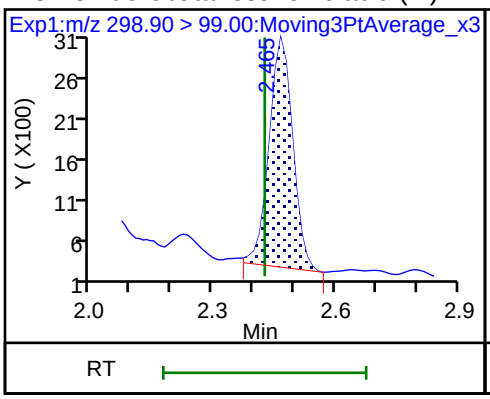
D 47 13C3 PFBS (M)



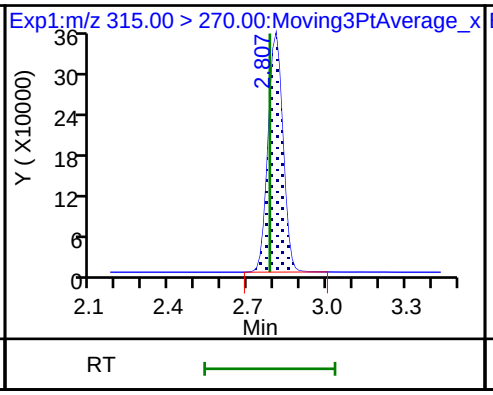
5 Perfluorobutanesulfonic acid (M)



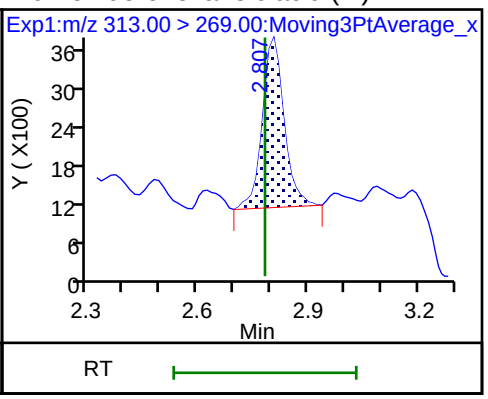
5 Perfluorobutanesulfonic acid (M)



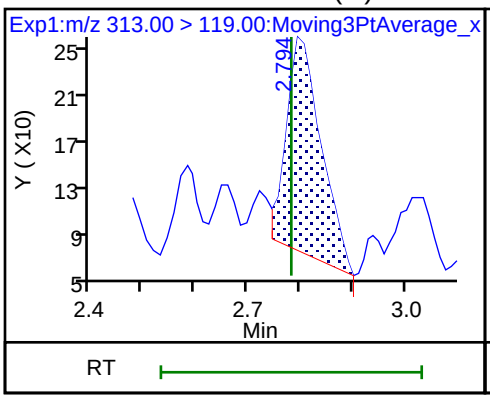
D 7 13C2 PFHxA



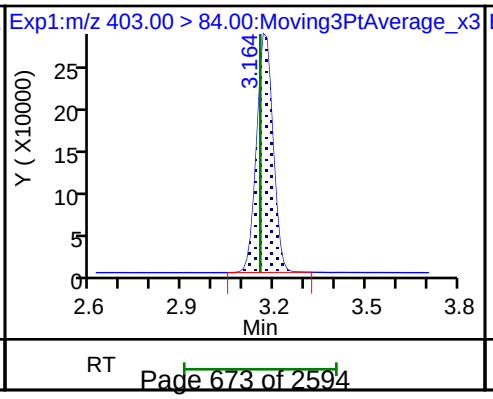
6 Perfluorohexanoic acid (M)



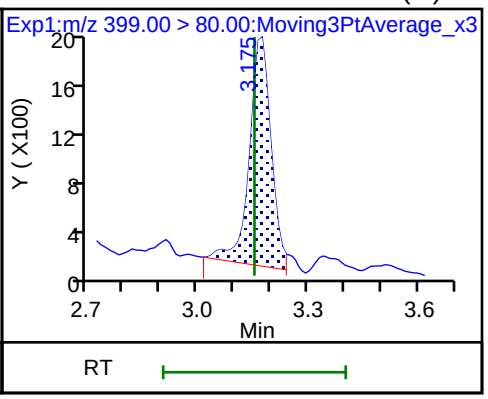
6 Perfluorohexanoic acid (M)



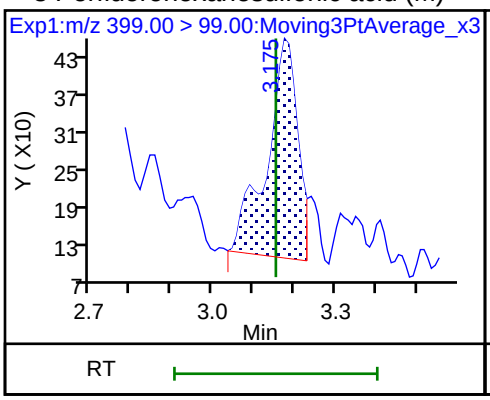
D 11 18O2 PFHxS



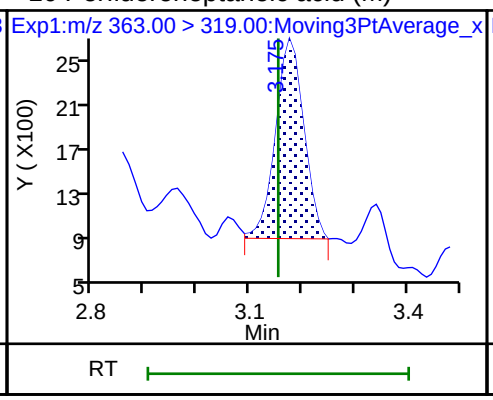
8 Perfluorohexanesulfonic acid (M)



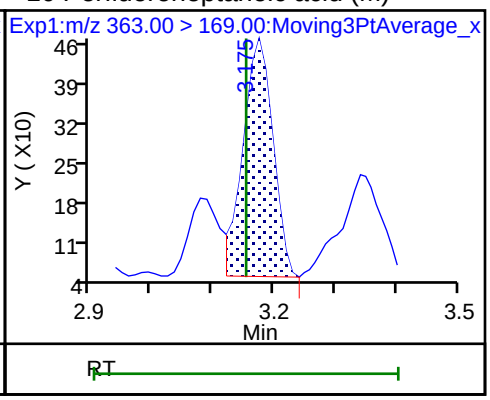
8 Perfluorohexanesulfonic acid (M)



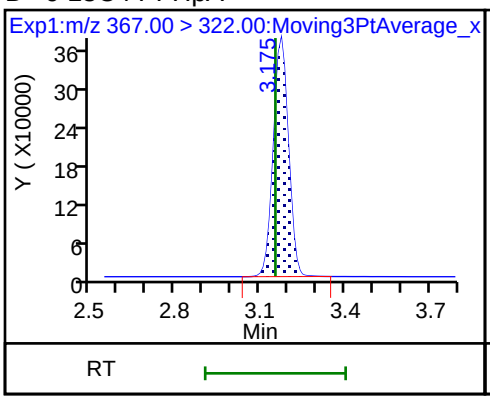
10 Perfluoroheptanoic acid (M)



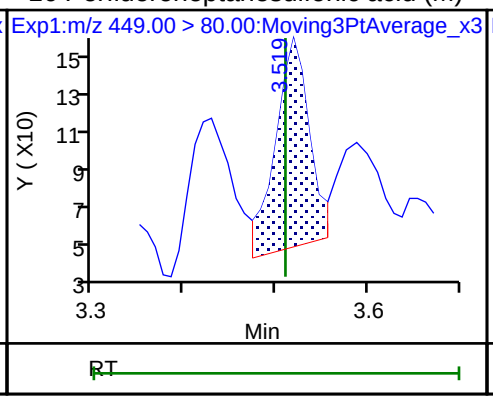
10 Perfluoroheptanoic acid (M)



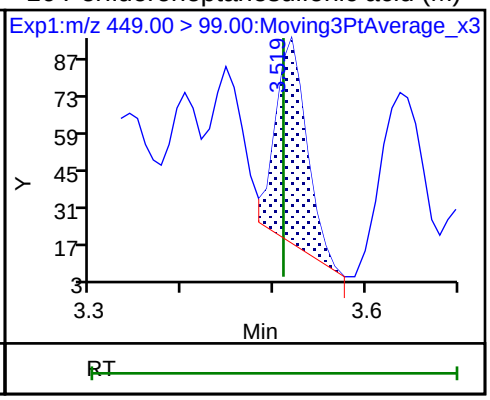
D 9 13C4 PFHpA



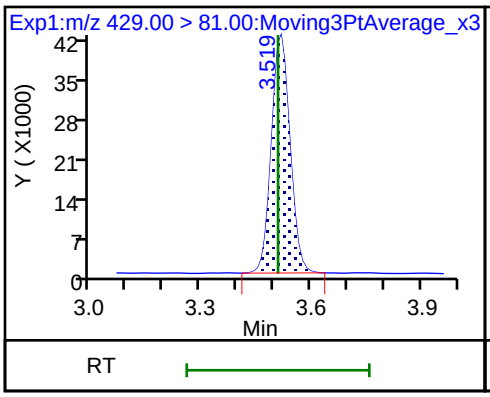
16 Perfluoroheptanesulfonic acid (M)



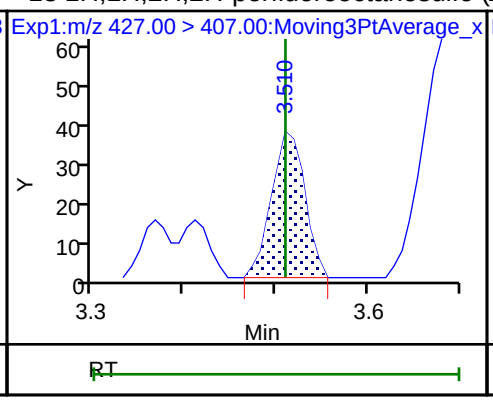
16 Perfluoroheptanesulfonic acid (M)



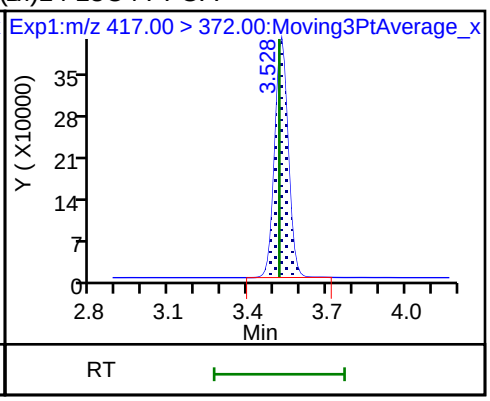
D 12 M2-6:2 FTS



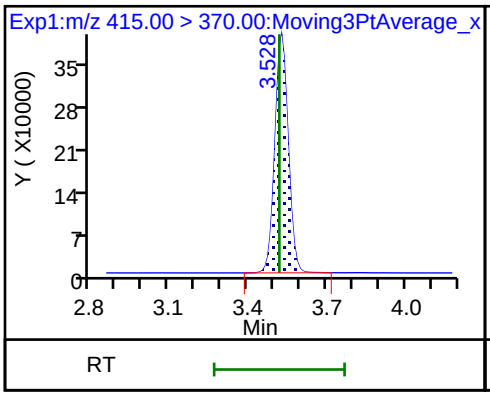
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



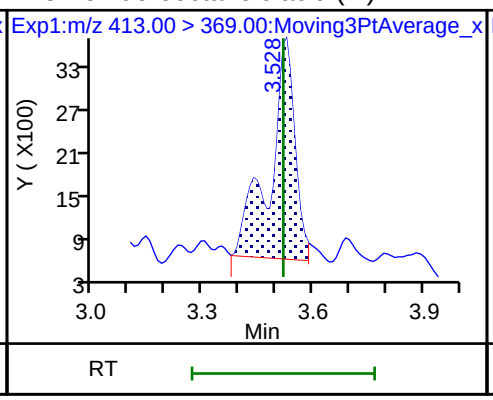
D 14 13C4 PFOA



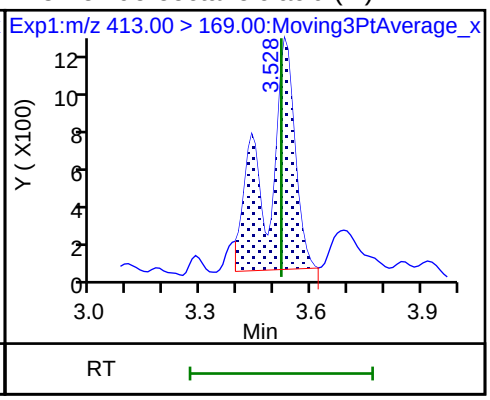
* 62 13C2 PFOA



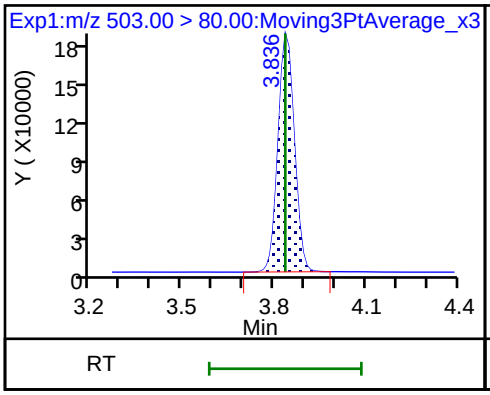
15 Perfluorooctanoic acid (M)



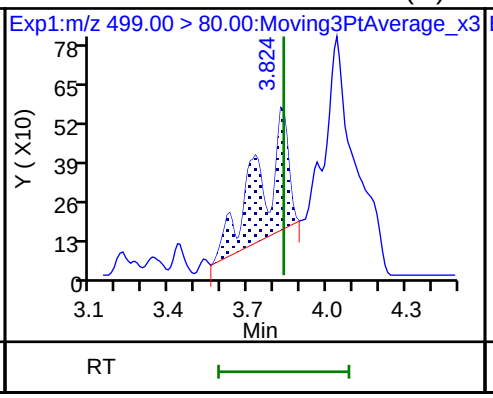
15 Perfluorooctanoic acid (M)



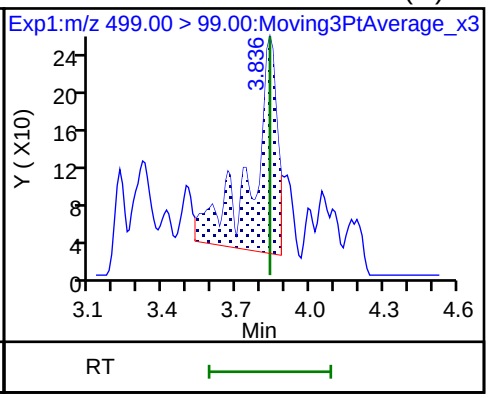
D 18 13C4 PFOS



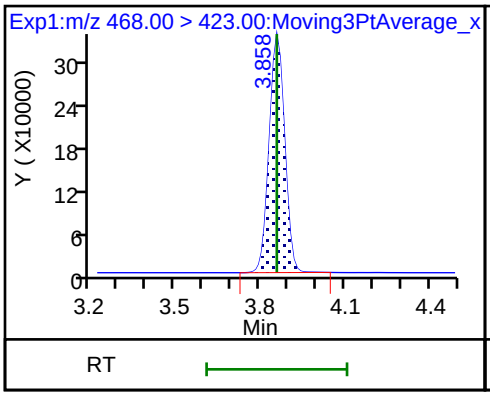
17 Perfluorooctanesulfonic acid (M)



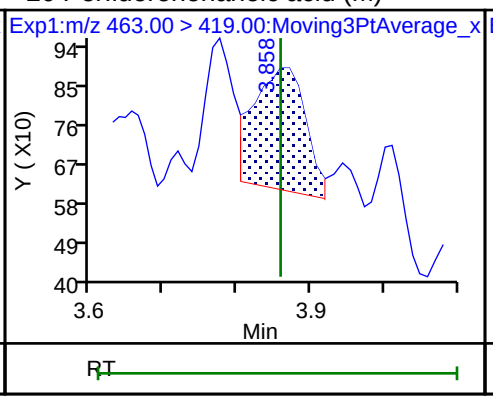
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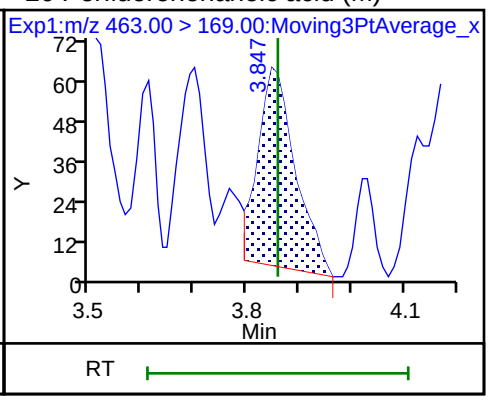
D 19 13C5 PFNA



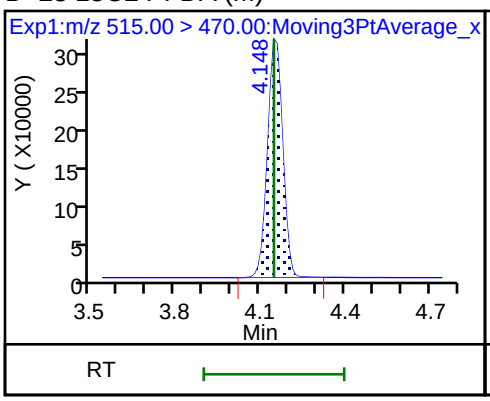
20 Perfluorononanoic acid (M)



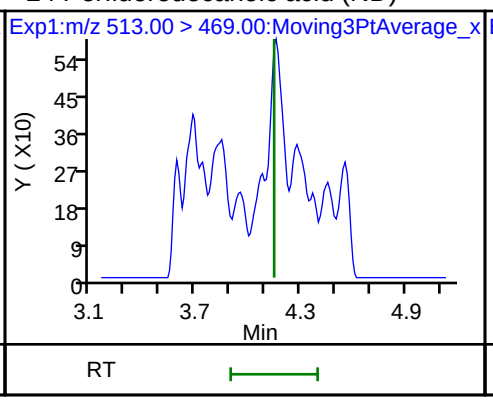
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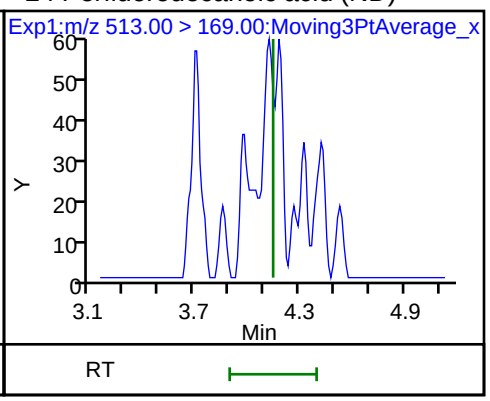
D 23 13C2 PFDA (M)



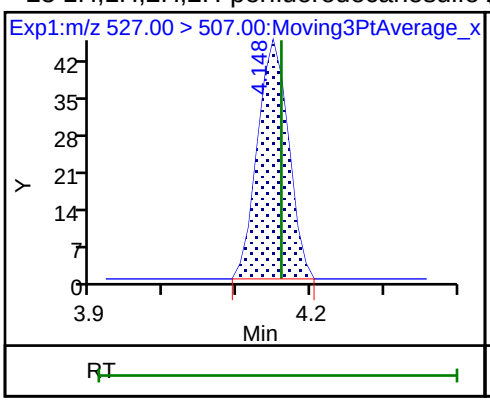
24 Perfluorodecanoic acid (ND)



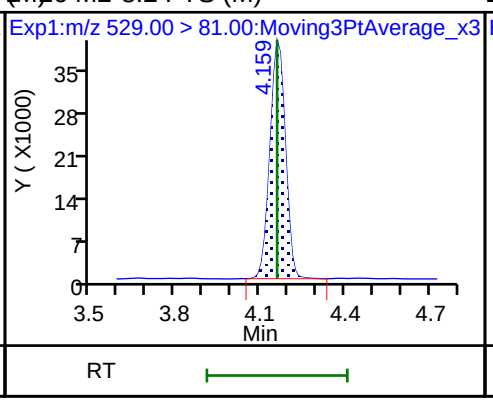
24 Perfluorodecanoic acid (ND)



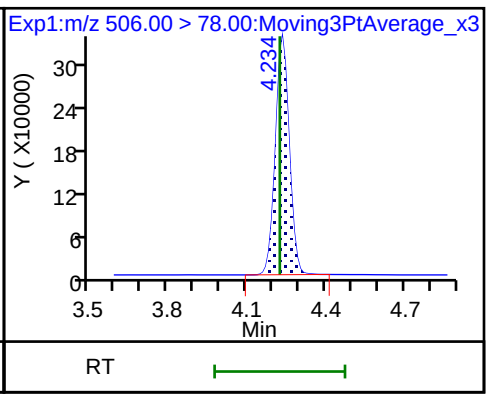
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



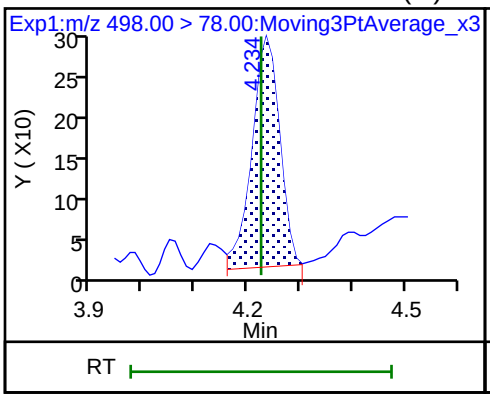
D 26 M2-8:2 FTS (M)



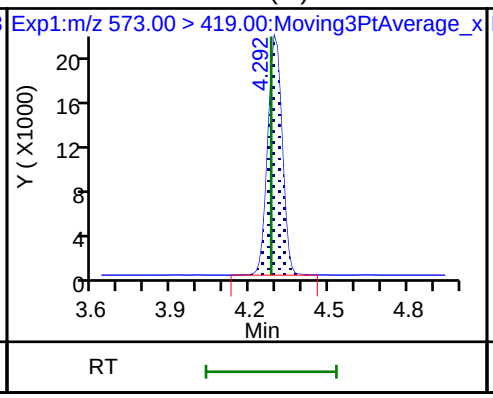
D 21 13C8 FOSA



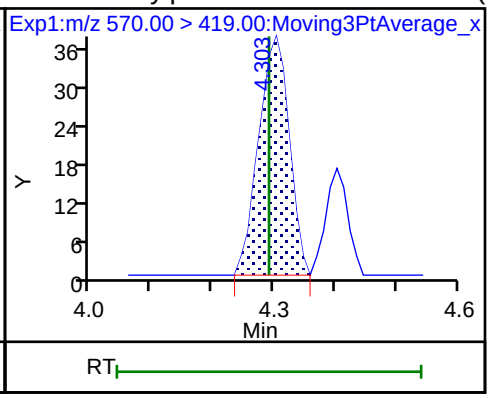
22 Perfluorooctanesulfonamide (M)



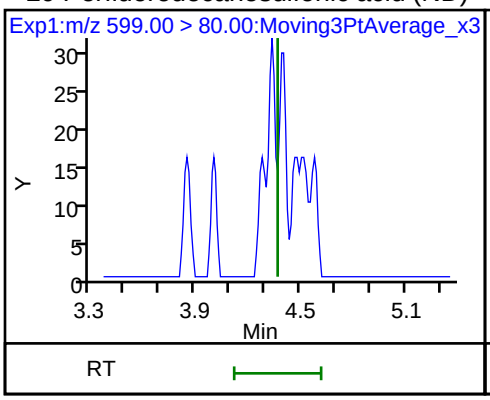
D 27 d3-NMeFOSAA (M)



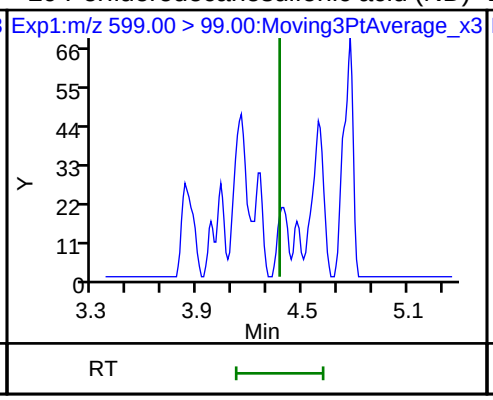
28 N-methylperfluorooctanesulfonami (M)



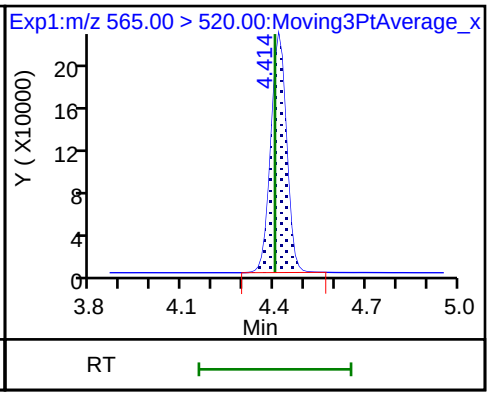
29 Perfluorodecanesulfonic acid (ND)



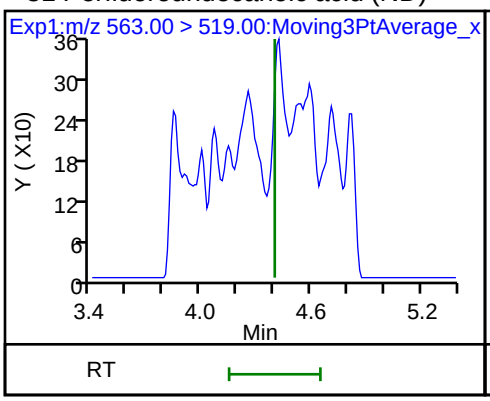
29 Perfluorodecanesulfonic acid (ND)



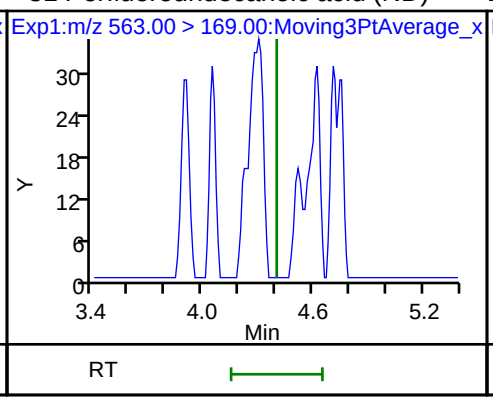
D 30 13C2 PFUnA



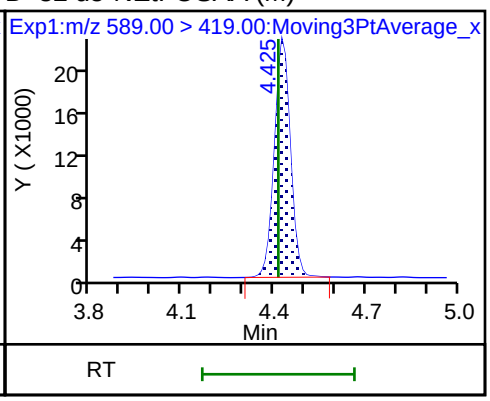
31 Perfluoroundecanoic acid (ND)



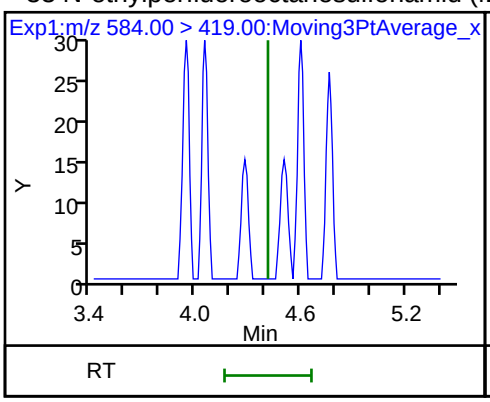
31 Perfluoroundecanoic acid (ND)



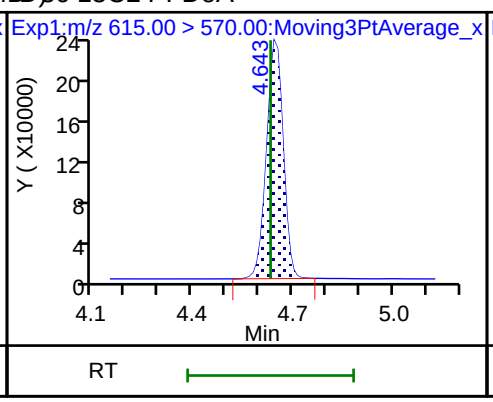
D 32 d5-NEtFOSAA (M)



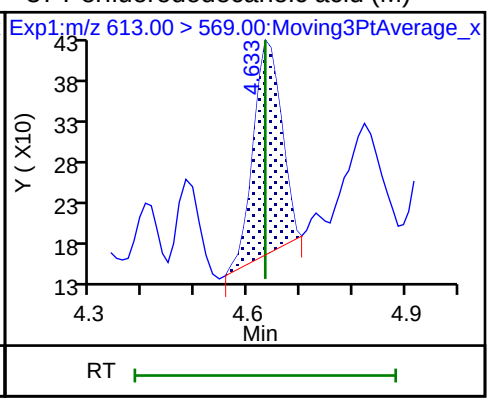
33 N-ethylperfluorooctanesulfonamid (ND)



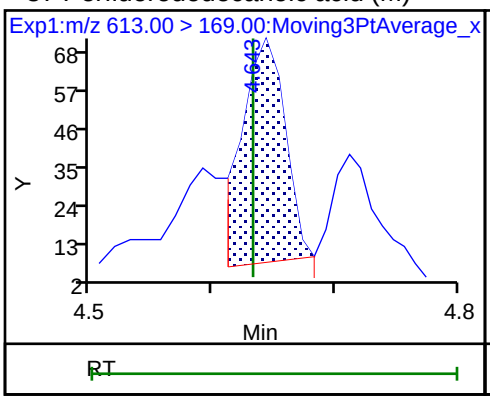
D 36 13C2 PFDoA



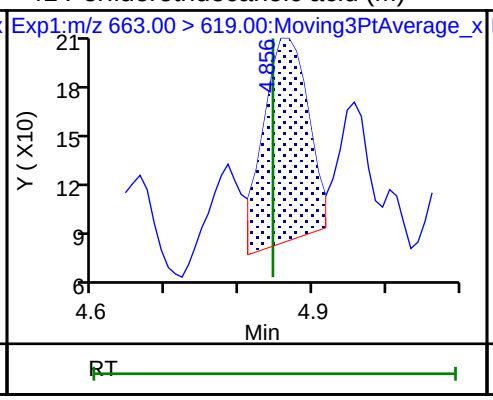
37 Perfluorododecanoic acid (M)



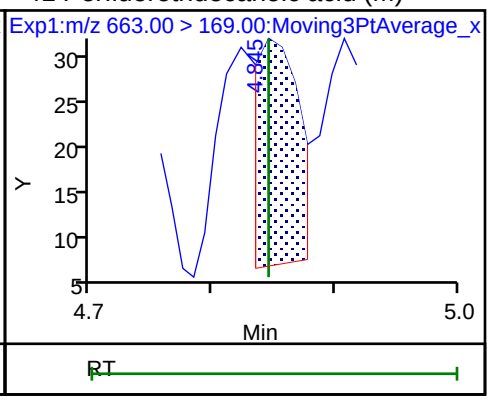
37 Perfluorododecanoic acid (M)



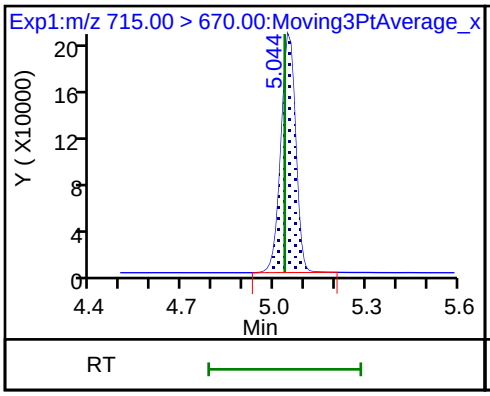
41 Perfluorotridecanoic acid (M)



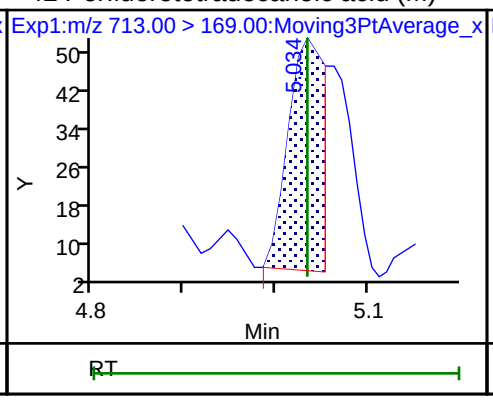
41 Perfluorotridecanoic acid (M)



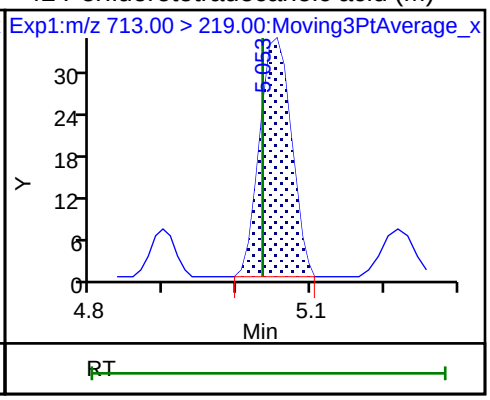
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

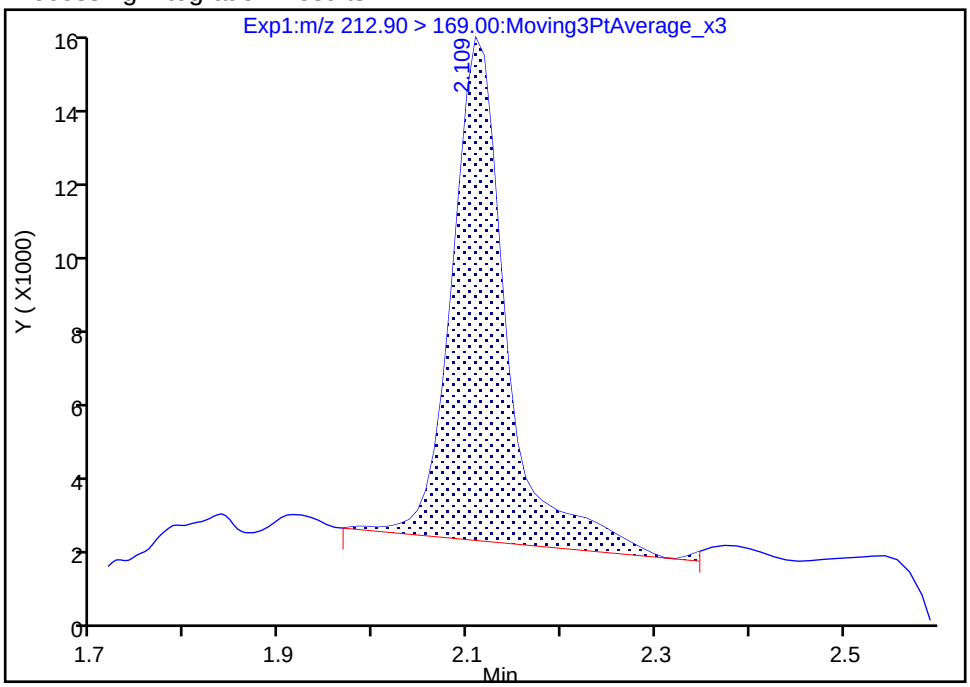
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

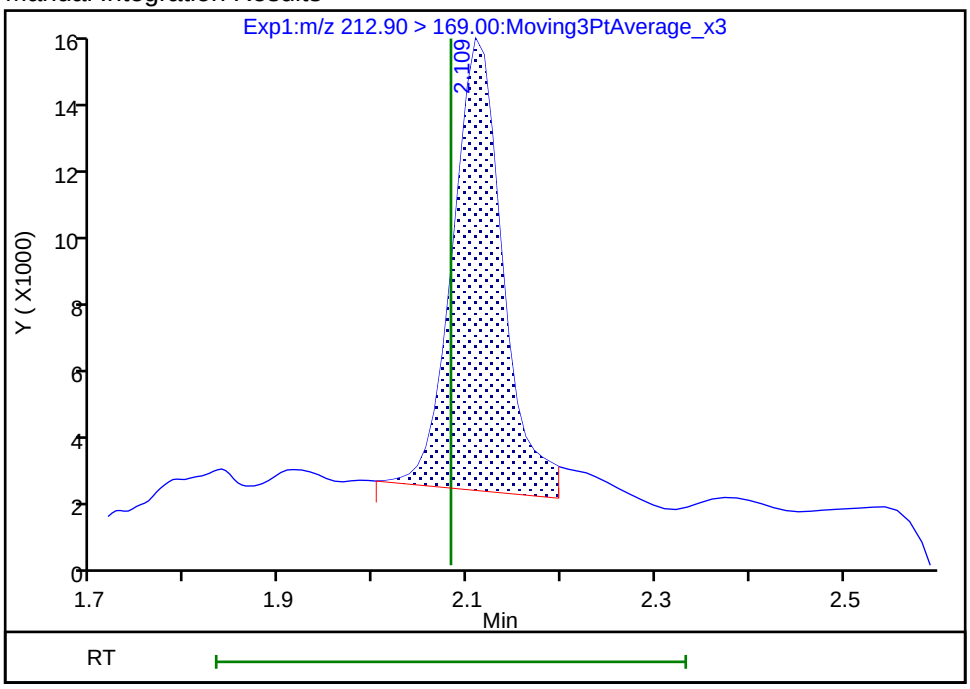
Processing Integration Results

RT: 2.11
Area: 51244
Amount: 0.050329
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 46594
Amount: 0.045762
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:16:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

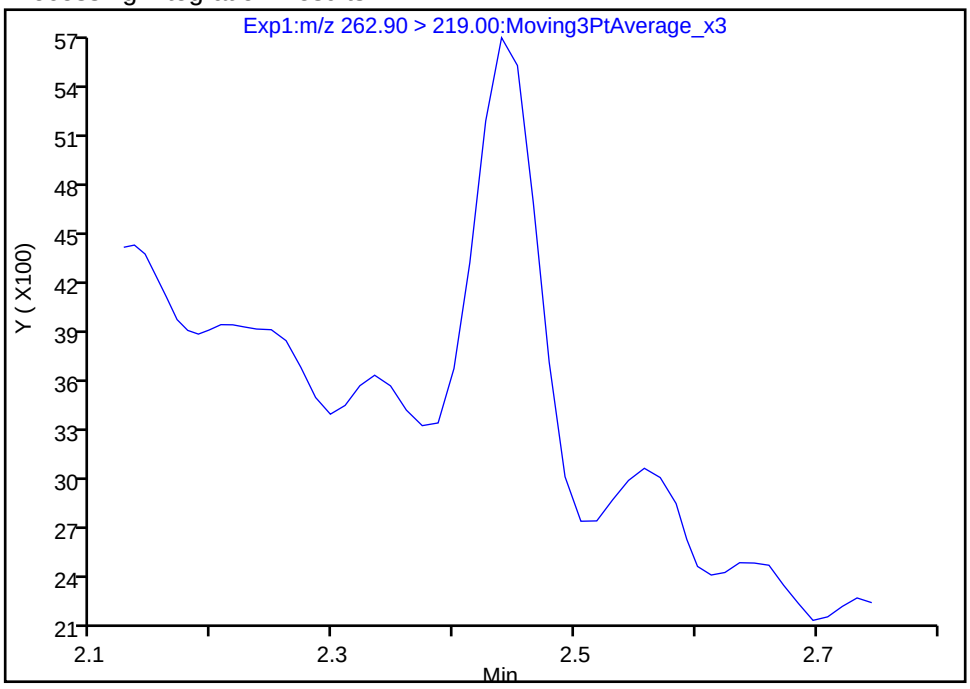
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Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

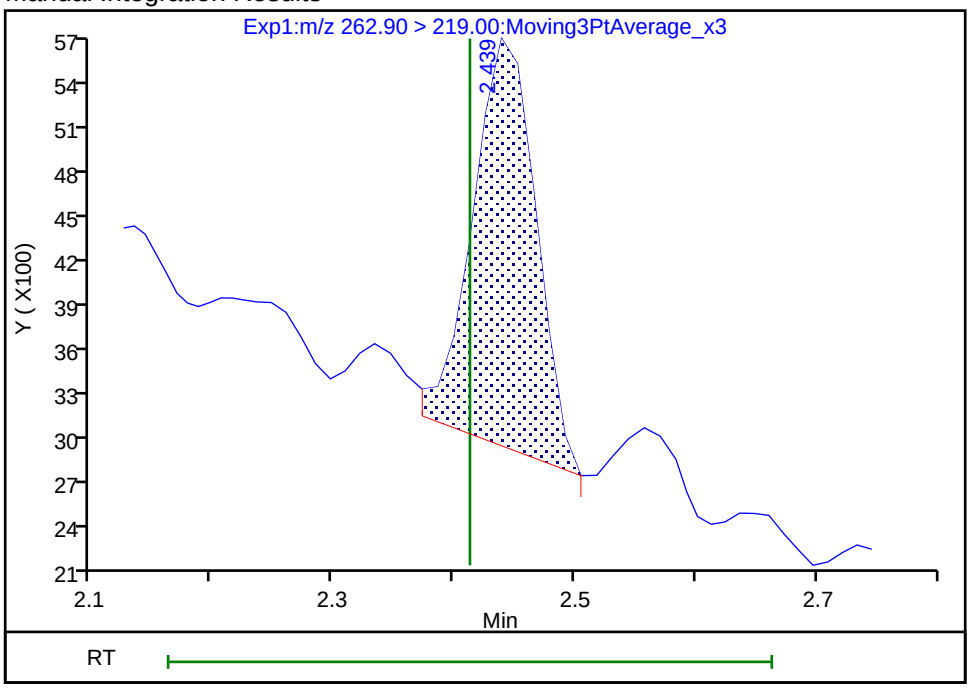
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.44
Area: 9768
Amount: 0.010007
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:17:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

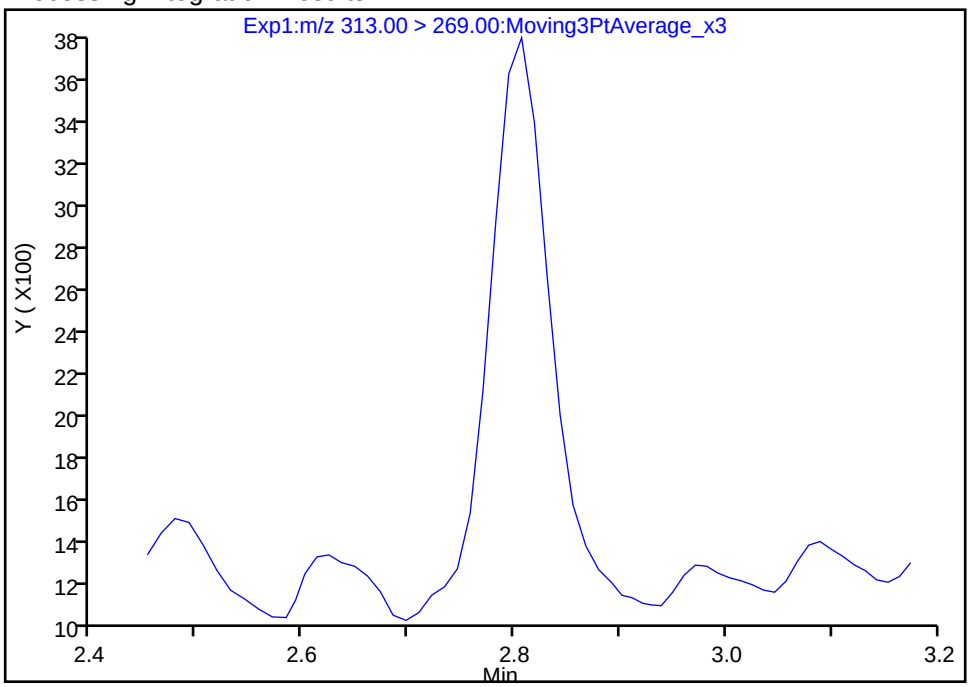
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

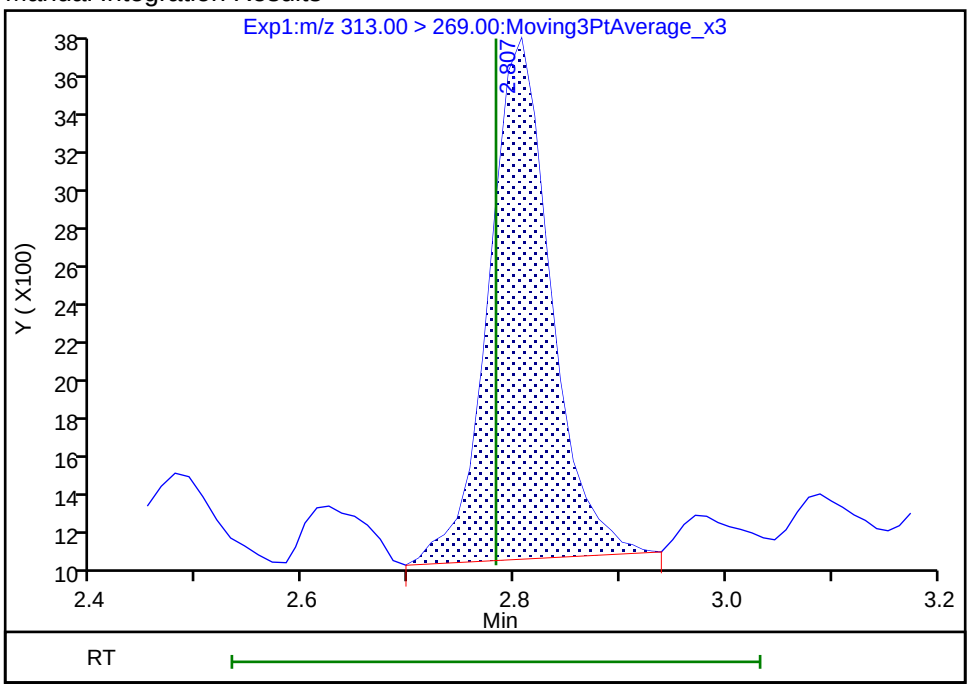
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.81
Area: 10866
Amount: 0.009821
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:17:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

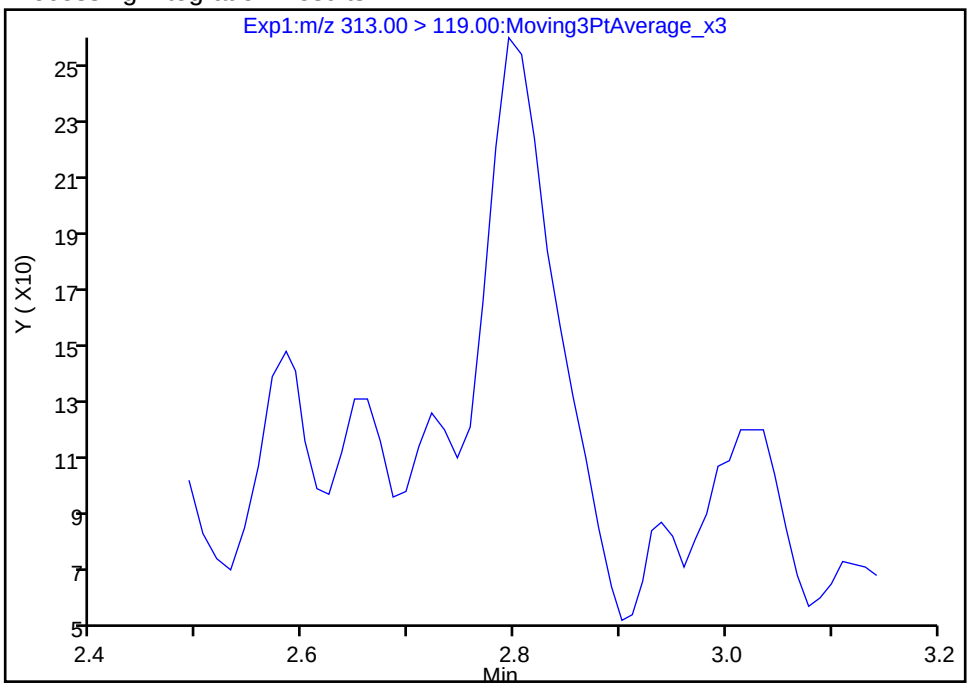
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Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

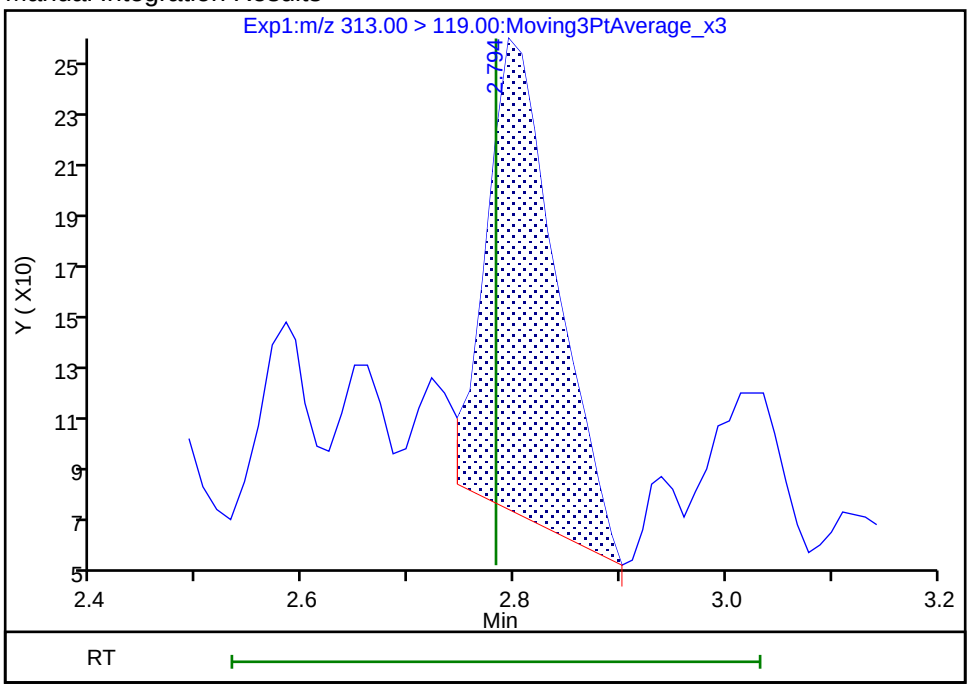
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.79
Area: 858
Amount: 0.009821
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:17:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

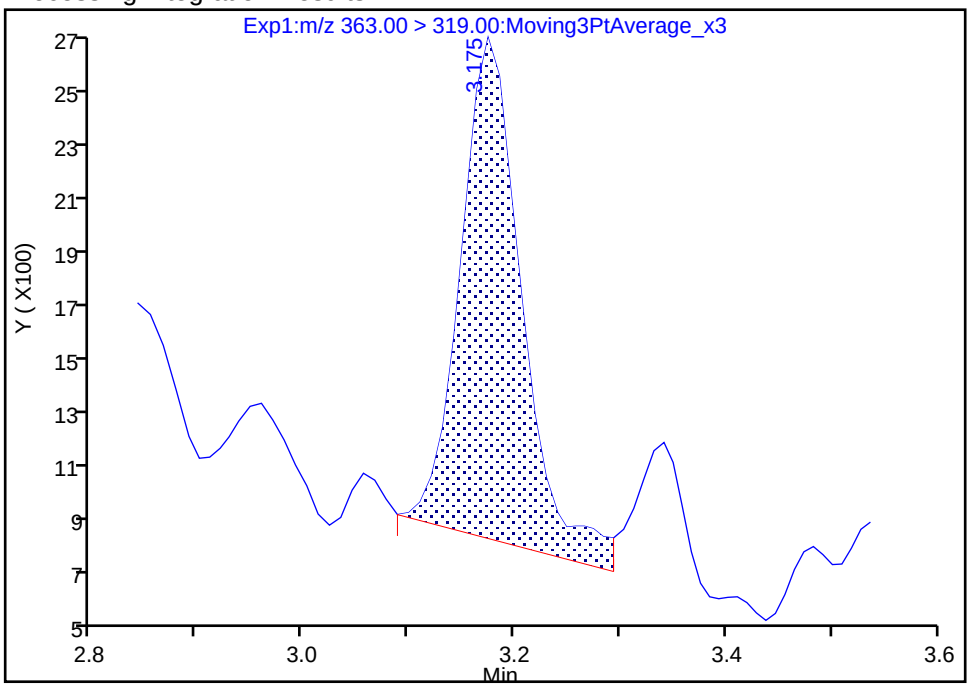
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

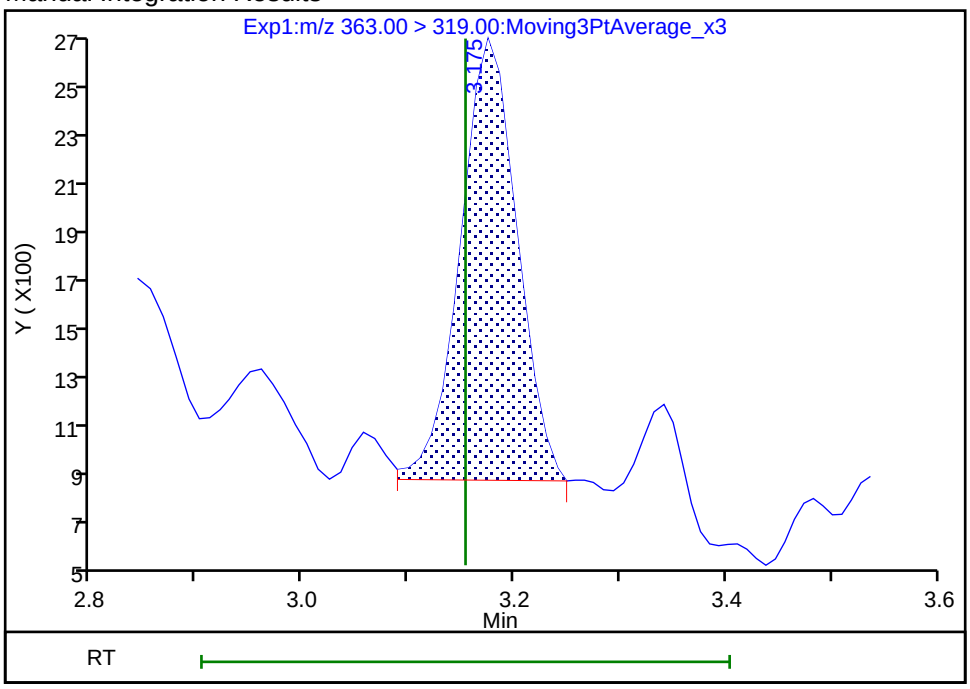
Processing Integration Results

RT: 3.17
Area: 7265
Amount: 0.006295
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 6562
Amount: 0.005686
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:18:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

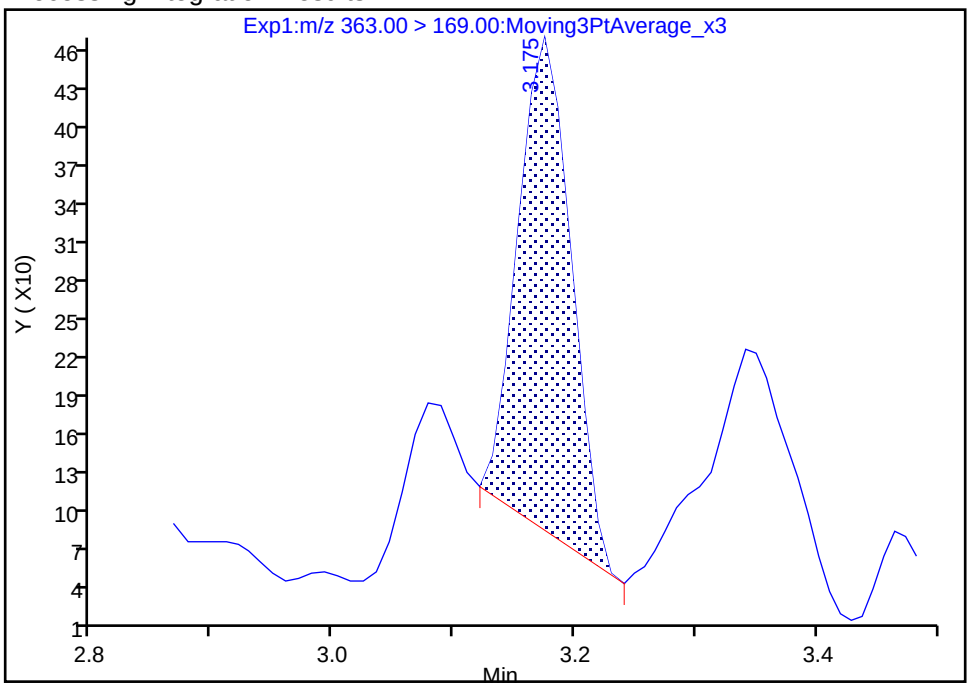
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

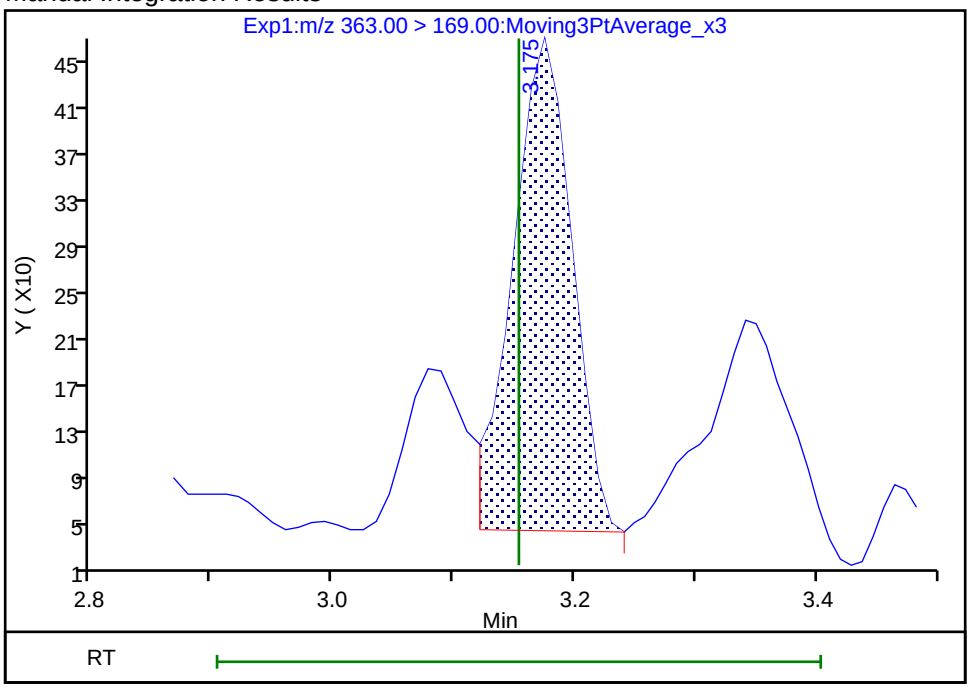
Processing Integration Results

RT: 3.17
Area: 1150
Amount: 0.006295
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 1408
Amount: 0.005686
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:18:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

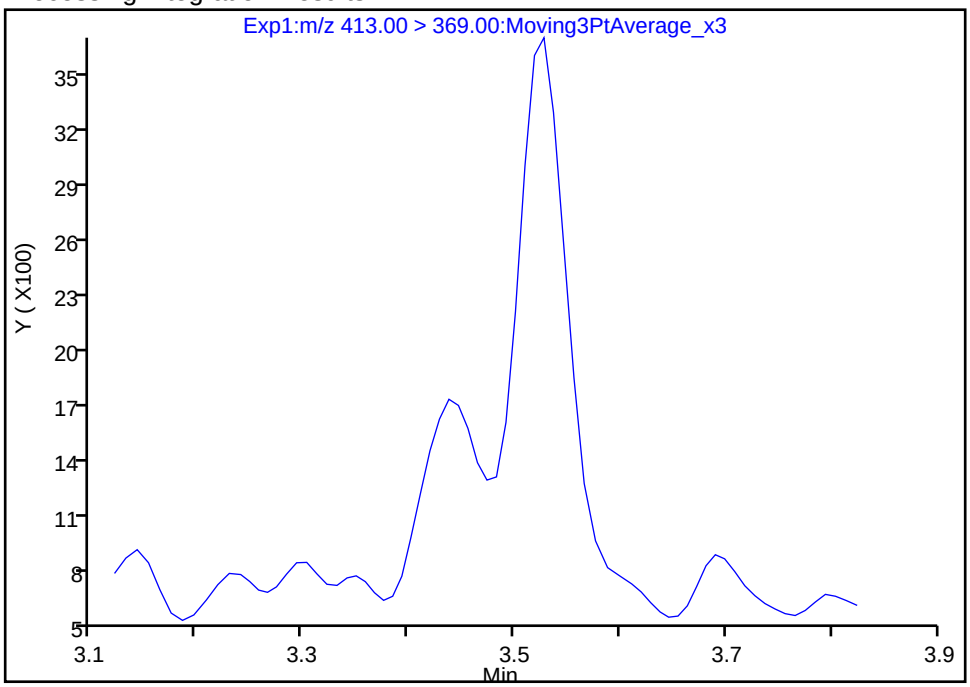
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

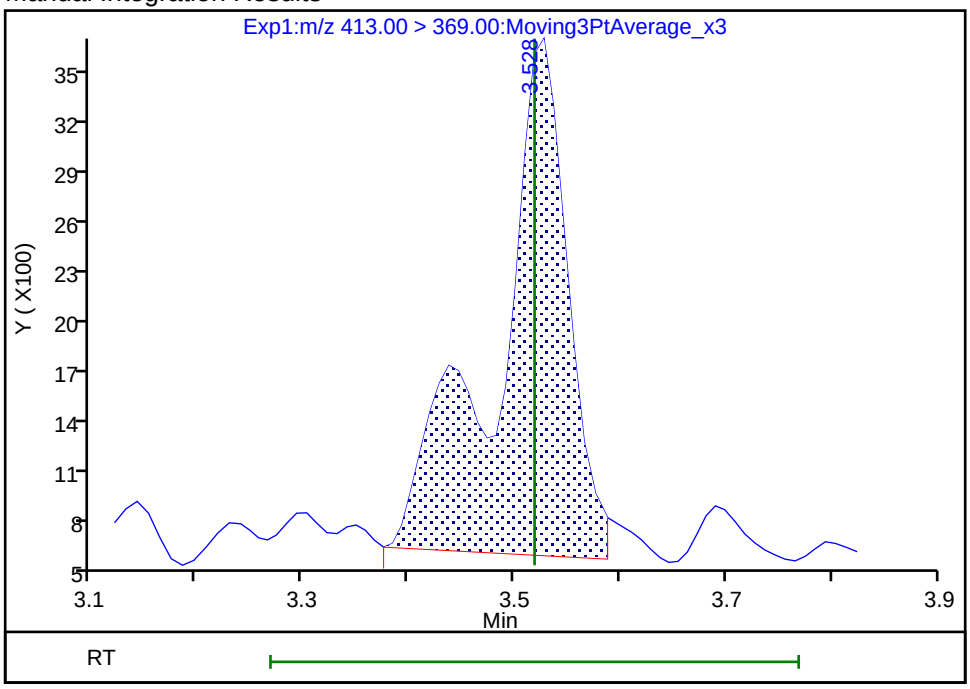
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 14418
Amount: 0.011819
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:19:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

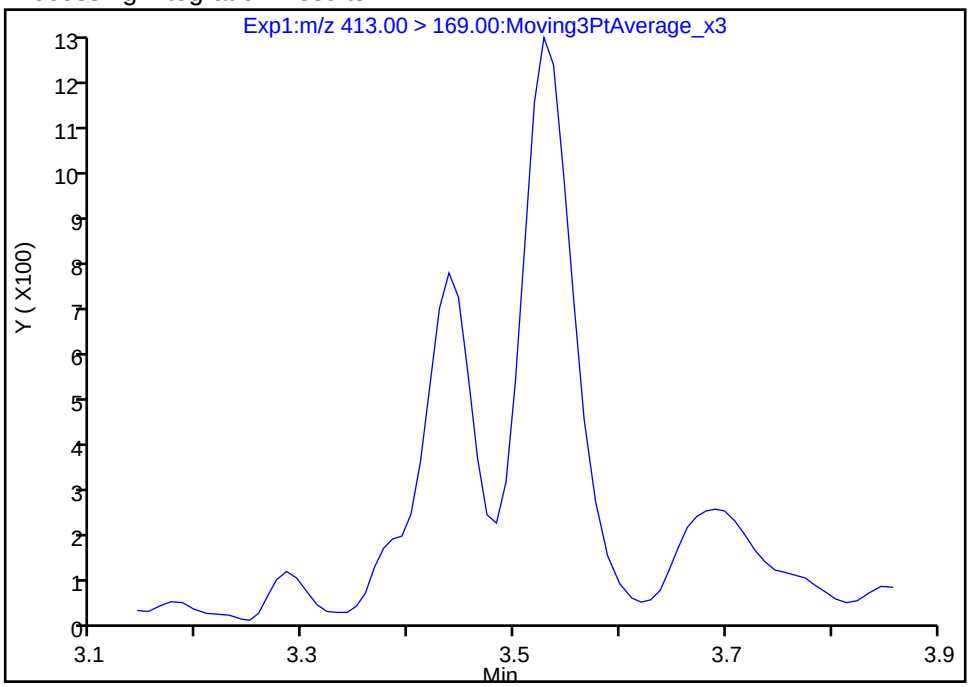
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

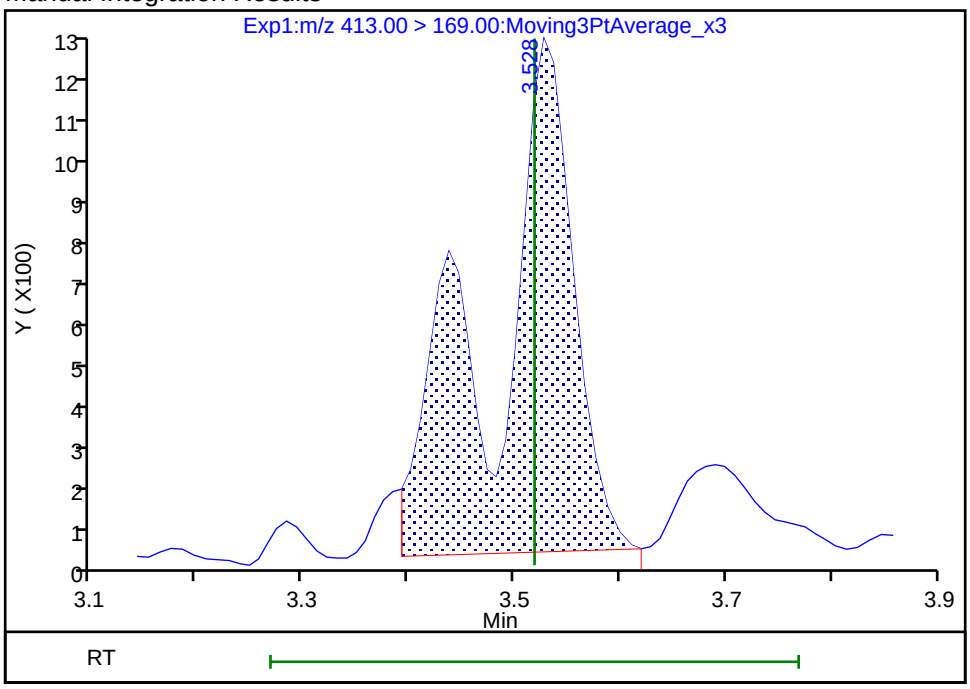
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 6469
Amount: 0.011819
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:19:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

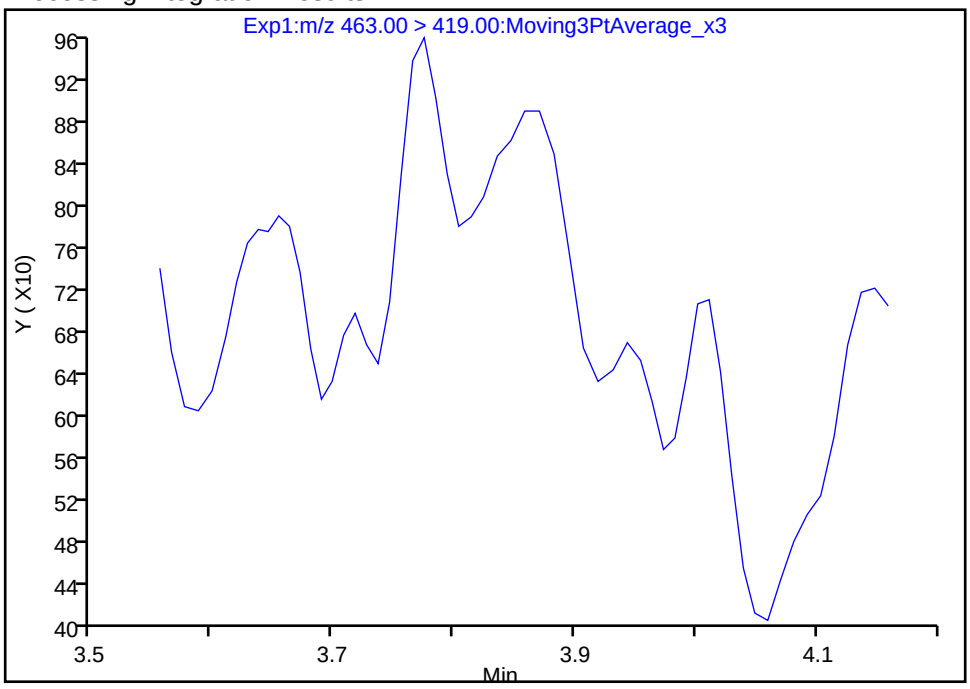
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

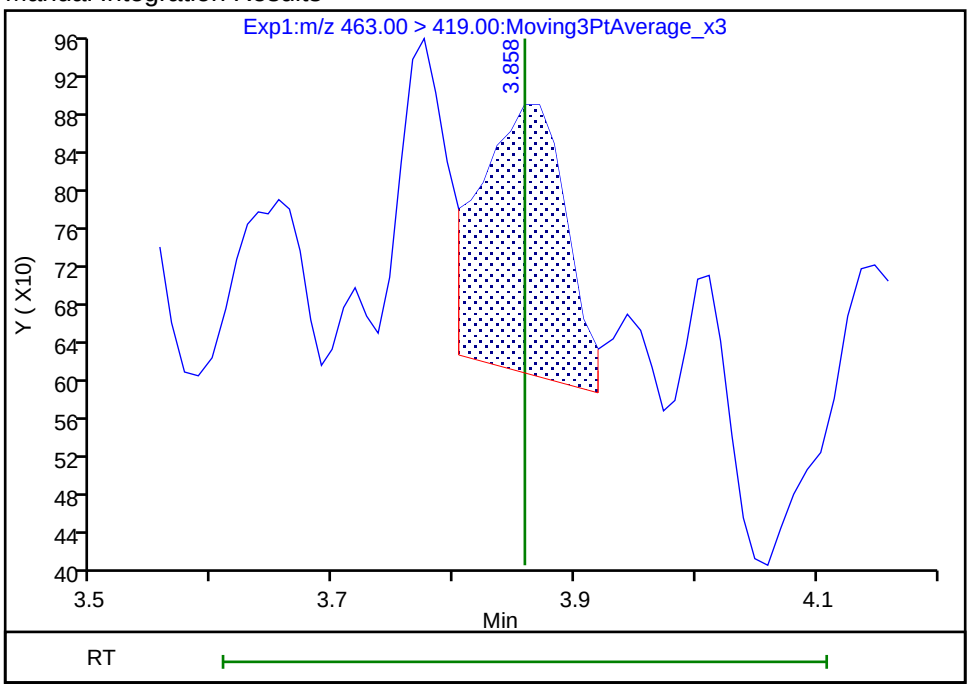
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.86
Area: 1382
Amount: 0.001414
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:20:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

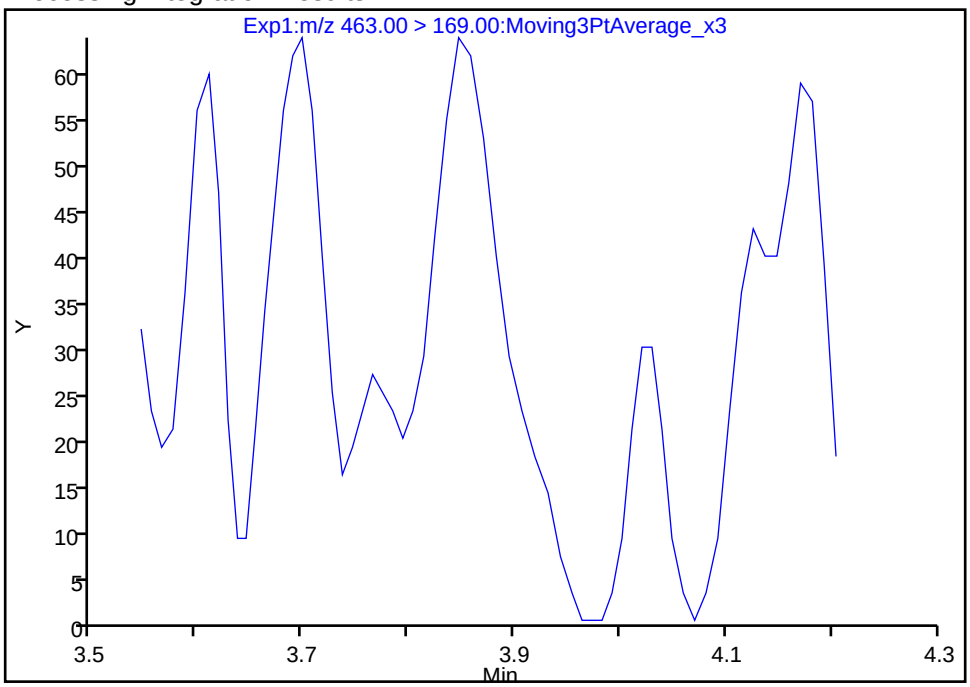
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

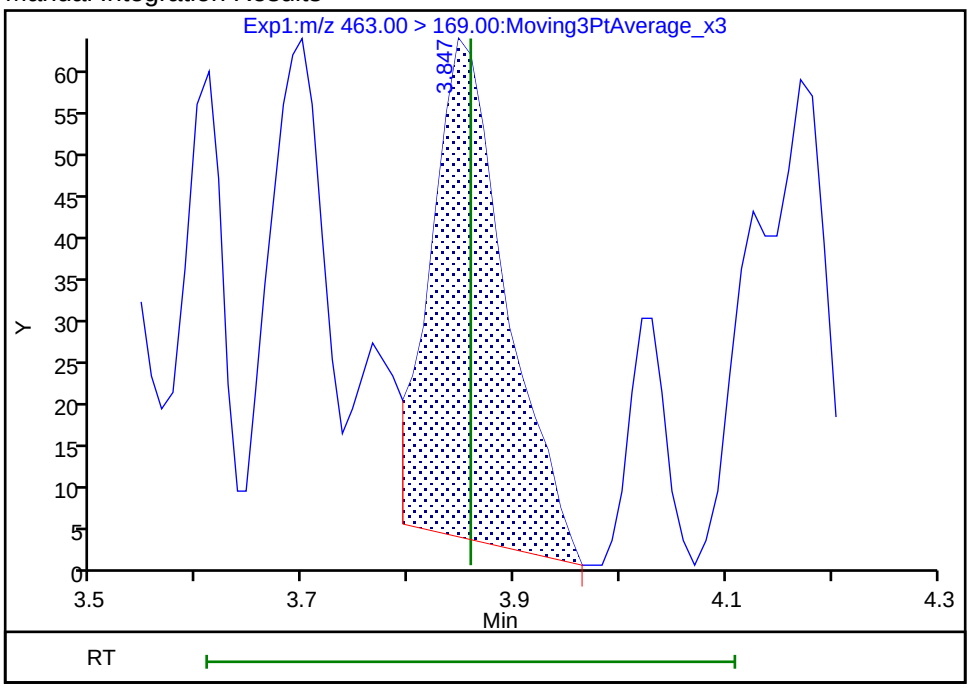
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.85
Area: 299
Amount: 0.001414
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:20:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

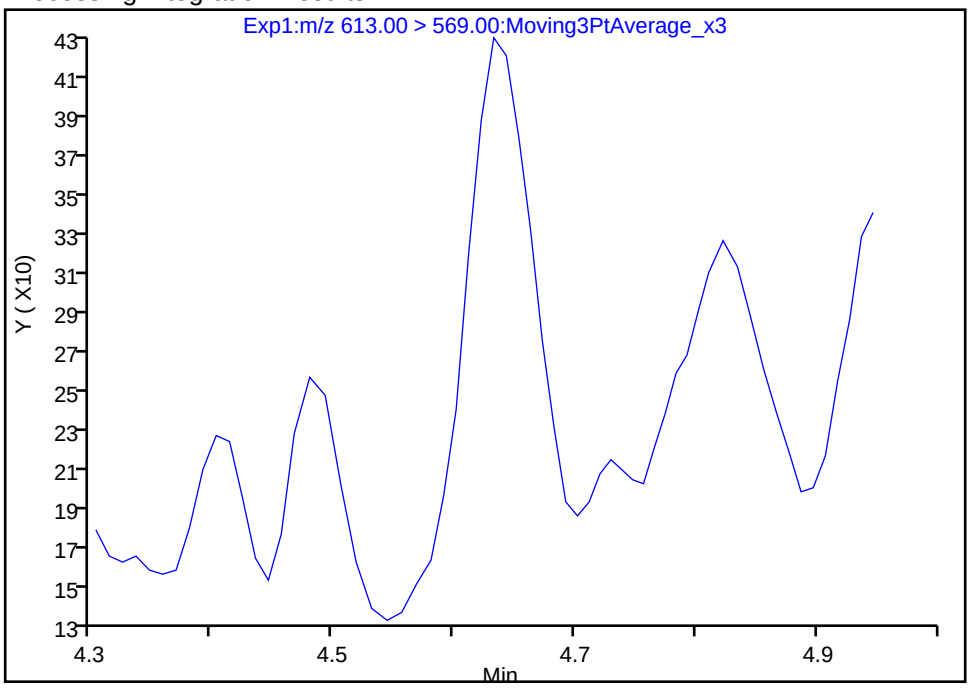
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

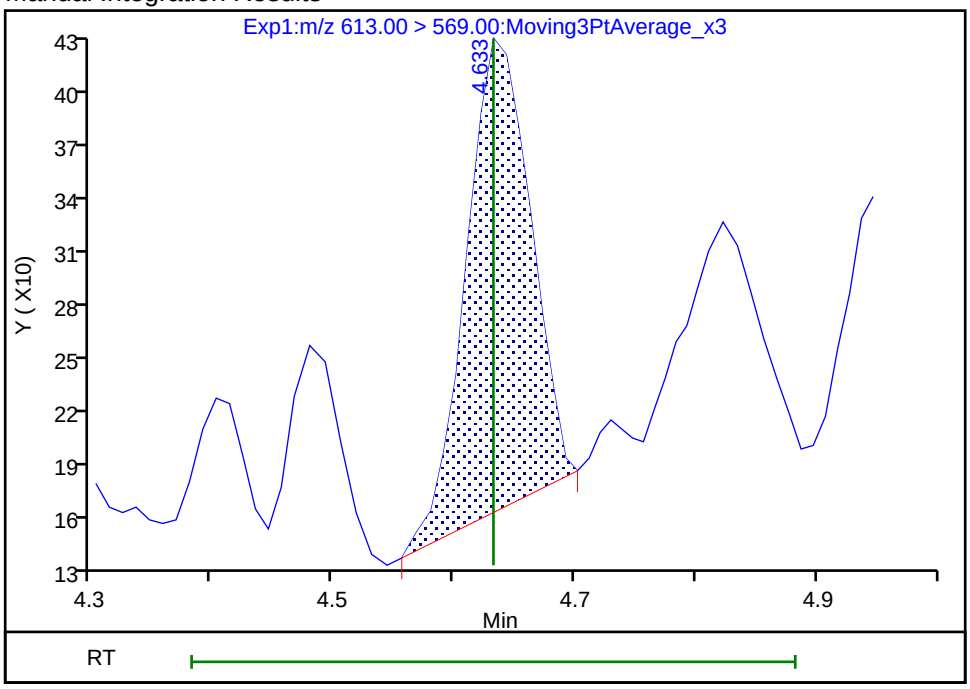
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.63
Area: 964
Amount: 0.001450
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:21:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

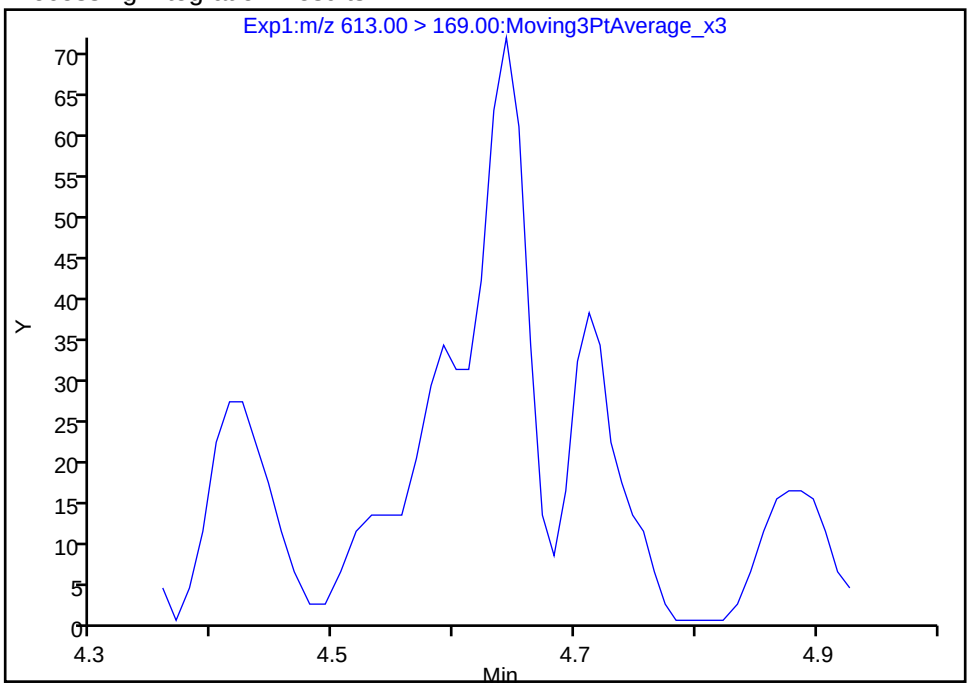
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

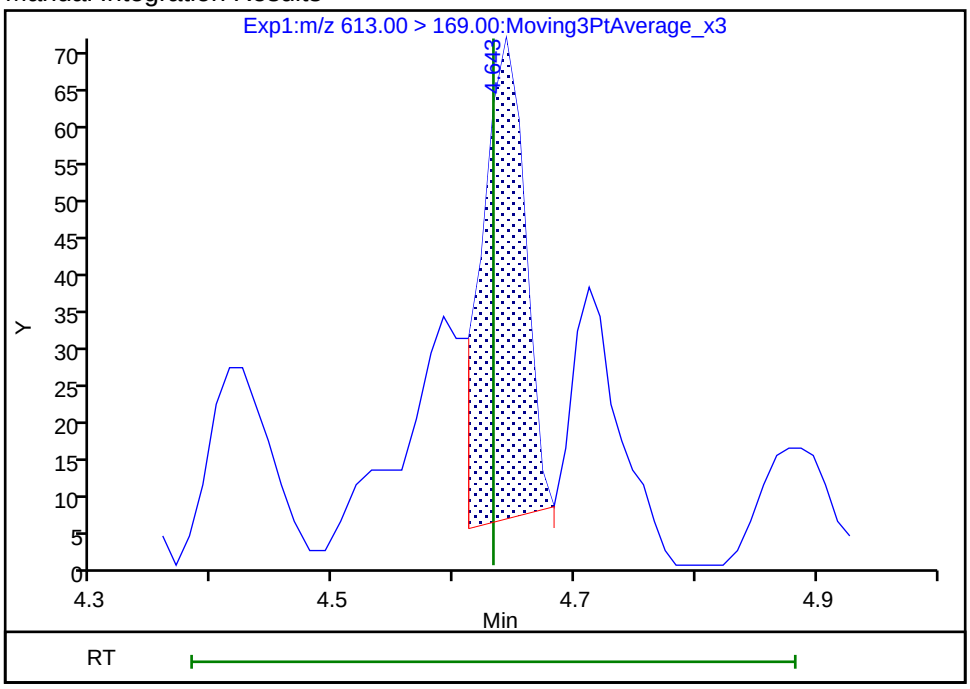
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 159
Amount: 0.001450
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:21:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

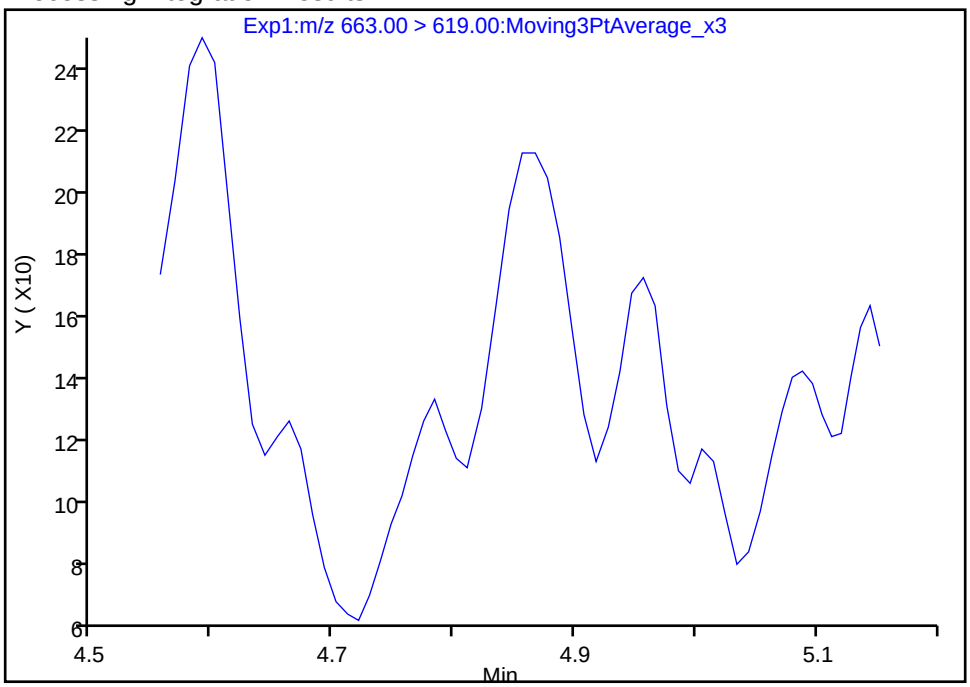
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d		
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11
Client ID:	DUP-080321		
Operator ID:	lc812tech	ALS Bottle#:	15 Worklist Smp#: 18
Injection Vol:	20.0 ul	Dil. 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

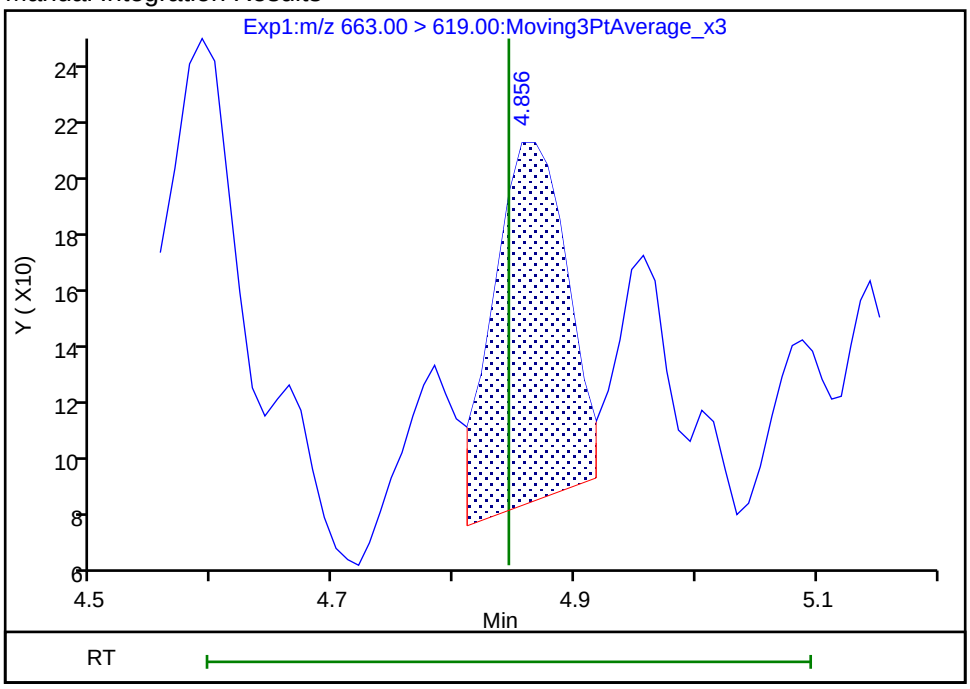
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 539
Amount: 0.000941
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:21:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

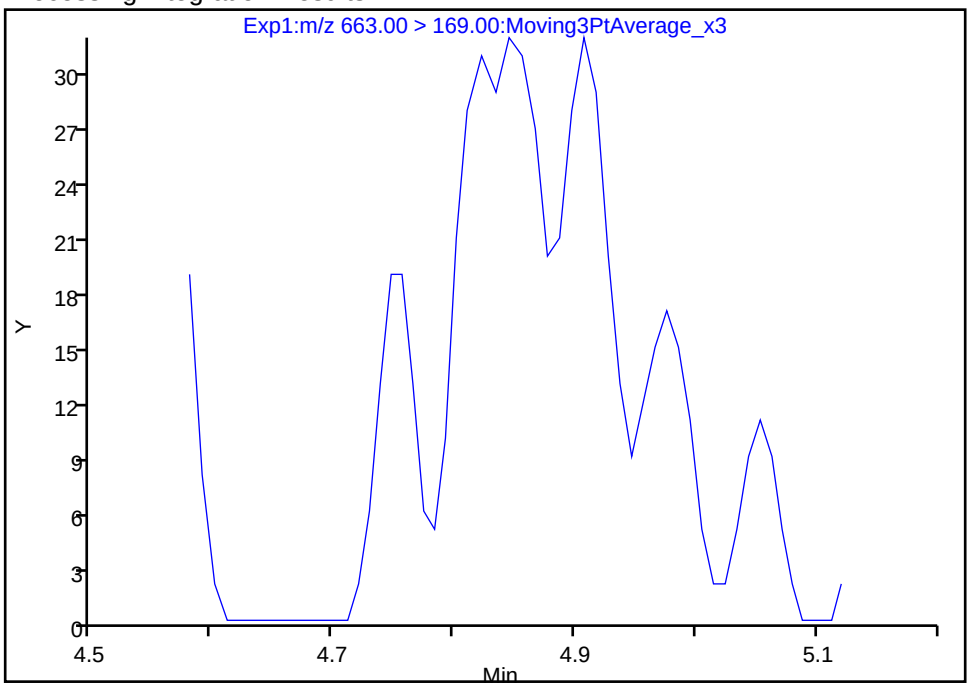
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

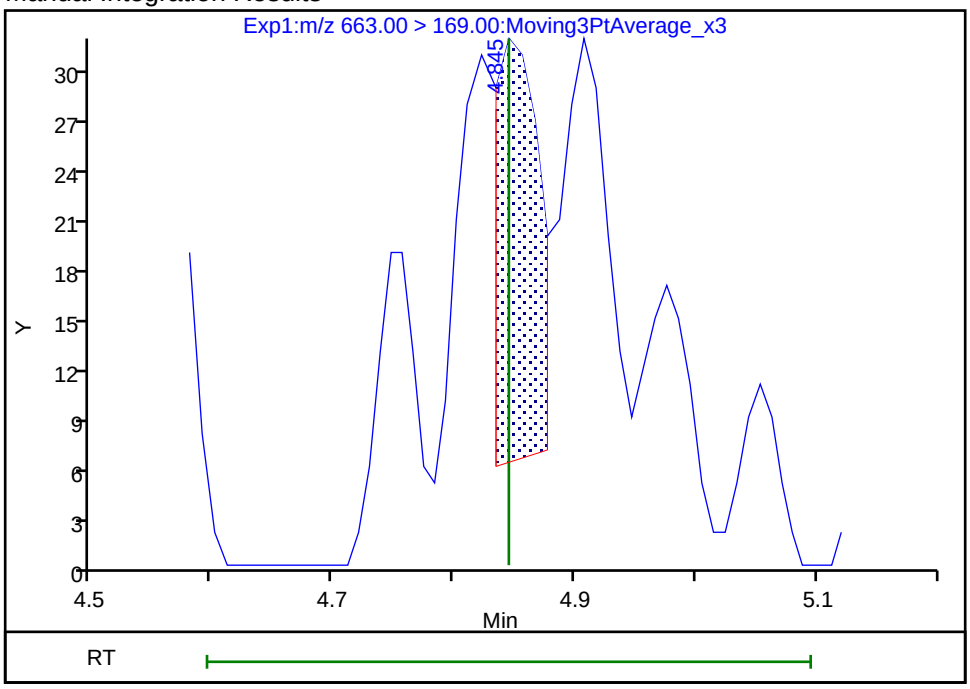
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 57
Amount: 0.000941
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:21:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

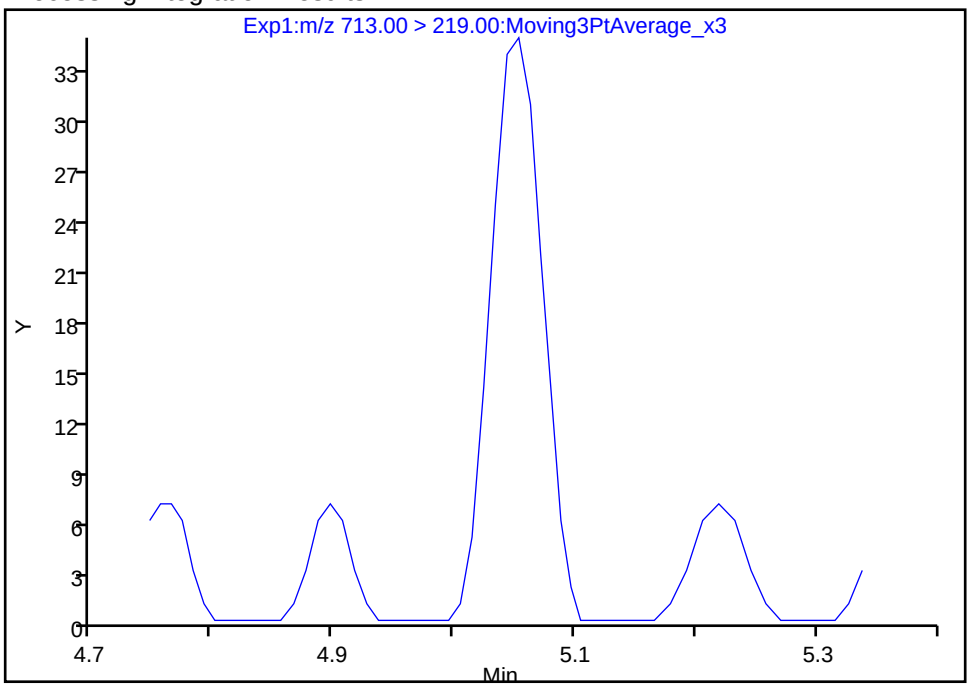
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Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

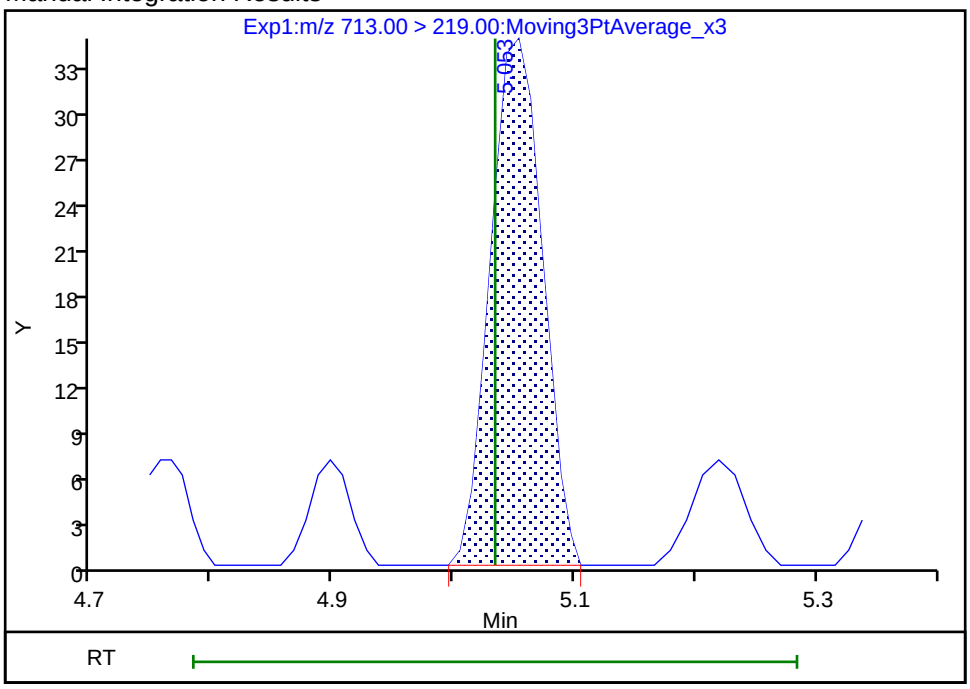
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.05
Area: 105
Amount: 0.001351
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:22:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

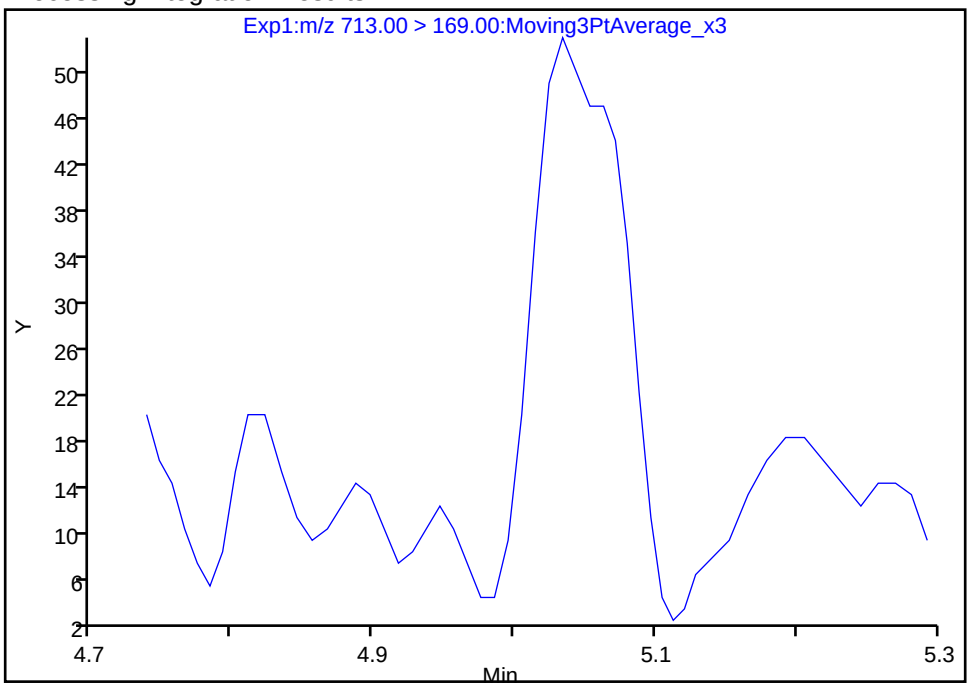
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

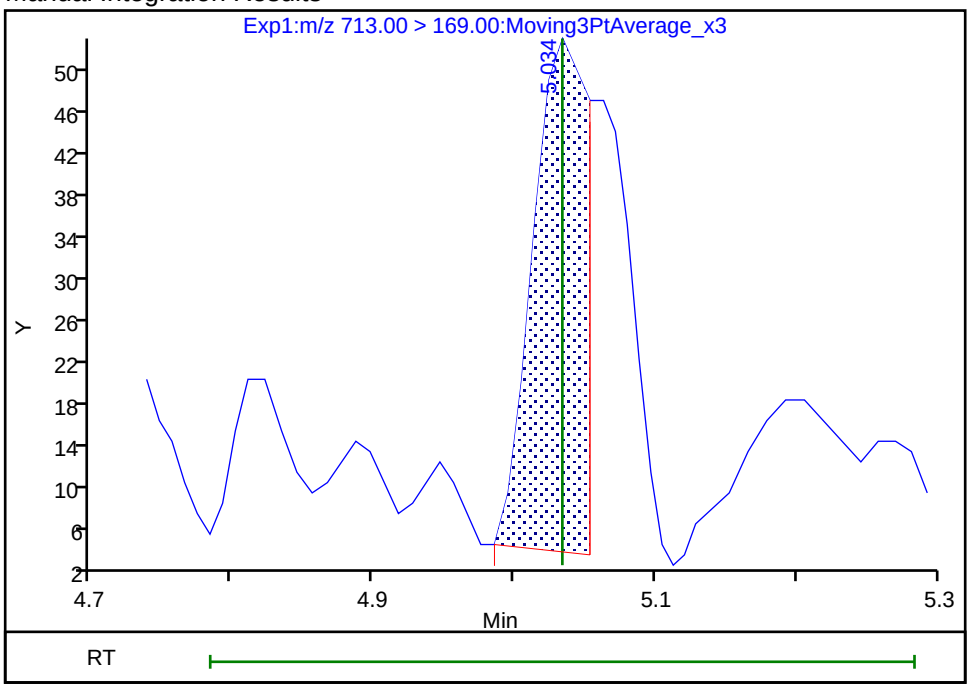
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 126
Amount: 0.001351
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:22:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

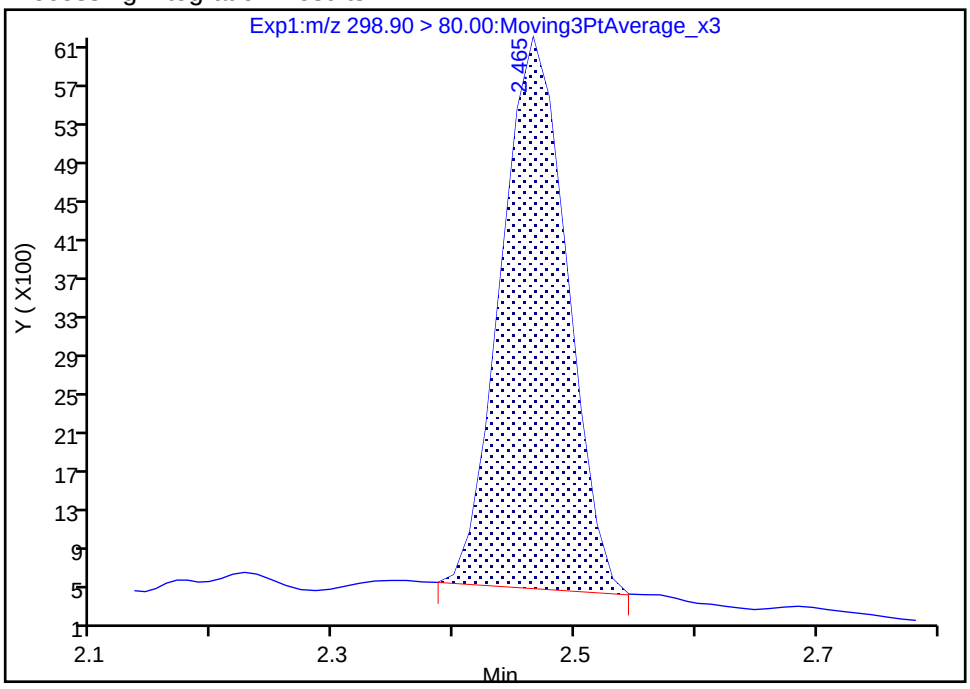
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

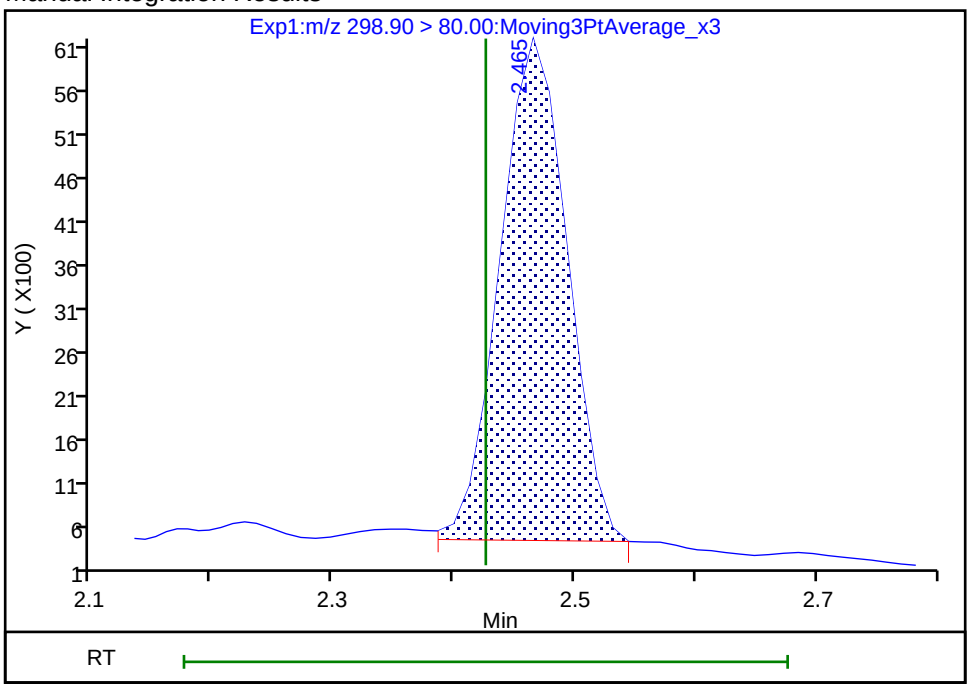
Processing Integration Results

RT: 2.47
Area: 21625
Amount: 0.018543
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 22046
Amount: 0.018904
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:17:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

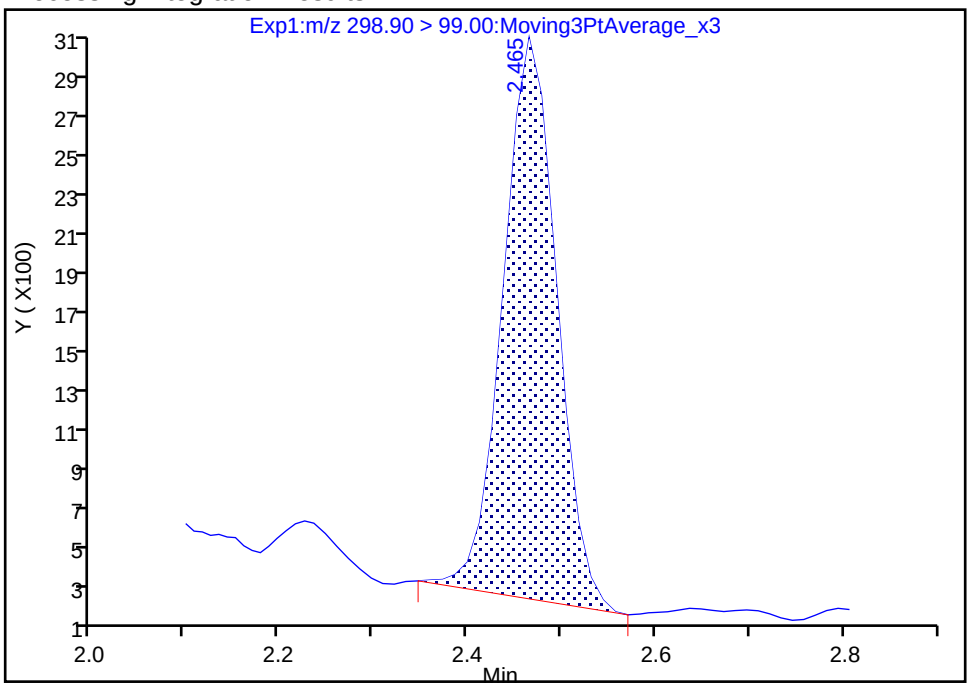
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

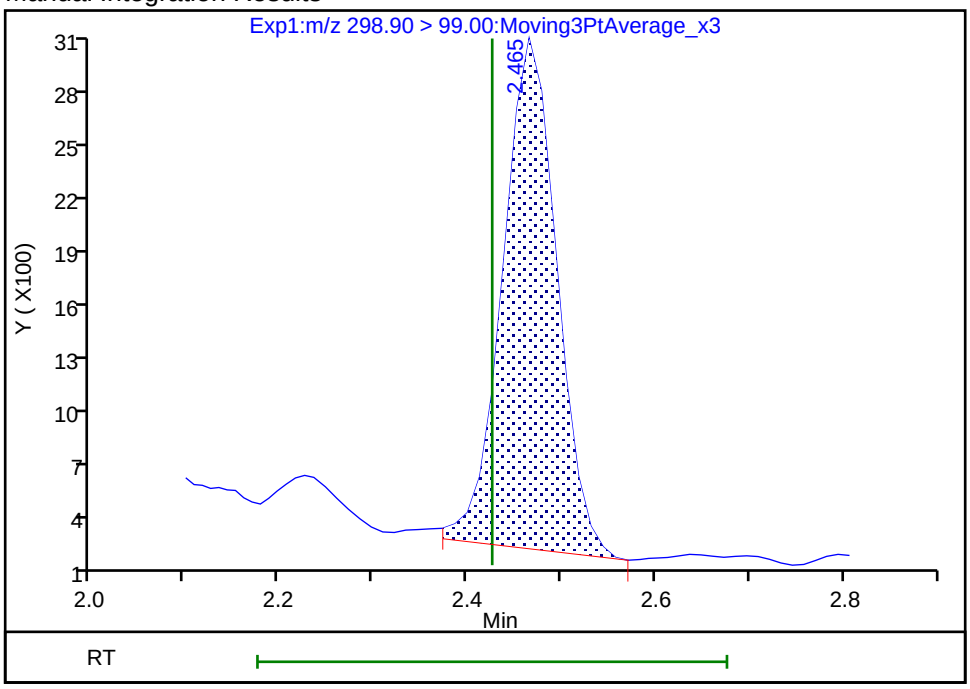
Processing Integration Results

RT: 2.47
Area: 10972
Amount: 0.018543
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 11130
Amount: 0.018904
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:17:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

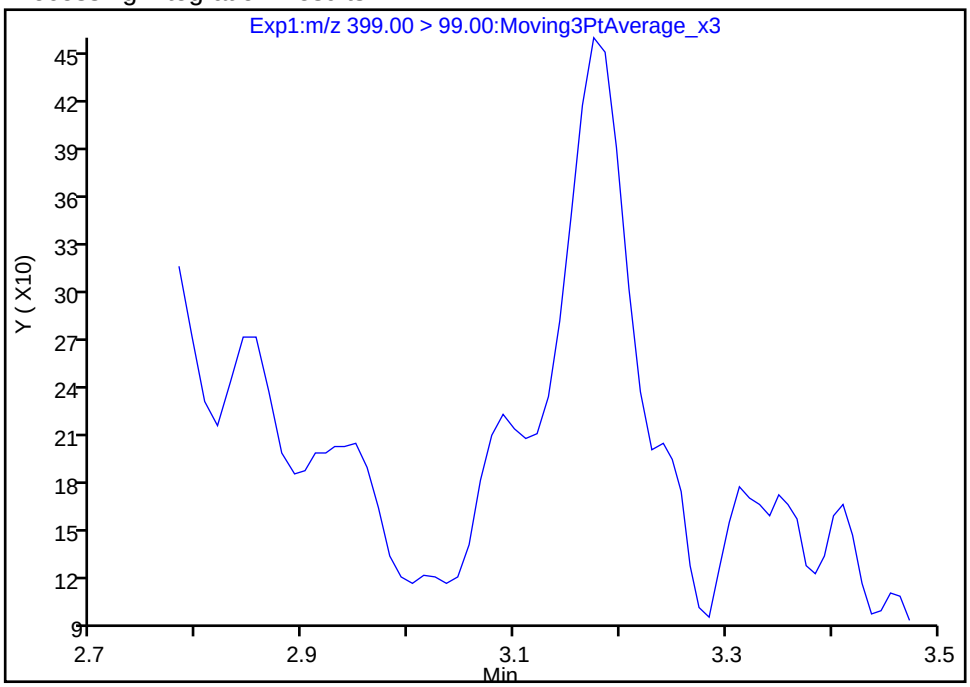
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

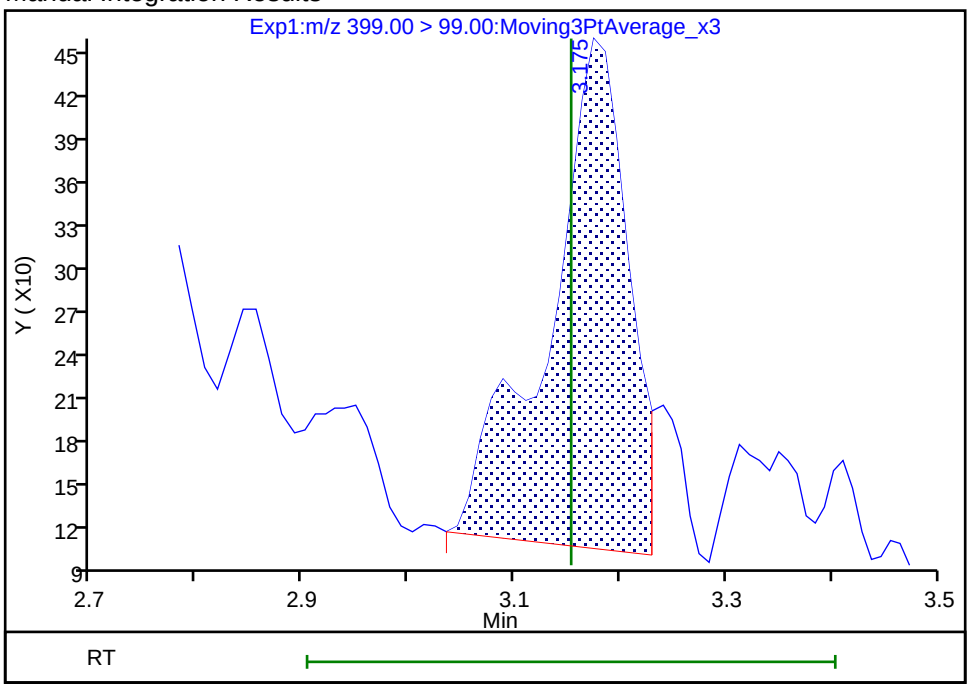
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 1819
Amount: 0.007388
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:17:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

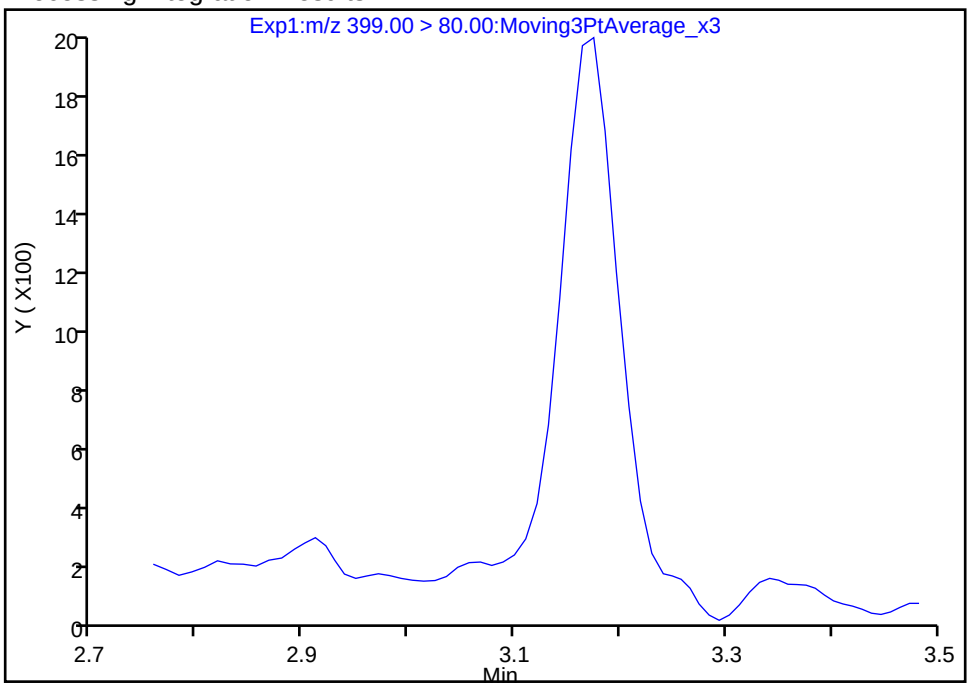
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

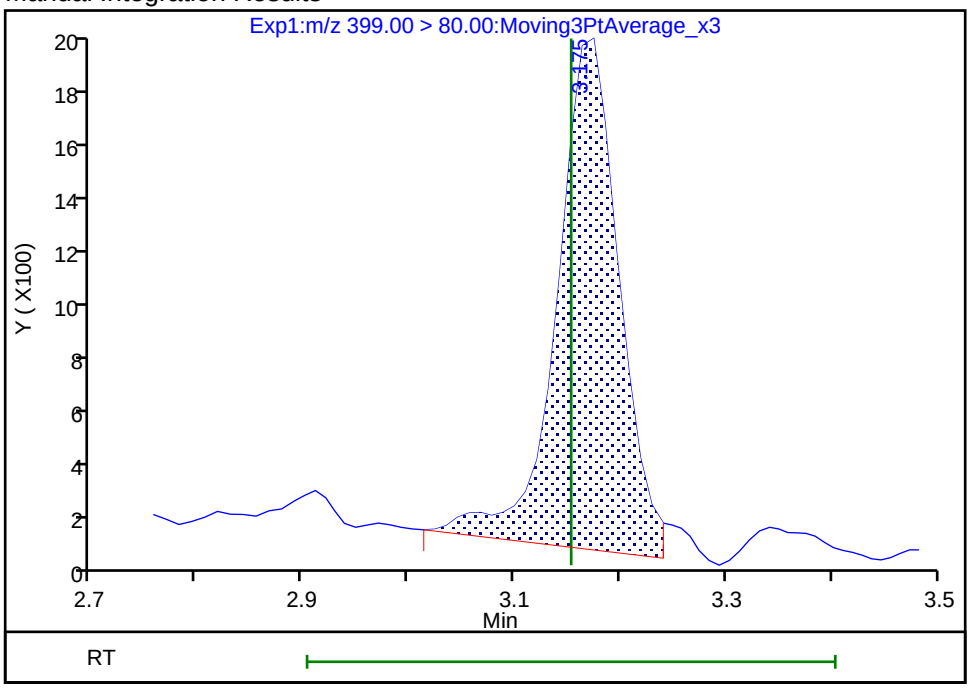
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 7495
Amount: 0.007388
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:17:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

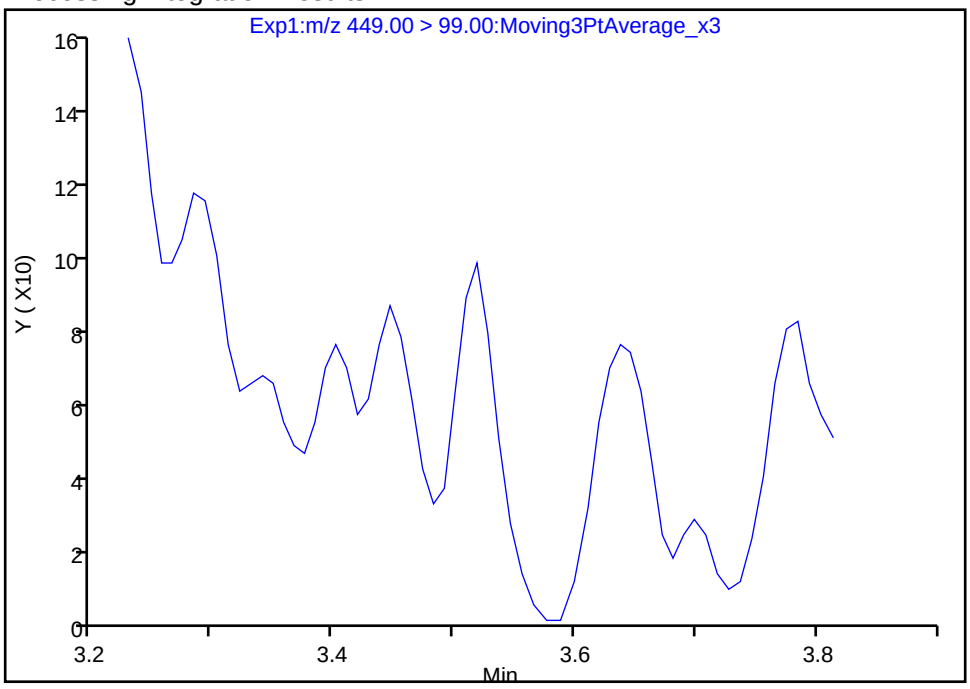
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

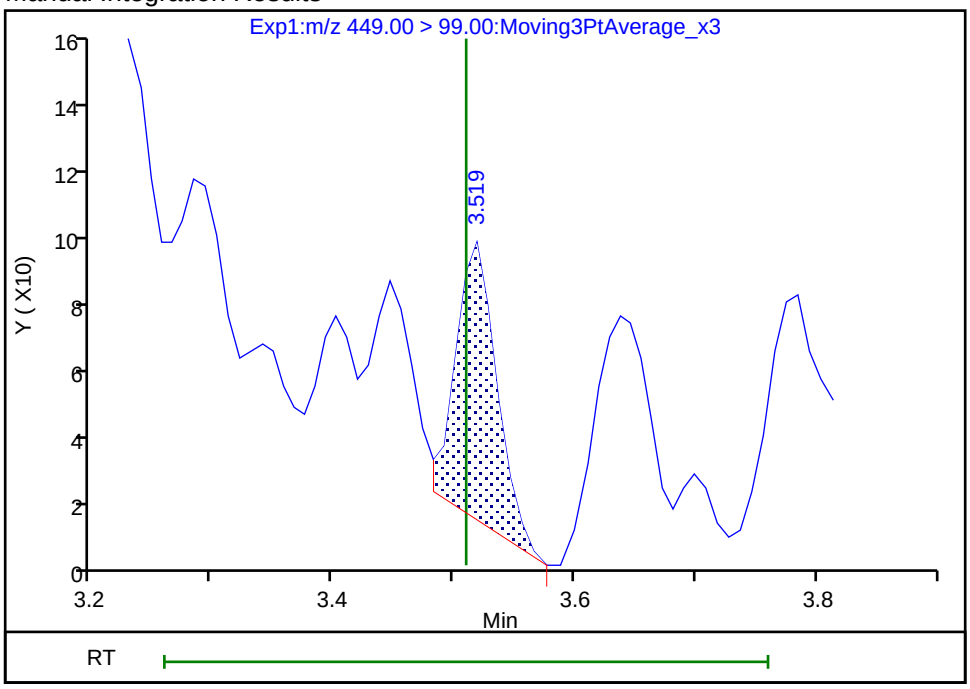
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 183
Amount: 0.000390
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:18:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

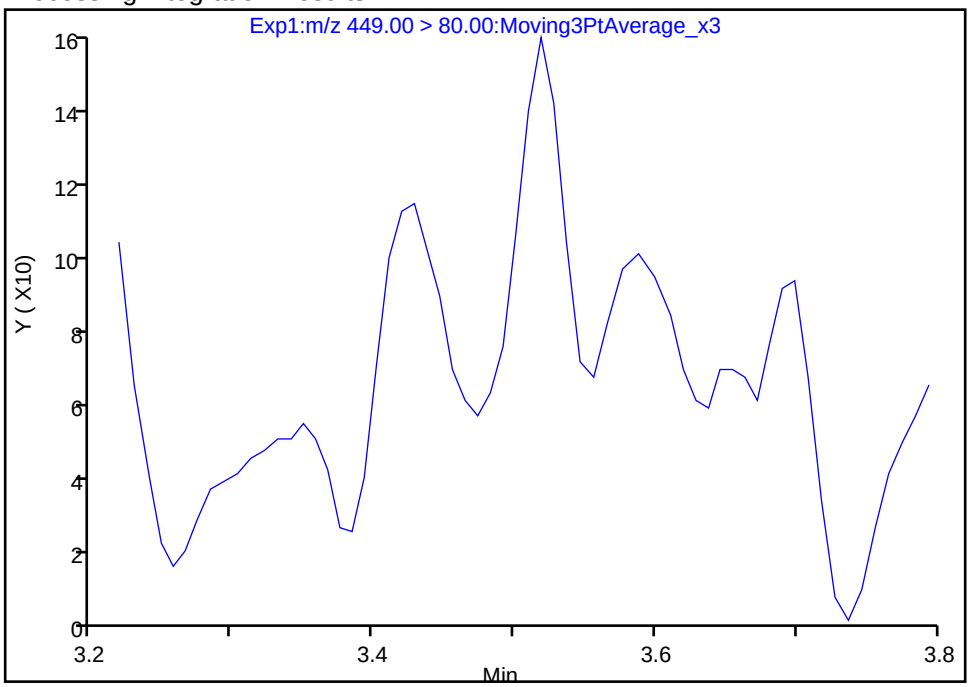
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

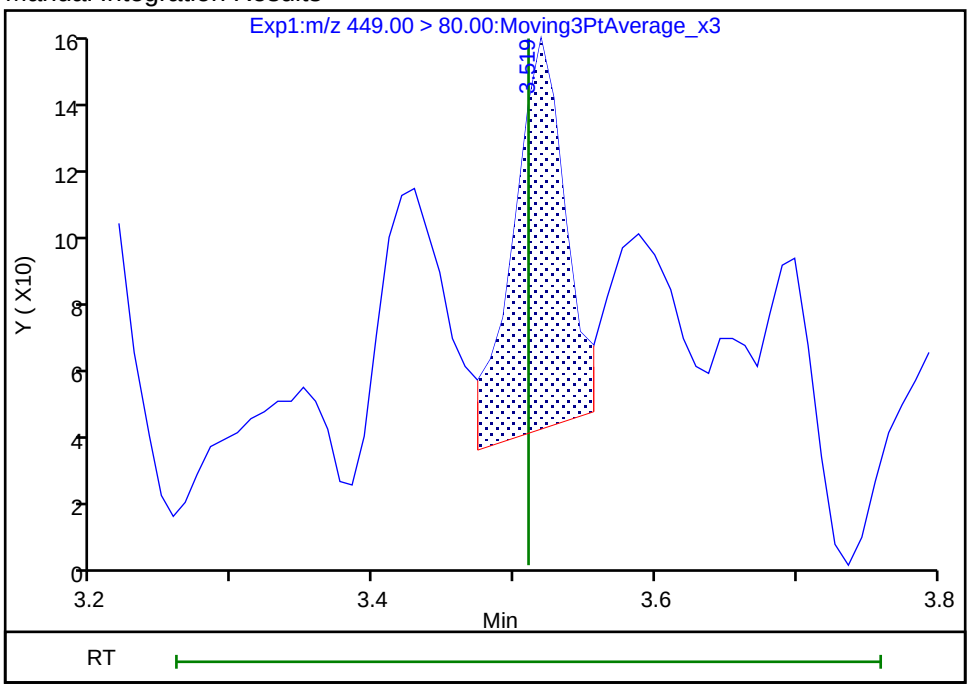
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 285
Amount: 0.000390
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:18:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

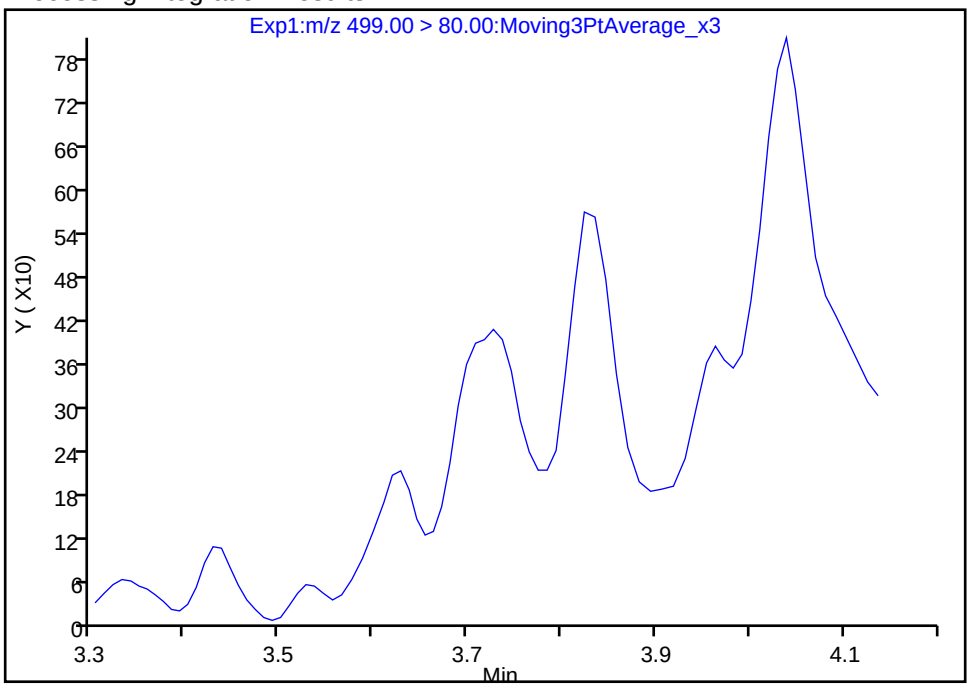
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

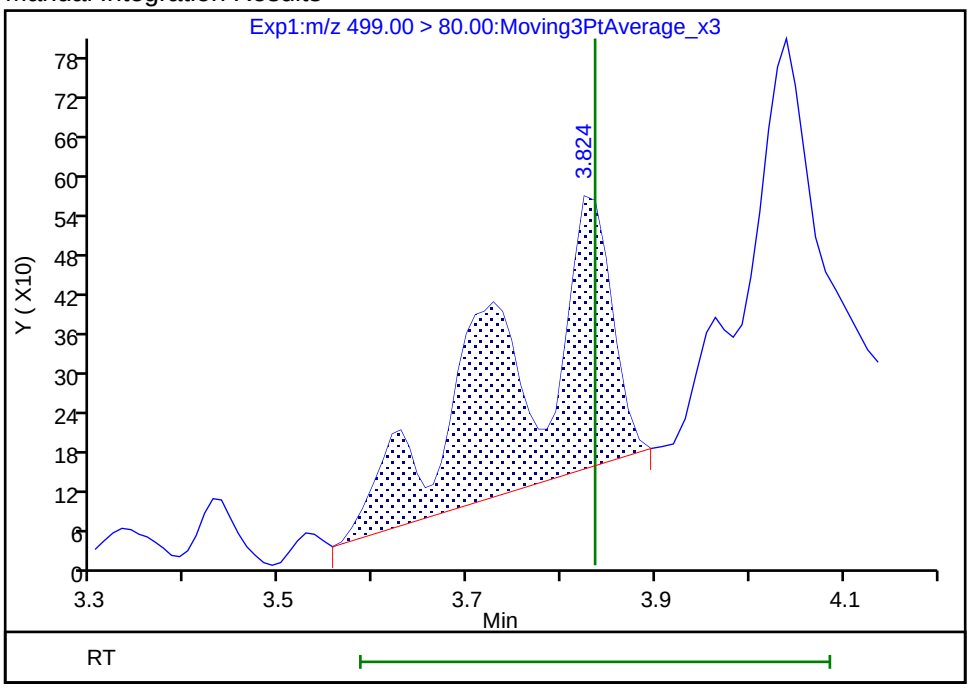
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 3172
Amount: 0.004828
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:19:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

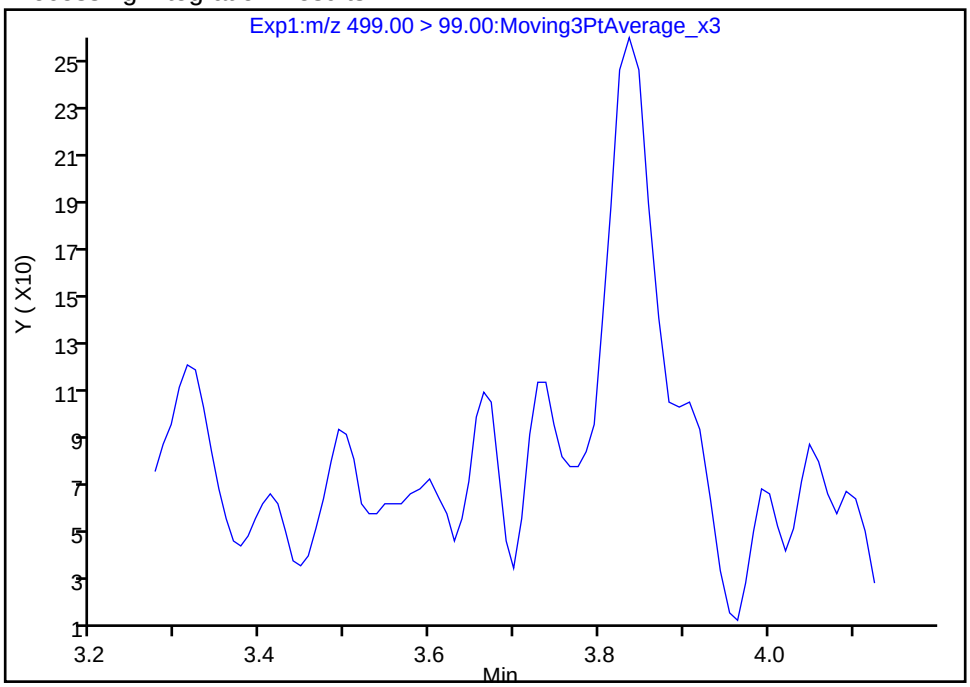
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

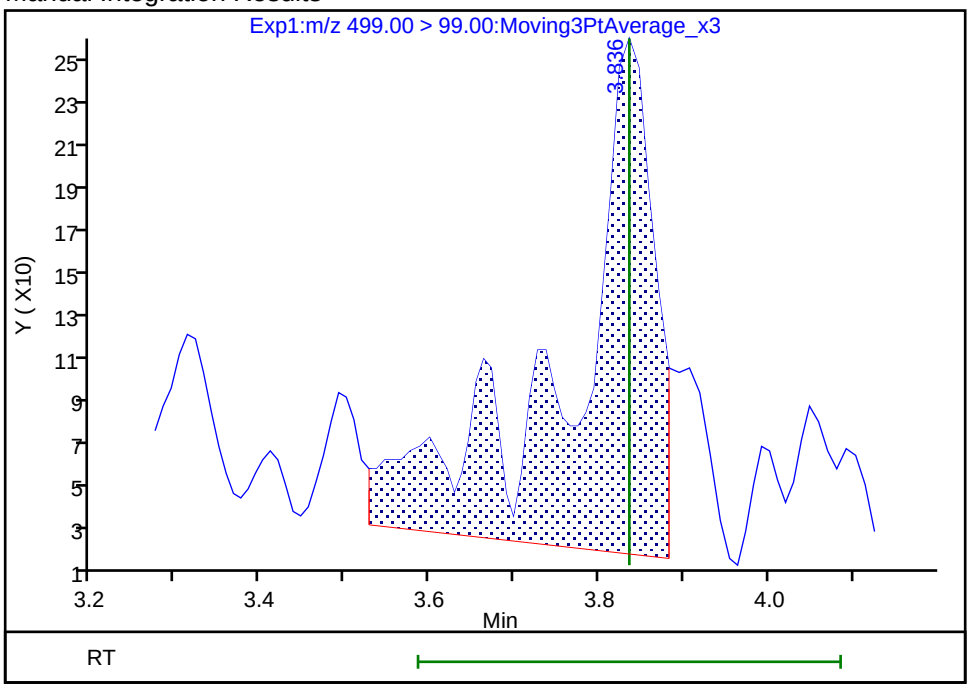
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.84
Area: 1607
Amount: 0.004828
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:33:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

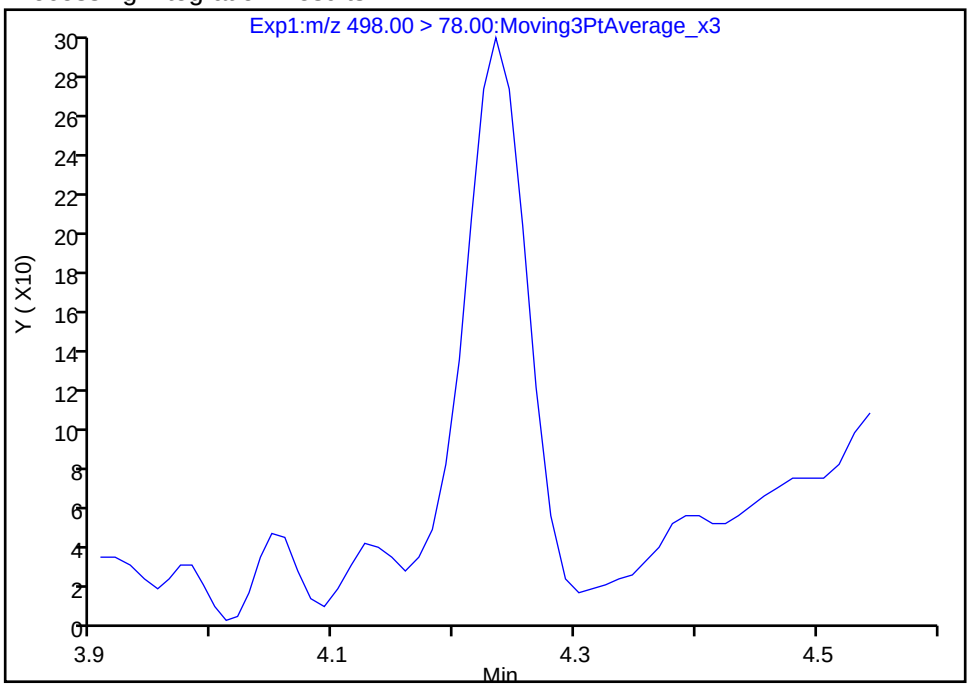
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

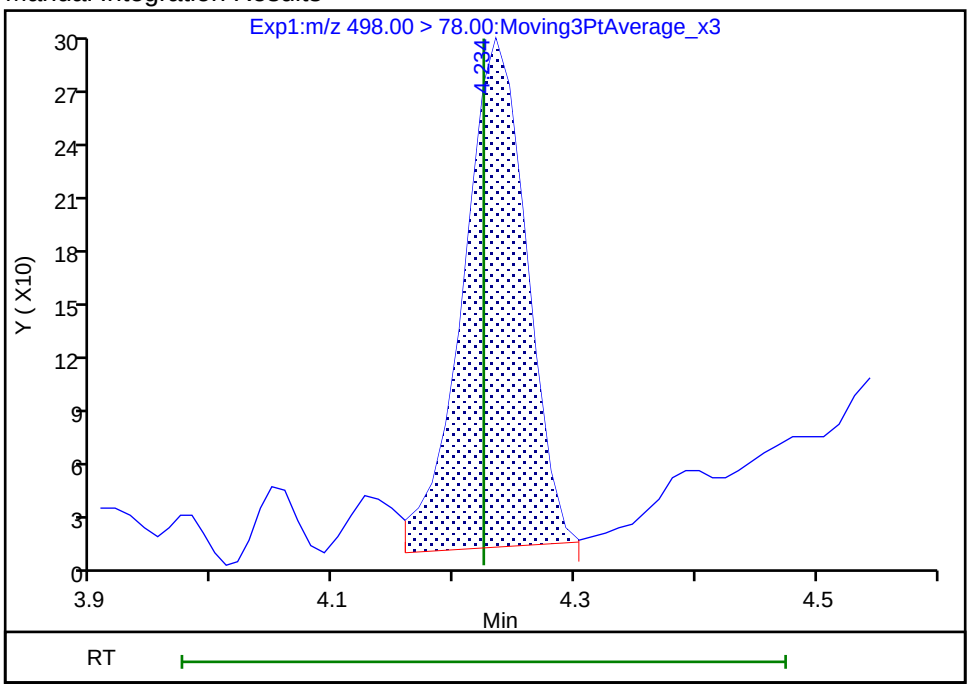
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 1038
Amount: 0.001074
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:33:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

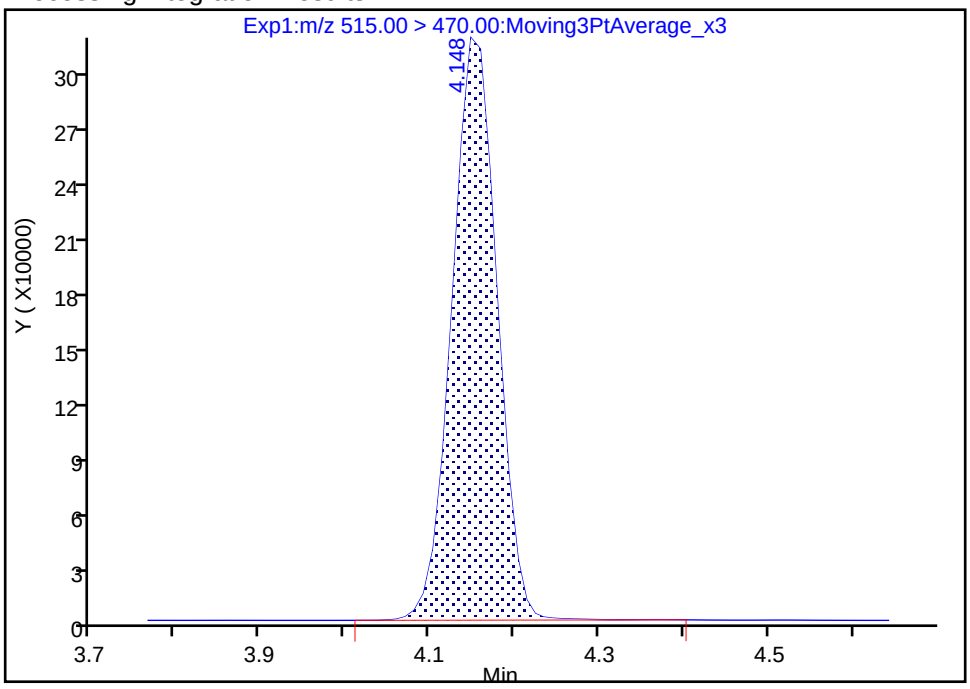
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

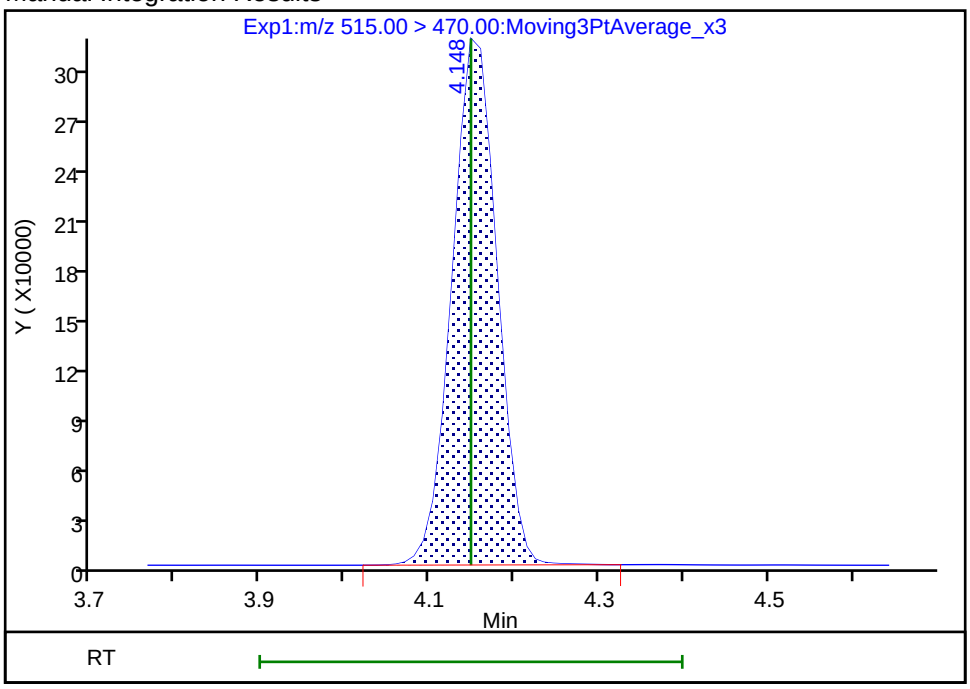
Processing Integration Results

RT: 4.15
Area: 1170554
Amount: 1.233587
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 1169217
Amount: 1.232178
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:16:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

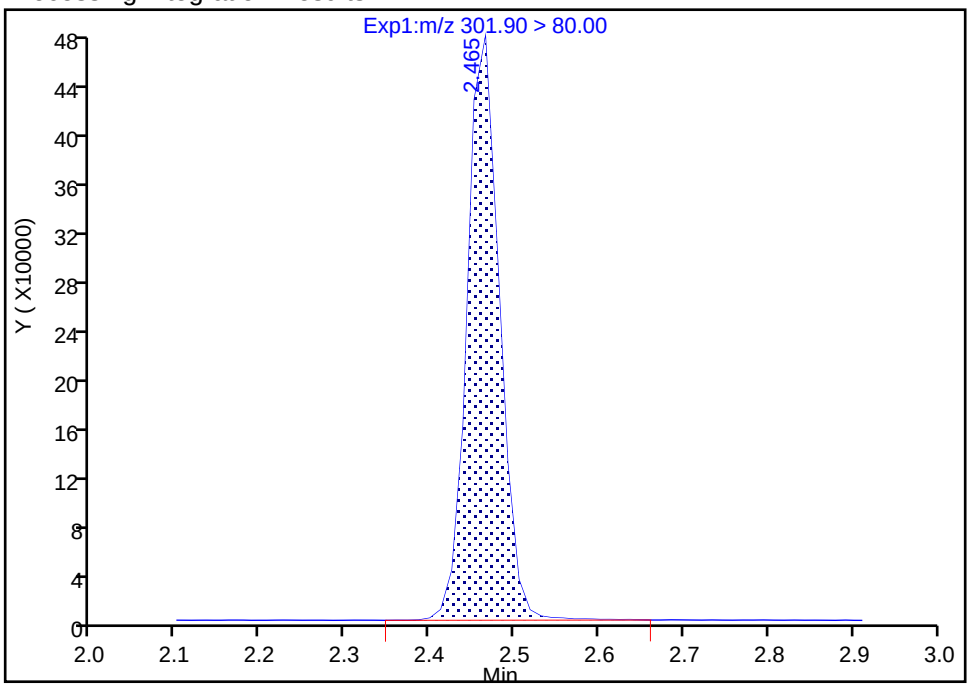
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

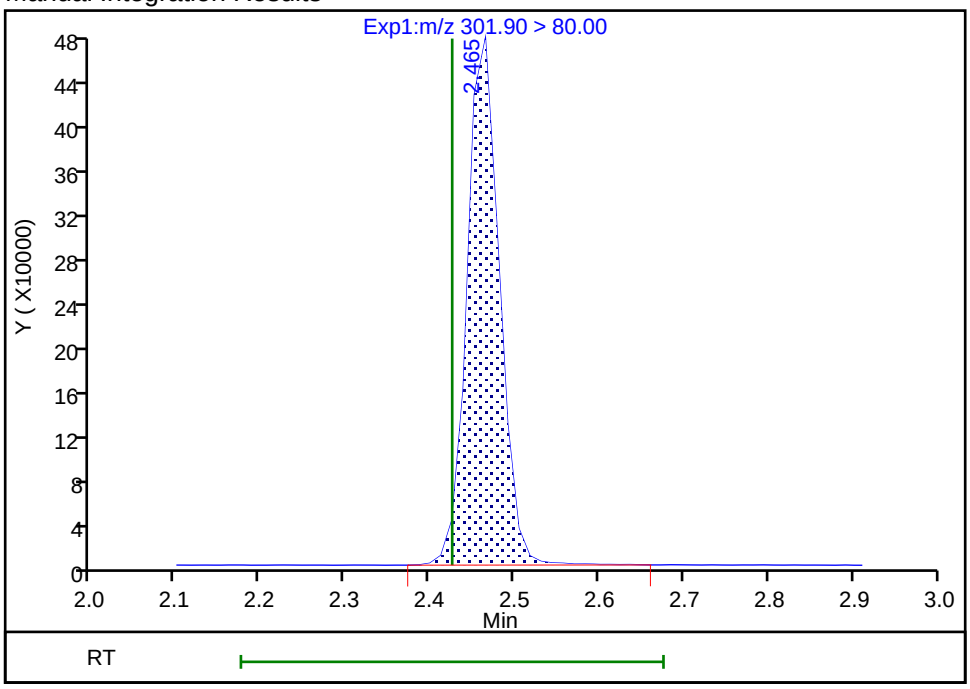
Processing Integration Results

RT: 2.47
Area: 1255479
Amount: 1.226714
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1255153
Amount: 1.226396
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:15:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

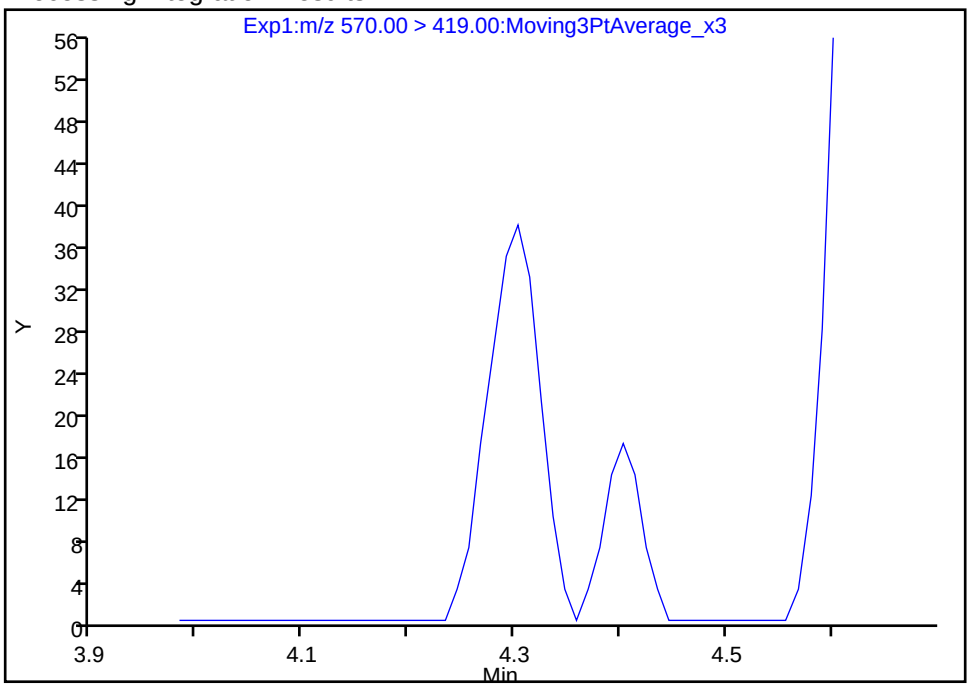
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

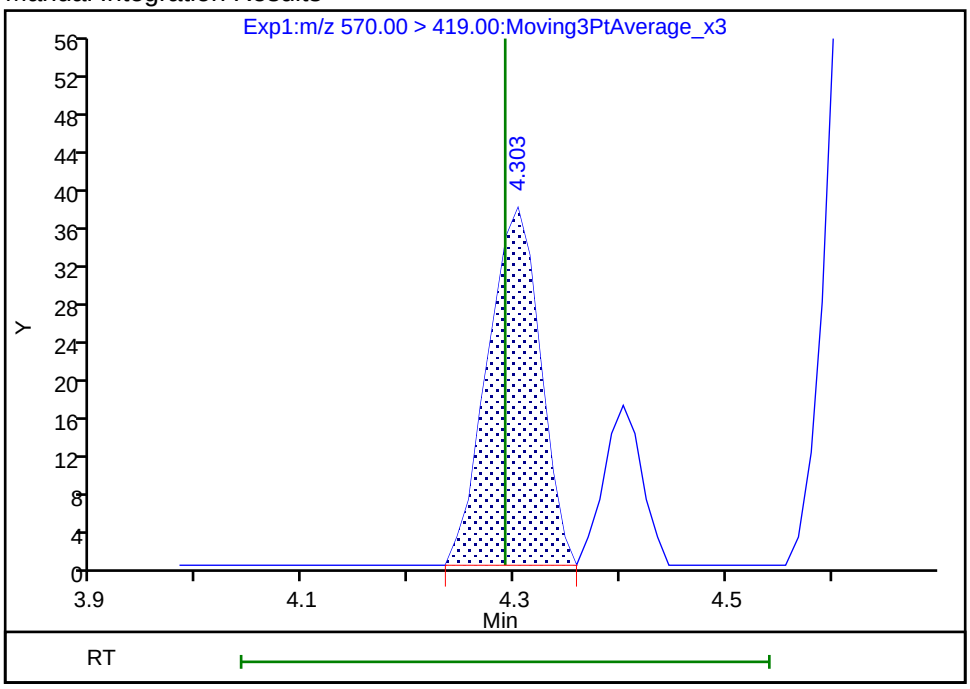
Not Detected
Expected RT: 4.29

Processing Integration Results



Manual Integration Results

RT: 4.30
Area: 131
Amount: 0.002452
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:21:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

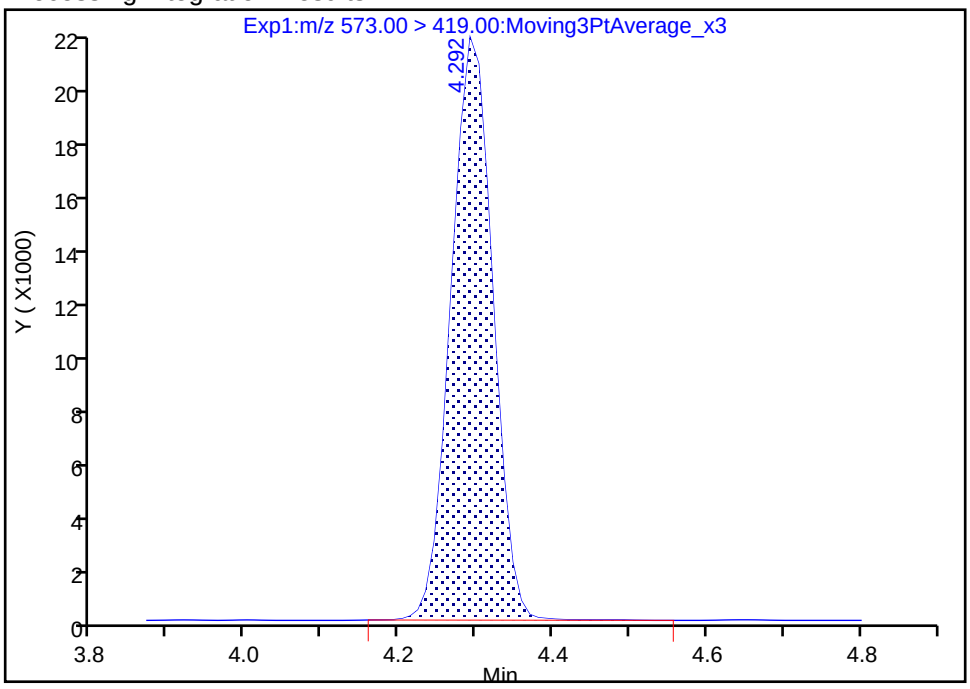
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

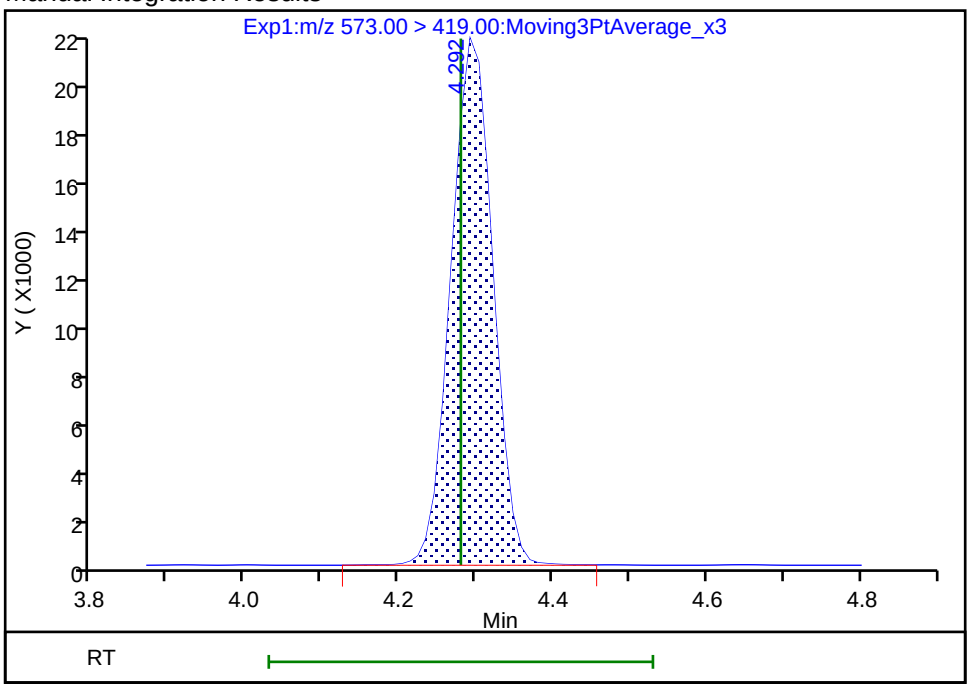
Processing Integration Results

RT: 4.29
Area: 80195
Amount: 1.149164
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 80325
Amount: 1.151027
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:16:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

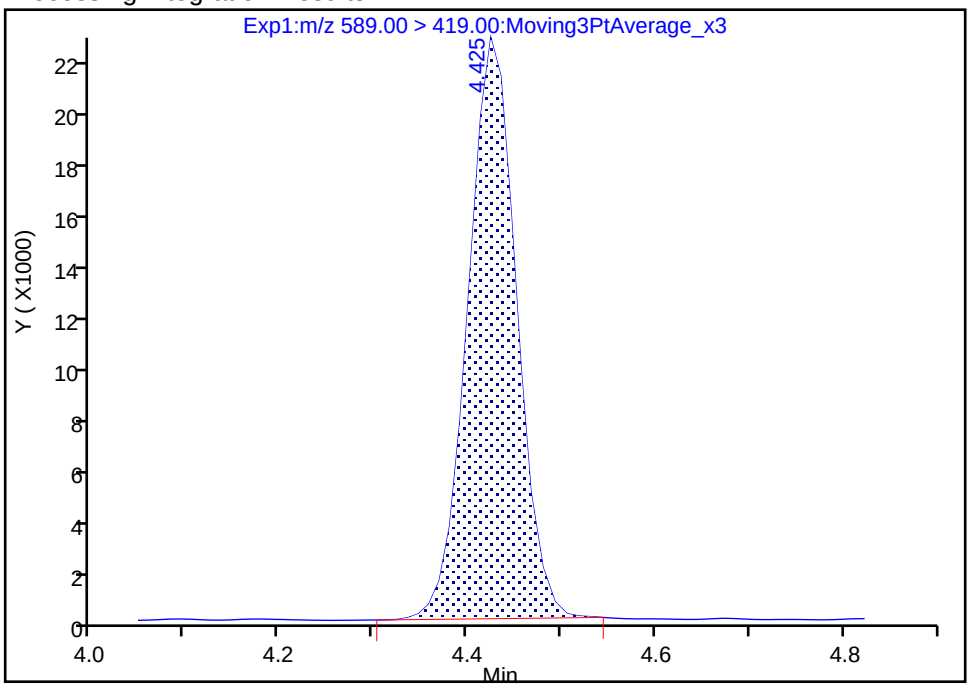
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

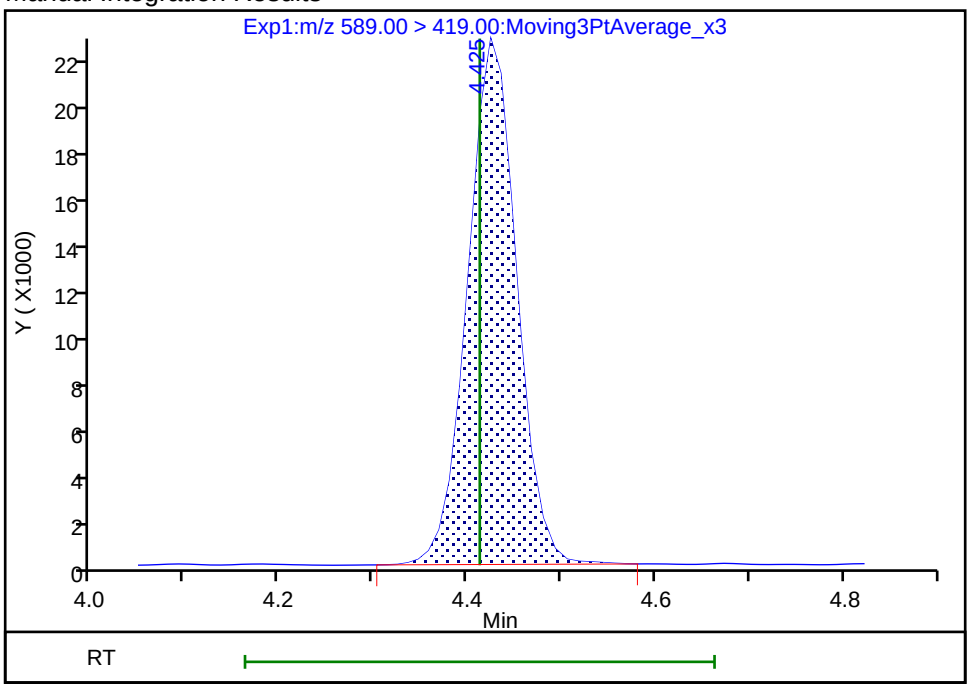
Processing Integration Results

RT: 4.42
Area: 81942
Amount: 1.127991
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 82449
Amount: 1.134970
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:16:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

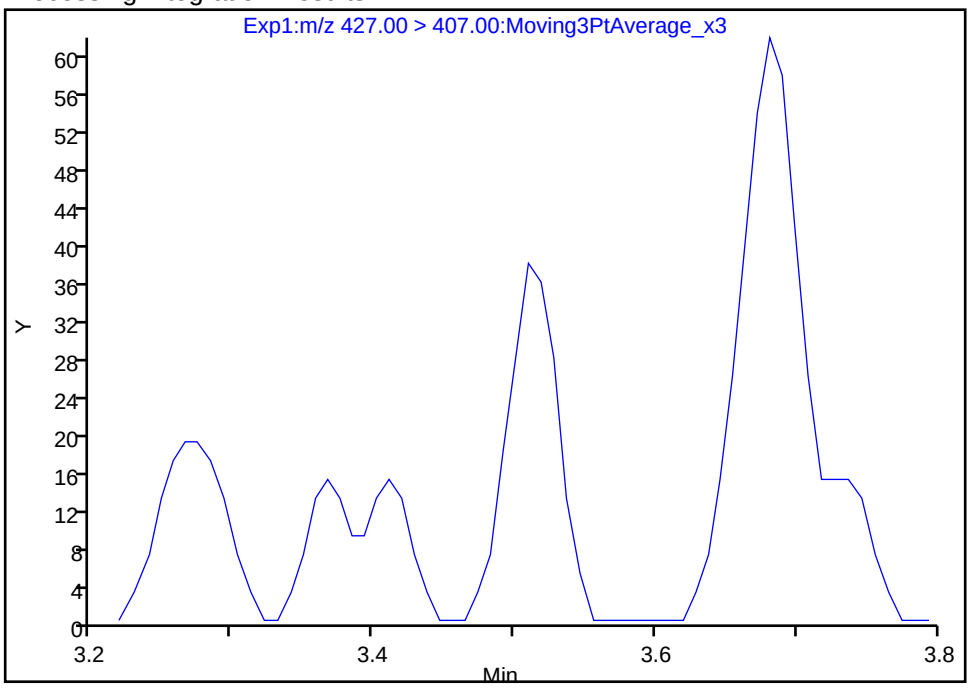
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

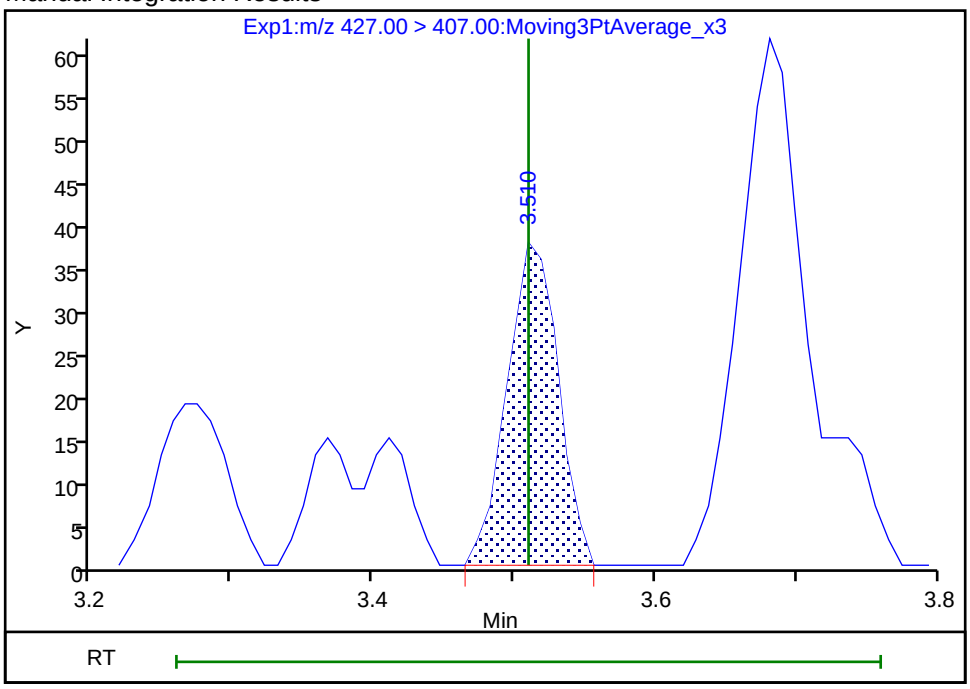
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 95
Amount: 0.000742
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:19:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

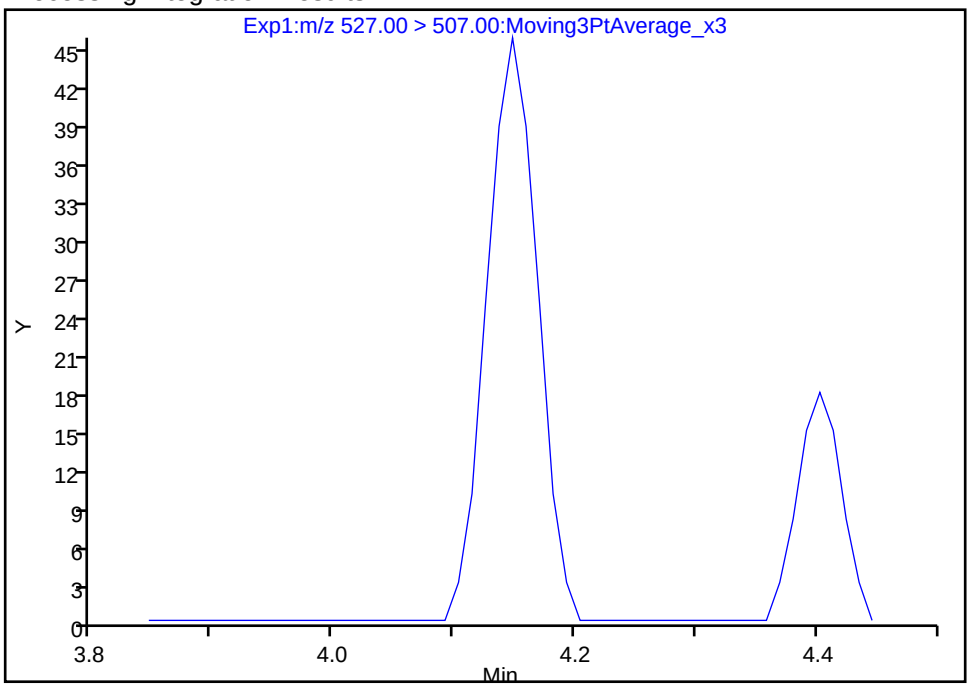
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

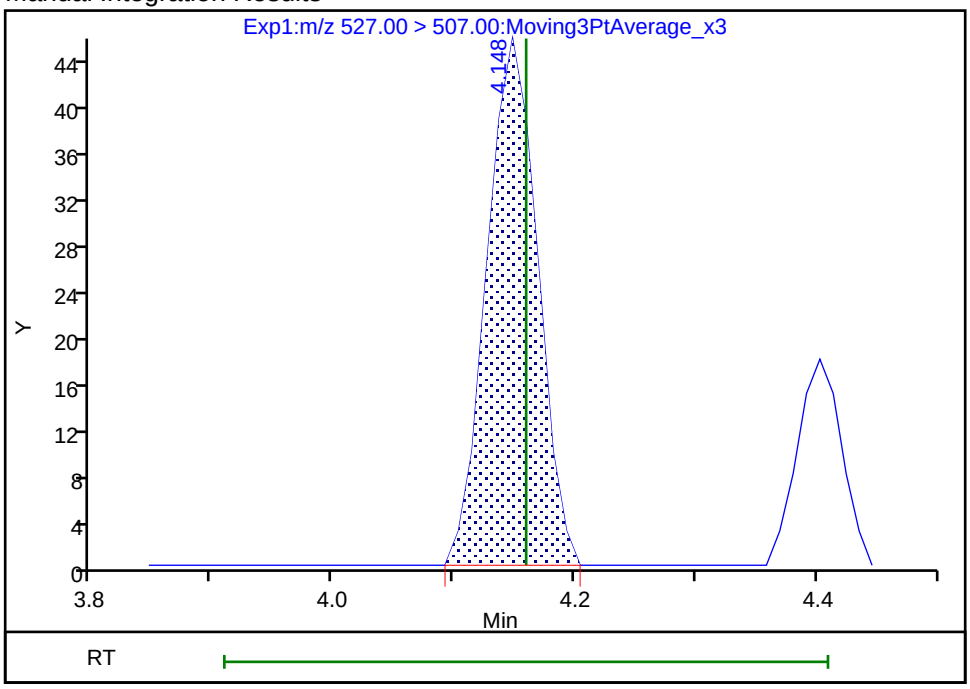
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 134
Amount: 0.002178
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:20:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

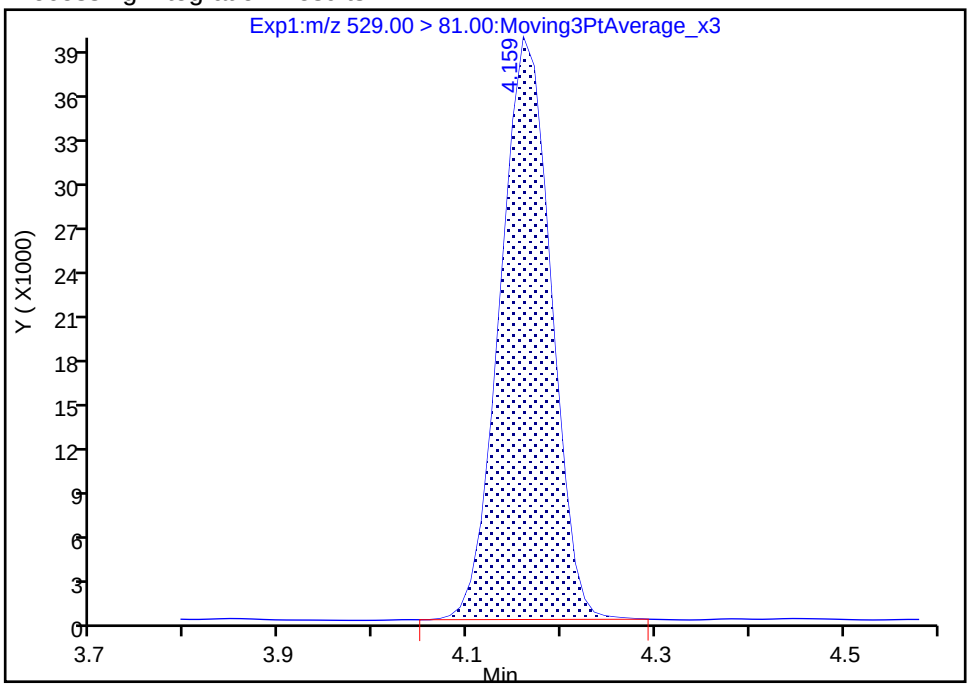
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A18.d				
Injection Date:	11-Aug-2021 15:06:26	Instrument ID:	LC812		
Lims ID:	480-188016-F-11-A	Lab Sample ID:	200-188016-11		
Client ID:	DUP-080321				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	18
Injection Vol:	20.0 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

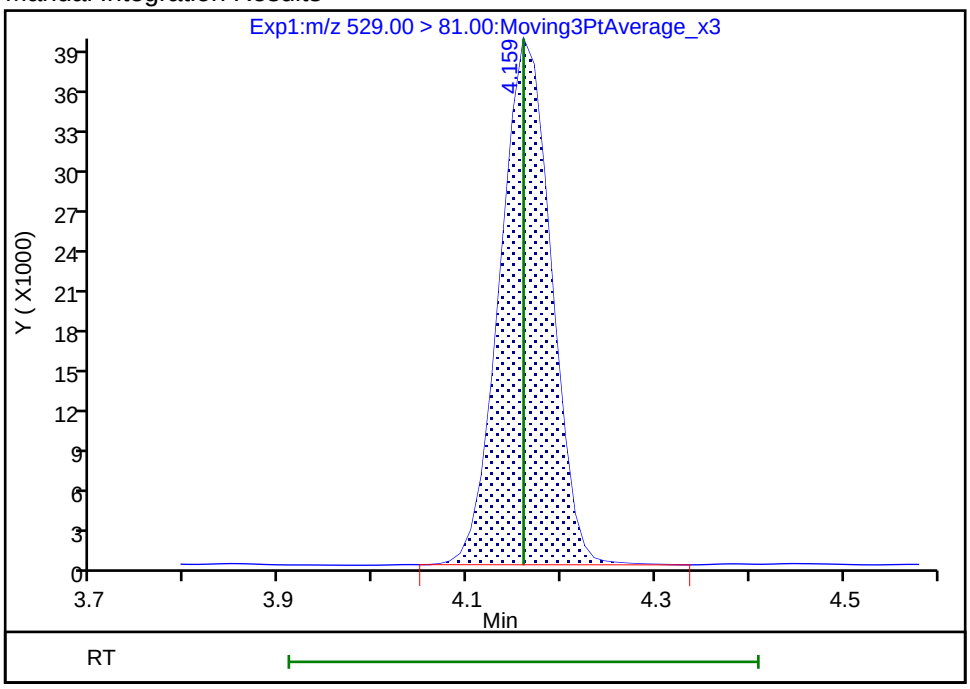
Processing Integration Results

RT: 4.16
Area: 147464
Amount: 1.098110
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 147875
Amount: 1.101170
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:16:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: FB-080321 Lab Sample ID: 480-188016-13

Matrix: Water Lab File ID: PA210811A19.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 16:40

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 279.7(mL) Date Analyzed: 08/11/2021 15:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.5	0.80
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	0.42
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.40
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.38
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.31
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.34
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.56
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.26	J B	1.8	0.22
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.27
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.21
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.27
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.26
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.52
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.81
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.66
27619-97-2	6:2 FTS	ND		4.5	0.98
39108-34-4	8:2 FTS	ND		1.8	0.35

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: FB-080321 Lab Sample ID: 480-188016-13

Matrix: Water Lab File ID: PA210811A19.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 16:40

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 279.7(mL) Date Analyzed: 08/11/2021 15:14

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	80		25-150
STL00992	13C4 PFBA	94		25-150
STL01893	13C5 PFPeA	101		25-150
STL00993	13C2 PFHxA	102		50-150
STL01892	13C4 PFHpA	98		50-150
STL00990	13C4 PFOA	106		50-150
STL00995	13C5 PFNA	97		50-150
STL00996	13C2 PFDA	101		50-150
STL00997	13C2 PFUnA	95		50-150
STL00998	13C2 PFDoA	88		50-150
STL02116	13C2 PFTeDA	80		50-150
STL02337	13C3 PFBS	108		50-150
STL00994	18O2 PFHxS	104		50-150
STL00991	13C4 PFOS	100		50-150
STL02118	d3-NMeFOSAA	93		50-150
STL02117	d5-NEtFOSAA	93		50-150
STL02279	M2-6:2 FTS	108		25-150
STL02280	M2-8:2 FTS	102		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d
Lims ID: 480-188016-A-13-A
Client ID: FB-080321
Sample Type: Client
Inject. Date: 11-Aug-2021 15:14:43 ALS Bottle#: 16 Worklist Smp#: 19
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-A-13-A
Misc. Info.: 200-0047128-019 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:32:14 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 10:30:07
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	2.109	2.082	0.027	0.598	1536703	1.18		94.4	8998	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.082	0.027	1.000	20004	0.0169			2.2	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.691	1239066	1.26		101	3602	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.439	2.413	0.026	1.000	3690	0.003597			0.3	M
D 47 13C3 PFBS										
301.90 > 80.00	2.466	2.426	0.040	0.699	1313513	1.26		108	479532	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.466	2.426	0.040	1.000	8905	0.007296	Target=2.20		25.3	M
298.90 > 99.00	2.466	2.426	0.040	1.000	4151		2.15(1.10-3.30)		3.8	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.807	2.782	0.025	0.796	1388625	1.28		102	2464	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.807	2.782	0.025	1.000	6300	0.005637	Target=12.93		2.0	M
313.00 > 119.00	2.807	2.782	0.025	1.000	527		11.95(6.46-19.39)		1.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.164	3.154	0.010	0.897	1019540	1.23		104	2599	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.164	3.154	0.010	1.000	4602	0.004613	Target=4.48		28.8	M
399.00 > 99.00	3.164	3.154	0.010	1.000	1560		2.95(2.24-6.72)		2.3	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.175	3.154	0.021	1.003	2902	0.002623	Target=3.68		1.1	M
363.00 > 169.00	3.175	3.154	0.021	1.003	758		3.83(1.84-5.53)		3.5	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.154	0.010	0.897	1337638	1.23		98.3	2868	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.492	3.510	-0.018	0.910	230	0.000304	Target=6.56		3.4	RM
449.00 > 99.00	3.483	3.510	-0.027	0.908	145		1.59(3.28-9.84)		0.8	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.995	147751	1.28		108	599	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.510	3.510	0.0	1.000	124	0.000962			2.8	M
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	0.997	1486679	1.32		106	4052	
* 62 13C2 PFOA										M
415.00 > 370.00	3.528	3.519	0.009		1422825	1.25			3878	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.003	2573	0.002056	Target=2.67		1.2	M
413.00 > 169.00	3.528	3.519	0.009	1.003	1013		2.54(1.33-4.00)		3.2	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.087	726639	1.20		100	2493	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.836	3.836	0.0	1.000	1612	0.002366	Target=6.69		1.4	RM
499.00 > 99.00	3.599	3.836	-0.237	0.938	1081		1.49(3.34-10.03)		3.7	M
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.094	1300721	1.22		97.5	2975	
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.858	3.858	0.0	1.000	854	0.000849	Target=7.21		0.5	RM
463.00 > 169.00	3.847	3.858	-0.011	0.997	43		19.86(3.60-10.81)		0.7	M
D 23 13C2 PFDA										
515.00 > 470.00	4.148	4.148	0.0	1.176	1225094	1.27		101	3122	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.160	4.148	0.012	1.003	1805	0.001730	Target=8.42		2.2	M
513.00 > 169.00	4.148	4.148	0.0	1.000	251		7.19(4.21-12.63)		2.8	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.193	4.160	0.033	1.008	133	0.001913			4.3	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.179	167103	1.22		102	995	
D 21 13C8 FOSA										
506.00 > 78.00	4.234	4.224	0.010	1.200	1069968	1.00		80.2	2637	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.224	4.224	0.0	0.998	359	0.000429			2.7	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.292	4.280	0.012	1.217	82359	1.16		92.5	688	
D 30 13C2 PFUnA										
565.00 > 520.00	4.414	4.402	0.012	1.251	915162	1.19		95.3	3173	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.414	4.402	0.012	1.000	683	0.000964	Target=7.70		1.4	RM
563.00 > 169.00	4.392	4.402	-0.010	0.995	240		2.85(3.85-11.56)		5.1	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.425	4.413	0.012	1.254	85814	1.16		92.6	785	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.446	4.413	0.033	1.005	40	0.000688			1.9	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.643	4.632	0.011	1.316	871492	1.10		87.8	2779	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.654	4.632	0.022	1.002	1027	0.001459	Target=6.31		0.4	RM
613.00 > 169.00	4.643	4.632	0.011	1.000	385		2.67(3.15-9.46)		6.1	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.044	5.034	0.010	1.430	620443	1.00		79.8	3501	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:32:42 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d

Injection Date: 11-Aug-2021 15:14:43 Instrument ID: LC812

Lims ID: 480-188016-A-13-A Lab Sample ID: 200-188016-13

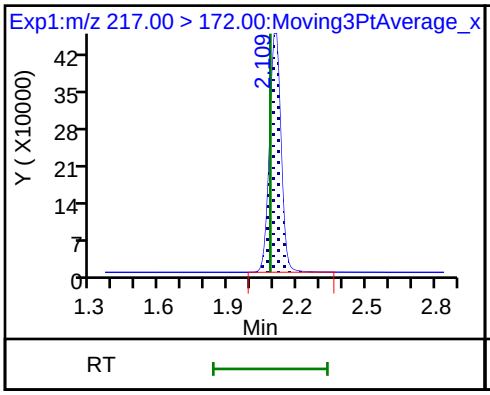
Client ID: FB-080321

Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 19

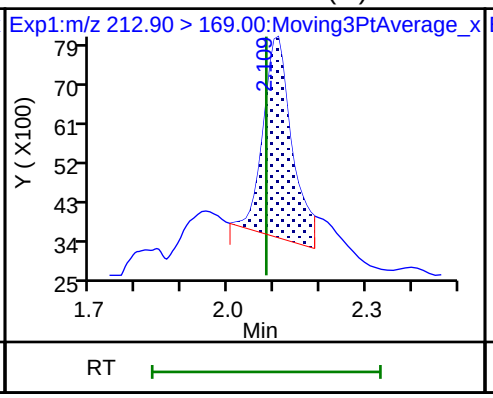
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

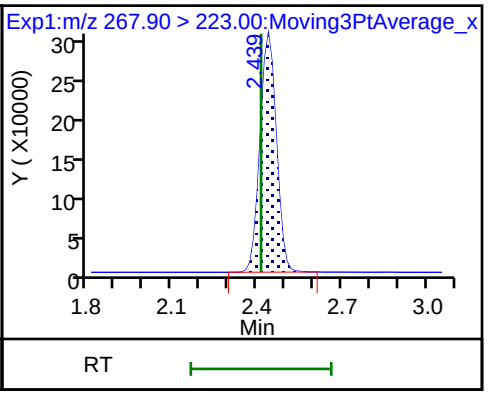
D 1 13C4 PFBA



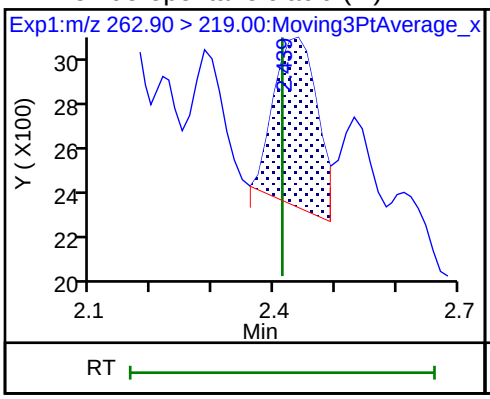
2 Perfluorobutanoic acid (M)



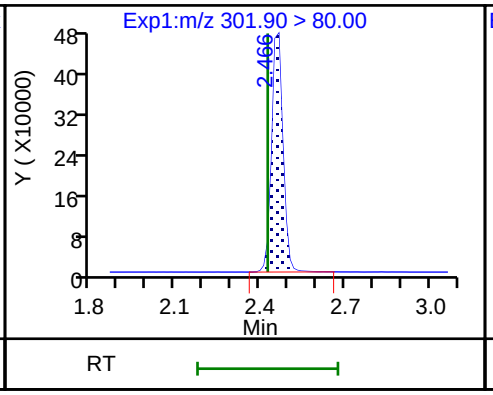
D 3 13C5 PFPeA



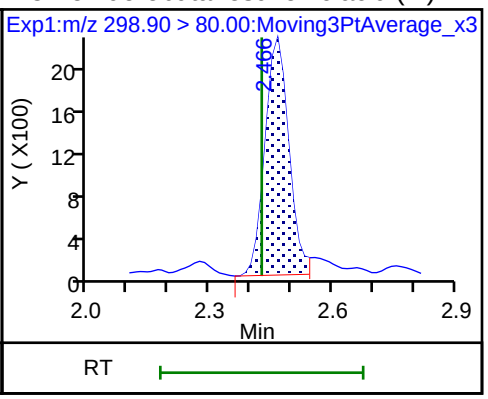
4 Perfluoropentanoic acid (M)



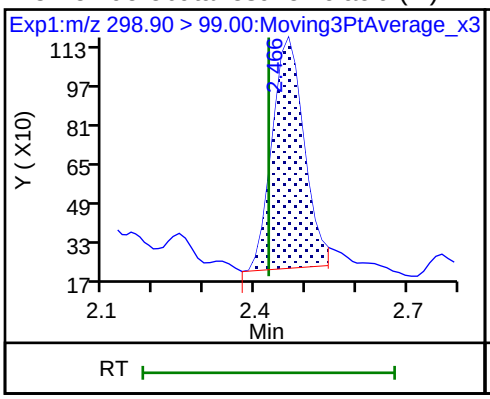
D 47 13C3 PFBS



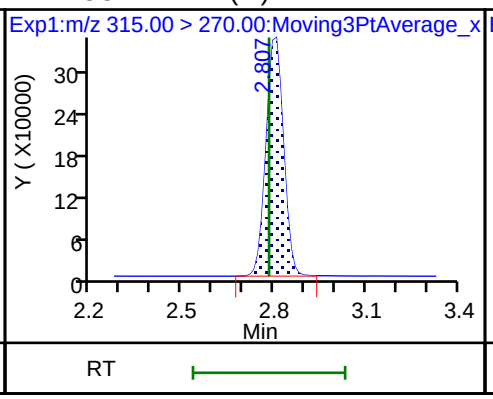
5 Perfluorobutanesulfonic acid (M)



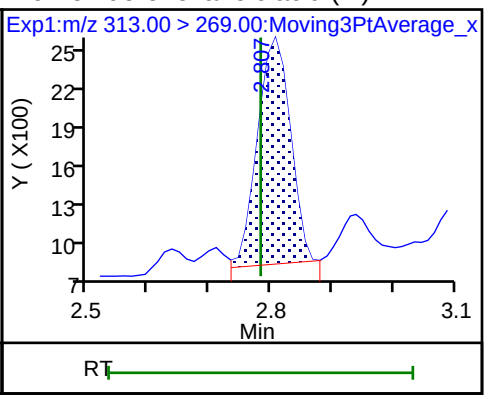
5 Perfluorobutanesulfonic acid (M)



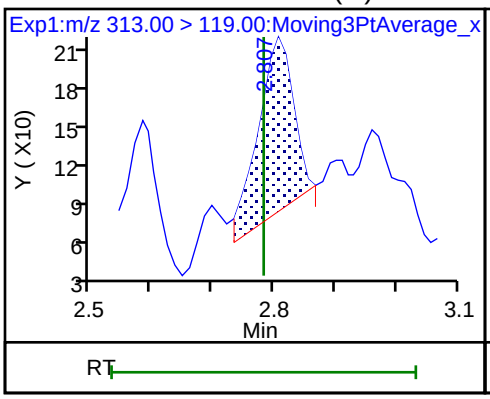
D 7 13C2 PFHxA (M)



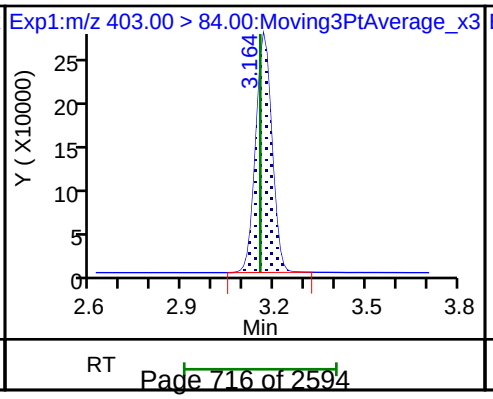
6 Perfluorohexanoic acid (M)



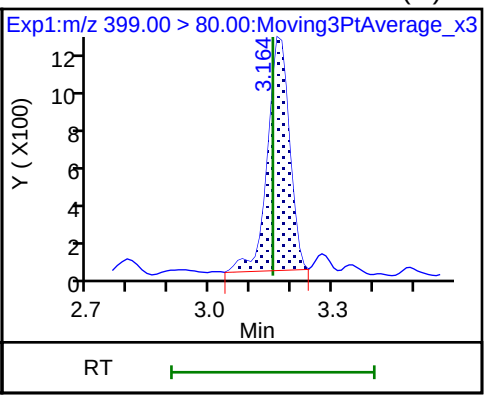
6 Perfluorohexanoic acid (M)



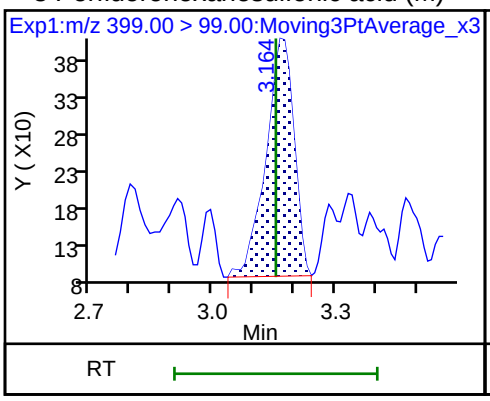
D 11 18O2 PFHxS



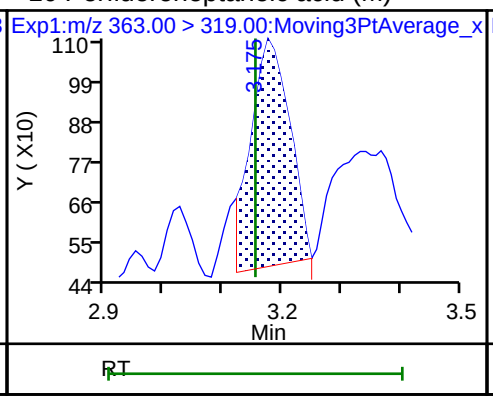
8 Perfluorohexanesulfonic acid (M)



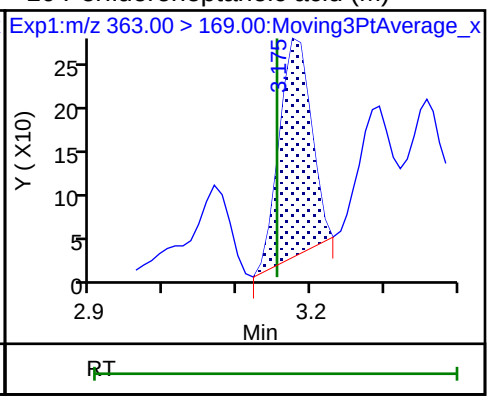
8 Perfluorohexanesulfonic acid (M)



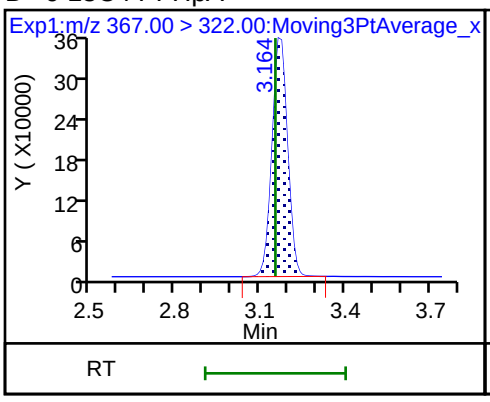
10 Perfluoroheptanoic acid (M)



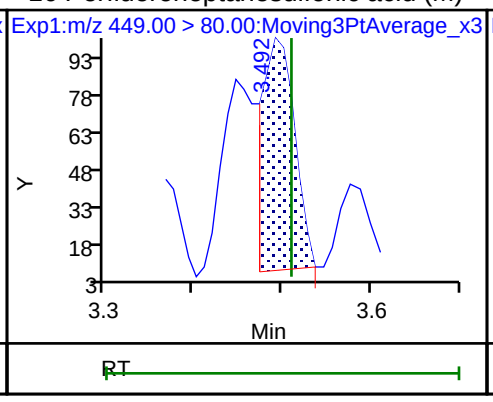
10 Perfluoroheptanoic acid (M)



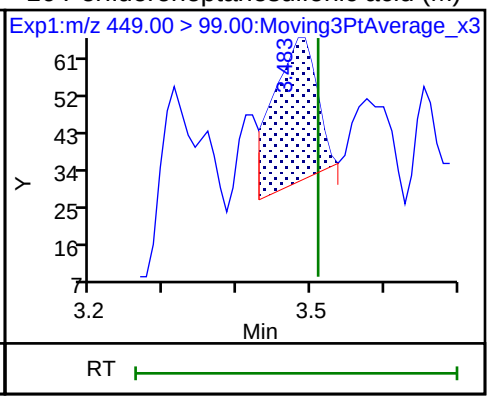
D 9 13C4 PFHpA



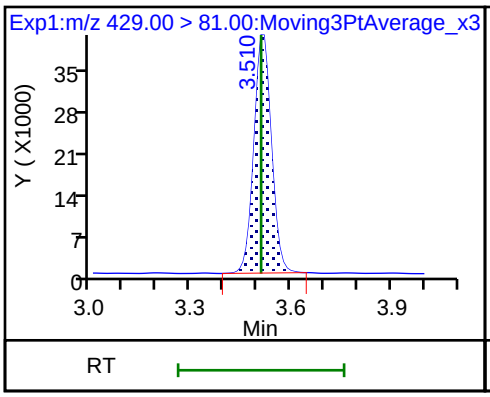
16 Perfluoroheptanesulfonic acid (M)



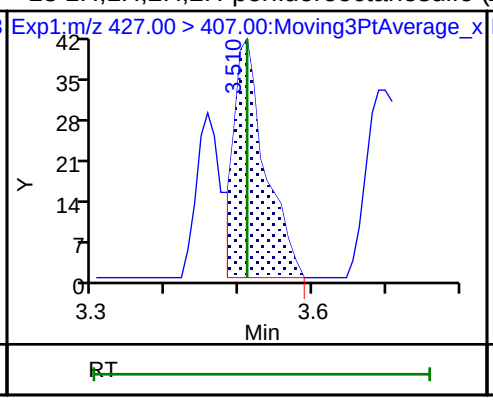
16 Perfluoroheptanesulfonic acid (M)



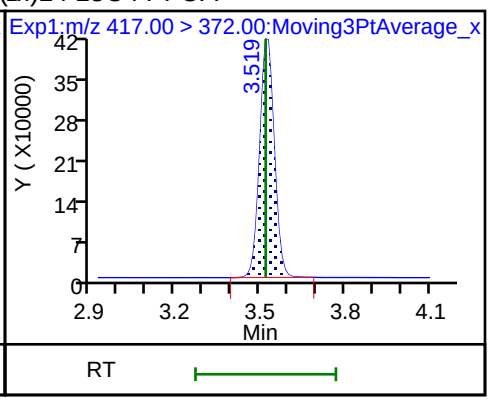
D 12 M2-6:2 FTS



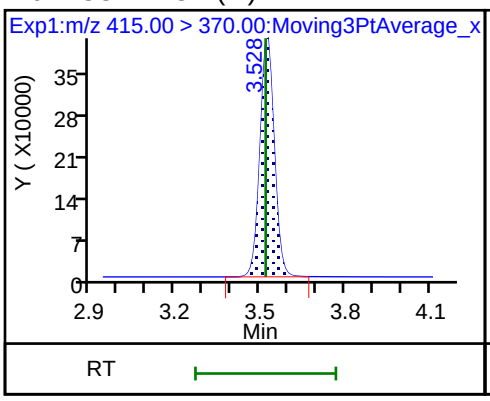
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



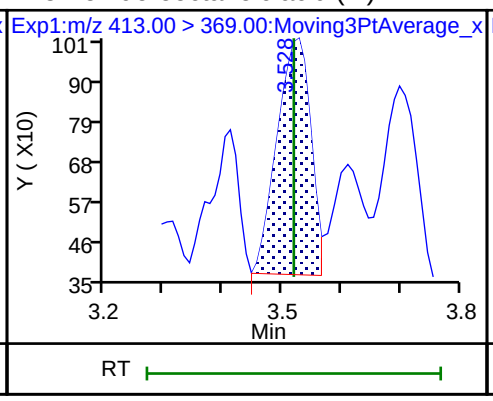
D 14 13C4 PFOA



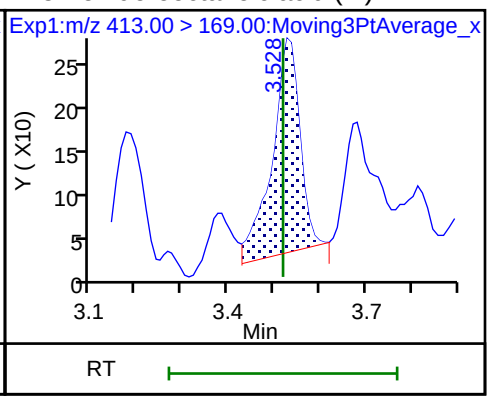
* 62 13C2 PFOA (M)



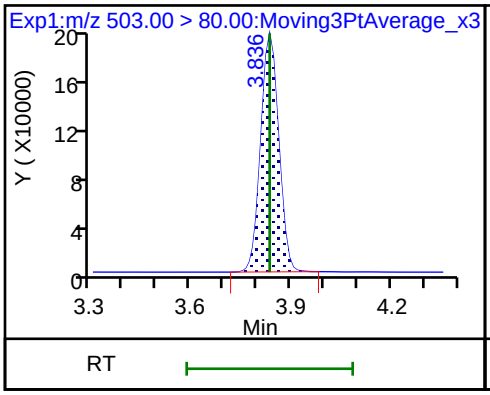
15 Perfluorooctanoic acid (M)



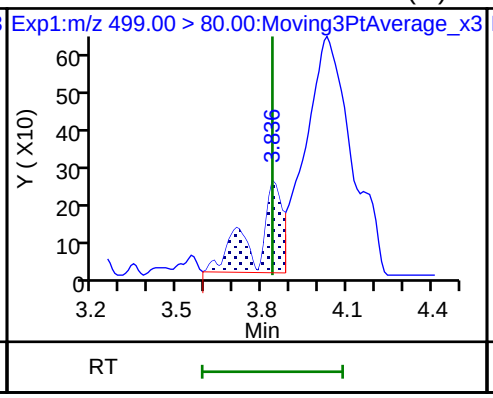
15 Perfluorooctanoic acid (M)



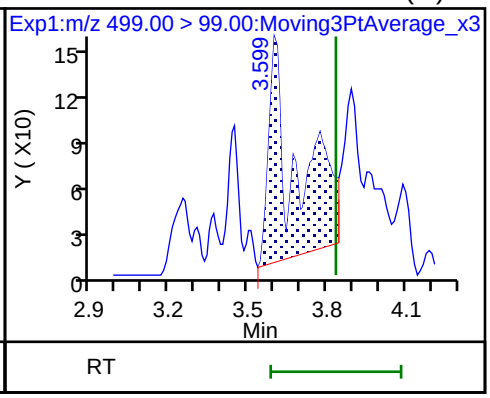
D 18 13C4 PFOS



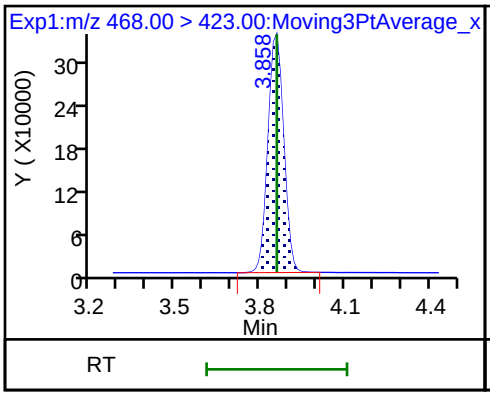
17 Perfluorooctanesulfonic acid (M)



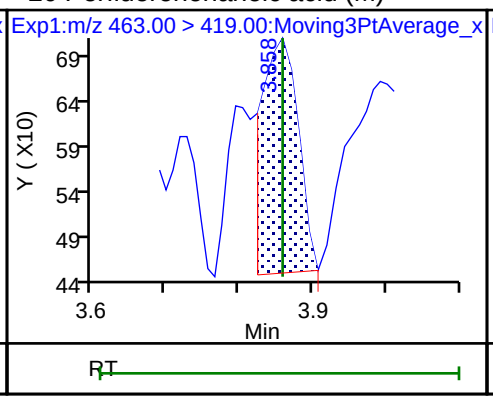
17 Perfluorooctanesulfonic acid (M)



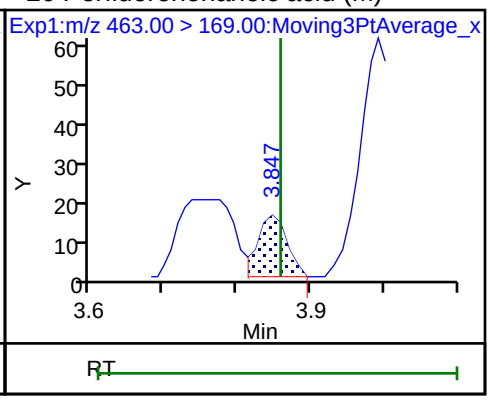
D 19 13C5 PFNA



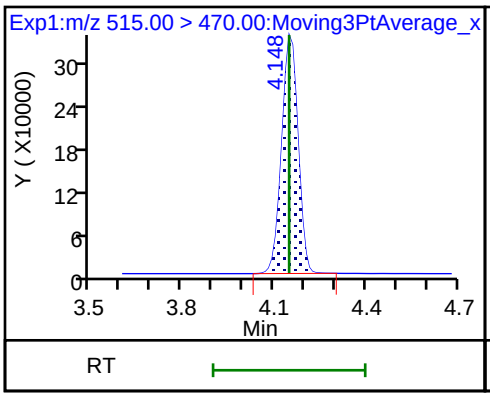
20 Perfluorononanoic acid (M)



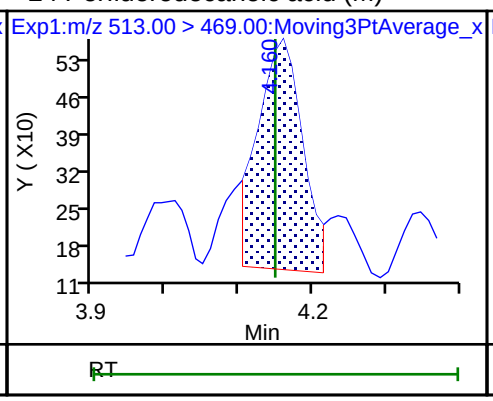
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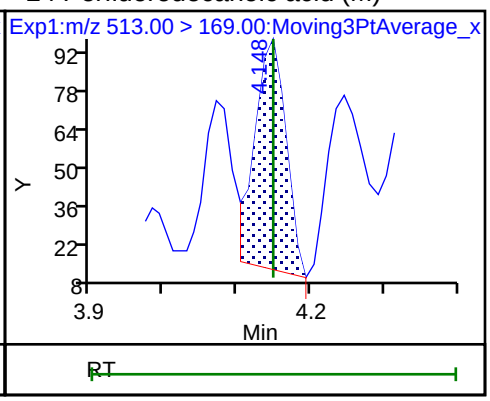
D 23 13C2 PFDA



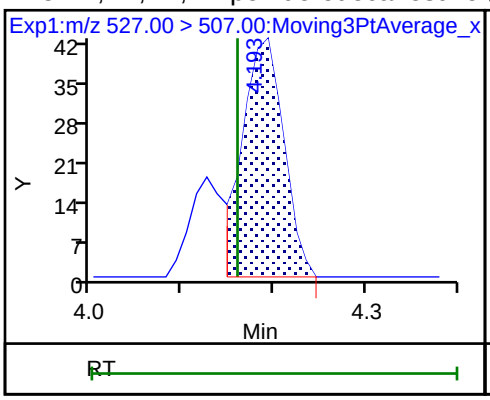
24 Perfluorodecanoic acid (M)



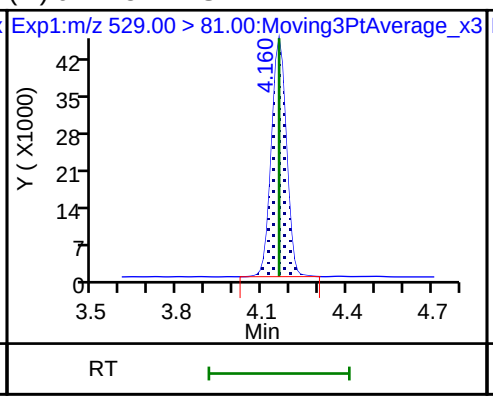
24 Perfluorodecanoic acid (M)



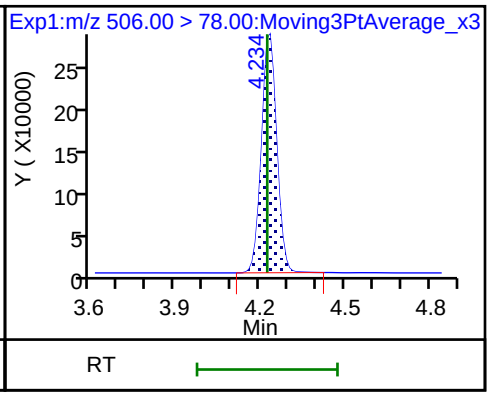
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



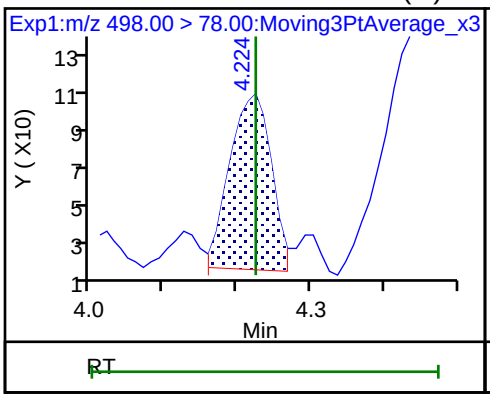
D 26 M2-8:2 FTS



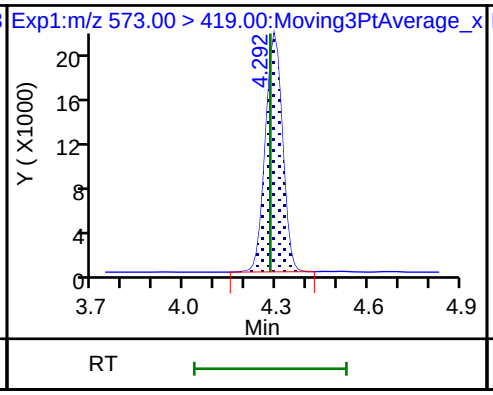
D 21 13C8 FOSA



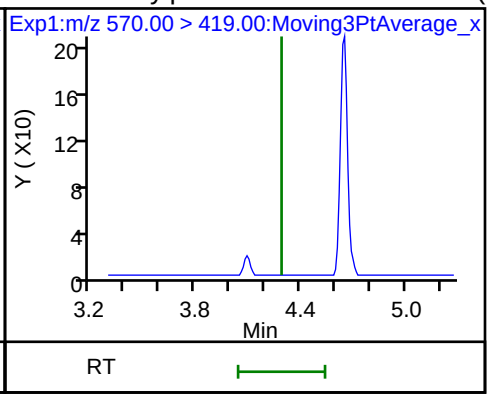
22 Perfluorooctanesulfonamide (M)



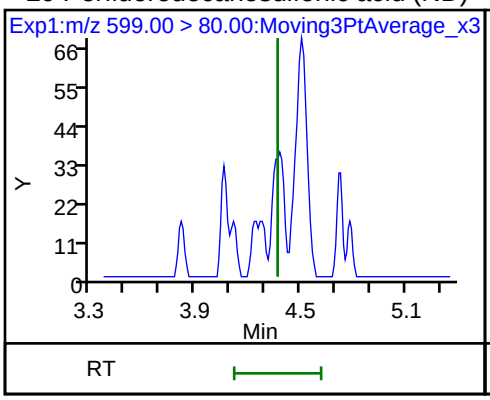
D 27 d3-NMeFOSAA



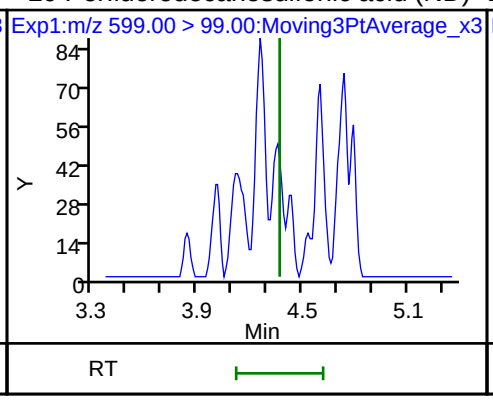
28 N-methylperfluorooctanesulfonami (ND)



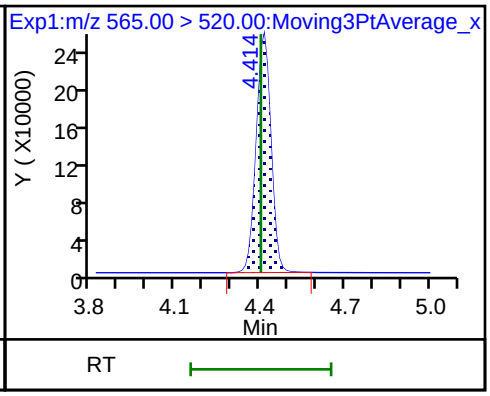
29 Perfluorodecanesulfonic acid (ND)



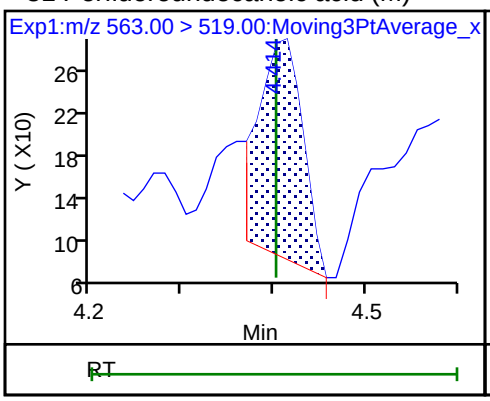
29 Perfluorodecanesulfonic acid (ND)



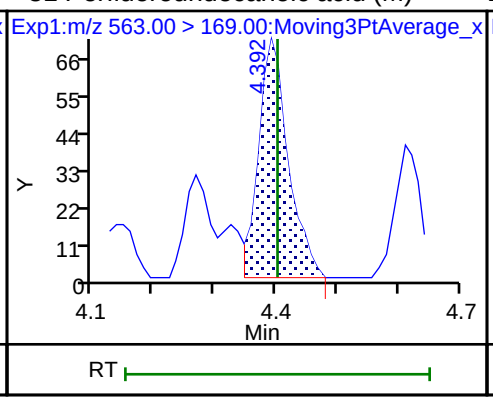
D 30 13C2 PFUnA



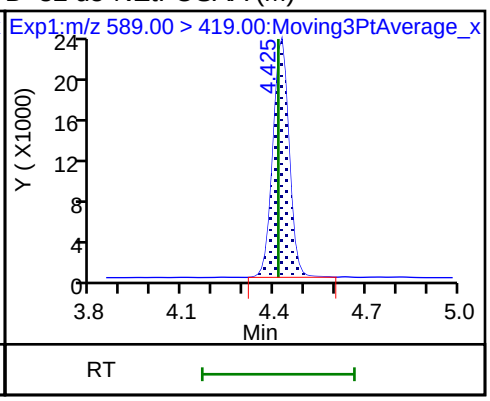
31 Perfluoroundecanoic acid (M)



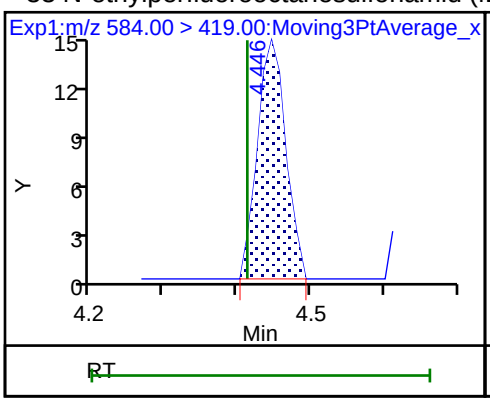
31 Perfluoroundecanoic acid (M)



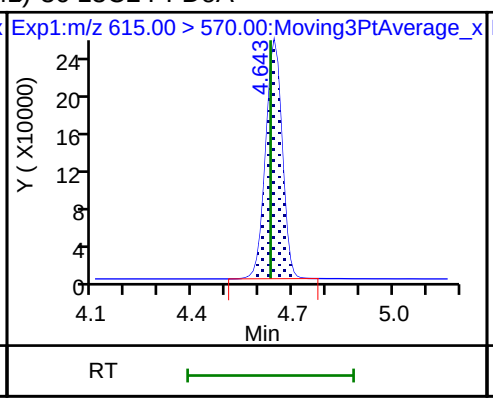
D 32 d5-NEtFOSAA (M)



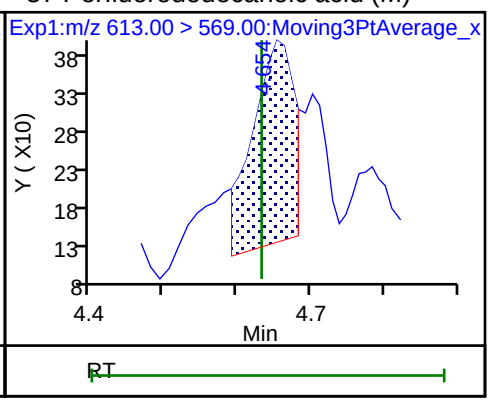
33 N-ethylperfluorooctanesulfonamid (ND)



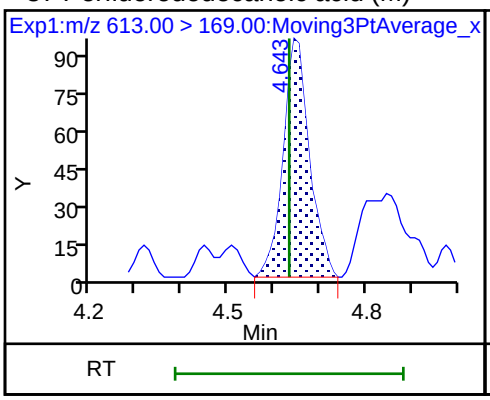
D 36 13C2 PFDoA



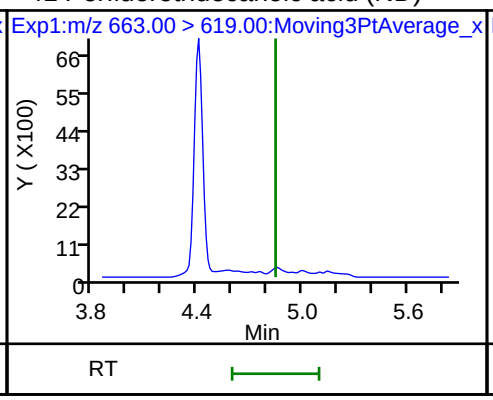
37 Perfluorododecanoic acid (M)



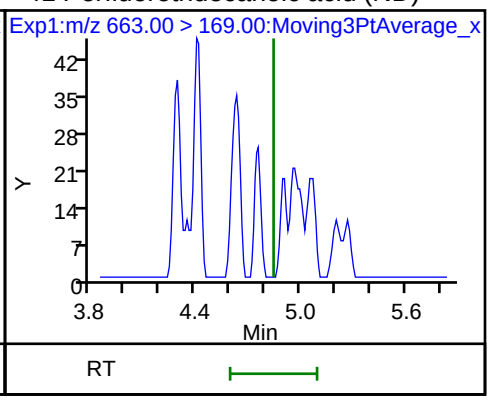
37 Perfluorododecanoic acid (M)



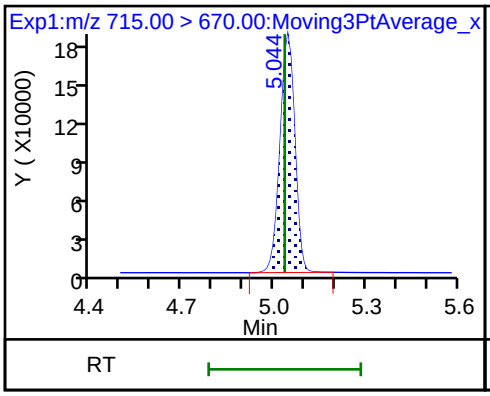
41 Perfluorotridecanoic acid (ND)



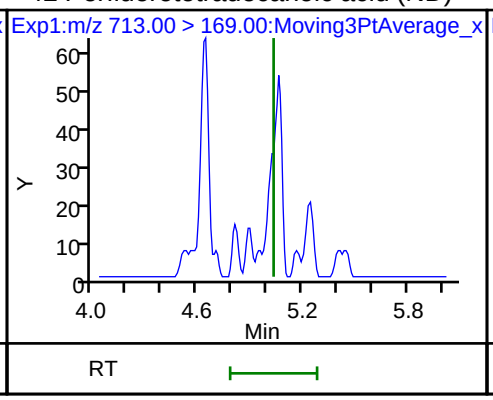
41 Perfluorotridecanoic acid (ND)



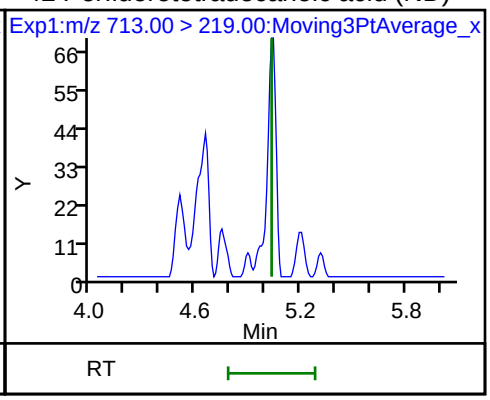
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



Eurofins TestAmerica, Burlington

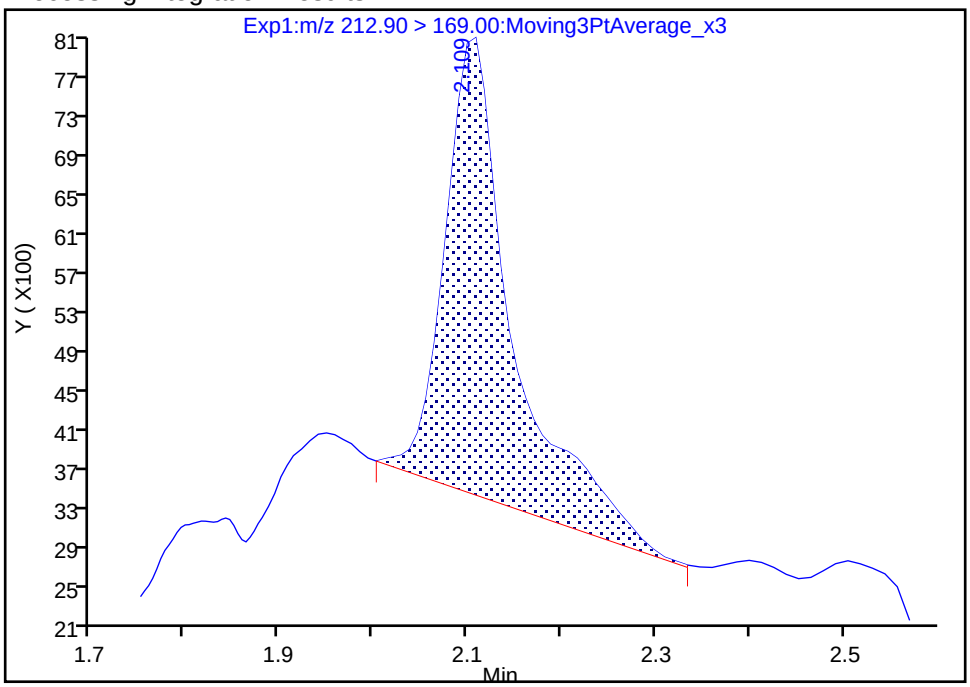
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Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

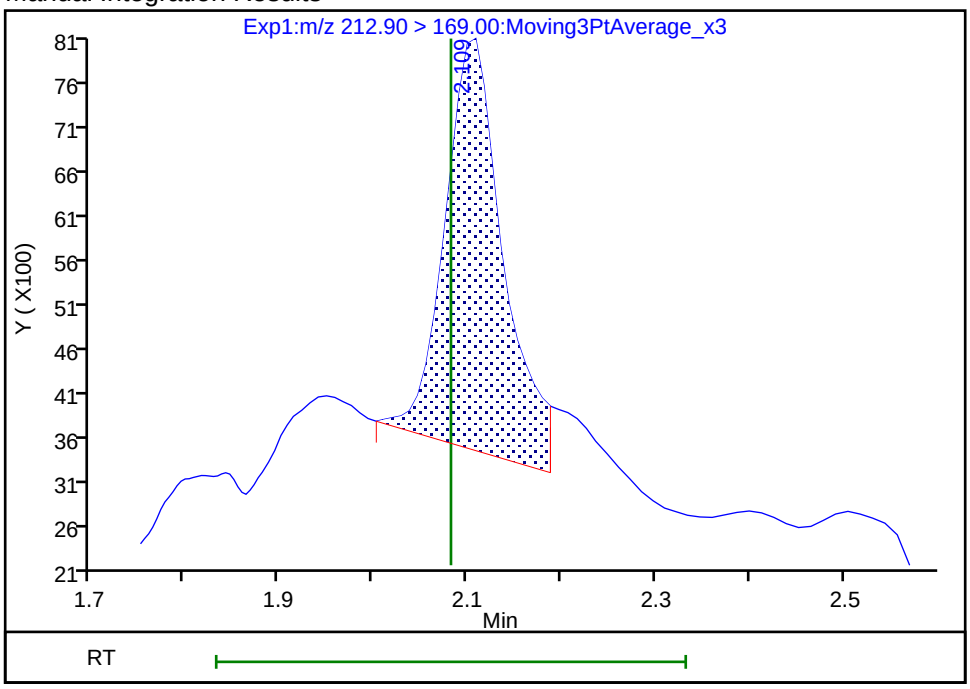
Processing Integration Results

RT: 2.11
Area: 23324
Amount: 0.019686
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 20004
Amount: 0.016884
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:24:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

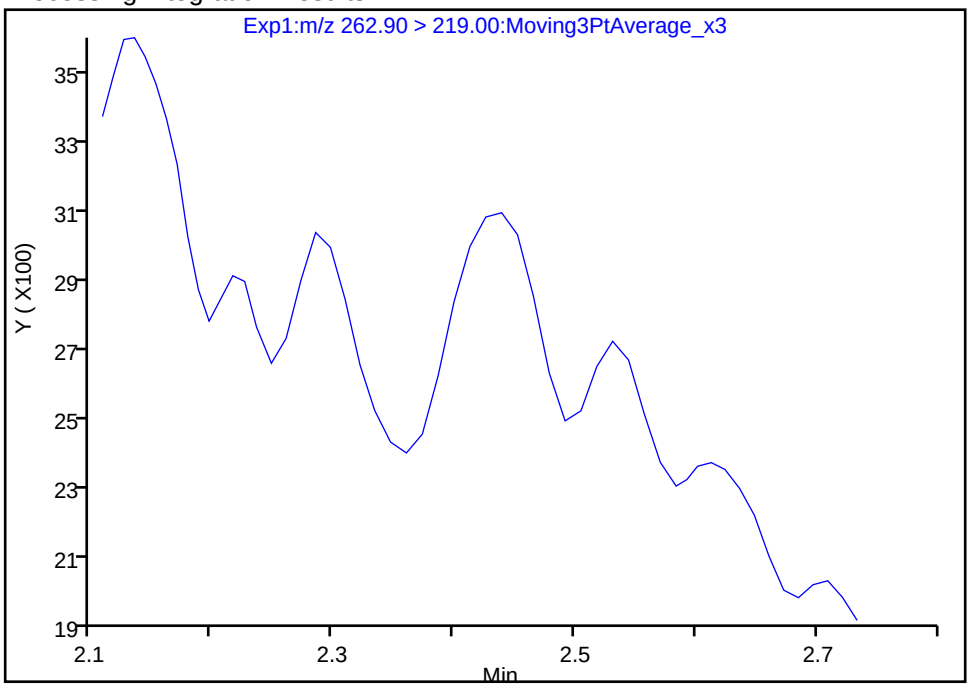
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

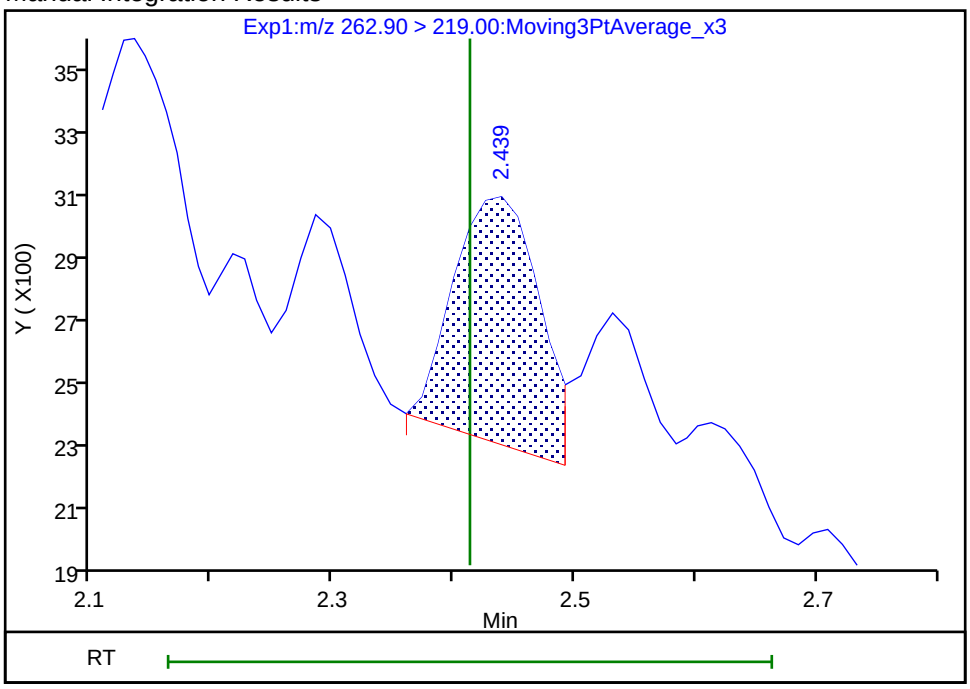
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.44
Area: 3690
Amount: 0.003597
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:24:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

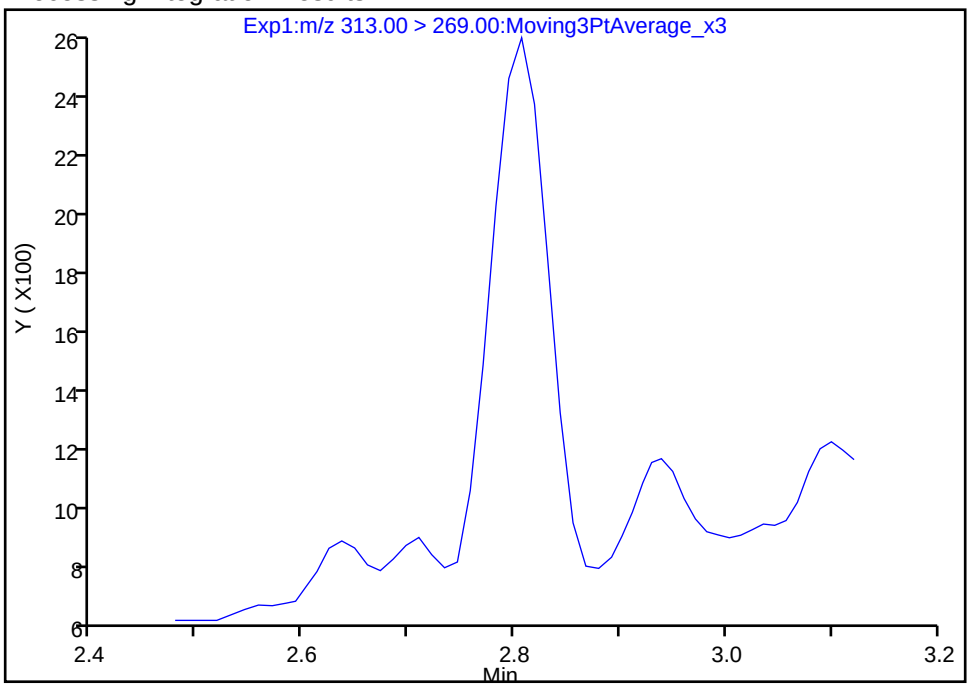
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

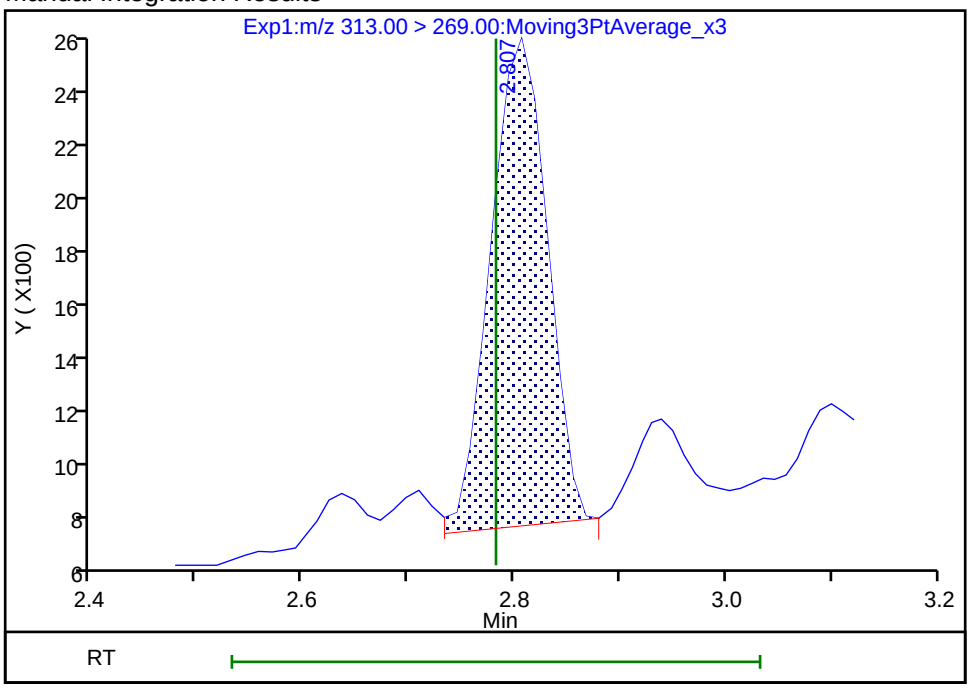
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.81
Area: 6300
Amount: 0.005637
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:25:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

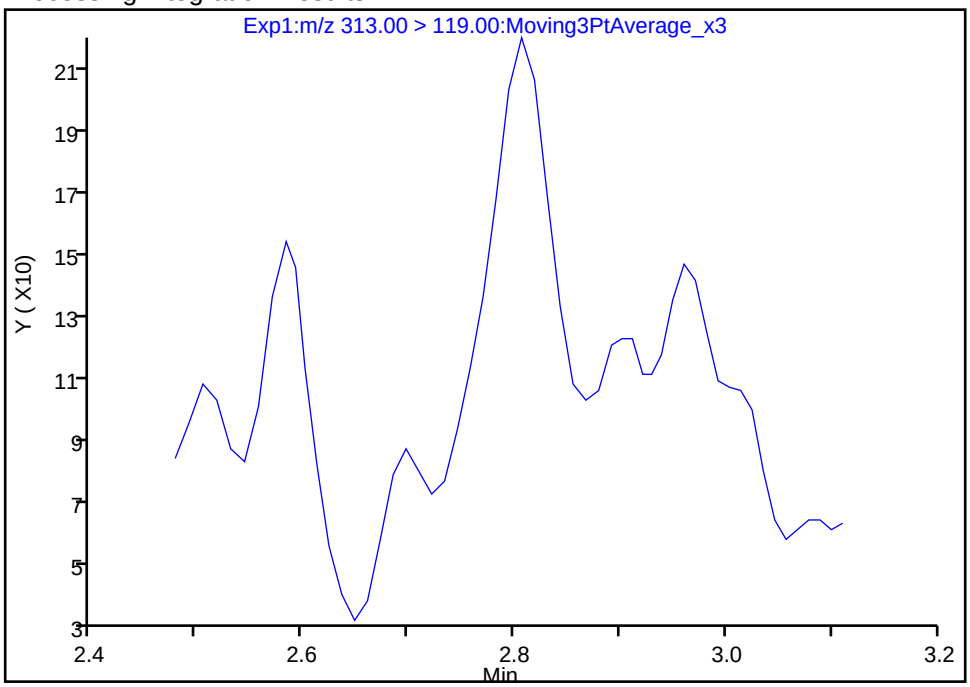
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

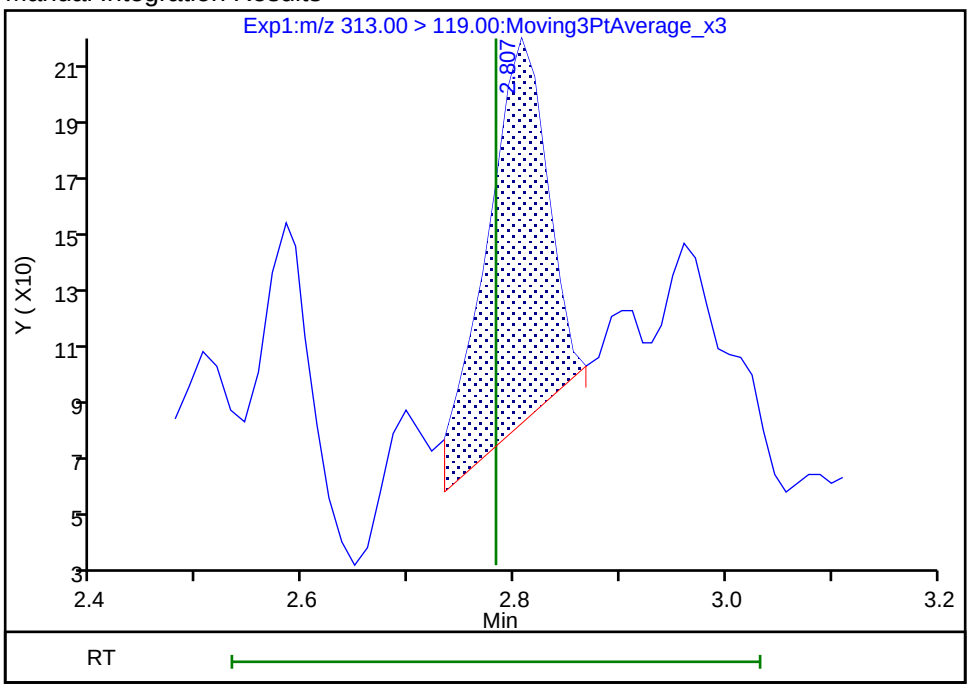
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.81
Area: 527
Amount: 0.005637
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:25:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

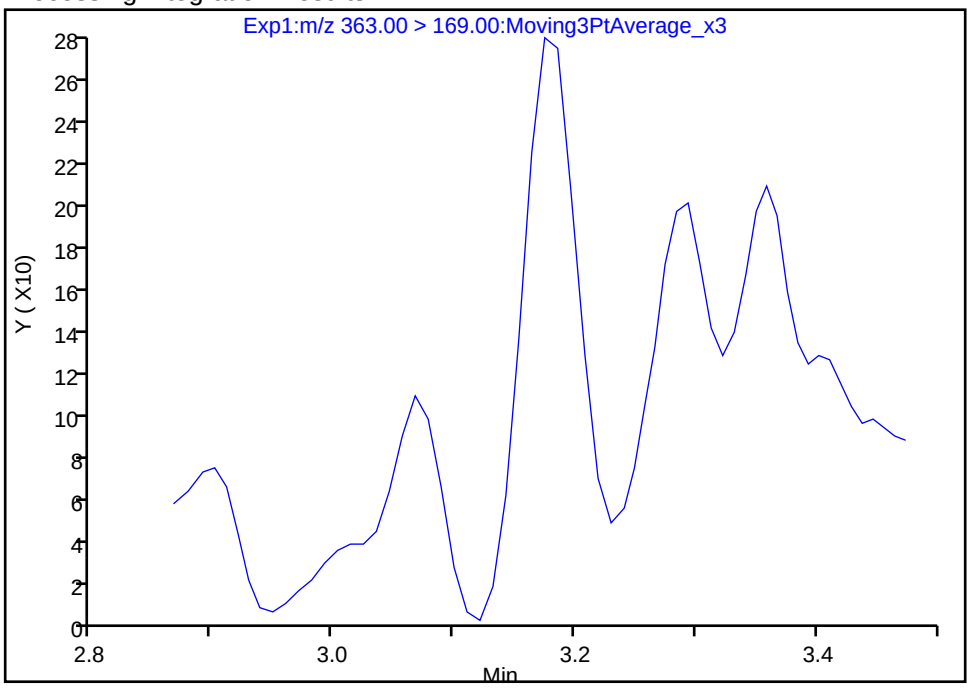
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

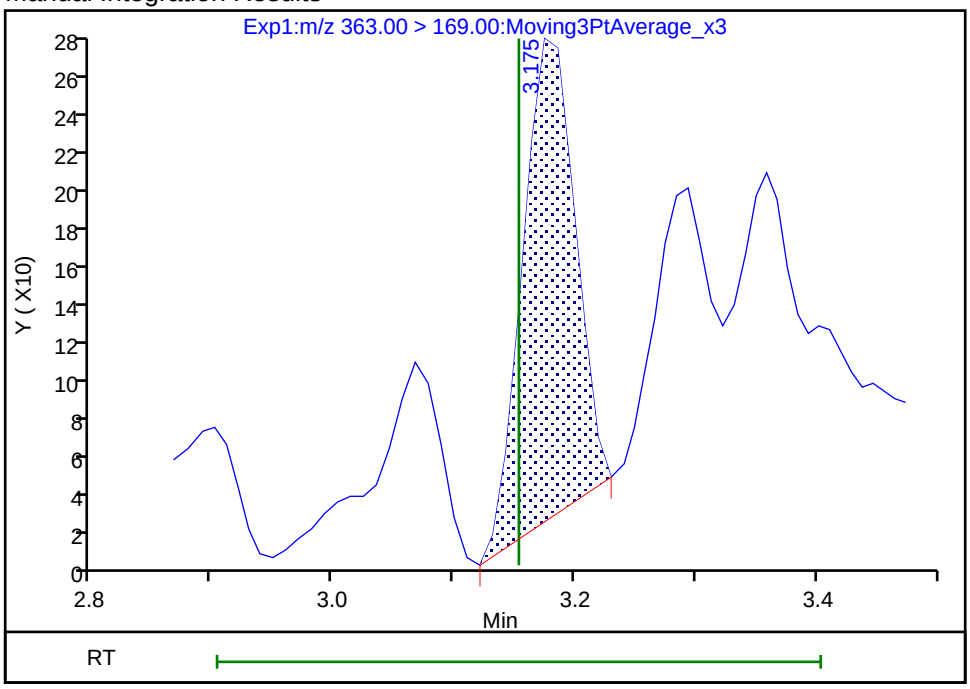
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 758
Amount: 0.002623
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:25:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

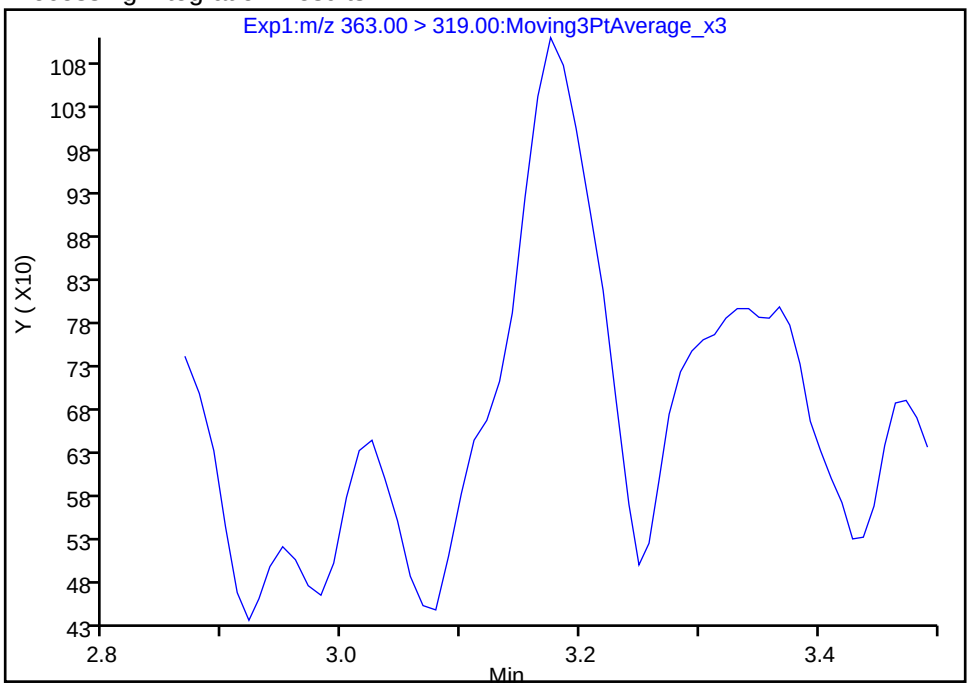
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

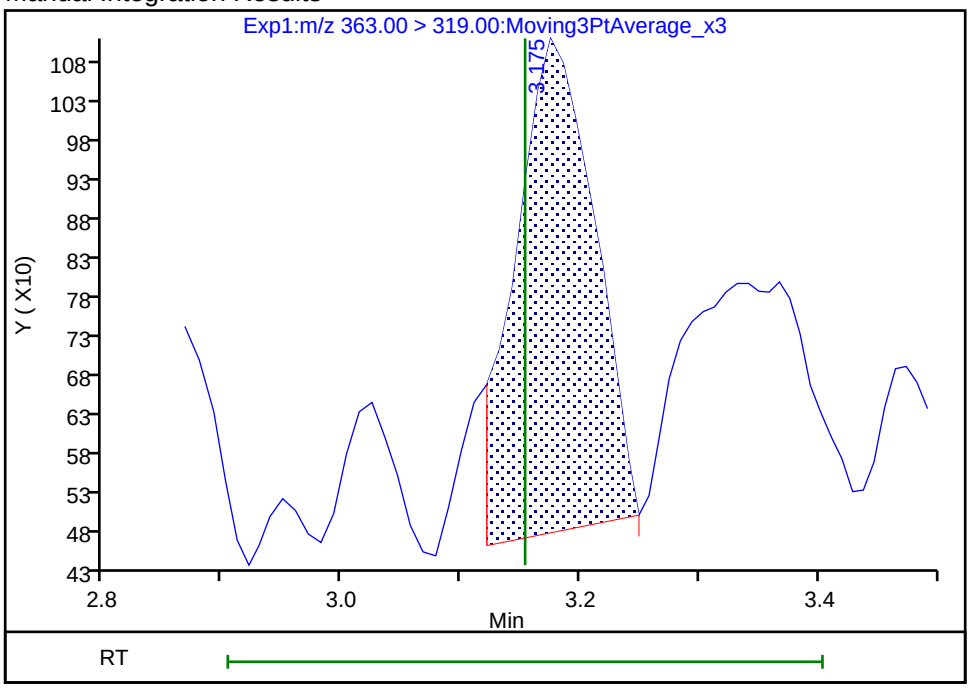
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.17
Area: 2902
Amount: 0.002623
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:25:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

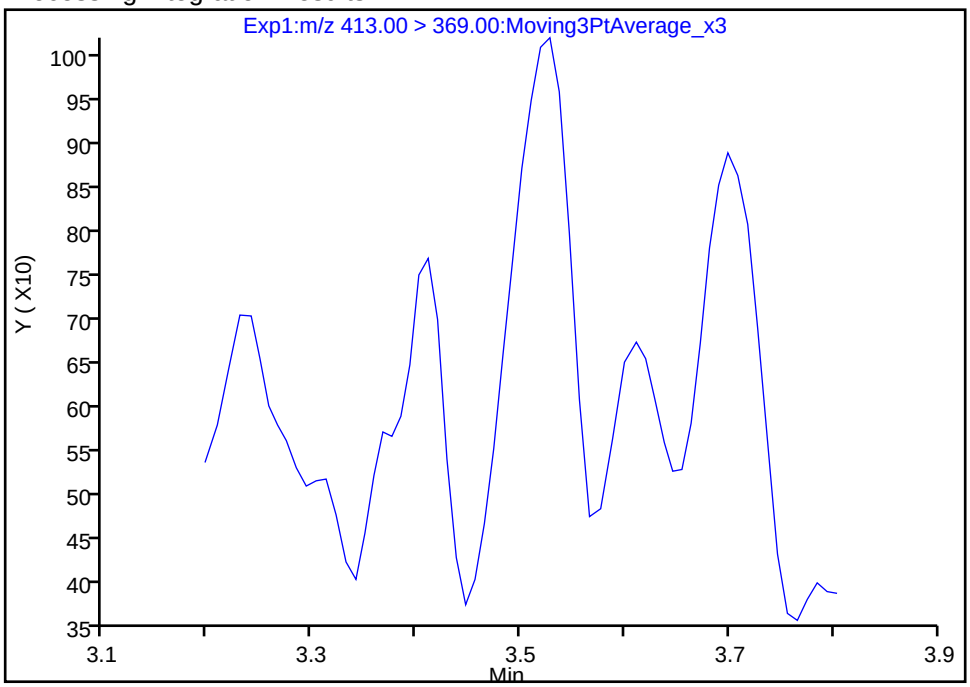
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

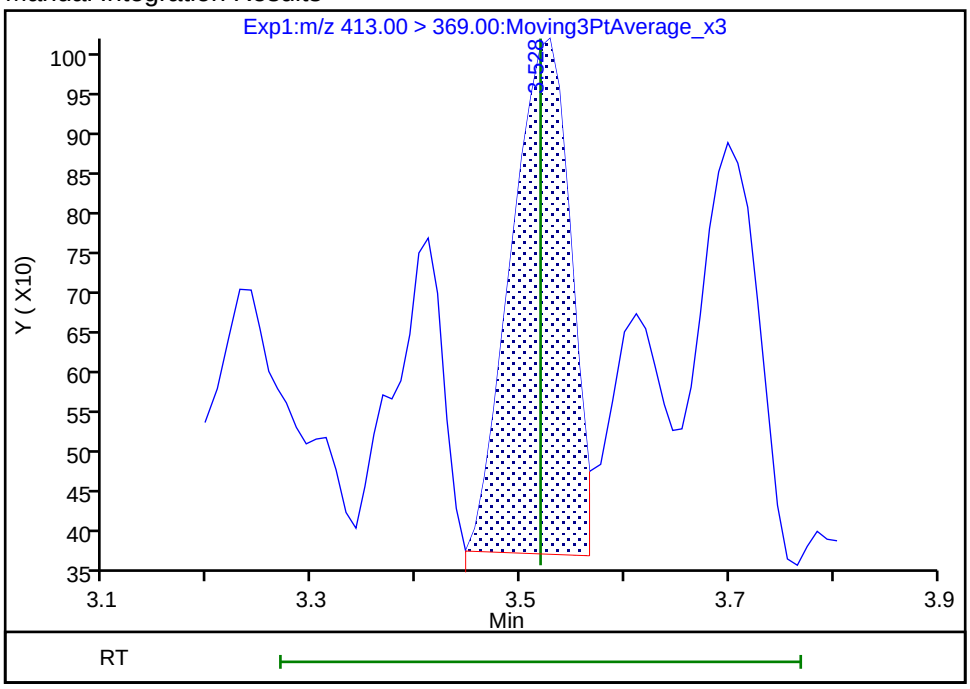
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 2573
Amount: 0.002056
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:26:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

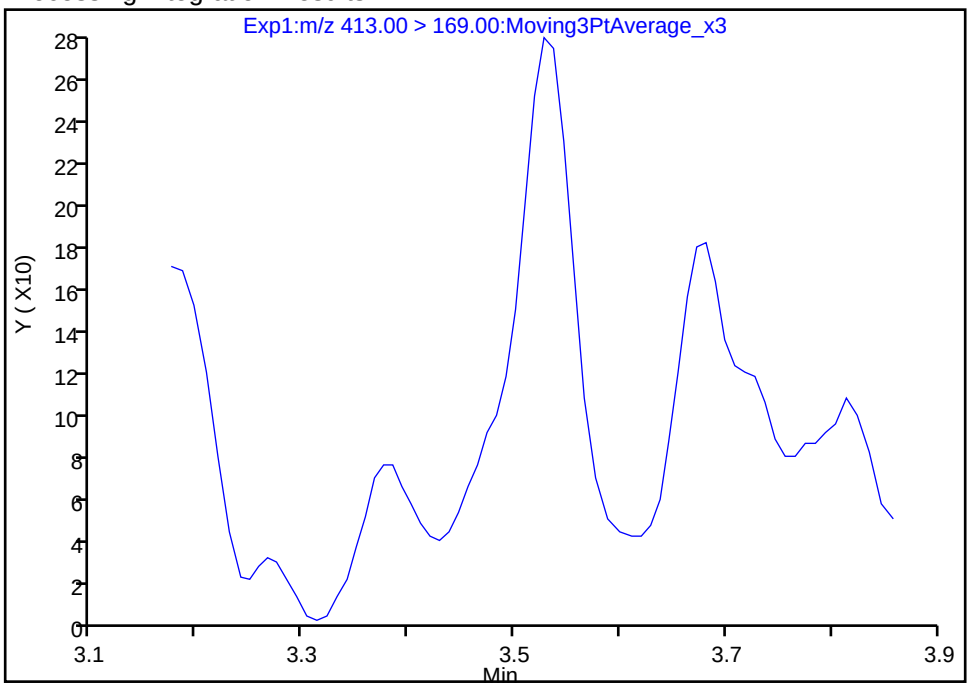
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

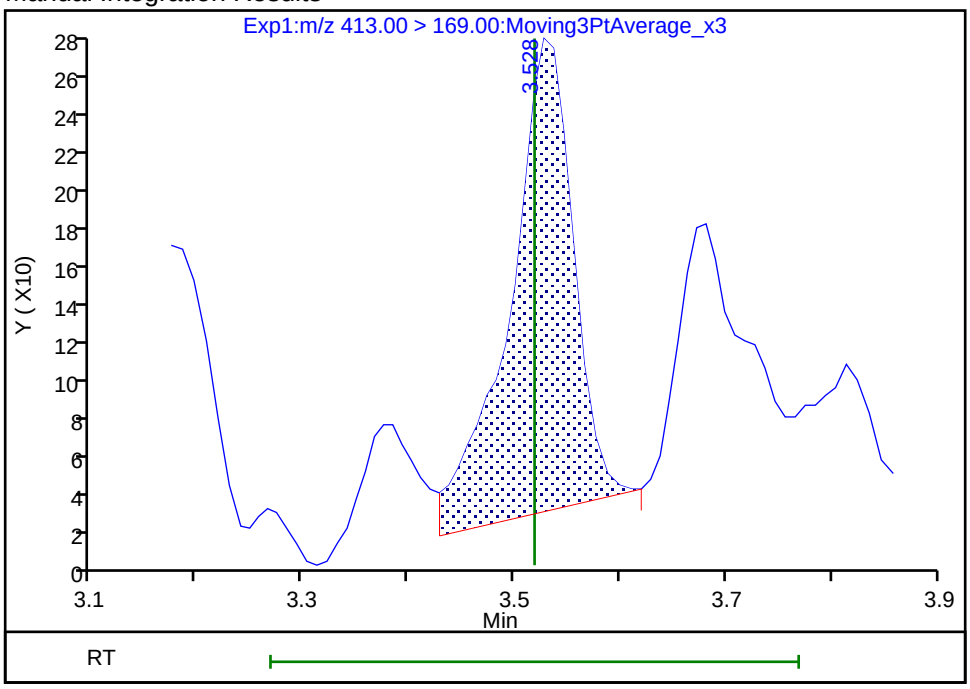
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 1013
Amount: 0.002056
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:27:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

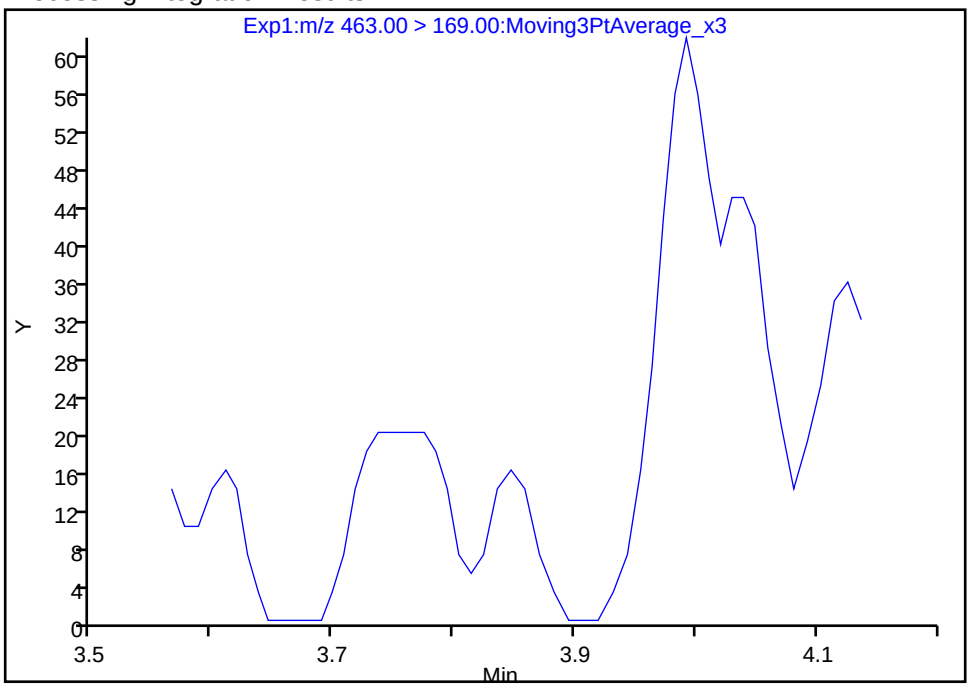
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

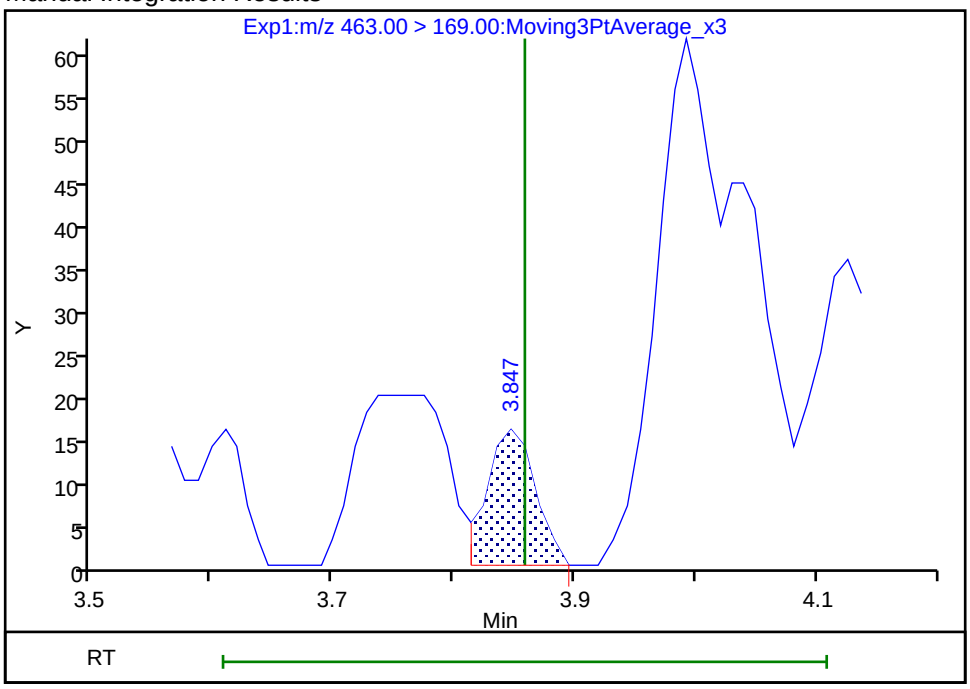
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.85
Area: 43
Amount: 0.000849
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:28:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

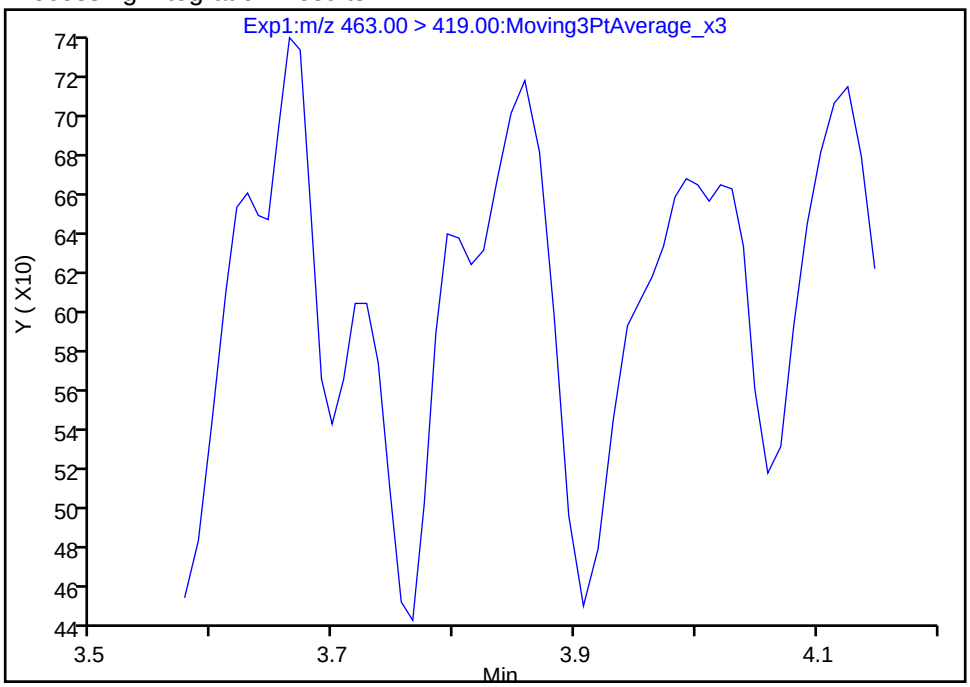
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

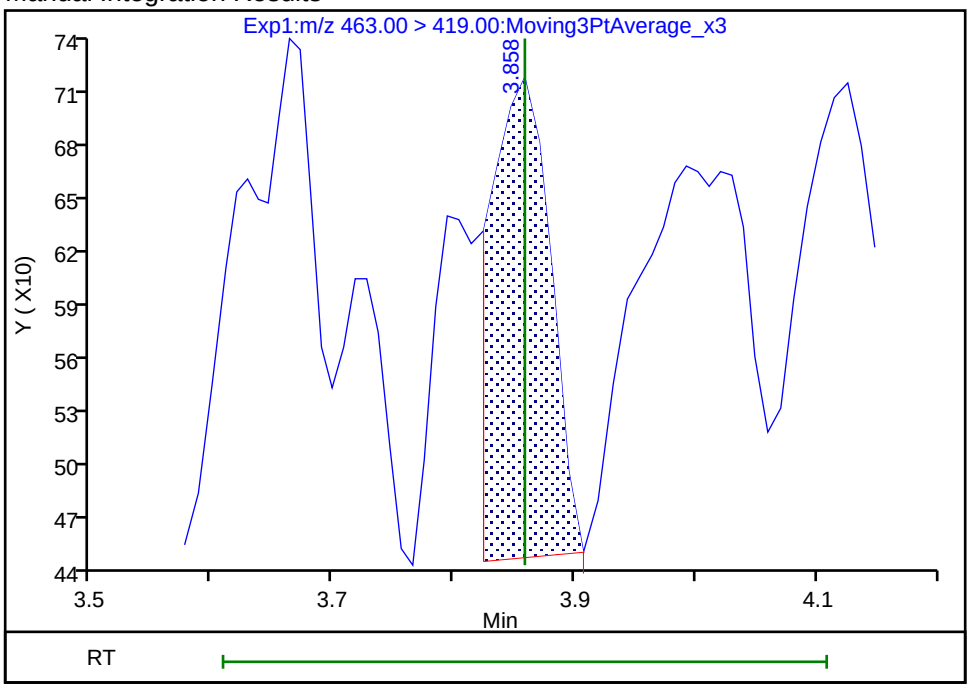
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.86
Area: 854
Amount: 0.000849
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:28:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

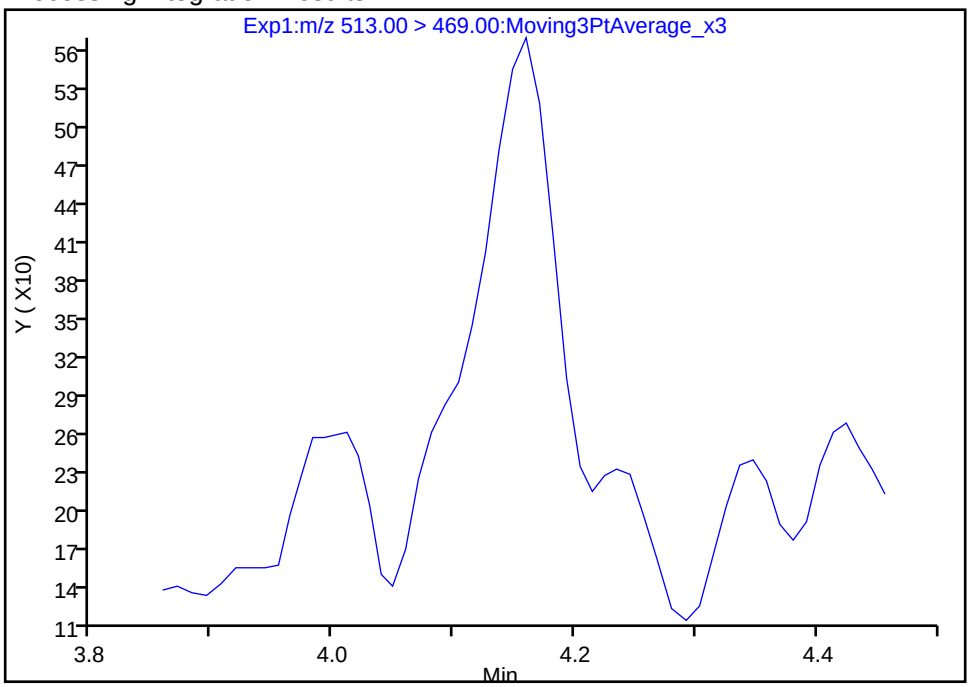
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

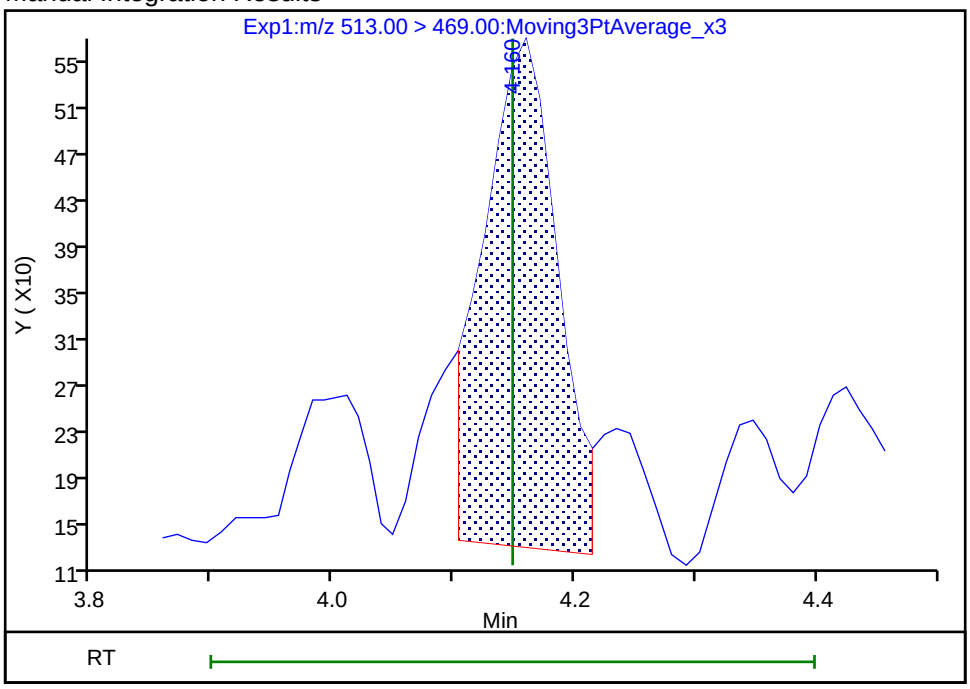
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 1805
Amount: 0.001730
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:28:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

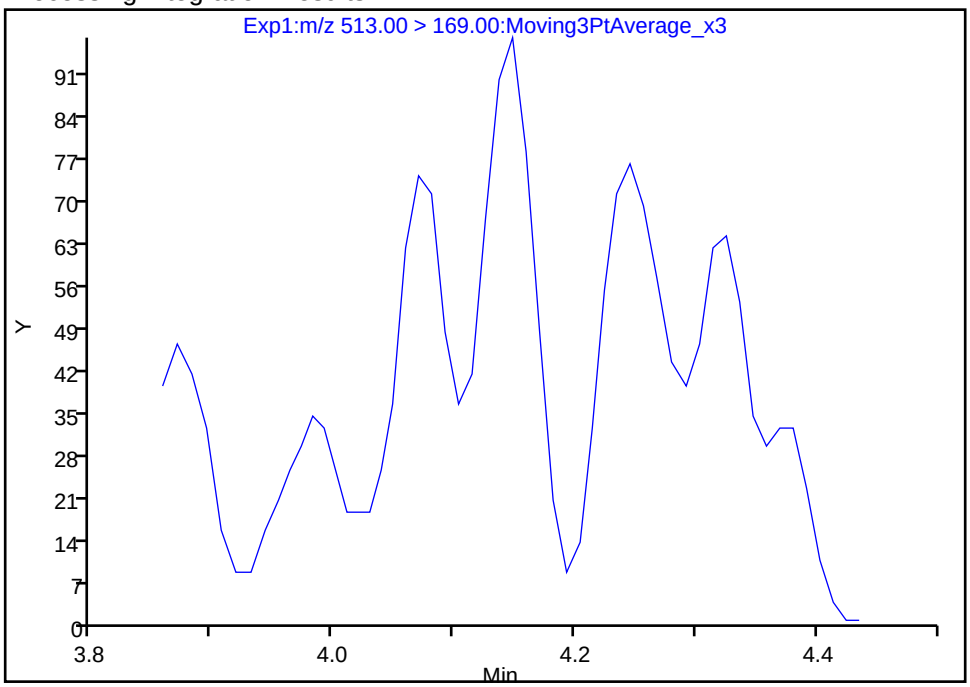
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

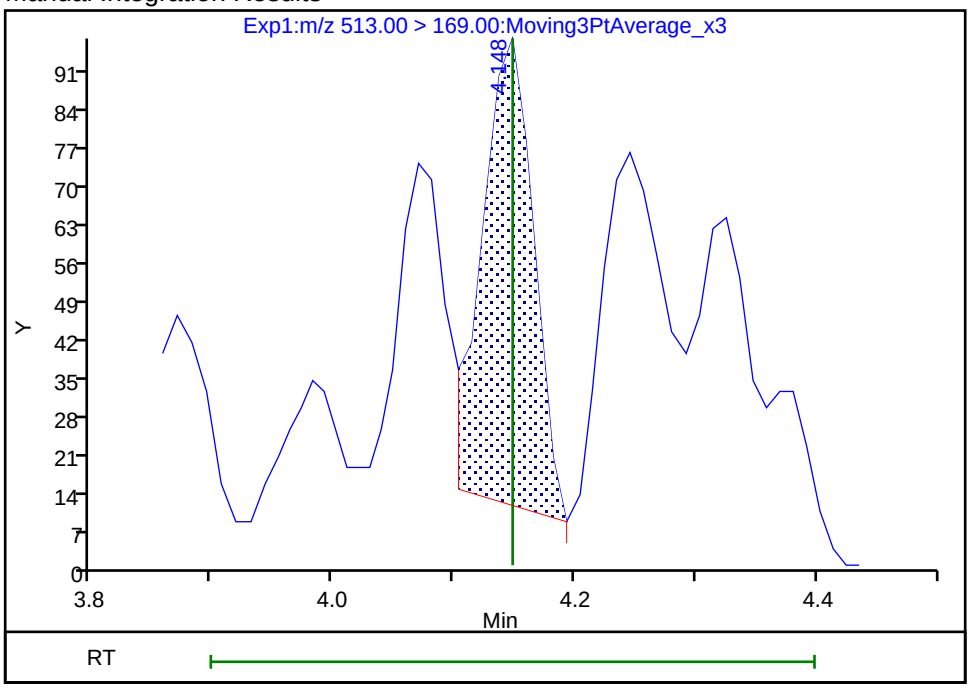
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 251
Amount: 0.001730
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:28:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

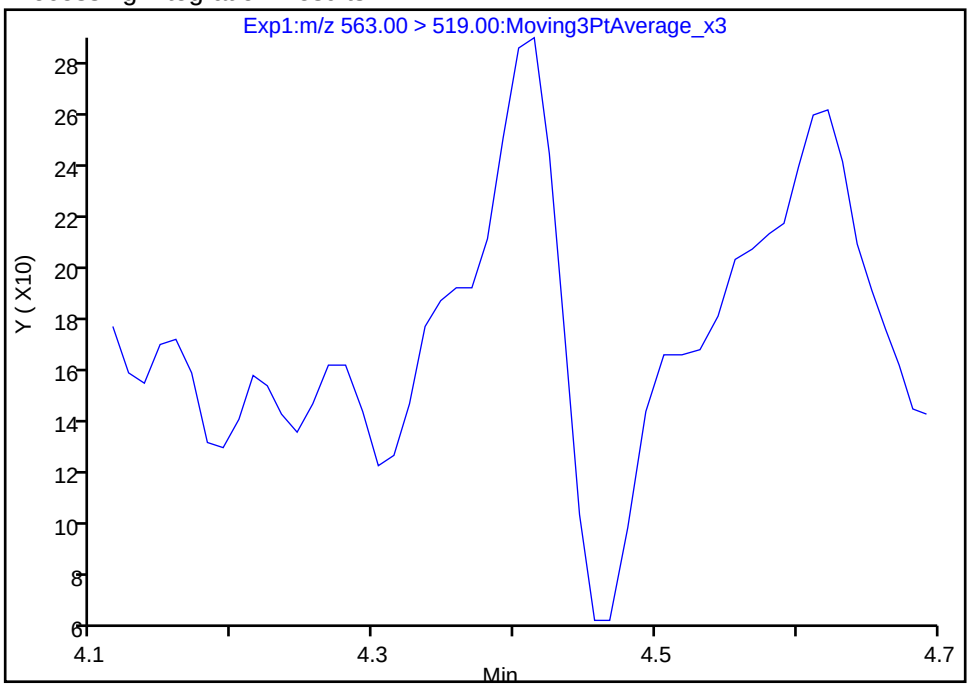
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

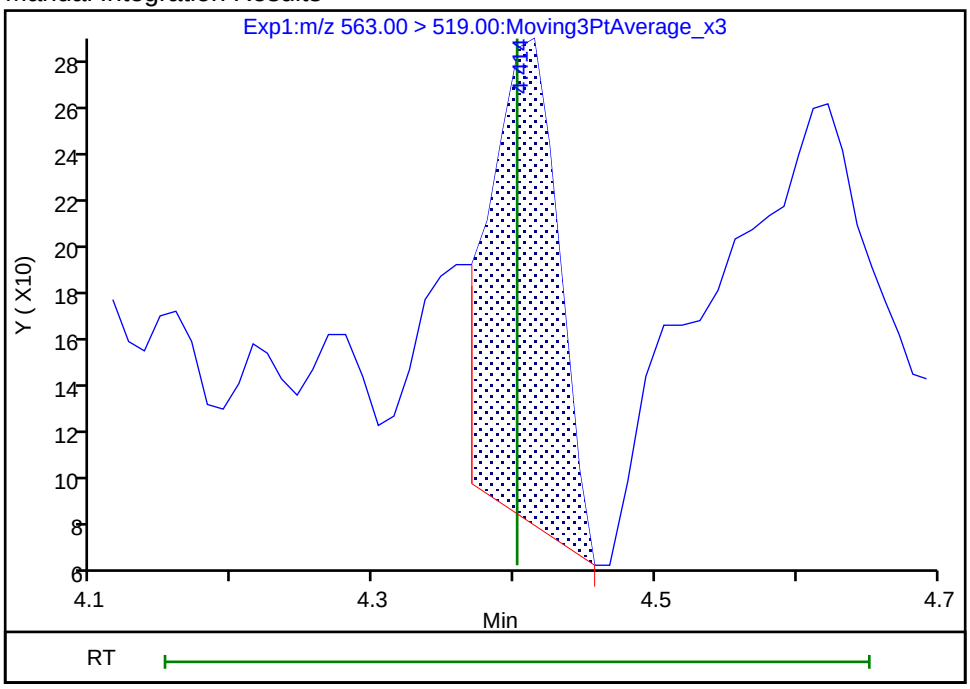
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 683
Amount: 0.000964
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:29:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

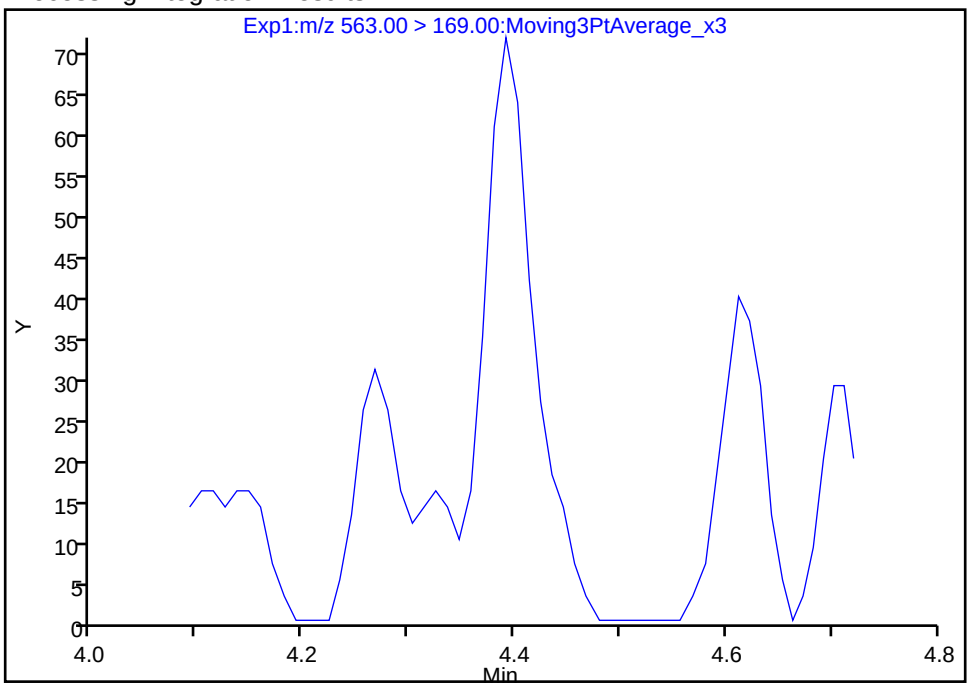
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

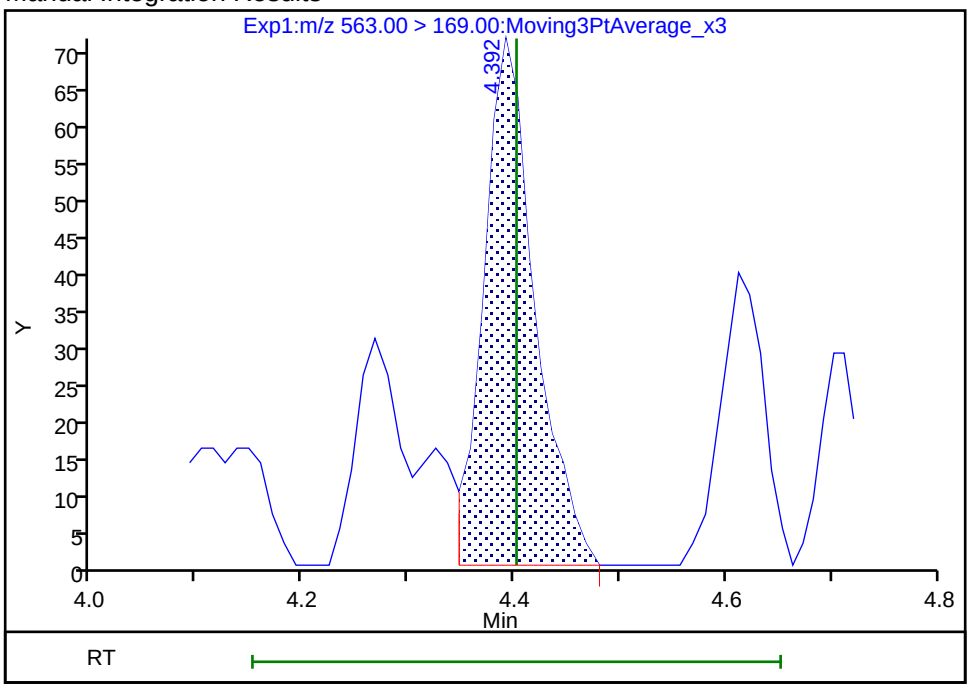
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 240
Amount: 0.000964
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:29:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

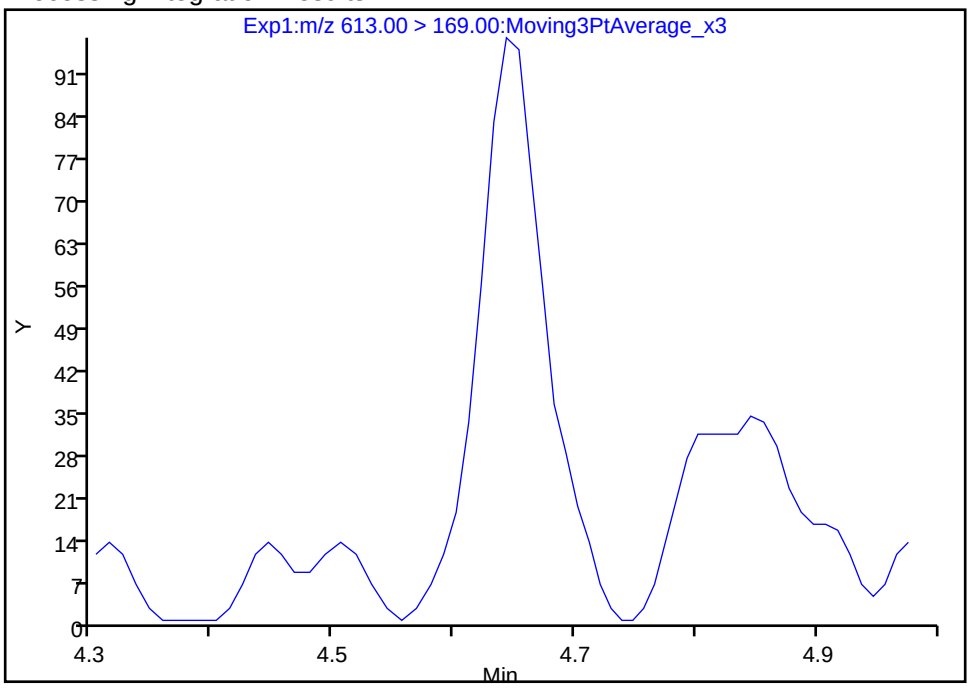
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

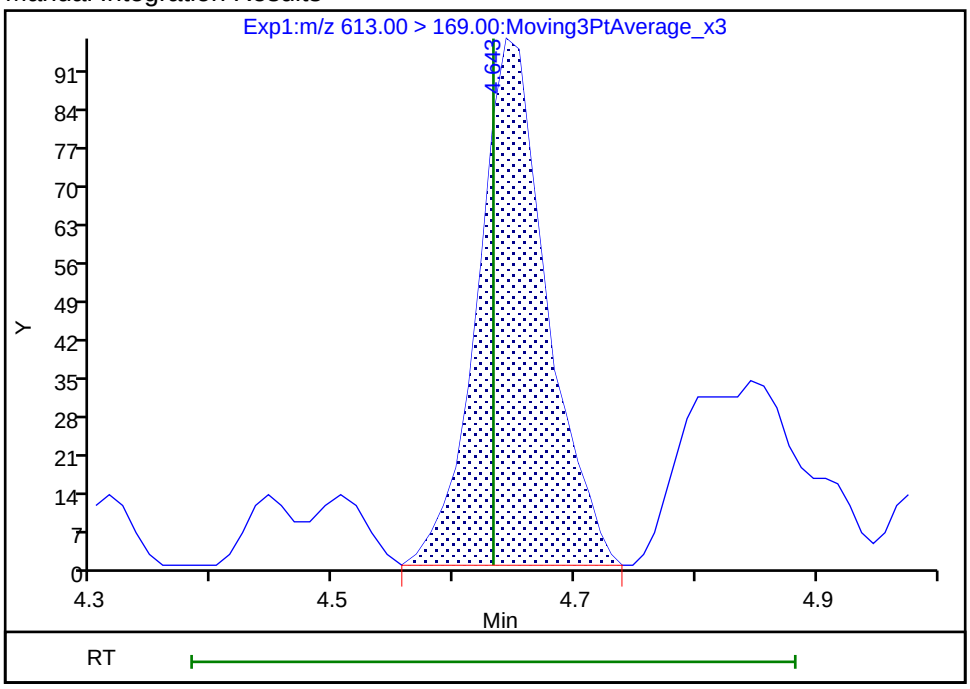
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 385
Amount: 0.001459
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:29:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

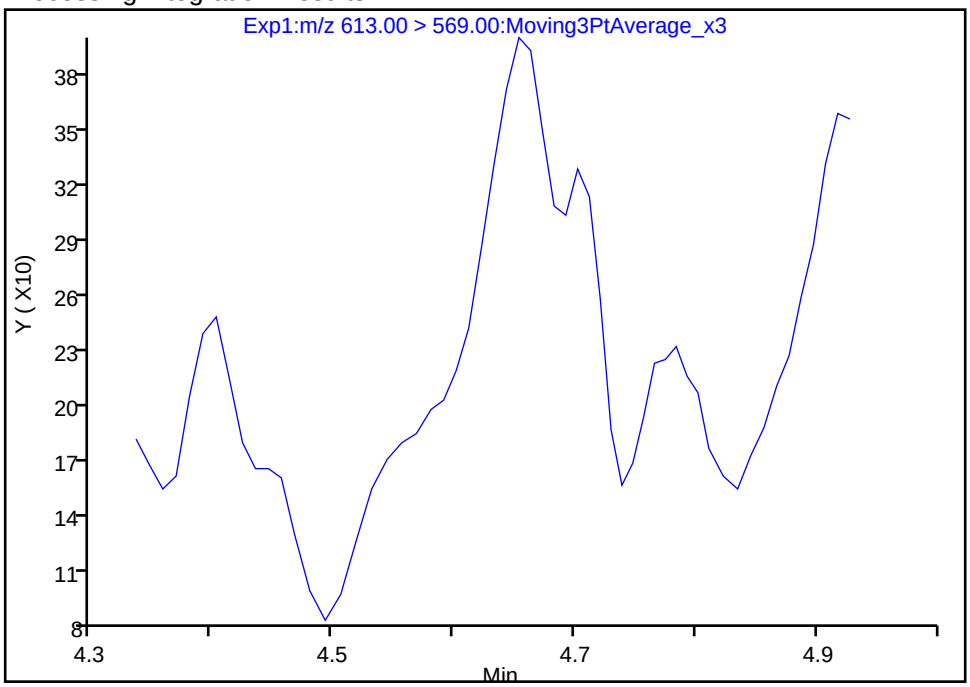
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

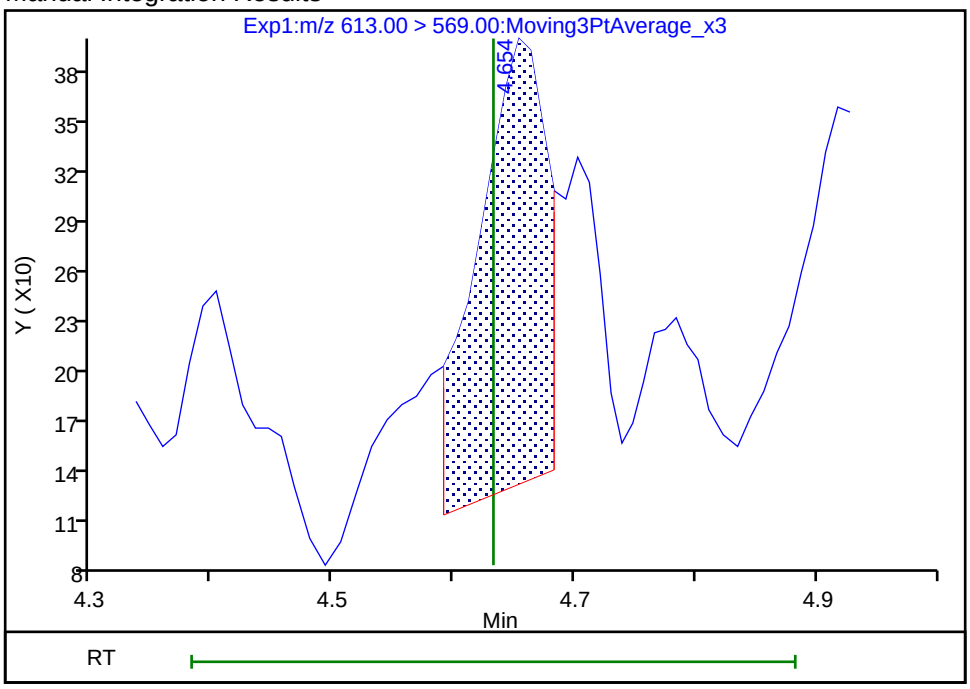
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.65
Area: 1027
Amount: 0.001459
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:29:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

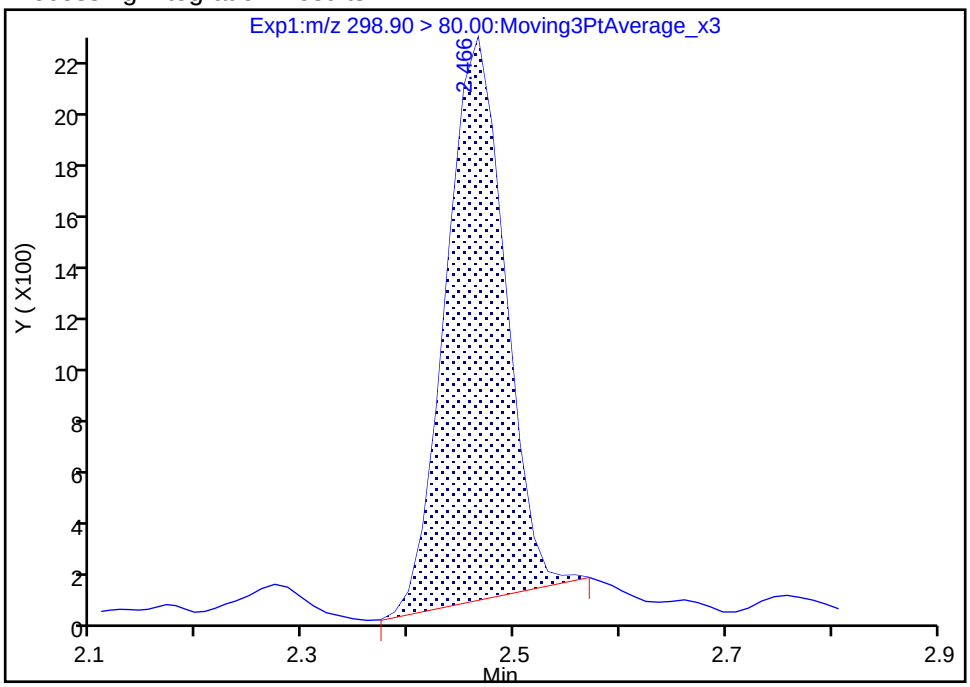
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

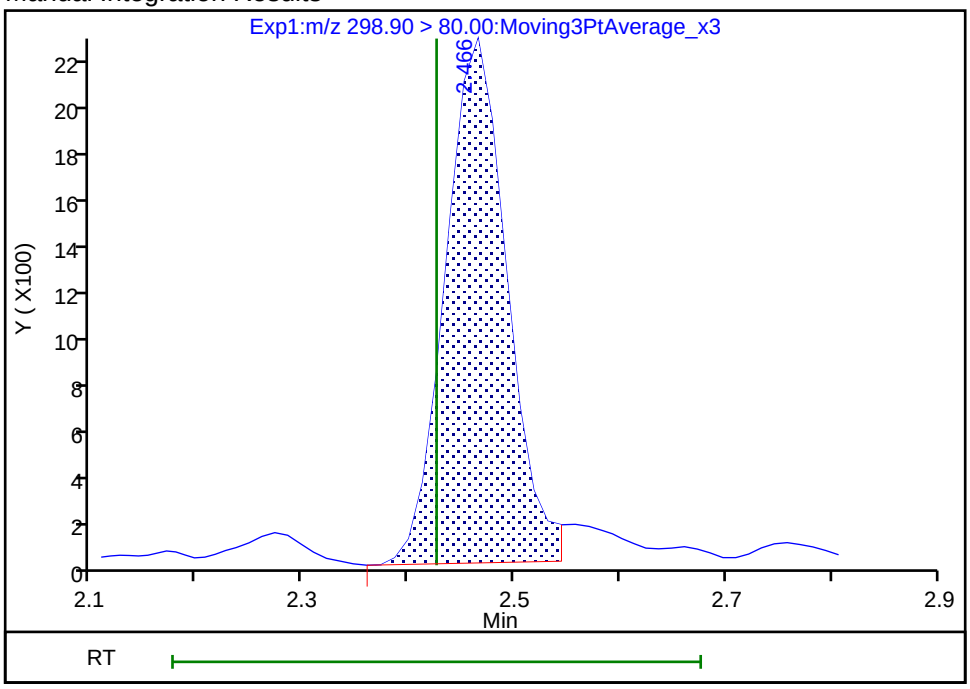
Processing Integration Results

RT: 2.47
Area: 8301
Amount: 0.006802
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 8905
Amount: 0.007296
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:24:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

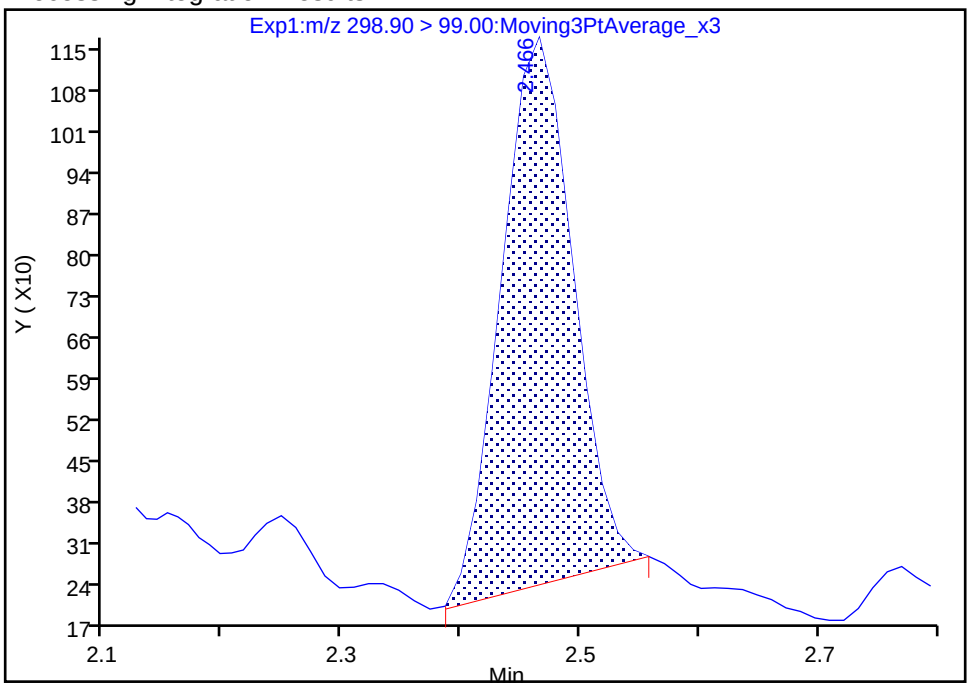
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

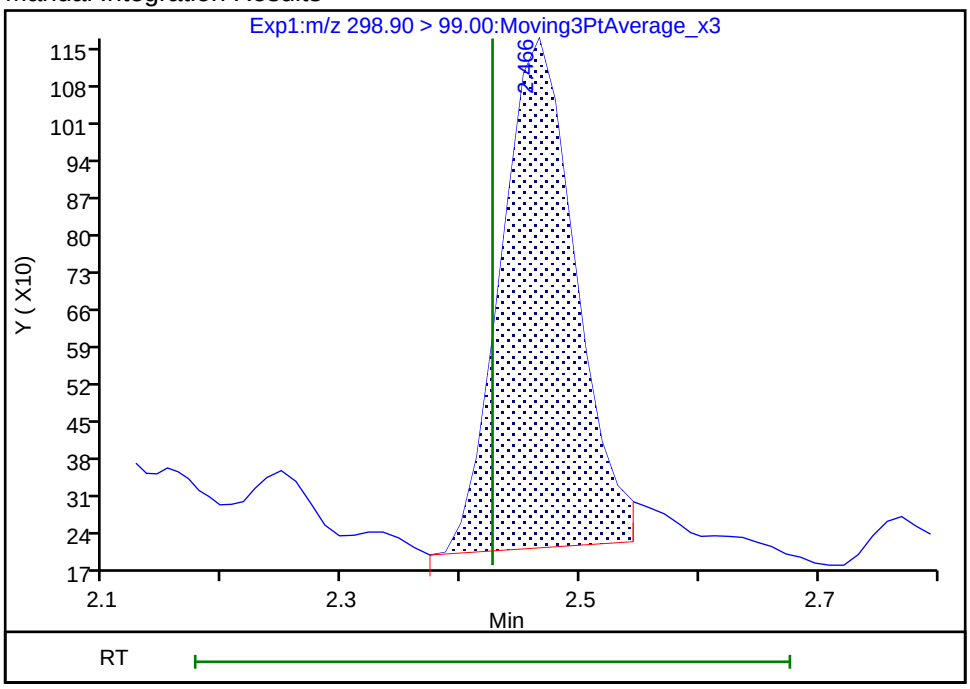
Processing Integration Results

RT: 2.47
Area: 3895
Amount: 0.006802
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 4151
Amount: 0.007296
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:24:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

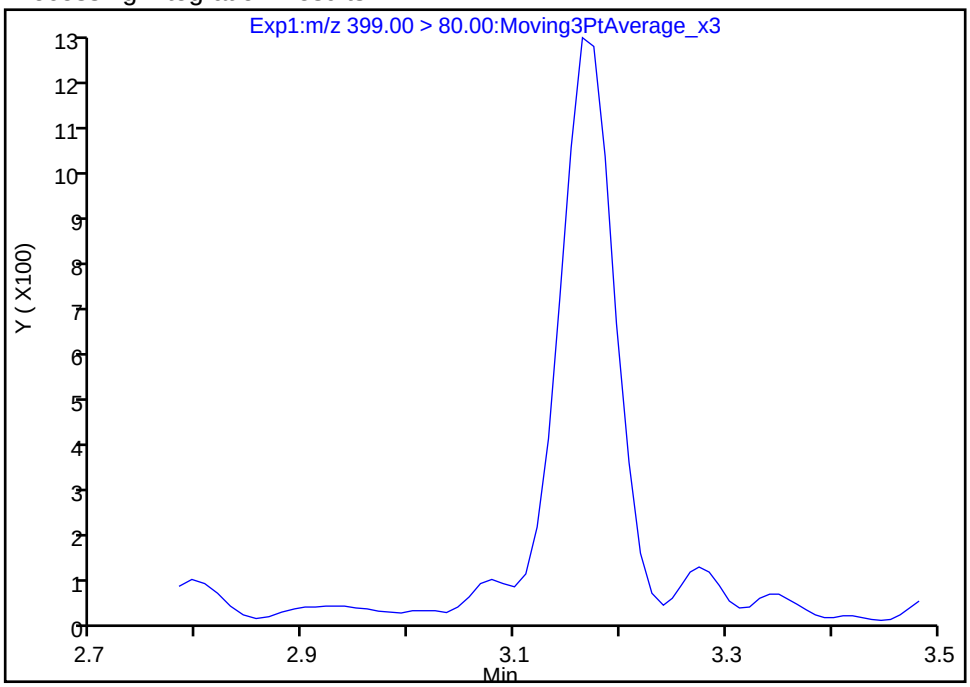
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

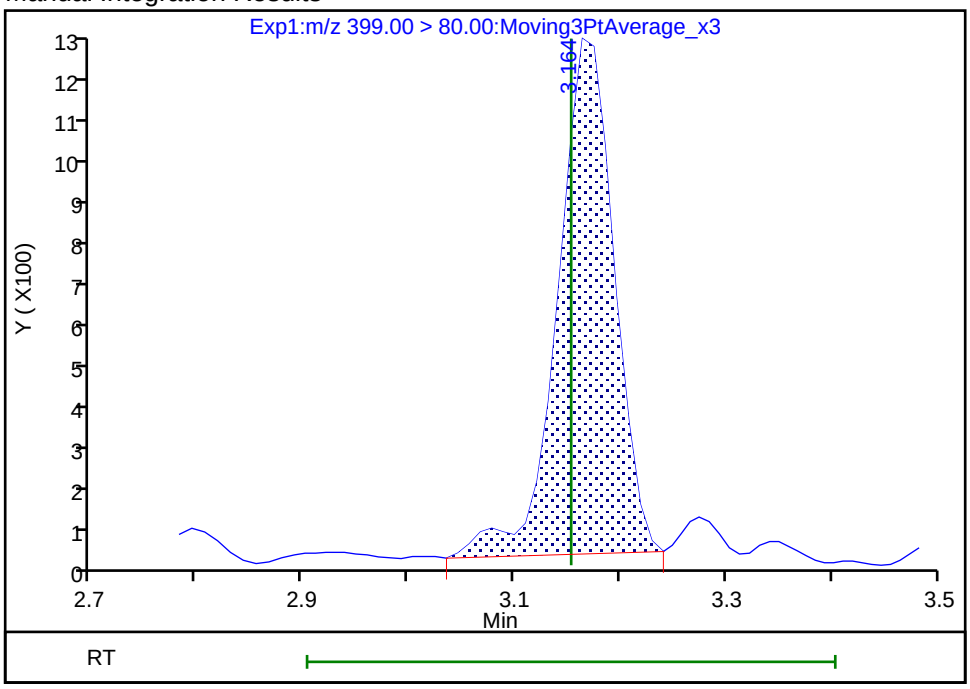
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 4602
Amount: 0.004613
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:25:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

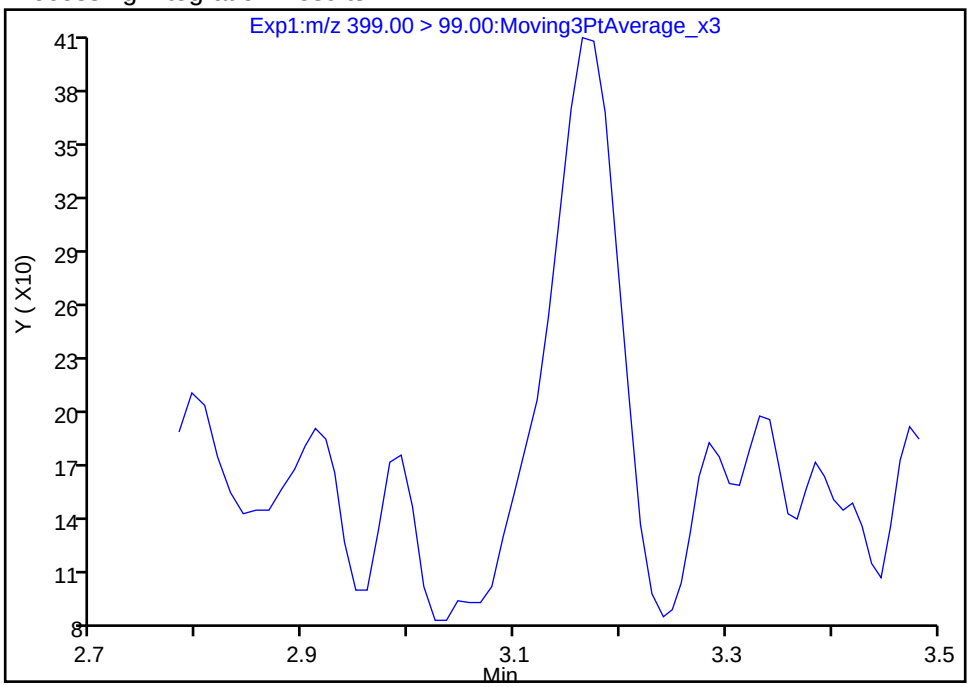
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

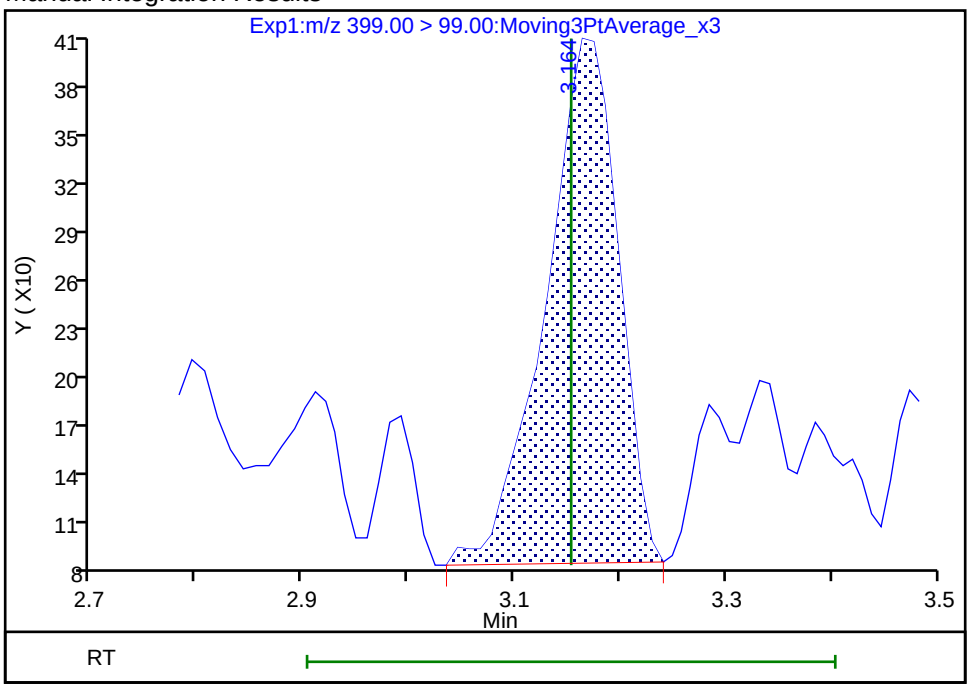
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 1560
Amount: 0.004613
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:25:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

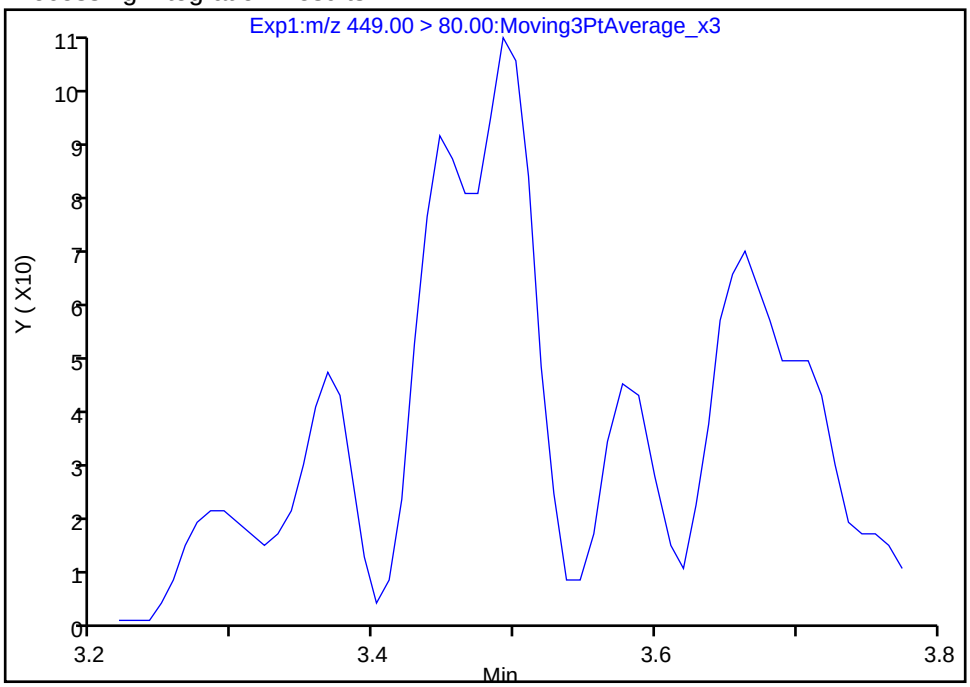
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d		
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13
Client ID:	FB-080321		
Operator ID:	lc812tech	ALS Bottle#:	16 Worklist Smp#: 19
Injection Vol:	20.0 ul	Dil. 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

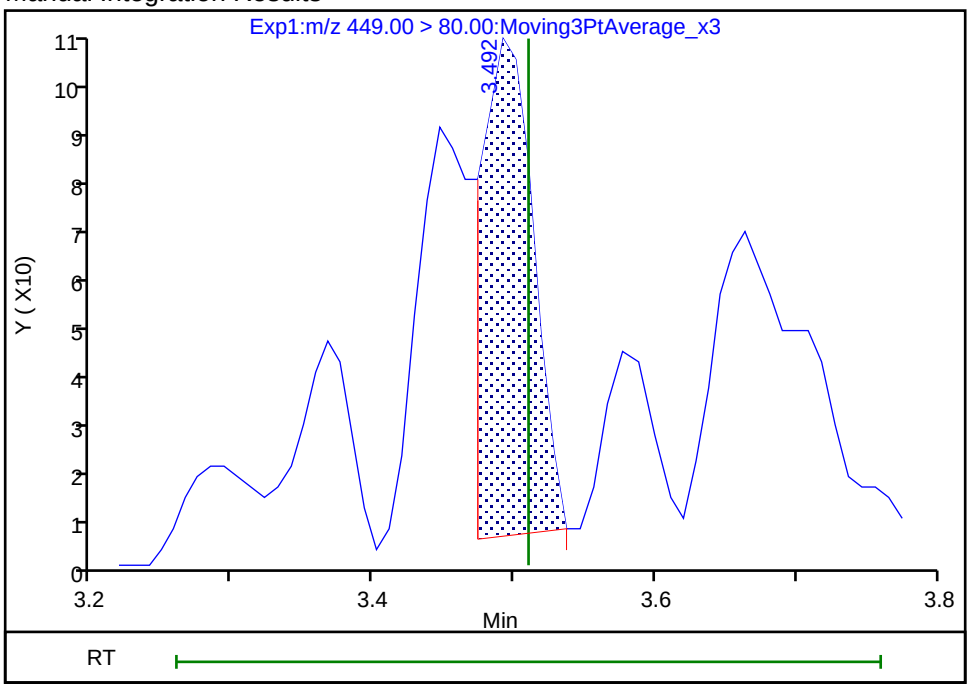
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 230
Amount: 0.000304
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:26:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

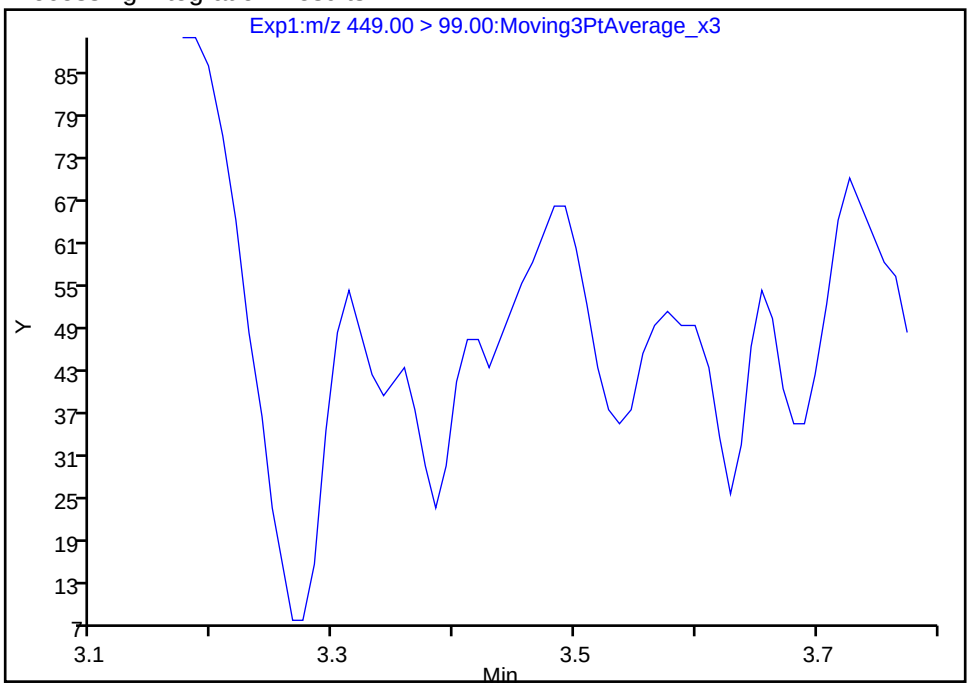
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

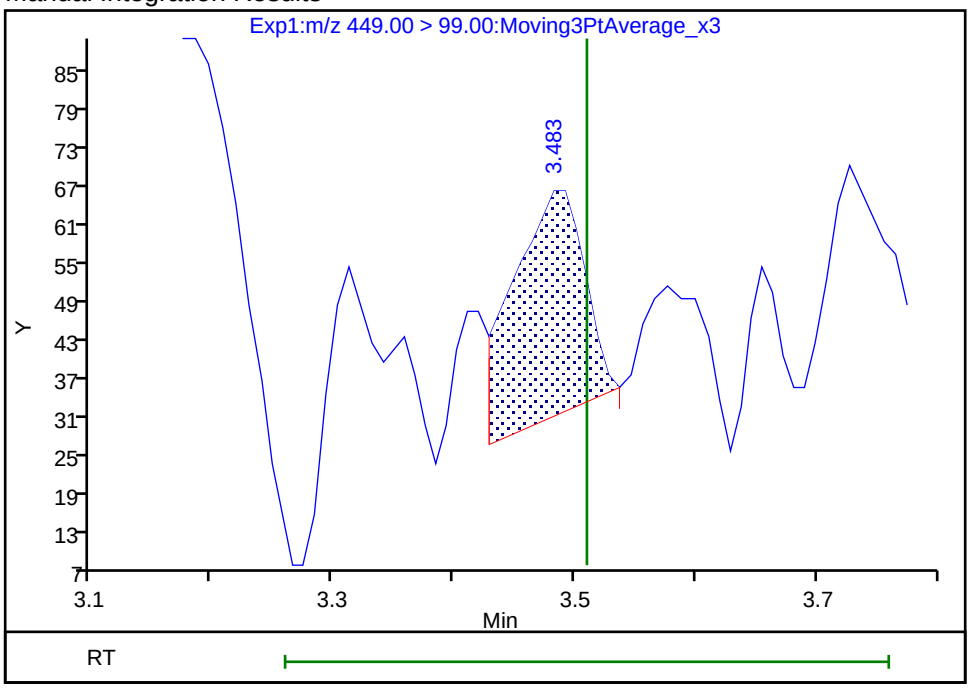
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 145
Amount: 0.000304
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:26:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

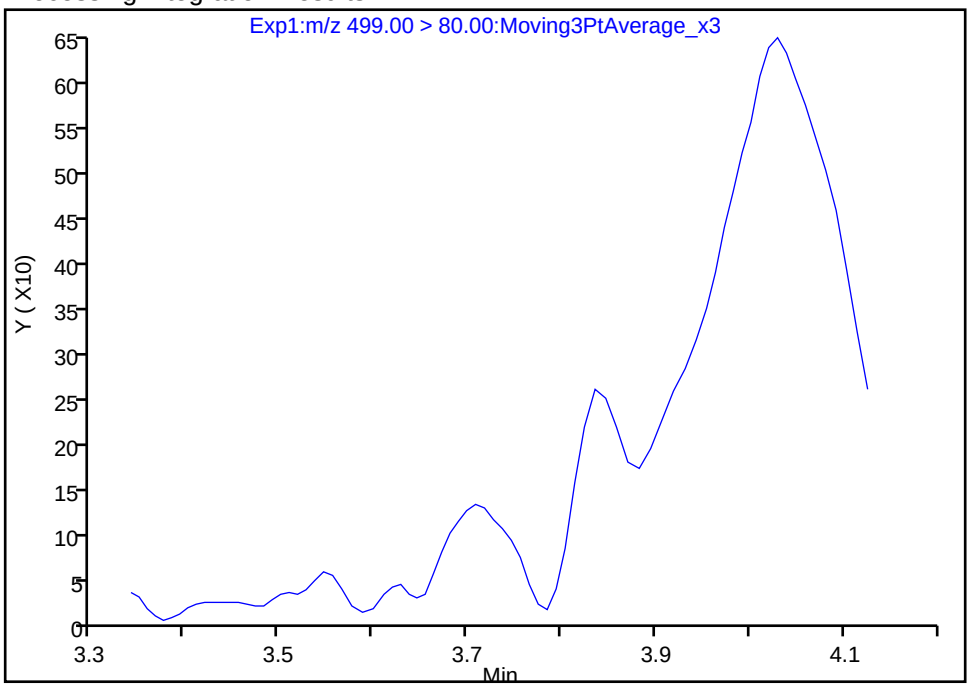
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

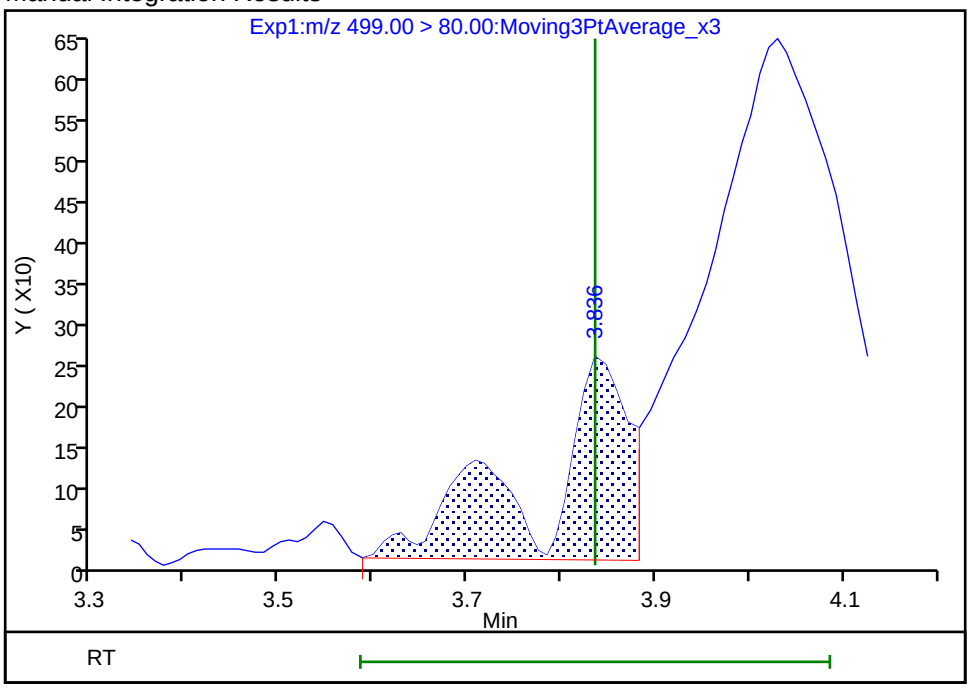
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.84
Area: 1612
Amount: 0.002366
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:27:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

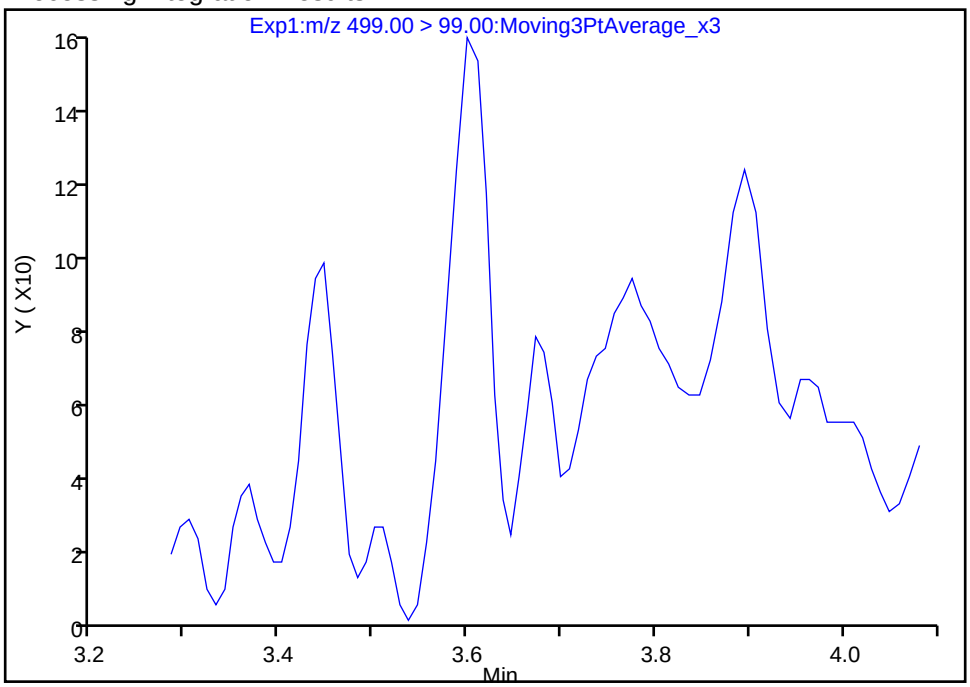
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

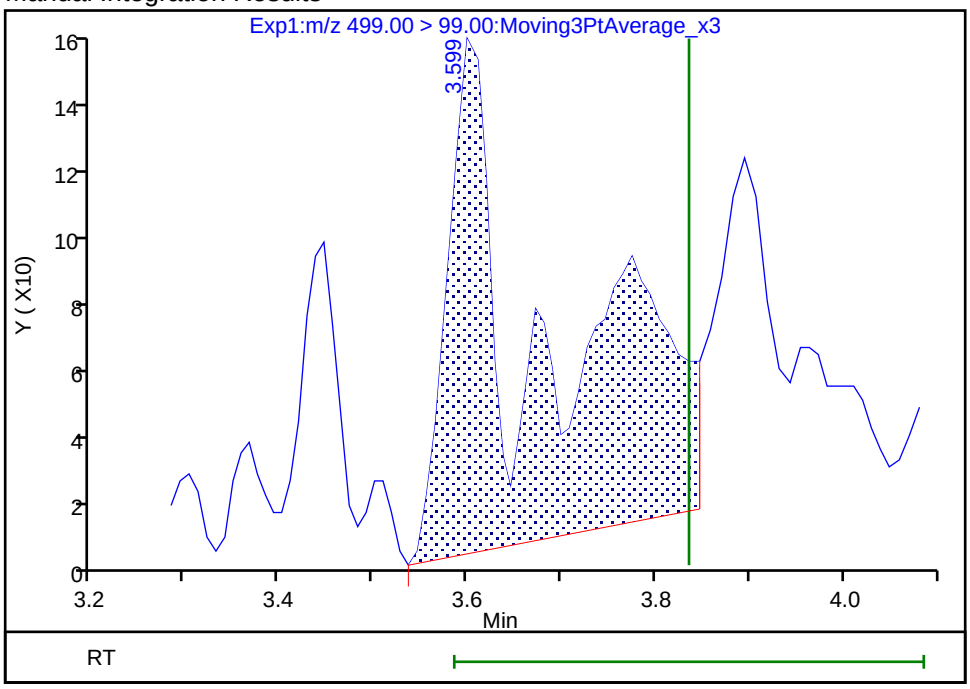
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.60
Area: 1081
Amount: 0.002366
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:27:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

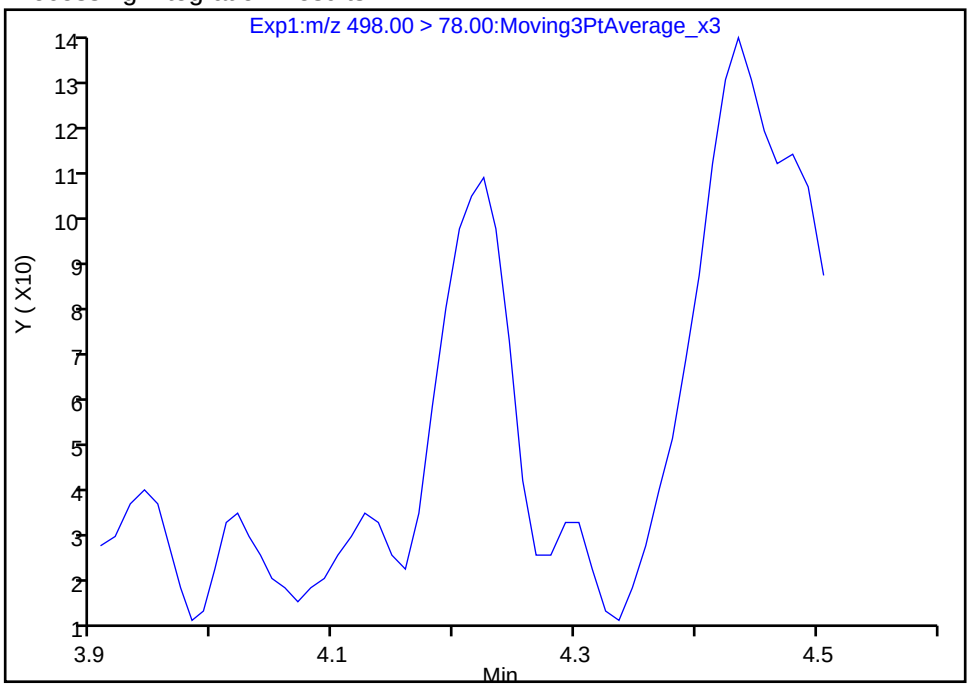
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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

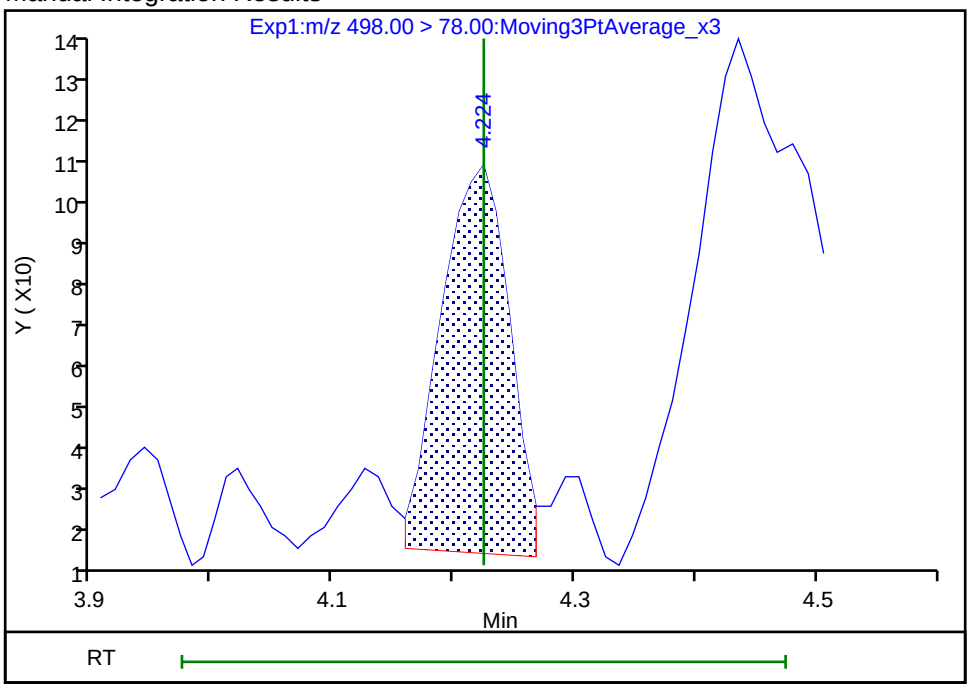
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22
Area: 359
Amount: 0.000429
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:29:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

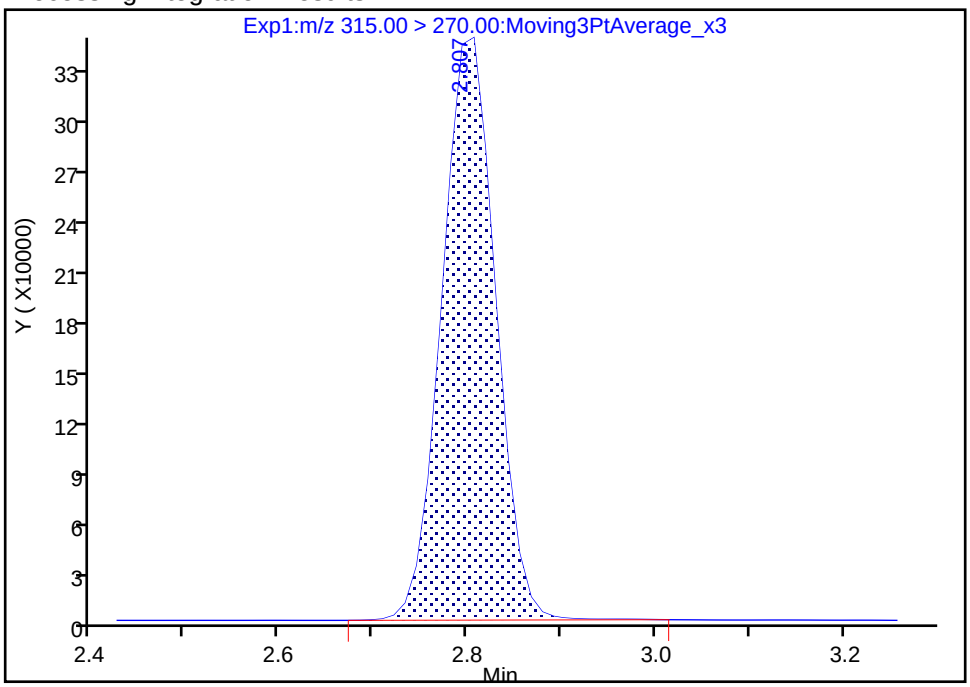
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

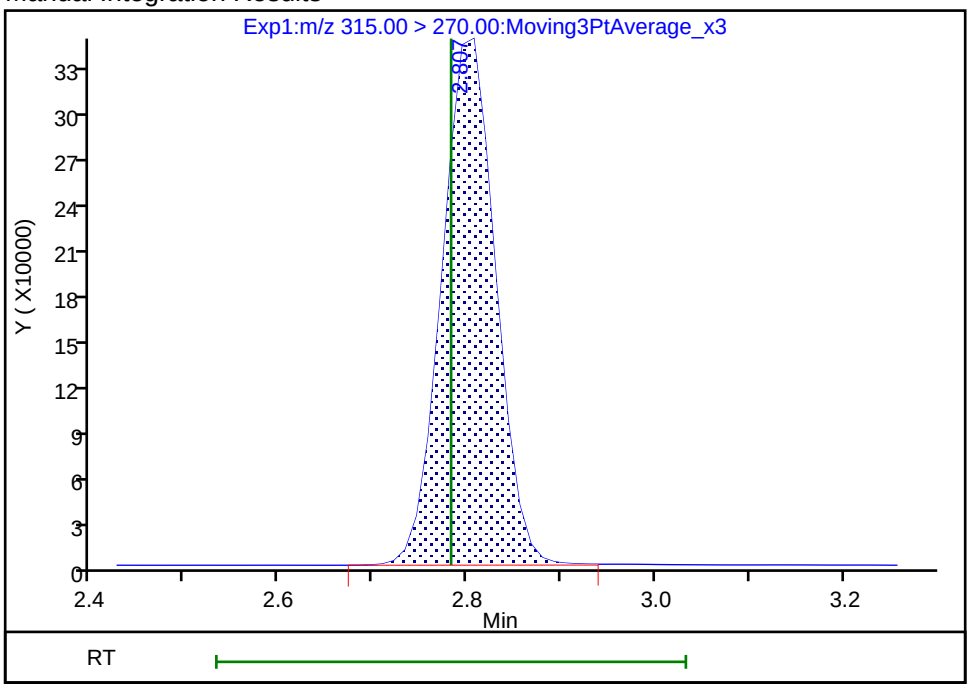
Processing Integration Results

RT: 2.81
Area: 1388396
Amount: 1.279000
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 1388625
Amount: 1.278761
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:22:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

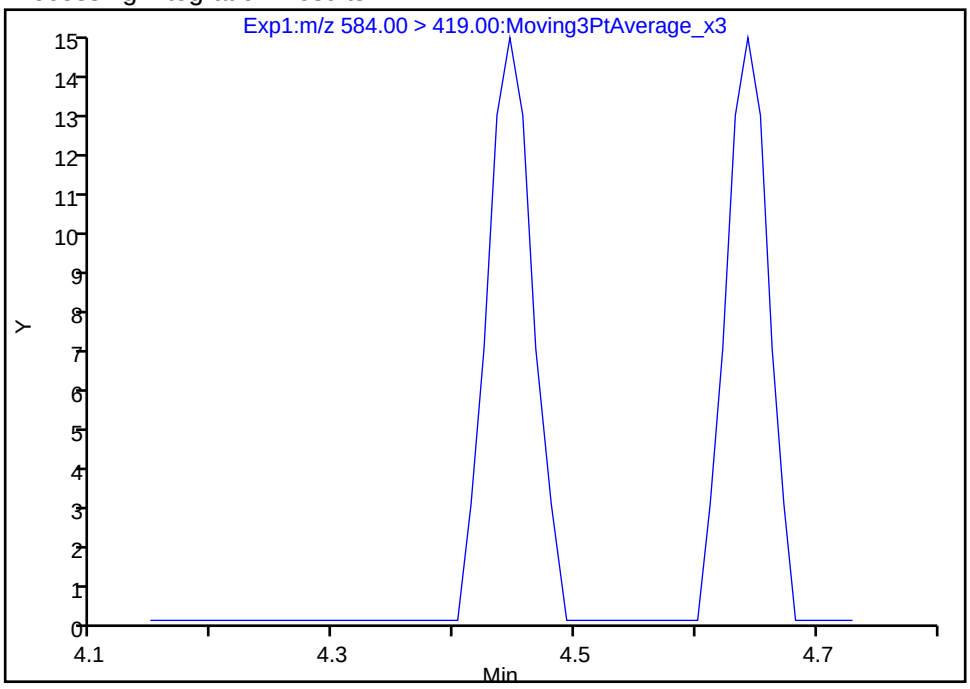
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

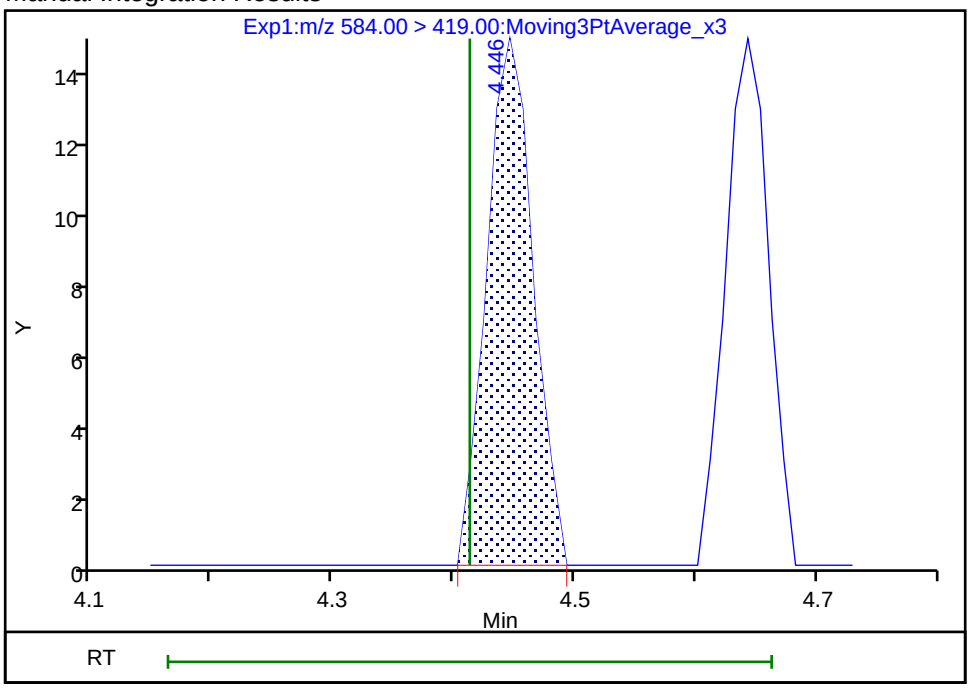
Processing Integration Results

Not Detected
Expected RT: 4.41



Manual Integration Results

RT: 4.45
Area: 40
Amount: 0.000688
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:29:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

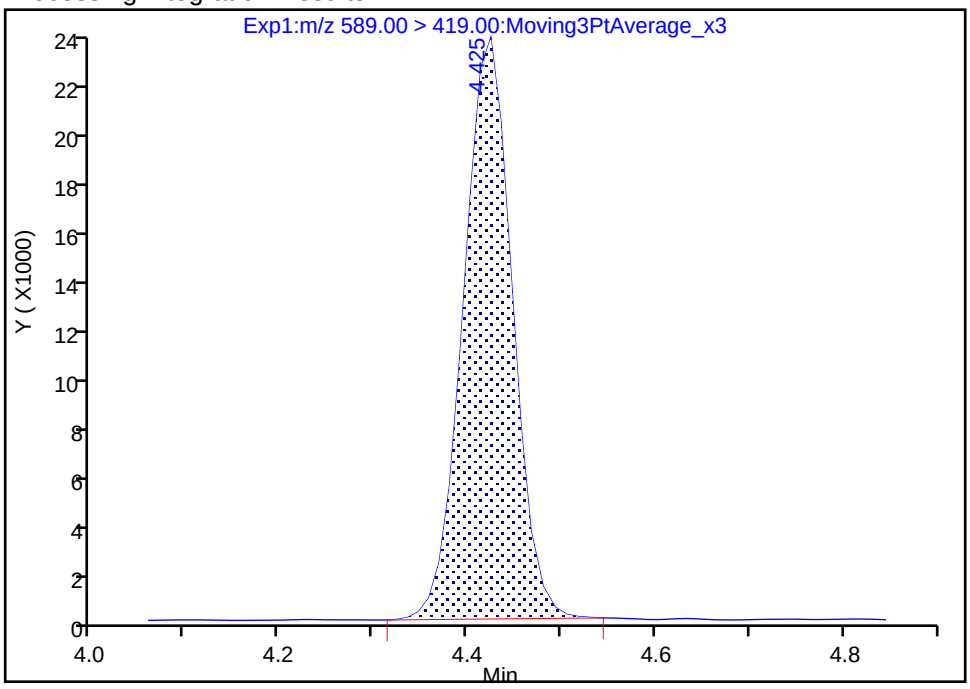
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

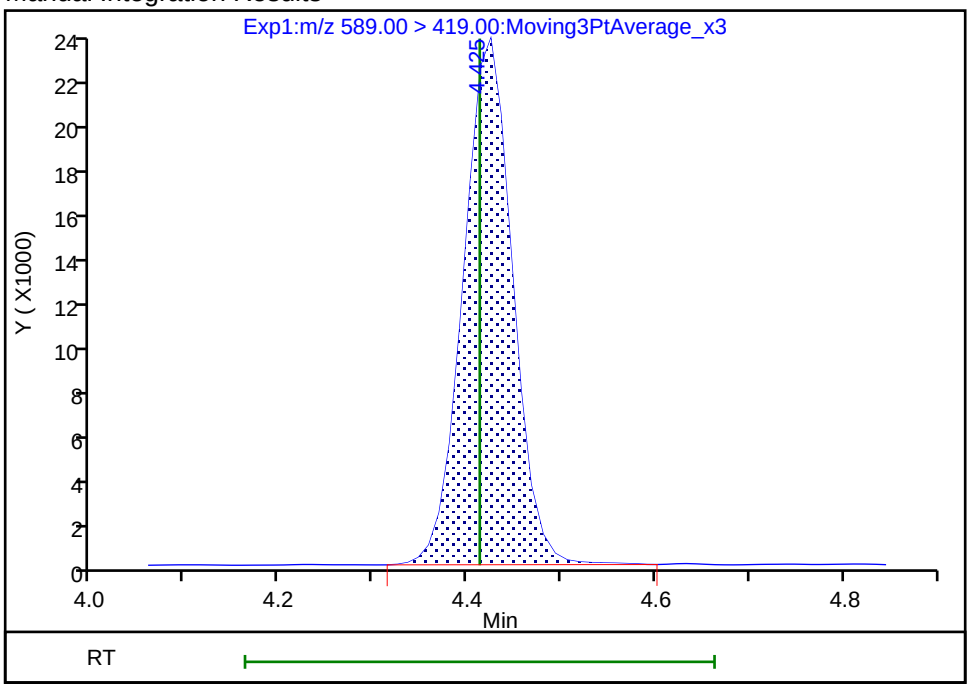
Processing Integration Results

RT: 4.42
Area: 85203
Amount: 1.149756
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 85814
Amount: 1.157593
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:23:25

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

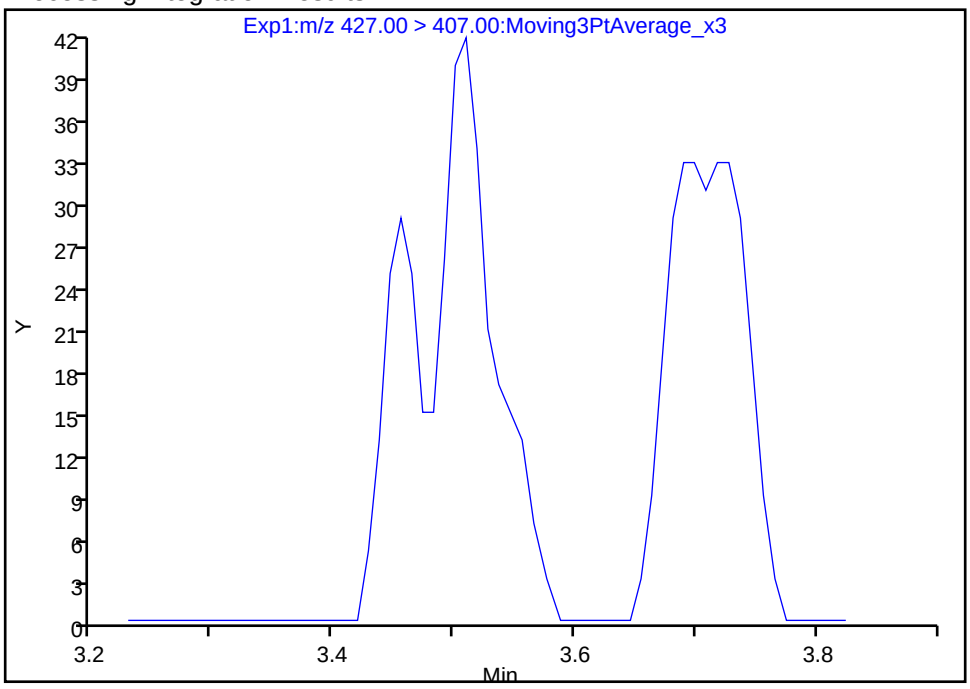
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

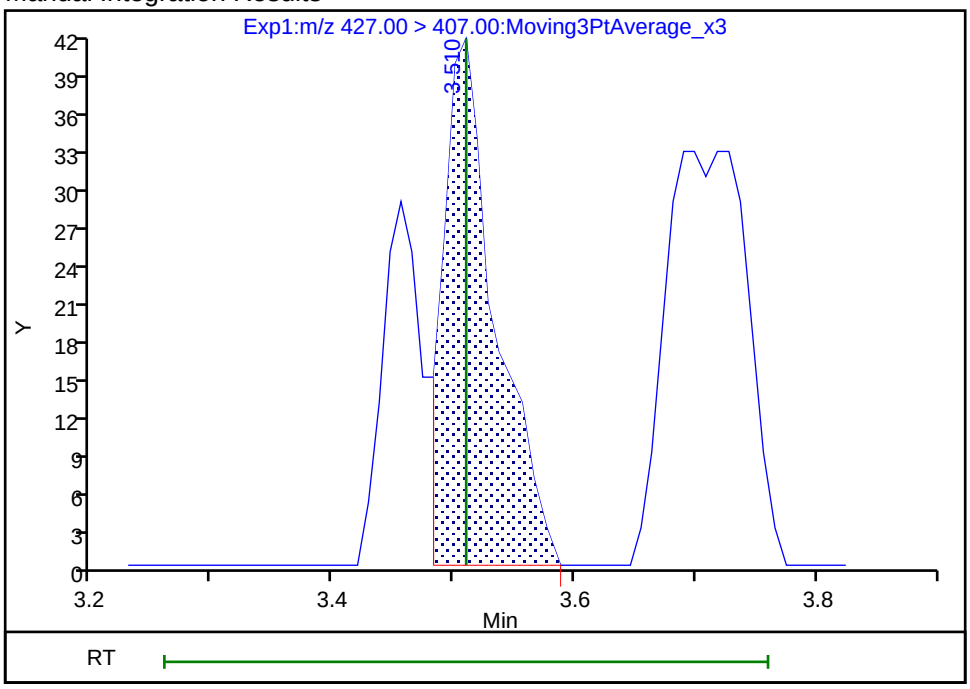
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 124
Amount: 0.000962
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:26:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

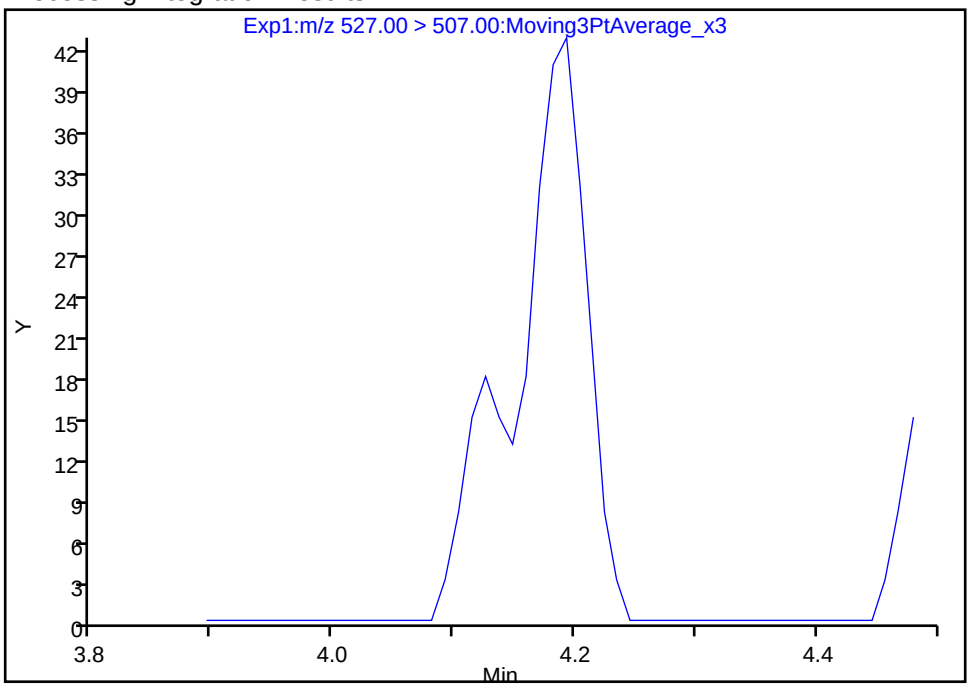
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 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-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

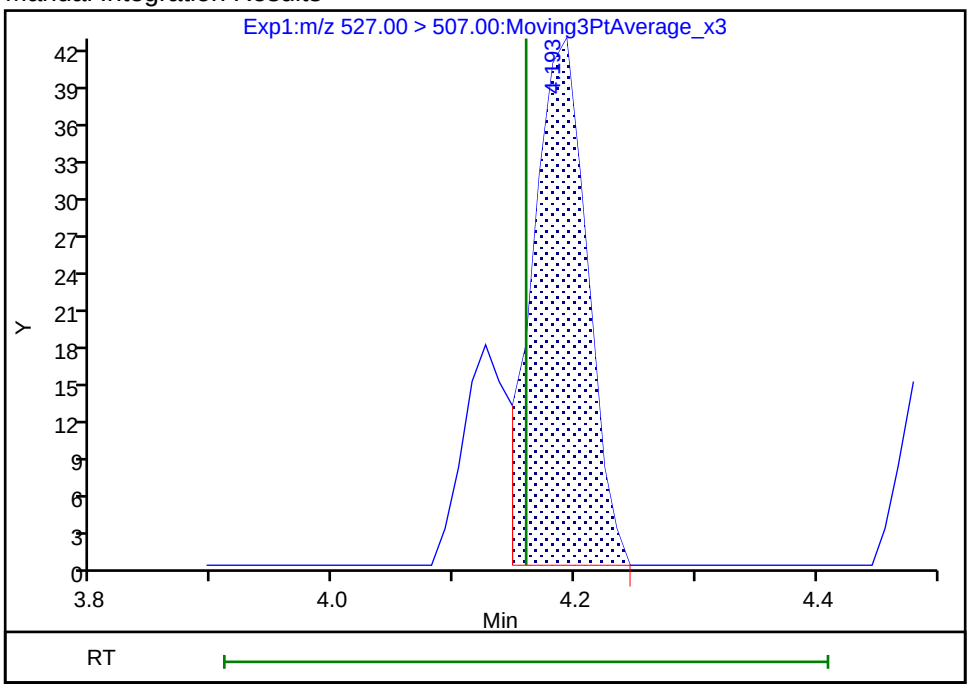
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.19
Area: 133
Amount: 0.001913
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:28:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

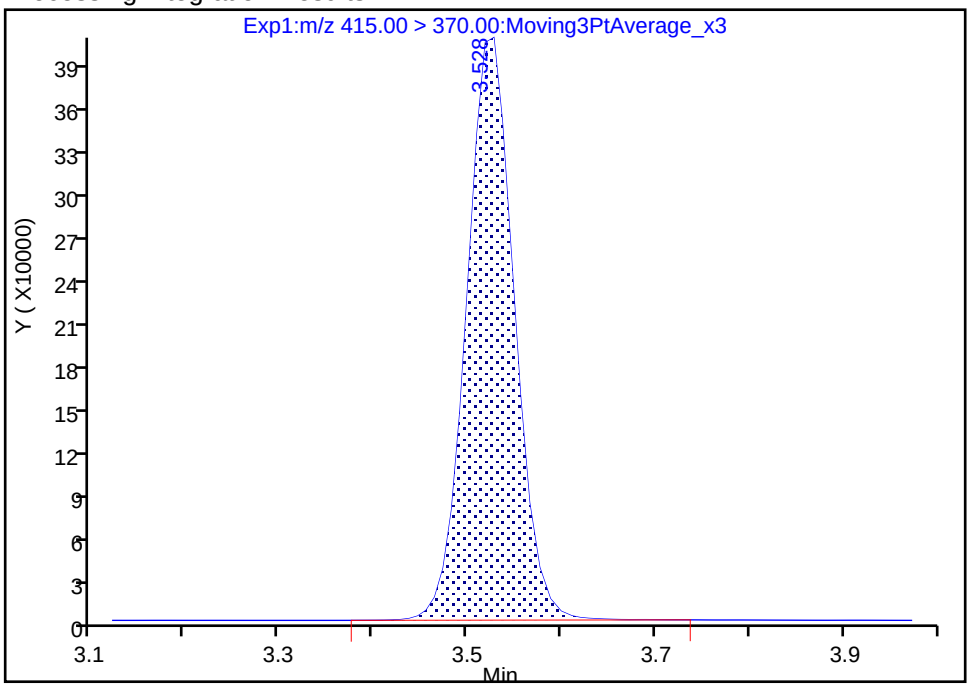
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A19.d				
Injection Date:	11-Aug-2021 15:14:43	Instrument ID:	LC812		
Lims ID:	480-188016-A-13-A	Lab Sample ID:	200-188016-13		
Client ID:	FB-080321				
Operator ID:	lc812tech	ALS Bottle#:	16	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

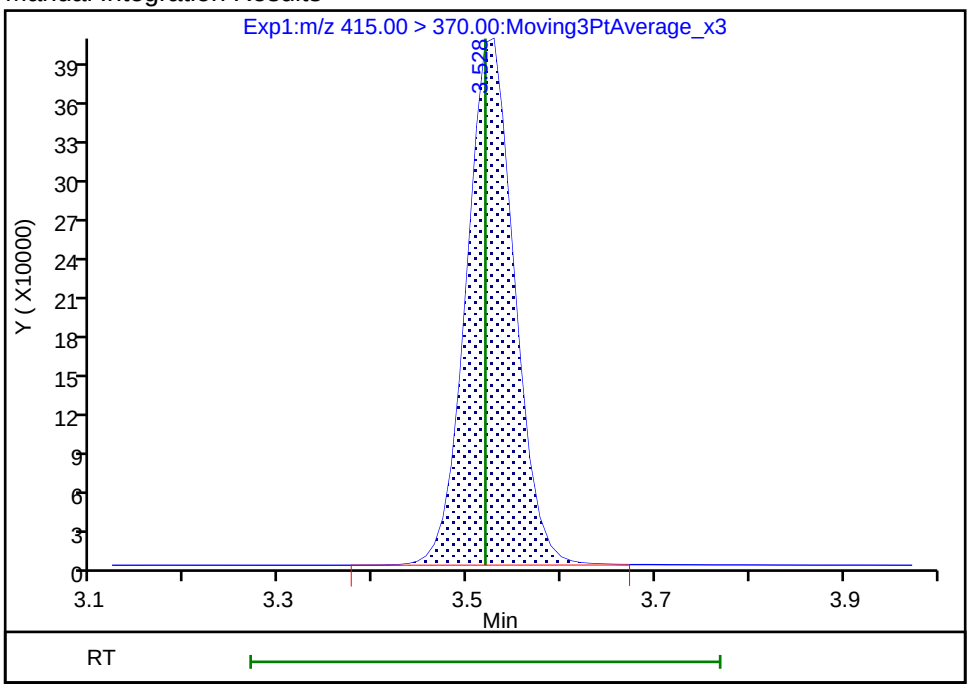
Processing Integration Results

RT: 3.53
Area: 1422324
Amount: 1.250000
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 1422825
Amount: 1.250000
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:23:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: EB-080321 Lab Sample ID: 480-188016-14

Matrix: Water Lab File ID: PA210811A20.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 16:45

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 279.5(mL) Date Analyzed: 08/11/2021 15:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.5	0.80
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	0.42
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.40
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.38
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.31
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.34
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.57
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.24	J B	1.8	0.22
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.27
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.21
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.27
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.26
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.52
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.81
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.66
27619-97-2	6:2 FTS	ND		4.5	0.98
39108-34-4	8:2 FTS	ND		1.8	0.35

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: EB-080321 Lab Sample ID: 480-188016-14

Matrix: Water Lab File ID: PA210811A20.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 16:45

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 279.5(mL) Date Analyzed: 08/11/2021 15:22

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	83		25-150
STL00992	13C4 PFBA	74		25-150
STL01893	13C5 PFPeA	100		25-150
STL00993	13C2 PFHxA	102		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	100		50-150
STL00995	13C5 PFNA	101		50-150
STL00996	13C2 PFDA	100		50-150
STL00997	13C2 PFUnA	94		50-150
STL00998	13C2 PFDoA	89		50-150
STL02116	13C2 PFTeDA	83		50-150
STL02337	13C3 PFBS	107		50-150
STL00994	18O2 PFHxS	104		50-150
STL00991	13C4 PFOS	100		50-150
STL02118	d3-NMeFOSAA	96		50-150
STL02117	d5-NEtFOSAA	90		50-150
STL02279	M2-6:2 FTS	107		25-150
STL02280	M2-8:2 FTS	95		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d
Lims ID: 480-188016-A-14-A
Client ID: EB-080321
Sample Type: Client
Inject. Date: 11-Aug-2021 15:22:59 ALS Bottle#: 17 Worklist Smp#: 20
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-A-14-A
Misc. Info.: 200-0047128-020 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:32:14 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 10:39:16
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	2.100	2.082	0.018	0.597	1192714	0.9234		73.9	7426	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.118	2.082	0.036	1.008	6845	0.007444			0.8	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.693	1223322	1.25		100	3665	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.439	2.413	0.026	1.000	3485	0.003441			0.4	M
D 47 13C3 PFBS										
301.90 > 80.00	2.453	2.426	0.026	0.697	1284536	1.24		107	464154	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.466	2.426	0.040	1.005	8024	0.006723	Target=2.20		25.3	M
298.90 > 99.00	2.466	2.426	0.040	1.005	4320		1.86(1.10-3.30)		4.3	
D 7 13C2 PFHxA										M
315.00 > 270.00	2.795	2.782	0.013	0.794	1372588	1.27		102	3944	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.795	2.782	0.013	1.000	5832	0.005279	Target=12.93		1.9	M
313.00 > 119.00	2.795	2.782	0.013	1.000	413		14.12(6.46-19.39)		1.1	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.164	3.154	0.010	0.899	1012488	1.23		104	2406	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.164	3.154	0.010	1.000	3929	0.003966	Target=4.48		23.5	M
399.00 > 99.00	3.164	3.154	0.010	1.000	1043		3.77(2.24-6.72)		2.1	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.164	3.154	0.010	1.000	2553	0.002321	Target=3.68		1.1	
363.00 > 169.00	3.175	3.154	0.021	1.003	622		4.10(1.84-5.53)		2.7	M
D 9 13C4 PFHpA										M
367.00 > 322.00	3.164	3.154	0.010	0.899	1329954	1.23		98.6	2114	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										M
429.00 > 81.00	3.510	3.510	0.0	0.997	145270	1.27		107	599	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.510	3.510	0.0	1.000	243	0.001917			4.3	M
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1396423	1.25		100	3289	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1410813	1.25			3998	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.519	3.519	0.0	1.000	1949	0.001658	Target=2.67		0.8	M
413.00 > 169.00	3.528	3.519	0.009	1.003	876		2.22(1.33-4.00)		4.1	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	715931	1.19		99.8	3386	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.847	3.836	0.011	1.003	1215	0.001810	Target=6.69		0.9	RM
499.00 > 99.00	3.804	3.836	-0.032	0.992	800		1.52(3.34-10.03)		1.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.097	1332956	1.26		101	2741	
D 23 13C2 PFDA										
515.00 > 470.00	4.148	4.148	0.0	1.179	1199878	1.25		100.0	3046	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.148	4.148	0.0	1.000	1091	0.001068	Target=8.42		1.3	RM
513.00 > 169.00	4.148	4.148	0.0	1.000	449		2.43(4.21-12.63)		2.9	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.160	4.160	0.0	1.000	46	0.000714			1.5	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.160	4.160	0.0	1.182	154930	1.14		95.2	751	M
D 21 13C8 FOSA										
506.00 > 78.00	4.235	4.224	0.011	1.203	1102534	1.04		83.3	2137	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.246	4.224	0.022	1.003	469	0.000544			4.3	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.291	4.280	0.011	1.219	84404	1.20		95.6	972	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.280	4.291	-0.011	0.997	86	0.001532			0.8	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.335	4.369	-0.034	1.130	108	0.000285	Target=2.66		1.2	M
599.00 > 99.00	4.369	4.369	0.0	1.139	70		1.54(1.33-3.99)		1.4	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.254	890424	1.17		93.5	4003	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.413	0.011	1.257	83128	1.13		90.5	856	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.413	0.0	0.998	152	0.002698			5.9	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.643	4.632	0.011	1.319	878103	1.12		89.2	3242	

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	4.633	4.632	0.0	0.998	966	0.001362	Target=6.31		0.5	M
613.00 > 169.00	4.653	4.632	0.021	1.002	234		4.13(3.15-9.46)		4.1	M
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.856	4.845	0.011	1.046	925	0.001513	Target=4.61		0.4	RM
663.00 > 169.00	4.856	4.845	0.011	1.046	108		8.56(2.31-6.92)		2.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.044	5.034	0.010	1.433	641226	1.04		83.1	4093	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	5.034	5.034	0.0	0.998	275	0.003119	Target=1.00		5.4	RM
713.00 > 219.00	5.044	5.034	0.010	1.000	141		1.95(0.50-1.51)		9.2	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:32:46 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d

Injection Date: 11-Aug-2021 15:22:59 Instrument ID: LC812

Lims ID: 480-188016-A-14-A Lab Sample ID: 200-188016-14

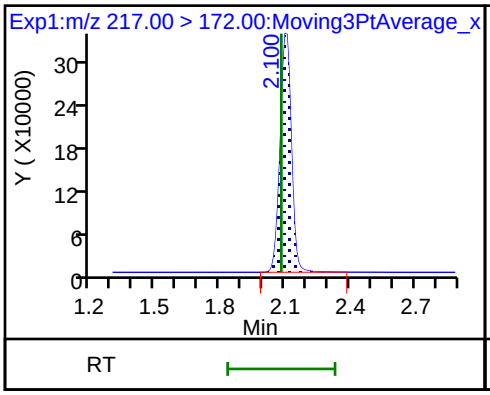
Client ID: EB-080321

Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 20

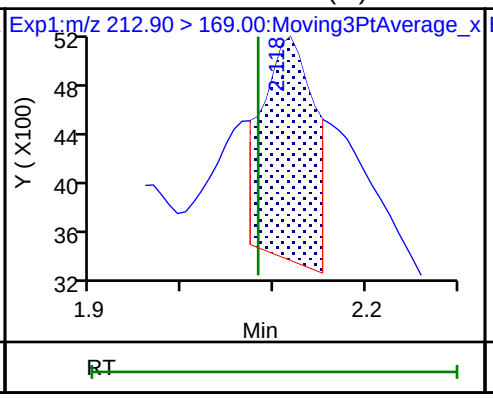
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

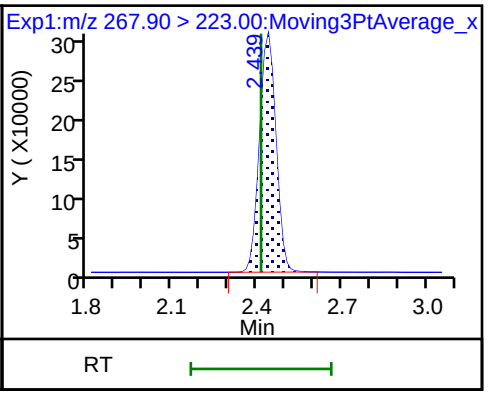
D 1 13C4 PFBA



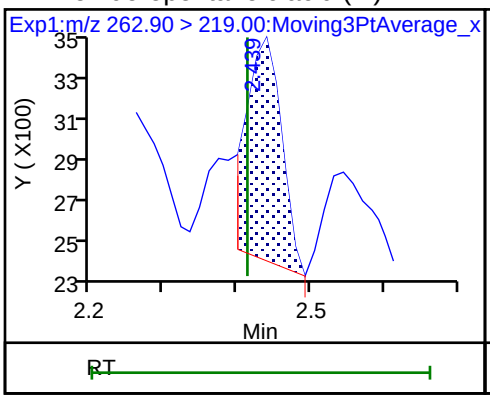
2 Perfluorobutanoic acid (M)



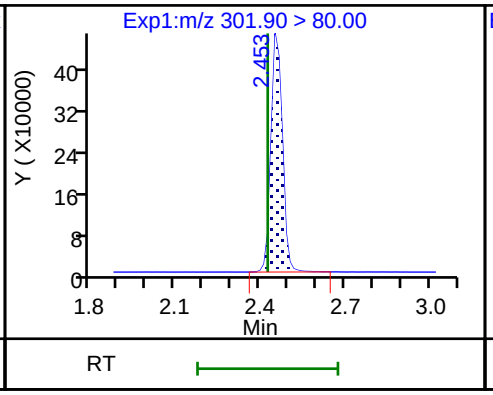
D 3 13C5 PFPeA



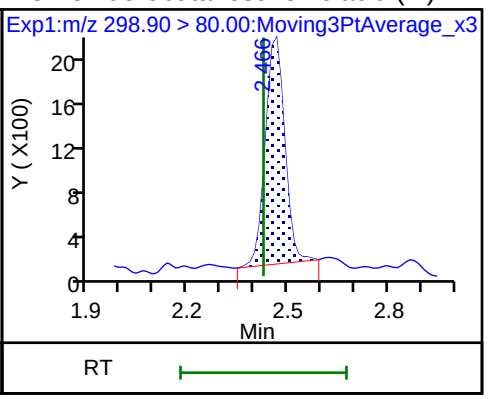
4 Perfluoropentanoic acid (M)



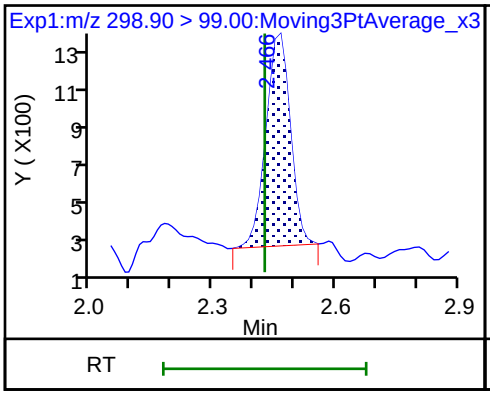
D 47 13C3 PFBS



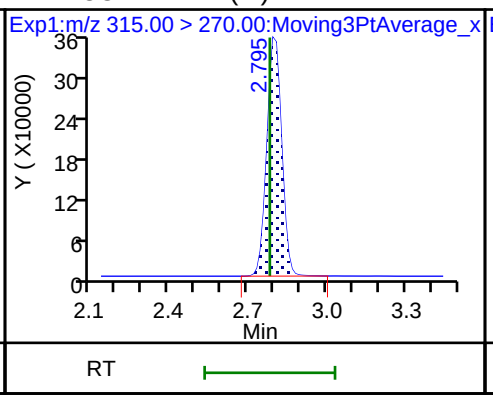
5 Perfluorobutanesulfonic acid (M)



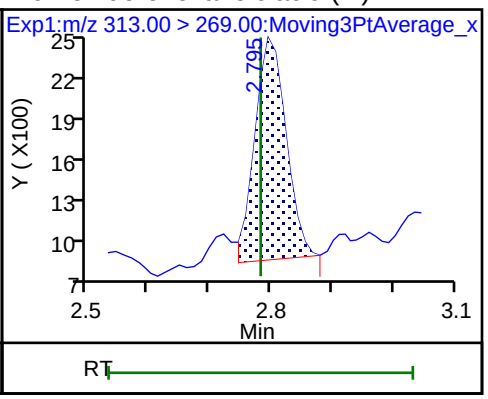
5 Perfluorobutanesulfonic acid



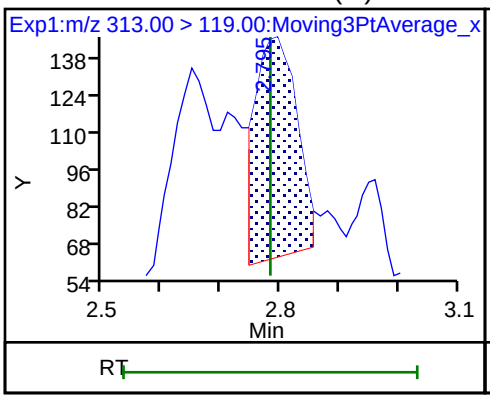
D 7 13C2 PFHxA (M)



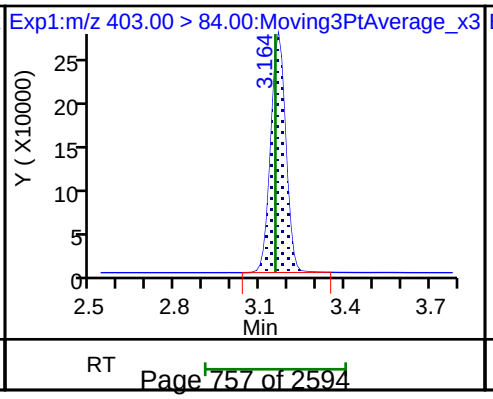
6 Perfluorohexanoic acid (M)



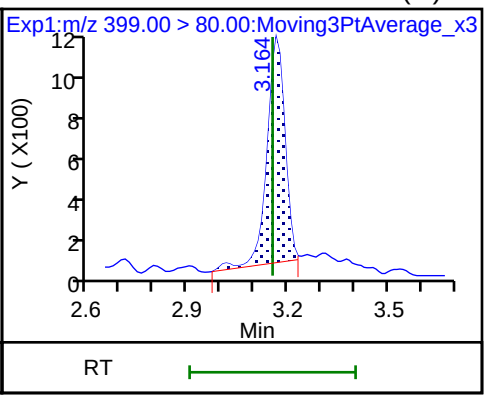
6 Perfluorohexanoic acid (M)



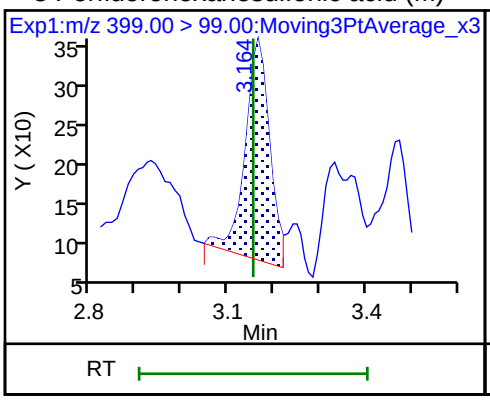
D 11 18O2 PFHxS



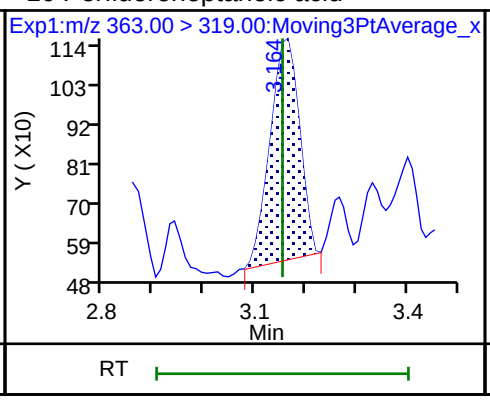
8 Perfluorohexanesulfonic acid (M)



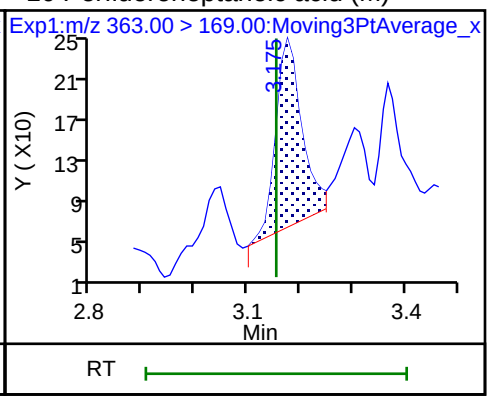
8 Perfluorohexanesulfonic acid (M)



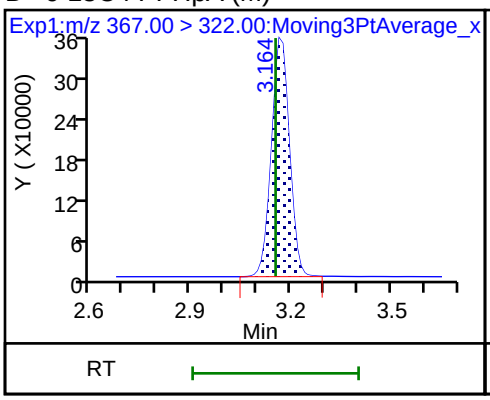
10 Perfluoroheptanoic acid



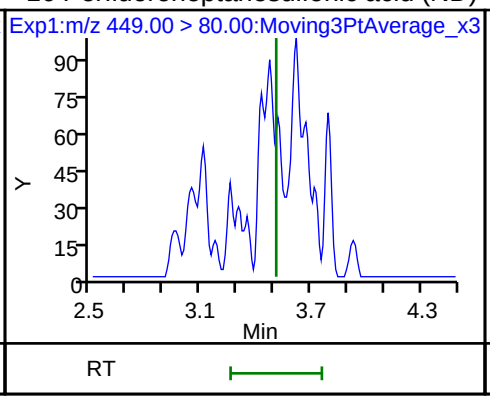
10 Perfluoroheptanoic acid (M)



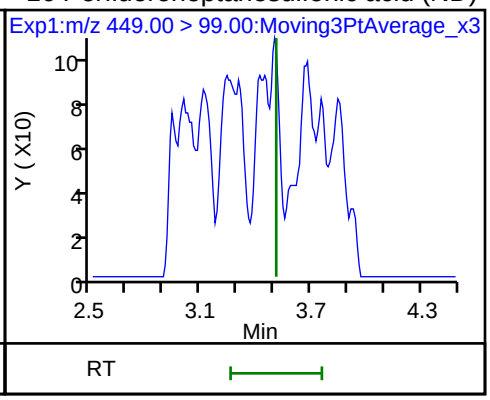
D 9 13C4 PFHpA (M)



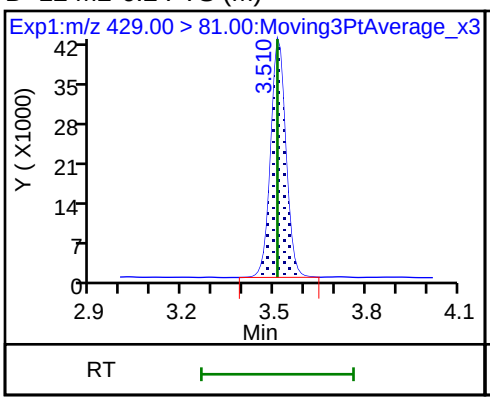
16 Perfluoroheptanesulfonic acid (ND)



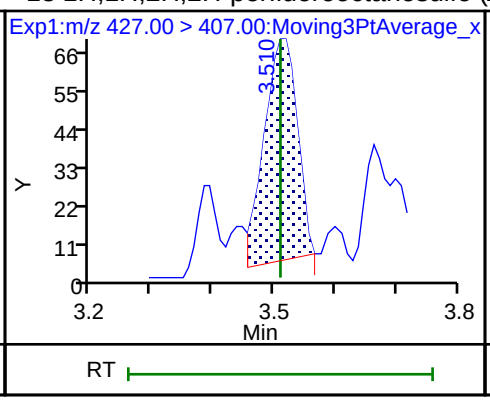
16 Perfluoroheptanesulfonic acid (ND)



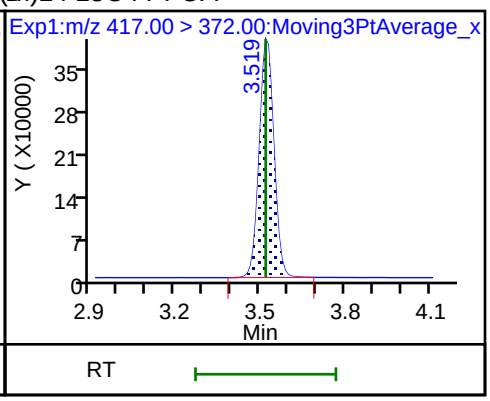
D 12 M2-6:2 FTS (M)



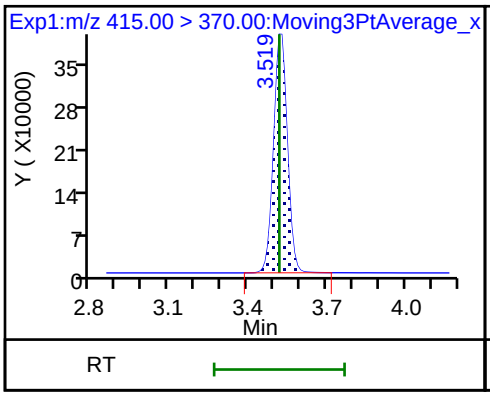
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



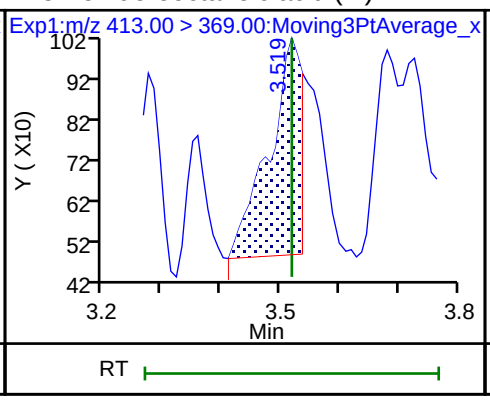
D 14 13C4 PFOA



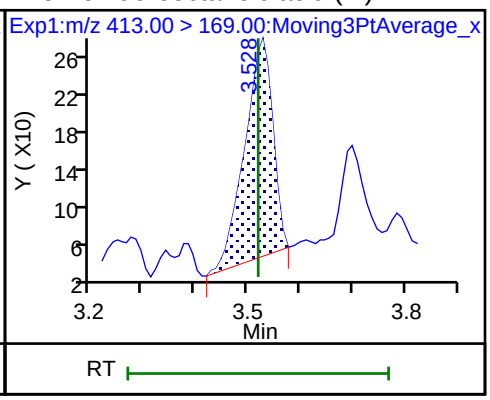
* 62 13C2 PFOA



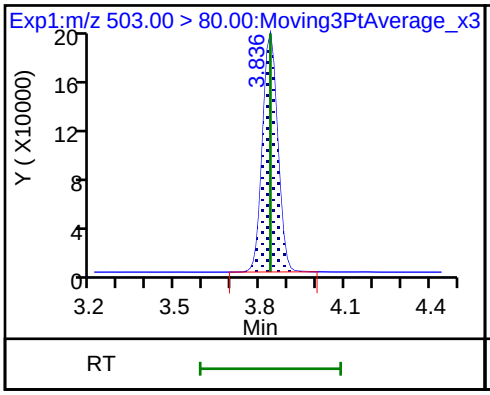
15 Perfluorooctanoic acid (M)



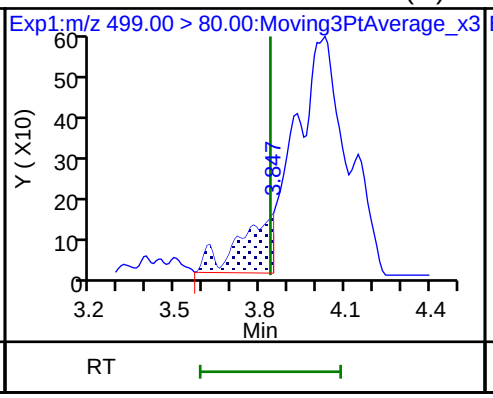
15 Perfluorooctanoic acid (M)



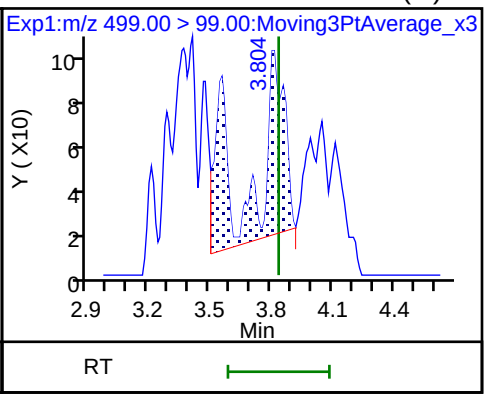
D 18 13C4 PFOS



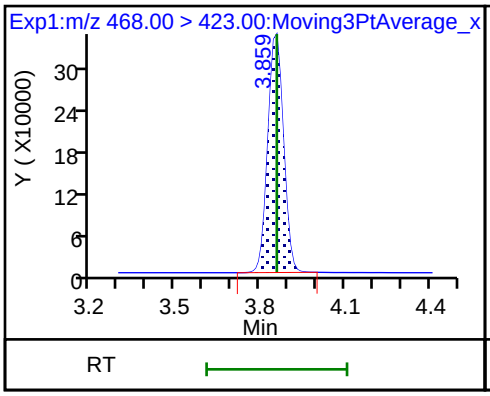
17 Perfluorooctanesulfonic acid (M)



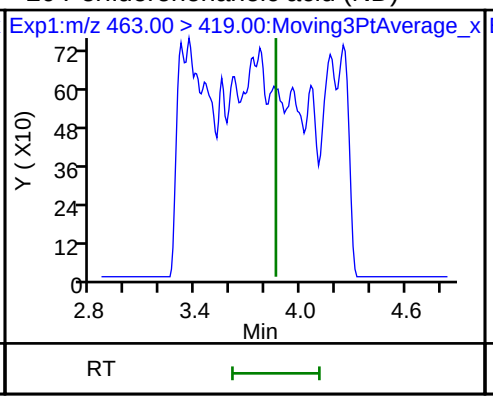
17 Perfluorooctanesulfonic acid (M)



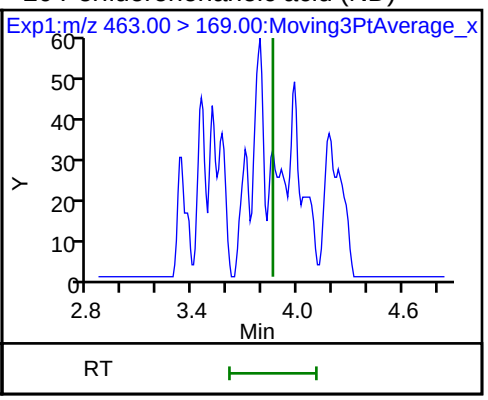
D 19 13C5 PFNA



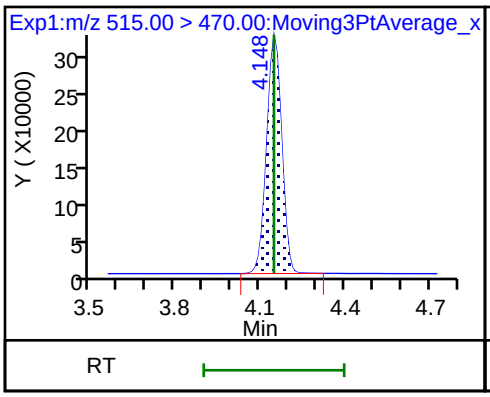
20 Perfluorononanoic acid (ND)



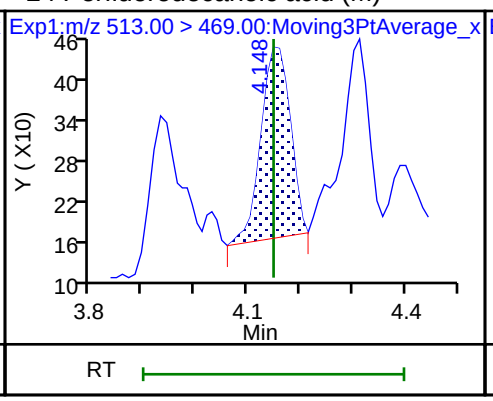
20 Perfluorononanoic acid (ND)



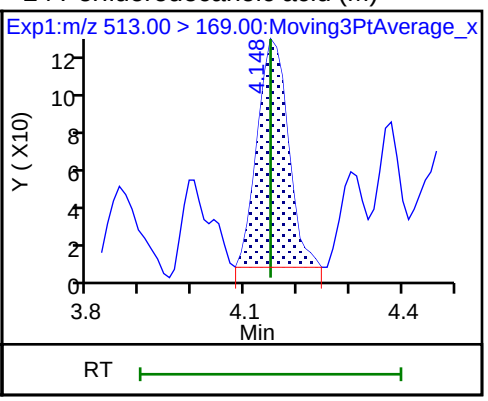
D 23 13C2 PFDA



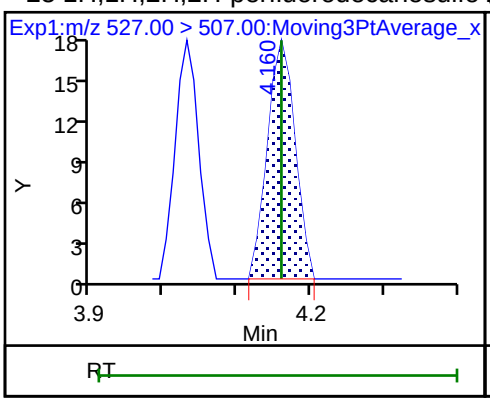
24 Perfluorodecanoic acid (M)



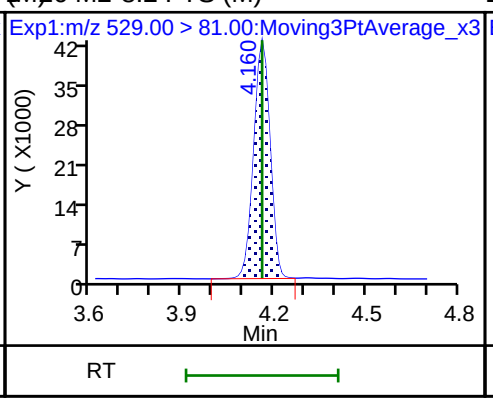
24 Perfluorodecanoic acid (M)



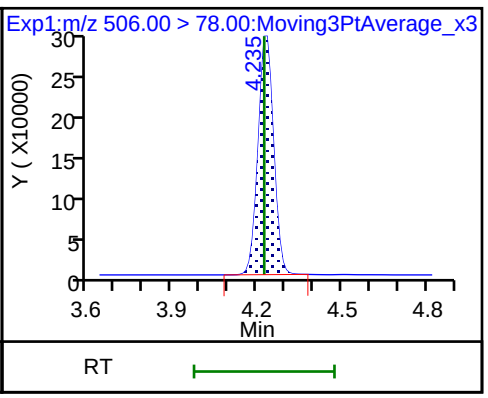
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



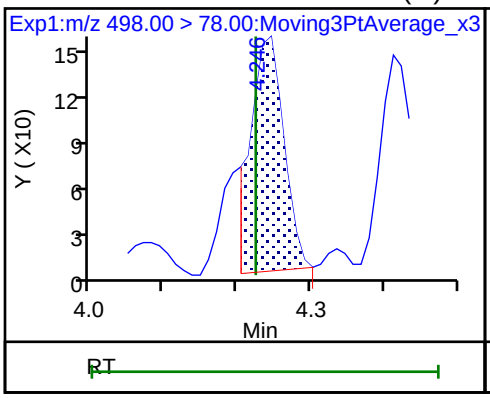
D 26 M2-8:2 FTS (M)



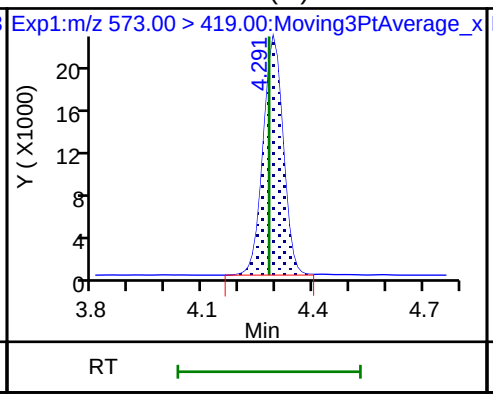
D 21 13C8 FOSA



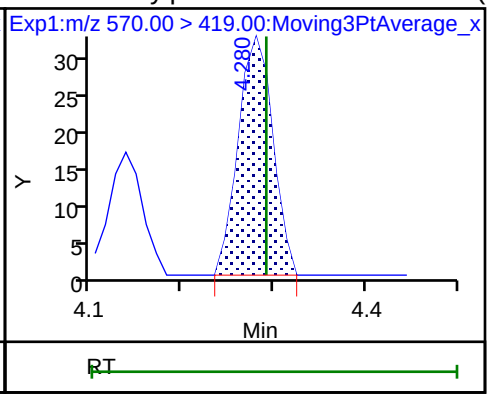
22 Perfluorooctanesulfonamide (M)



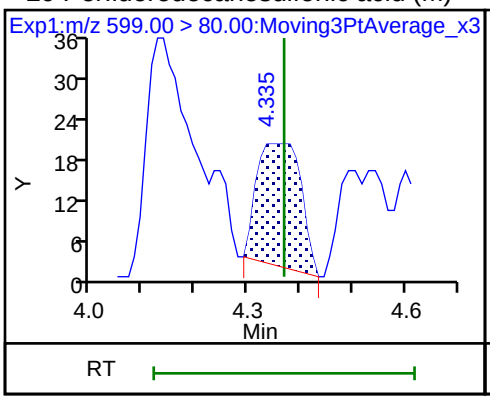
D 27 d3-NMeFOSAA (M)



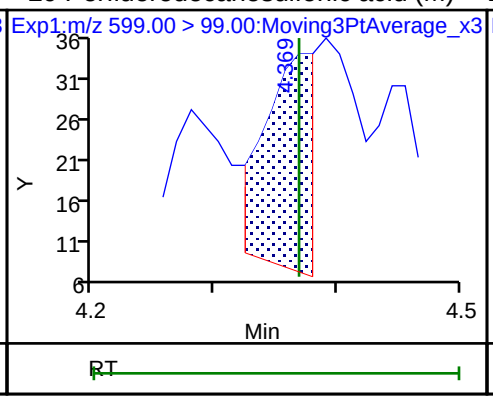
28 N-methylperfluorooctanesulfonami (M)



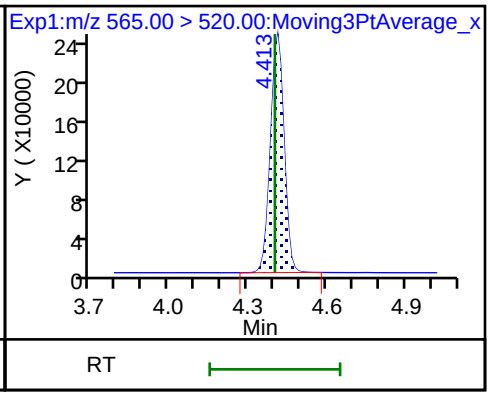
29 Perfluorodecanesulfonic acid (M)



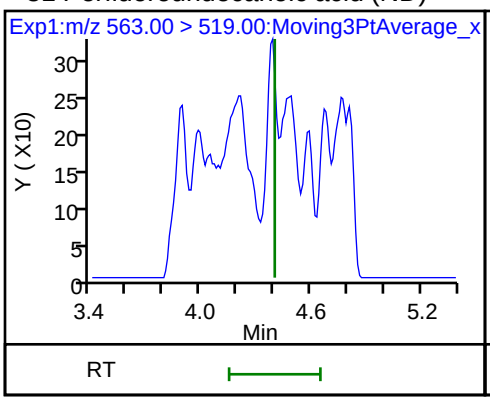
29 Perfluorodecanesulfonic acid (M)



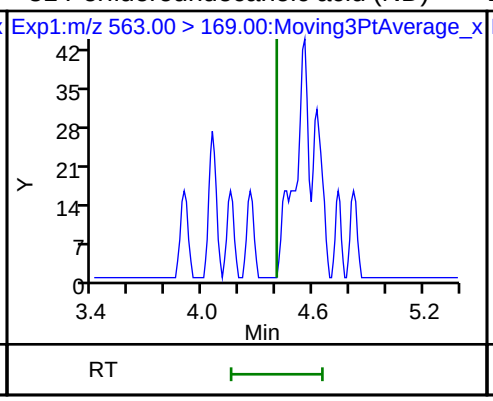
D 30 13C2 PFUnA



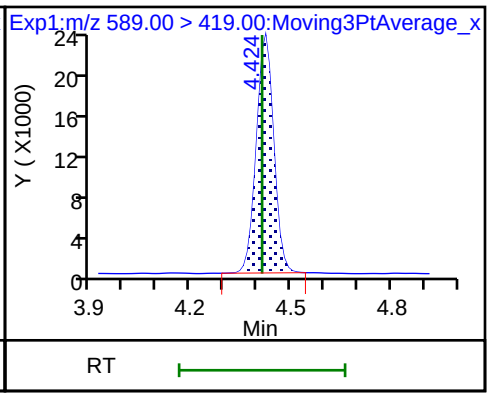
31 Perfluoroundecanoic acid (ND)



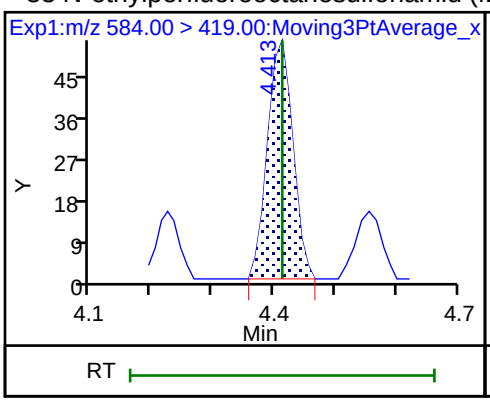
31 Perfluoroundecanoic acid (ND)



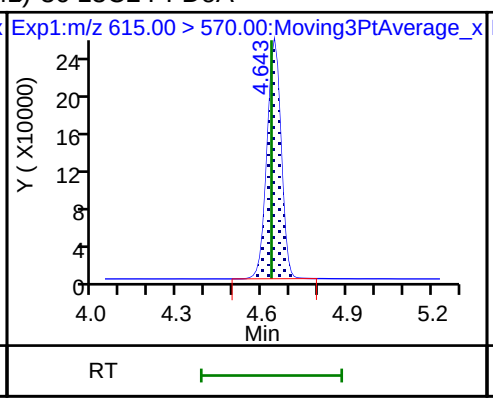
D 32 d5-NEtFOSAA



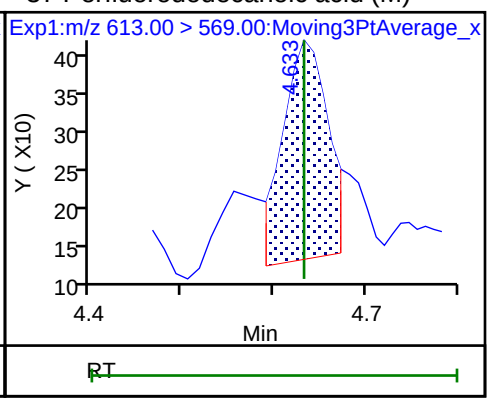
33 N-ethylperfluorooctanesulfonamid (ND)



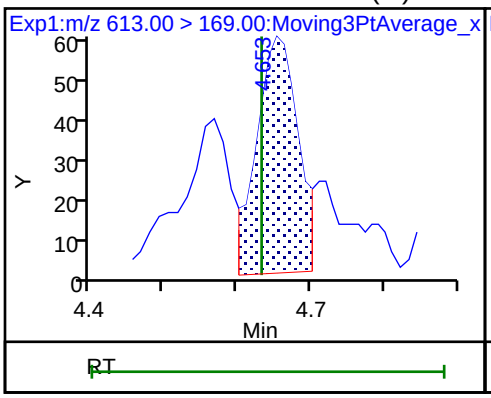
D 36 13C2 PFDoA



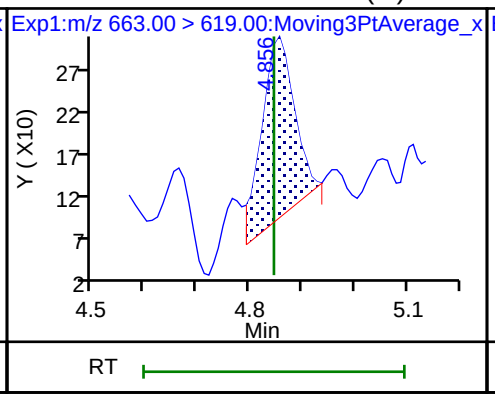
37 Perfluorododecanoic acid (M)



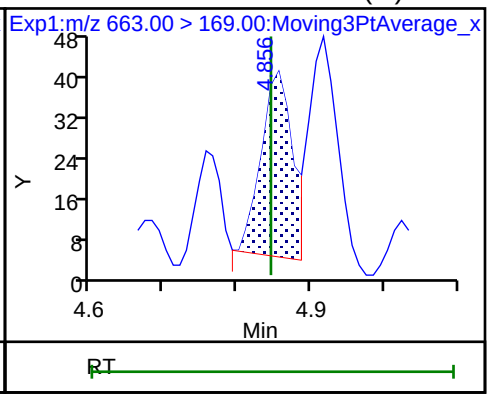
37 Perfluorododecanoic acid (M)



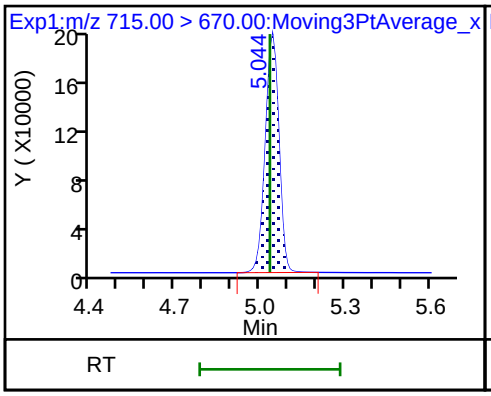
41 Perfluorotridecanoic acid (M)



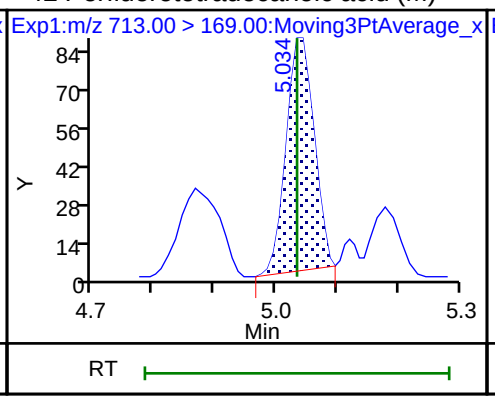
41 Perfluorotridecanoic acid (M)



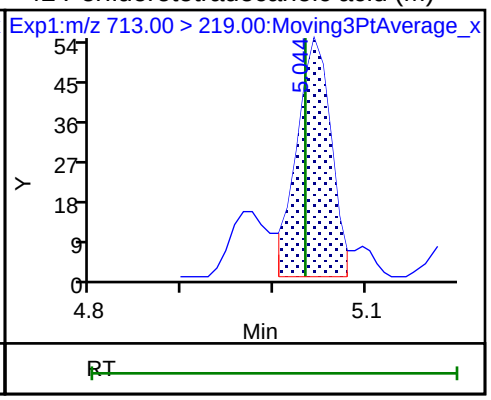
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

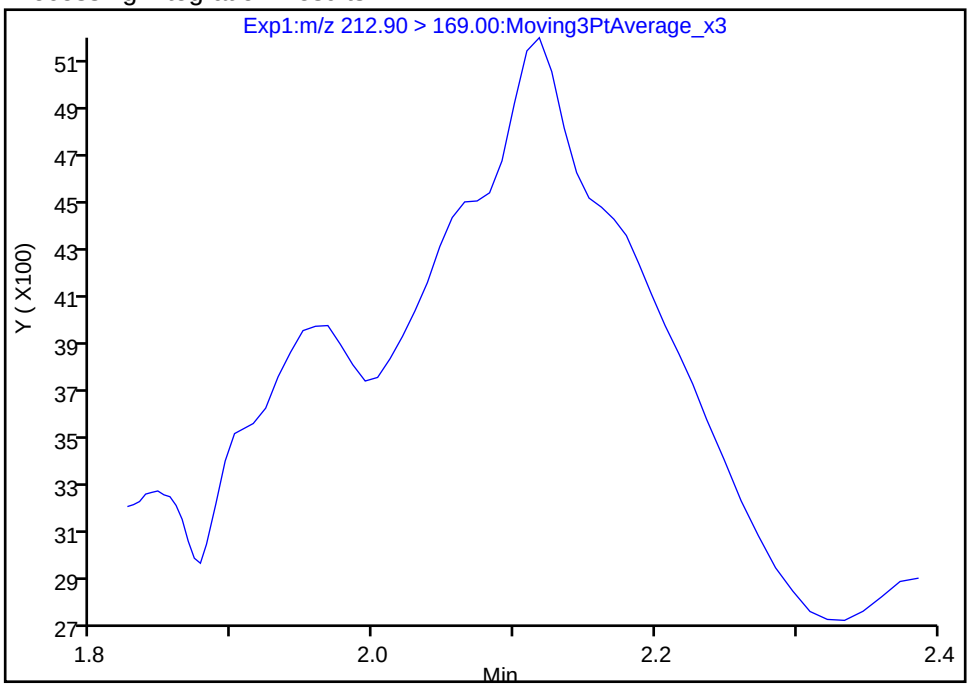
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d		
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14
Client ID:	EB-080321		
Operator ID:	lc812tech	ALS Bottle#:	17 Worklist Smp#: 20
Injection Vol:	20.0 ul	Dil. 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

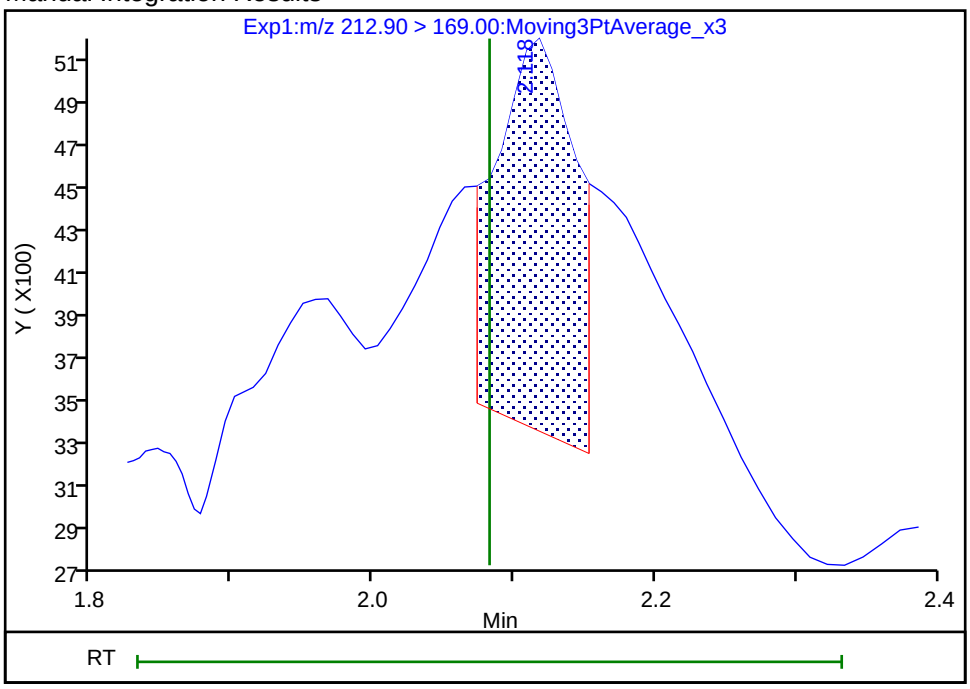
Not Detected
Expected RT: 2.08

Processing Integration Results



Manual Integration Results

RT: 2.12
Area: 6845
Amount: 0.007444
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:32:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

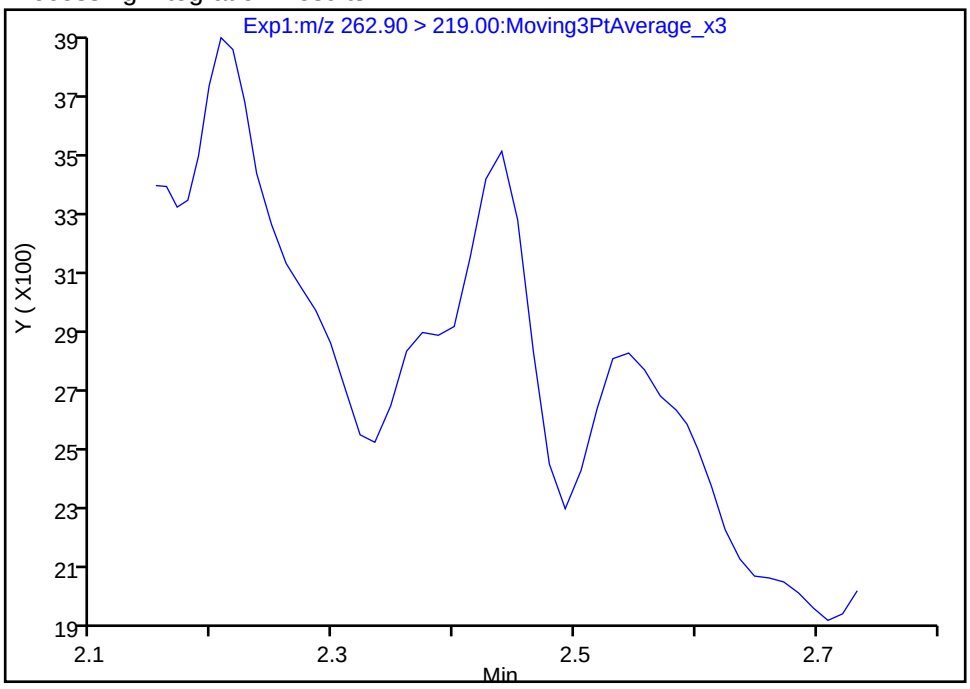
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Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

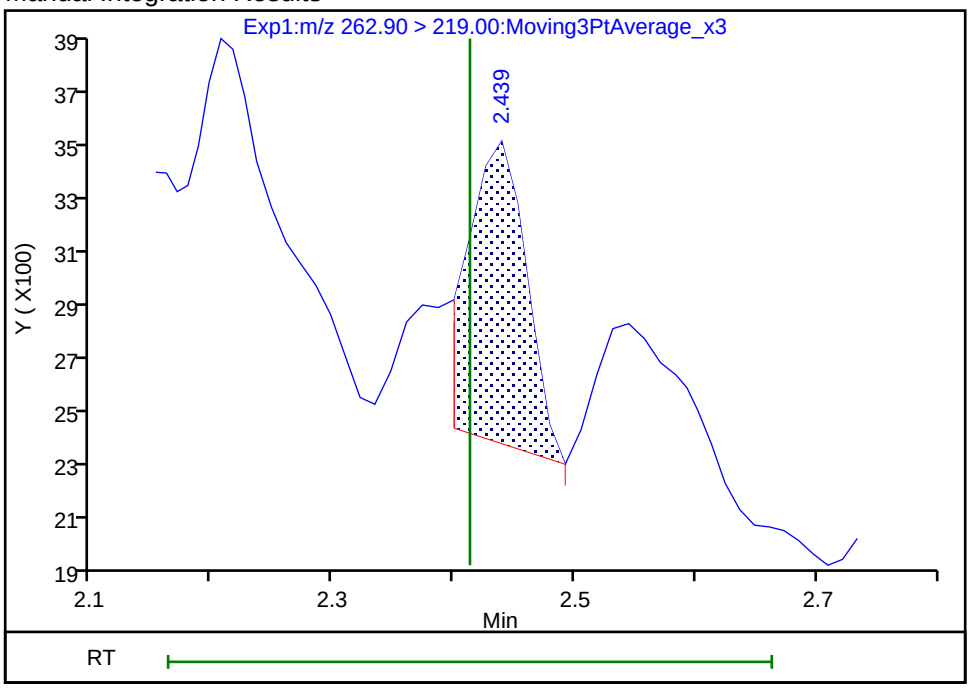
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.44
Area: 3485
Amount: 0.003441
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:32:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

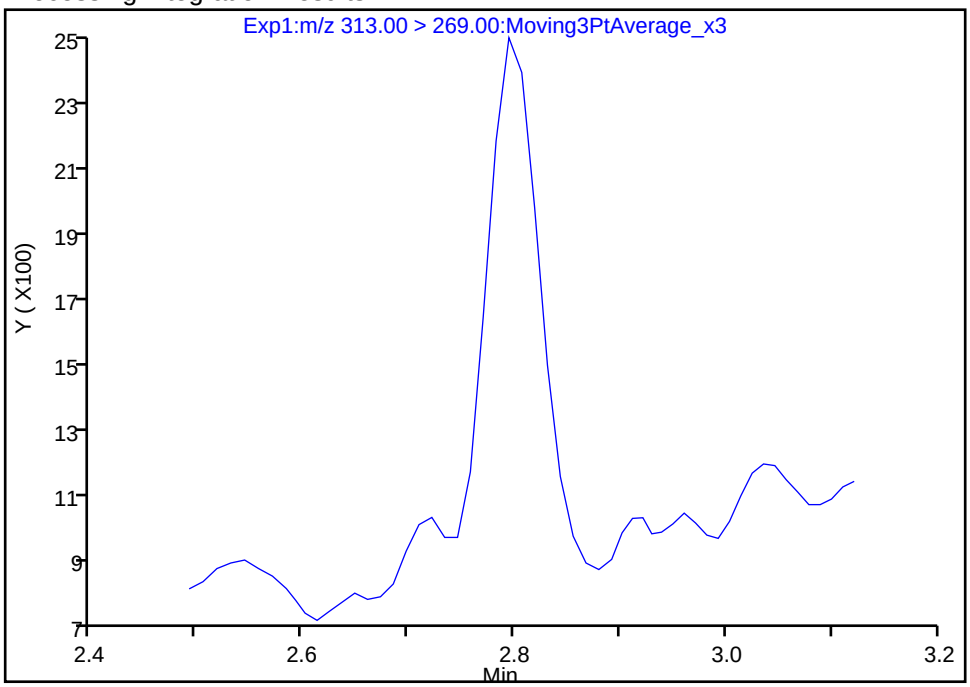
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Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

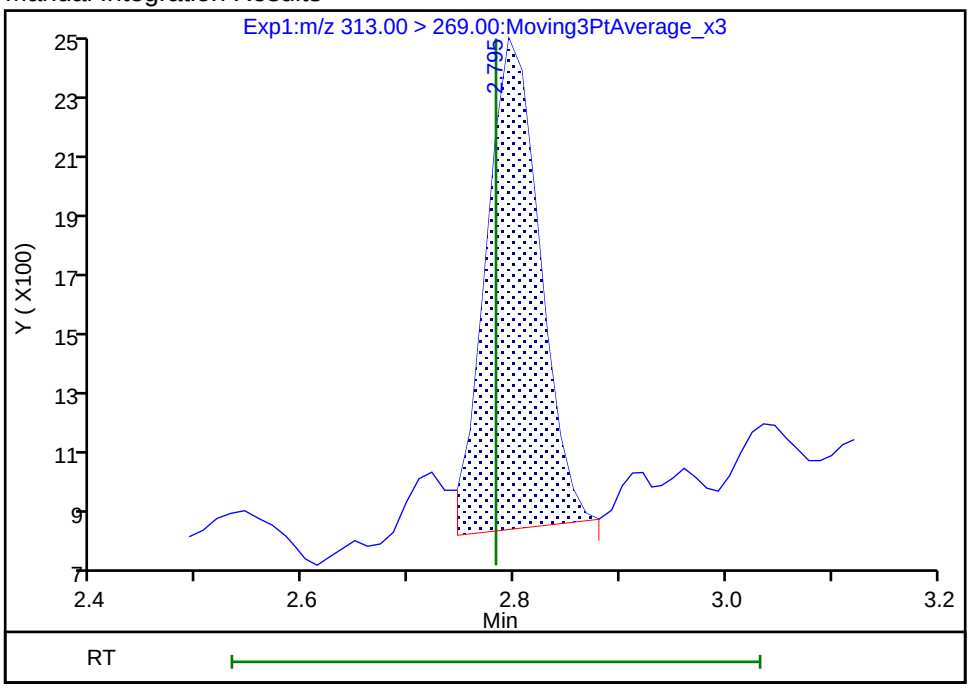
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.79
Area: 5832
Amount: 0.005279
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:33:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

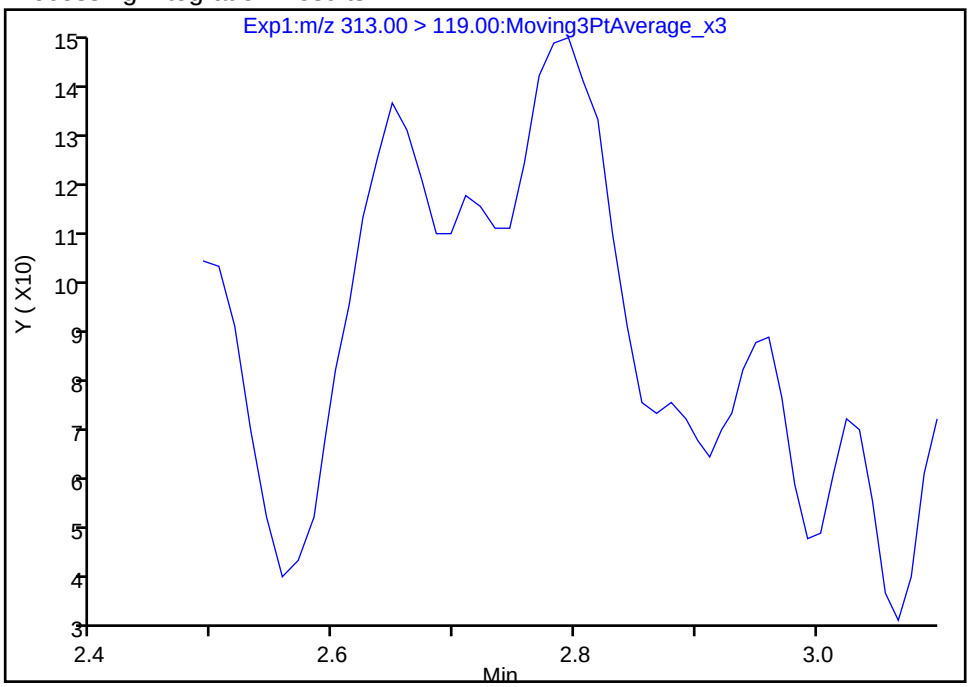
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

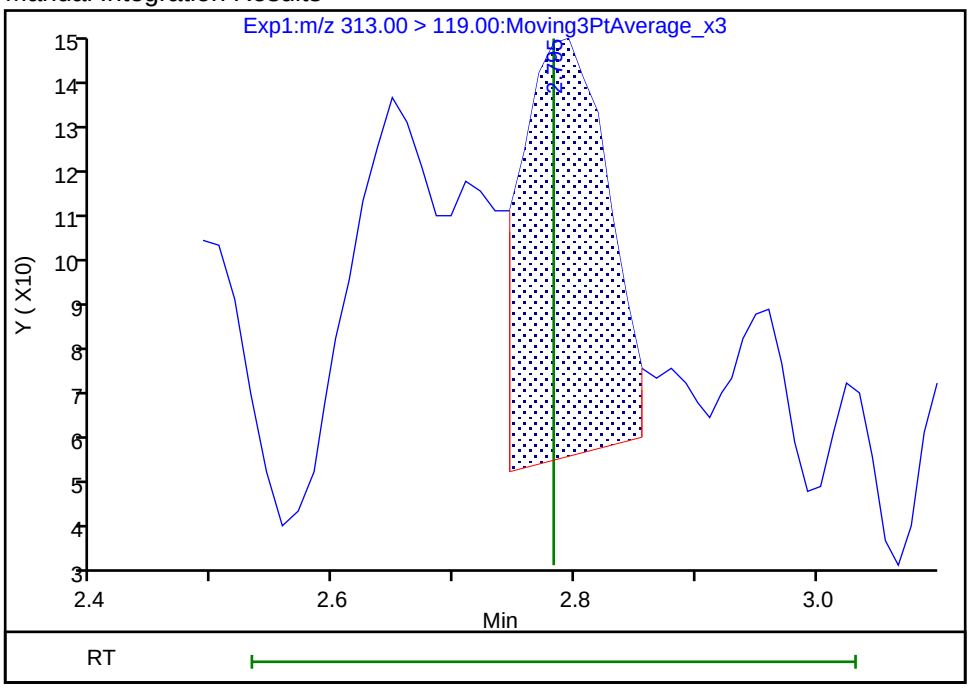
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.79
Area: 413
Amount: 0.005279
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:33:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

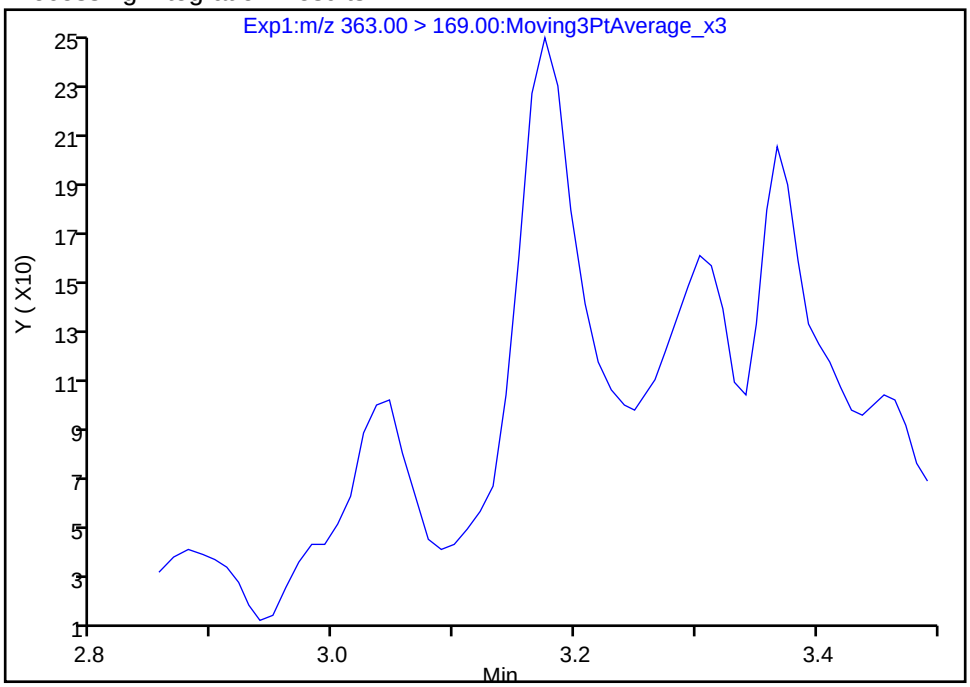
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

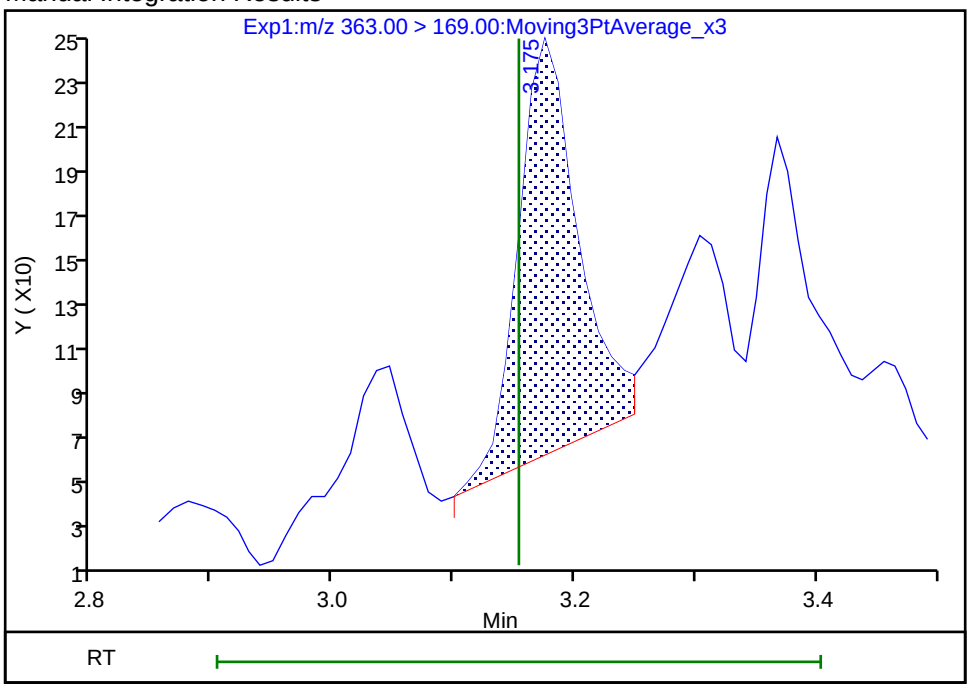
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.18
Area: 622
Amount: 0.002321
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:34:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

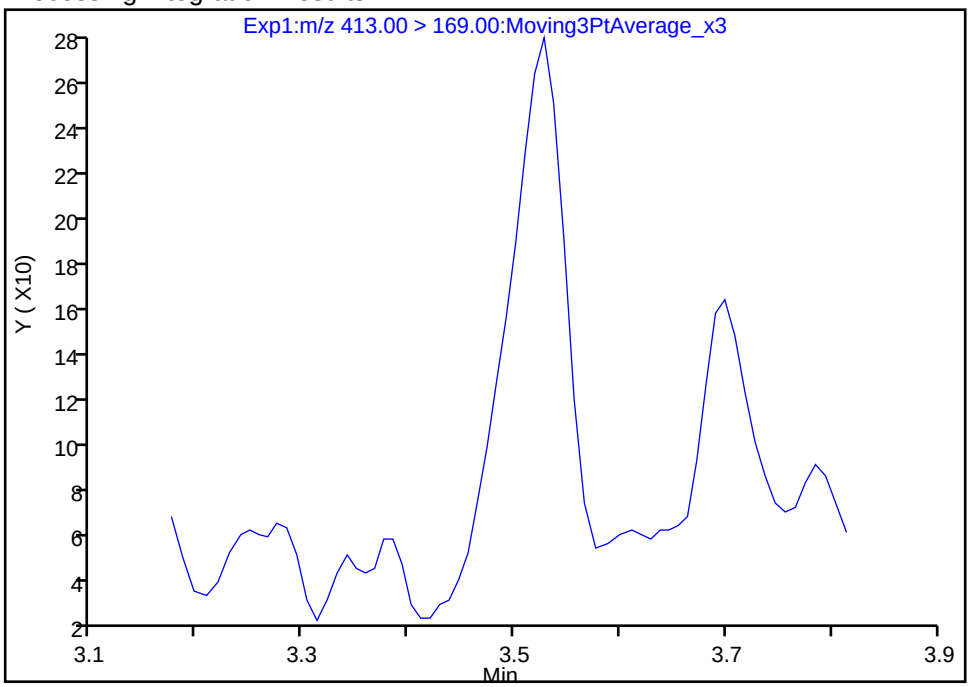
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

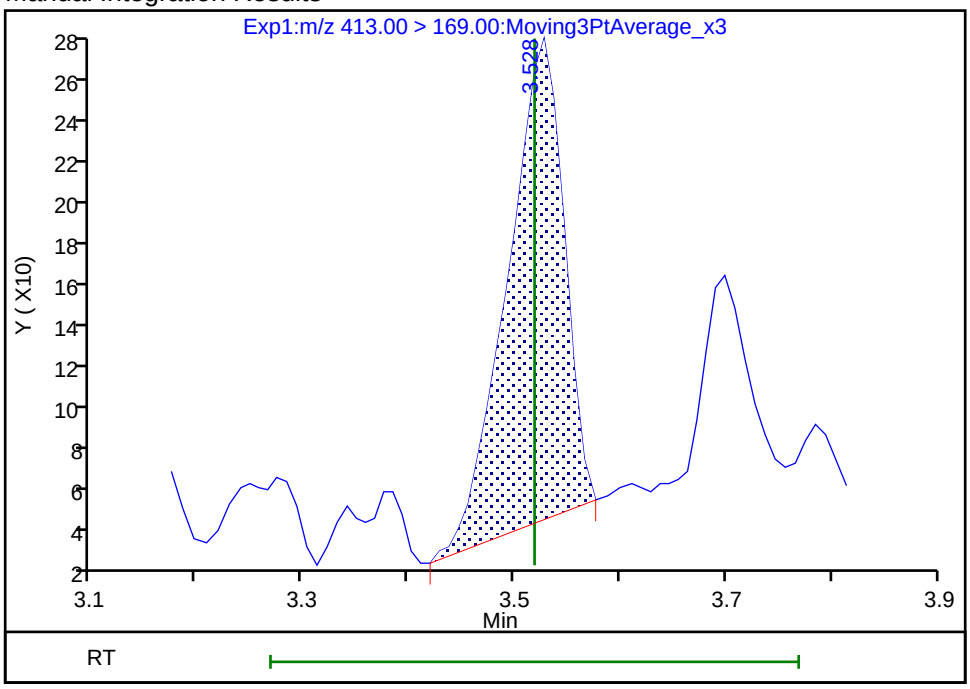
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 876
Amount: 0.001658
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:35:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

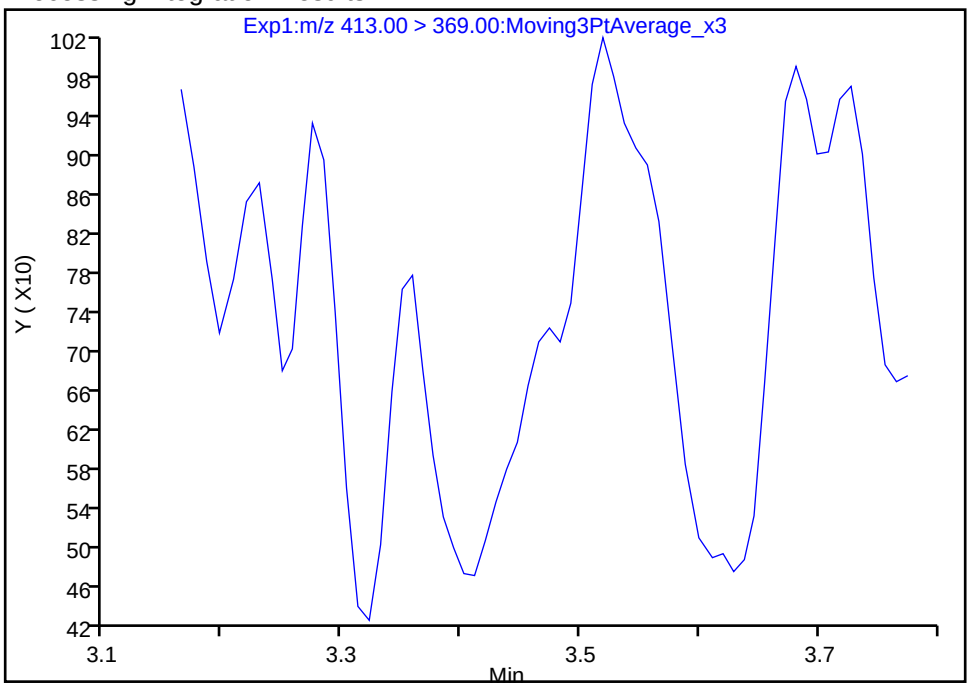
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

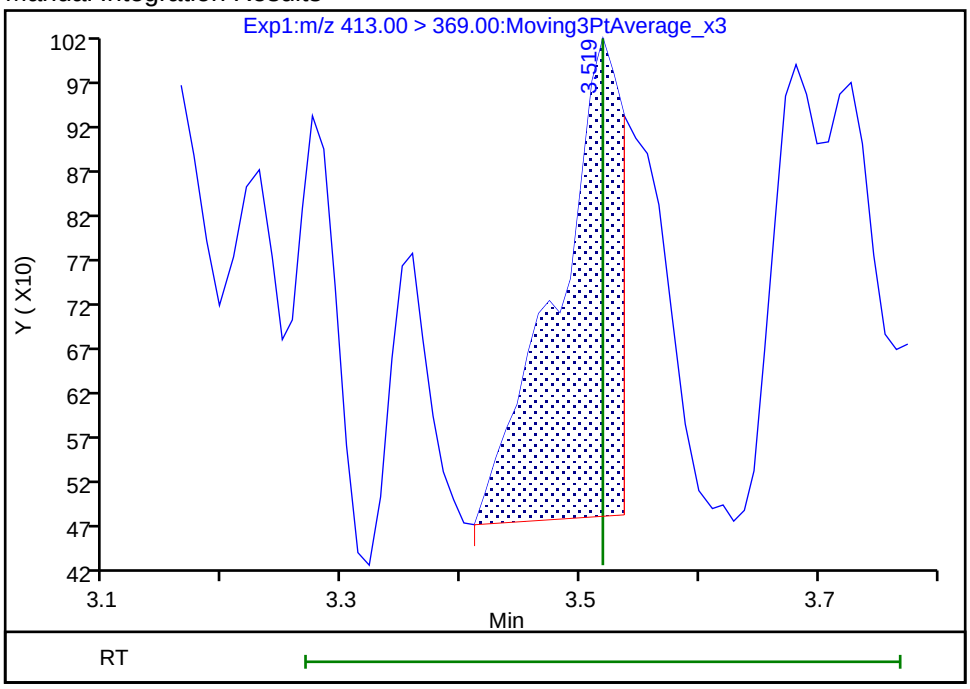
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 1949
Amount: 0.001658
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:35:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

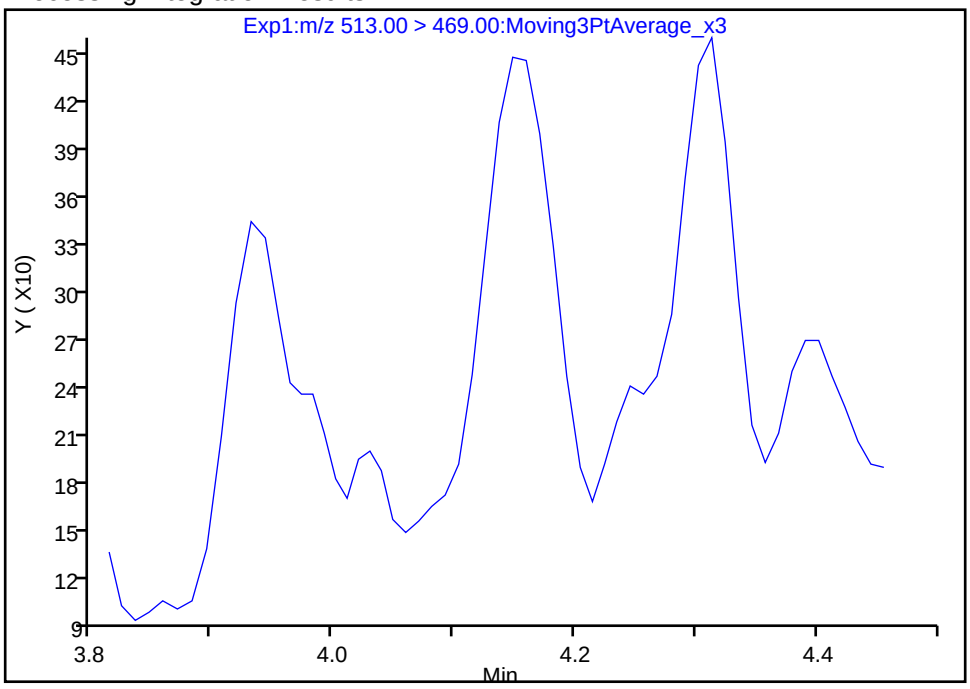
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

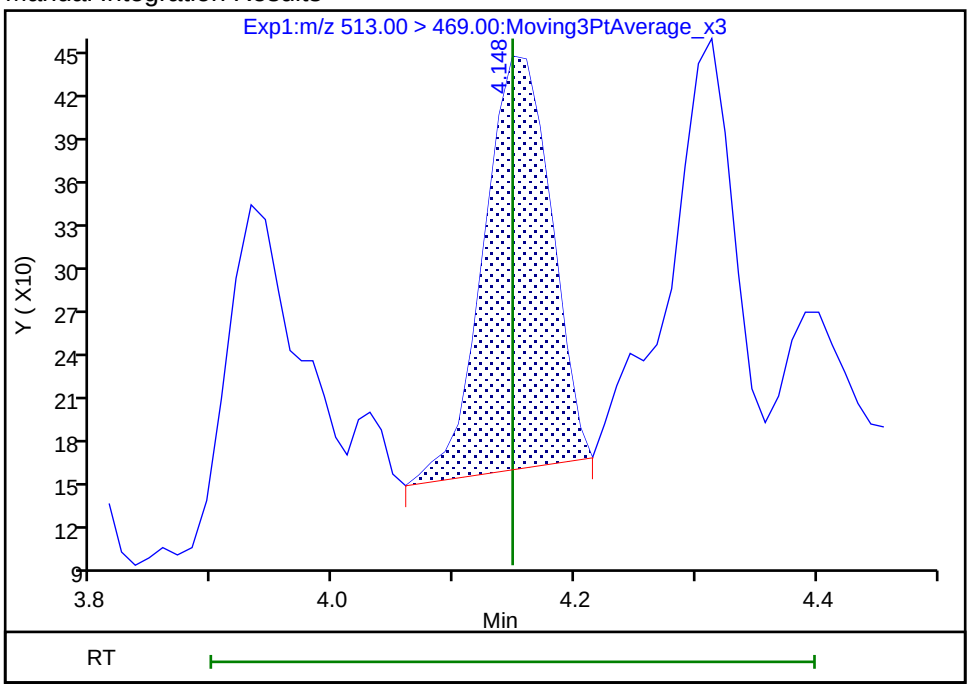
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 1091
Amount: 0.001068
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:36:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

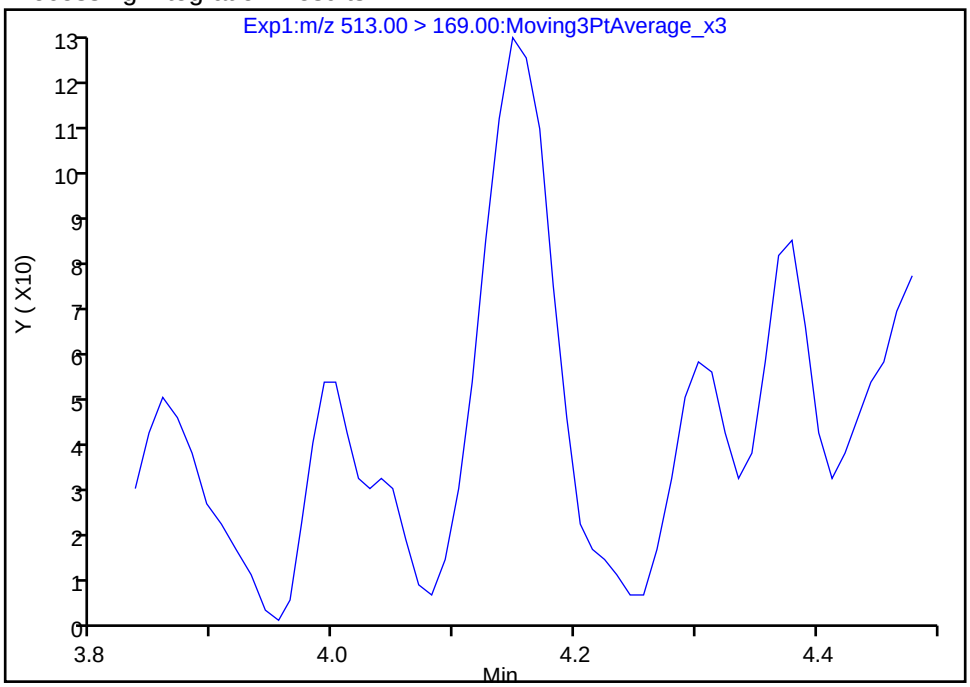
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

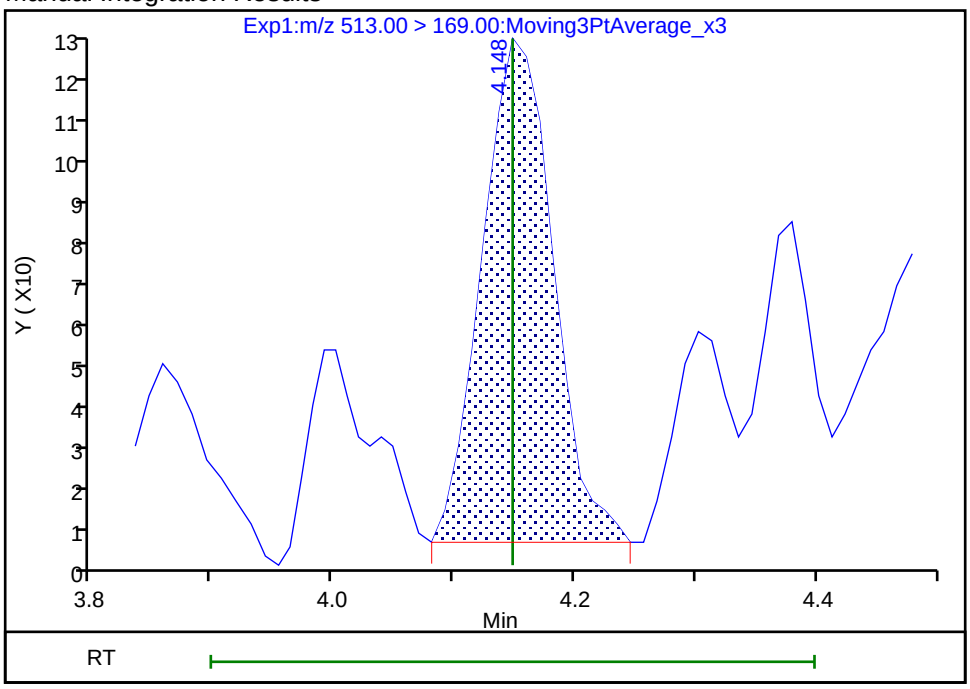
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 449
Amount: 0.001068
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:36:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

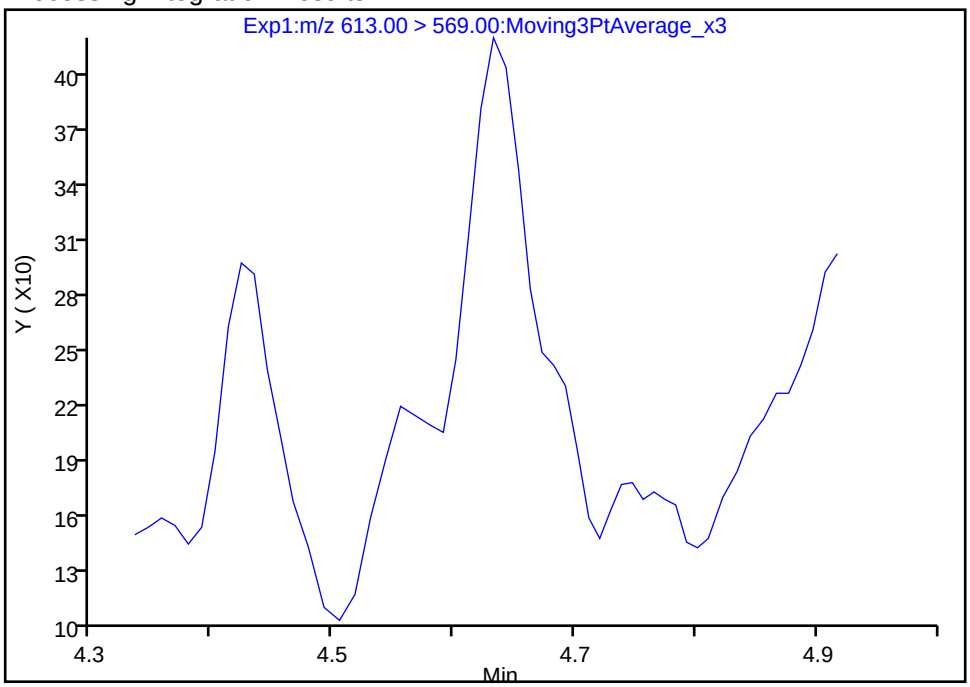
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Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

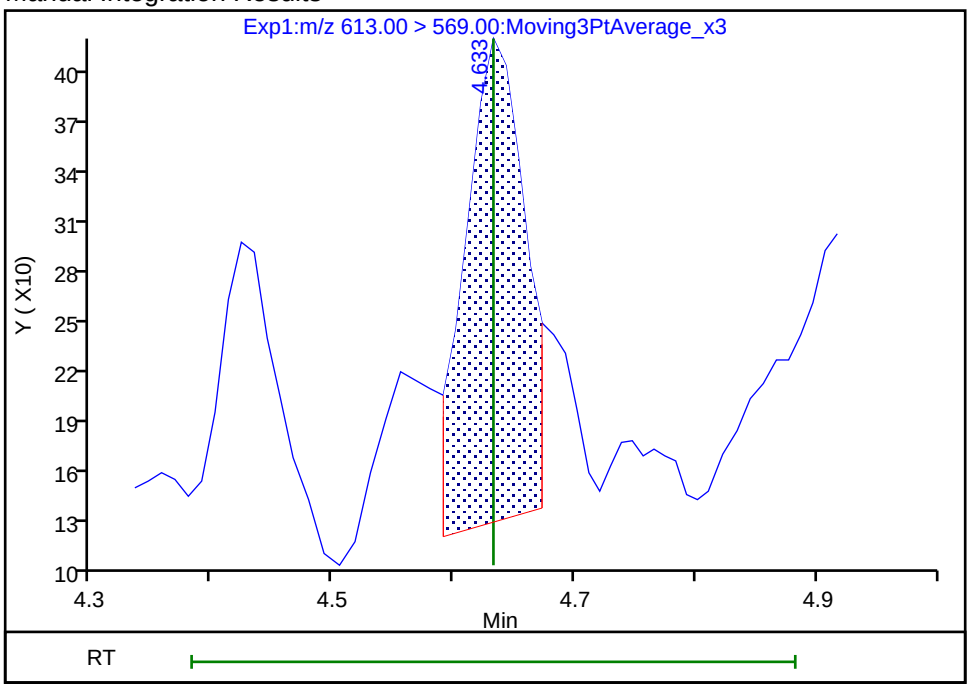
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.63
Area: 966
Amount: 0.001362
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:38:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

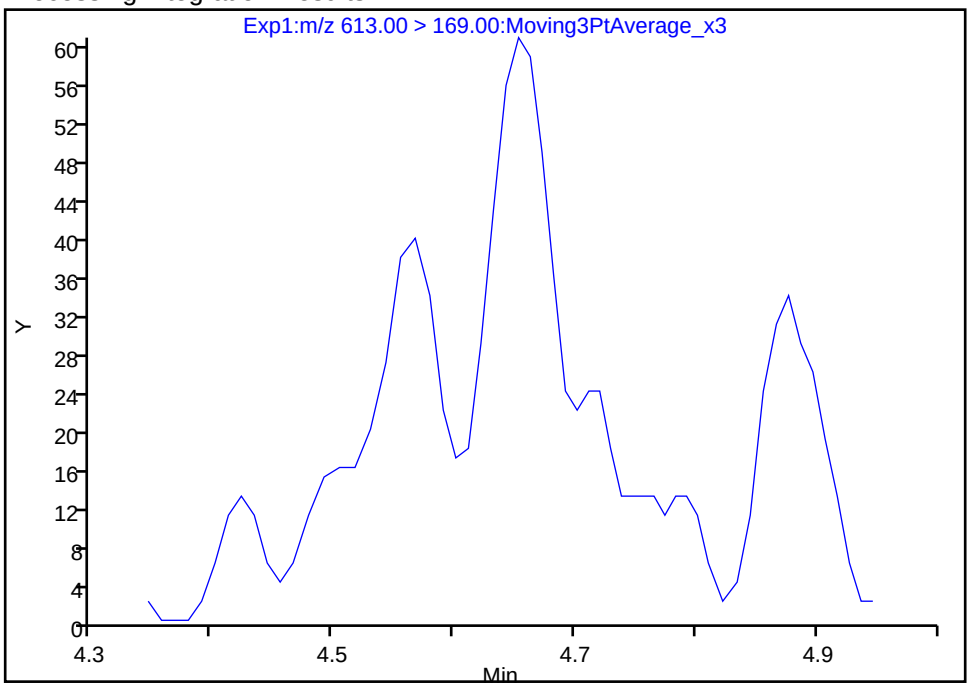
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

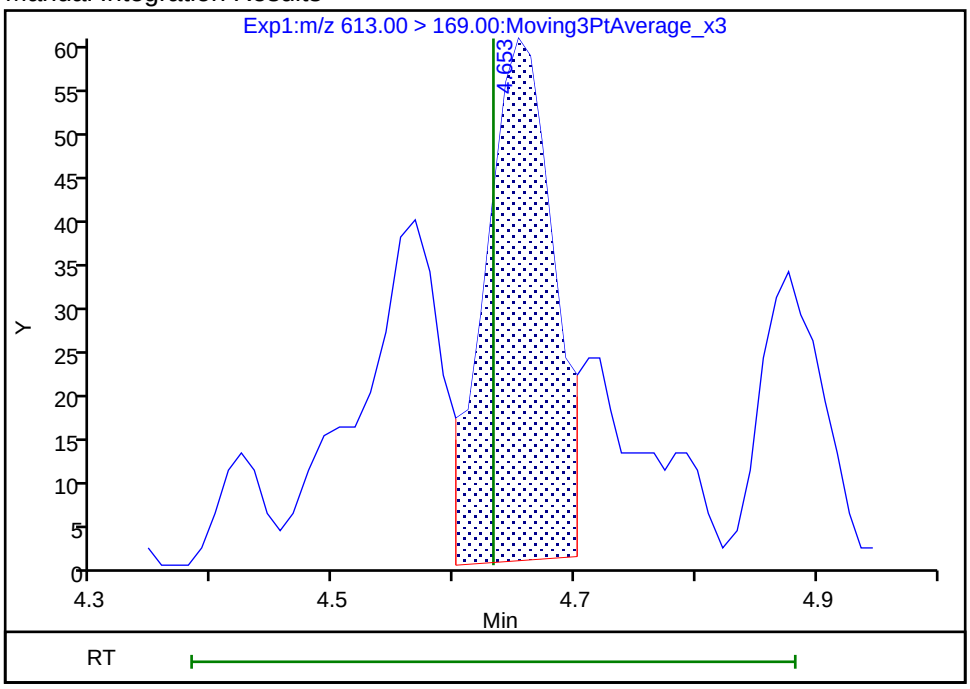
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.65
Area: 234
Amount: 0.001362
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:37:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

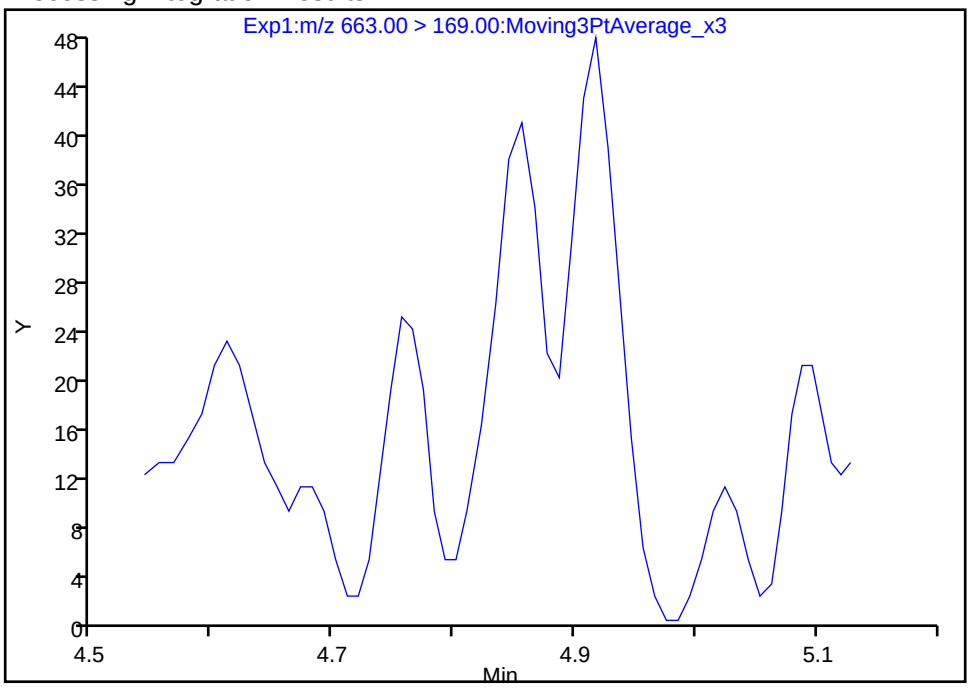
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

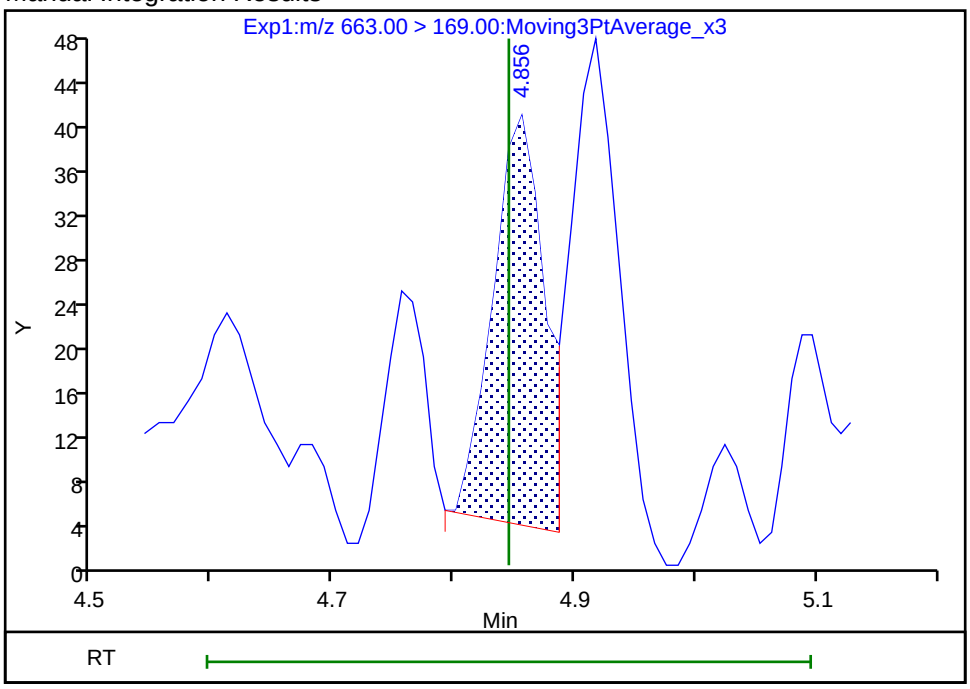
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 108
Amount: 0.001513
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:38:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

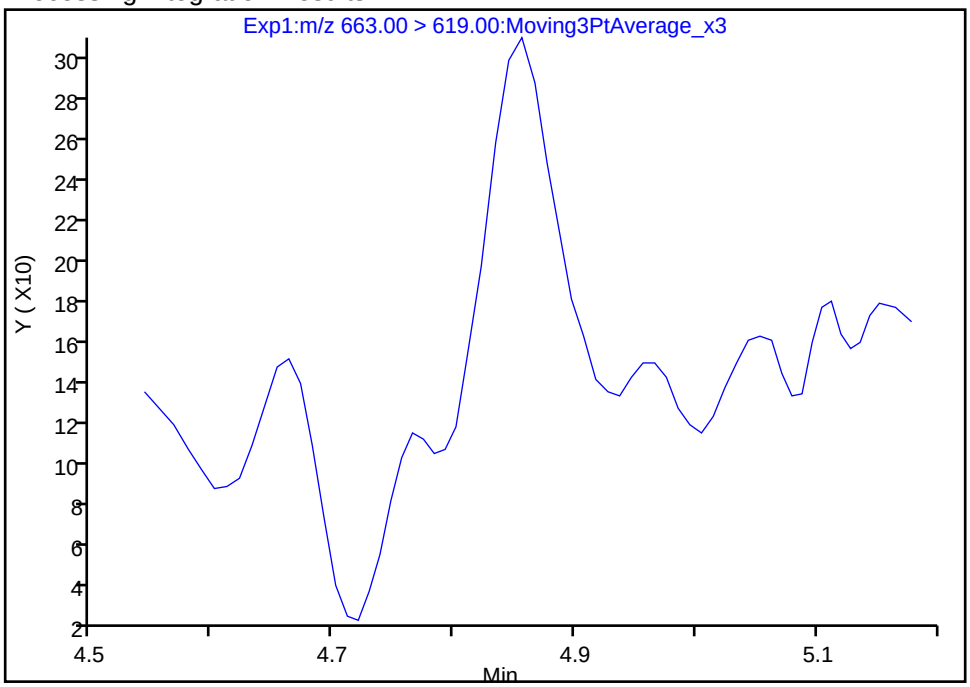
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

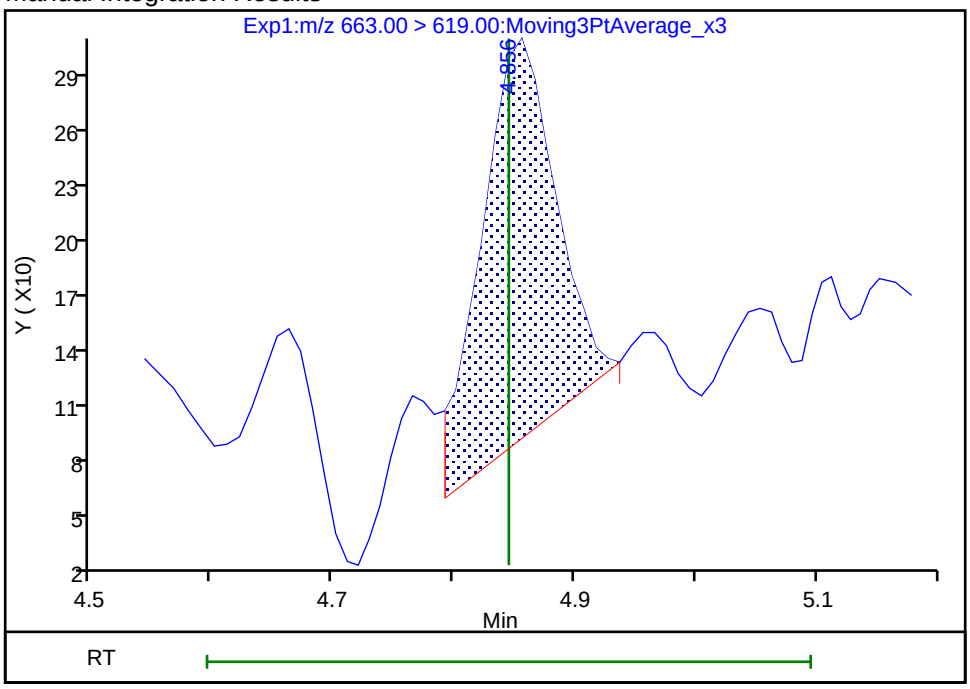
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 925
Amount: 0.001513
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:38:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

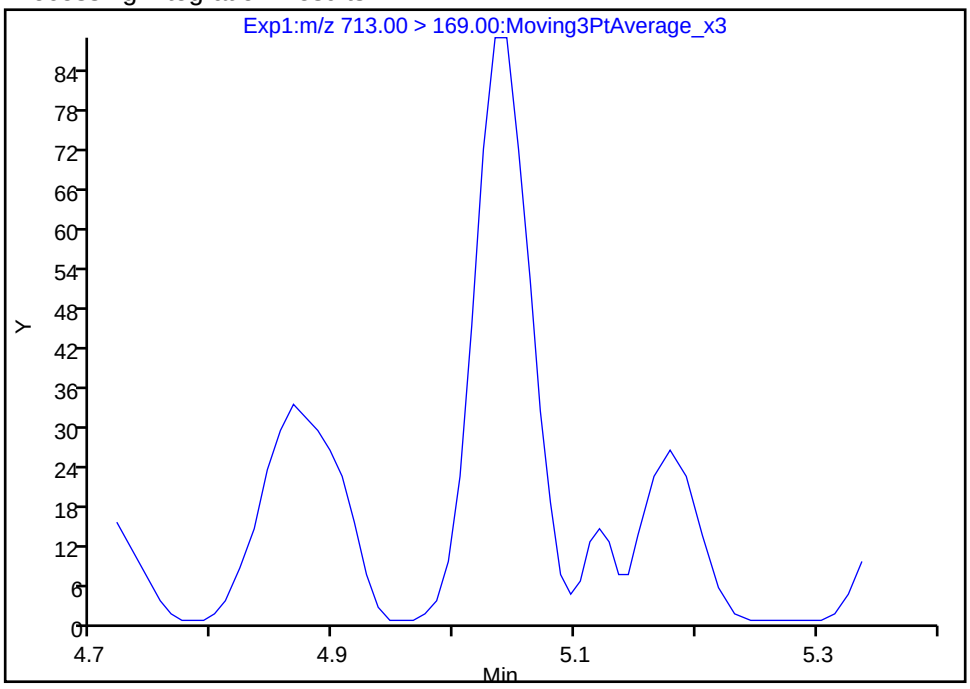
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

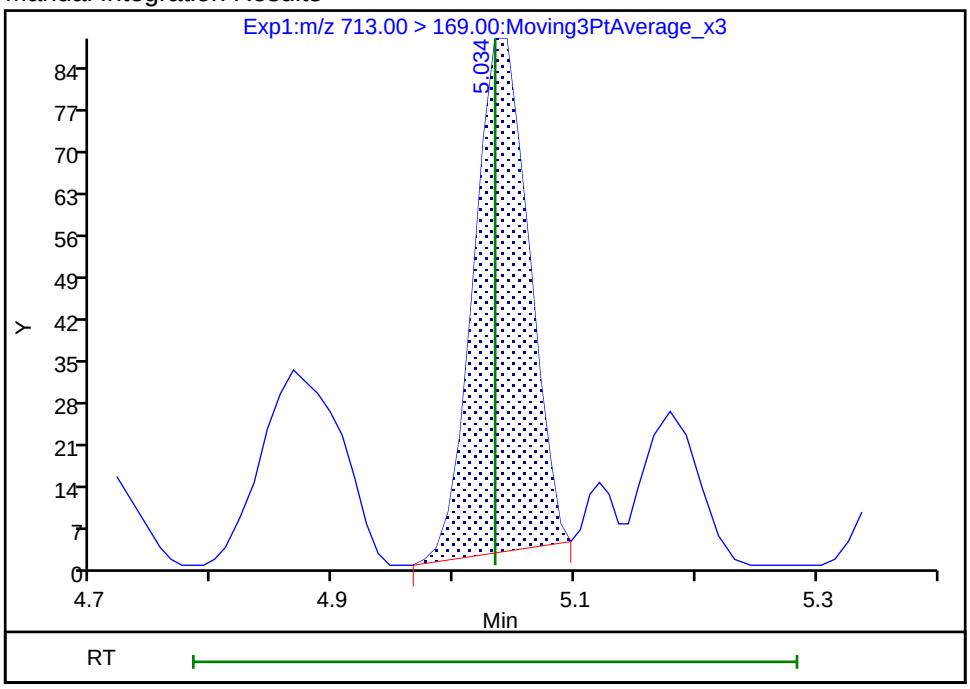
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 275
Amount: 0.003119
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:39:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

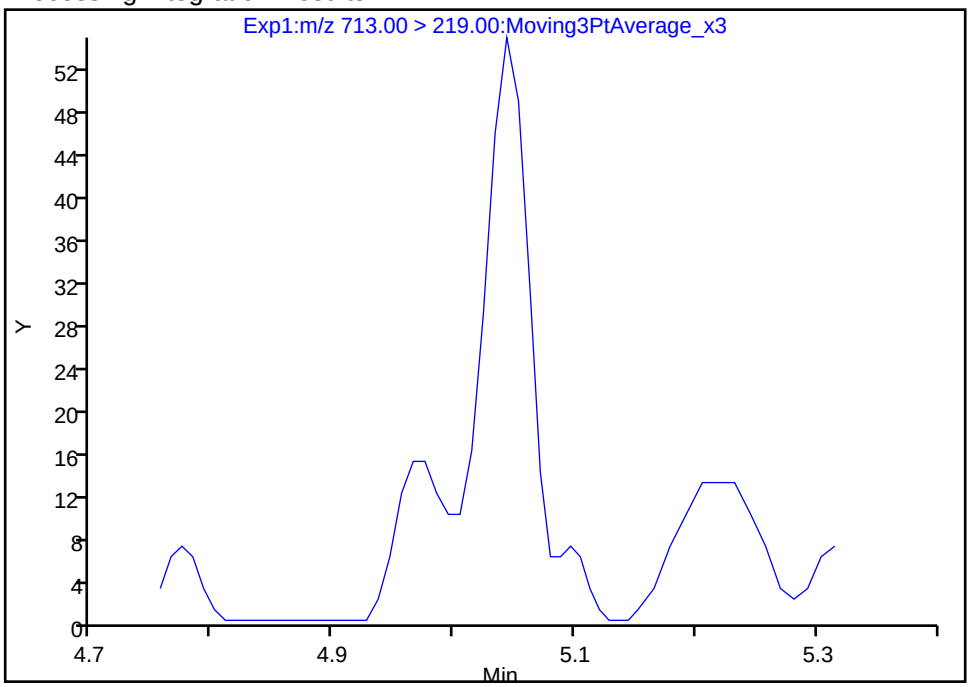
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

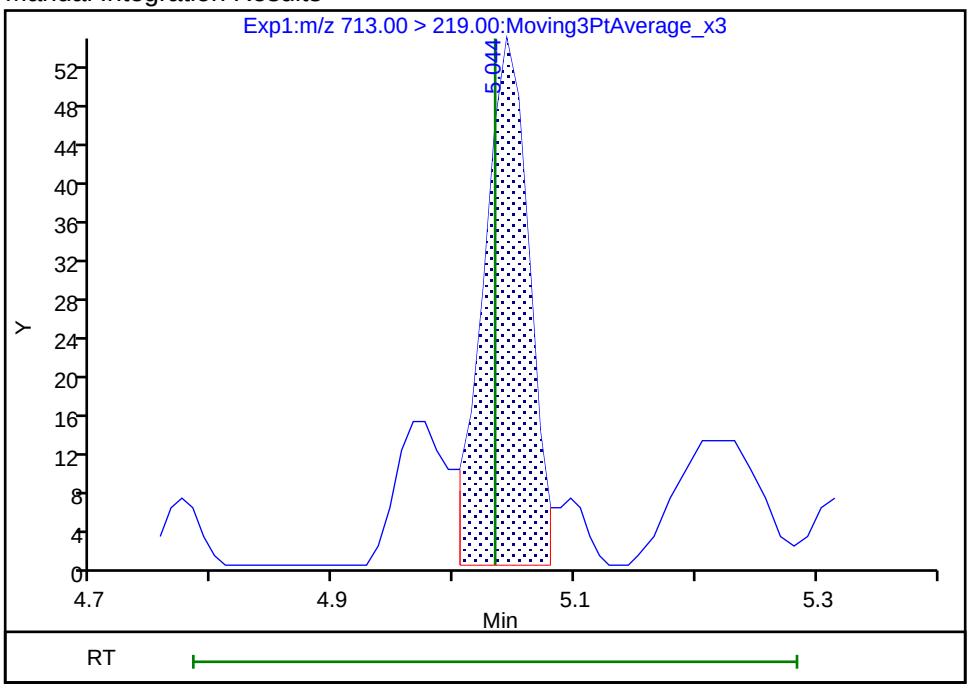
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 141
Amount: 0.003119
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:39:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

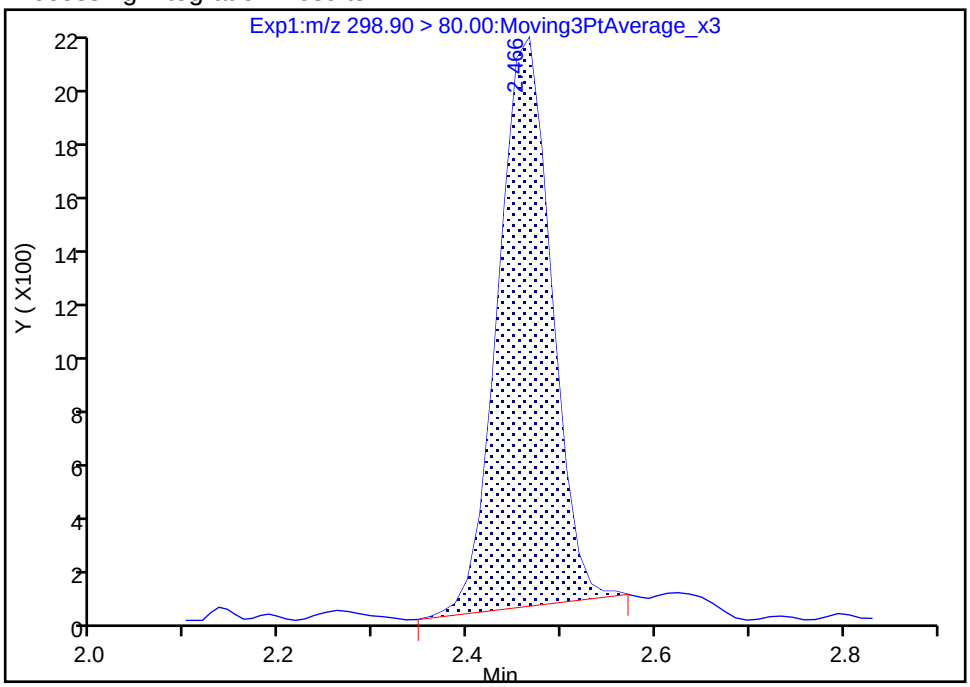
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

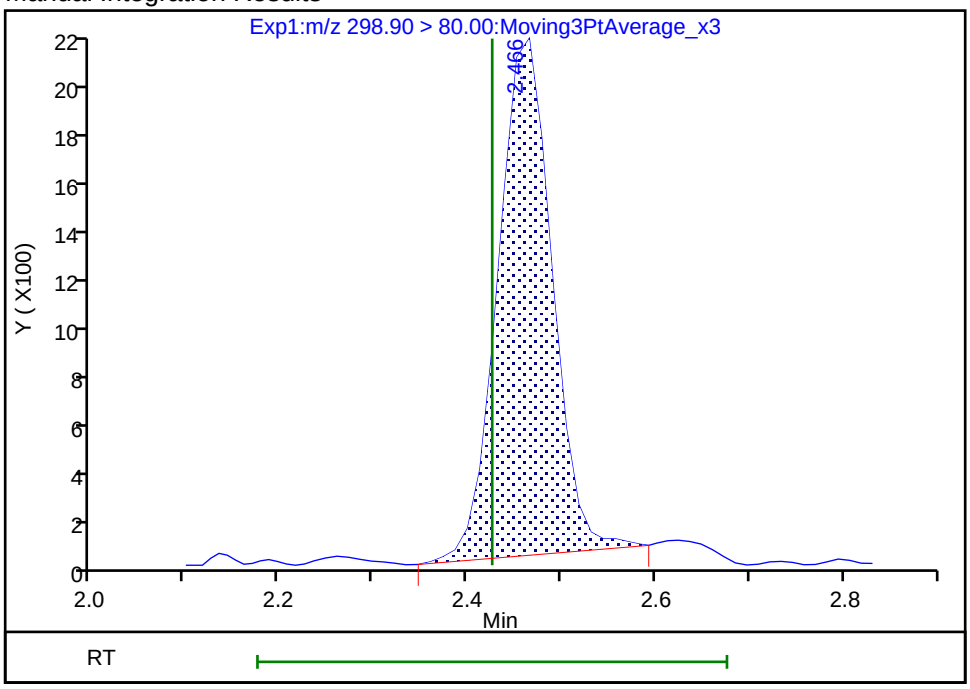
Processing Integration Results

RT: 2.47
Area: 7873
Amount: 0.006596
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 8024
Amount: 0.006723
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:33:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

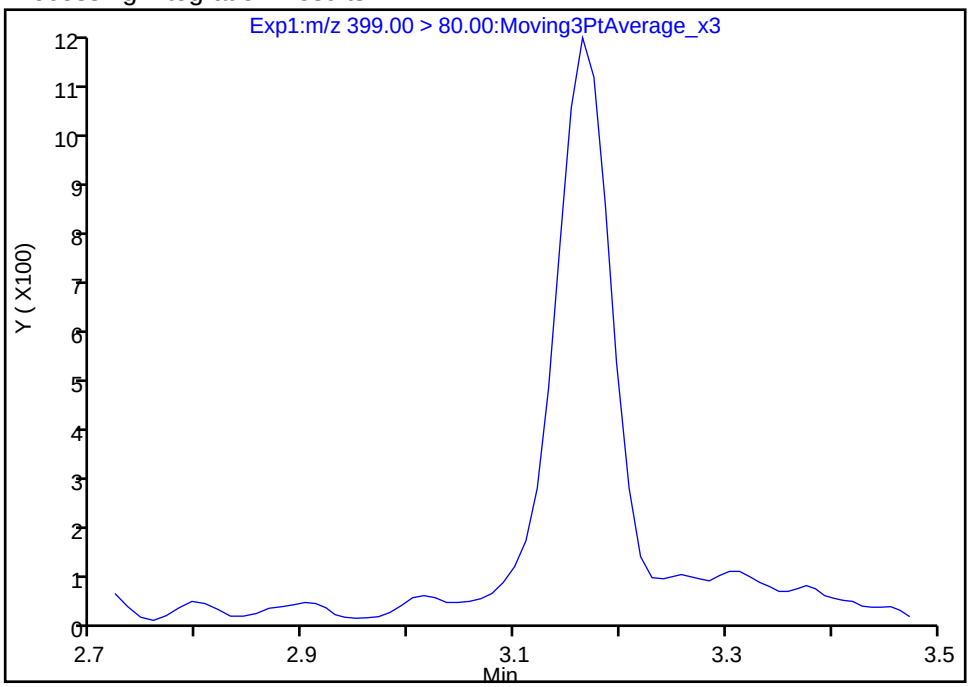
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

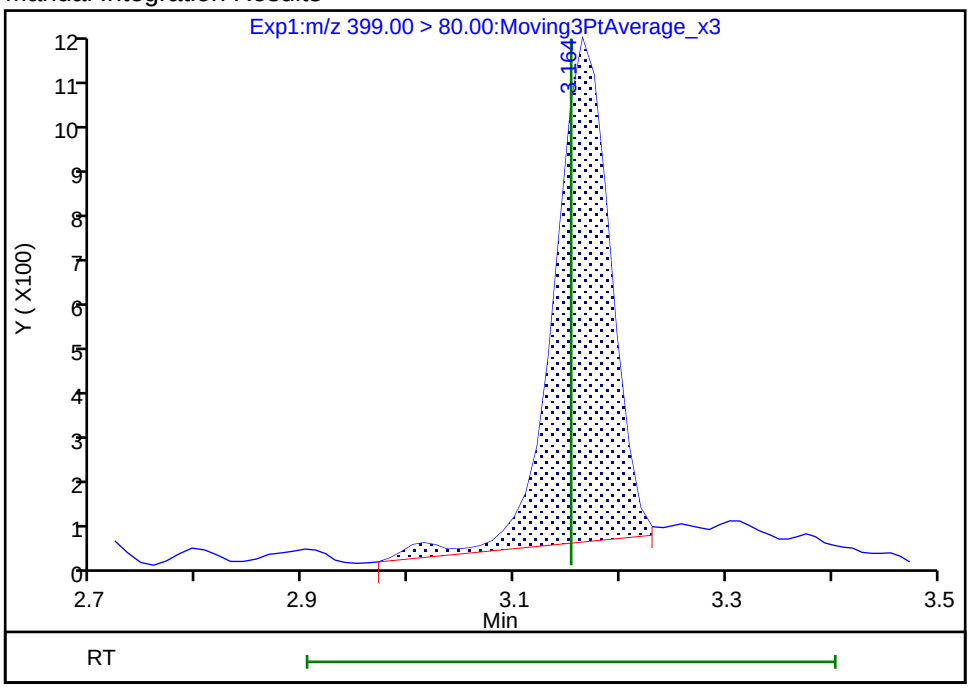
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 3929
Amount: 0.003966
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:34:16
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

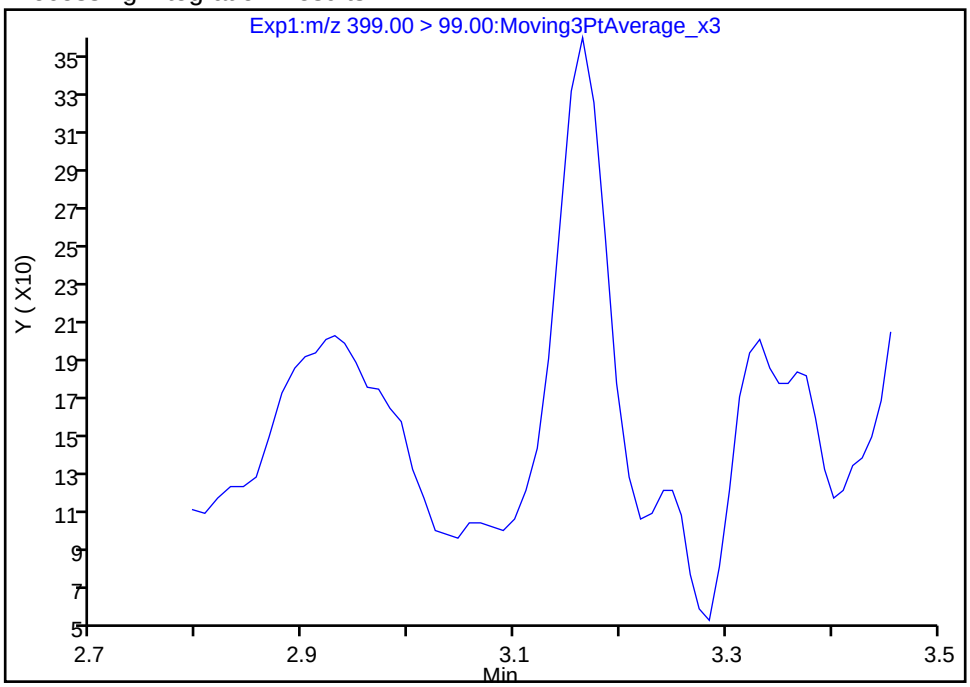
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

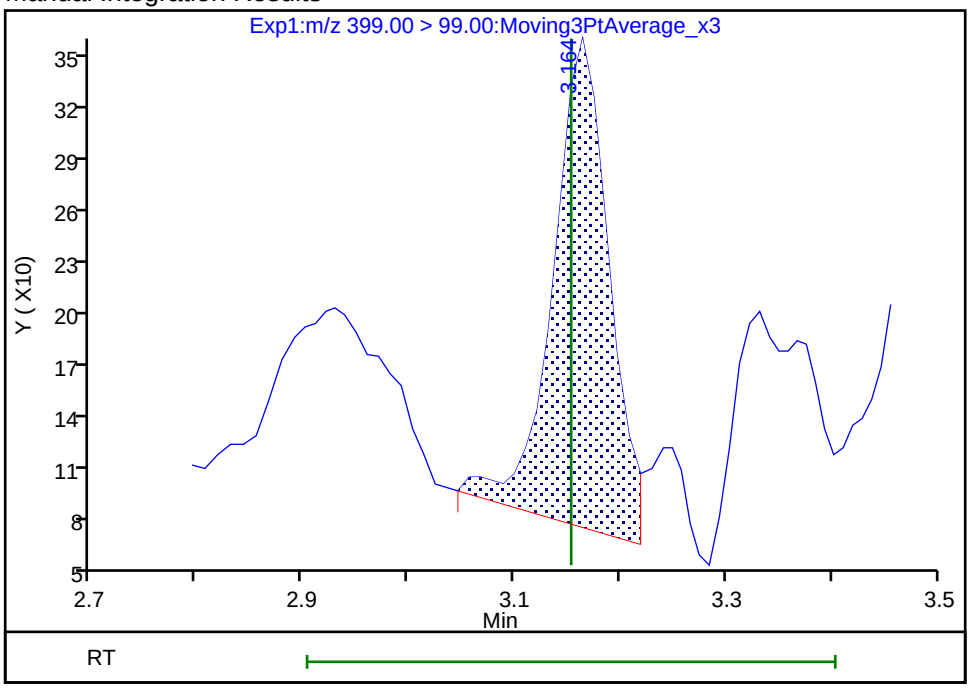
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 1043
Amount: 0.003966
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:34:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

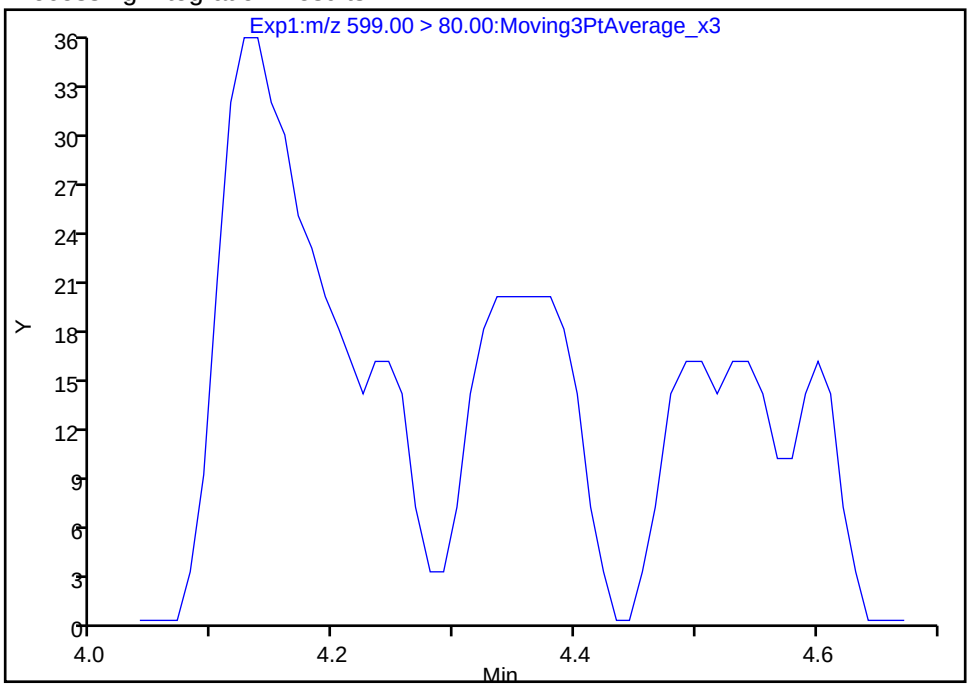
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

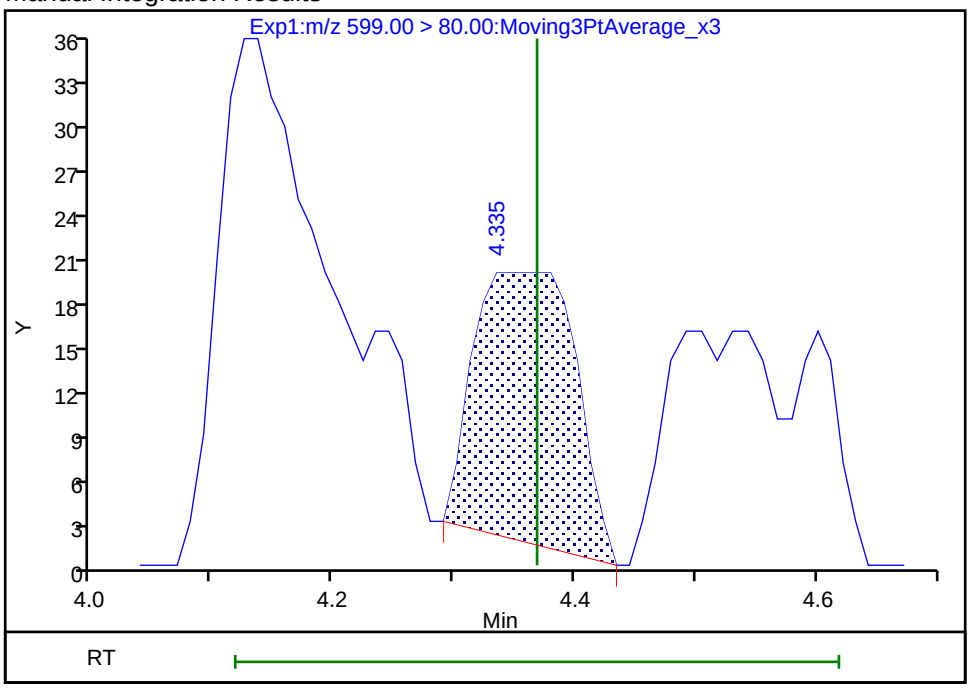
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 108
Amount: 0.000285
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:37:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

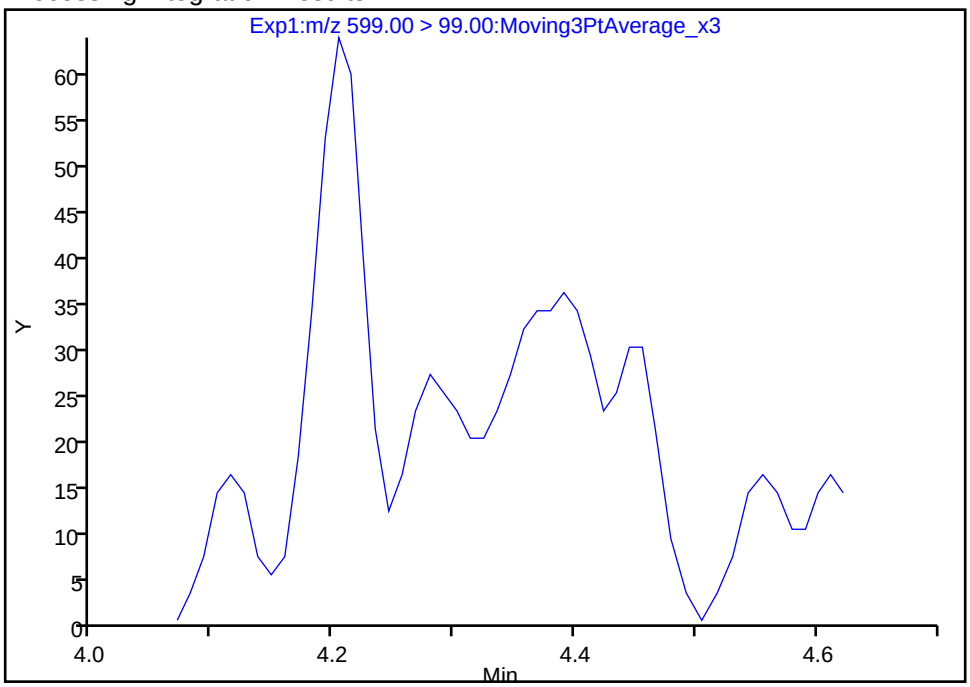
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

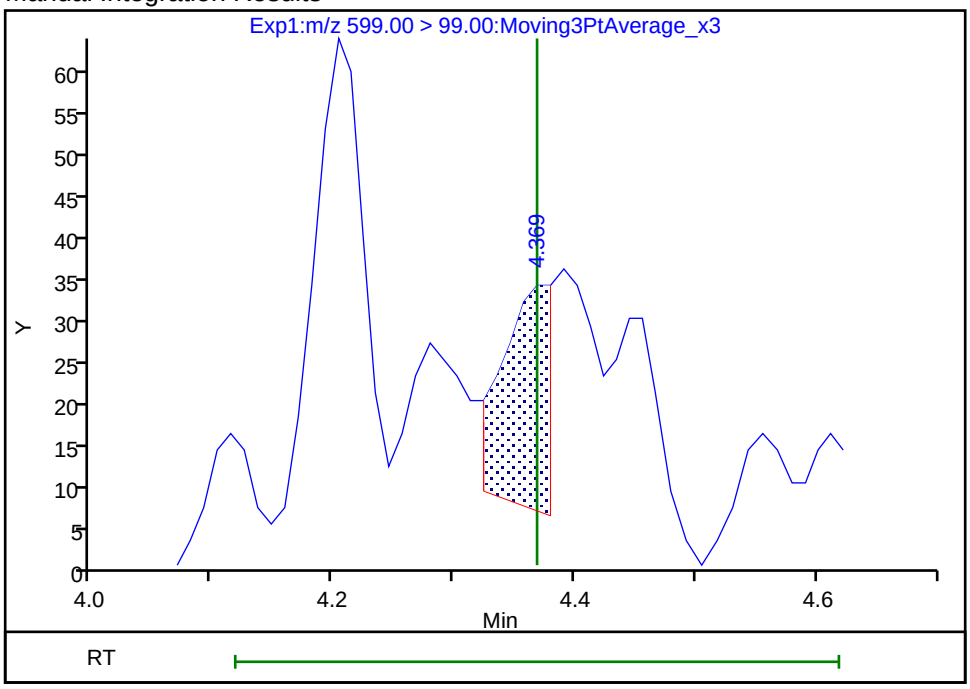
Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results

RT: 4.37
Area: 70
Amount: 0.000285
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:37:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

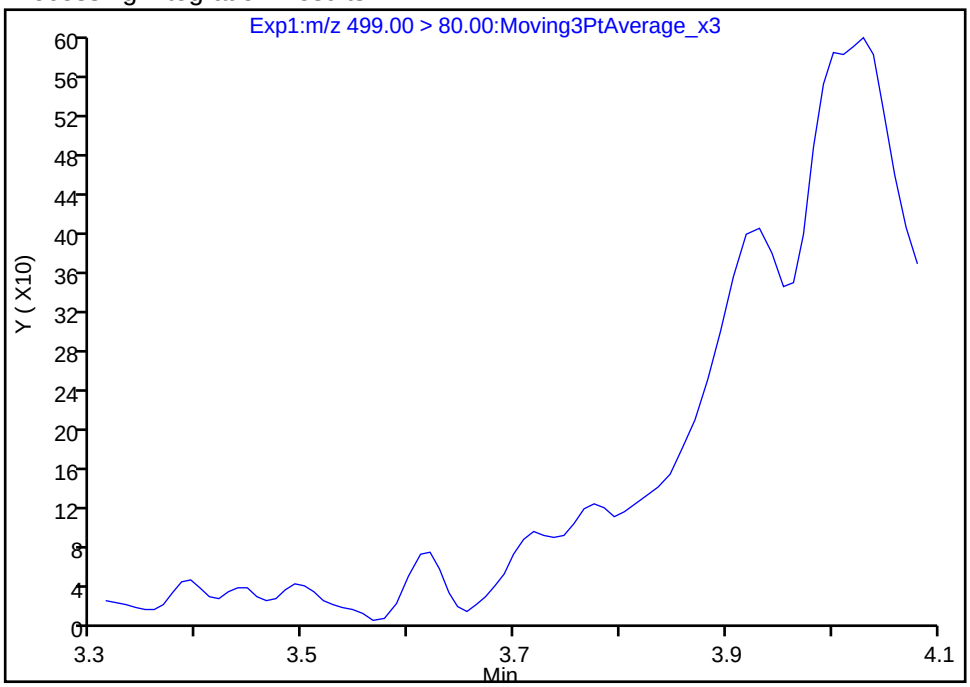
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

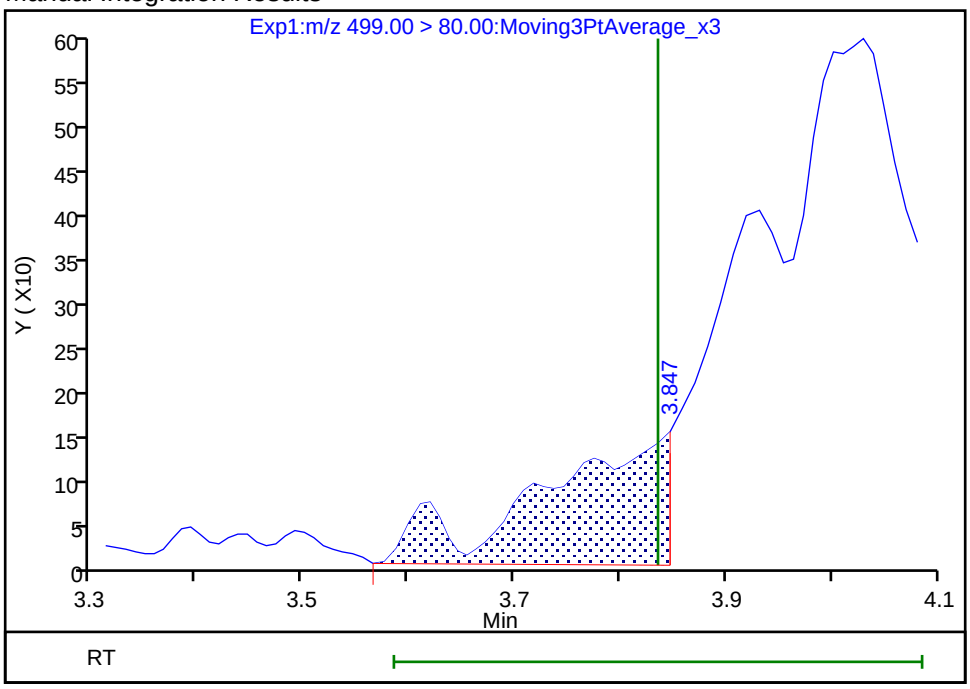
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.85
Area: 1215
Amount: 0.001810
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:35:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

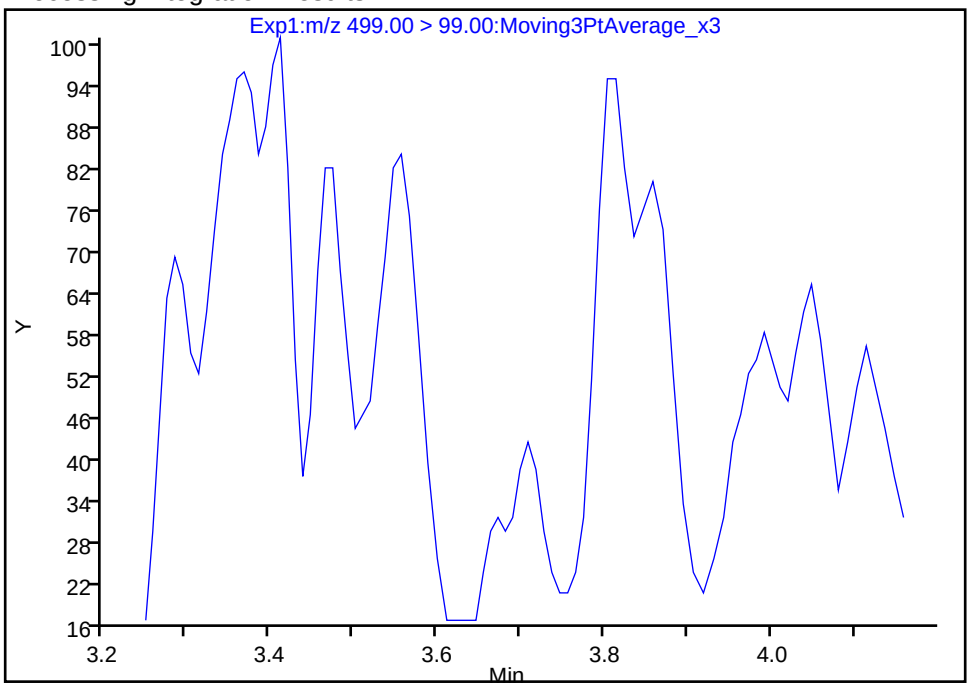
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

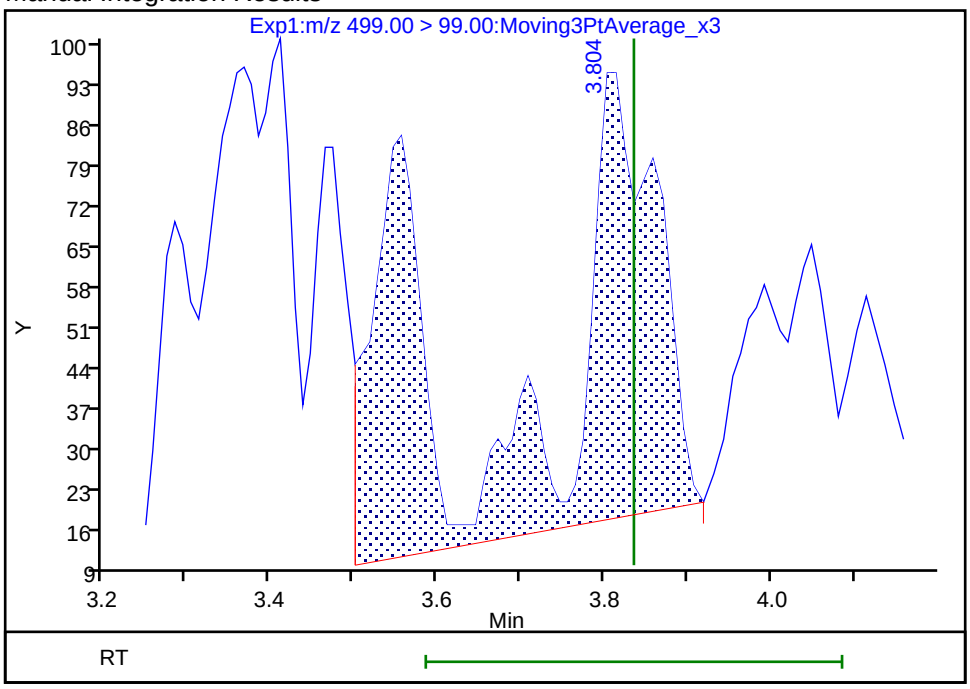
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 800
Amount: 0.001810
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:35:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

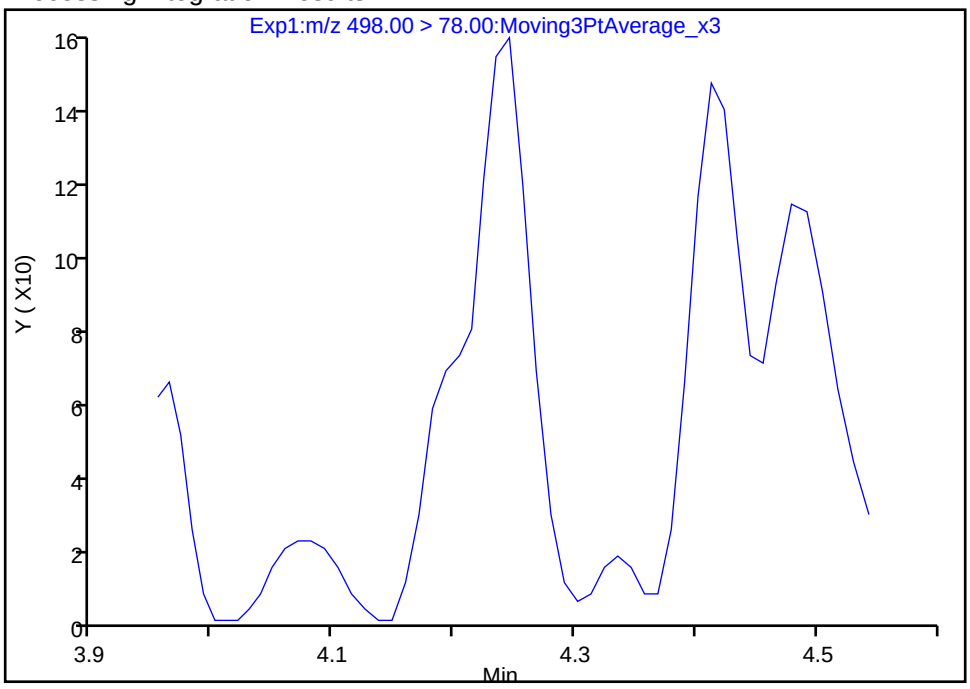
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

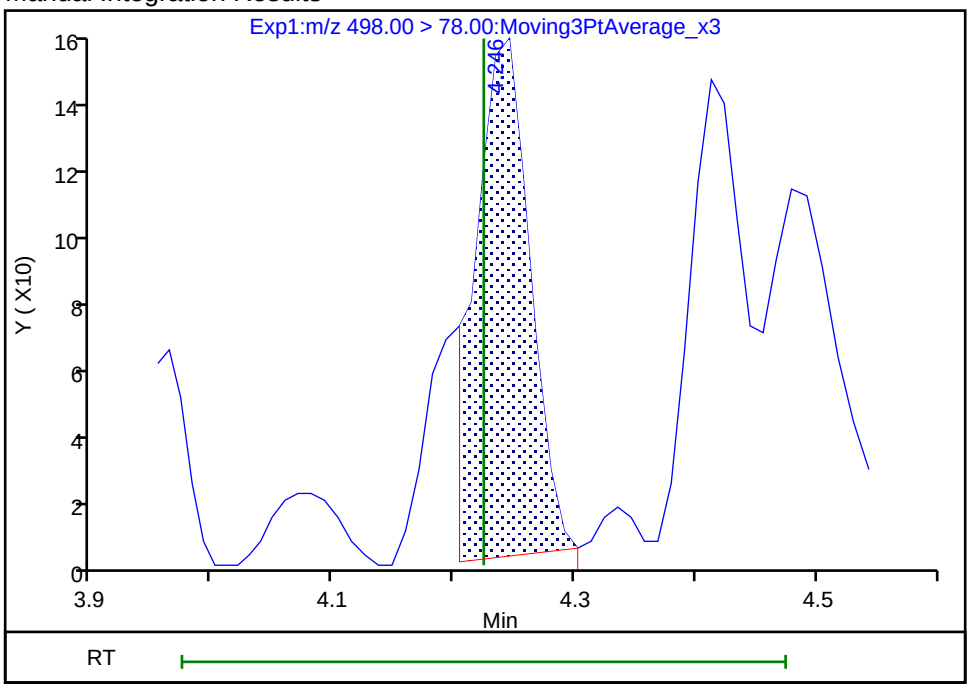
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.25
Area: 469
Amount: 0.000544
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:36:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

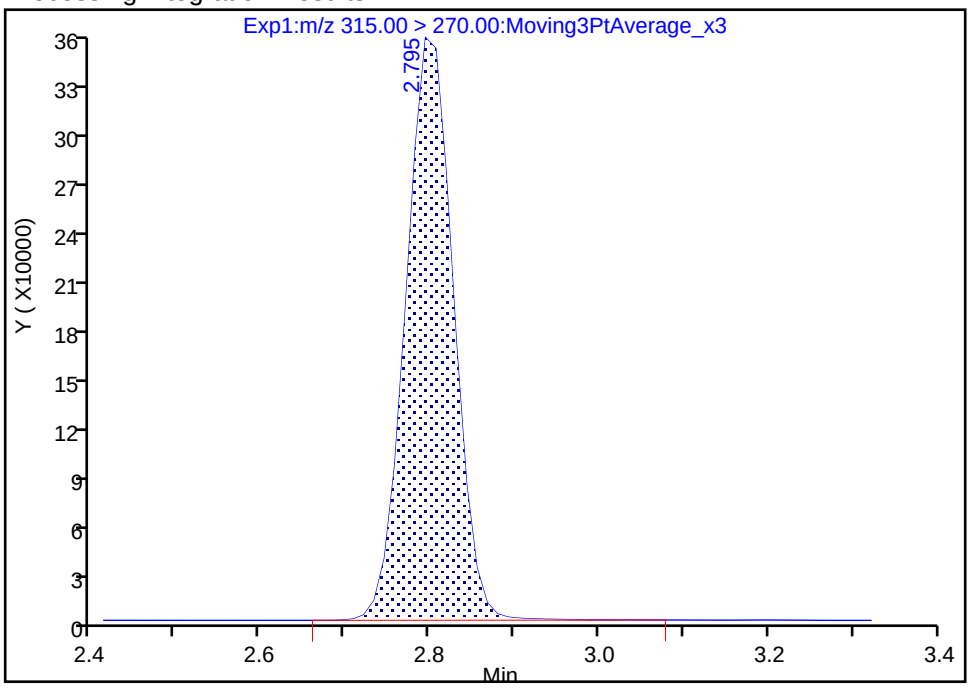
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

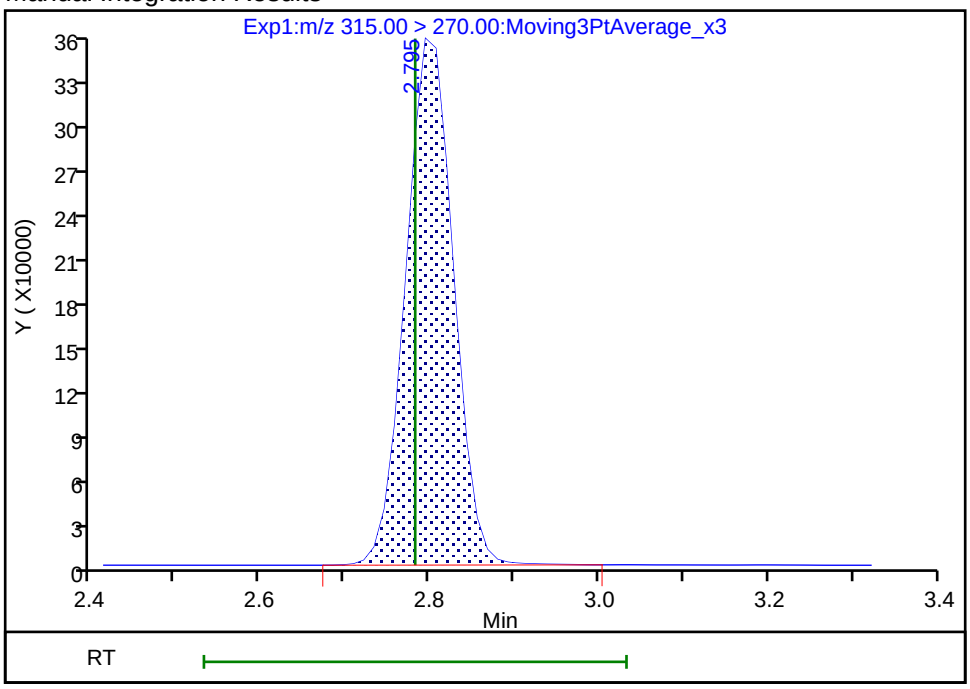
Processing Integration Results

RT: 2.79
Area: 1373818
Amount: 1.275897
Amount Units: ng/ml



Manual Integration Results

RT: 2.79
Area: 1372588
Amount: 1.274755
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:30:33

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

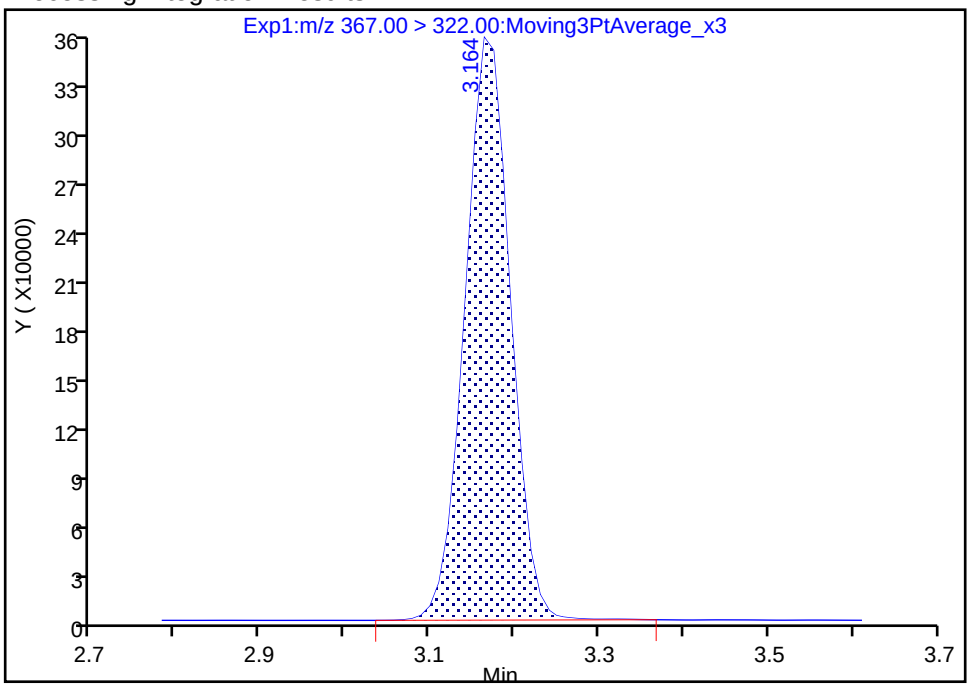
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

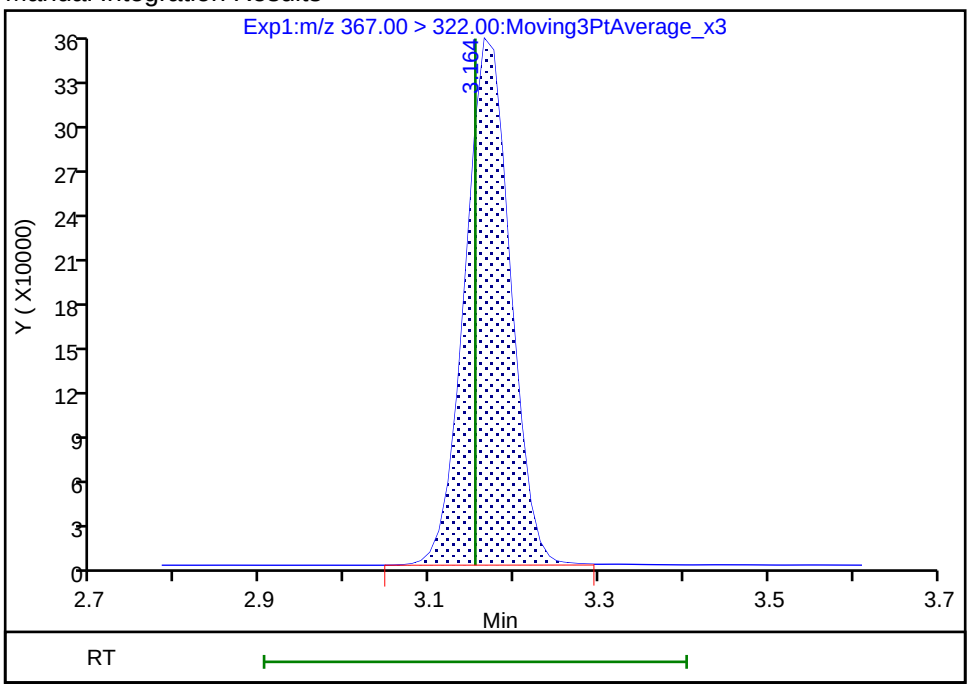
Processing Integration Results

RT: 3.16
Area: 1329956
Amount: 1.232131
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 1329954
Amount: 1.232129
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:30:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

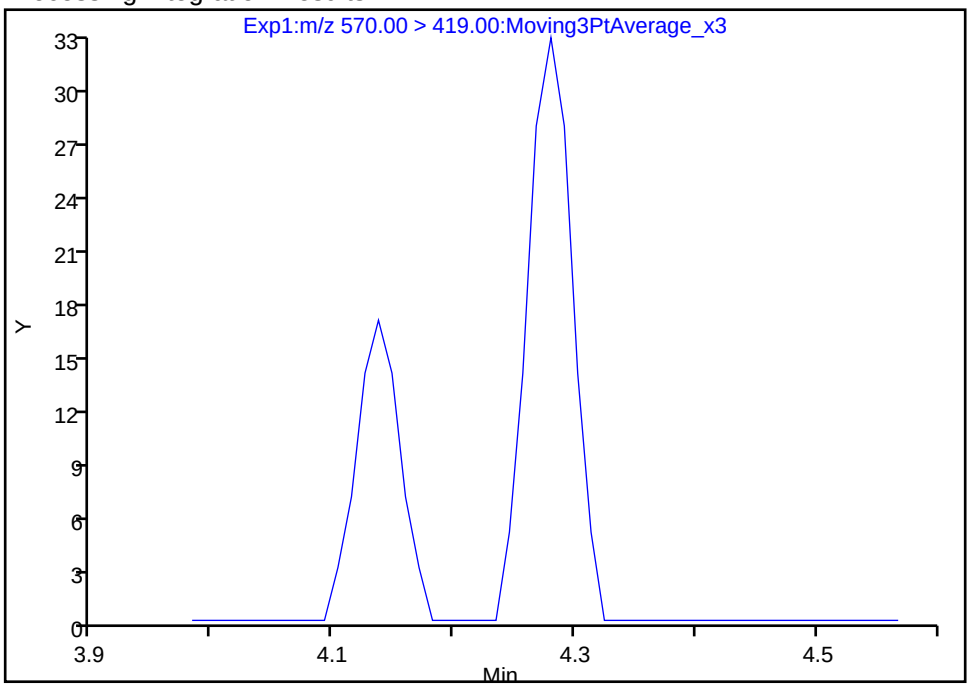
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

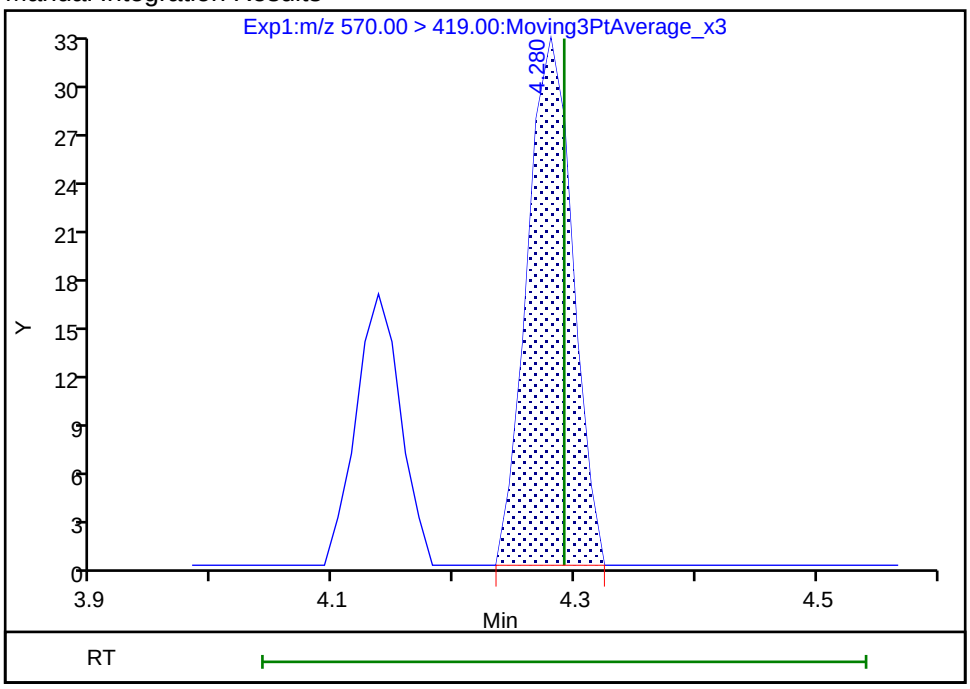
Not Detected
Expected RT: 4.29

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 86
Amount: 0.001532
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:36:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

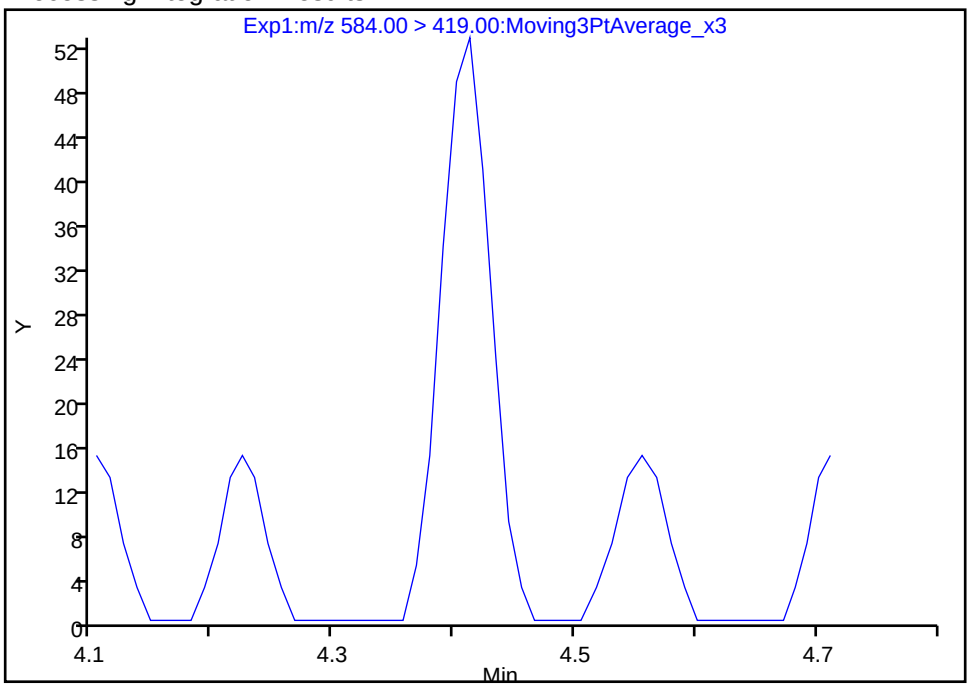
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

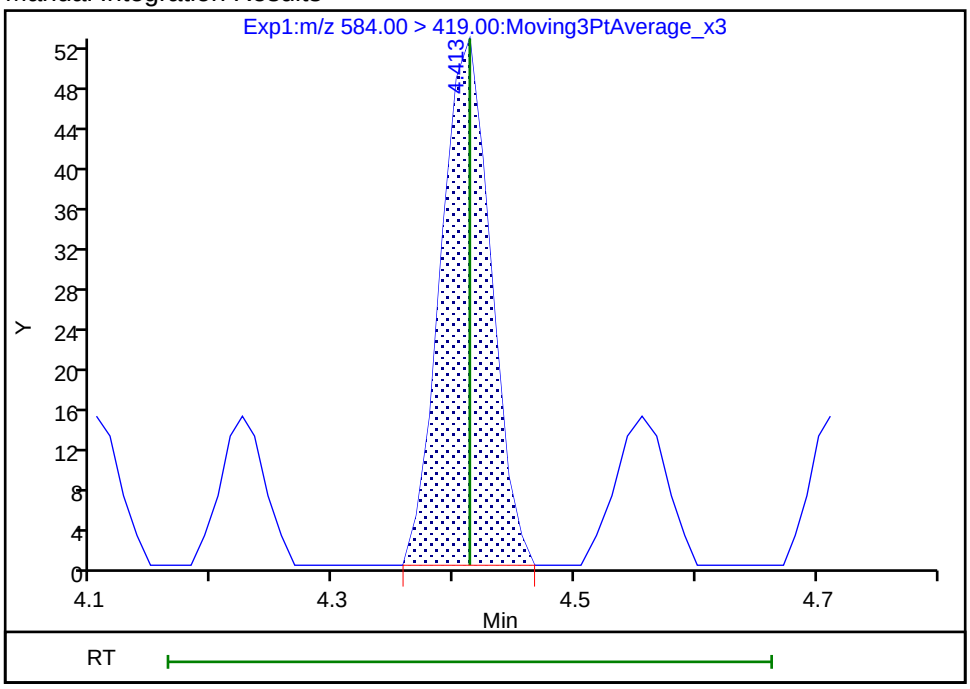
Not Detected
Expected RT: 4.41

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 152
Amount: 0.002698
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:37:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

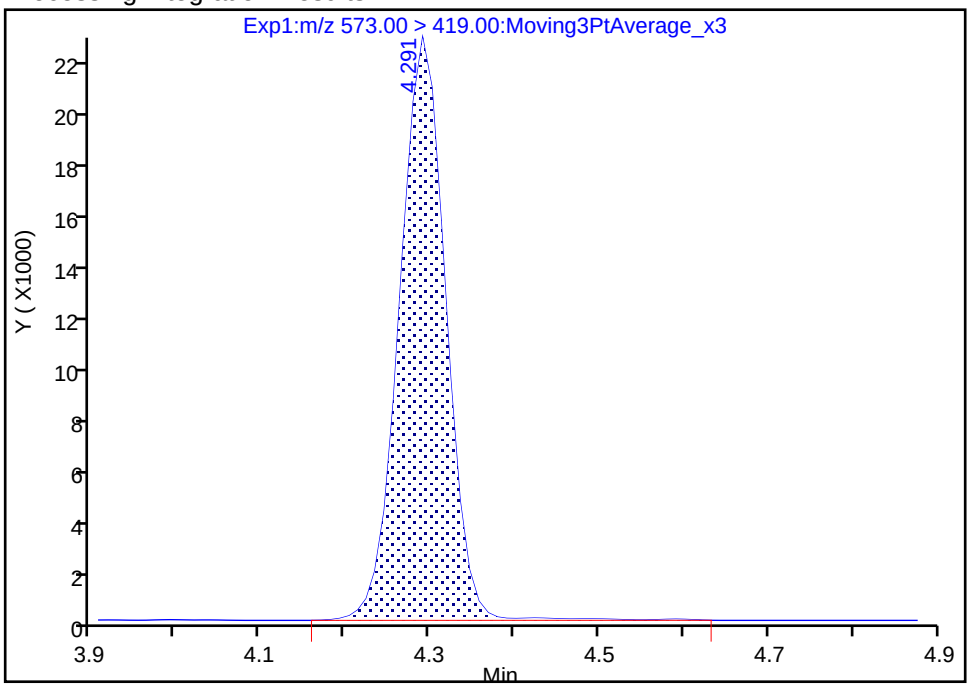
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

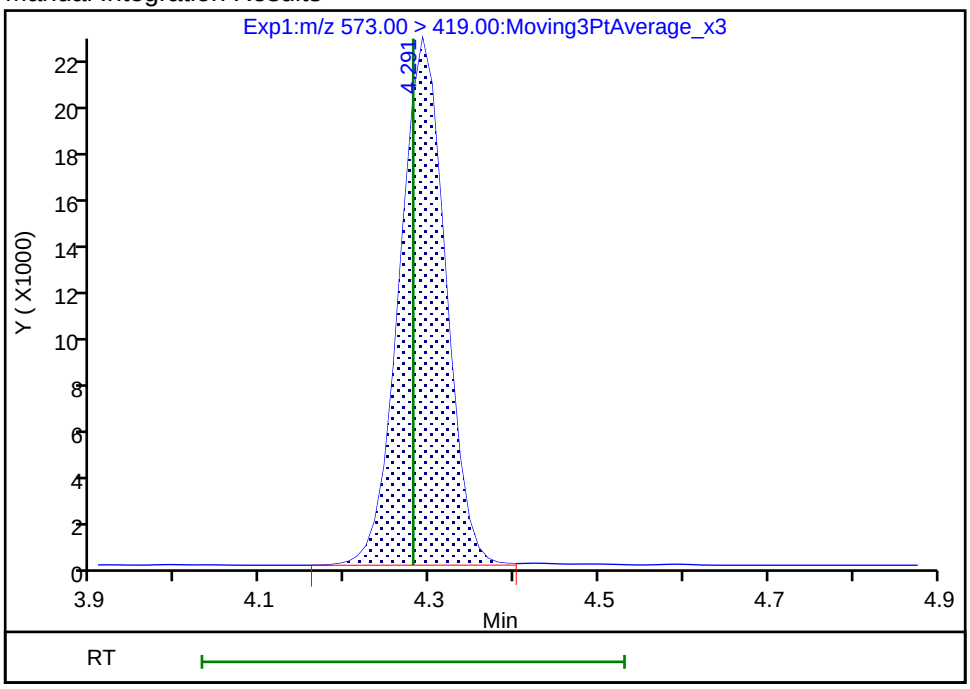
Processing Integration Results

RT: 4.29
Area: 85011
Amount: 1.203900
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 84404
Amount: 1.195304
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:31:46

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

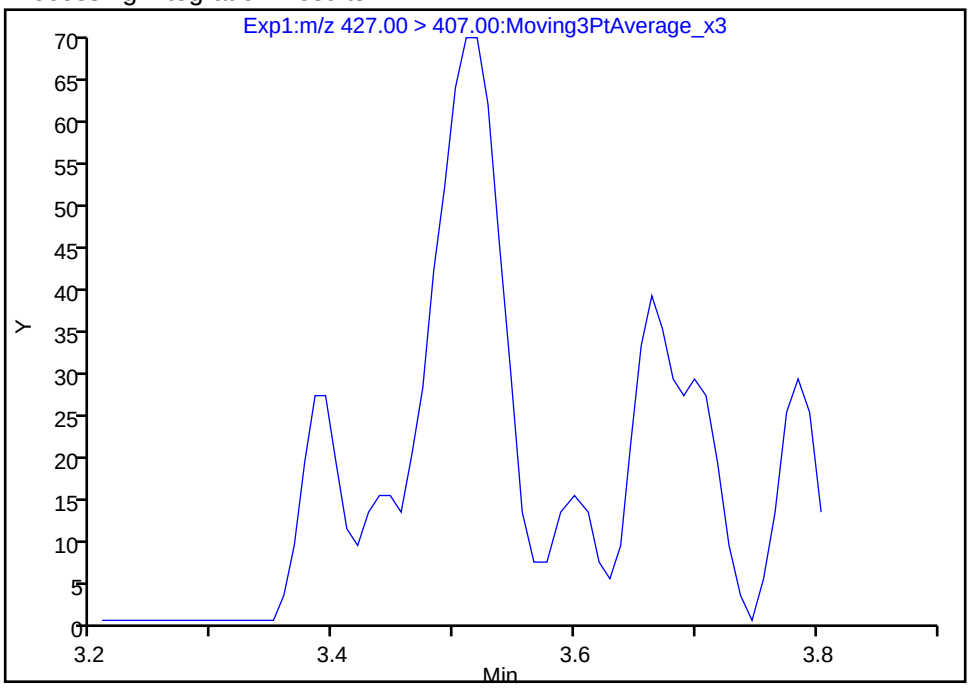
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

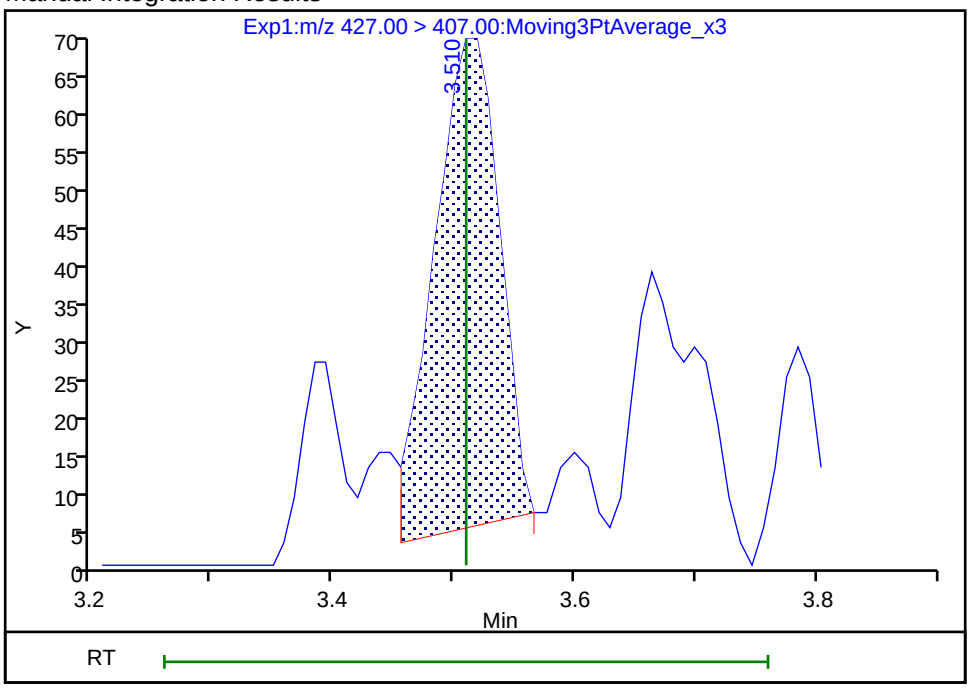
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 243
Amount: 0.001917
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:34:58
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

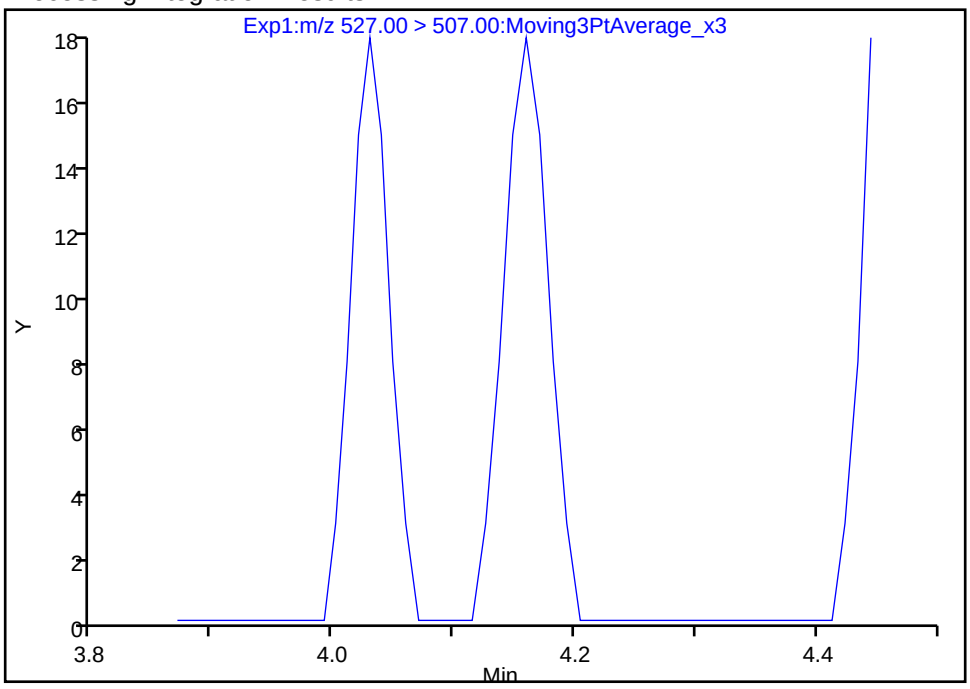
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

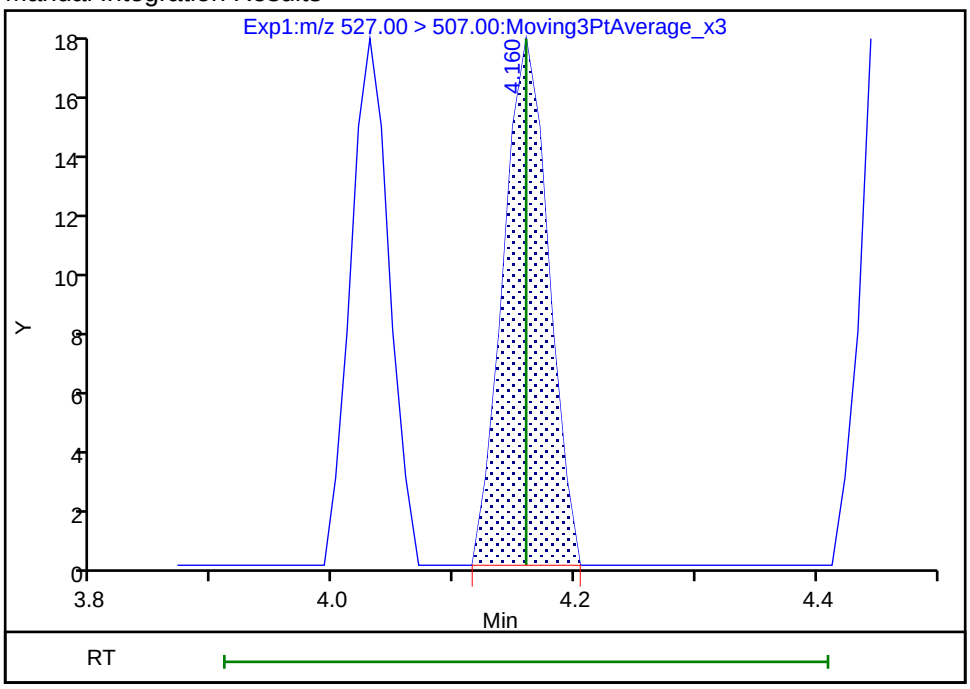
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 46
Amount: 0.000714
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:36:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

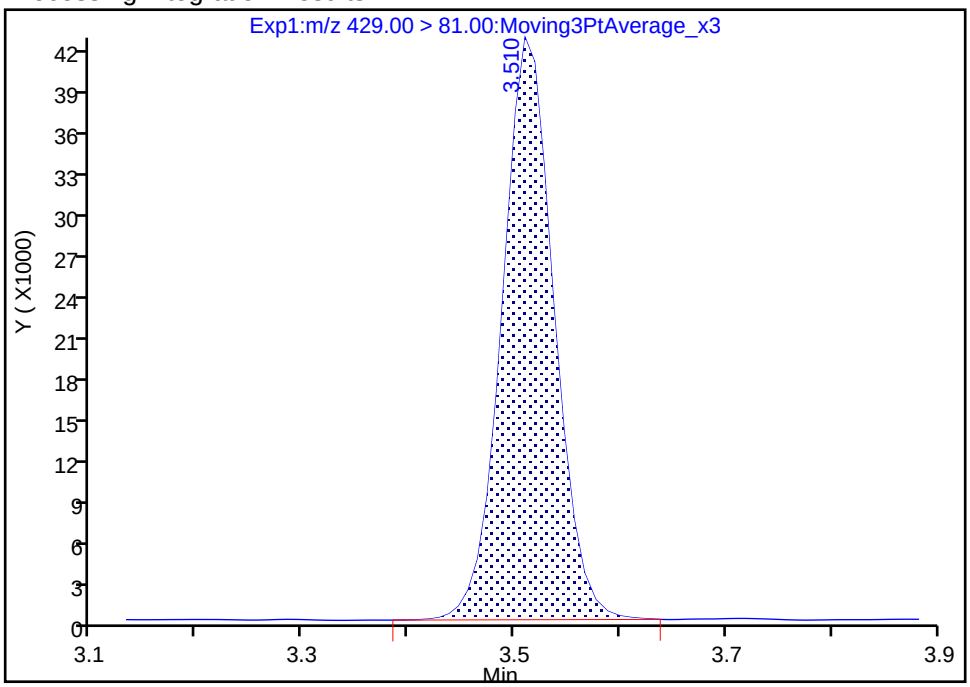
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

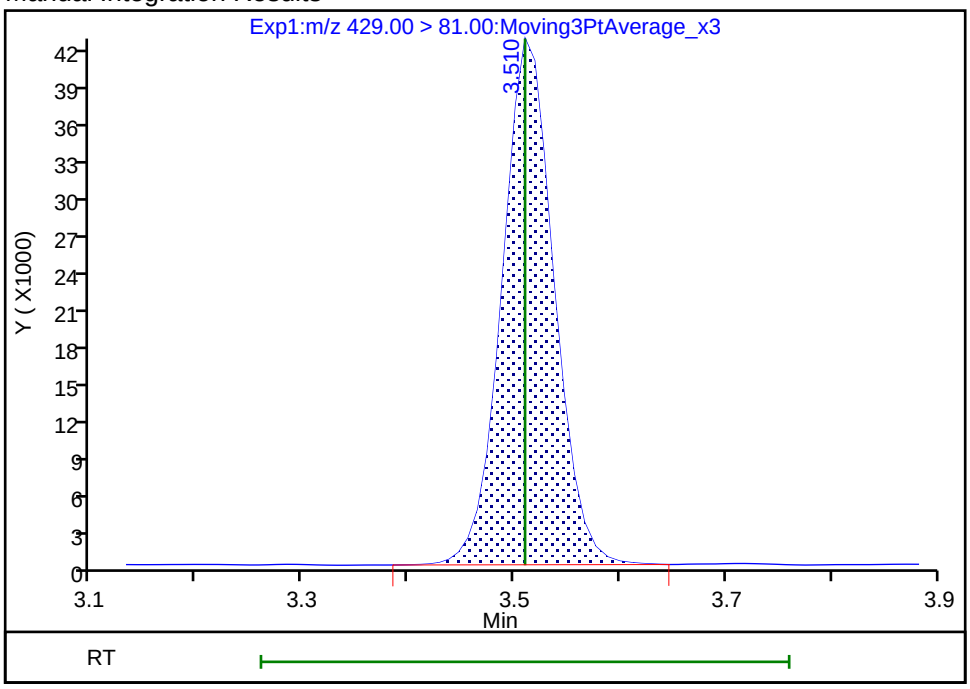
Processing Integration Results

RT: 3.51
Area: 145151
Amount: 1.272031
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 145270
Amount: 1.273074
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:30:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

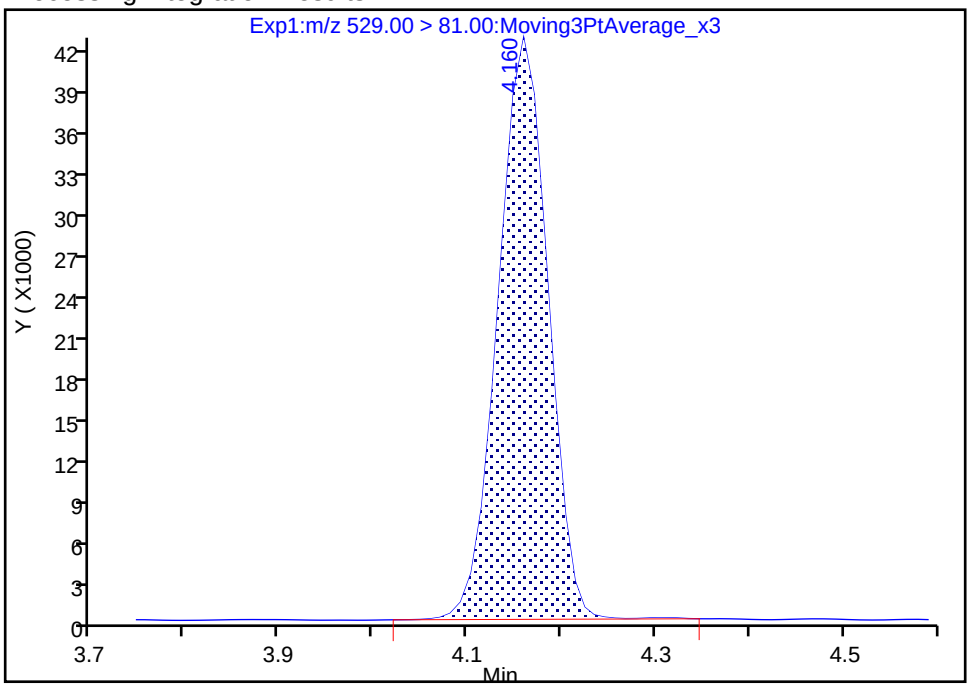
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A20.d				
Injection Date:	11-Aug-2021 15:22:59	Instrument ID:	LC812		
Lims ID:	480-188016-A-14-A	Lab Sample ID:	200-188016-14		
Client ID:	EB-080321				
Operator ID:	lc812tech	ALS Bottle#:	17	Worklist Smp#:	20
Injection Vol:	20.0 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

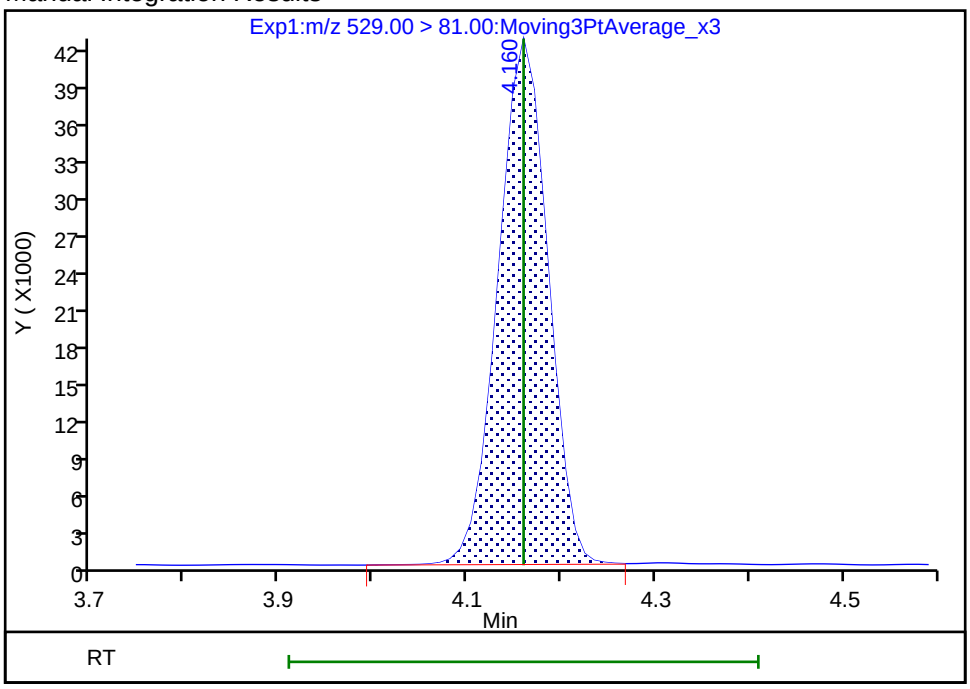
Processing Integration Results

RT: 4.16
Area: 154935
Amount: 1.140224
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 154930
Amount: 1.140187
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 10:31:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-168873/2	PA210708ICAL02.d
Level 2	IC 200-168873/3	PA210708ICAL03.d
Level 3	IC 200-168873/4	PA210708ICAL04.d
Level 4	ICIS 200-168873/5	PA210708ICAL05.d
Level 5	IC 200-168873/6	PA210708ICAL06.d
Level 6	IC 200-168873/7	PA210708ICAL07.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								
Perfluorobutanoic acid (PFBA)	1.0489 0.8905	1.0057	0.9652	0.9792	0.8929	AveID		0.9638				6.5		35.0			
Perfluoropentanoic acid (PFPeA)	1.1270 0.9597	1.0474	1.0251	1.0842	0.9663	AveID		1.0350				6.3		35.0			
Perfluorobutanesulfonic acid (PFBS)	1.1494 0.9786	1.0672	1.0891	1.1542	1.0424	AveID		1.0801				6.2		35.0			
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	2.1379 1.9391	1.7733	1.9362	1.9009	1.8820	AveID		1.9282				6.2		50.0			
Perfluorohexanoic acid (PFHxA)	1.0087 0.9734	1.0597	1.0023	1.0174	0.9749	AveID		1.0061				3.2		35.0			
Perfluoropentanesulfonic acid (PFPeS)	1.2459 1.1770	1.2764	1.2276	1.2850	1.1631	AveID		1.2292				4.1		50.0			
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	1.7237 1.4818	1.5297	1.7783	1.7054	1.7036	AveID		1.6538				7.2		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.2743 1.0750	1.1983	1.1141	1.1533	1.1273	AveID		1.1571				6.1		35.0			
Perfluoroheptanoic acid (PFHpA)	1.0808 0.9940	1.0274	1.0450	1.0701	0.9866	AveID		1.0340				3.7		35.0			
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	3.6780 3.3224	3.7275	3.5618	3.4983	3.3448	AveID		3.5221				4.8		50.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.2578 1.2137	1.3107	1.2521	1.2748	1.1623	AveID		1.2452				4.1		50.0			
6:2 FTS	1.1236 0.9970	0.9709	1.0531	1.1103	0.9636	AveID		1.0364				6.8		35.0			
Perfluorooctanoic acid (PFOA)	1.1364 0.9570	1.1250	1.0508	1.0557	0.9899	AveID		1.0525				6.8		35.0			

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

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

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								
Perfluorooctanesulfonic acid (PFOS)	1.2452 1.0299	1.1730	1.1054	1.1088	1.0618	AveID		1.1207				6.9		35.0			
Perfluorononanoic acid (PFNA)	1.0482 0.9305	0.9675	0.9826	0.9899	0.8828	AveID		0.9669				5.8		35.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	1.3487 1.1913	1.2047	1.2256	1.1988	1.1838	AveID		1.2255				5.1		50.0			
Perfluorononanesulfonic acid (PFNS)	0.8680 0.7916	0.8286	0.8287	0.8574	0.8047	AveID		0.8298				3.5		50.0			
Perfluorodecanoic acid (PFDA)	1.1316 0.9338	1.2047	1.0438	1.0290	1.0437	AveID		1.0644				8.7		35.0			
8:2 FTS	0.5013 0.4925	0.4913	0.5324	0.5104	0.4615	AveID		0.4982				4.7		35.0			
Perfluorooctanesulfonamide (FOSA)	0.9973 0.9272	1.0236	0.9635	0.9870	0.9699	AveID		0.9781				3.4		35.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.7008 0.8075	0.9811	0.7700	0.8903	0.8381	AveID		0.8313				11.7		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.6489 0.6204	0.6313	0.6336	0.6736	0.5926	AveID		0.6334				4.3		50.0			
Perfluoroundecanoic acid (PFUnA)	0.9384 0.9768	0.9598	0.9761	1.0081	0.9454	AveID		0.9674				2.6		35.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.8096 0.8755	0.9425	0.8104	0.8482	0.7970	AveID		0.8472				6.5		35.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	1.0658 0.9807	1.0448	0.9552	1.0329	0.9925	AveID		1.0120				4.2		50.0			
Perfluorododecanoic acid (PFDoA)	1.0161 0.9077	1.0339	1.0828	1.0142	1.0018	AveID		1.0094				5.7		35.0			
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	0.1988 0.2697	0.2474	0.2680	0.2661	0.2632	AveID		0.2522				10.8		50.0			
Perfluorododecanesulfonic acid (PFDoS)	0.2011 0.2086	0.2361	0.2119	0.2259	0.2092	AveID		0.2155				6.0		50.0			
Perfluorotridecanoic acid (PFTriA)	0.8819 0.7475	1.0027	0.8806	0.8830	0.8251	AveID		0.8702				9.6		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.1915 0.1664	0.1741	0.1687	0.1693	0.1612	AveID		0.1719				6.1		35.0			

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

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

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								
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.1285 0.8787	1.0131	1.0068	1.0043	0.8986	L2ID	0.0096	0.9347							0.9970		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.8674 0.8147	0.8136	0.8871	0.8566	0.8400	AveID		0.8466				3.5		50.0			
13C4 PFBA	1.1757 1.1762	1.1461	1.1158	1.1265	1.1266	Ave		1.1445				2.3		30.0			
13C5 PFPeA	0.8592 0.8888	0.8892	0.8566	0.8388	0.8633	Ave		0.8660				2.3		30.0			
13C3 PFBS	0.8909 0.9964	0.9425	0.8732	0.9022	0.9000	Ave		0.9175				4.9		30.0			
M2-4:2 FTS	0.0796 0.0752	0.0768	0.0758	0.0757	0.0717	Ave		0.0758				3.4		30.0			
13C2 PFHxA	0.9995 0.9633	0.9710	0.9220	0.9389	0.9294	Ave		0.9540				3.1		30.0			
13C3 HFPO-DA	0.1097 0.1159	0.1181	0.0922	0.0939	0.0885	Ave		0.1030				12.6		30.0			
18O2 PFHxS	0.7267 0.7660	0.7314	0.7164	0.7280	0.7050	Ave		0.7289				2.8		30.0			
13C4 PFHpA	0.9702 0.9529	1.0291	0.9099	0.9416	0.9344	Ave		0.9564				4.3		30.0			
M2-6:2 FTS	0.0986 0.1046	0.1053	0.1013	0.1011	0.0956	Ave		0.1011				3.6		30.0			
13C4 PFOA	0.9975 0.9974	1.0051	0.9781	0.9925	0.9539	Ave		0.9874				1.9		30.0			
13C4 PFOS	0.5309 0.5563	0.5273	0.5189	0.5334	0.5246	Ave		0.5319				2.4		30.0			
13C5 PFNA	0.9558 0.9684	0.9281	0.9070	0.9457	0.9223	Ave		0.9379				2.4		30.0			
13C2 PFDA	0.8621 0.8814	0.8309	0.8346	0.8630	0.8323	Ave		0.8507				2.5		30.0			
M2-8:2 FTS	0.1220 0.1237	0.1200	0.1224	0.1134	0.1207	Ave		0.1204				3.0		30.0			
13C8 FOSA	0.9153 0.9379	0.9518	0.9445	0.9618	0.9172	Ave		0.9381				2.0		30.0			
d3-NMeFOSAA	0.0558 0.0676	0.0633	0.0617	0.0651	0.0618	Ave		0.0626				6.3		30.0			

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

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

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								
13C2 PFUnA	0.7007 0.6753	0.7069	0.6505	0.6554	0.6592	Ave		0.6747				3.6		30.0			
d5-NEtFOSAA	0.0686 0.0640	0.0668	0.0621	0.0628	0.0665	Ave		0.0651				3.9		30.0			
13C2 PFDoA	0.7301 0.7702	0.6746	0.6495	0.6938	0.6670	Ave		0.6975				6.4		30.0			
13C2 PFTeDA	0.5428 0.5707	0.5450	0.5333	0.5519	0.5370	Ave		0.5468				2.4		30.0			
13C2 PFHxDA	0.5429 0.6124	0.5718	0.5165	0.5417	0.5539	Ave		0.5565				5.9		30.0			

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

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-168873/2	PA210708ICAL02.d
Level 2	IC 200-168873/3	PA210708ICAL03.d
Level 3	IC 200-168873/4	PA210708ICAL04.d
Level 4	ICIS 200-168873/5	PA210708ICAL05.d
Level 5	IC 200-168873/6	PA210708ICAL06.d
Level 6	IC 200-168873/7	PA210708ICAL07.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	69257 10819800	120953	596123	1280004	2973341	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	54383 8811809	97734	486028	1055215	2465672	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	50839 8904613	93300	465334	1068073	2451187	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)		AveID	8923 1406486	13350	75904	155959	372466	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	56624 9687309	107962	511502	1108383	2677863	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	47697 8735896	91884	456598	1018103	2273386	0.0469 9.38	0.0938	0.469	0.938	2.35
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		AveID	10616 1774905	18953	90771	185739	445626	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	47327 7740789	83688	402004	886495	2137703	0.0455 9.10	0.0910	0.455	0.910	2.28
Perfluoroheptanoic acid (PFHpA)		AveID	58894 9784969	110943	526282	1169206	2724880	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

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
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		AveI D	103309 17987485	194295	963607	2039661	4885293	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluoroheptanesulfonic Acid (PFHpS)		AveI D	35703 6640886	69046	342333	751176	1715703	0.0476 9.52	0.0952	0.476	0.952	2.38
6:2 FTS		AveI D	5900 1021725	10172	55984	123442	258223	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveI D	63657 9860180	118647	568868	1215762	2790891	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveI D	34456 5493096	60234	294608	636862	1527804	0.0464 9.28	0.0928	0.464	0.928	2.32
Perfluorononanoic acid (PFNA)		AveI D	56265 9308892	94218	493341	1086298	2406459	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O		AveI D	37479 6381297	62127	328054	691544	1710720	0.0466 9.32	0.0932	0.466	0.932	2.33
Perfluorononanesulfonic acid (PFNS)		AveI D	24845 4367470	44013	228489	509488	1197735	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveI D	54785 8502291	105029	482203	1030459	2567573	0.0500 10.0	0.100	0.500	1.00	2.50
8:2 FTS		AveI D	3290 603012	5929	34569	64353	157764	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (FOSA)		AveI D	51264 8983989	102221	503727	1101480	2629389	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveI D	2198 563736	6517	26298	67250	153204	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

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
Perfluorodecanesulfonic acid (PFDS)		AveI D	18652 3437140	33676	175429	401893	885737	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveI D	36928 6813912	71196	351453	766710	1841978	0.0500 10.0	0.100	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveI D	3119 578635	6603	27857	61816	156660	0.0500 10.0	0.100	0.500	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF		AveI D	29936 5309315	54460	258412	602237	1449620	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveI D	41665 7221922	73185	389282	816452	1974930	0.0500 10.0	0.100	0.500	1.00	2.50
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)		AveI D	1313 332269	3004	17511	33760	90532	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveI D	5805 1160676	12648	58923	135326	314053	0.0484 9.68	0.0968	0.484	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveI D	36164 5947170	70974	316613	710827	1626664	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveI D	5839 980843	9954	49783	108441	255833	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	34410 5558571	60792	287844	631202	1471114	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveI D	26448 5153641	48822	253634	538360	1375207	0.0500 10.0	0.100	0.500	1.00	2.50
13C4 PFBA	13PFOA	Ave	1650645 1518841	1503281	1543980	1633918	1664959	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

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
13C5 PFPeA	13PFOA	Ave	1206338 1147675	1166341	1185371	1216538	1275812	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PFOA	Ave	1163284 1196640	1149674	1123749	1216936	1236969	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PFOA	Ave	104343 90668	94104	98008	102557	98957	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PFOA	Ave	1403345 1243956	1273524	1275813	1361827	1373463	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PFOA	Ave	153967 149725	154872	127609	136142	130787	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PFOA	Ave	965256 935670	907499	937804	998847	985620	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PFOA	Ave	1362229 1230462	1349831	1259107	1365717	1380887	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PFOA	Ave	131554 128370	131237	133182	139271	134266	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PFOA	Ave	1400455 1287896	1318355	1353447	1439464	1409693	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PFOA	Ave	712637 686805	661239	686404	739646	741138	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PFOA	Ave	1341900 1250471	1217333	1255153	1371692	1363020	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PFOA	Ave	1210351 1138132	1089788	1154945	1251726	1230009	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
PFAS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1 Analy Batch No.: 168873

SDG No.:

Instrument ID: LC812 GC Column: C-18 ID: 4.6(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2021 15:19 Calibration End Date: 07/08/2021 16:00 Calibration ID: 46161

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
M2-8:2 FTS	13PFOA	Ave	164067 153059	150847	162319	157618	170914	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PFOA	Ave	1285037 1211121	1248356	1306977	1395013	1355436	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PFOA	Ave	78411 87263	83033	85387	94423	91401	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PFOA	Ave	983851 871958	927192	900133	950646	974207	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PFOA	Ave	96313 82615	87576	85934	91102	98283	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PFOA	Ave	1025132 994501	884777	898805	1006236	985706	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PFOA	Ave	762112 736976	714829	737942	800497	793550	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PFOA	Ave	762281 790763	750052	714756	785615	818537	1.25 1.25	1.25	1.25	1.25	1.25

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: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Jul-2021 15:19:02 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0046726-002 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 08-Jul-2021 16:35:17 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1667

First Level Reviewer: chirgwinb Date: 08-Jul-2021 16:02:54
Ratio Calibration: Average of Initial Calibration

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	2.100	2.109	-0.009	0.600	1650645	1.28		103	10322	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.100	2.109	-0.009	1.000	69257	0.0544		109	11.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.426	2.439	-0.013	0.693	1206338	1.24		99.2	3342	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.426	2.439	-0.013	1.000	54383	0.0544		109	8.3	M
D 47 13C3 PFBS										
301.90 > 80.00	2.439	2.452	-0.013	0.697	1163284	1.13		97.1	221783	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.439	2.452	-0.013	1.000	50839	0.0470	Target=2.20	106	156	M
298.90 > 99.00	2.439	2.452	-0.013	1.000	24123		2.11(1.10-3.30)	106	20.2	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.746	2.758	-0.012	1.000	8923	0.0518		111	229	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.746	2.758	-0.012	0.784	104343	1.23		105	171	
D 7 13C2 PFHxA										
315.00 > 270.00	2.782	2.795	-0.013	0.795	1403345	1.31		105	3687	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.782	2.795	-0.013	1.000	56624	0.0501	Target=13.03	100	15.3	M
313.00 > 119.00	2.782	2.795	-0.013	1.000	4410		12.84(6.51-19.54)	100	11.2	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.782	2.795	-0.013	0.885	47697	0.0475	Target=3.51	101	258	
349.00 > 99.00	2.782	2.795	-0.013	0.885	15427		3.09(1.75-5.26)	101	35.4	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.892	2.902	-0.010	1.000	10616	0.0521		104	3.7	M

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	2.892	2.902	-0.010	0.826	153967	1.33		106	1254	
D 9 13C4 PFHpA										
367.00 > 322.00	3.143	3.154	-0.011	0.898	1362229	1.27		101	3400	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.143	3.154	-0.011	1.000	58894	0.0523	Target=3.67	105	33.6	
363.00 > 169.00	3.143	3.154	-0.011	1.000	17315		3.40(1.84-5.51)	105	50.9	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.143	3.154	-0.011	1.000	47327	0.0501	Target=4.55	110	239	
399.00 > 99.00	3.143	3.154	-0.011	1.000	9887		4.79(2.28-6.83)	110	15.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.143	3.154	-0.011	0.898	965256	1.18		99.7	2730	
77 DONA										
377.00 > 251.00	3.175	3.196	-0.021	0.835	103309	0.0492	Target=2.55	104	325	
377.00 > 85.00	3.175	3.196	-0.021	0.835	39526		2.61(1.27-3.82)	104	84.9	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.483	3.501	-0.018	0.916	35703	0.0481	Target=6.75	101	316	
449.00 > 99.00	3.483	3.501	-0.018	0.916	5307		6.73(3.37-10.12)	101	19.6	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.483	3.501	-0.018	0.995	131554	1.16		97.6	635	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.492	3.501	-0.009	1.003	5900	0.0514		108	78.9	M
D 14 13C4 PFOA										
417.00 > 372.00	3.501	3.510	-0.009	1.000	1400455	1.26		101	2944	
* 62 13C2 PFOA										
415.00 > 370.00	3.501	3.510	-0.009		1404026	1.25			3432	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.501	3.510	-0.009	1.000	63657	0.0540	Target=2.67	108	31.8	M
413.00 > 169.00	3.501	3.510	-0.009	1.000	22549		2.82(1.33-4.00)	108	67.8	M
D 18 13C4 PFOS										
503.00 > 80.00	3.804	3.814	-0.010	1.087	712637	1.19		99.8	3300	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.804	3.824	-0.020	1.000	34456	0.0516	Target=6.26	111	55.4	M
499.00 > 99.00	3.804	3.824	-0.020	1.000	6114		5.64(3.13-9.39)	111	20.6	M
D 19 13C5 PFNA										
468.00 > 423.00	3.824	3.836	-0.012	1.092	1341900	1.27		102	4765	
20 Perfluorononanoic acid										
463.00 > 419.00	3.824	3.847	-0.023	1.000	56265	0.0542	Target=6.99	108	21.9	
463.00 > 169.00	3.824	3.847	-0.023	1.000	7762		7.25(3.49-10.48)	108	65.0	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.964	3.983	-0.019	1.042	37479	0.0513		110	401	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.104	4.104	0.0	1.079	24845	0.0502	Target=3.17	105	486	
549.00 > 99.00	4.092	4.104	-0.012	1.076	6794		3.66(1.58-4.75)	105	33.4	
D 23 13C2 PFDA										
515.00 > 470.00	4.126	4.137	-0.011	1.179	1210351	1.27		101	4823	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.126	4.137	-0.011	1.000	54785	0.0532	Target=8.56	106	64.5	
513.00 > 169.00	4.126	4.137	-0.011	1.000	6467		8.47(4.28-12.83)	106	53.9	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.137	4.148	-0.011	1.000	3290	0.0482		101	89.5	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.137	4.148	-0.011	1.182	164067	1.21		101	1034	
D 21 13C8 FOSA										
506.00 > 78.00	4.204	4.214	-0.010	1.201	1285037	1.22		97.6	2184	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.204	4.214	-0.010	1.000	51264	0.0510		102	157	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.268	4.280	-0.012	1.219	78411	1.12		89.3	1217	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.268	4.280	-0.012	1.000	2198	0.0422		84.3	14.3	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.358	4.369	-0.011	1.146	18652	0.0494	Target=2.85	102	187	
599.00 > 99.00	4.358	4.369	-0.011	1.146	6261		2.98(1.42-4.27)	102	70.3	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.391	4.402	-0.011	1.000	36928	0.0485	Target=7.99	97.0	57.1	
563.00 > 169.00	4.391	4.402	-0.011	1.000	4600		8.03(4.00-11.99)	97.0	73.0	
D 30 13C2 PFUnA										
565.00 > 520.00	4.391	4.402	-0.011	1.254	983851	1.30		104	3925	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.402	4.413	-0.011	1.257	96313	1.32		105	1043	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.402	4.413	-0.011	1.000	3119	0.0478		95.6	68.9	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.479	4.492	-0.013	1.178	29936	0.0496		105	558	
D 36 13C2 PFDoA										
615.00 > 570.00	4.622	4.633	-0.010	1.320	1025132	1.31		105	3021	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.622	4.633	-0.010	1.000	41665	0.0503	Target=6.41	101	17.4	
613.00 > 169.00	4.622	4.633	-0.010	1.000	6768		6.16(3.21-9.62)	101	97.5	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.643	4.643	0.0	1.122	1313	0.0380		78.8	40.1	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.792	4.801	-0.009	1.260	5805	0.0452	Target=0.46	93.3	175	
699.00 > 99.00	4.792	4.801	-0.009	1.260	13393		0.43(0.23-0.69)	93.3	129	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.834	4.845	-0.011	1.046	36164	0.0507	Target=4.67	101	15.5	
663.00 > 169.00	4.822	4.845	-0.023	1.043	7120		5.08(2.33-7.00)	101	112	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.024	5.034	-0.010	1.435	762112	1.24		99.3	3125	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.024	5.034	-0.010	1.000	5839	0.0557	Target=1.01	111	114	
713.00 > 219.00	5.024	5.034	-0.010	1.000	5006		1.17(0.51-1.52)	111	188	

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	5.371	5.383	-0.012	1.002	34410	0.0501	Target=4.09	100	23.3	
813.00 > 169.00	5.371	5.383	-0.012	1.002	8831		3.90(2.05-6.14)	100	181	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.360	5.383	-0.023	1.531	762281	1.22		97.6	2735	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.692	5.701	-0.009	1.062	26448	0.0512	Target=3.78	102	26.6	
913.00 > 169.00	5.692	5.701	-0.009	1.062	7096		3.73(1.89-5.67)	102	209	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC1_00009 Amount Added: 100.00 Units: uL

Report Date: 08-Jul-2021 16:35:17 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d

Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812

Lims ID: IC

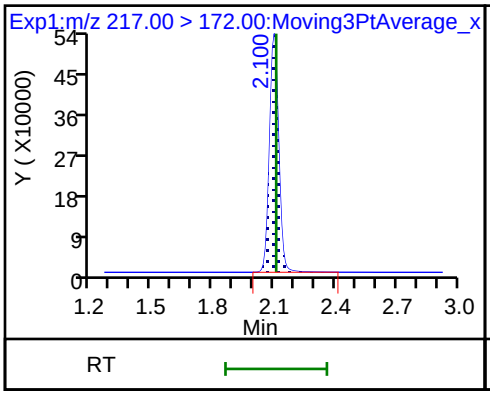
Client ID:

Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2

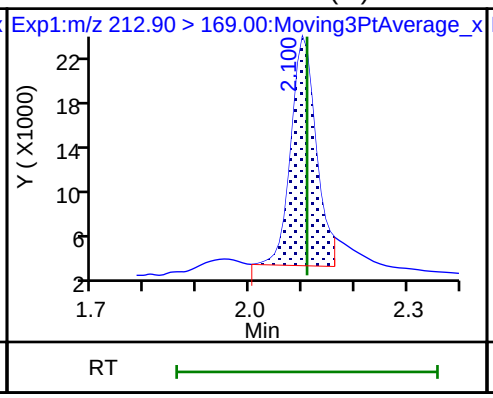
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

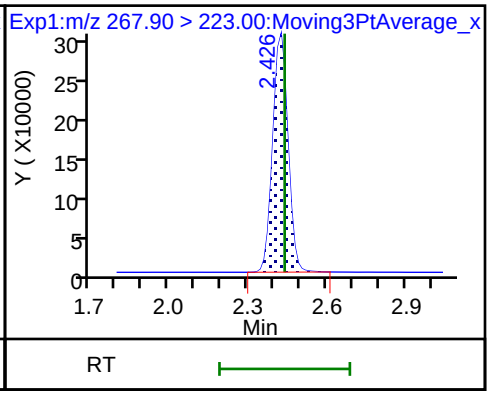
D 1 13C4 PFBA



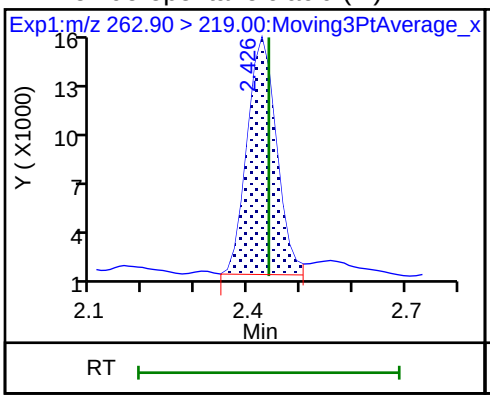
2 Perfluorobutanoic acid (M)



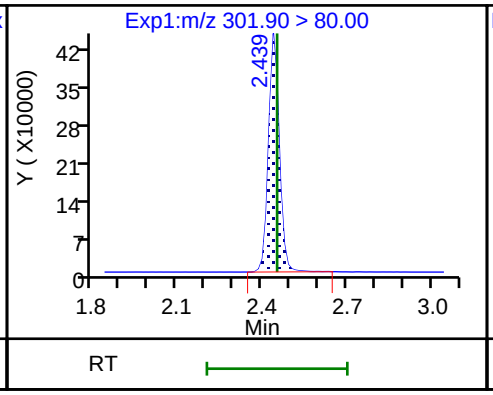
D 3 13C5 PFPeA



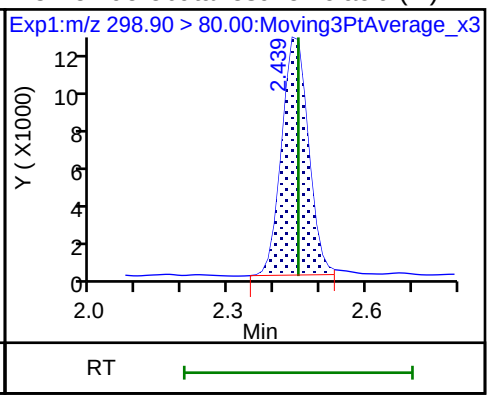
4 Perfluoropentanoic acid (M)



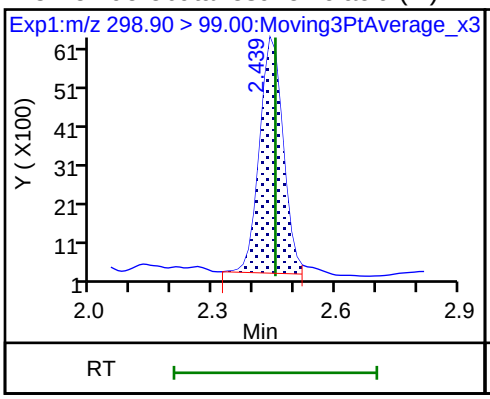
D 47 13C3 PFBS



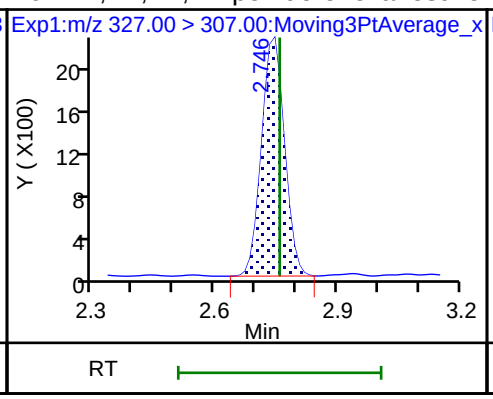
5 Perfluorobutanesulfonic acid (M)



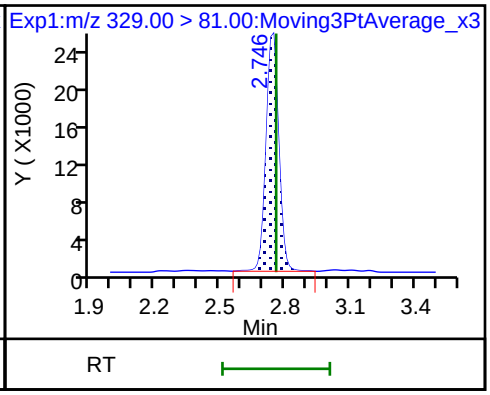
5 Perfluorobutanesulfonic acid (M)



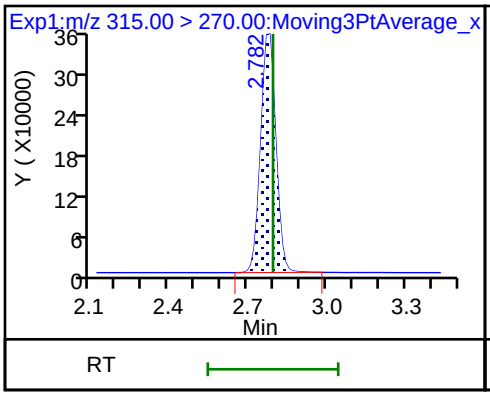
61 1H,1H,2H,2H-perfluorohexanesulfo



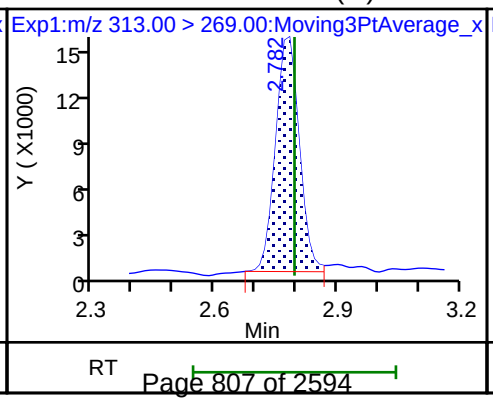
D 60 M2-4:2 FTS



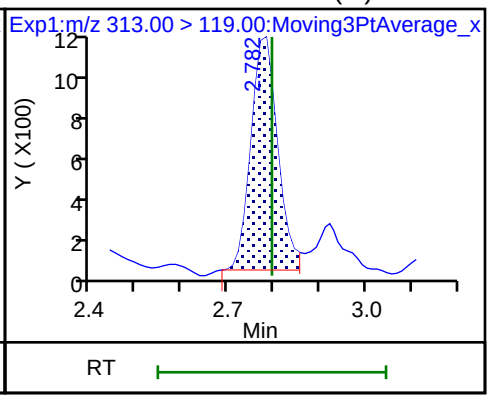
D 7 13C2 PFHxA



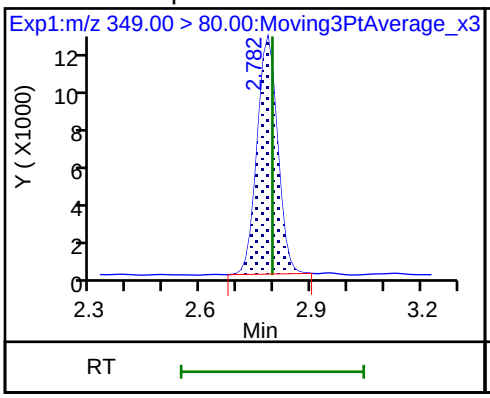
6 Perfluorohexanoic acid (M)



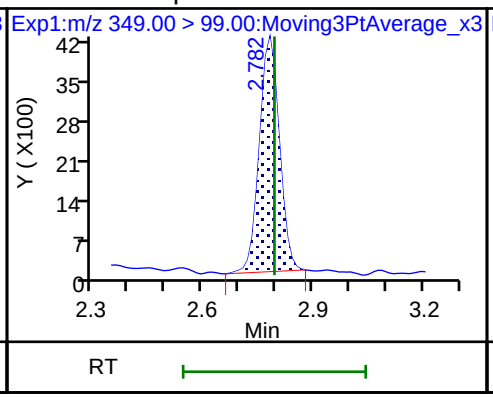
6 Perfluorohexanoic acid (M)



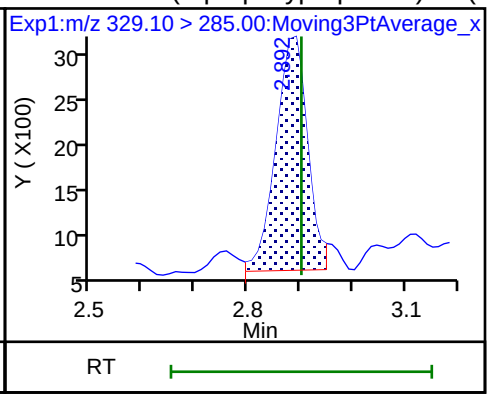
70 Perfluoropentanesulfonic acid



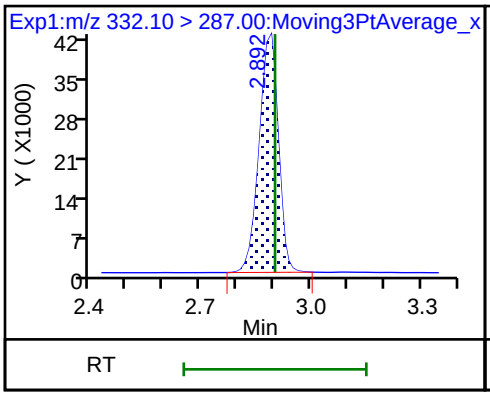
70 Perfluoropentanesulfonic acid



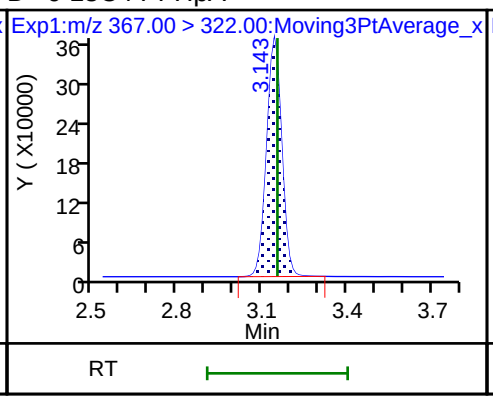
67 Perfluoro(2-propoxypropanoic) ac (M)



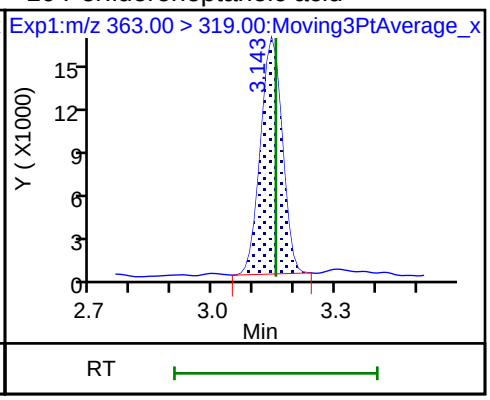
D 64 13C3 HFPO-DA



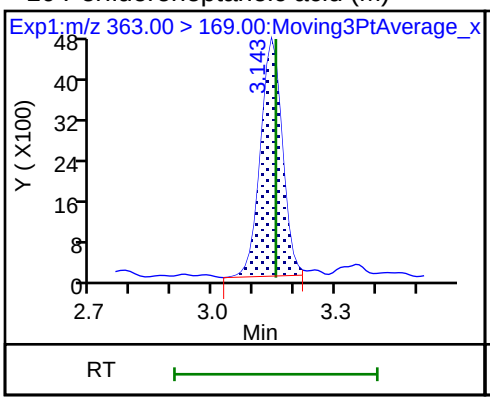
D 9 13C4 PFHpA



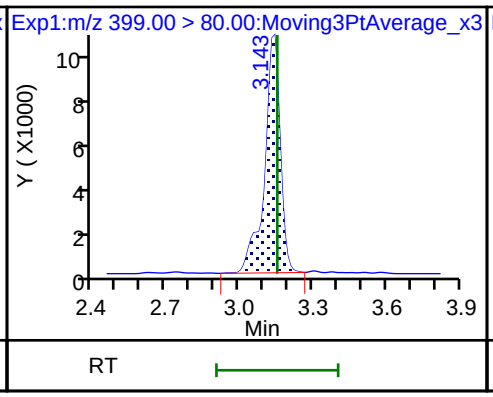
10 Perfluoroheptanoic acid



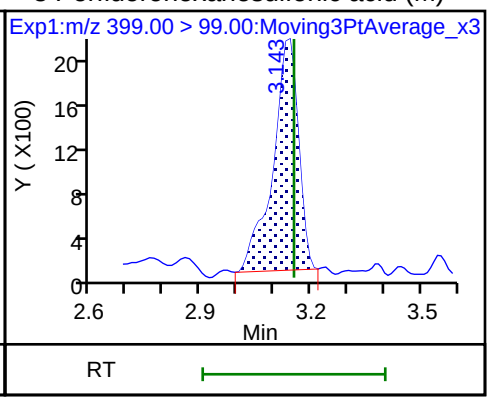
10 Perfluoroheptanoic acid (M)



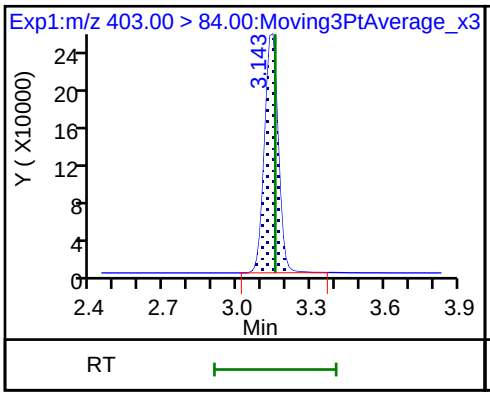
8 Perfluorohexanesulfonic acid



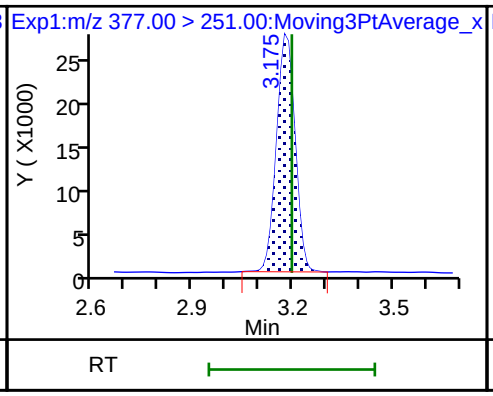
8 Perfluorohexanesulfonic acid (M)



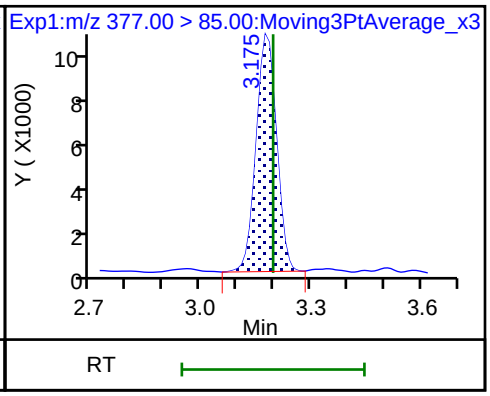
D 11 18O2 PFHxS



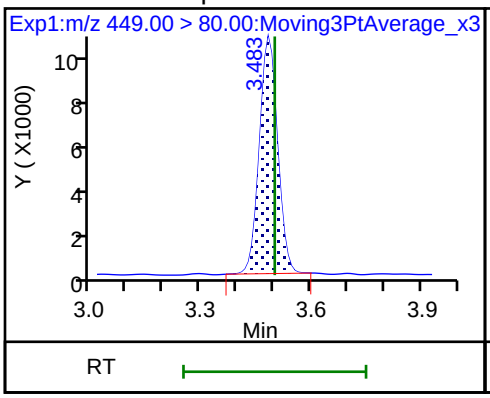
77 DONA



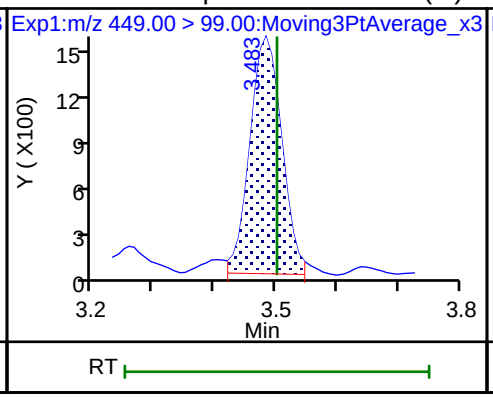
77 DONA



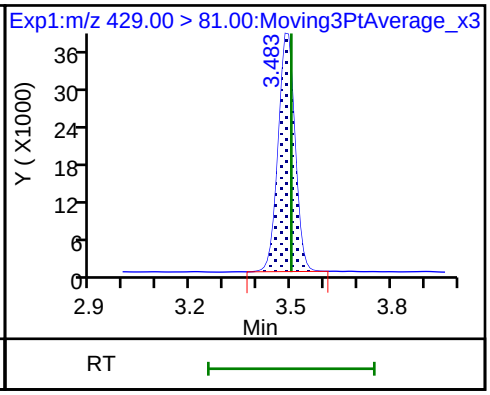
16 Perfluoroheptanesulfonic acid



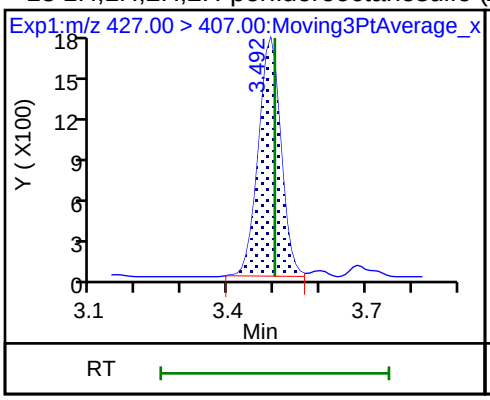
16 Perfluoroheptanesulfonic acid (M)



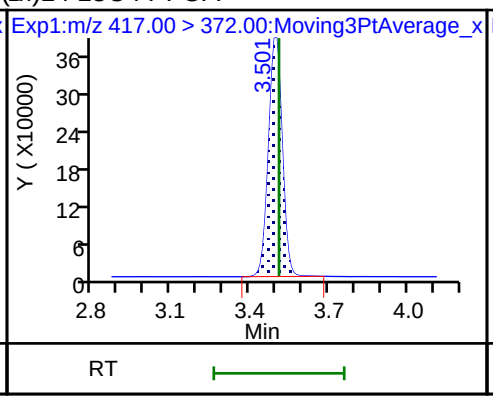
D 12 M2-6:2 FTS



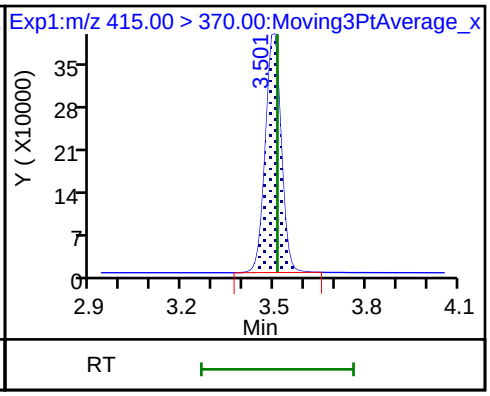
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



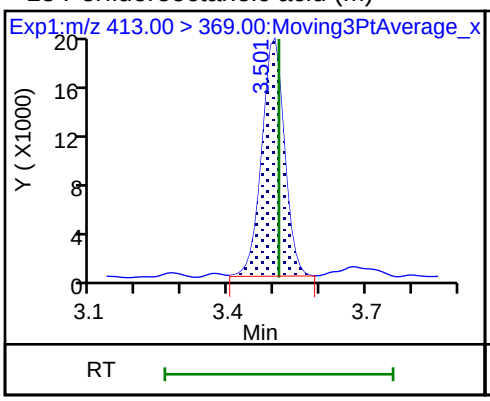
D 14 13C4 PFOA



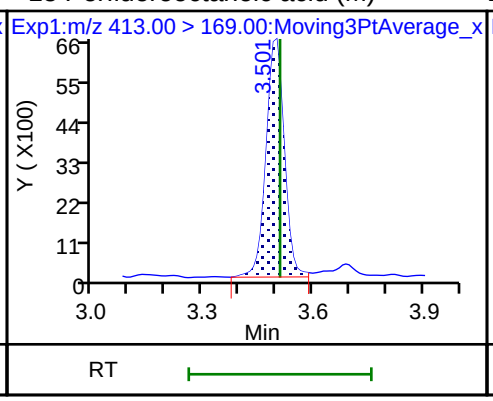
* 62 13C2 PFOA



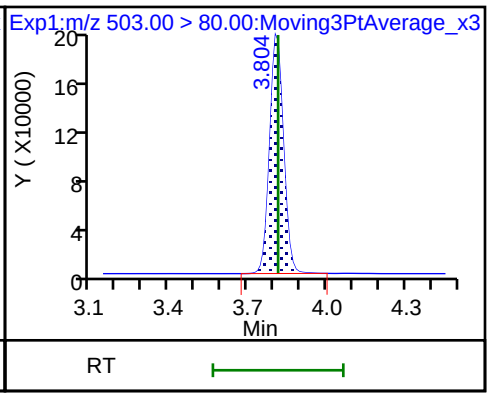
15 Perfluorooctanoic acid (M)



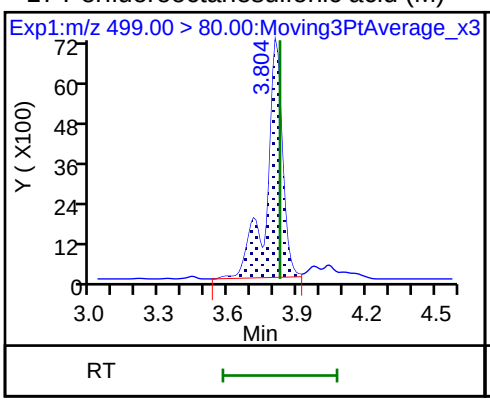
15 Perfluorooctanoic acid (M)



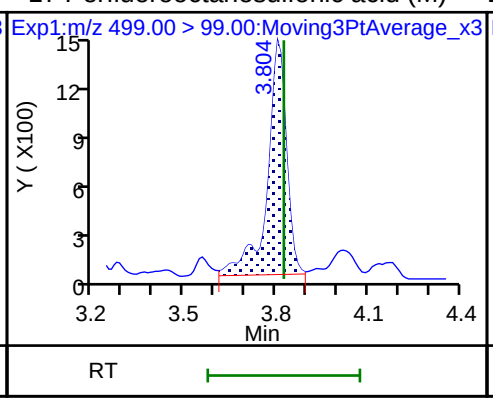
D 18 13C4 PFOS



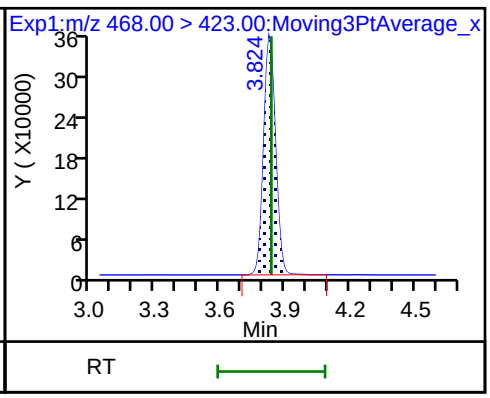
17 Perfluorooctanesulfonic acid (M)



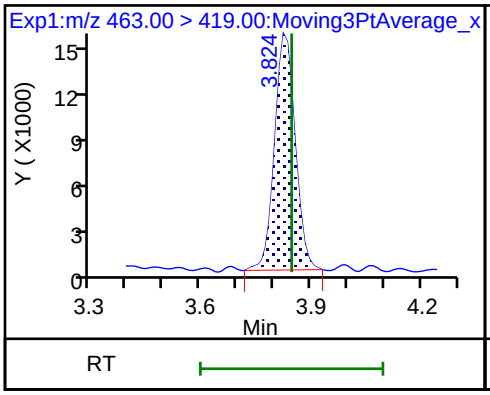
17 Perfluorooctanesulfonic acid (M)



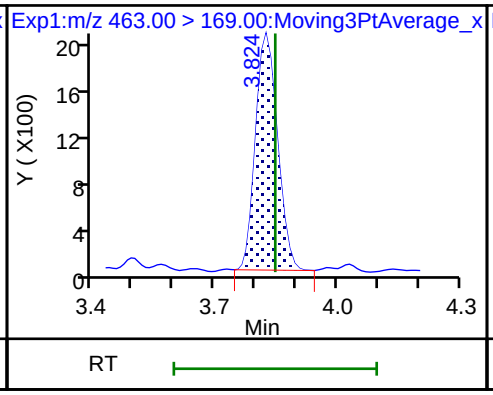
D 19 13C5 PFNA



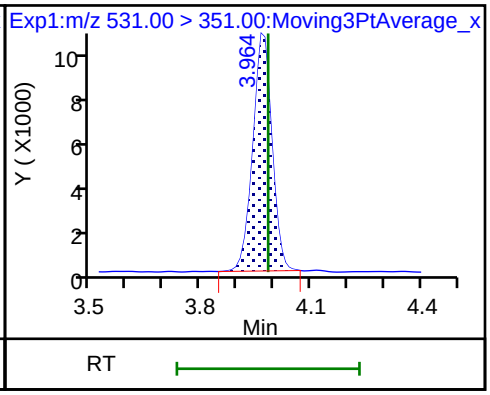
20 Perfluorononanoic acid



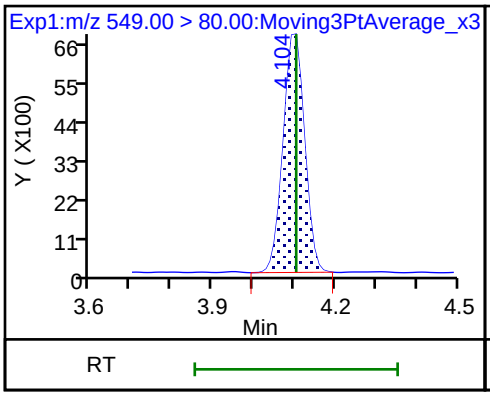
20 Perfluorononanoic acid



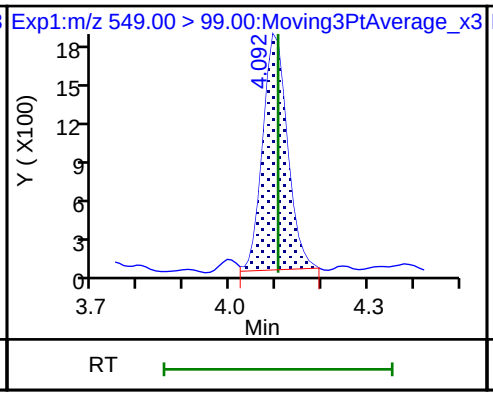
69 9-Chlorohexadecafluoro-3-oxanona



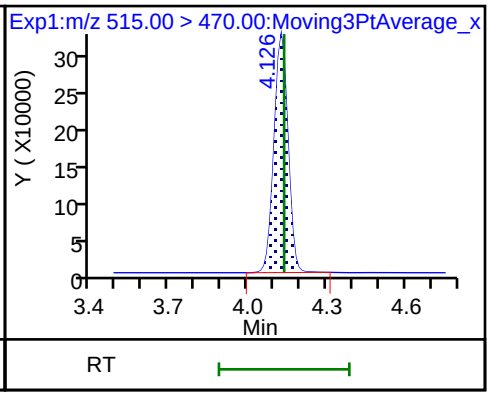
68 Perfluorononanesulfonic acid



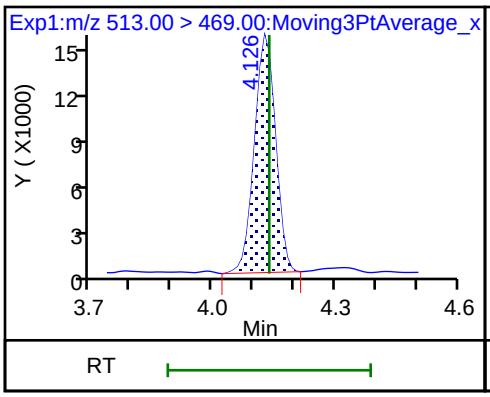
68 Perfluorononanesulfonic acid



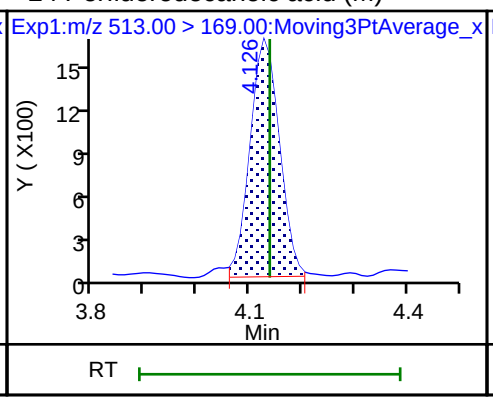
D 23 13C2 PFDA



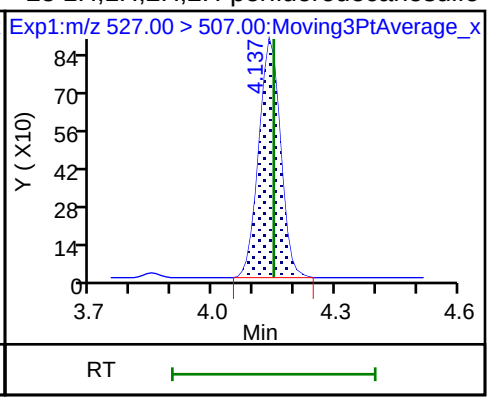
24 Perfluorodecanoic acid



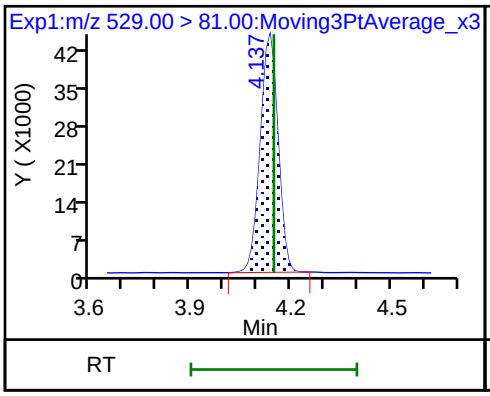
24 Perfluorodecanoic acid (M)



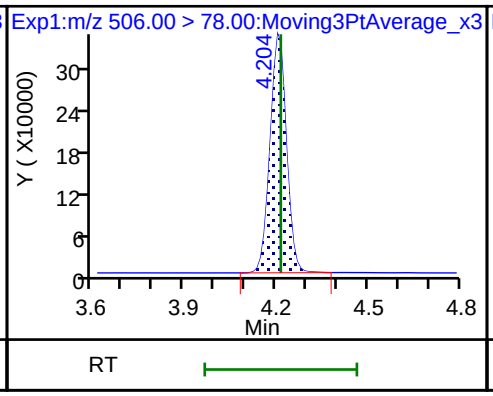
25 1H,1H,2H,2H-perfluorodecanesulfo



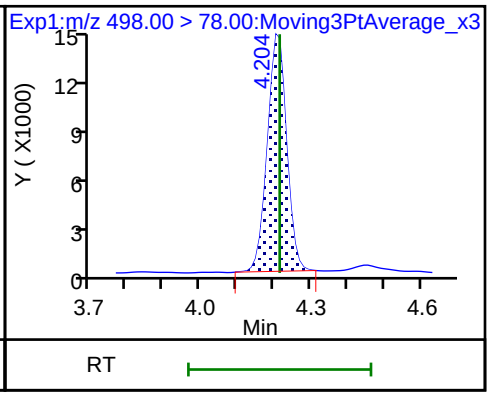
D 26 M2-8:2 FTS



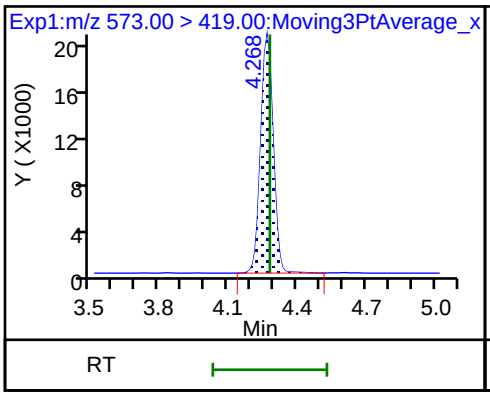
D 21 13C8 FOSA



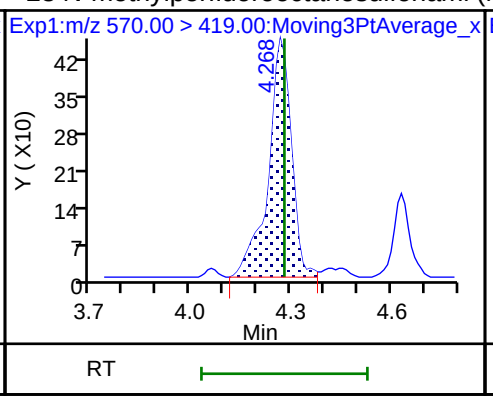
22 Perfluorooctanesulfonamide



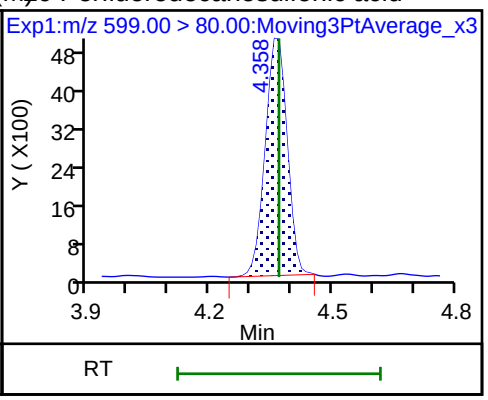
D 27 d3-NMeFOSAA



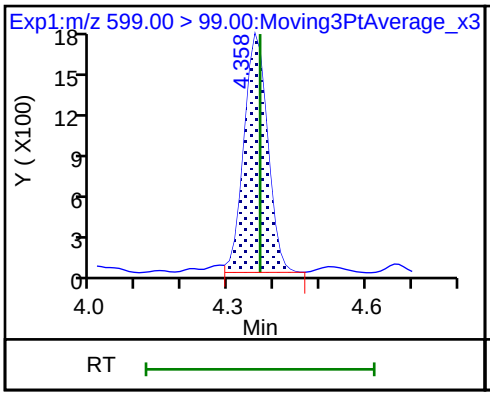
28 N-methylperfluorooctanesulfonami (M)



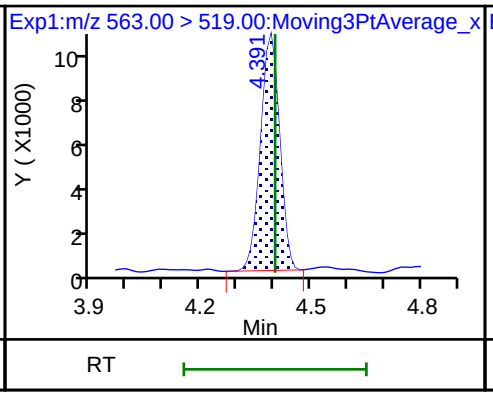
29 Perfluorodecanesulfonic acid



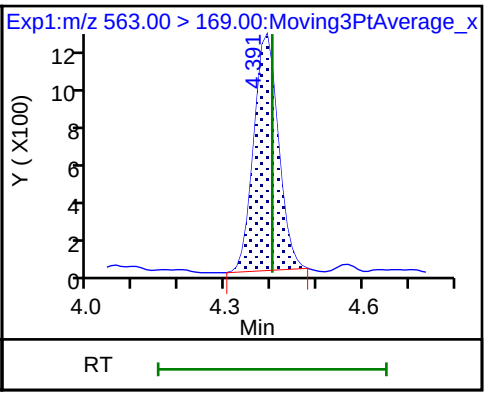
29 Perfluorodecanesulfonic acid



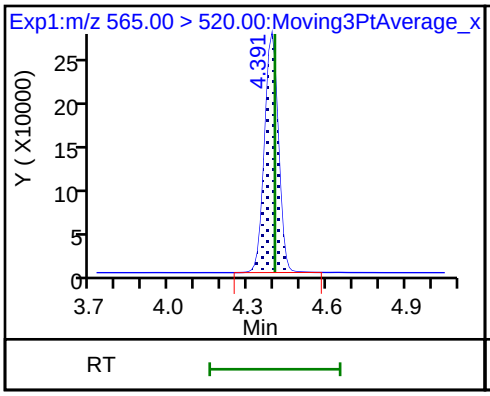
31 Perfluoroundecanoic acid



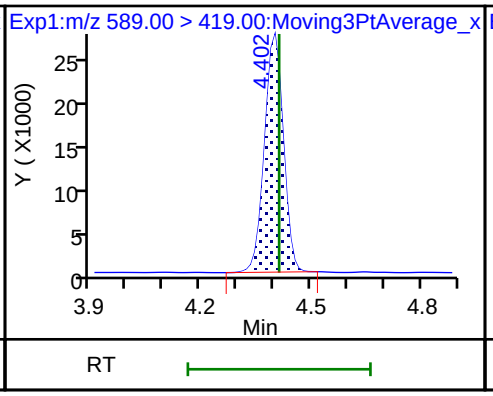
31 Perfluoroundecanoic acid



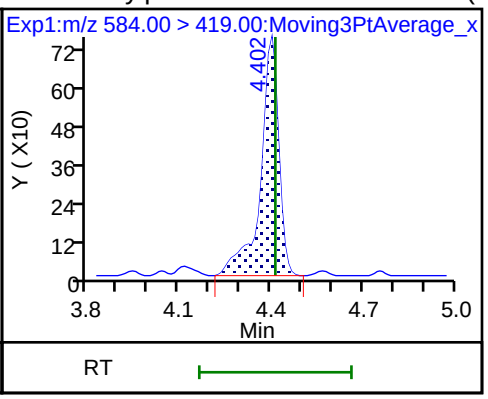
D 30 13C2 PFUnA



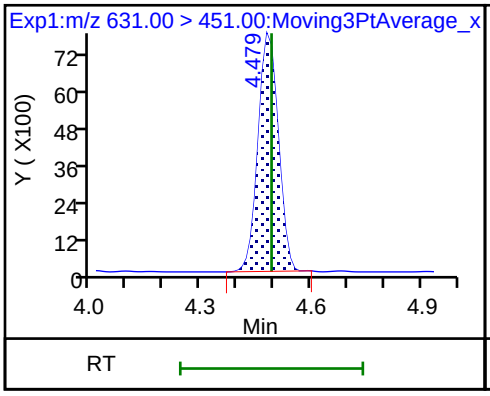
D 32 d5-NEtFOSAA



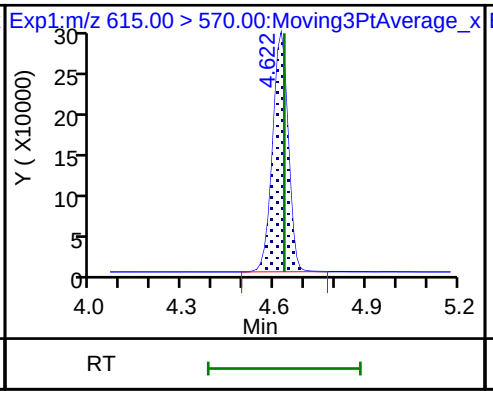
33 N-ethylperfluorooctanesulfonamid (M)



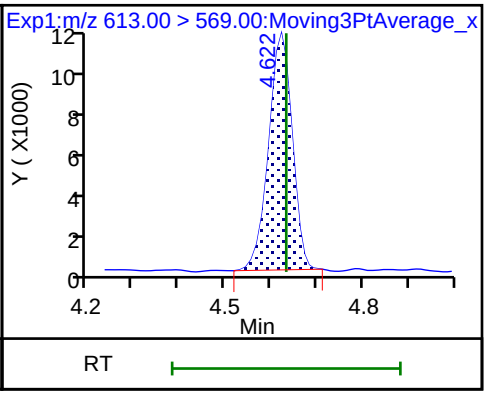
66 11-Chloroeicosafluoro-3-oxaundec



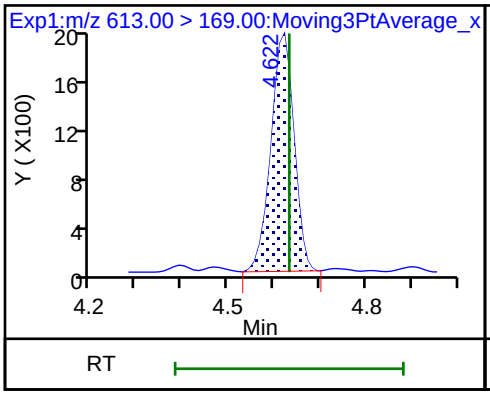
D 36 13C2 PFDoA



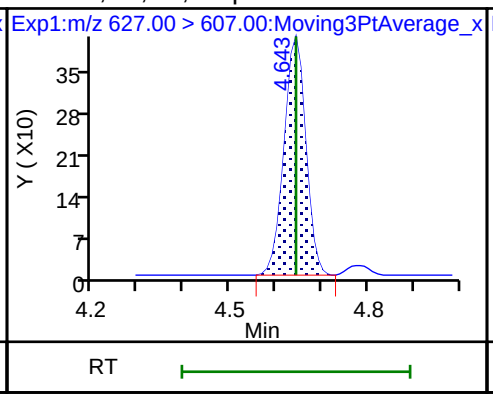
37 Perfluorododecanoic acid



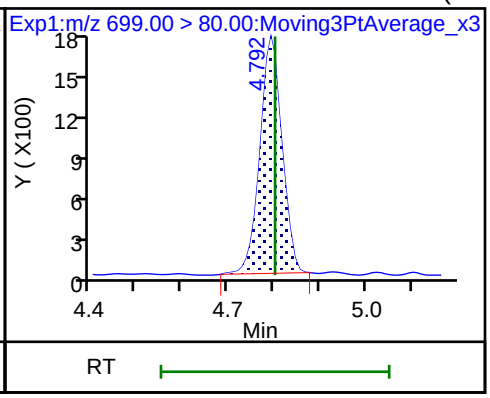
37 Perfluorododecanoic acid



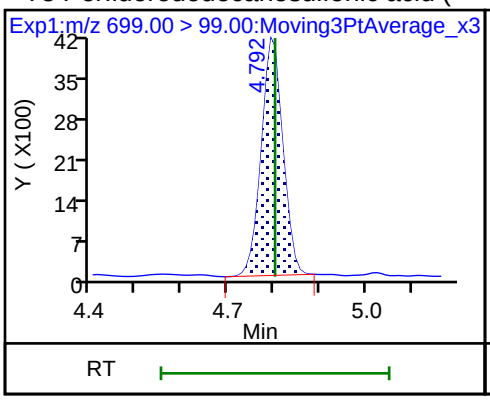
74 1H,1H,2H,2H-perfluorododecanesul



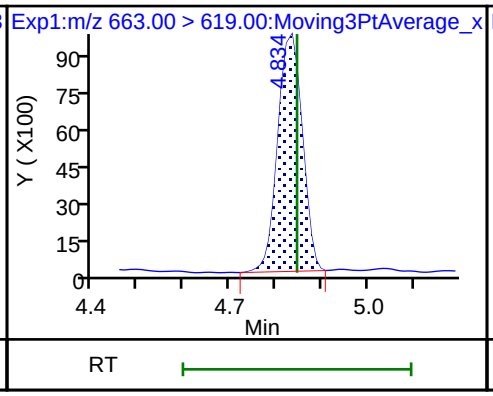
75 Perfluorododecanesulfonic acid (



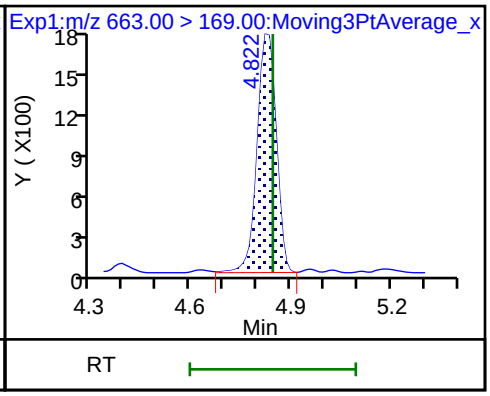
75 Perfluorododecanesulfonic acid (



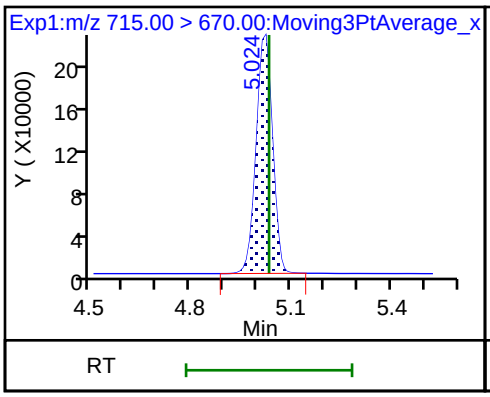
41 Perfluorotridecanoic acid



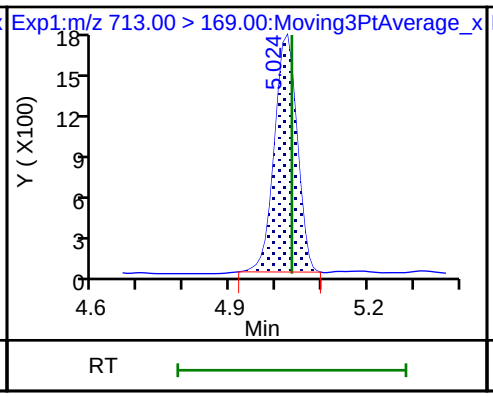
41 Perfluorotridecanoic acid



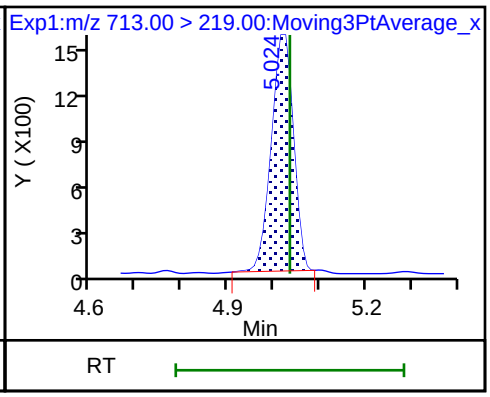
D 43 13C2 PFTeDA



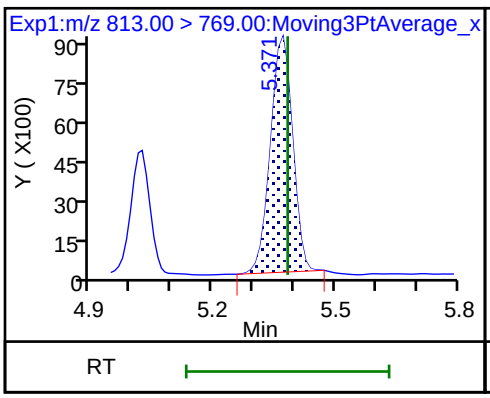
42 Perfluorotetradecanoic acid



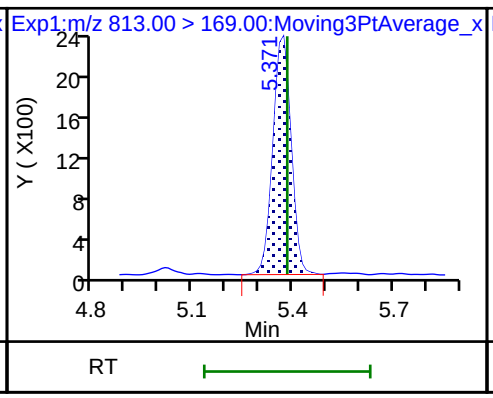
42 Perfluorotetradecanoic acid



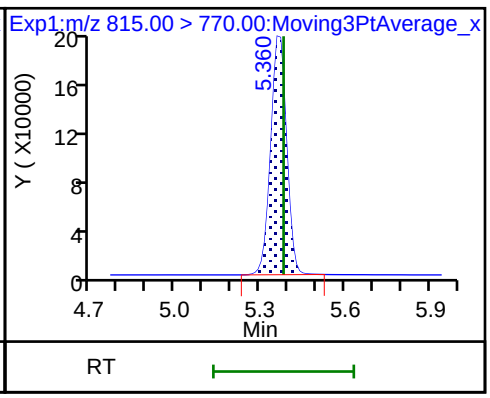
45 Perfluorohexadecanoic acid



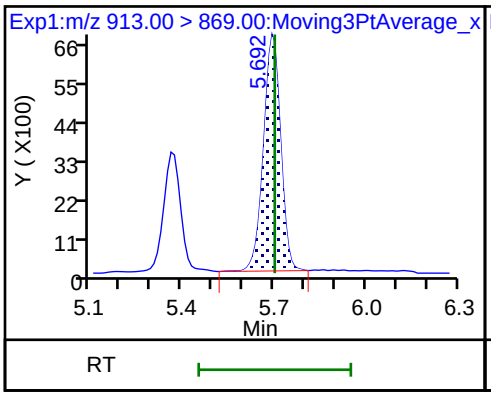
45 Perfluorohexadecanoic acid



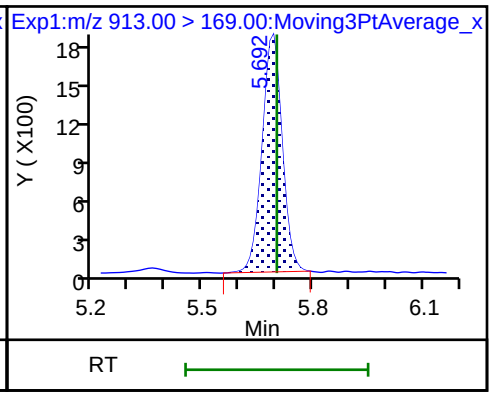
D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

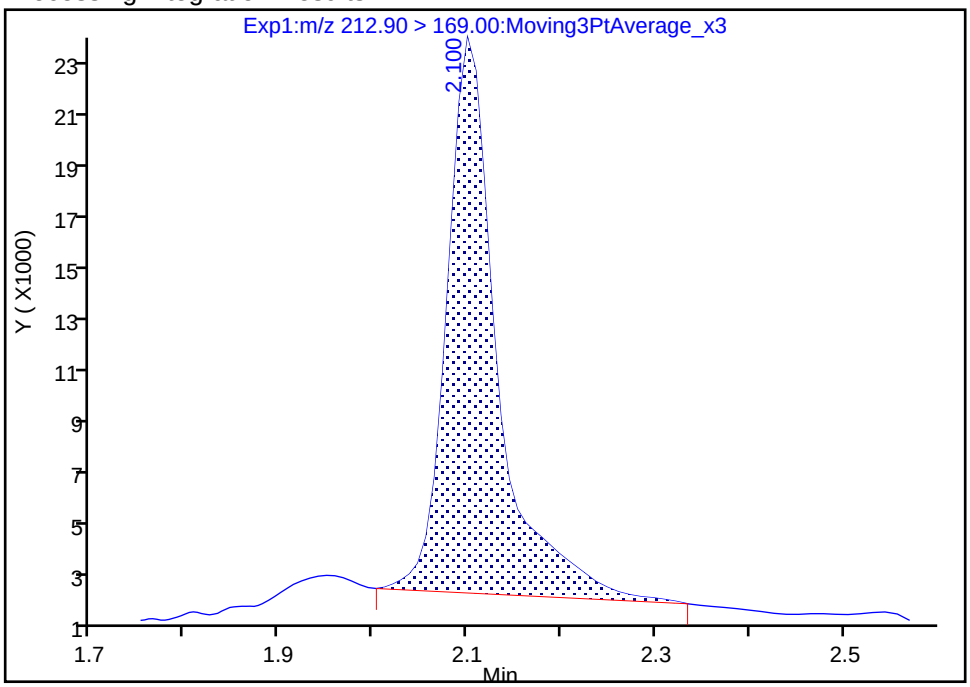
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Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

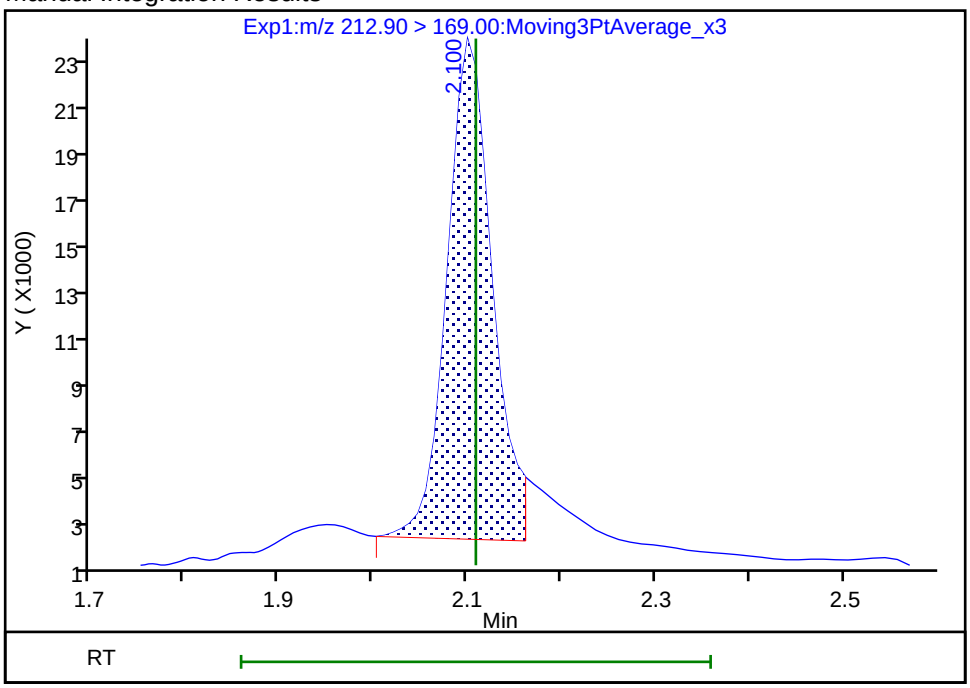
Processing Integration Results

RT: 2.10
Area: 78499
Amount: 0.056652
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 69257
Amount: 0.054419
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:57:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

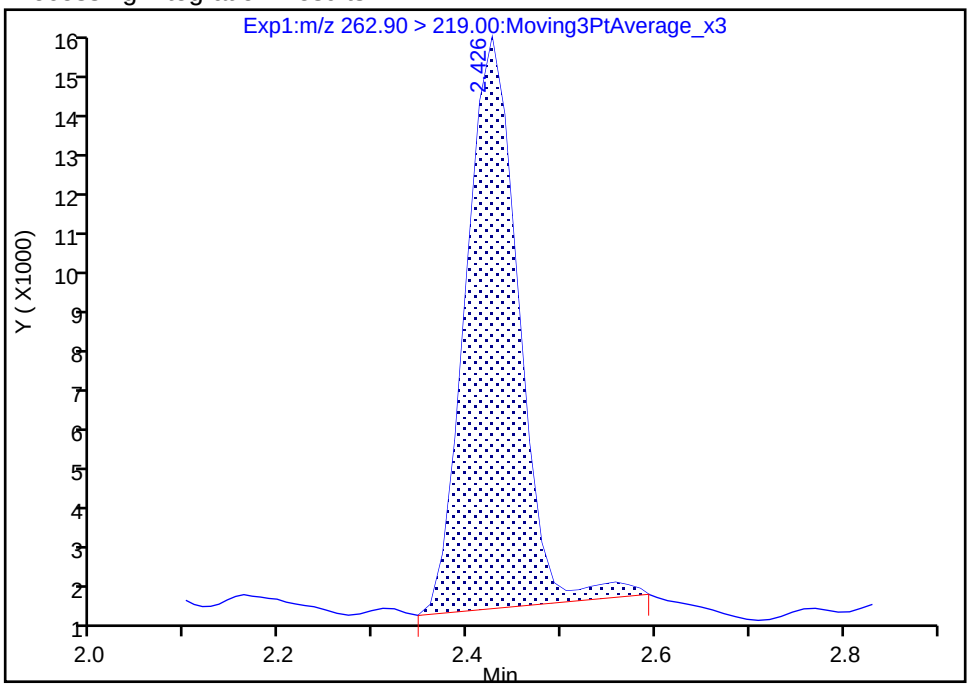
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Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

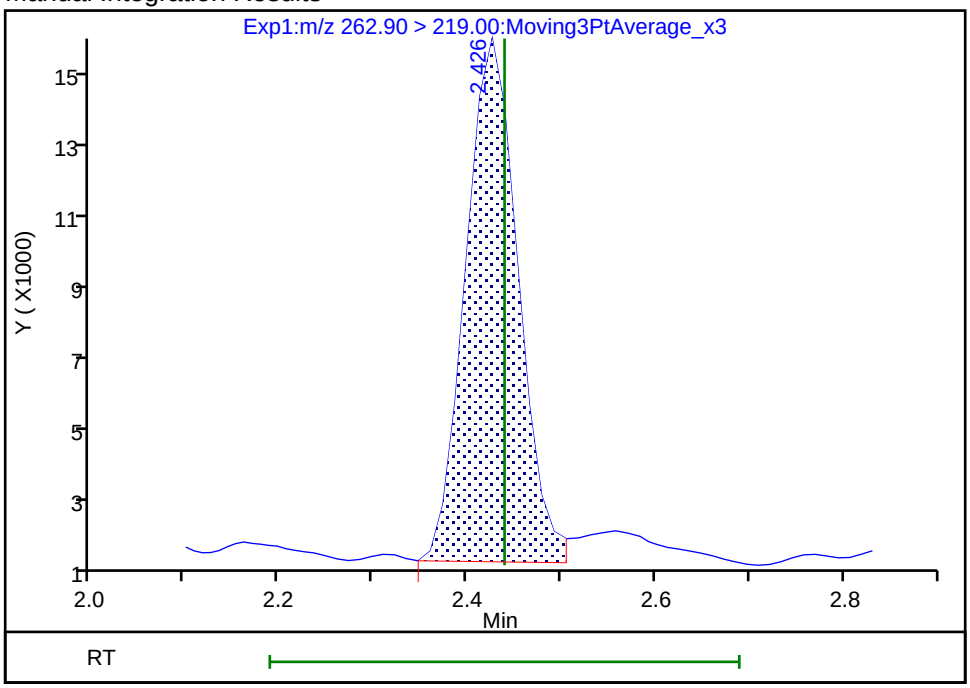
Processing Integration Results

RT: 2.43
Area: 54009
Amount: 0.052351
Amount Units: ng/ml



Manual Integration Results

RT: 2.43
Area: 54383
Amount: 0.054447
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:58:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

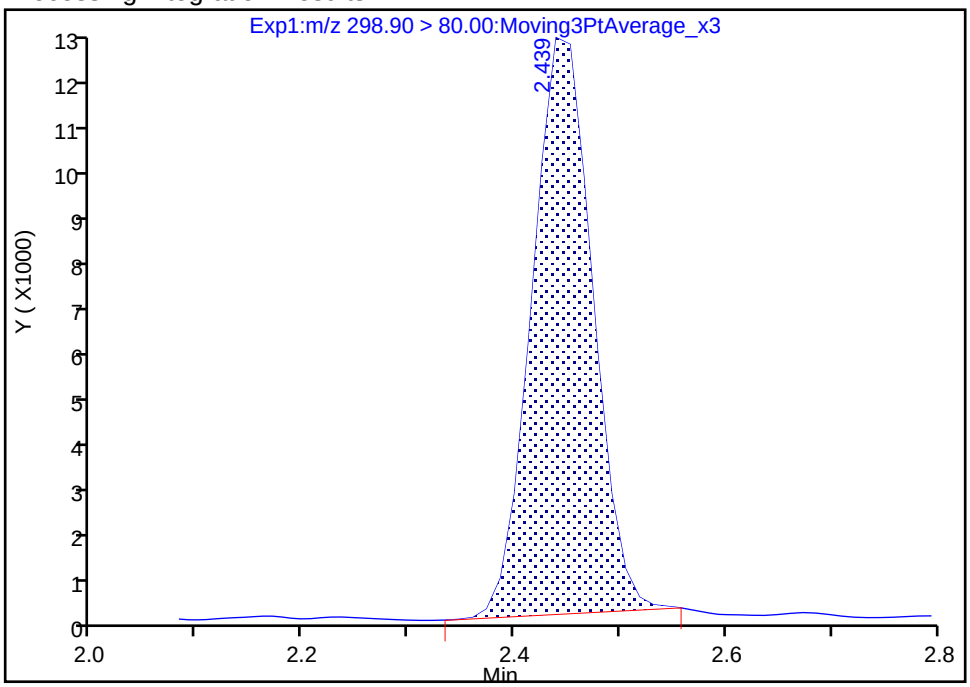
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d
Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

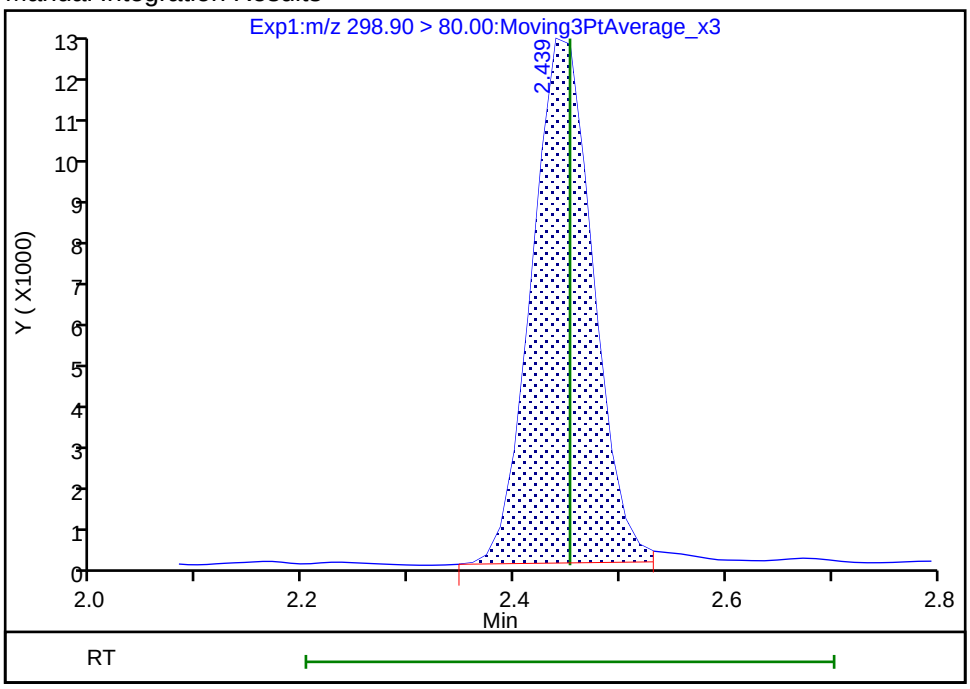
Processing Integration Results

RT: 2.44
Area: 50089
Amount: 0.045065
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 50839
Amount: 0.047035
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:58:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

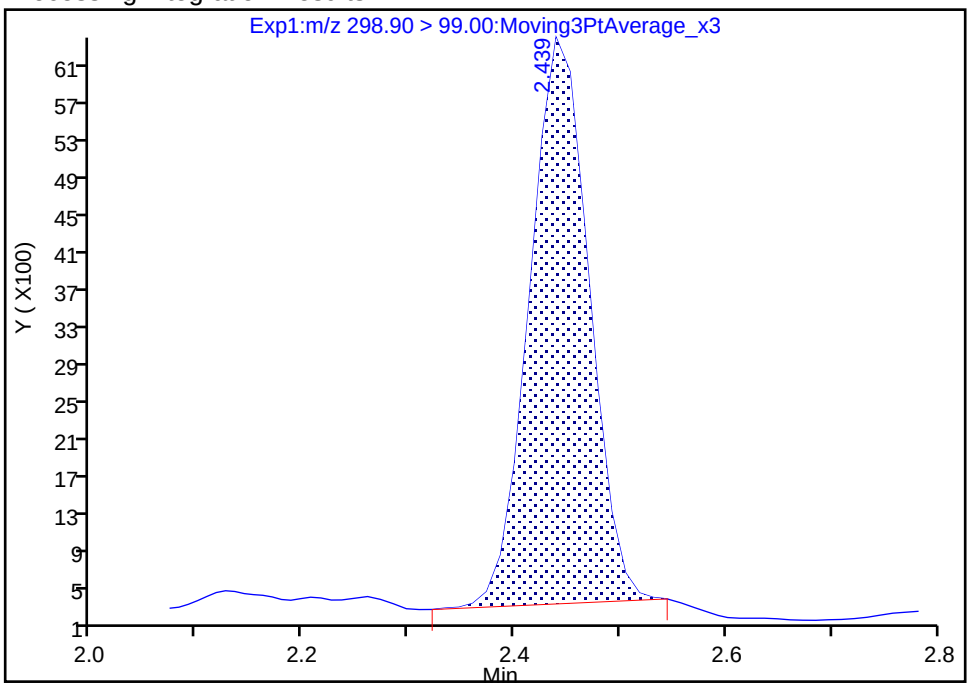
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Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

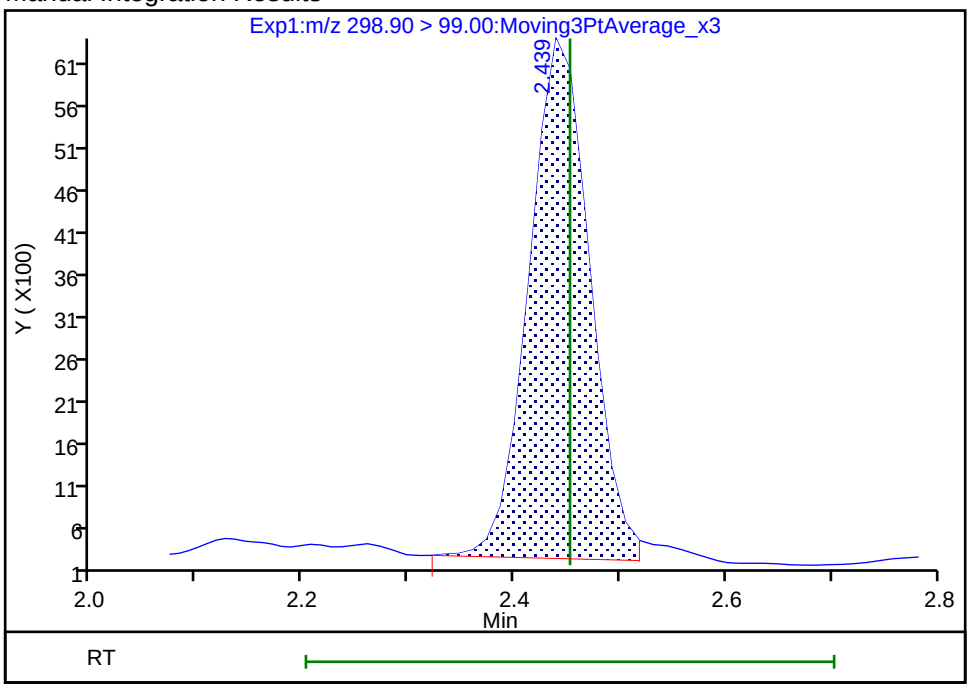
Processing Integration Results

RT: 2.44
Area: 23248
Amount: 0.045065
Amount Units: ng/ml



Manual Integration Results

RT: 2.44
Area: 24123
Amount: 0.047035
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:58:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

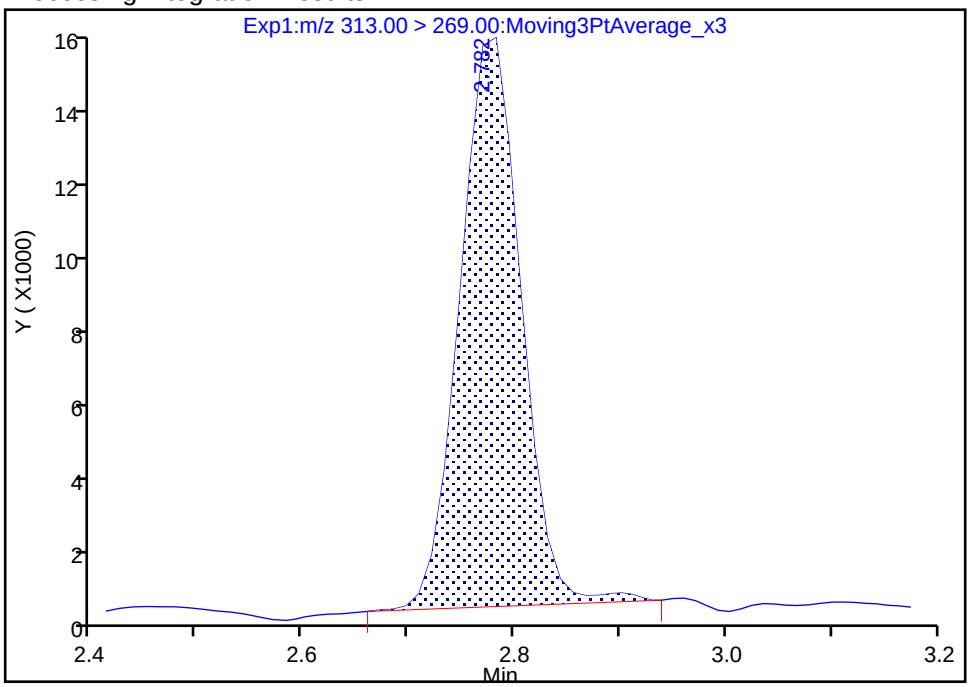
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d
Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

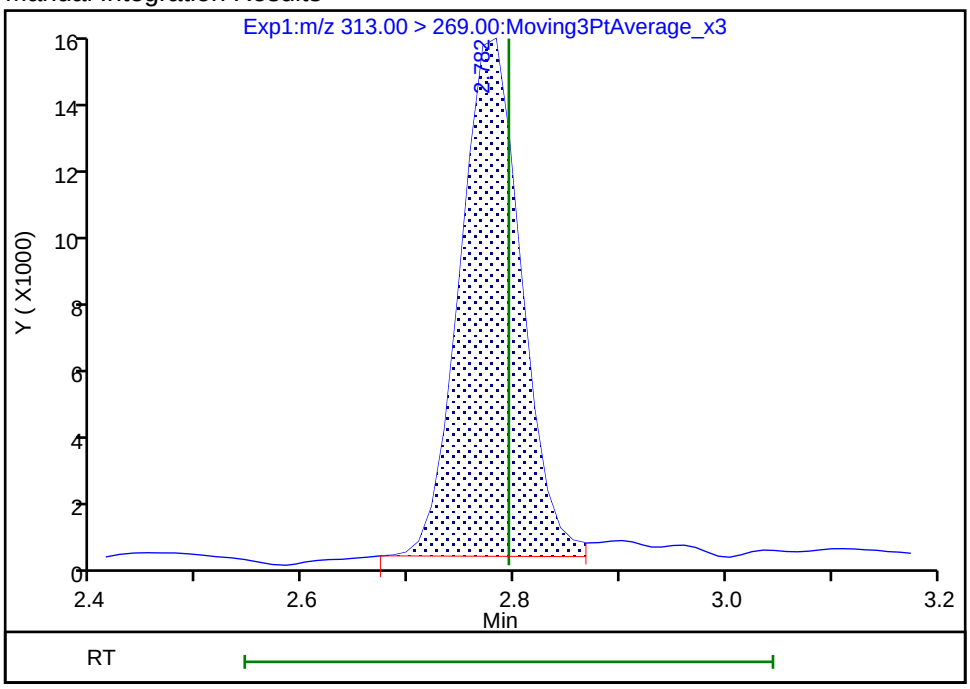
Processing Integration Results

RT: 2.78
Area: 56261
Amount: 0.049111
Amount Units: ng/ml



Manual Integration Results

RT: 2.78
Area: 56624
Amount: 0.050133
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:58:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

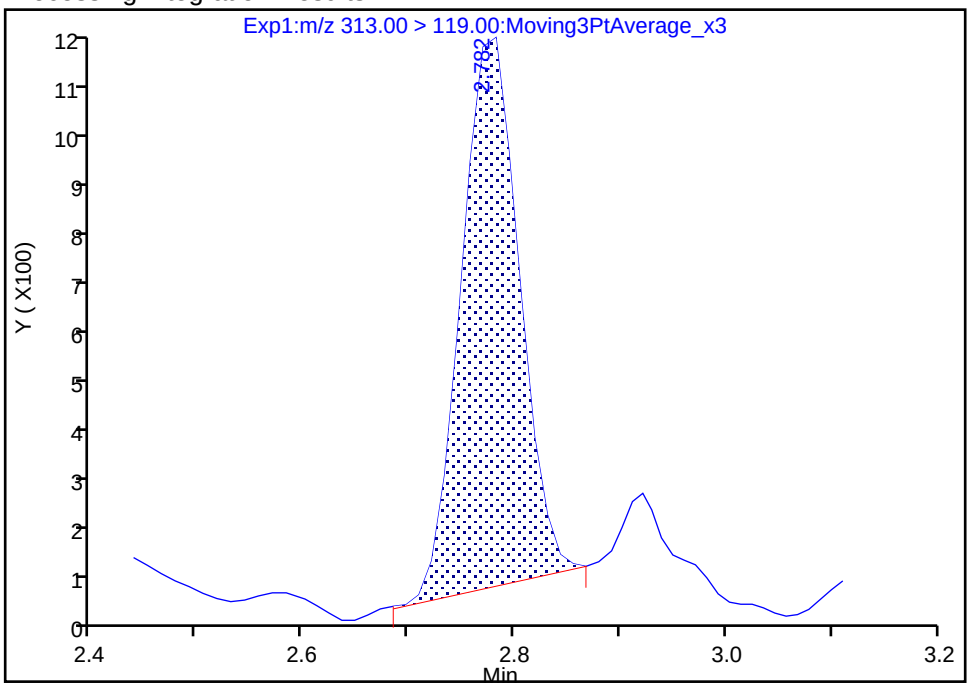
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Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

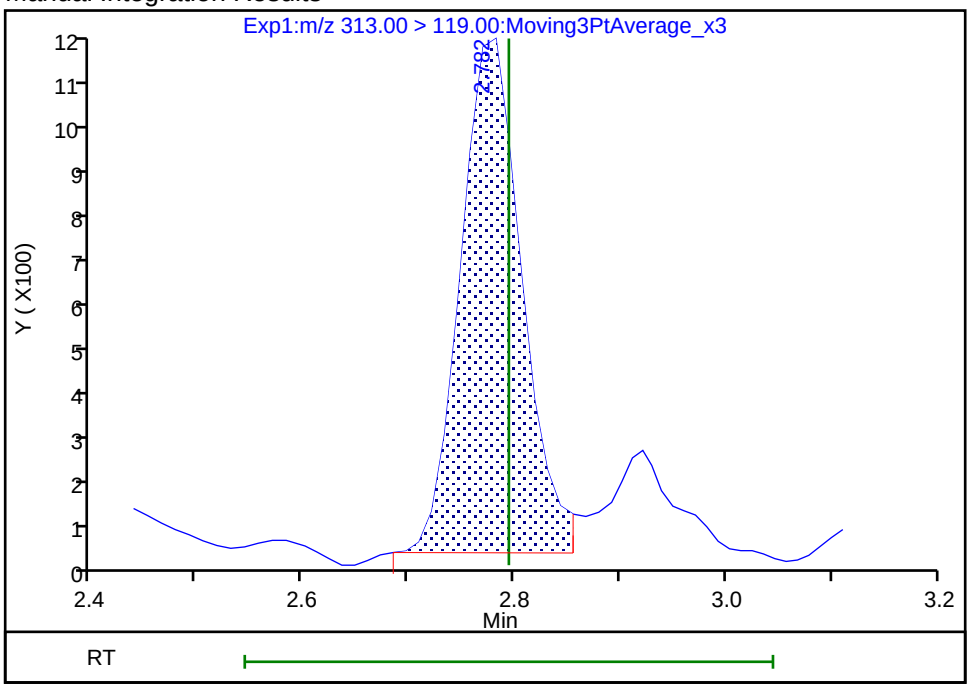
Processing Integration Results

RT: 2.78
Area: 4069
Amount: 0.049111
Amount Units: ng/ml



Manual Integration Results

RT: 2.78
Area: 4410
Amount: 0.050133
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:59:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

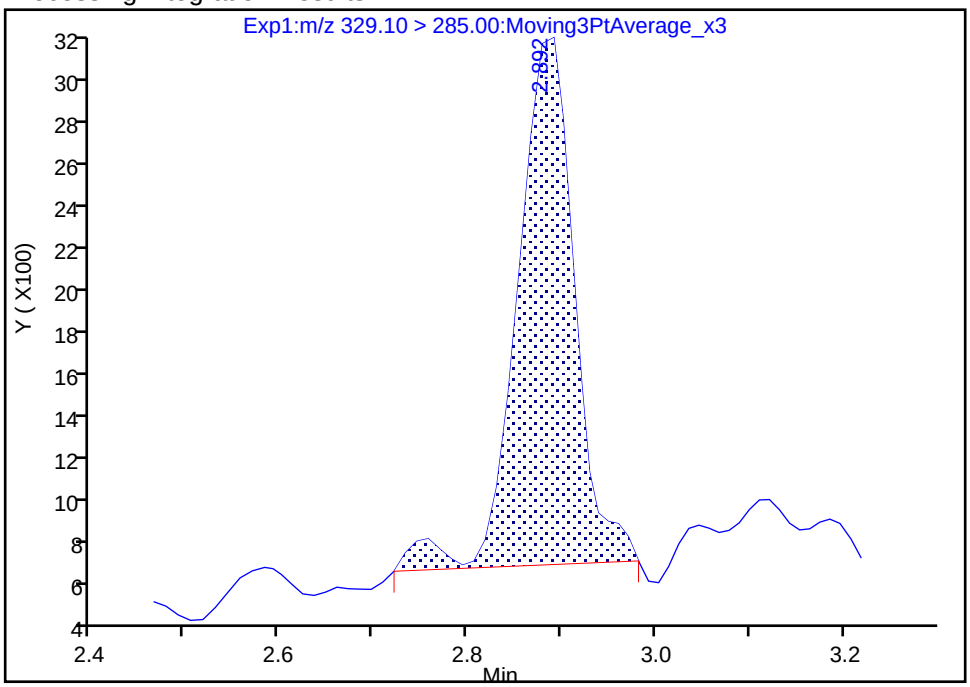
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d
Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

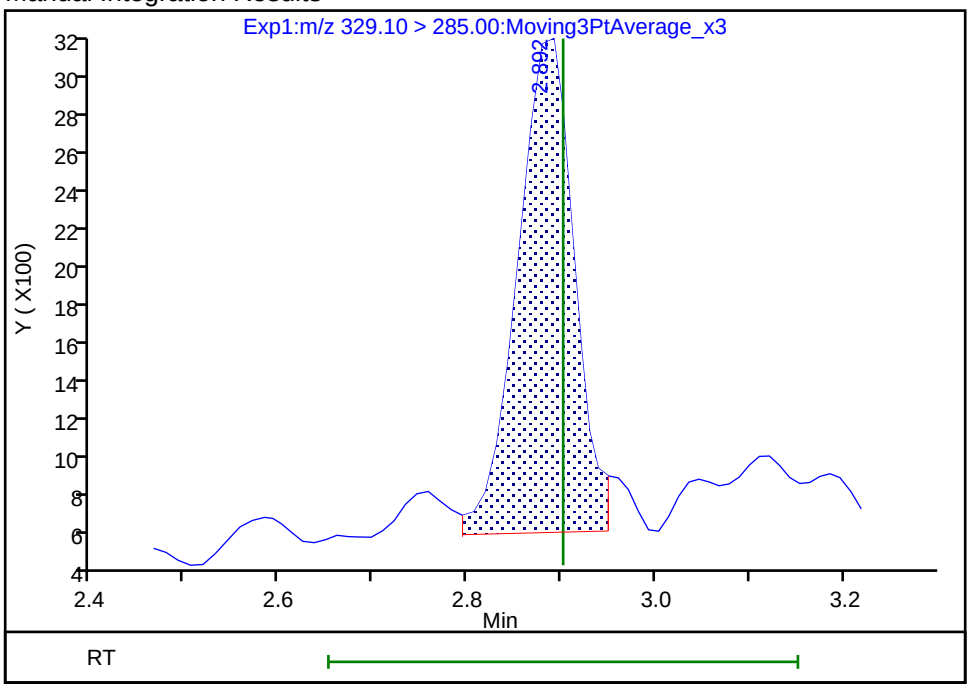
Processing Integration Results

RT: 2.89
Area: 10404
Amount: 0.050022
Amount Units: ng/ml



Manual Integration Results

RT: 2.89
Area: 10616
Amount: 0.052116
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:59:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

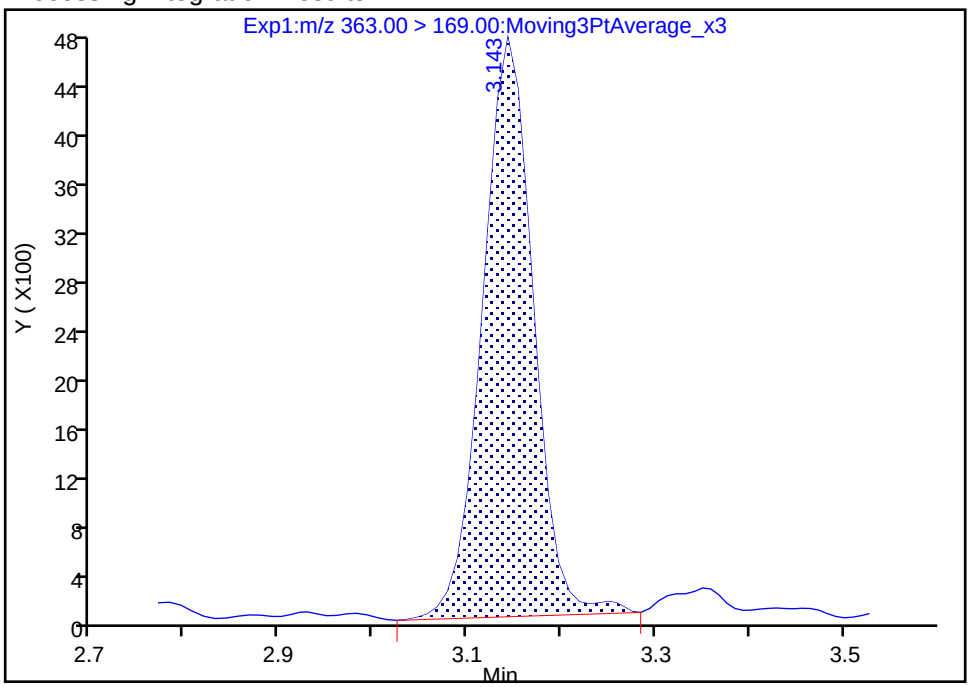
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d				
Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

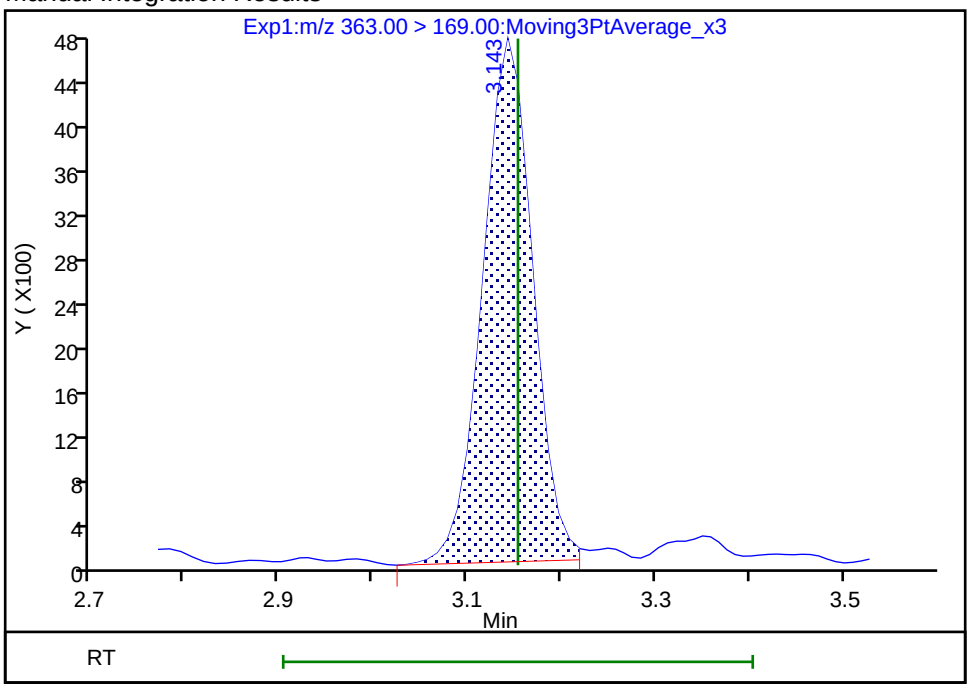
Processing Integration Results

RT: 3.14
Area: 17582
Amount: 0.051184
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 17315
Amount: 0.052265
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:59:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

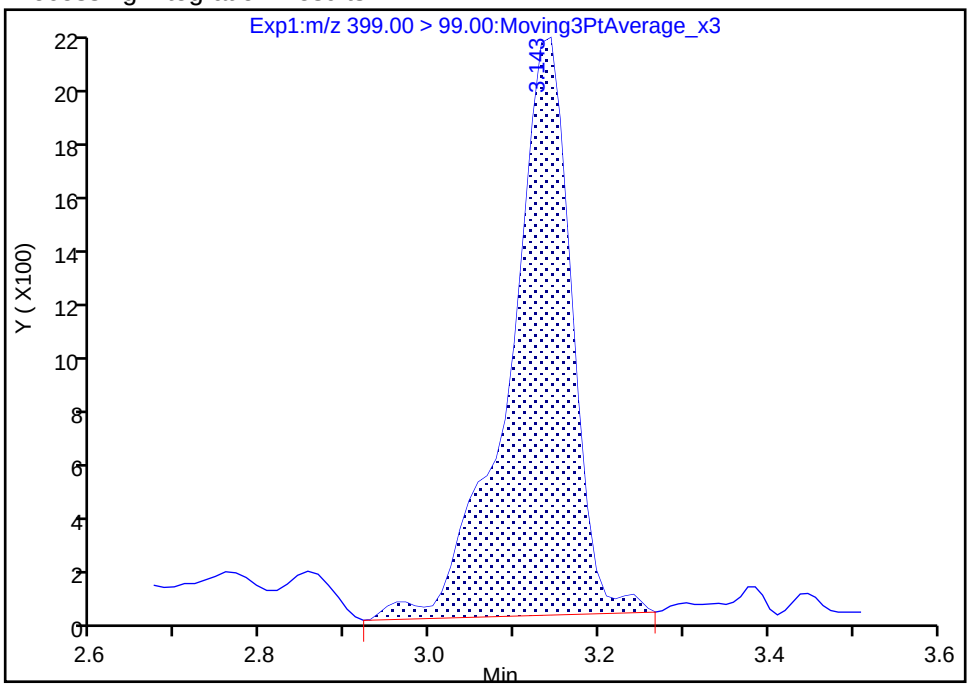
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Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

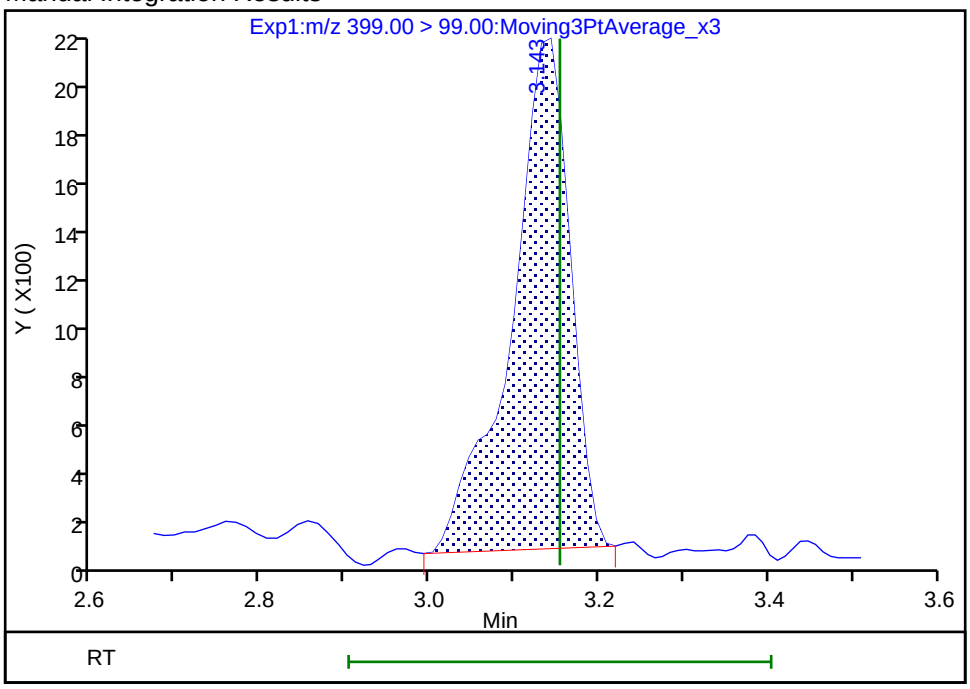
Processing Integration Results

RT: 3.14
Area: 10802
Amount: 0.048928
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 9887
Amount: 0.050109
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:59:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

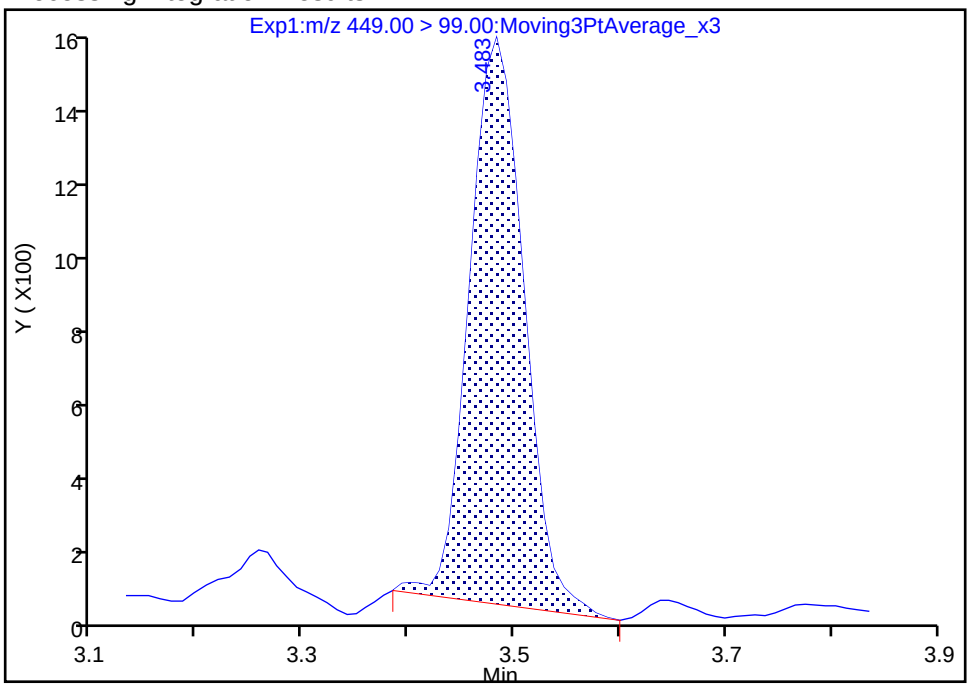
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d				
Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

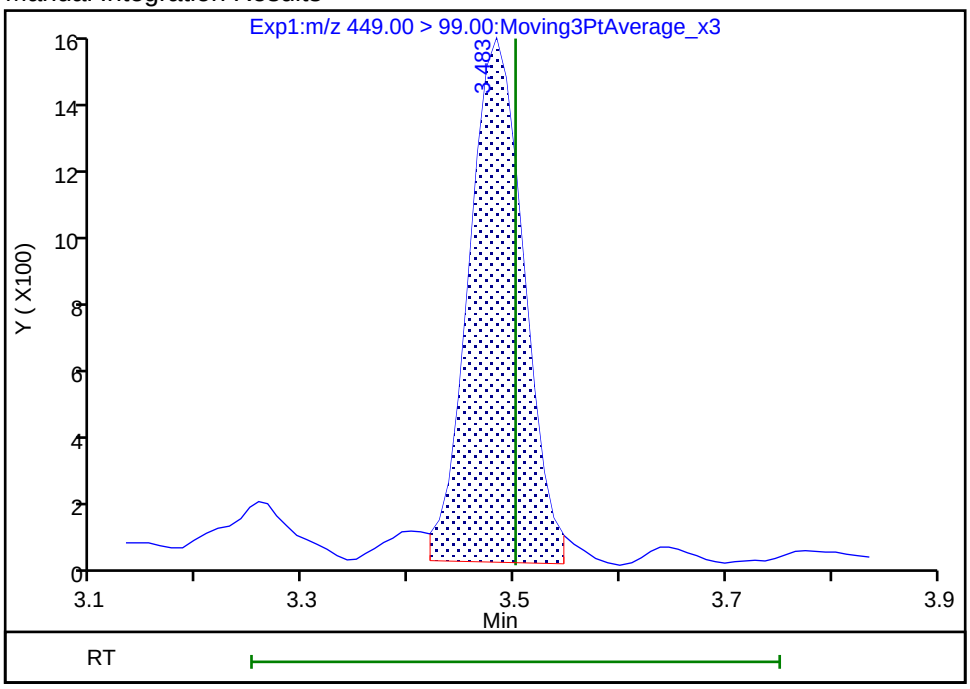
Processing Integration Results

RT: 3.48
Area: 5177
Amount: 0.046999
Amount Units: ng/ml



Manual Integration Results

RT: 3.48
Area: 5307
Amount: 0.048078
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 15:59:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

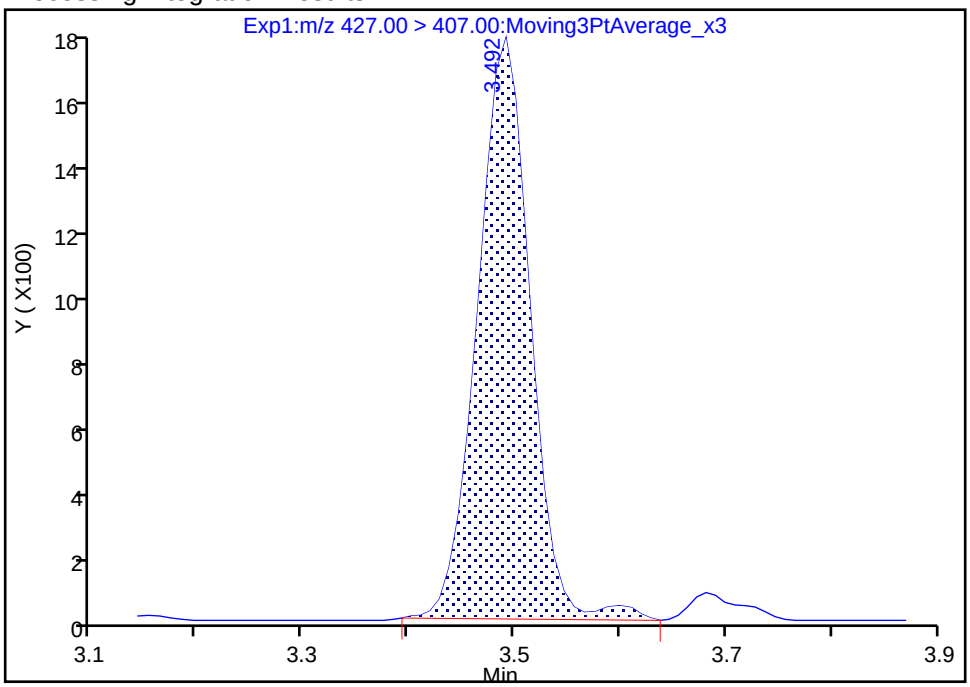
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Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

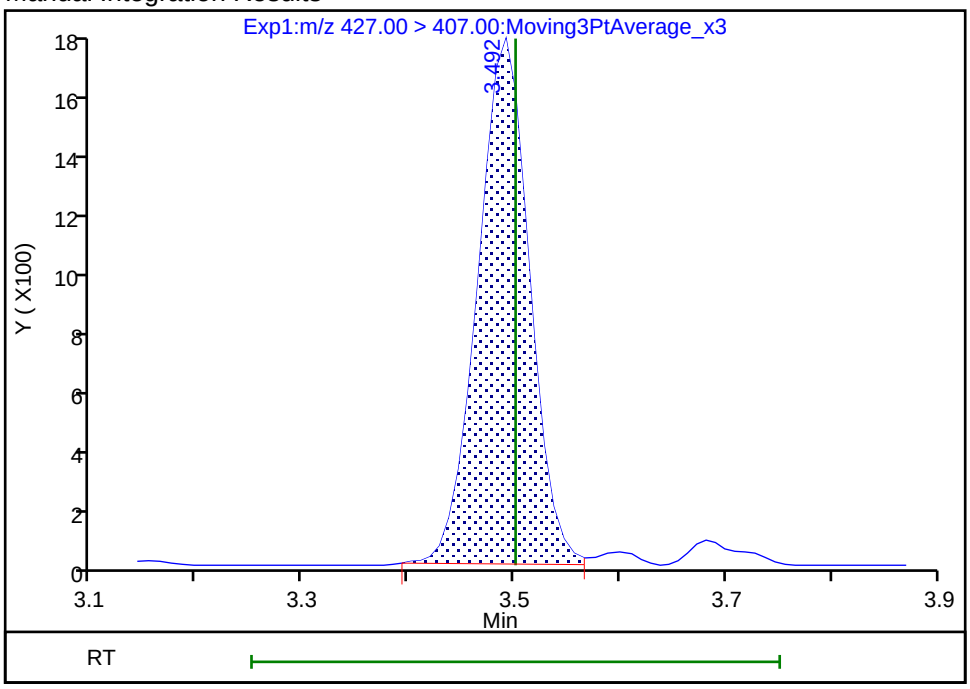
Processing Integration Results

RT: 3.49
Area: 6015
Amount: 0.050746
Amount Units: ng/ml



Manual Integration Results

RT: 3.49
Area: 5900
Amount: 0.051386
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:01:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

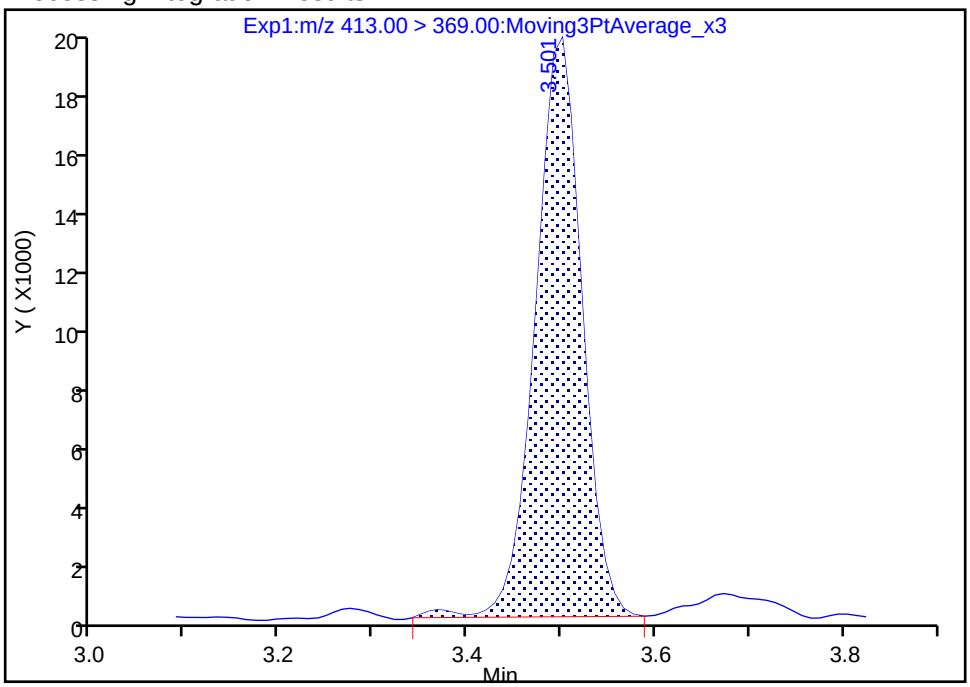
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Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

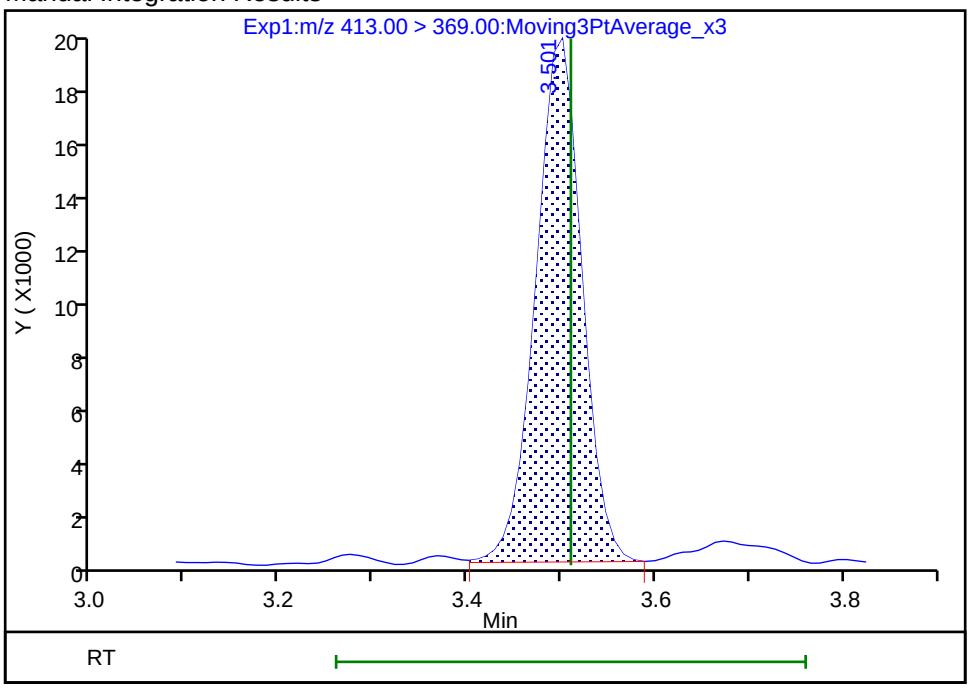
Processing Integration Results

RT: 3.50
Area: 64219
Amount: 0.052372
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 63657
Amount: 0.053986
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:01:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

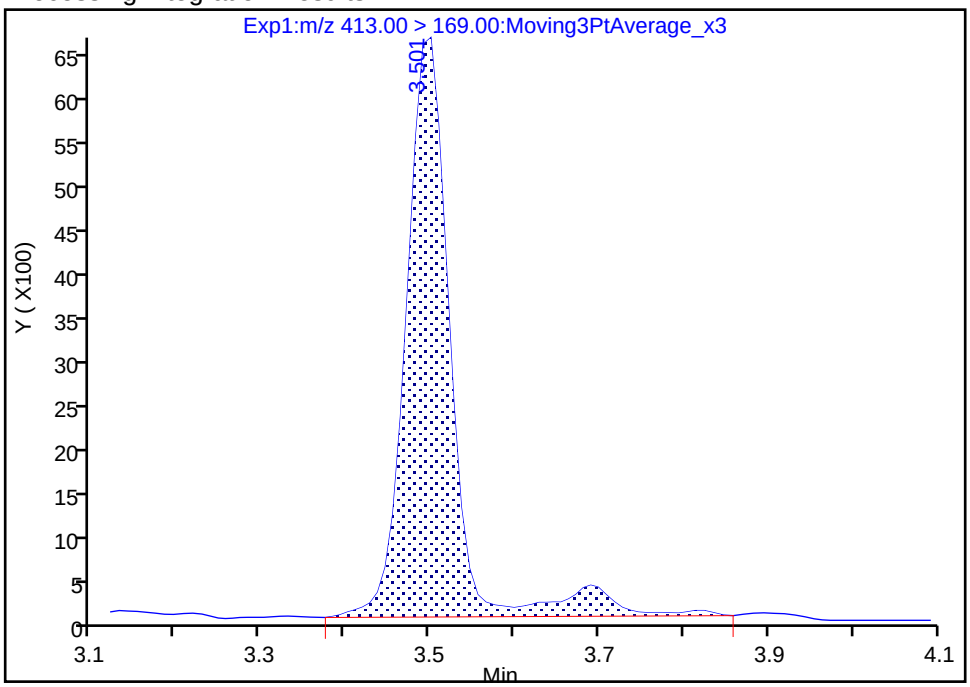
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Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

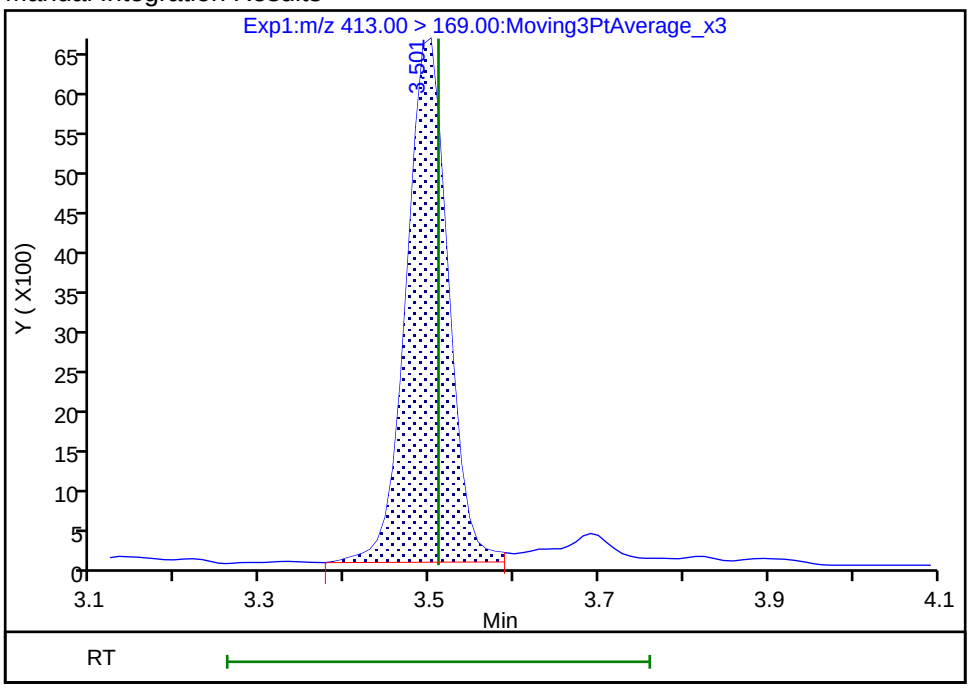
Processing Integration Results

RT: 3.50
Area: 24488
Amount: 0.052372
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 22549
Amount: 0.053986
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:01:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

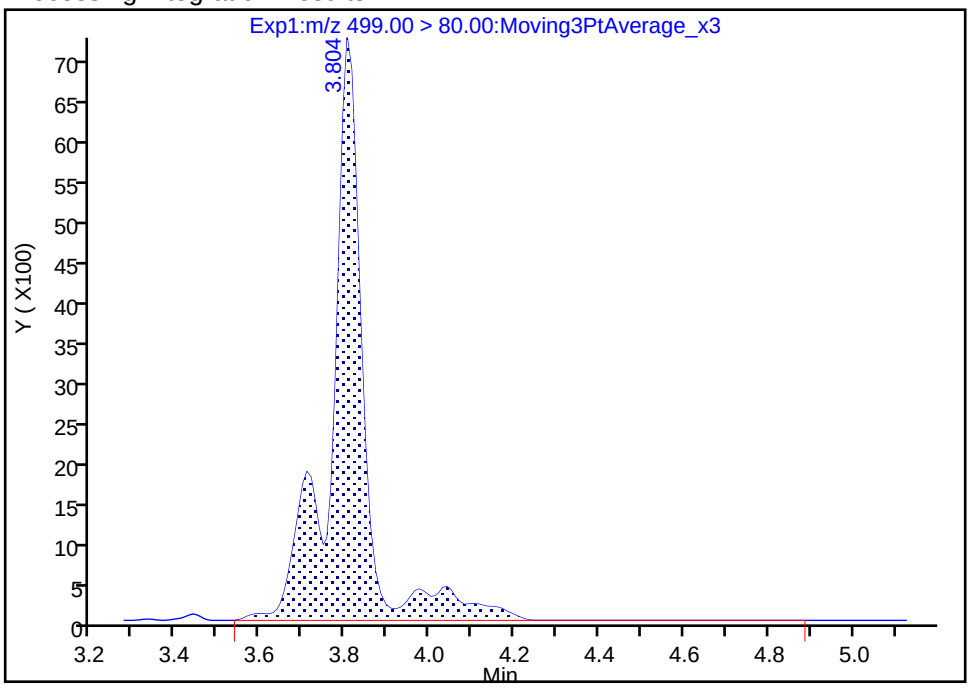
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d
Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

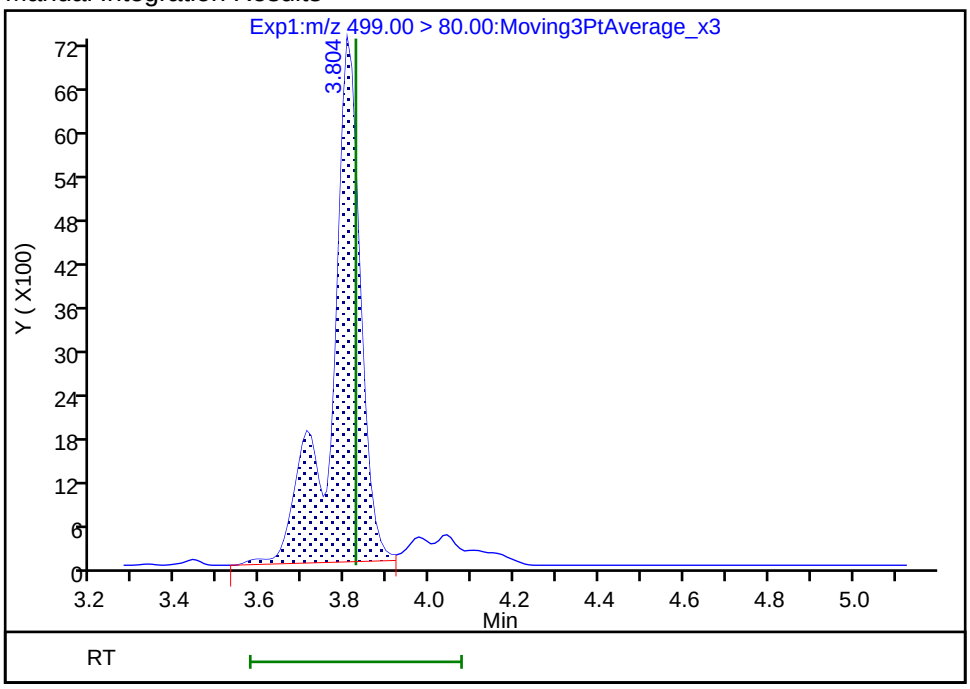
Processing Integration Results

RT: 3.80
Area: 39441
Amount: 0.053377
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 34456
Amount: 0.051556
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:01:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

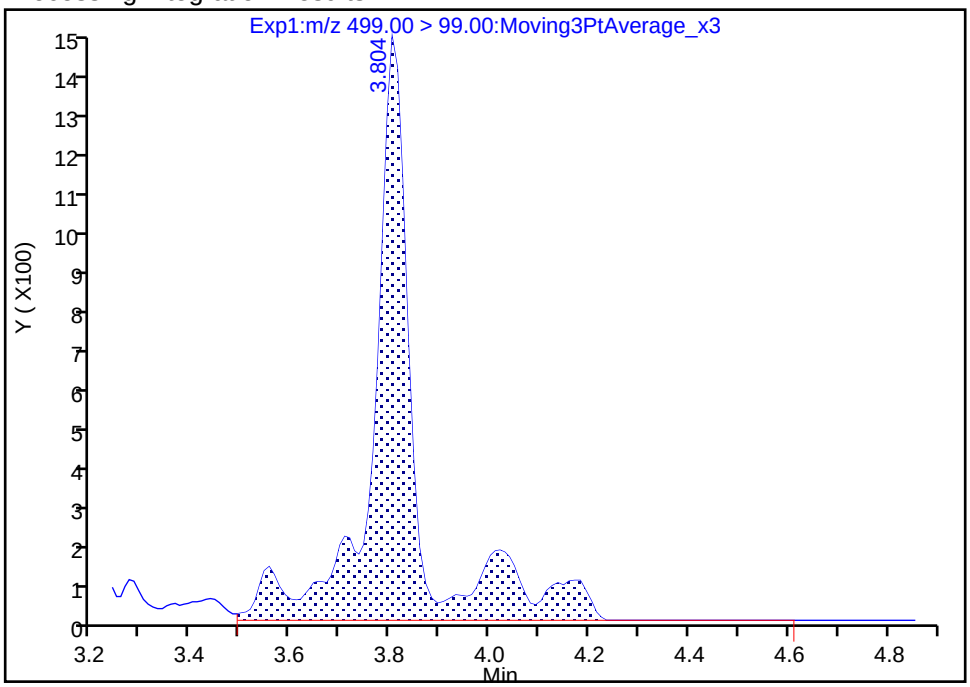
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d				
Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

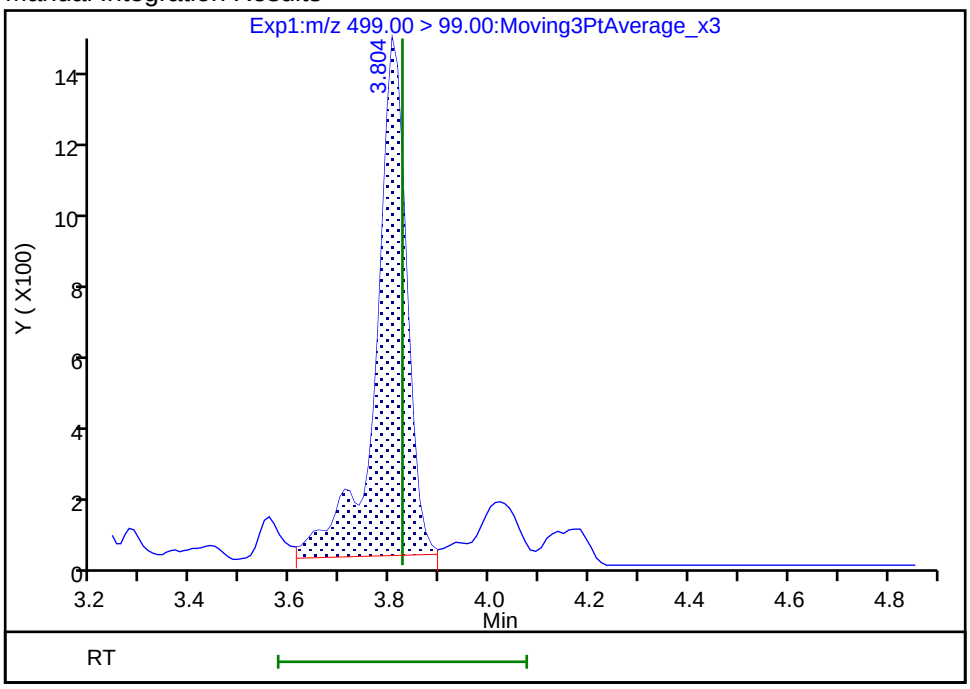
Processing Integration Results

RT: 3.80
Area: 8716
Amount: 0.053377
Amount Units: ng/ml



Manual Integration Results

RT: 3.80
Area: 6114
Amount: 0.051556
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:01:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

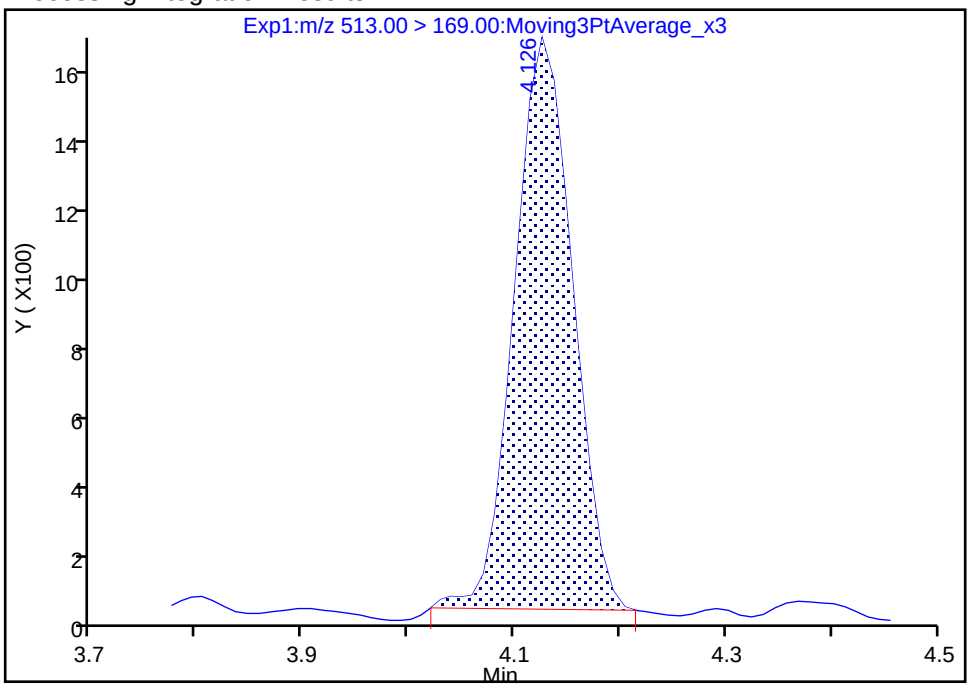
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL02.d				
Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

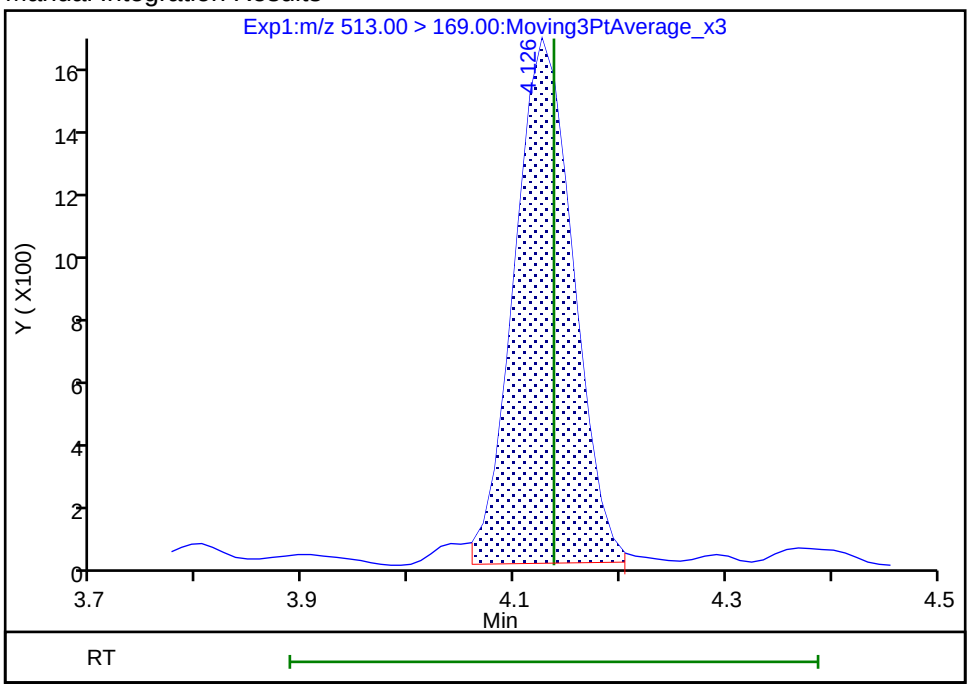
Processing Integration Results

RT: 4.13
Area: 6314
Amount: 0.051330
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 6467
Amount: 0.053155
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:02:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

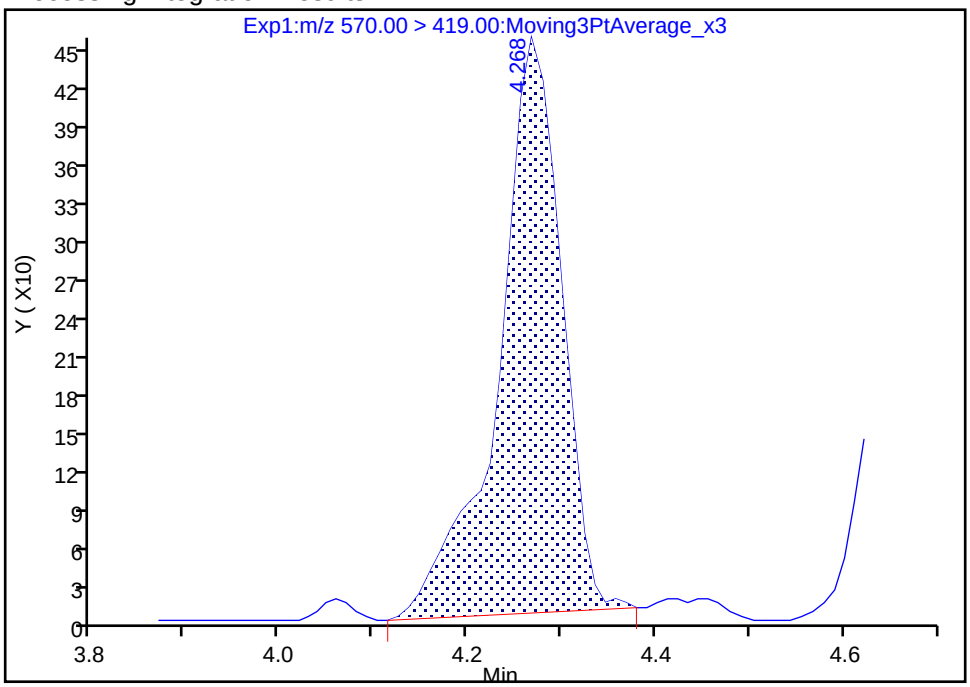
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Injection Date: 08-Jul-2021 15:19:02 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

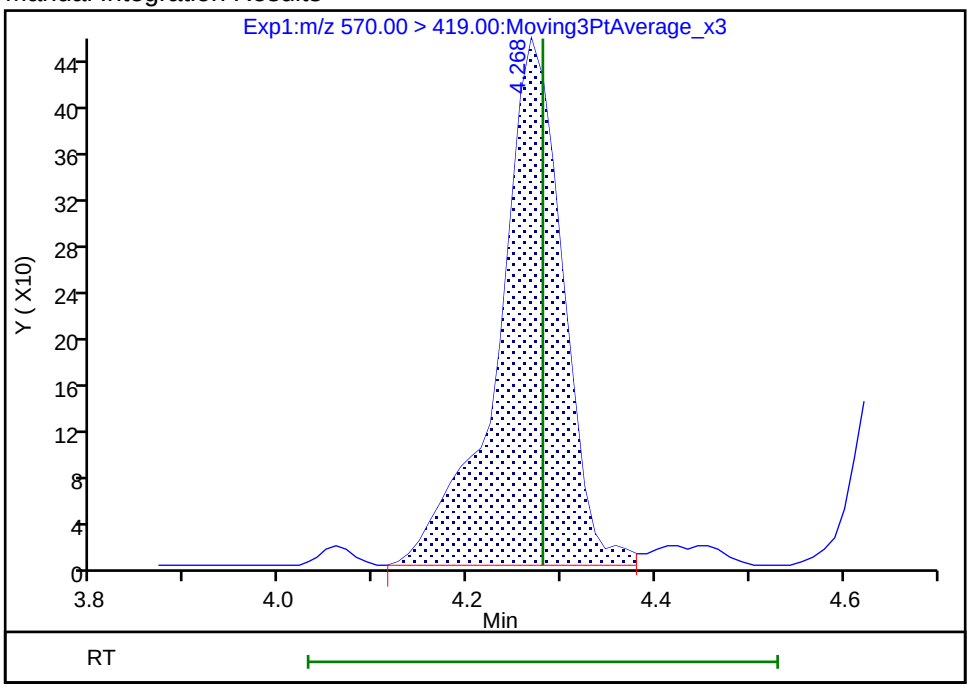
Processing Integration Results

RT: 4.27
Area: 2119
Amount: 0.040842
Amount Units: ng/ml



Manual Integration Results

RT: 4.27
Area: 2198
Amount: 0.042151
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:32:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

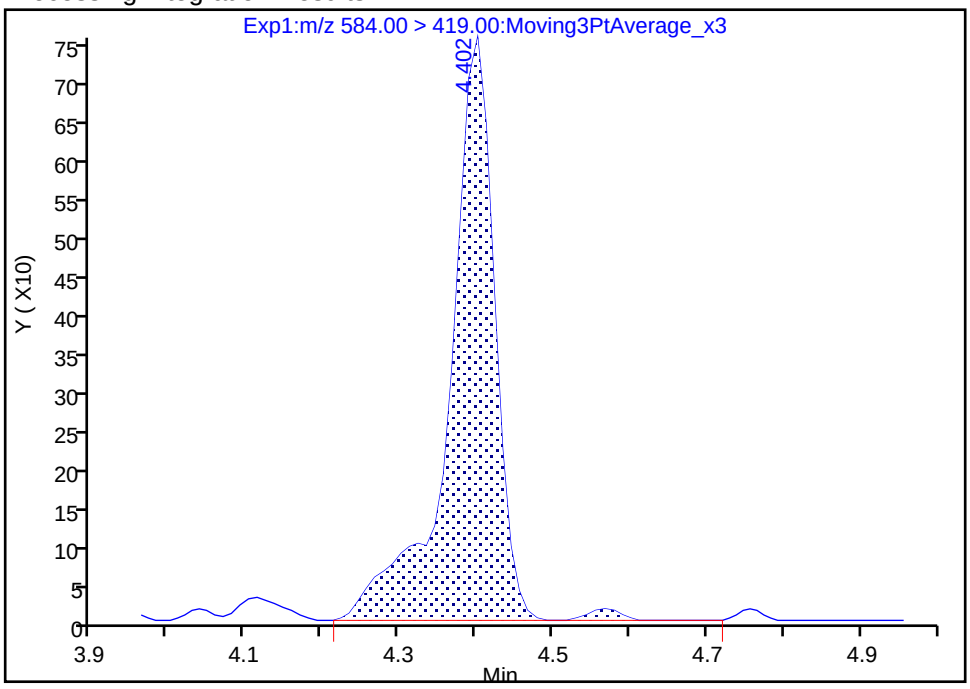
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Injection Date:	08-Jul-2021 15:19:02	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

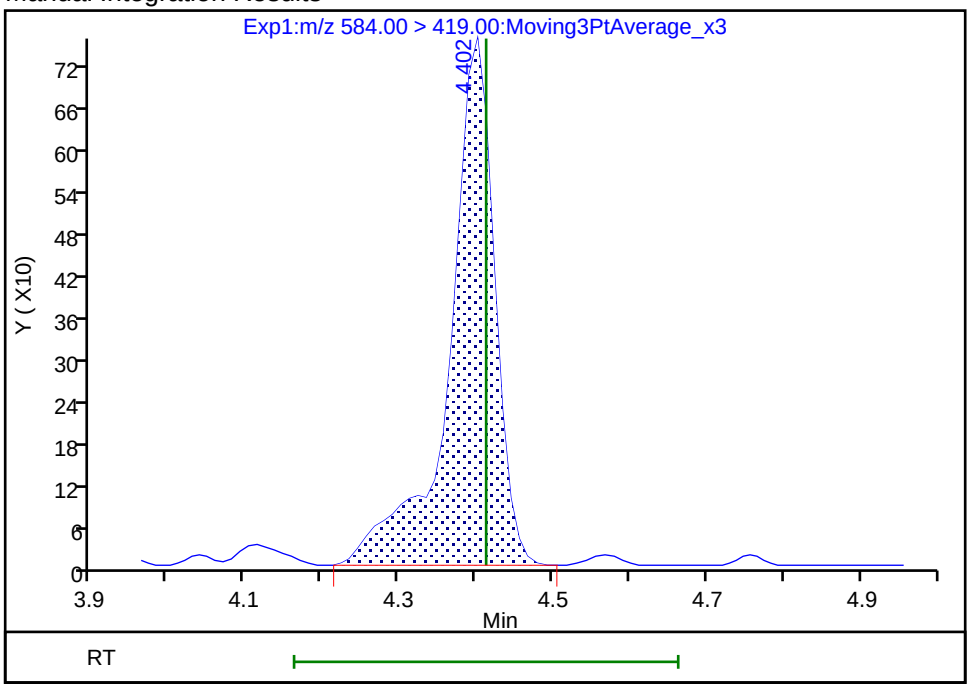
Processing Integration Results

RT: 4.40
Area: 3163
Amount: 0.045933
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 3119
Amount: 0.047781
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:02:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Jul-2021 15:27:19 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0046726-003 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 08-Jul-2021 16:36:02 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1667

First Level Reviewer: chirgwinb Date: 08-Jul-2021 16:36:02
Ratio Calibration: Average of Initial Calibration

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	2.109	2.109	0.0	0.601	1503281	1.25		100	8474	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.109	0.0	1.000	120953	0.1044		104	19.8	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.439	0.0	0.695	1166341	1.28		103	3175	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.439	2.439	0.0	1.000	97734	0.1012		101	14.4	
D 47 13C3 PFBS										
301.90 > 80.00	2.452	2.452	0.0	0.699	1149674	1.19		103	207909	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.452	2.452	0.0	1.000	93300	0.0873	Target=2.20	98.8	307	
298.90 > 99.00	2.452	2.452	0.0	1.000	39421		2.37(1.10-3.30)	98.8	32.3	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.758	2.758	0.0	1.000	13350	0.0859		92.0	482	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.758	2.758	0.0	0.786	94104	1.18		101	161	
D 7 13C2 PFHxA										
315.00 > 270.00	2.794	2.795	-0.001	0.796	1273524	1.27		102	3706	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.794	2.795	-0.001	1.000	107962	0.1053	Target=13.03	105	30.8	
313.00 > 119.00	2.794	2.795	-0.001	1.000	7560		14.28(6.51-19.54)	105	22.0	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.794	2.795	-0.001	0.886	91884	0.0974	Target=3.51	104	501	
349.00 > 99.00	2.794	2.795	-0.001	0.886	25800		3.56(1.75-5.26)	104	54.6	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.902	2.902	0.0	1.000	18953	0.0925		92.5	7.7	M

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	2.902	2.902	0.0	0.827	154872	1.43		115	1977	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.154	0.0	0.898	907499	1.19		100	1897	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.154	3.154	0.0	1.000	83688	0.0942	Target=4.55	104	513	
399.00 > 99.00	3.154	3.154	0.0	1.000	19296		4.34(2.28-6.83)	104	28.2	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.154	0.0	0.898	1349831	1.35		108	4351	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.154	3.154	0.0	1.000	110943	0.0994	Target=3.67	99.4	66.2	
363.00 > 169.00	3.154	3.154	0.0	1.000	29203		3.80(1.84-5.51)	99.4	106	
77 DONA										M
377.00 > 251.00	3.197	3.196	0.0	0.836	194295	0.0997	Target=2.55	106	500	
377.00 > 85.00	3.197	3.196	0.0	0.836	71713		2.71(1.27-3.82)	106	146	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.501	3.501	0.0	0.915	69046	0.1002	Target=6.75	105	585	
449.00 > 99.00	3.501	3.501	0.0	0.915	10147		6.80(3.37-10.12)	105	39.6	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.501	3.501	0.0	0.997	131237	1.24		104	567	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.501	3.501	0.0	1.000	10172	0.0888		93.7	146	
D 14 13C4 PFOA										
417.00 > 372.00	3.510	3.510	0.0	1.000	1318355	1.27		102	3045	
* 62 13C2 PFOA										
415.00 > 370.00	3.510	3.510	0.0		1311625	1.25			3397	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.510	3.510	0.0	1.000	118647	0.1069	Target=2.67	107	57.4	
413.00 > 169.00	3.510	3.510	0.0	1.000	42856		2.77(1.33-4.00)	107	110	M
D 18 13C4 PFOS										
503.00 > 80.00	3.824	3.814	0.010	1.090	661239	1.18		99.1	2717	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.824	3.824	0.0	1.000	60234	0.0971	Target=6.26	105	112	M
499.00 > 99.00	3.824	3.824	0.0	1.000	9847		6.12(3.13-9.39)	105	32.5	M
D 19 13C5 PFNA										
468.00 > 423.00	3.836	3.836	0.0	1.093	1217333	1.24		99.0	4959	
20 Perfluorononanoic acid										
463.00 > 419.00	3.847	3.847	0.0	1.003	94218	0.1001	Target=6.99	100	37.9	
463.00 > 169.00	3.836	3.847	-0.011	1.000	13038		7.23(3.49-10.48)	100	123	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.983	3.983	0.0	1.041	62127	0.0916		98.3	490	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.115	4.104	0.011	1.076	44013	0.0959	Target=3.17	99.8	746	
549.00 > 99.00	4.115	4.104	0.011	1.076	14491		3.04(1.58-4.75)	99.8	70.6	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.137	0.0	1.179	1089788	1.22		97.7	3316	

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	4.137	4.137	0.0	1.000	105029	0.1132	Target=8.56	113	108	
513.00 > 169.00	4.137	4.137	0.0	1.000	11387		9.22(4.28-12.83)	113	177	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.148	4.148	0.0	1.000	5929	0.0945		98.6	167	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.148	4.148	0.0	1.182	150847	1.19		99.7	714	
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.214	0.0	1.201	1248356	1.27		101	2558	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.214	4.214	0.0	1.000	102221	0.1046		105	315	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.280	0.0	1.219	83033	1.26		101	777	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.291	4.280	0.011	1.003	6517	0.1180		118	30.8	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.369	4.369	0.0	1.142	33676	0.0961	Target=2.85	99.7	449	
599.00 > 99.00	4.369	4.369	0.0	1.142	10998		3.06(1.42-4.27)	99.7	89.2	
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.402	0.0	1.254	927192	1.31		105	3206	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.402	4.402	0.0	1.000	71196	0.0992	Target=7.99	99.2	111	
563.00 > 169.00	4.402	4.402	0.0	1.000	8827		8.07(4.00-11.99)	99.2	111	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.413	0.0	1.257	87576	1.28		103	859	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.413	0.0	1.000	6603	0.1112		111	159	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.492	4.492	0.0	1.175	54460	0.0973		103	805	
D 36 13C2 PFDoA										
615.00 > 570.00	4.633	4.633	0.001	1.320	884777	1.21		96.7	3056	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.001	1.000	73185	0.1024	Target=6.41	102	36.9	M
613.00 > 169.00	4.633	4.633	0.001	1.000	11444		6.40(3.21-9.62)	102	188	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.653	4.643	0.010	1.122	3004	0.0946		98.1	109	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.801	4.801	0.0	1.255	12648	0.1061	Target=0.46	110	417	
699.00 > 99.00	4.801	4.801	0.0	1.255	25659		0.49(0.23-0.69)	110	268	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.845	4.845	0.0	1.046	70974	0.1152	Target=4.67	115	42.7	
663.00 > 169.00	4.845	4.845	0.0	1.046	14792		4.80(2.33-7.00)	115	191	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.034	5.034	0.0	1.434	714829	1.25		99.7	3453	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.034	5.034	0.0	1.000	9954	0.1013	Target=1.01	101	216	
713.00 > 219.00	5.034	5.034	0.0	1.000	10582		0.94(0.51-1.52)	101	243	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.383	5.383	0.0	1.534	750052	1.28		103	3215	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.383	5.383	0.0	1.000	60792	0.0981	Target=4.09	98.1	43.5	
813.00 > 169.00	5.383	5.383	0.0	1.000	15649		3.88(2.05-6.14)	98.1	348	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.701	5.701	0.0	1.059	48822	0.0961	Target=3.78	96.1	49.6	
913.00 > 169.00	5.701	5.701	0.0	1.059	13232		3.69(1.89-5.67)	96.1	387	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC2_00008 Amount Added: 100.00 Units: uL

Report Date: 08-Jul-2021 16:36:02 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d

Injection Date: 08-Jul-2021 15:27:19 Instrument ID: LC812

Lims ID: IC

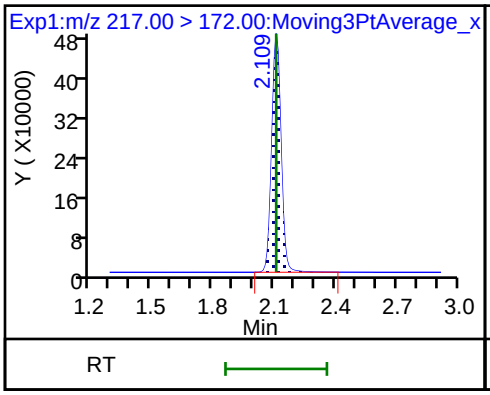
Client ID:

Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3

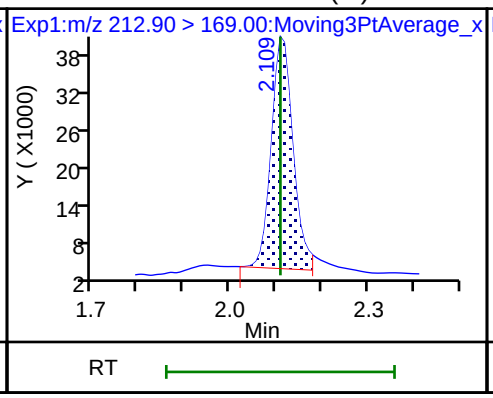
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

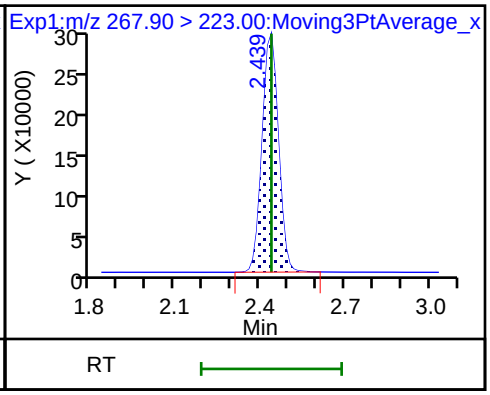
D 1 13C4 PFBA



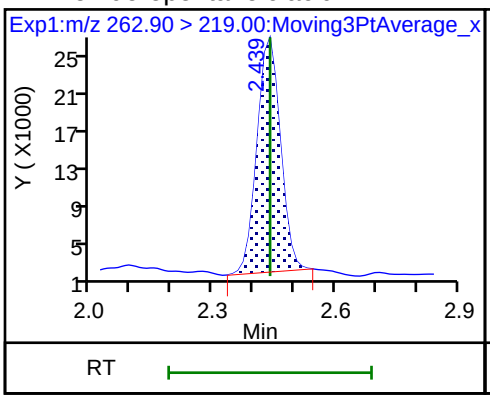
2 Perfluorobutanoic acid (M)



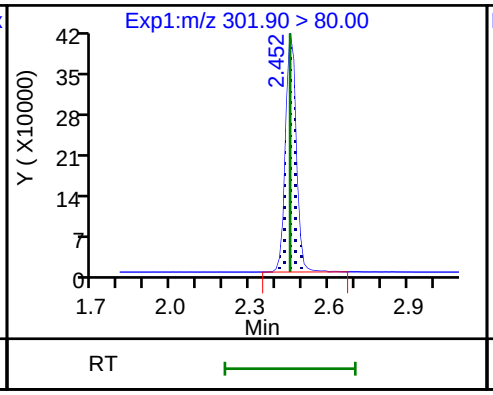
D 3 13C5 PFPeA



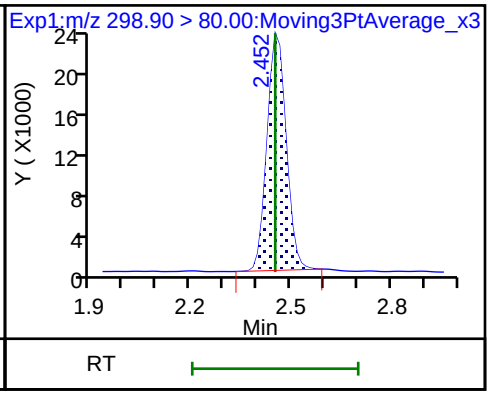
4 Perfluoropentanoic acid



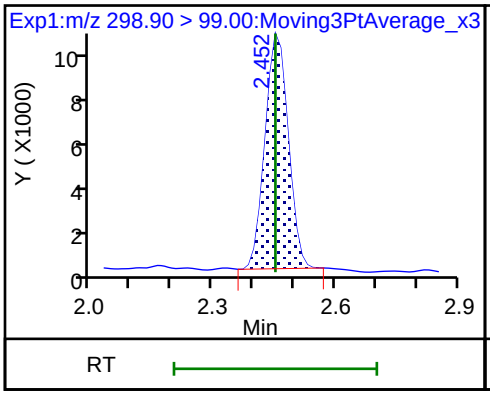
D 47 13C3 PFBS



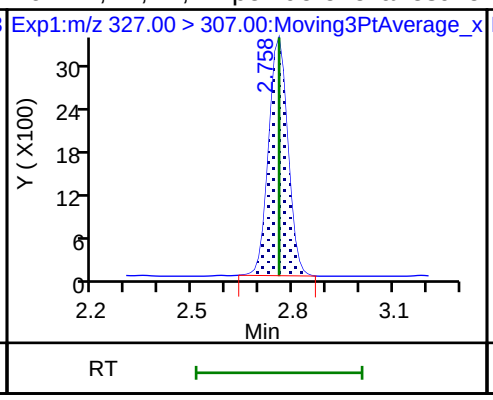
5 Perfluorobutanesulfonic acid



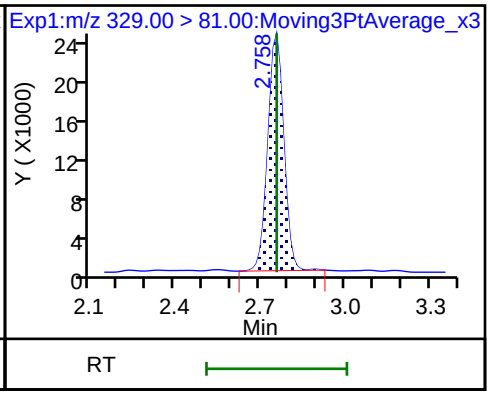
5 Perfluorobutanesulfonic acid



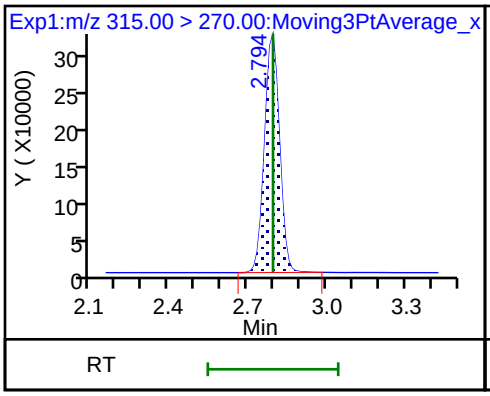
61 1H,1H,2H,2H-perfluorohexanesulfo



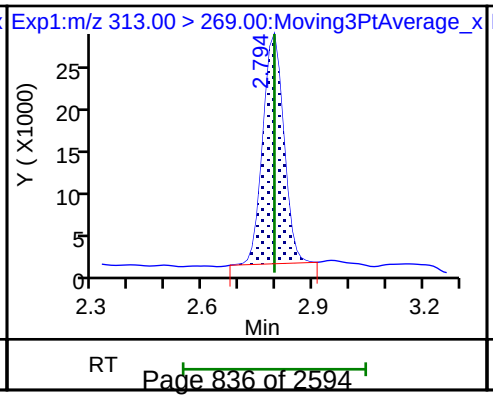
D 60 M2-4:2 FTS



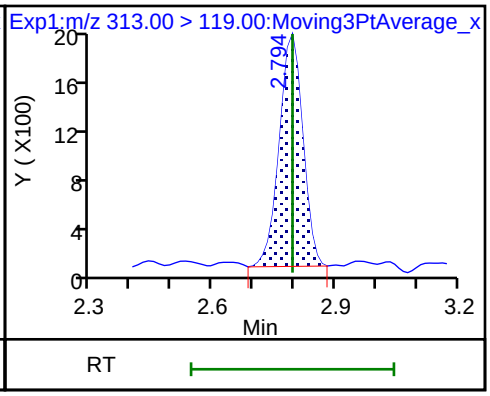
D 7 13C2 PFHxA



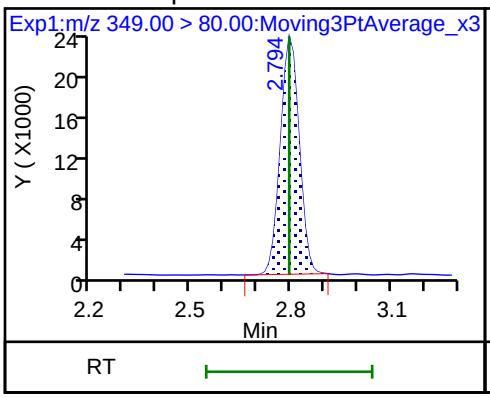
6 Perfluorohexanoic acid



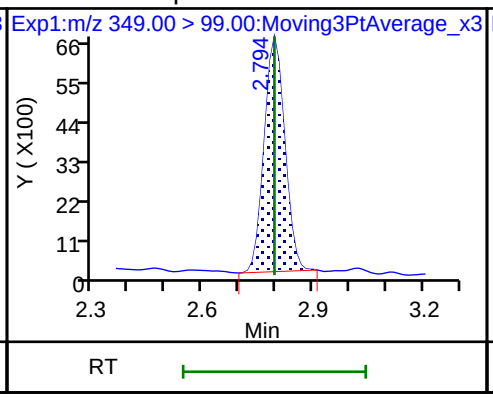
6 Perfluorohexanoic acid



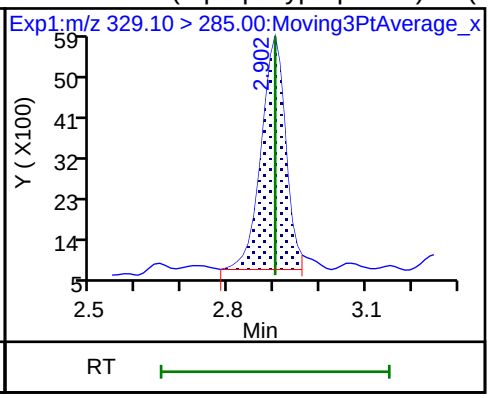
70 Perfluoropentanesulfonic acid



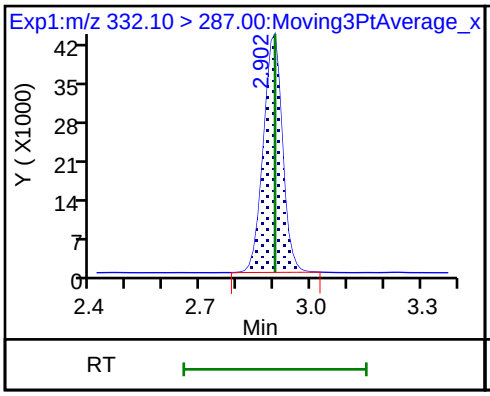
70 Perfluoropentanesulfonic acid



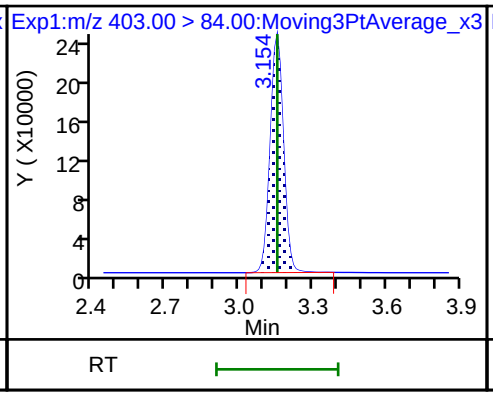
67 Perfluoro(2-propoxypropanoic) ac (M)



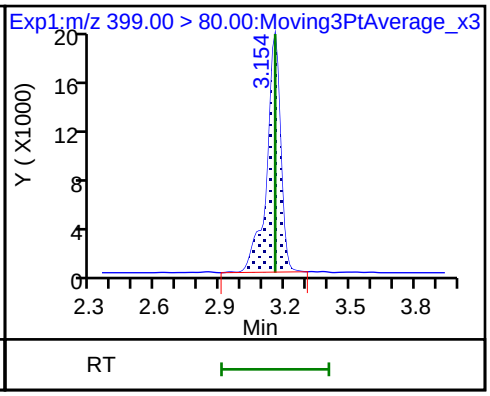
D 64 13C3 HFPO-DA



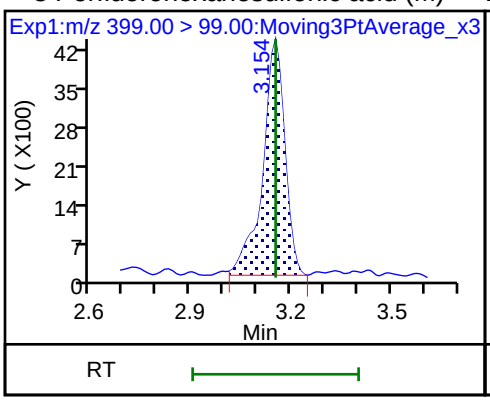
D 11 18O2 PFHxS



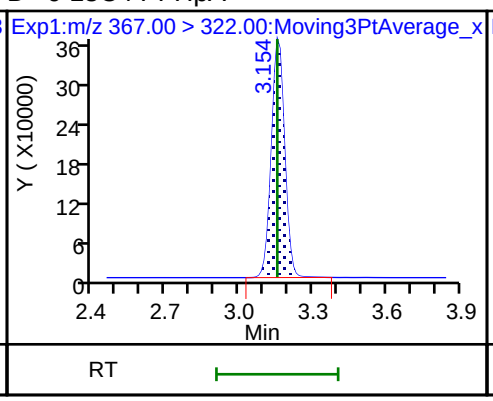
8 Perfluorohexanesulfonic acid



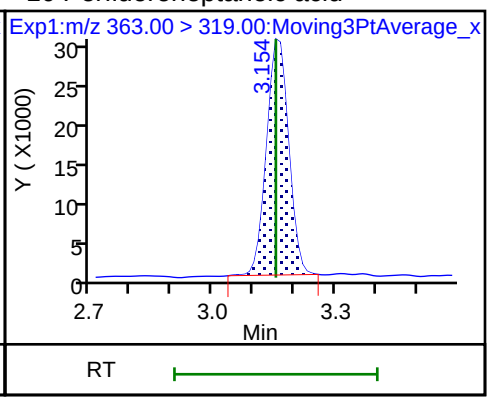
8 Perfluorohexanesulfonic acid (M)



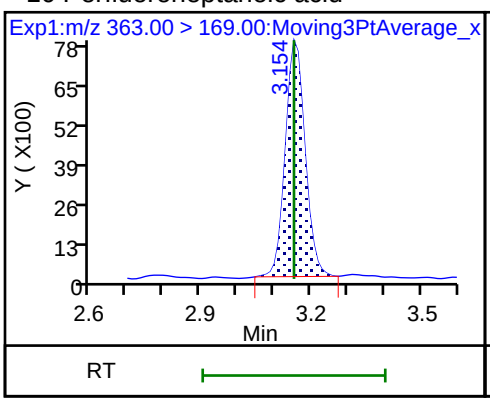
D 9 13C4 PFHpA



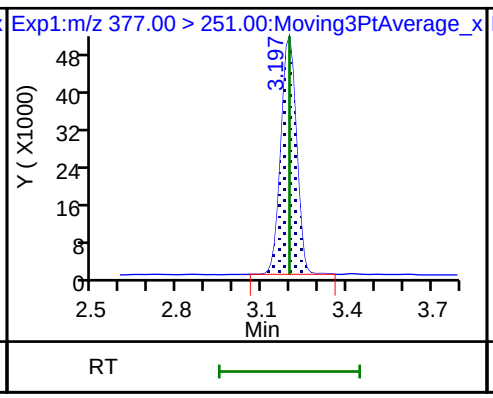
10 Perfluoroheptanoic acid



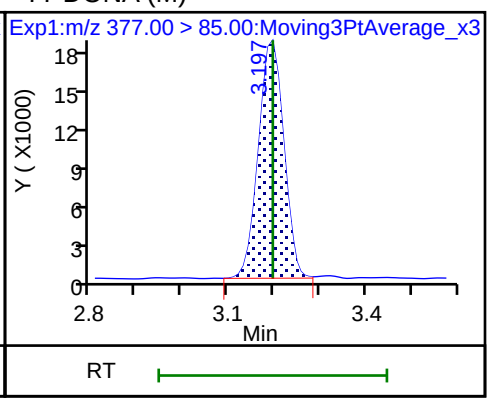
10 Perfluoroheptanoic acid



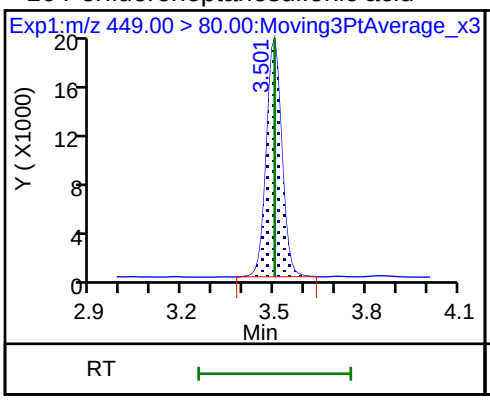
77 DONA



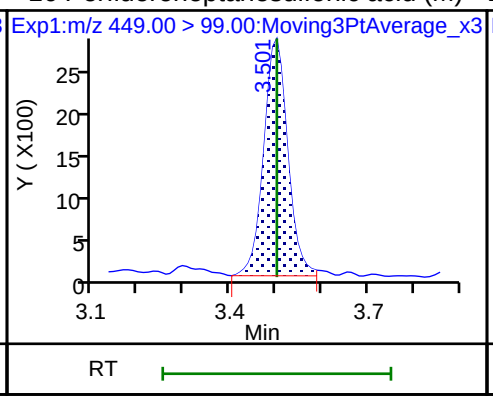
77 DONA (M)



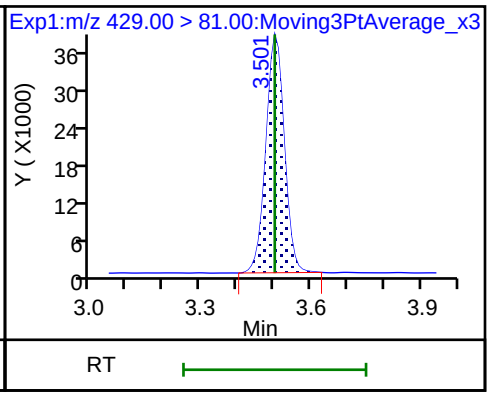
16 Perfluoroheptanesulfonic acid



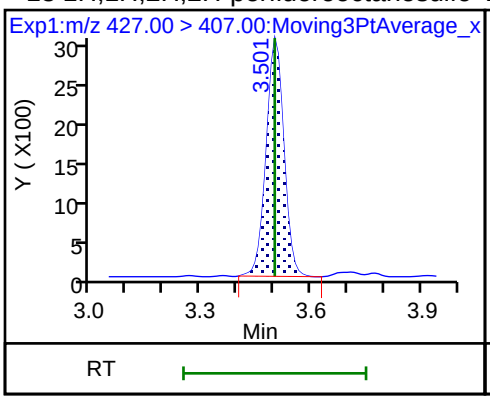
16 Perfluoroheptanesulfonic acid (M)



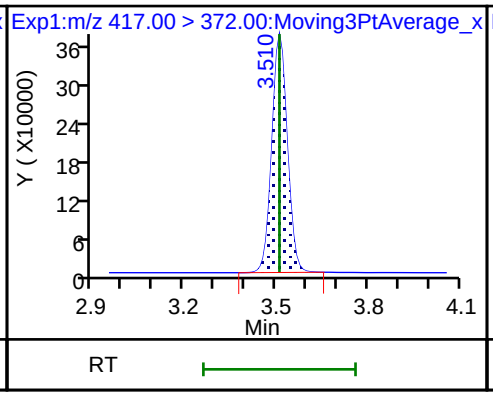
D 12 M2-6:2 FTS



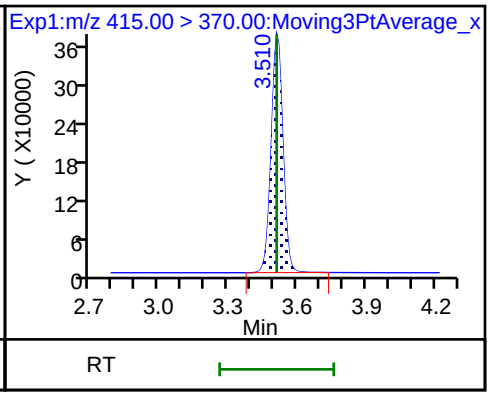
13 1H,1H,2H,2H-perfluorooctanesulfo



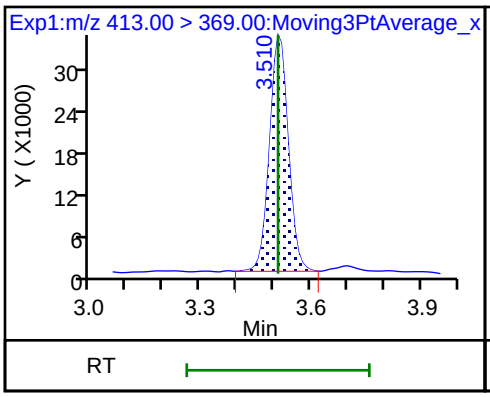
D 14 13C4 PFOA



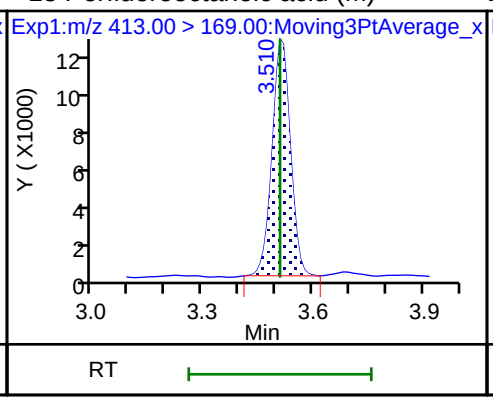
* 62 13C2 PFOA



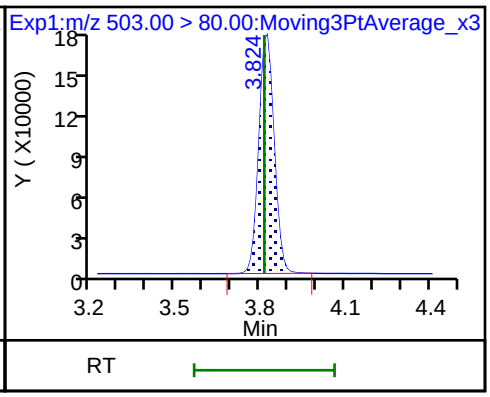
15 Perfluorooctanoic acid



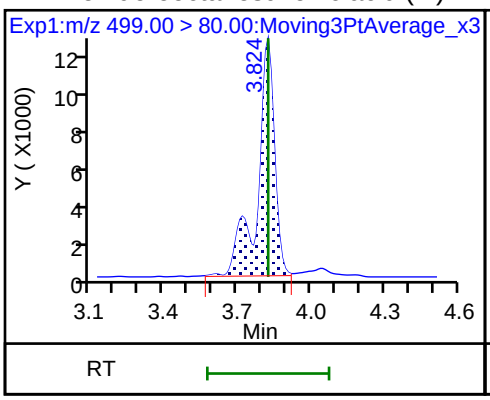
15 Perfluorooctanoic acid (M)



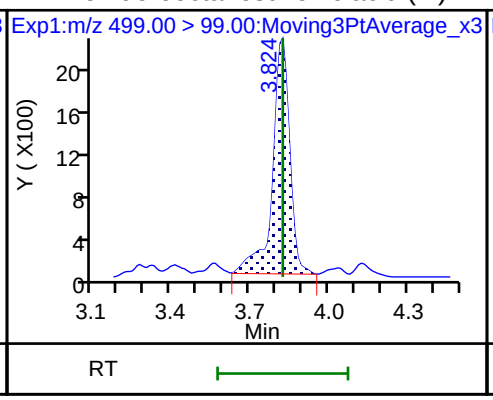
D 18 13C4 PFOS



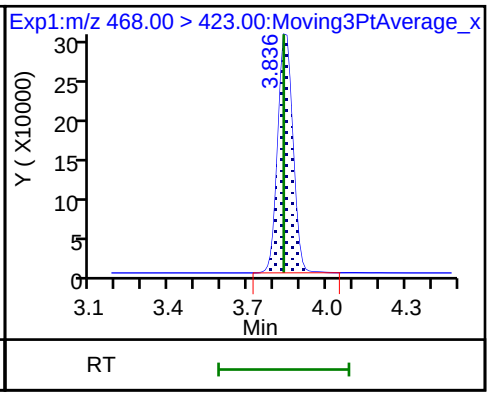
17 Perfluorooctanesulfonic acid (M)



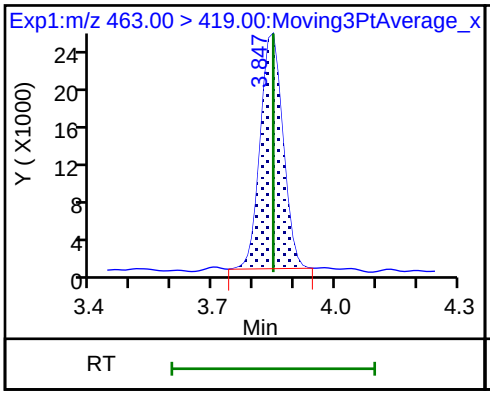
17 Perfluorooctanesulfonic acid (M)



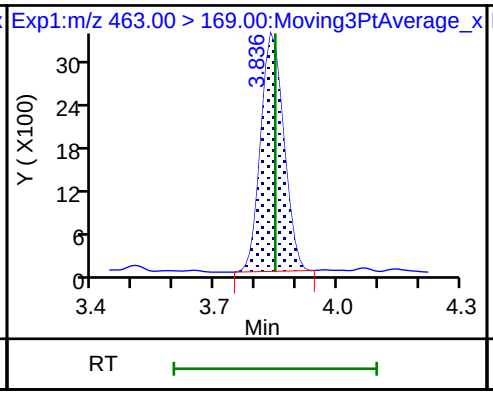
D 19 13C5 PFNA



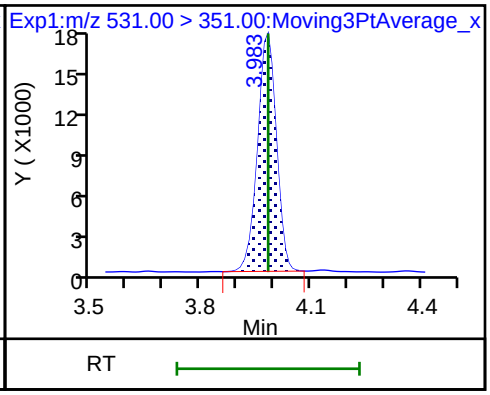
20 Perfluorononanoic acid



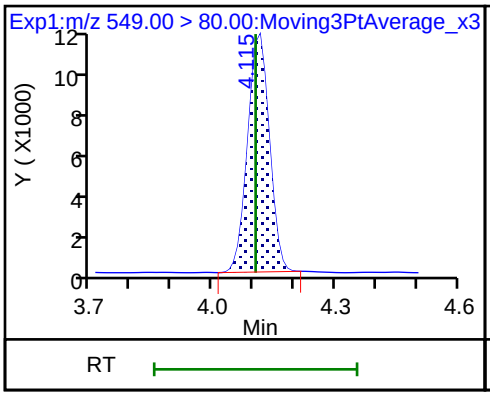
20 Perfluorononanoic acid



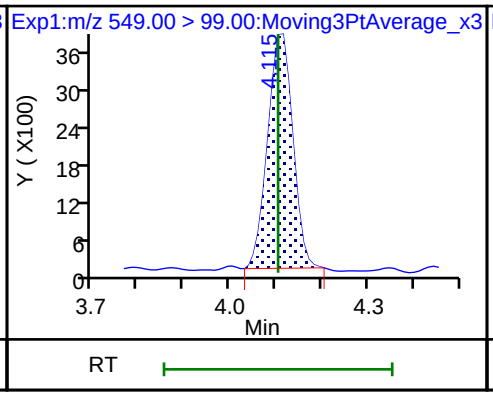
69 9-Chlorohexadecafluoro-3-oxanona



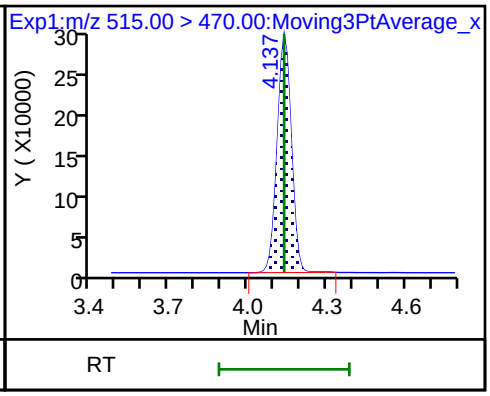
68 Perfluorononanesulfonic acid



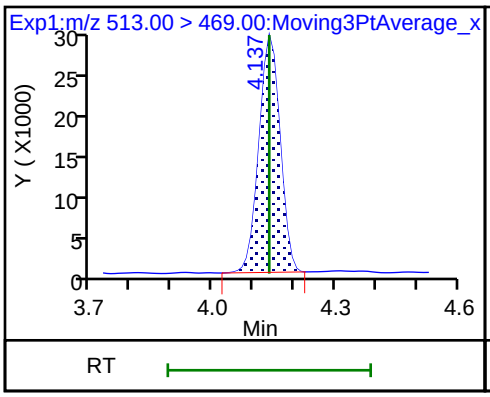
68 Perfluorononanesulfonic acid



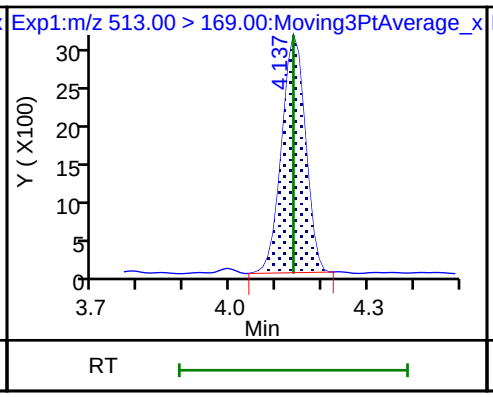
D 23 13C2 PFDA



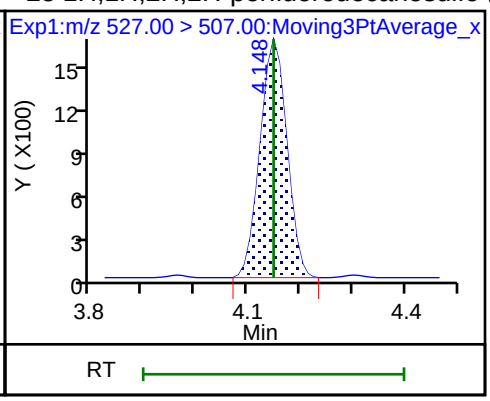
24 Perfluorodecanoic acid



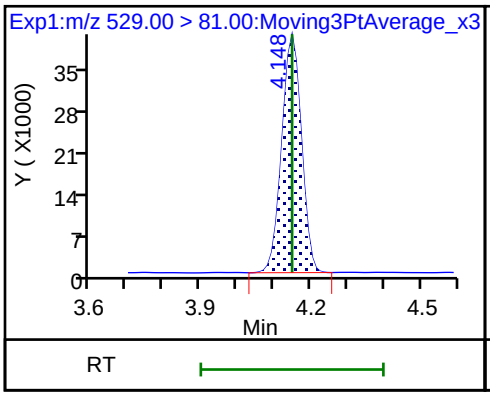
24 Perfluorodecanoic acid



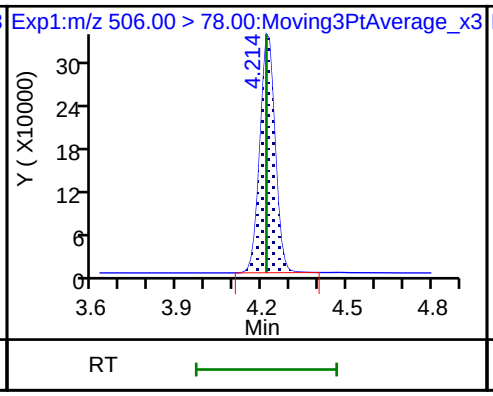
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



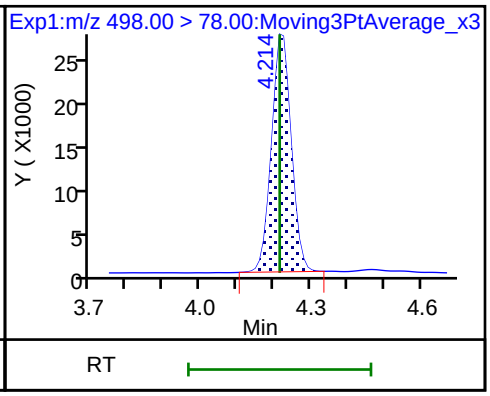
D 26 M2-8:2 FTS



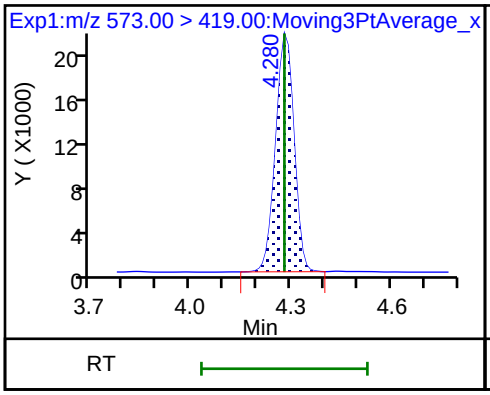
D 21 13C8 FOSA



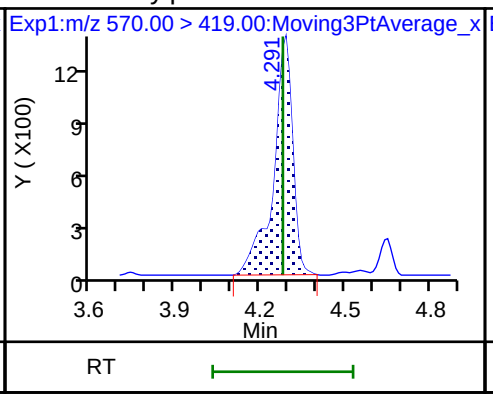
22 Perfluorooctanesulfonamide



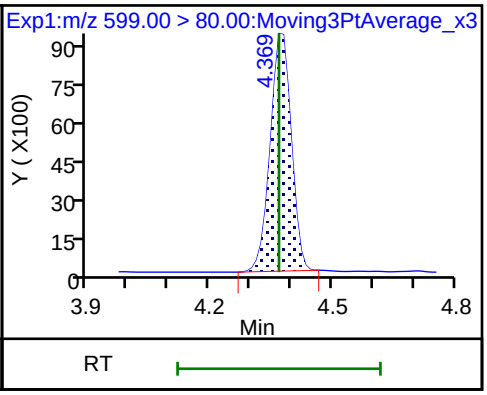
D 27 d3-NMeFOSAA



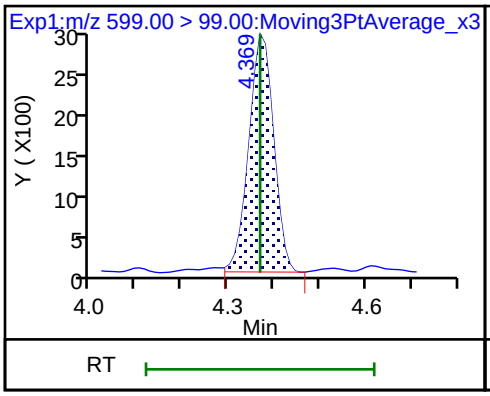
28 N-methylperfluorooctanesulfonami



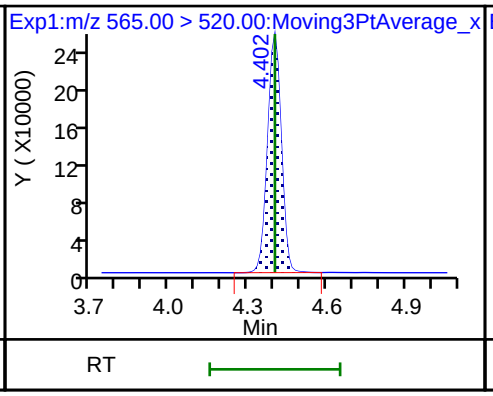
29 Perfluorodecanesulfonic acid



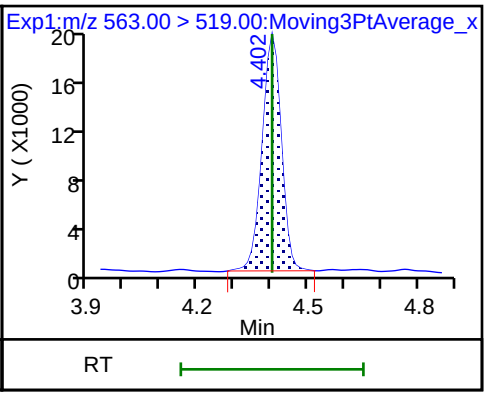
29 Perfluorodecanesulfonic acid



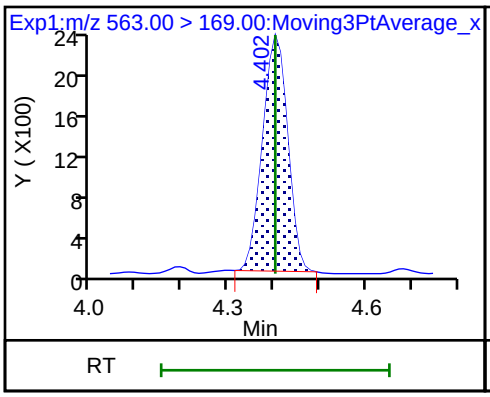
D 30 13C2 PFUnA



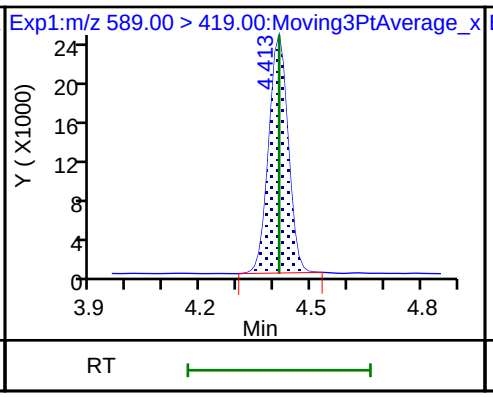
31 Perfluoroundecanoic acid



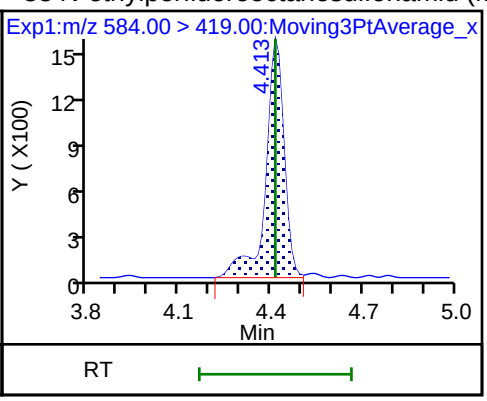
31 Perfluoroundecanoic acid



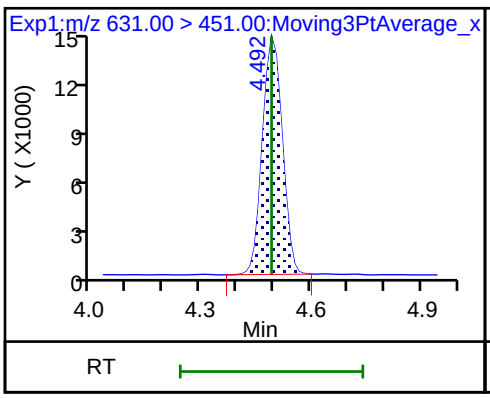
D 32 d5-NEtFOSAA



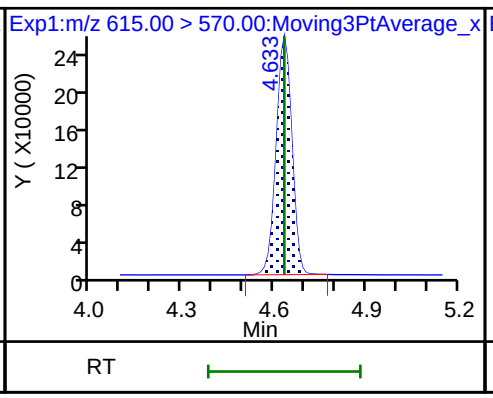
33 N-ethylperfluorooctanesulfonamid (M)



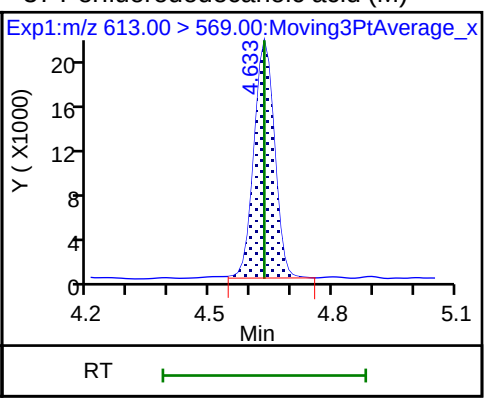
66 11-Chloroeicosafluoro-3-oxaundec



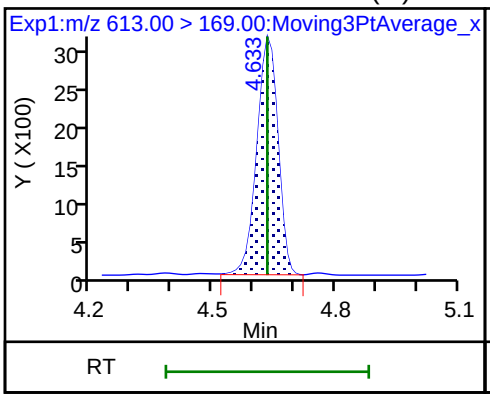
D 36 13C2 PFDoA



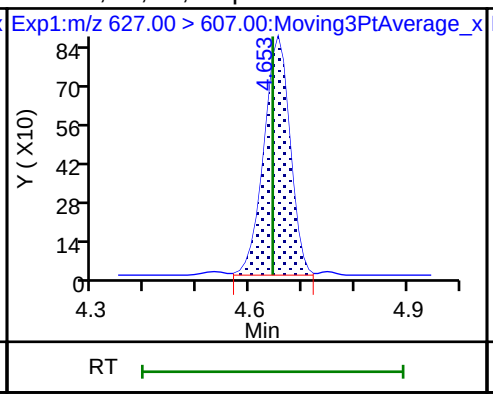
37 Perfluorododecanoic acid (M)



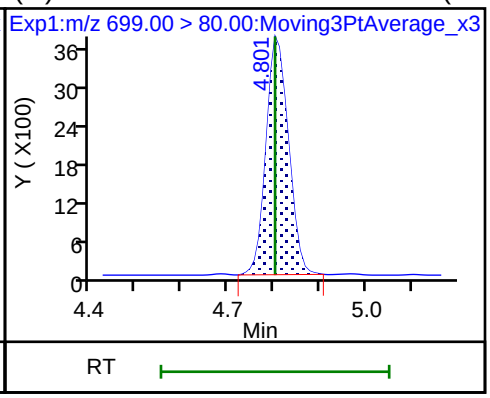
37 Perfluorododecanoic acid (M)



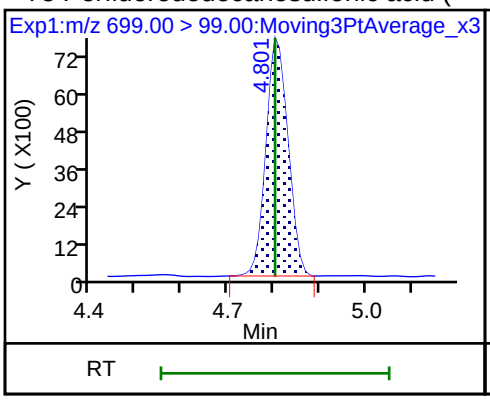
74 1H,1H,2H,2H-perfluorododecanesul (M)



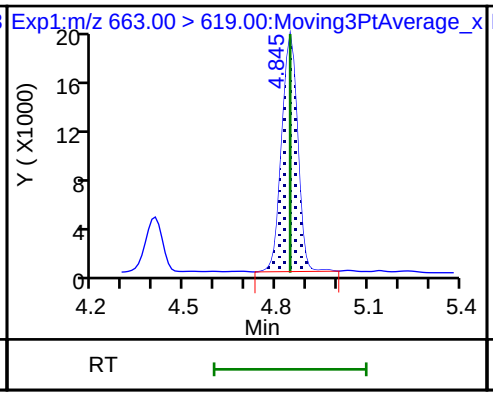
75 Perfluorododecanesulfonic acid (



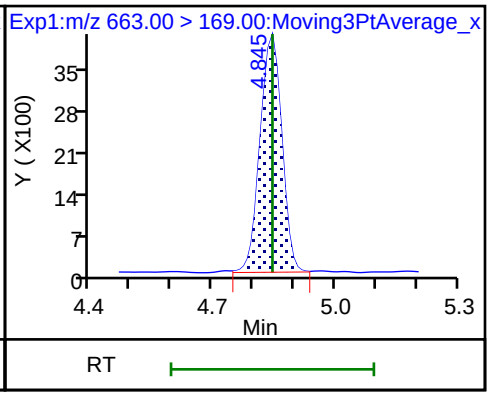
75 Perfluorododecanesulfonic acid (



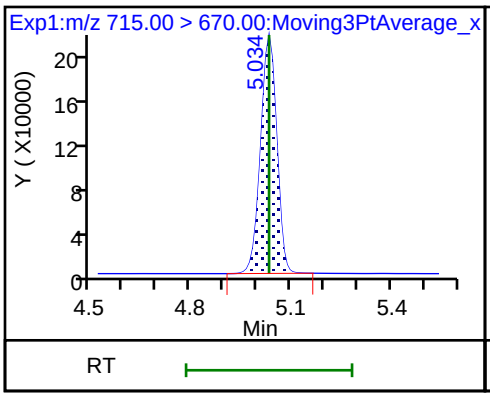
41 Perfluorotridecanoic acid



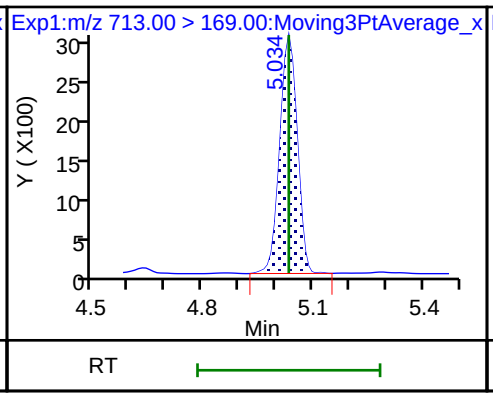
41 Perfluorotridecanoic acid



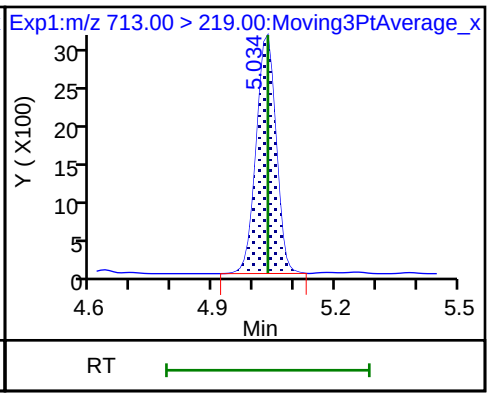
D 43 13C2 PFTeDA



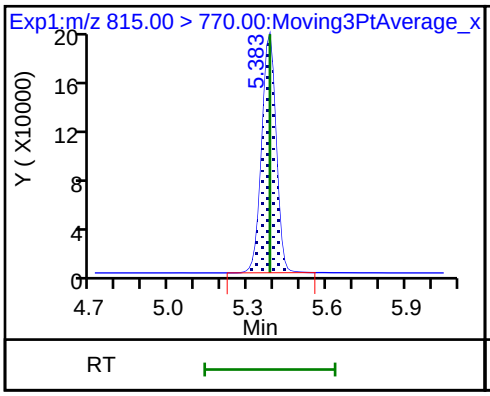
42 Perfluorotetradecanoic acid



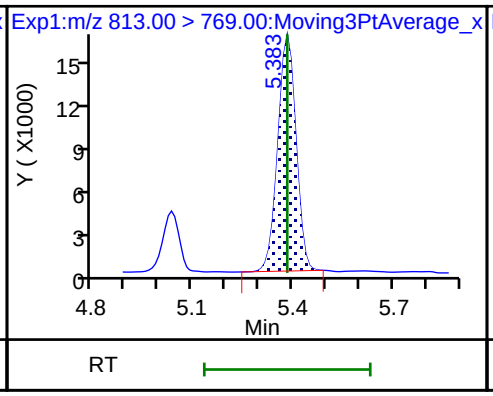
42 Perfluorotetradecanoic acid



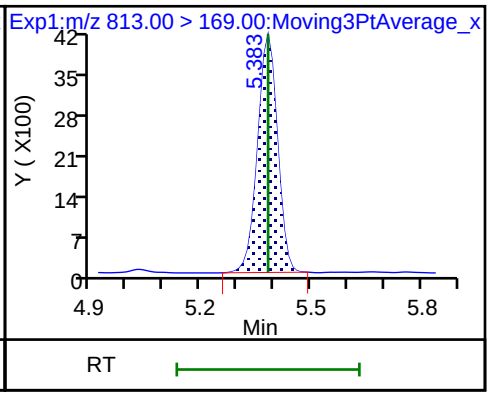
D 44 13C2 PFHxDA



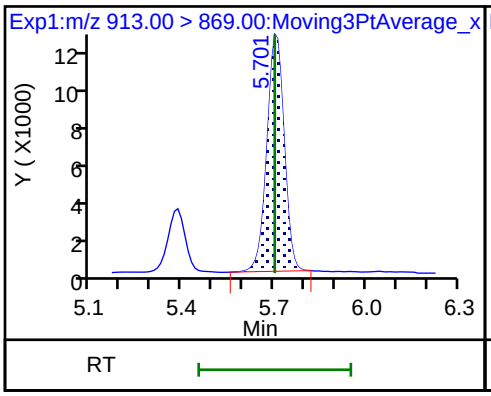
45 Perfluorohexadecanoic acid



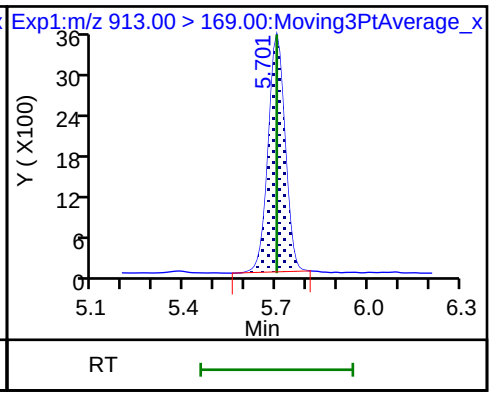
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

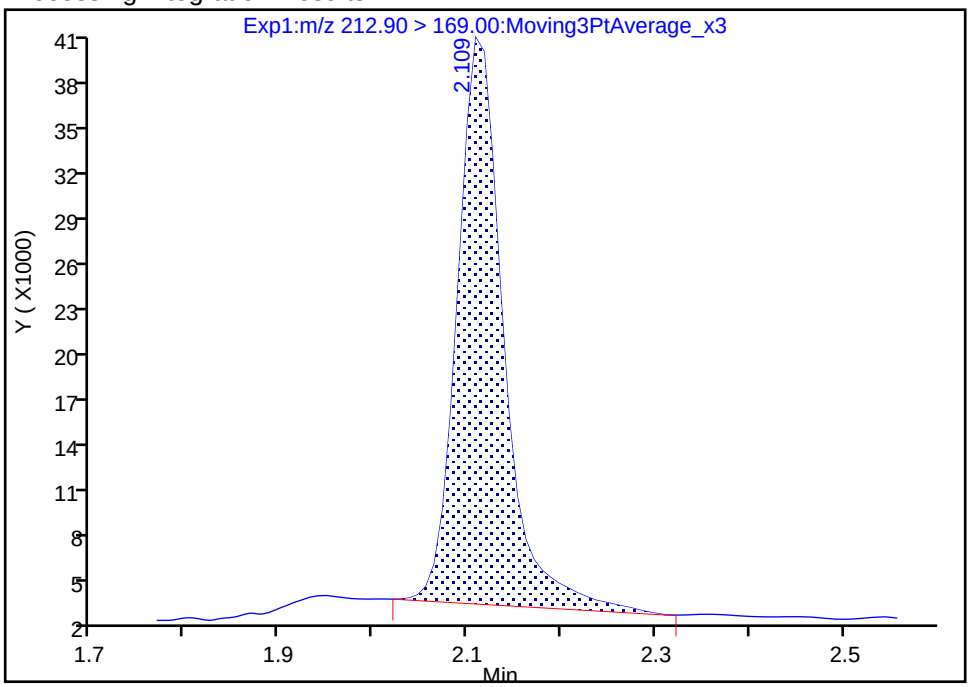
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d				
Injection Date:	08-Jul-2021 15:27:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

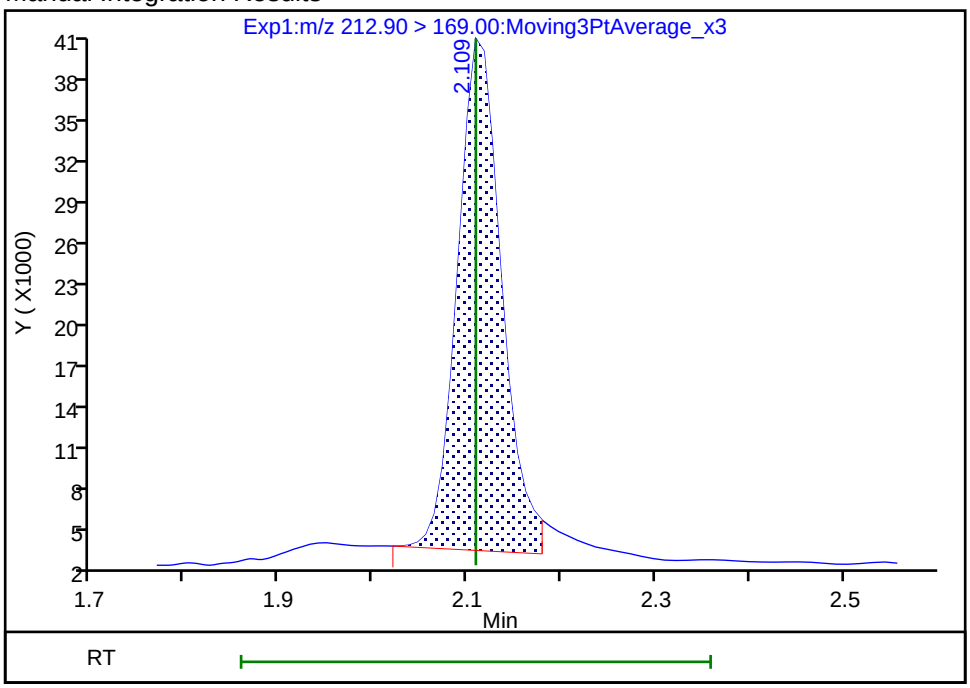
Processing Integration Results

RT: 2.11
Area: 127405
Amount: 0.104443
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 120953
Amount: 0.104356
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:06:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

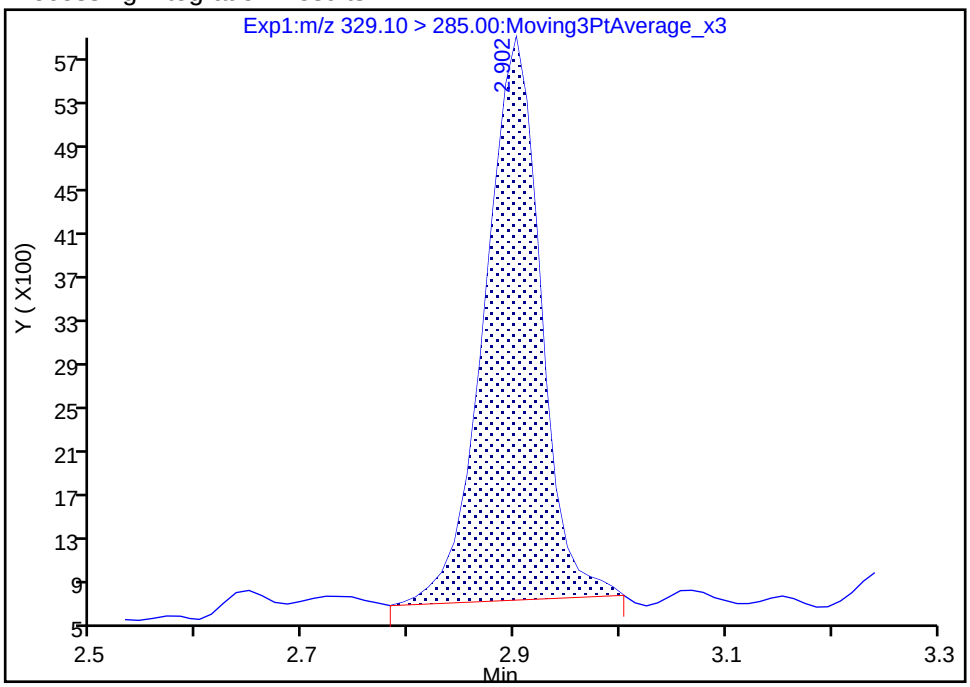
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d
Injection Date: 08-Jul-2021 15:27:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

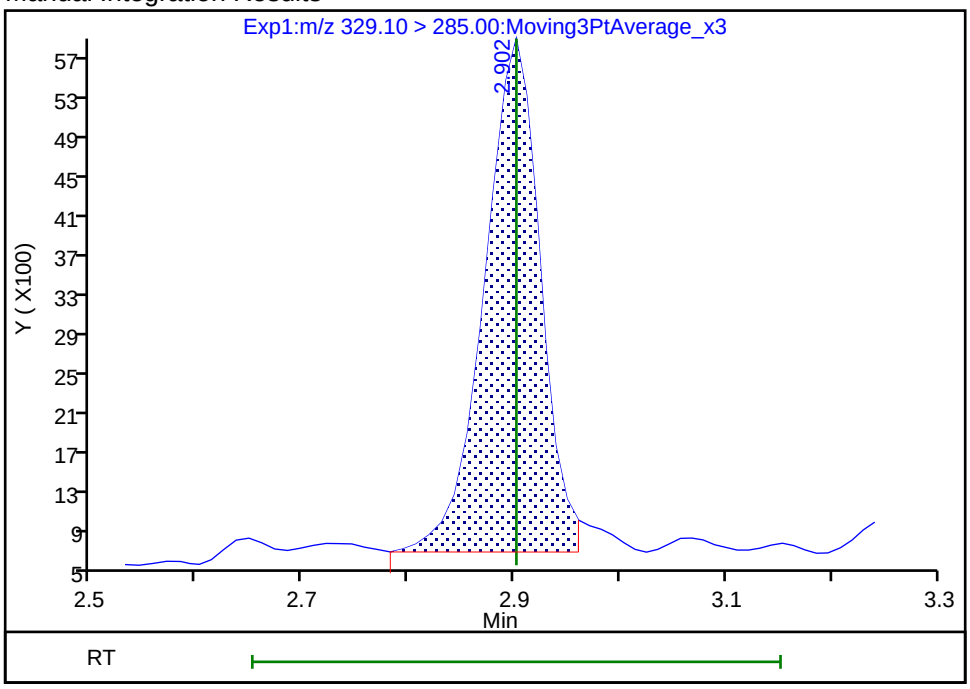
Processing Integration Results

RT: 2.90
Area: 18887
Amount: 0.089819
Amount Units: ng/ml



Manual Integration Results

RT: 2.90
Area: 18953
Amount: 0.092500
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:05:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

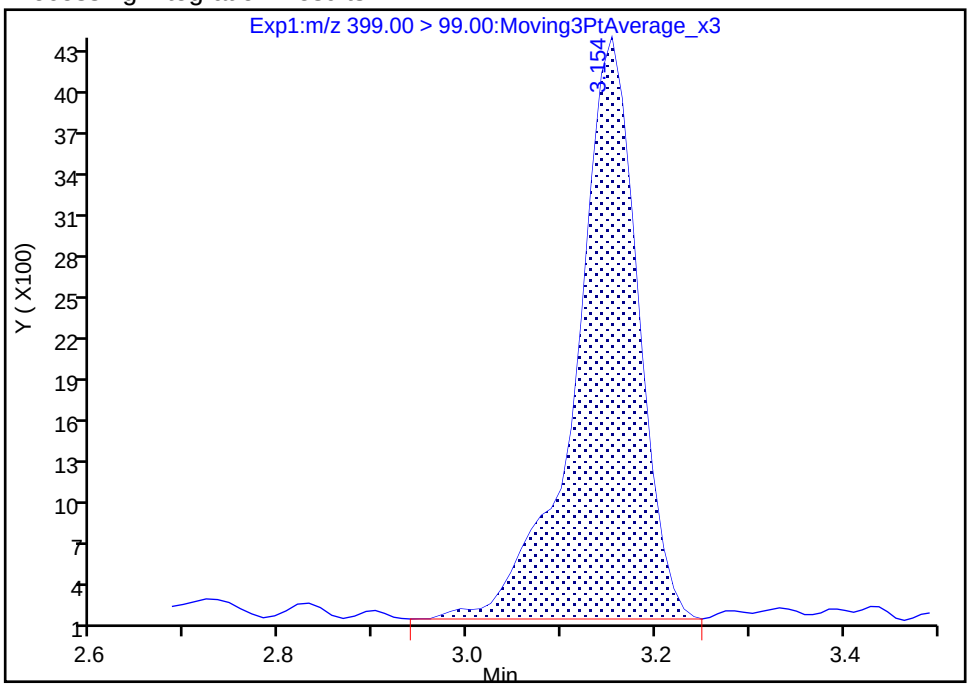
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d				
Injection Date:	08-Jul-2021 15:27:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

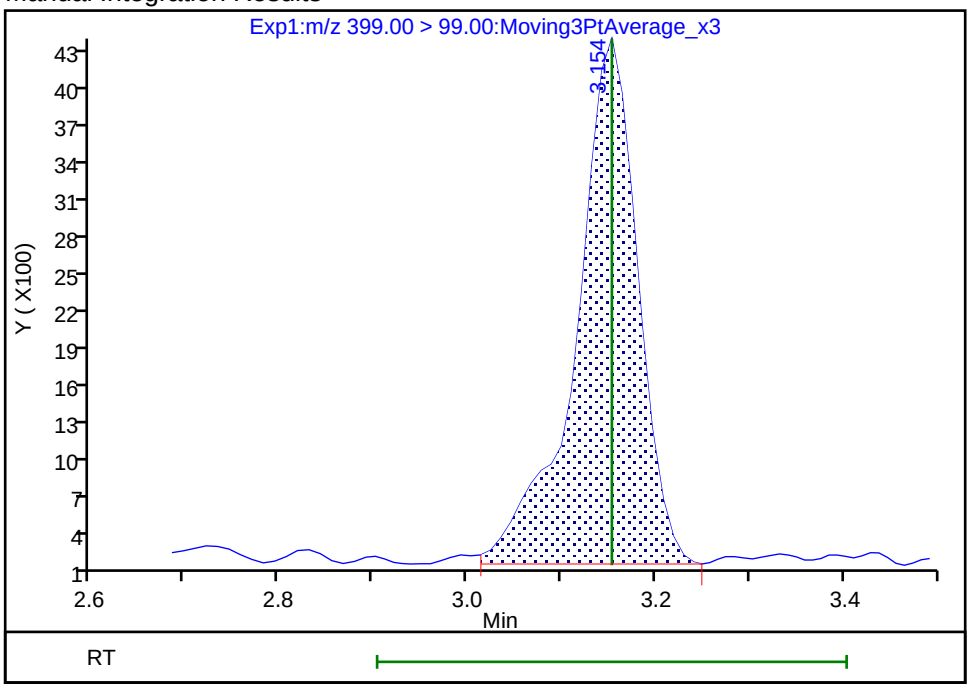
Processing Integration Results

RT: 3.15
Area: 19463
Amount: 0.092025
Amount Units: ng/ml



Manual Integration Results

RT: 3.15
Area: 19296
Amount: 0.094247
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:05:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

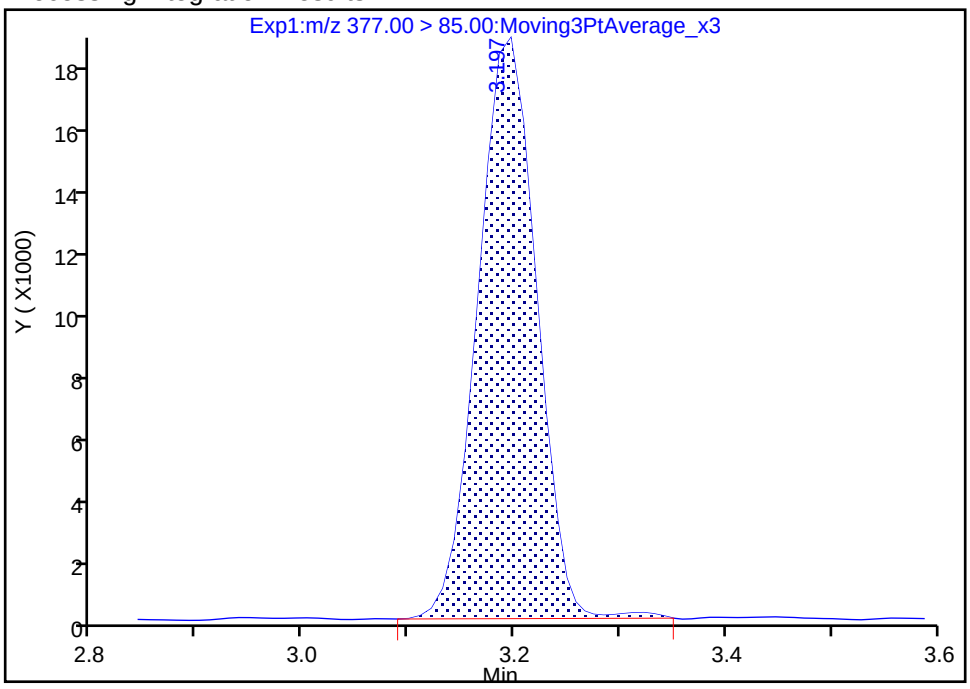
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d
Injection Date: 08-Jul-2021 15:27:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

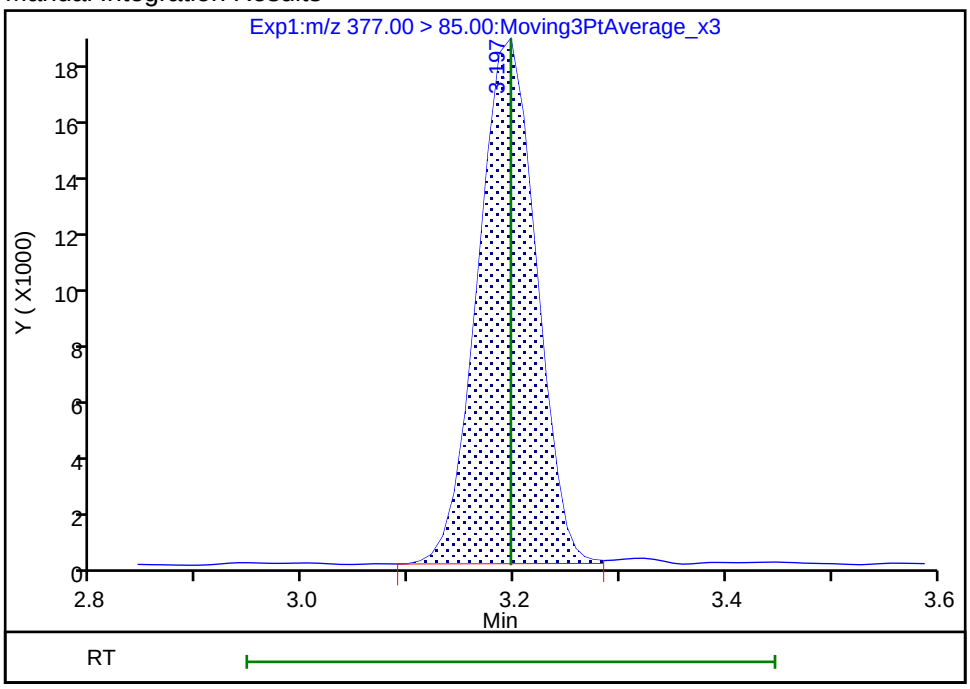
Processing Integration Results

RT: 3.20
Area: 72218
Amount: 0.097095
Amount Units: ng/ml



Manual Integration Results

RT: 3.20
Area: 71713
Amount: 0.099693
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:05:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

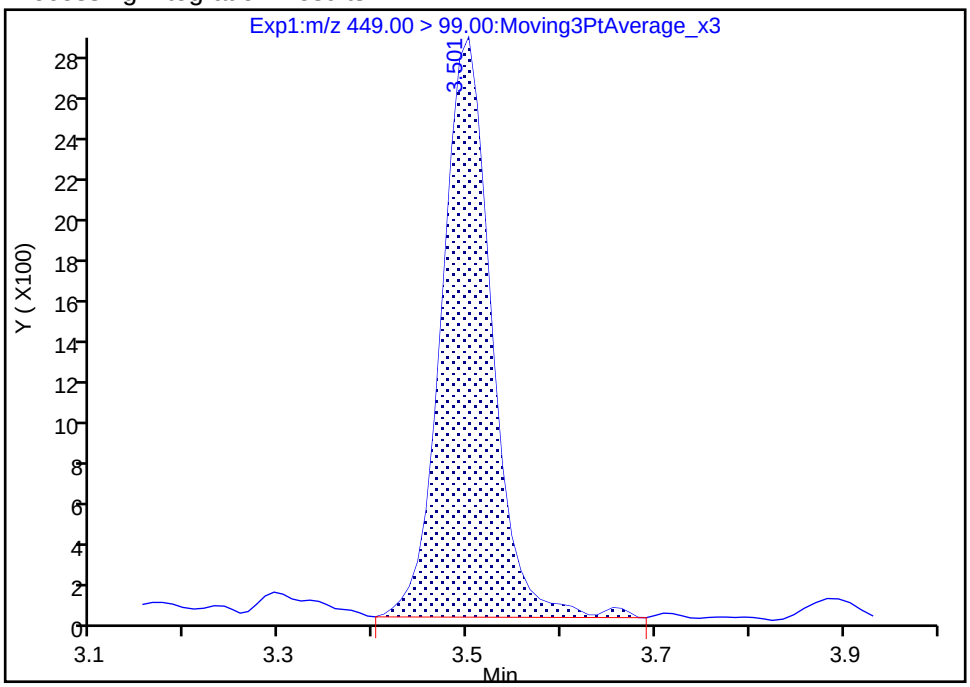
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d
Injection Date: 08-Jul-2021 15:27:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

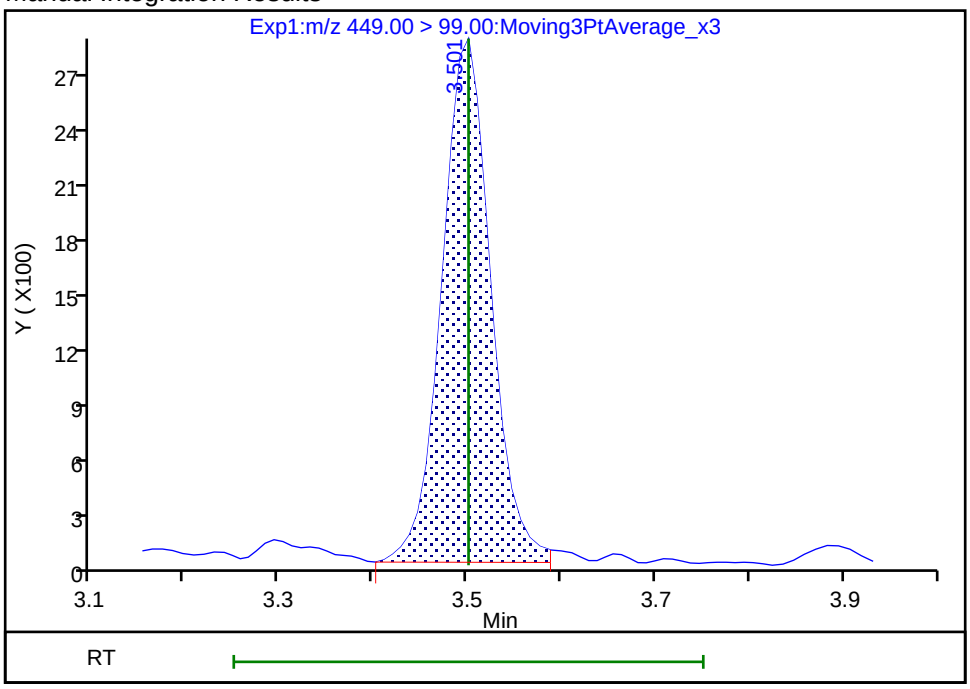
Processing Integration Results

RT: 3.50
Area: 10353
Amount: 0.097956
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 10147
Amount: 0.100206
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:05:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

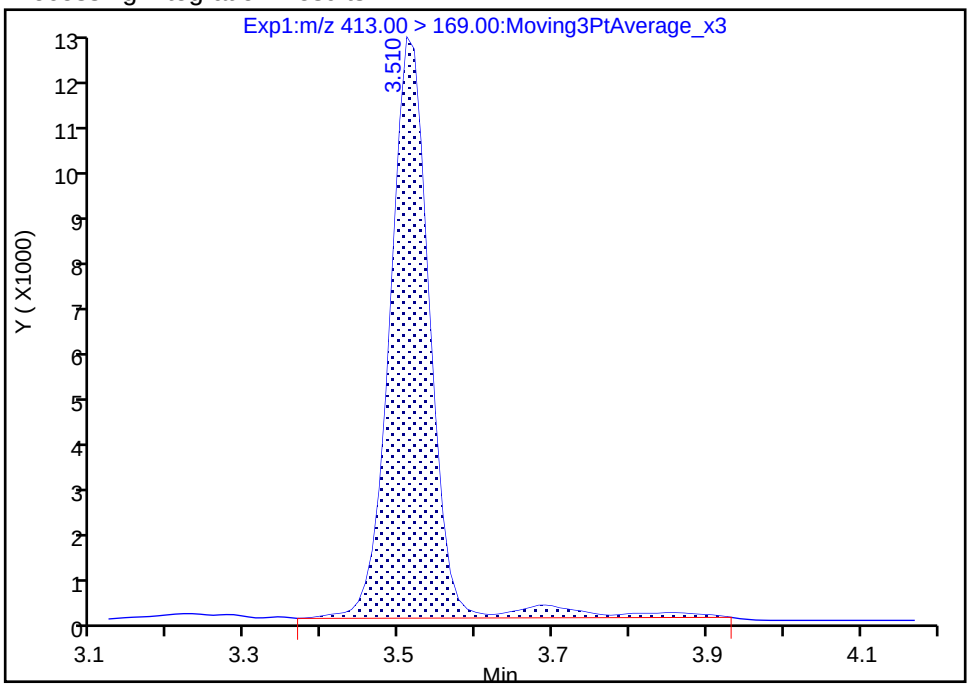
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d
Injection Date: 08-Jul-2021 15:27:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

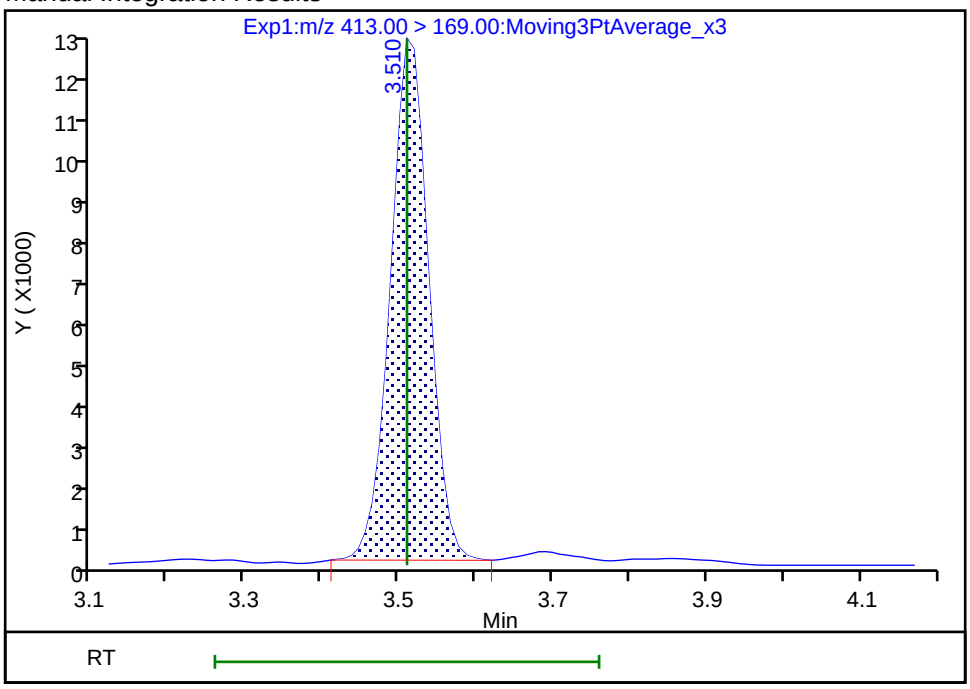
Processing Integration Results

RT: 3.51
Area: 45962
Amount: 0.103022
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 42856
Amount: 0.106888
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:05:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

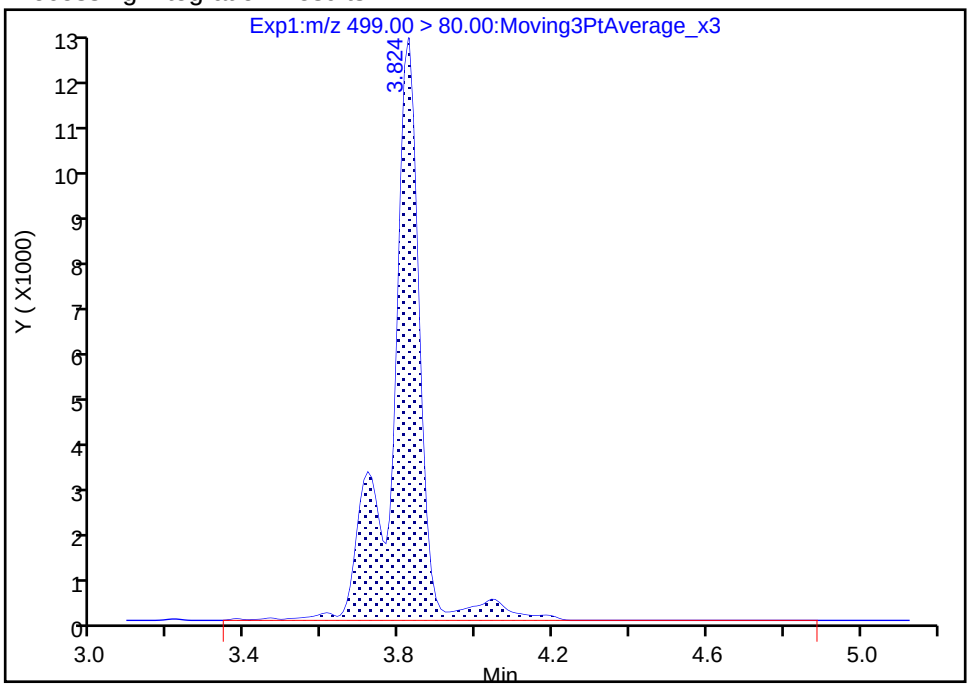
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d				
Injection Date:	08-Jul-2021 15:27:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

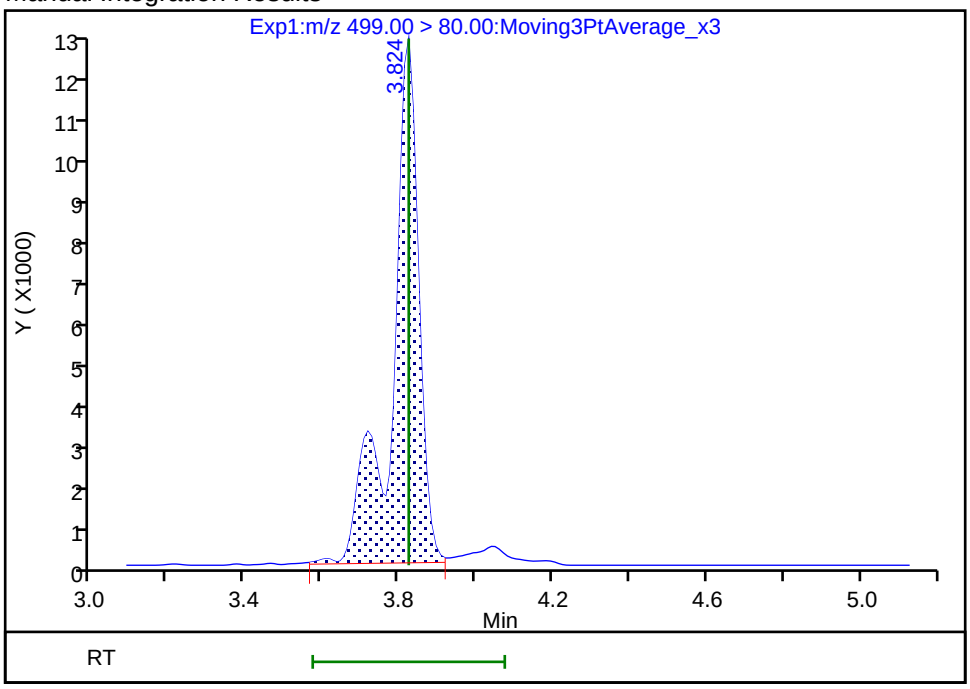
Processing Integration Results

RT: 3.82
Area: 65427
Amount: 0.099028
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 60234
Amount: 0.097133
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:05:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

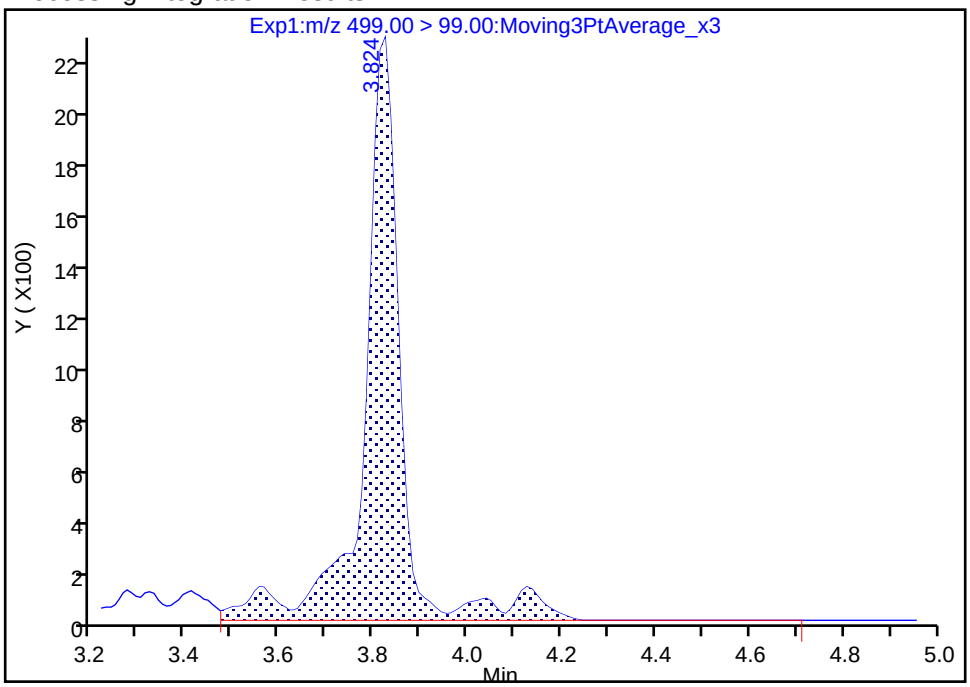
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d				
Injection Date:	08-Jul-2021 15:27:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

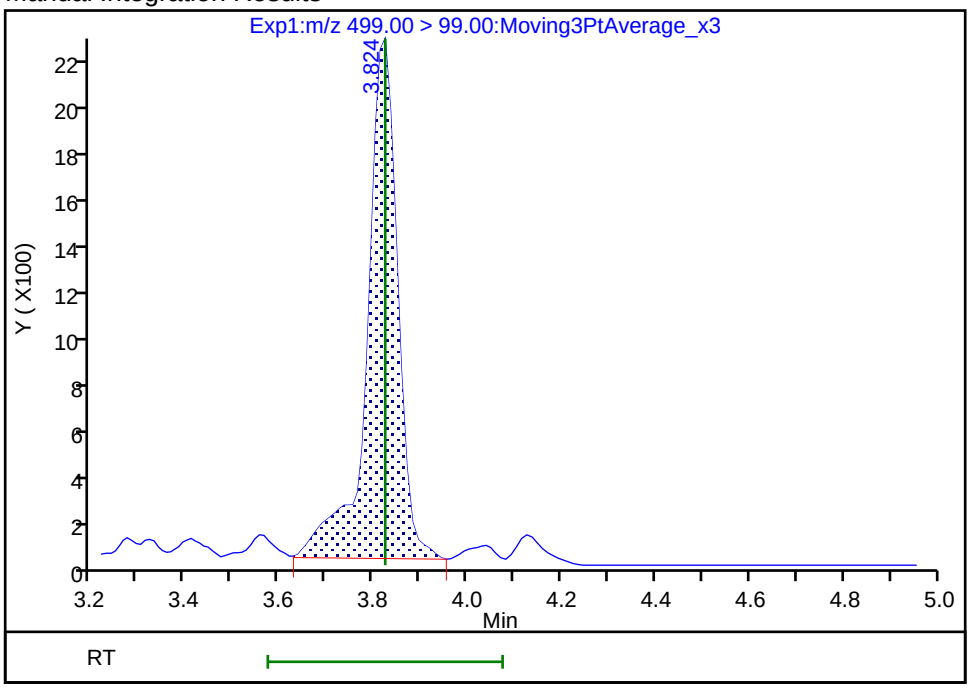
Processing Integration Results

RT: 3.82
Area: 12030
Amount: 0.099028
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 9847
Amount: 0.097133
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:05:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

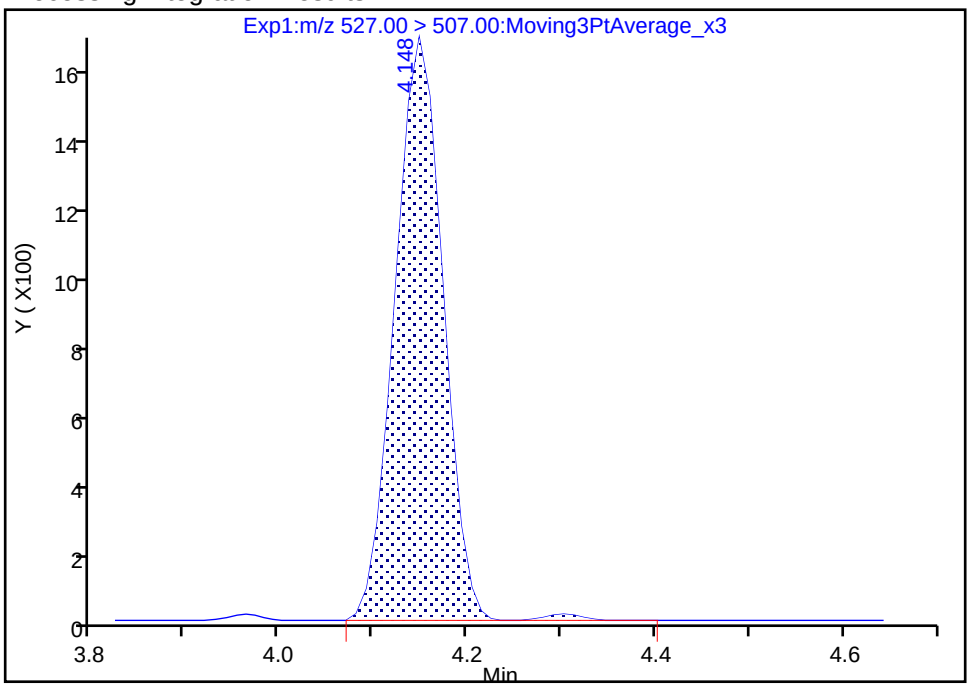
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d
Injection Date: 08-Jul-2021 15:27:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

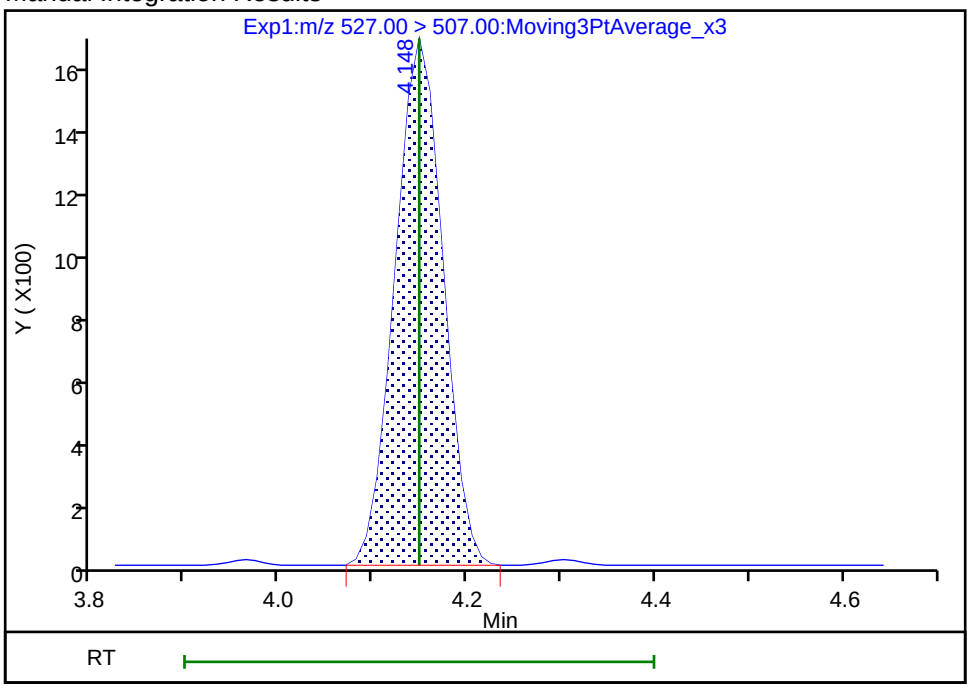
Processing Integration Results

RT: 4.15
Area: 5976
Amount: 0.093052
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 5929
Amount: 0.094468
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:04:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

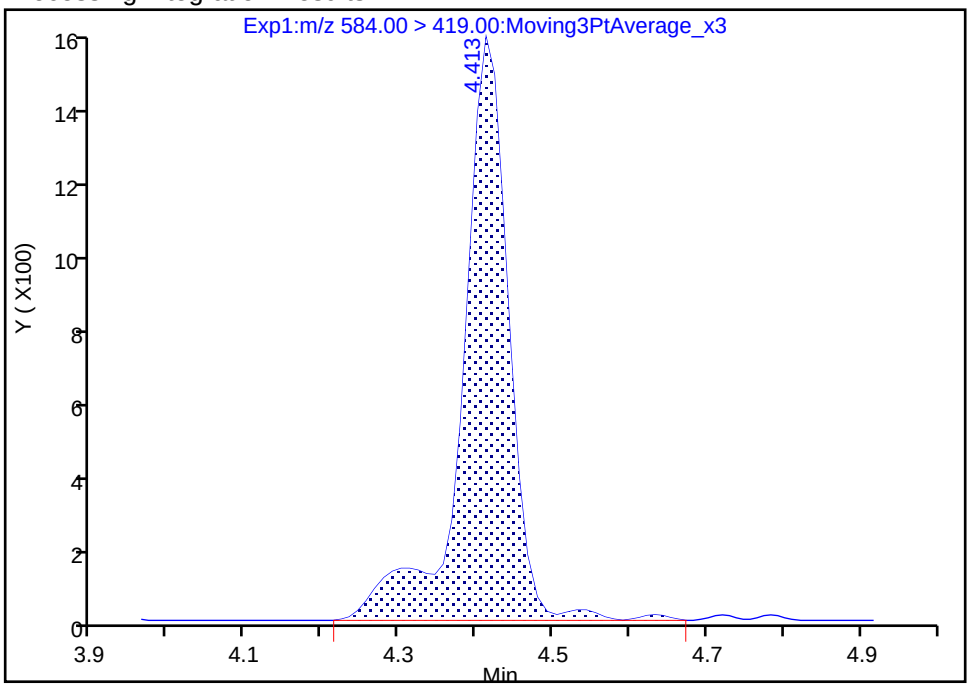
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d				
Injection Date:	08-Jul-2021 15:27:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

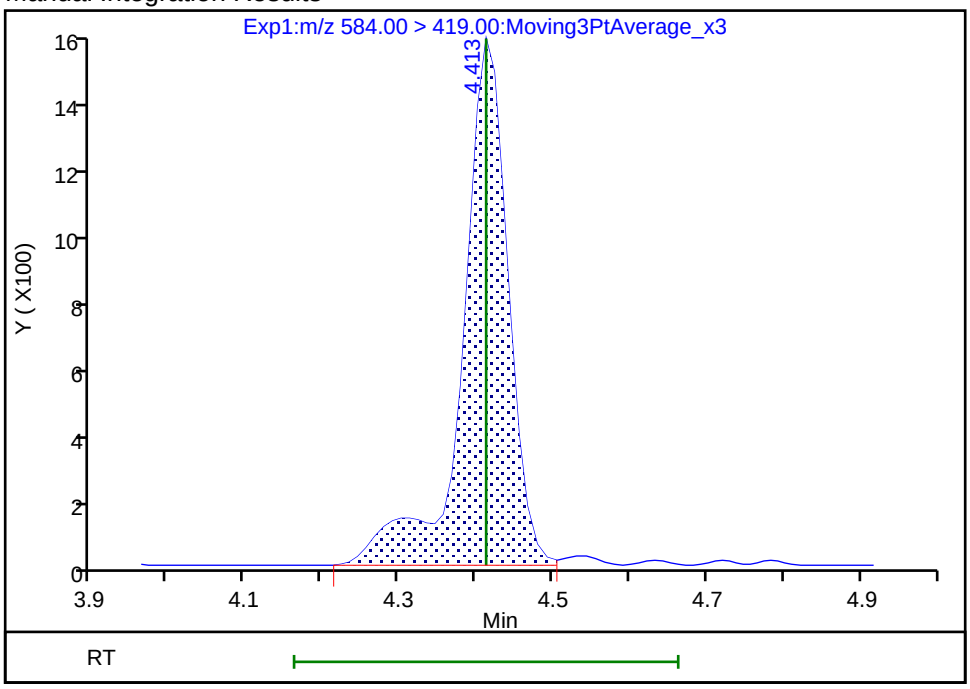
Processing Integration Results

RT: 4.41
Area: 6730
Amount: 0.111197
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 6603
Amount: 0.111246
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:04:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

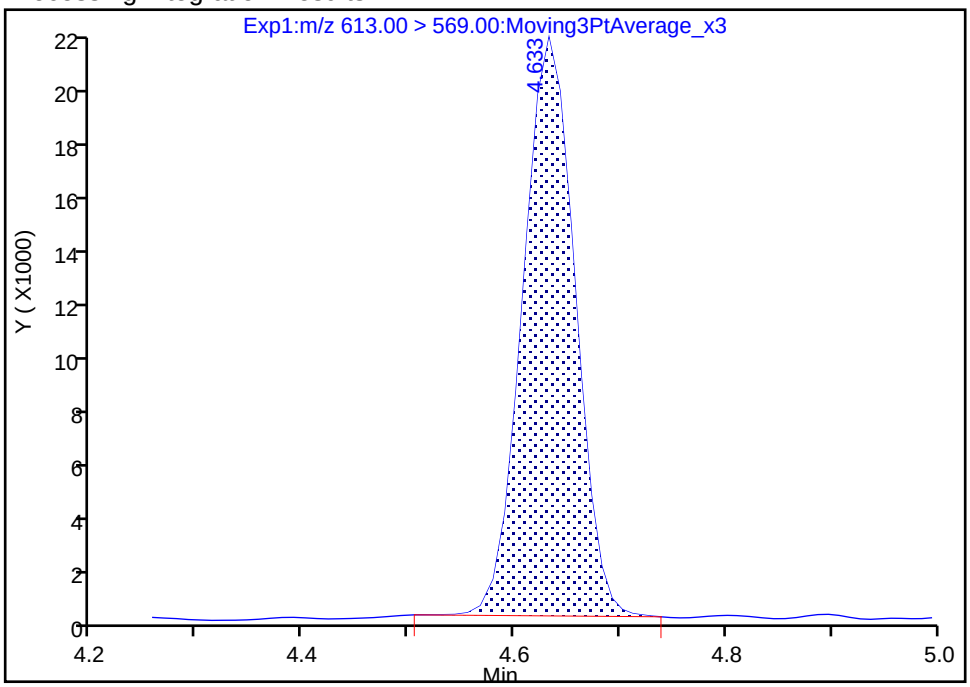
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d
Injection Date: 08-Jul-2021 15:27:19 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

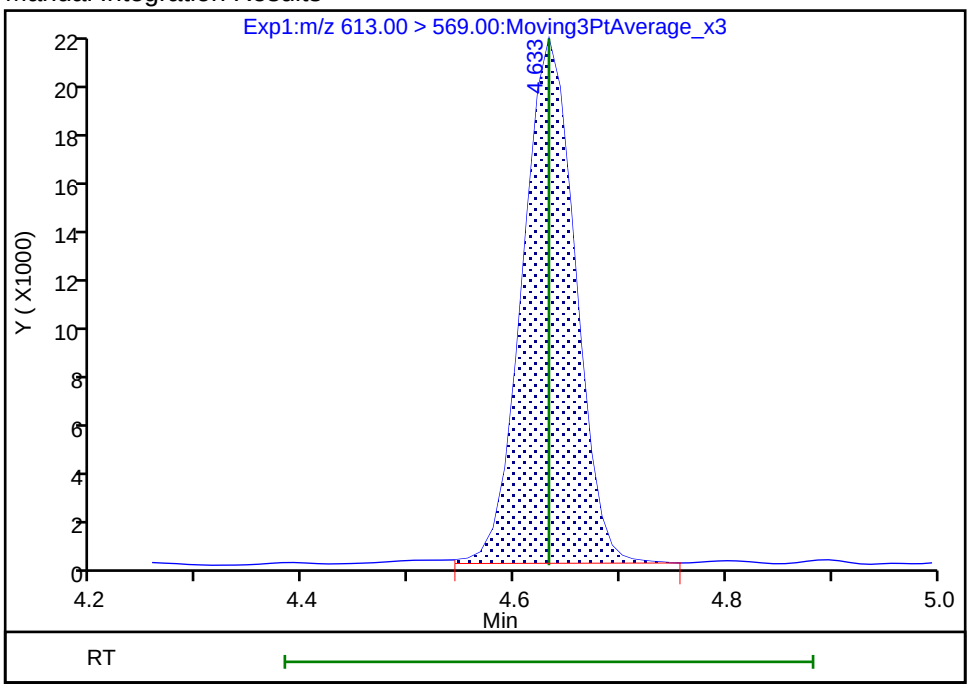
Processing Integration Results

RT: 4.63
Area: 72247
Amount: 0.098766
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 73185
Amount: 0.102429
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:03:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

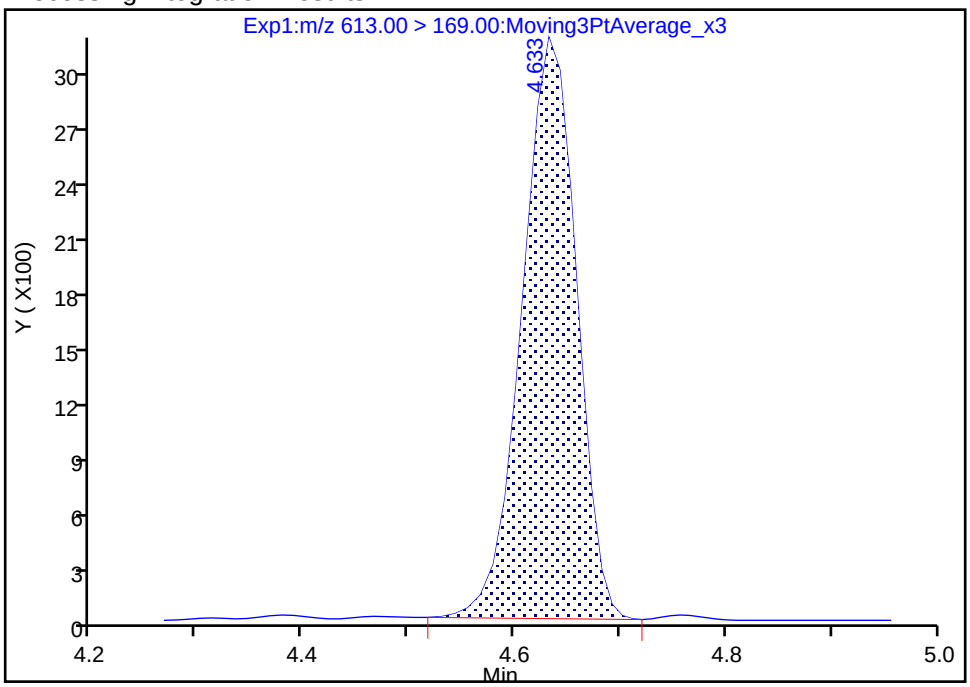
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d				
Injection Date:	08-Jul-2021 15:27:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

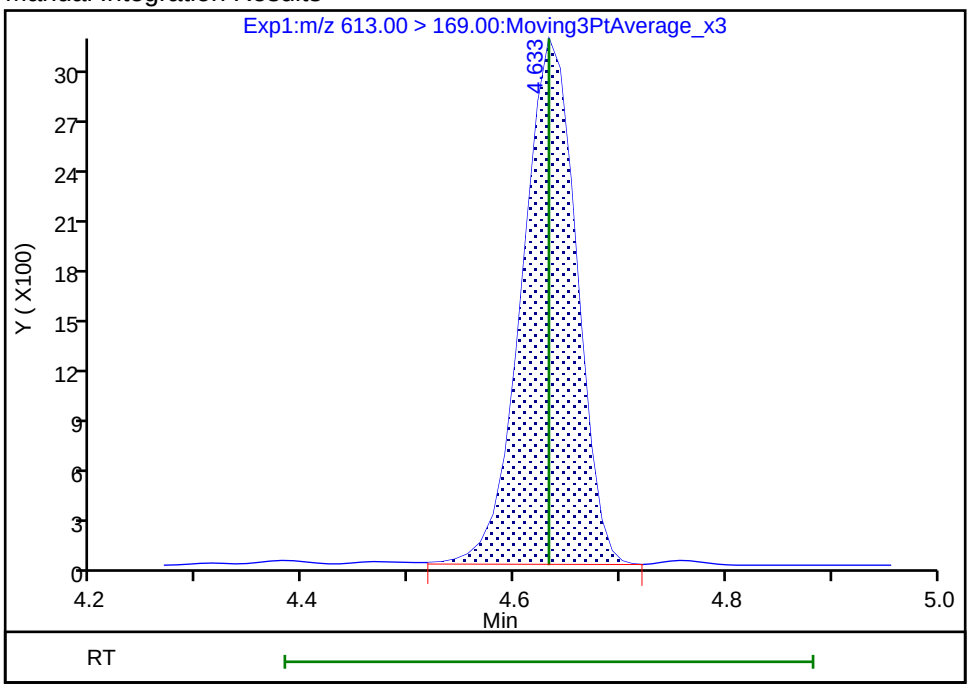
Processing Integration Results

RT: 4.63
Area: 11389
Amount: 0.098766
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 11444
Amount: 0.102429
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:03:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

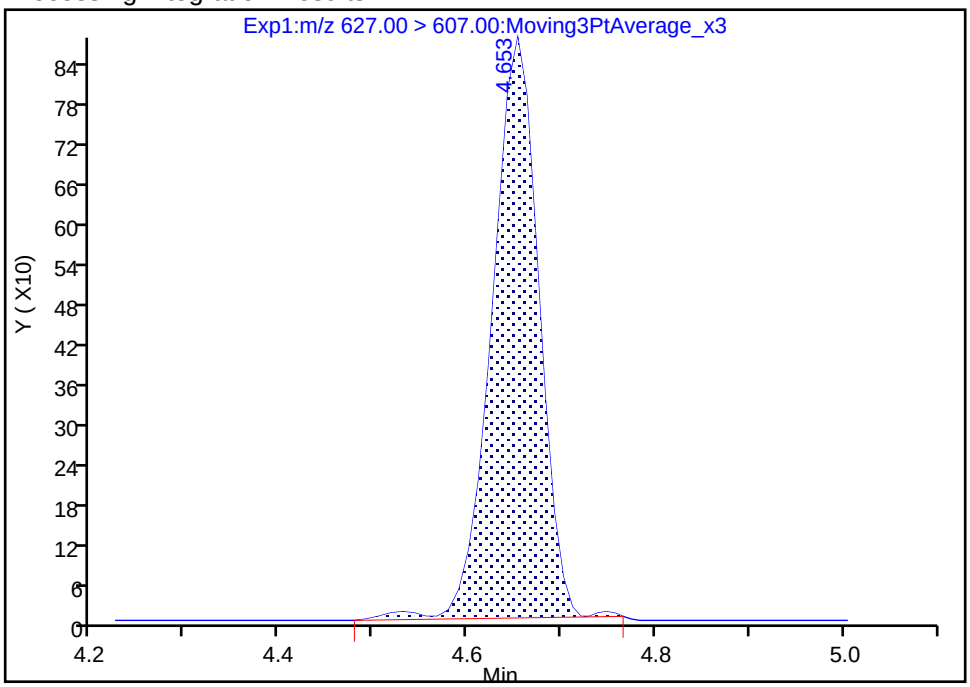
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL03.d				
Injection Date:	08-Jul-2021 15:27:19	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	3
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

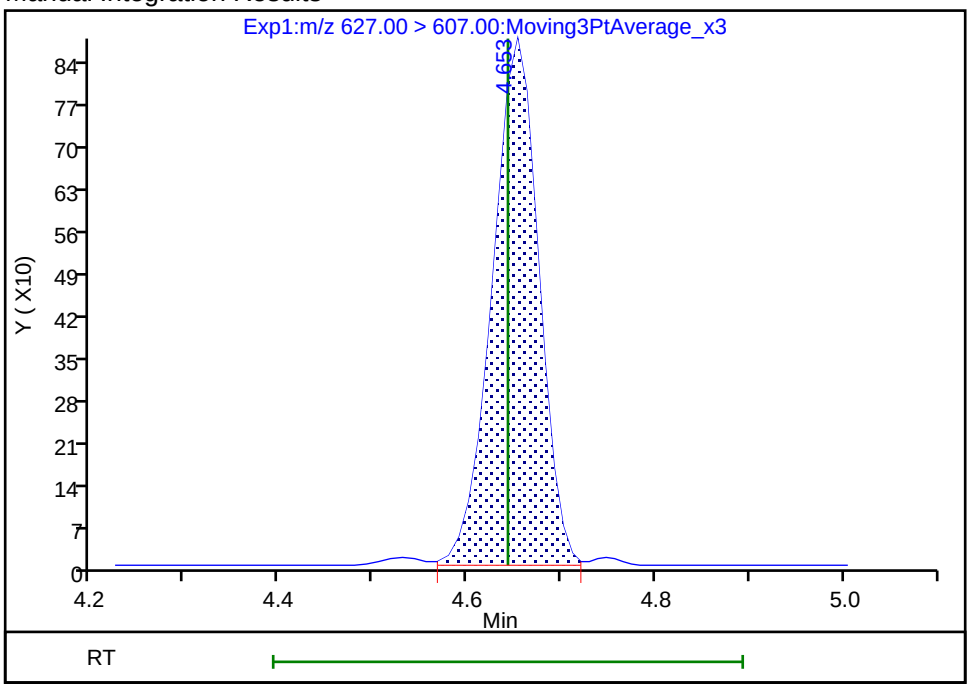
Processing Integration Results

RT: 4.65
Area: 3018
Amount: 0.097580
Amount Units: ng/ml



Manual Integration Results

RT: 4.65
Area: 3004
Amount: 0.094559
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:03:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-Jul-2021 15:35:36 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0046726-004 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 08-Jul-2021 16:35:22 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1667

First Level Reviewer: chirgwinb Date: 08-Jul-2021 16:08:37
Ratio Calibration: Average of Initial Calibration

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	2.109	2.109	0.0	0.601	1543980	1.22		97.5	8910	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.109	0.0	1.000	596123	0.5008		100	92.0	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.426	2.439	-0.013	0.691	1185371	1.24		98.9	3277	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.439	2.439	0.0	1.005	486028	0.4952		99.0	69.6	
D 47 13C3 PFBS										
301.90 > 80.00	2.452	2.452	0.0	0.699	1123749	1.11		95.2	406996	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.452	2.452	0.0	1.000	465334	0.4457	Target=2.20	101	1146	
298.90 > 99.00	2.452	2.452	0.0	1.000	218502		2.13(1.10-3.30)	101	168	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.746	2.758	-0.012	1.000	75904	0.4689		100	1622	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.746	2.758	-0.012	0.782	98008	1.17		100	169	
D 7 13C2 PFHxA										
315.00 > 270.00	2.782	2.795	-0.013	0.793	1275813	1.21		96.6	4048	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.782	2.795	-0.013	1.000	511502	0.4981	Target=13.03	99.6	141	
313.00 > 119.00	2.782	2.795	-0.013	1.000	39892		12.82(6.51-19.54)	99.6	97.6	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.795	2.795	-0.001	0.889	456598	0.4684	Target=3.51	99.9	1125	
349.00 > 99.00	2.795	2.795	-0.001	0.889	122316		3.73(1.75-5.26)	99.9	253	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.892	2.902	-0.010	1.000	90771	0.5377		108	34.6	M

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	2.892	2.902	-0.010	0.824	127609	1.12		89.5	1462	
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.154	0.0	0.898	1259107	1.19		95.1	2841	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.154	3.154	0.0	1.000	526282	0.5053	Target=3.67	101	273	
363.00 > 169.00	3.154	3.154	0.0	1.000	136422		3.86(1.84-5.51)	101	395	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.154	3.154	0.0	1.003	402004	0.4381	Target=4.55	96.3	1249	
399.00 > 99.00	3.143	3.154	-0.011	1.000	86473		4.65(2.28-6.83)	96.3	137	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.143	3.154	-0.011	0.895	937804	1.16		98.3	2704	
77 DONA										
377.00 > 251.00	3.186	3.196	-0.010	0.835	963607	0.4763	Target=2.55	101	1625	
377.00 > 85.00	3.186	3.196	-0.010	0.835	385405		2.50(1.27-3.82)	101	767	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.492	3.501	-0.009	0.916	342333	0.4786	Target=6.75	101	1854	
449.00 > 99.00	3.492	3.501	-0.009	0.916	50062		6.84(3.37-10.12)	101	203	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.501	3.501	0.0	0.997	133182	1.19		100	567	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.492	3.501	-0.009	0.997	55984	0.4816		102	724	
D 14 13C4 PFOA										
417.00 > 372.00	3.510	3.510	0.0	1.000	1353447	1.24		99.1	2871	
* 62 13C2 PFOA										
415.00 > 370.00	3.510	3.510	0.0		1383786	1.25			2893	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.510	3.510	0.0	1.000	568868	0.4992	Target=2.67	99.8	253	
413.00 > 169.00	3.510	3.510	0.0	1.000	212793		2.67(1.33-4.00)	99.8	659	
D 18 13C4 PFOS										
503.00 > 80.00	3.814	3.814	0.0	1.087	686404	1.17		97.5	3123	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.814	3.824	-0.010	1.000	294608	0.4577	Target=6.26	98.6	410	M
499.00 > 99.00	3.814	3.824	-0.010	1.000	45665		6.45(3.13-9.39)	98.6	173	M
D 19 13C5 PFNA										
468.00 > 423.00	3.836	3.836	0.0	1.093	1255153	1.21		96.7	4305	
20 Perfluorononanoic acid										
463.00 > 419.00	3.836	3.847	-0.011	1.000	493341	0.5081	Target=6.99	102	189	
463.00 > 169.00	3.836	3.847	-0.011	1.000	70063		7.04(3.49-10.48)	102	621	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.973	3.983	-0.010	1.042	328054	0.4660		100	1913	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.104	4.104	0.0	1.076	228489	0.4794	Target=3.17	99.9	1227	
549.00 > 99.00	4.104	4.104	0.0	1.076	74501		3.07(1.58-4.75)	99.9	336	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.137	0.0	1.179	1154945	1.23		98.1	3118	

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	4.137	4.137	0.0	1.000	482203	0.4903	Target=8.56	98.1	520	
513.00 > 169.00	4.137	4.137	0.0	1.000	54034		8.92(4.28-12.83)	98.1	378	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.148	4.148	0.0	1.000	34569	0.5119		107	922	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.148	4.148	0.0	1.182	162319	1.22		102	873	
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.214	0.0	1.201	1306977	1.26		101	4291	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.214	4.214	0.0	1.000	503727	0.4926		98.5	1141	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.280	0.0	1.219	85387	1.23		98.6	617	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.280	4.280	0.0	1.000	26298	0.4631		92.6	103	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.369	4.369	0.0	1.145	175429	0.4822	Target=2.85	100	2590	
599.00 > 99.00	4.369	4.369	0.0	1.145	61931		2.83(1.42-4.27)	100	478	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.402	4.402	0.0	1.000	351453	0.5045	Target=7.99	101	568	
563.00 > 169.00	4.402	4.402	0.0	1.000	40795		8.62(4.00-11.99)	101	575	
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.402	0.0	1.254	900133	1.21		96.4	3007	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.413	0.0	1.257	85934	1.19		95.4	817	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.413	0.0	1.000	27857	0.4783		95.7	416	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.492	4.492	0.0	1.178	258412	0.4446		94.4	1624	
D 36 13C2 PFDoA										
615.00 > 570.00	4.632	4.633	0.0	1.320	898805	1.16		93.1	2782	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.632	4.633	0.0	1.000	389282	0.5363	Target=6.41	107	154	
613.00 > 169.00	4.632	4.633	0.0	1.000	59480		6.54(3.21-9.62)	107	764	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.653	4.643	0.010	1.122	17511	0.5123		106	333	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.801	4.801	0.0	1.259	58923	0.4760	Target=0.46	98.4	1240	
699.00 > 99.00	4.801	4.801	0.0	1.259	126698		0.47(0.23-0.69)	98.4	1331	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.845	4.845	0.0	1.046	316613	0.5060	Target=4.67	101	166	
663.00 > 169.00	4.845	4.845	0.0	1.046	68822		4.60(2.33-7.00)	101	1006	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.034	5.034	0.0	1.434	737942	1.22		97.5	3705	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.034	5.034	0.0	1.000	49783	0.4907	Target=1.01	98.1	901	
713.00 > 219.00	5.034	5.034	0.0	1.000	50888		0.98(0.51-1.52)	98.1	1060	

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	5.383	5.383	0.0	1.000	287844	0.5283	Target=4.09	106	189	
813.00 > 169.00	5.383	5.383	0.0	1.000	69773		4.13(2.05-6.14)	106	1242	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.383	5.383	0.0	1.534	714756	1.16		92.8	2854	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.701	5.701	0.0	1.059	253634	0.5240	Target=3.78	105	228	
913.00 > 169.00	5.701	5.701	0.0	1.059	64462		3.93(1.89-5.67)	105	812	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC3_00010 Amount Added: 100.00 Units: uL

Report Date: 08-Jul-2021 16:35:22 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d

Injection Date: 08-Jul-2021 15:35:36 Instrument ID: LC812

Lims ID: IC

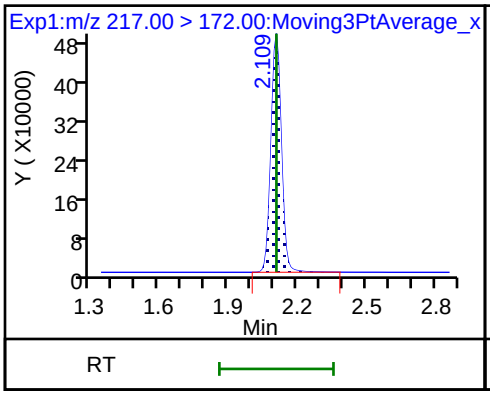
Client ID:

Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4

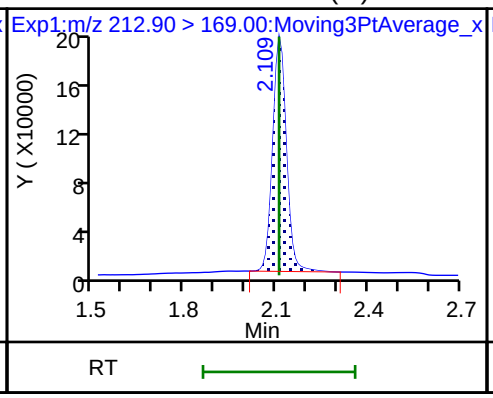
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

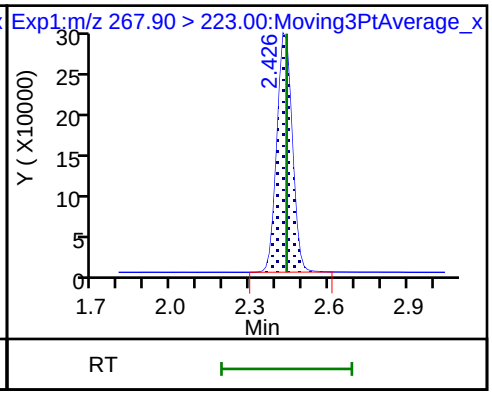
D 1 13C4 PFBA



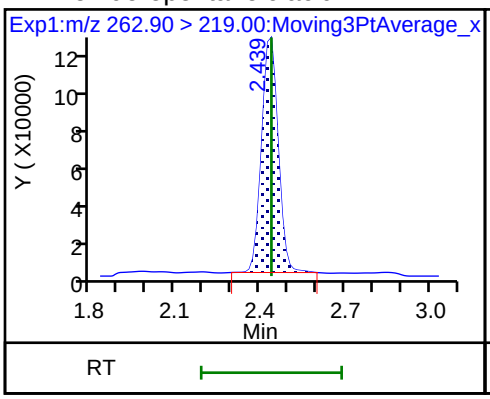
2 Perfluorobutanoic acid (M)



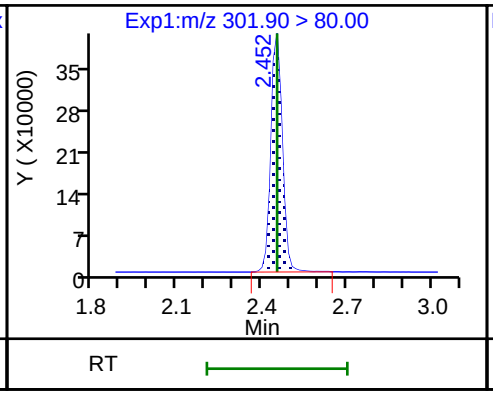
D 3 13C5 PFPeA



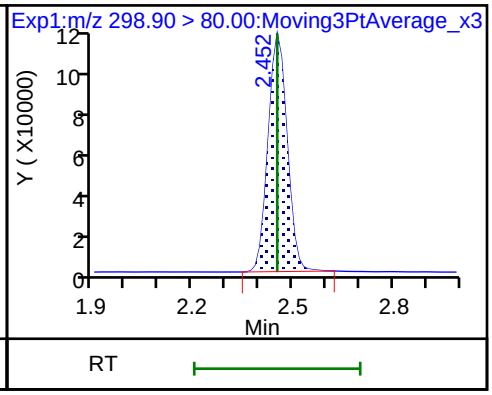
4 Perfluoropentanoic acid



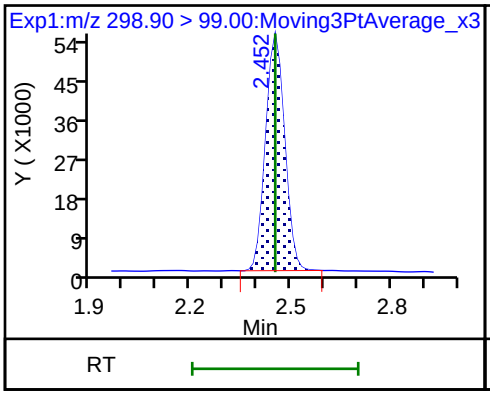
D 47 13C3 PFBS



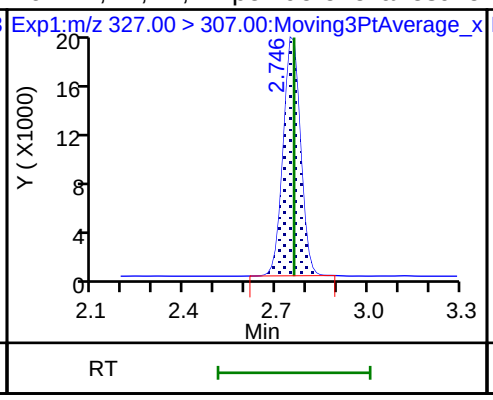
5 Perfluorobutanesulfonic acid



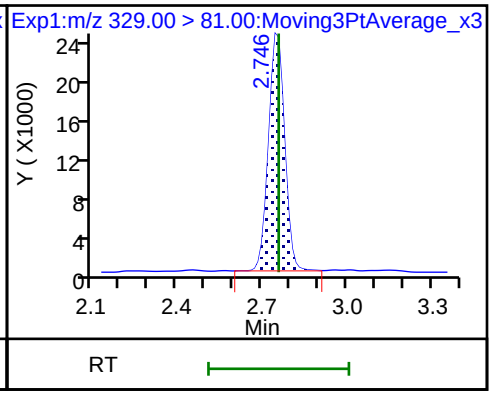
5 Perfluorobutanesulfonic acid



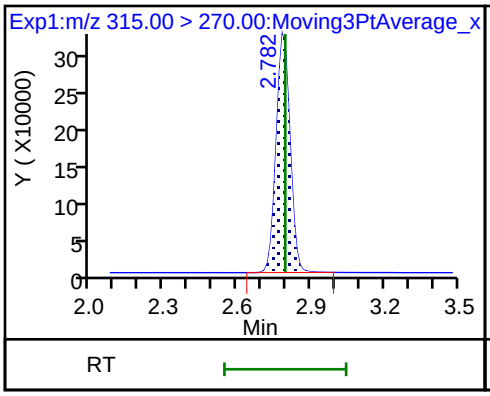
61 1H,1H,2H,2H-perfluorohexanesulfo



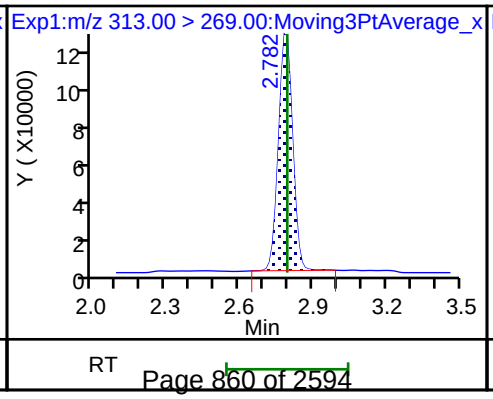
D 60 M2-4:2 FTS



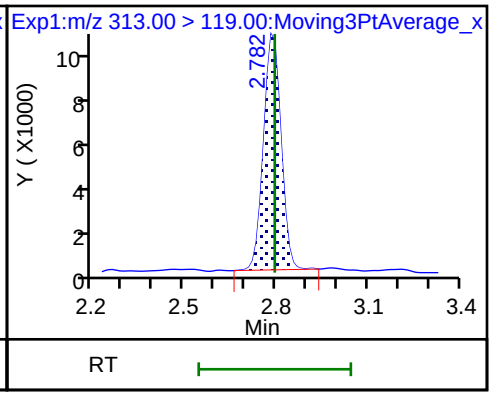
D 7 13C2 PFHxA



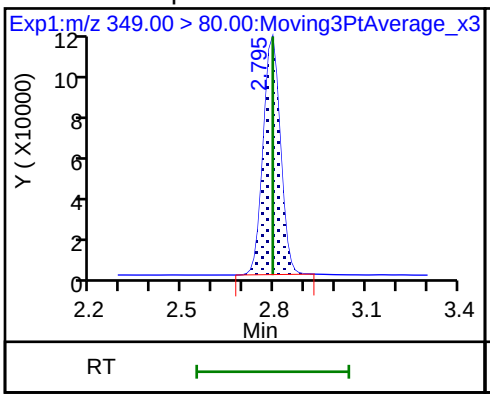
6 Perfluorohexanoic acid



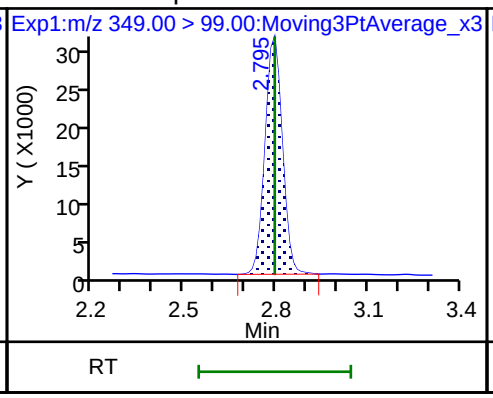
6 Perfluorohexanoic acid



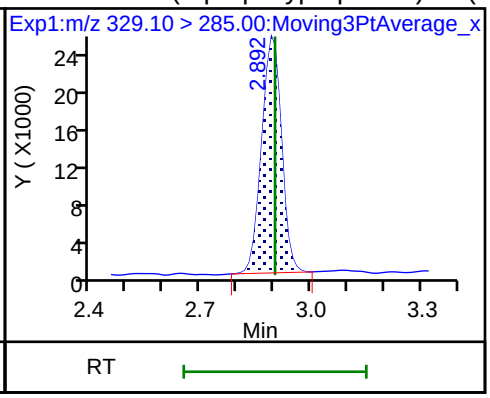
70 Perfluoropentanesulfonic acid



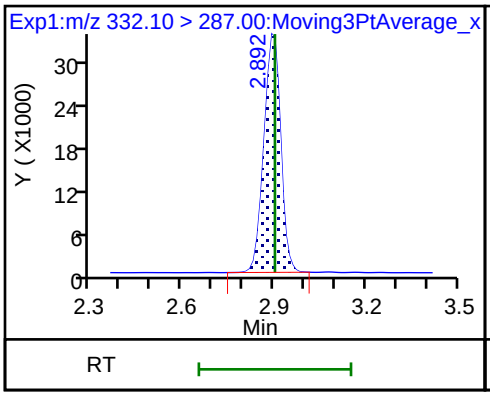
70 Perfluoropentanesulfonic acid



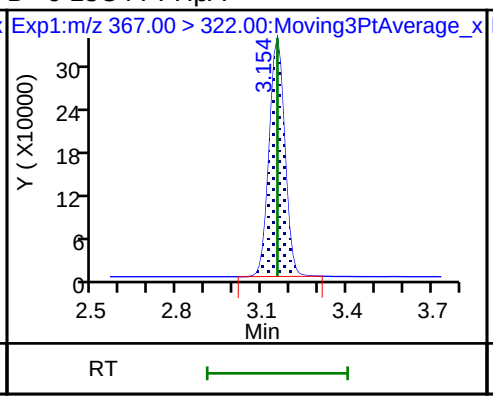
67 Perfluoro(2-propoxypropanoic) ac (M)



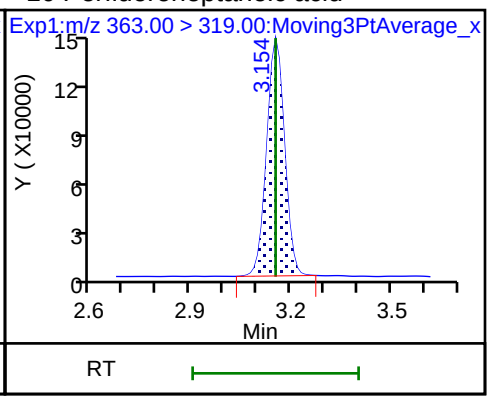
D 64 13C3 HFPO-DA



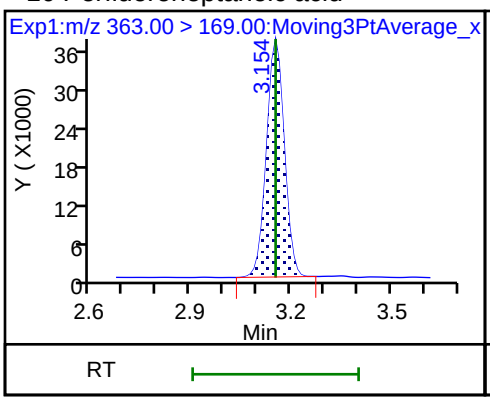
D 9 13C4 PFHpA



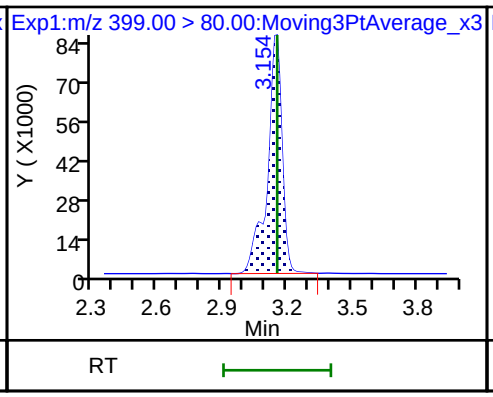
10 Perfluoroheptanoic acid



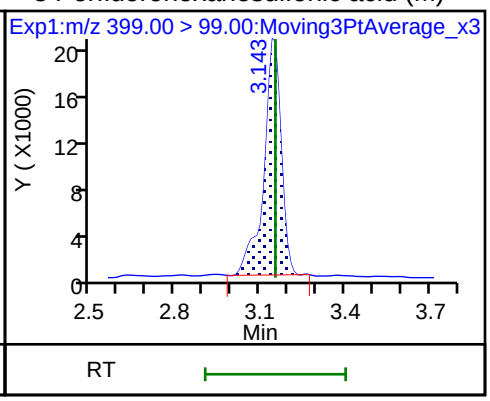
10 Perfluoroheptanoic acid



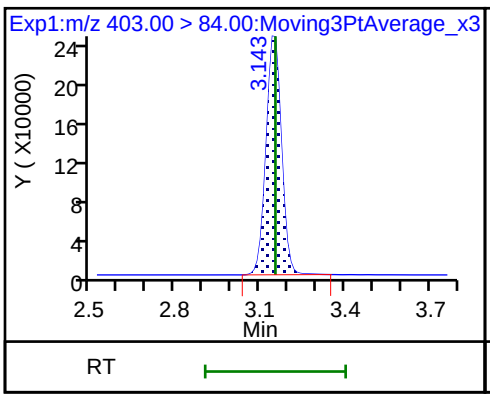
8 Perfluorohexanesulfonic acid



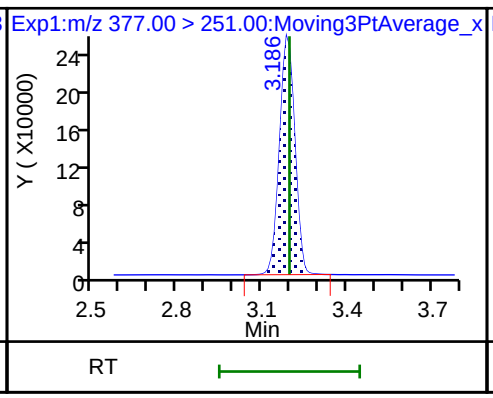
8 Perfluorohexanesulfonic acid (M)



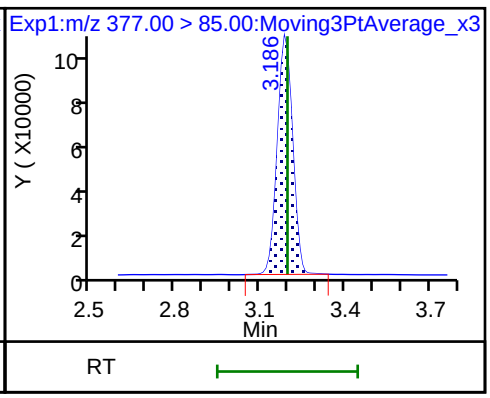
D 11 18O2 PFHxS



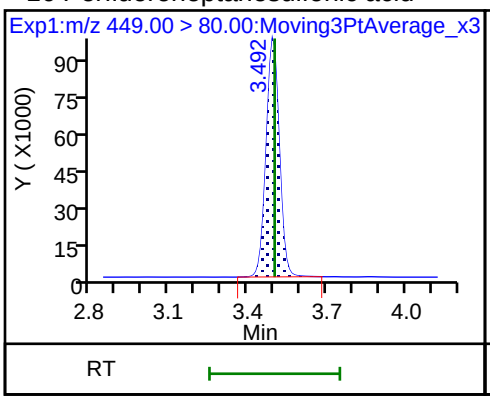
77 DONA



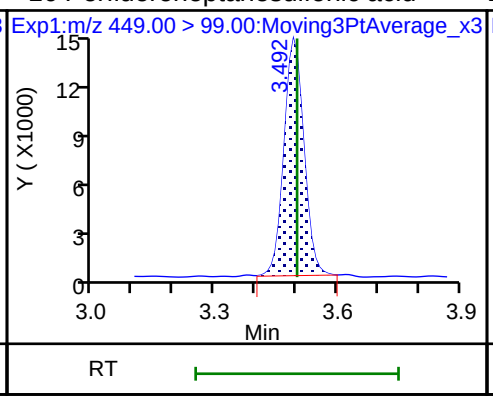
77 DONA



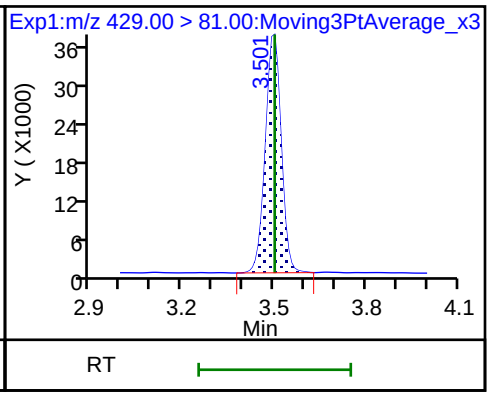
16 Perfluoroheptanesulfonic acid



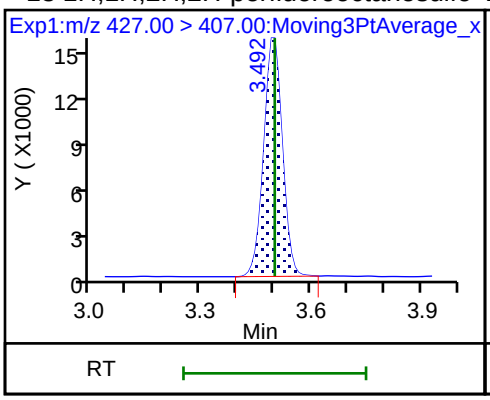
16 Perfluoroheptanesulfonic acid



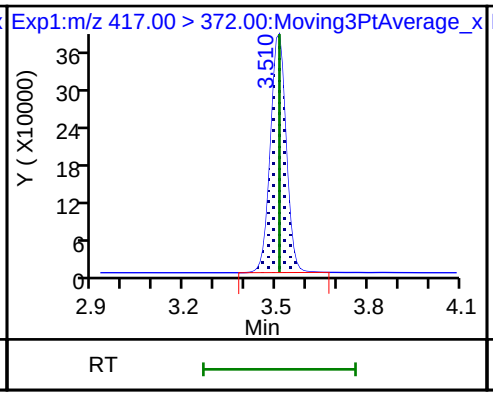
D 12 M2-6:2 FTS



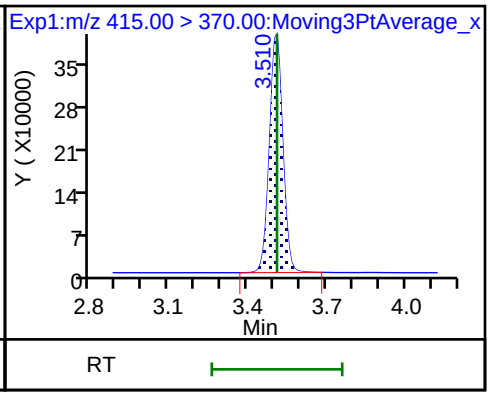
13 1H,1H,2H,2H-perfluorooctanesulfo



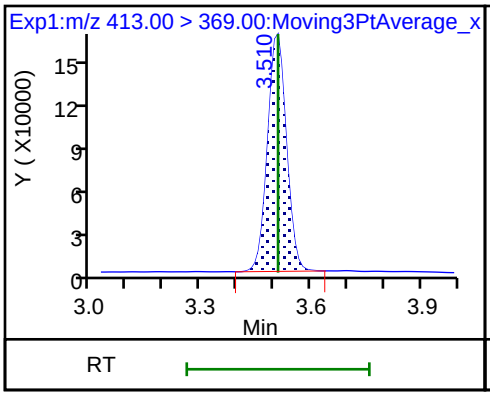
D 14 13C4 PFOA



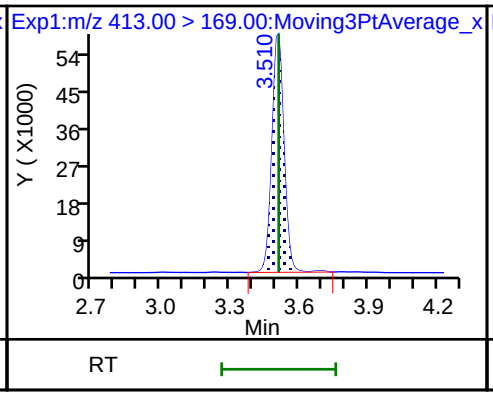
* 62 13C2 PFOA



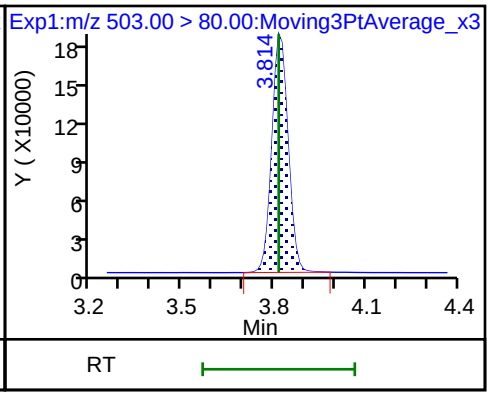
15 Perfluorooctanoic acid



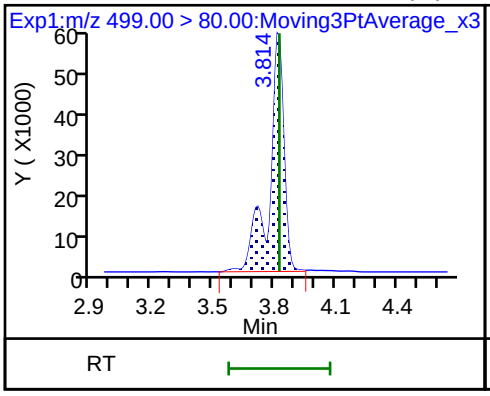
15 Perfluorooctanoic acid



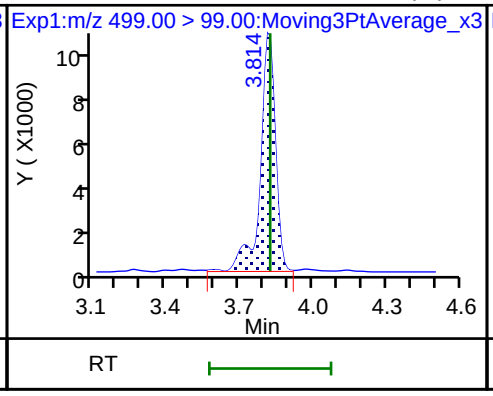
D 18 13C4 PFOS



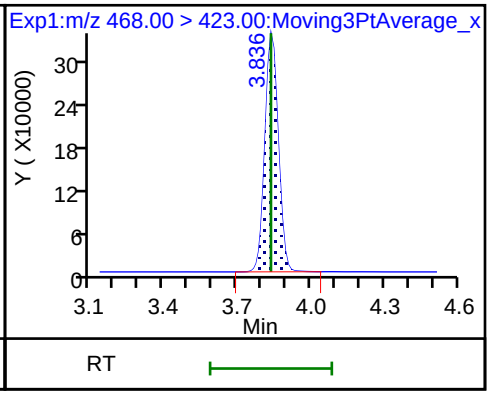
17 Perfluorooctanesulfonic acid (M)



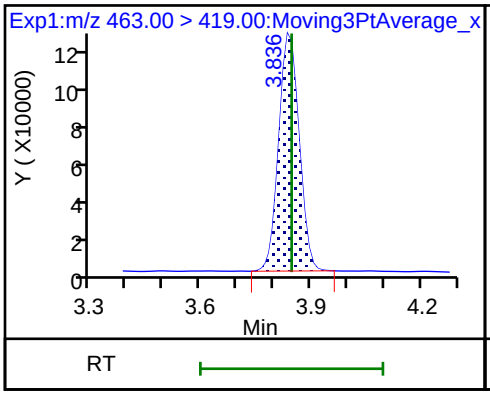
17 Perfluorooctanesulfonic acid (M)



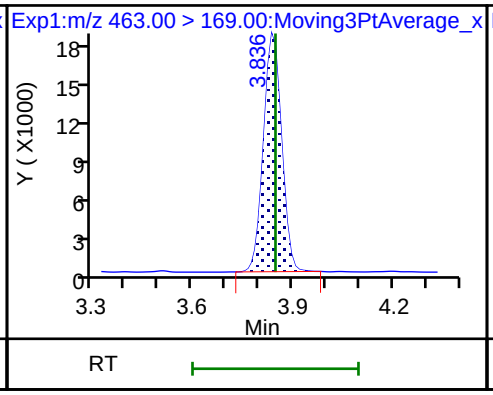
D 19 13C5 PFNA



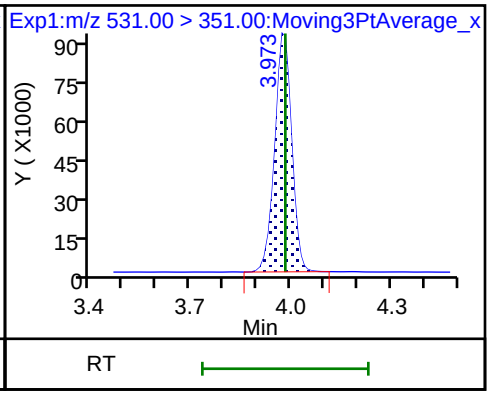
20 Perfluorononanoic acid



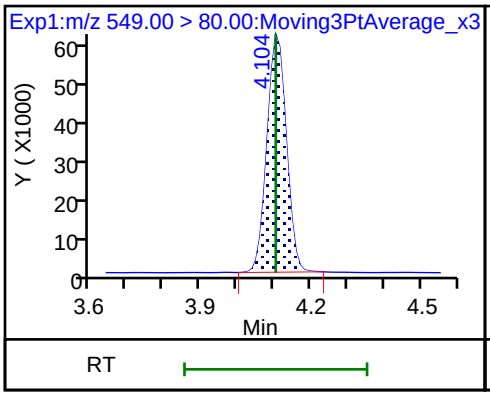
20 Perfluorononanoic acid



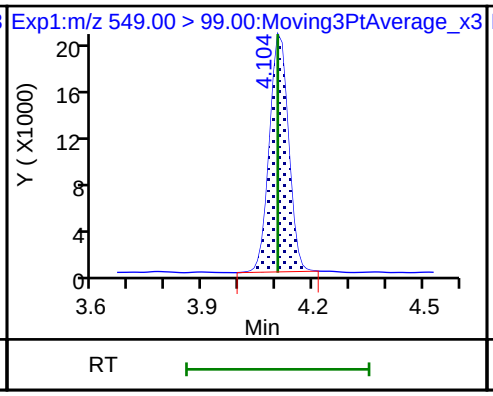
69 9-Chlorohexadecafluoro-3-oxanona



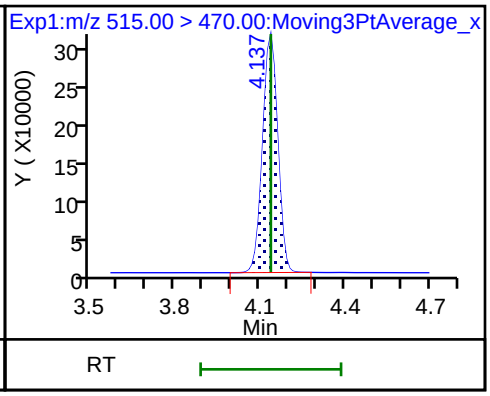
68 Perfluorononanesulfonic acid



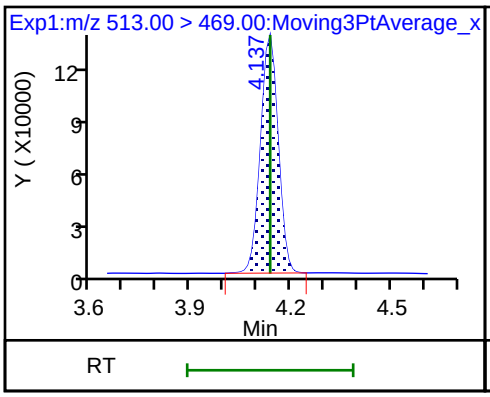
68 Perfluorononanesulfonic acid



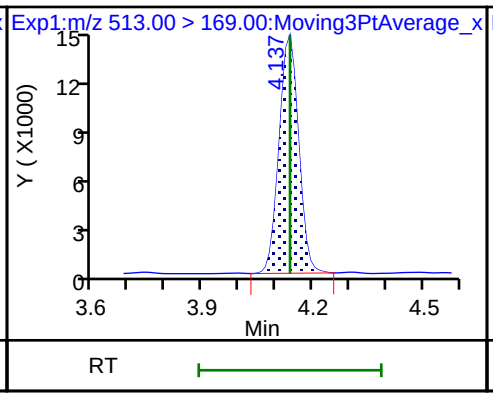
D 23 13C2 PFDA



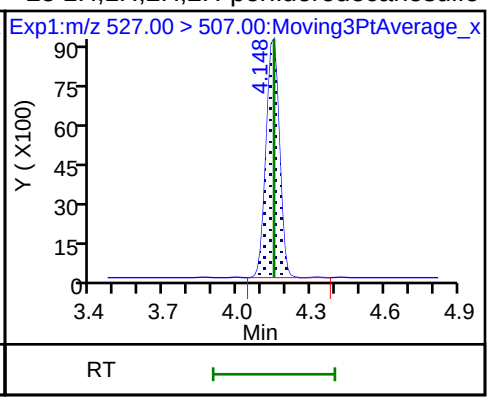
24 Perfluorodecanoic acid



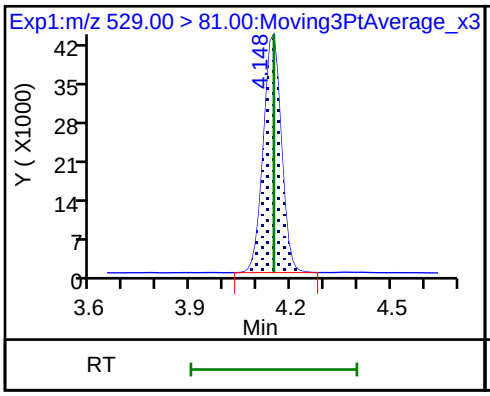
24 Perfluorodecanoic acid



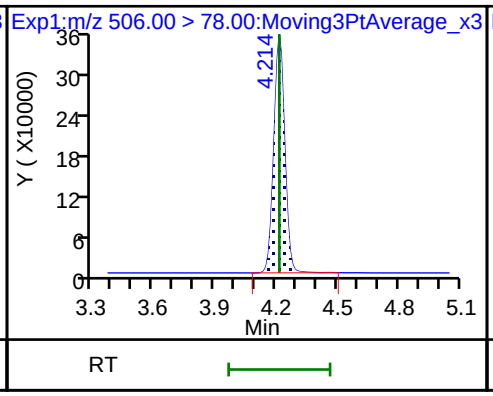
25 1H,1H,2H,2H-perfluorodecanesulfo



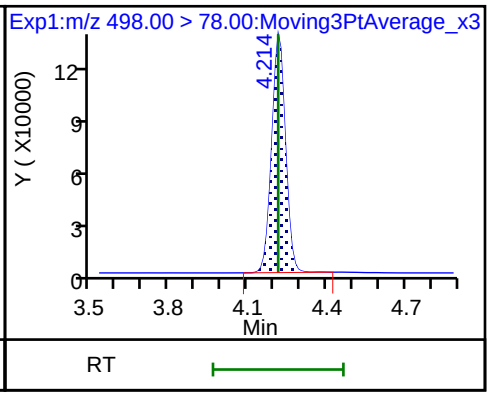
D 26 M2-8:2 FTS



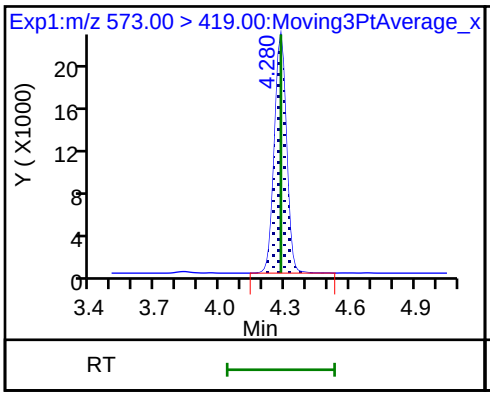
D 21 13C8 FOSA



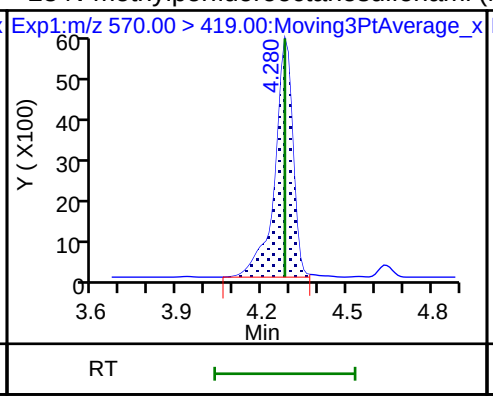
22 Perfluorooctanesulfonamide



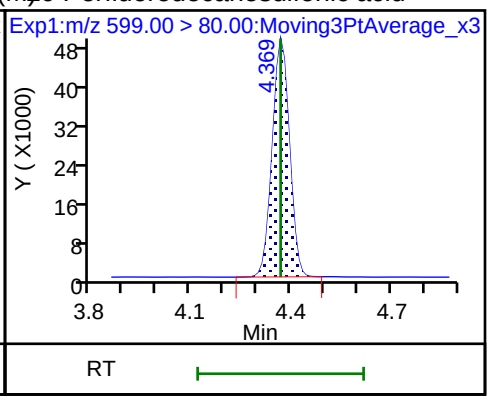
D 27 d3-NMeFOSAA



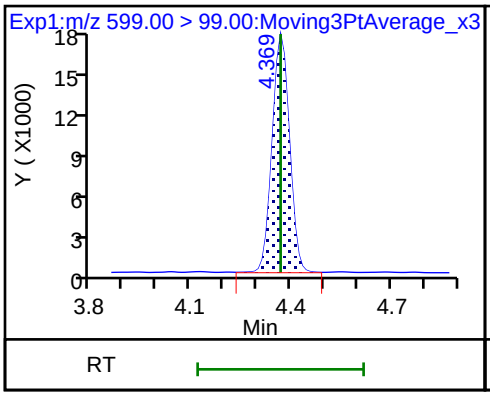
28 N-methylperfluorooctanesulfonami (M)



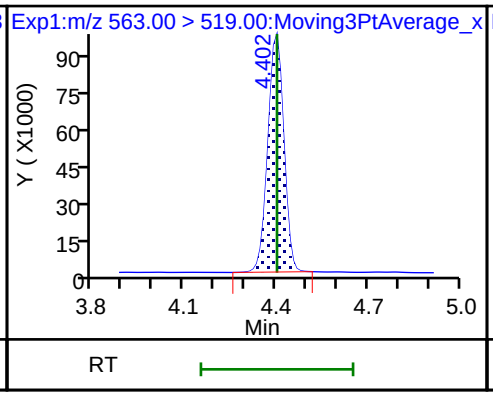
29 Perfluorodecanesulfonic acid



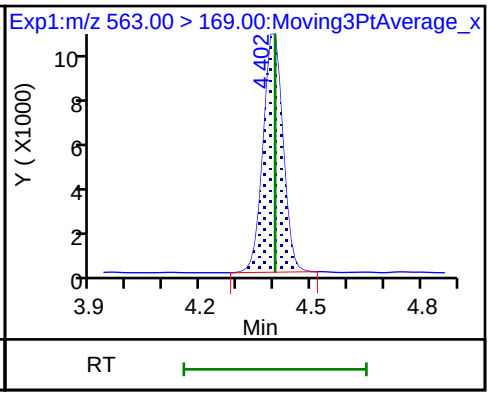
29 Perfluorodecanesulfonic acid



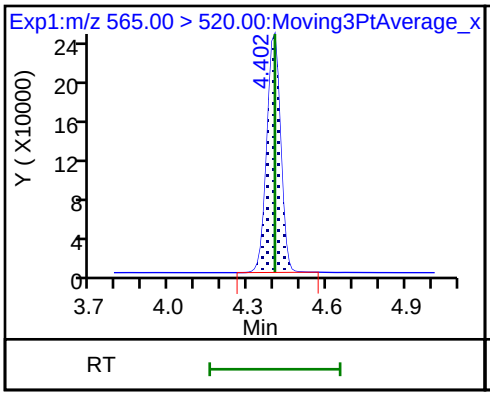
31 Perfluoroundecanoic acid



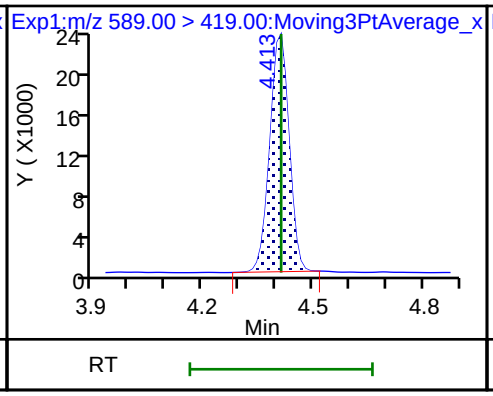
31 Perfluoroundecanoic acid



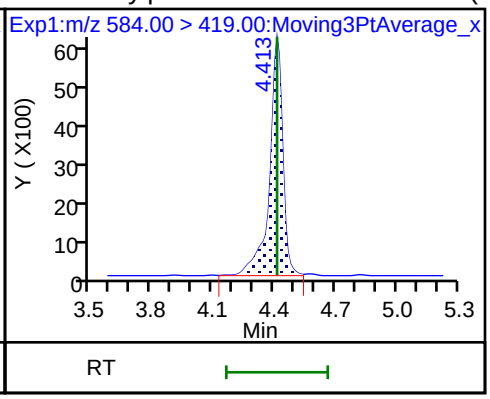
D 30 13C2 PFUnA



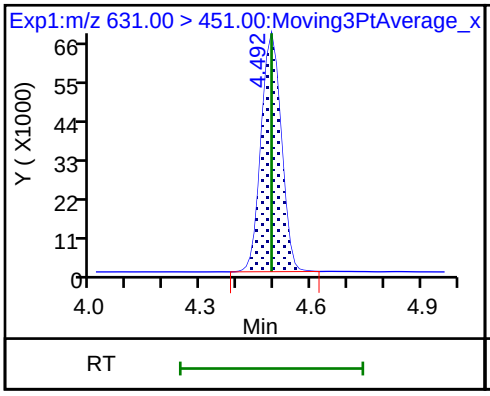
D 32 d5-NEtFOSAA



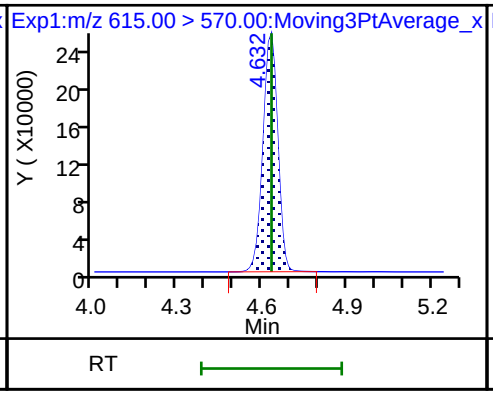
33 N-ethylperfluorooctanesulfonamid (M)



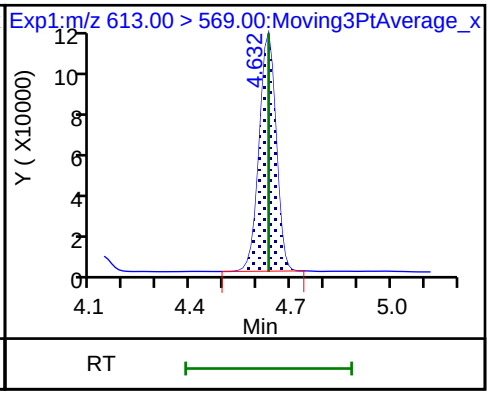
66 11-Chloroeicosafluoro-3-oxaundec



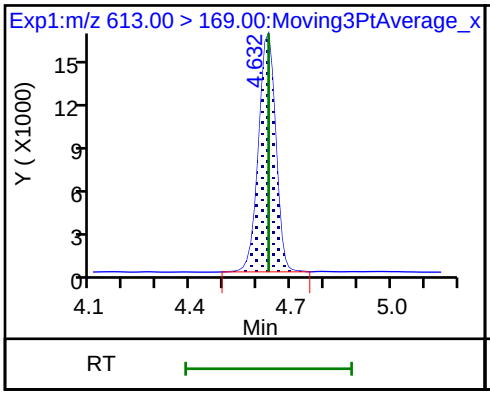
D 36 13C2 PFDoA



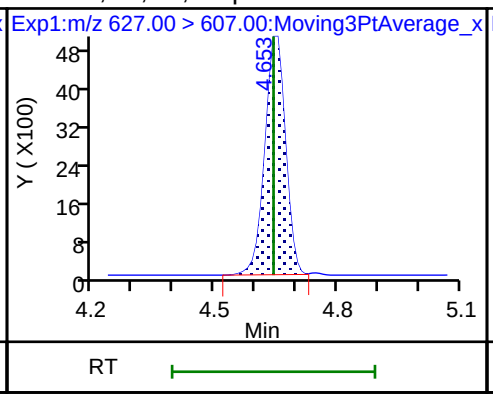
37 Perfluorododecanoic acid



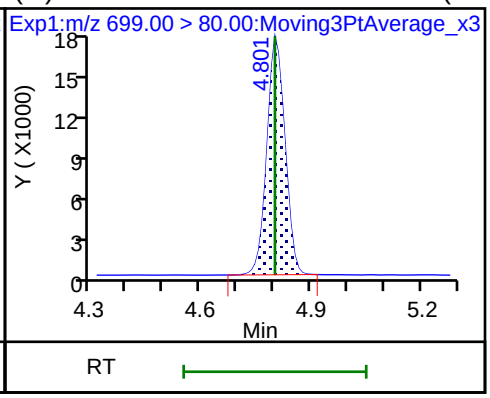
37 Perfluorododecanoic acid



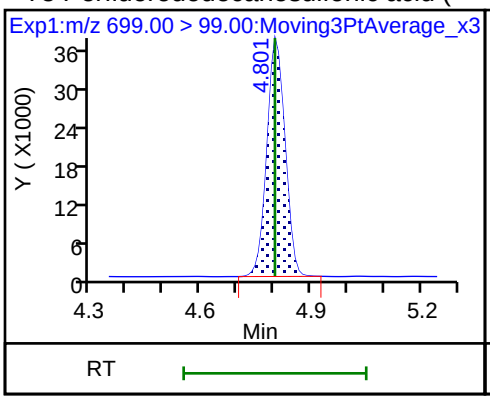
74 1H,1H,2H,2H-perfluorododecanesul (M)



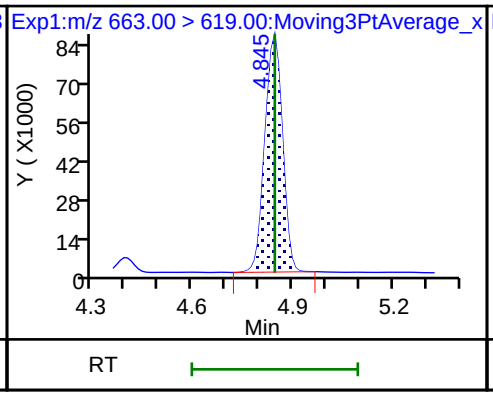
75 Perfluorododecanesulfonic acid (



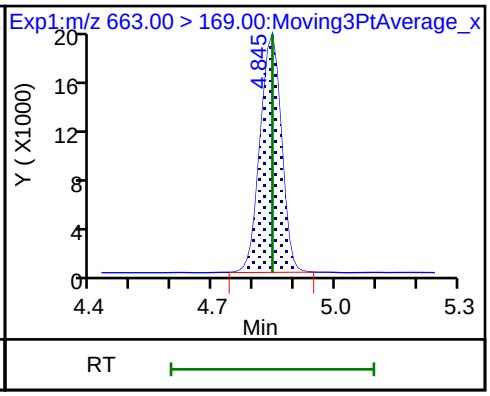
75 Perfluorododecanesulfonic acid (



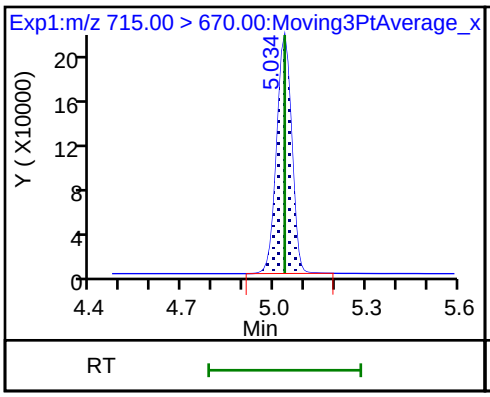
41 Perfluorotridecanoic acid



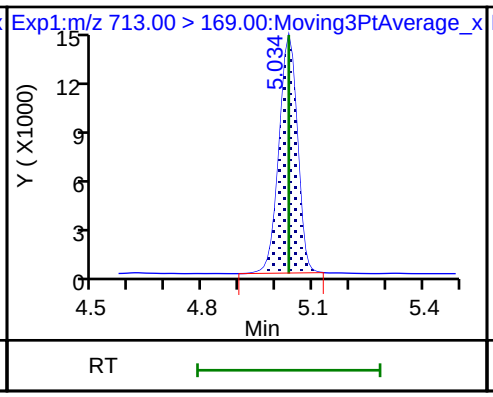
41 Perfluorotridecanoic acid



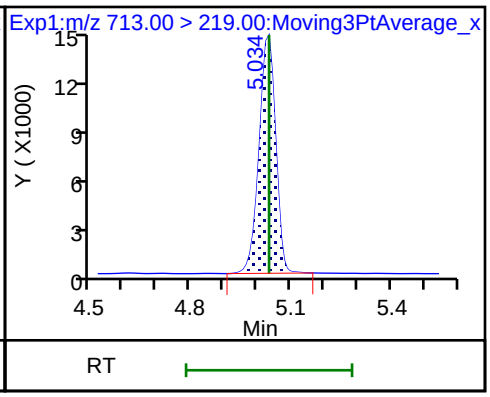
D 43 13C2 PFTeDA



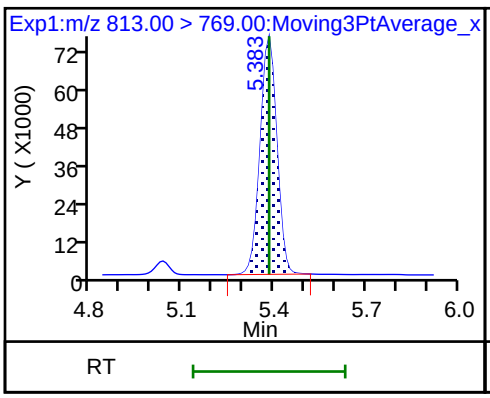
42 Perfluorotetradecanoic acid



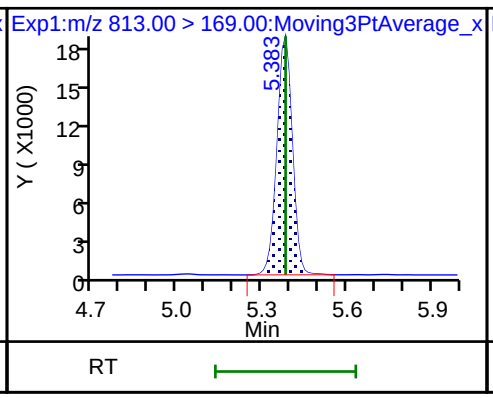
42 Perfluorotetradecanoic acid



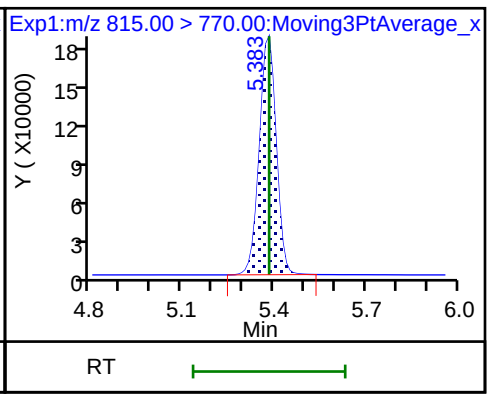
45 Perfluorohexadecanoic acid



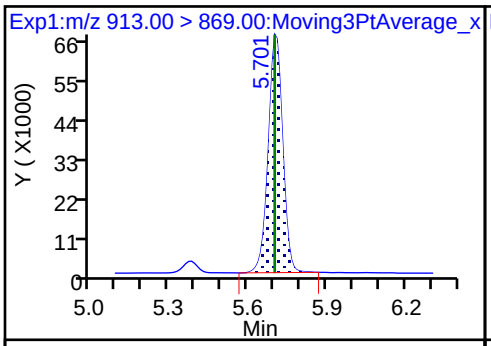
45 Perfluorohexadecanoic acid



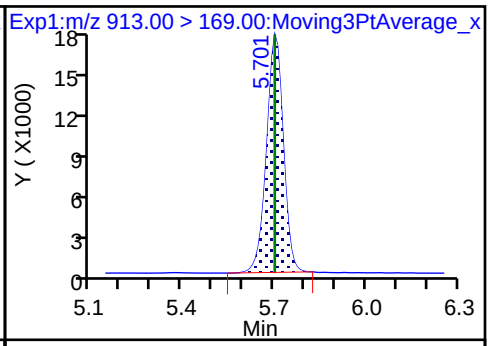
D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

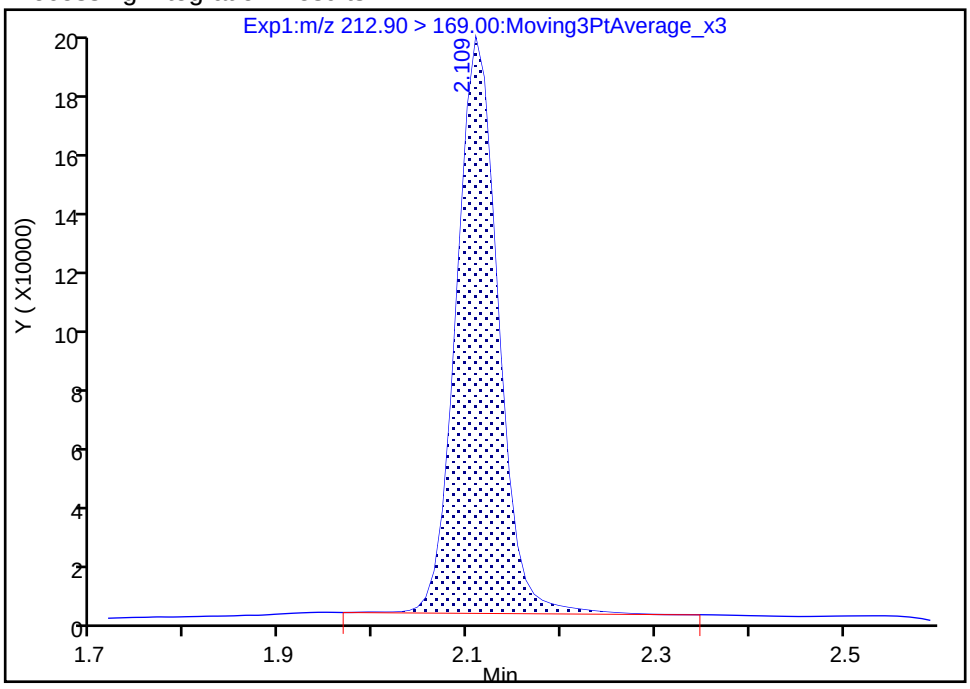
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d				
Injection Date:	08-Jul-2021 15:35:36	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

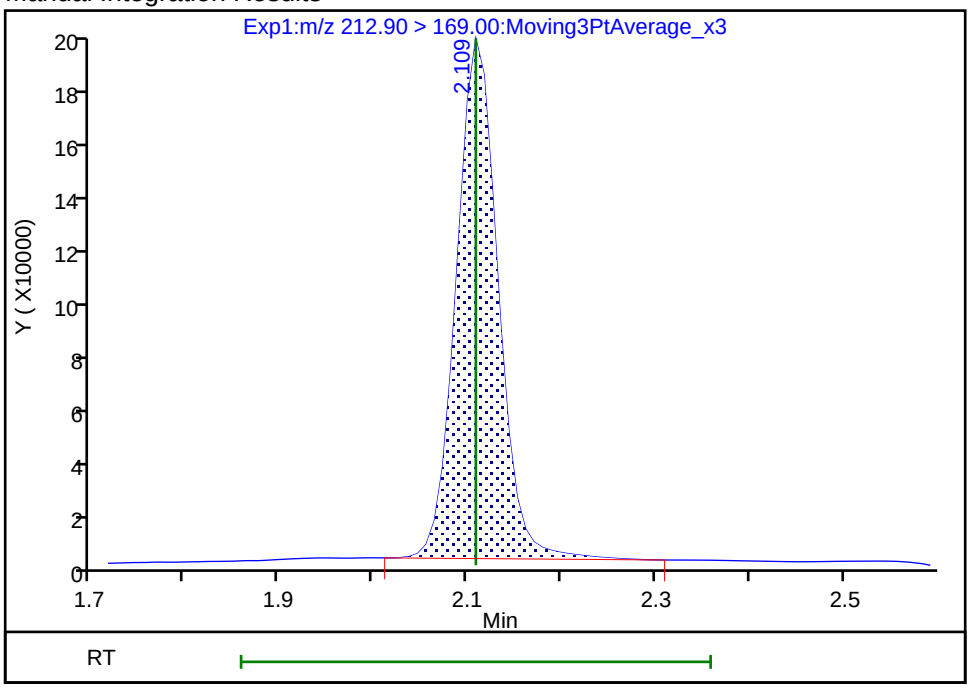
Processing Integration Results

RT: 2.11
Area: 598328
Amount: 0.502310
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 596123
Amount: 0.500768
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:20:09

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

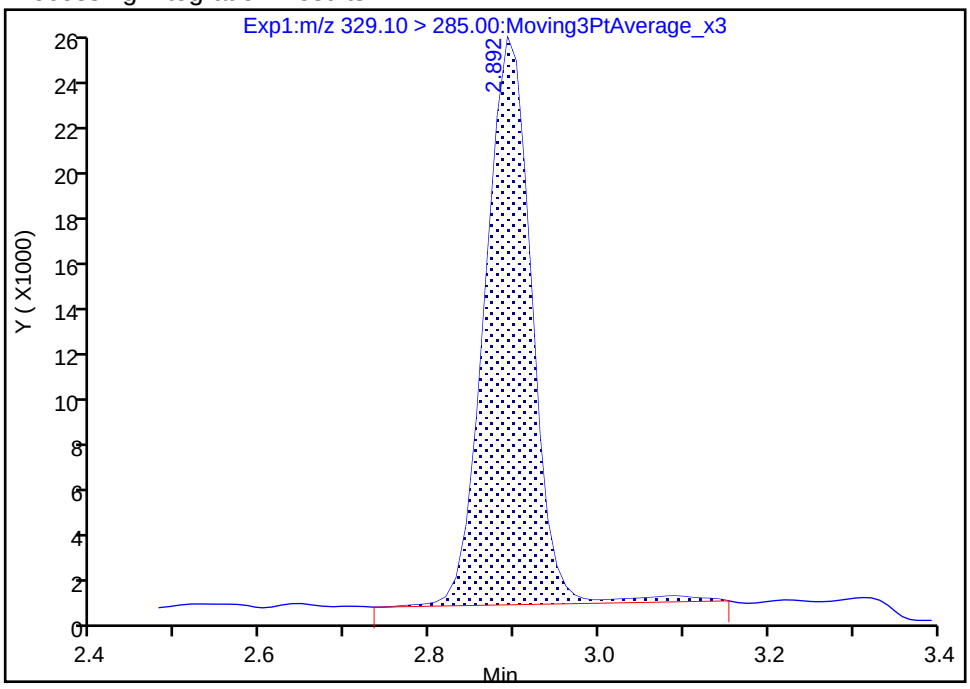
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d				
Injection Date:	08-Jul-2021 15:35:36	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

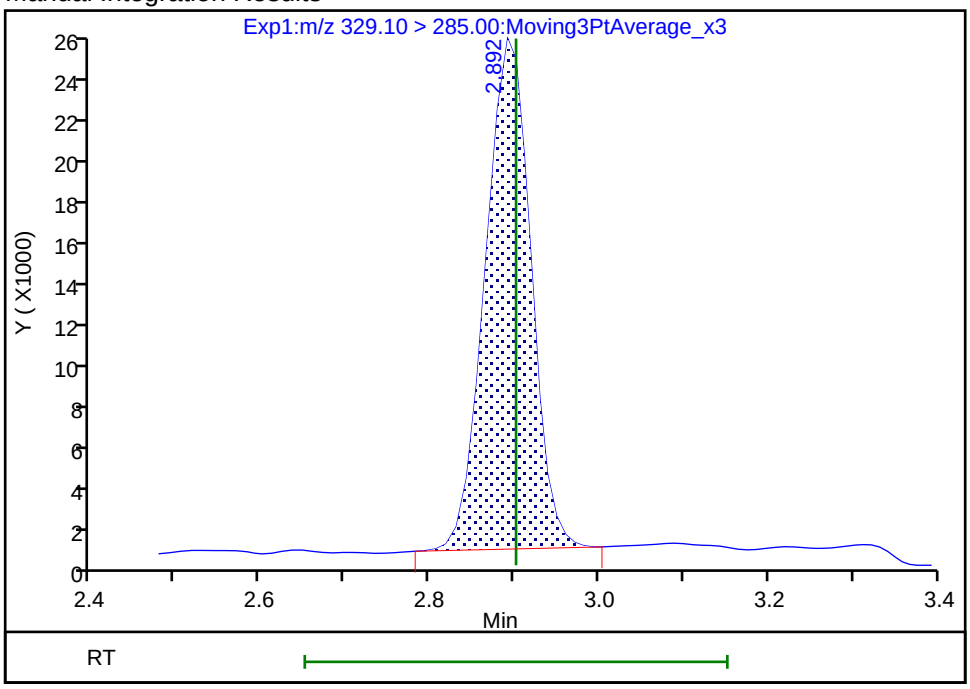
Processing Integration Results

RT: 2.89
Area: 93678
Amount: 0.540249
Amount Units: ng/ml



Manual Integration Results

RT: 2.89
Area: 90771
Amount: 0.537653
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:06:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

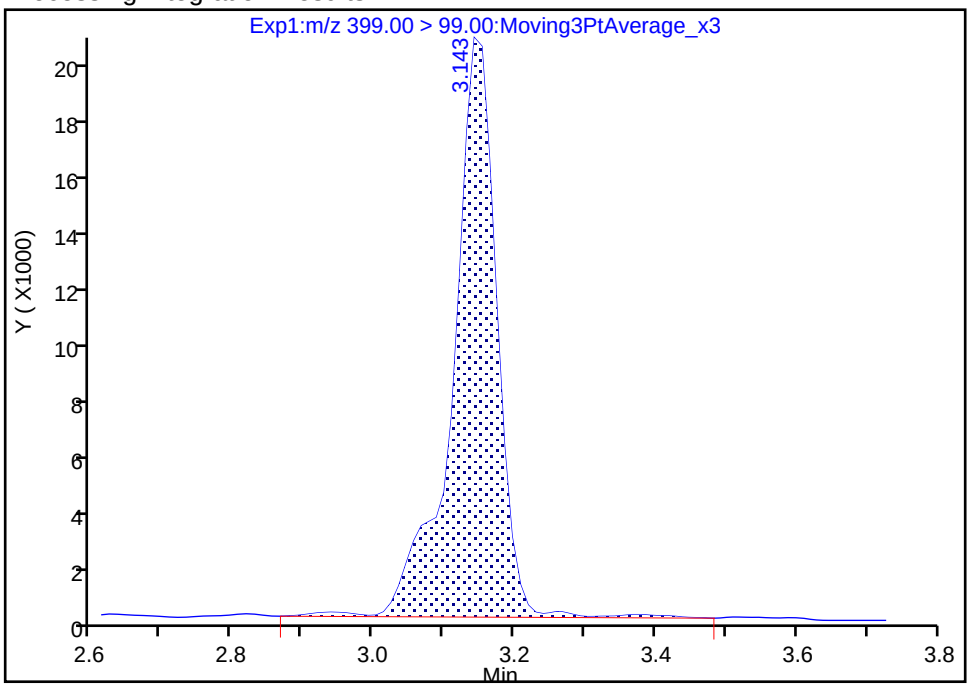
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d				
Injection Date:	08-Jul-2021 15:35:36	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

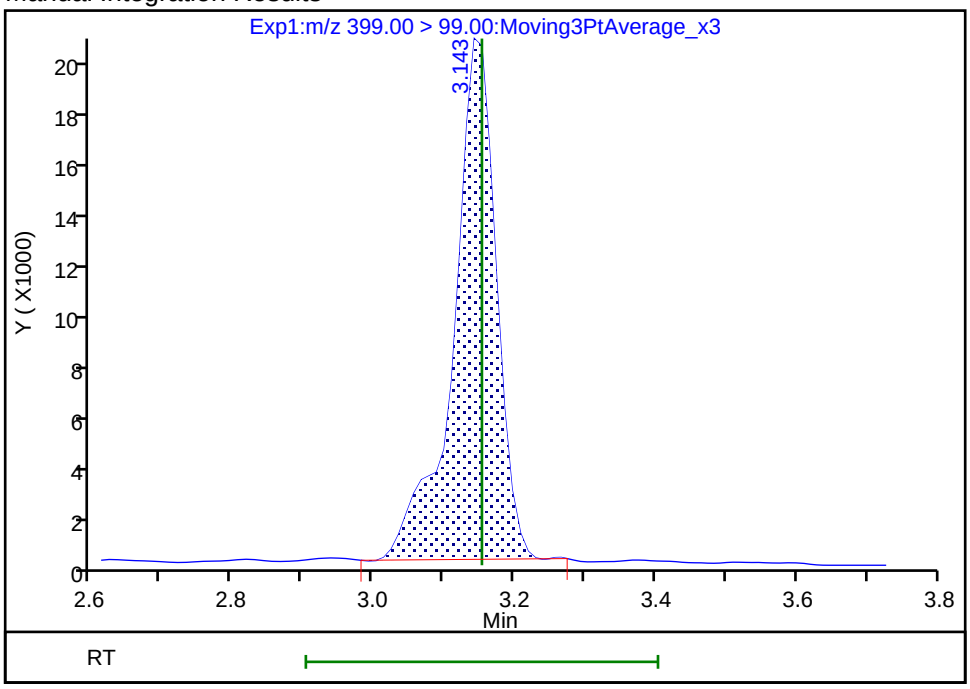
Processing Integration Results

RT: 3.14
Area: 89776
Amount: 0.427767
Amount Units: ng/ml



Manual Integration Results

RT: 3.14
Area: 86473
Amount: 0.438093
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:06:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

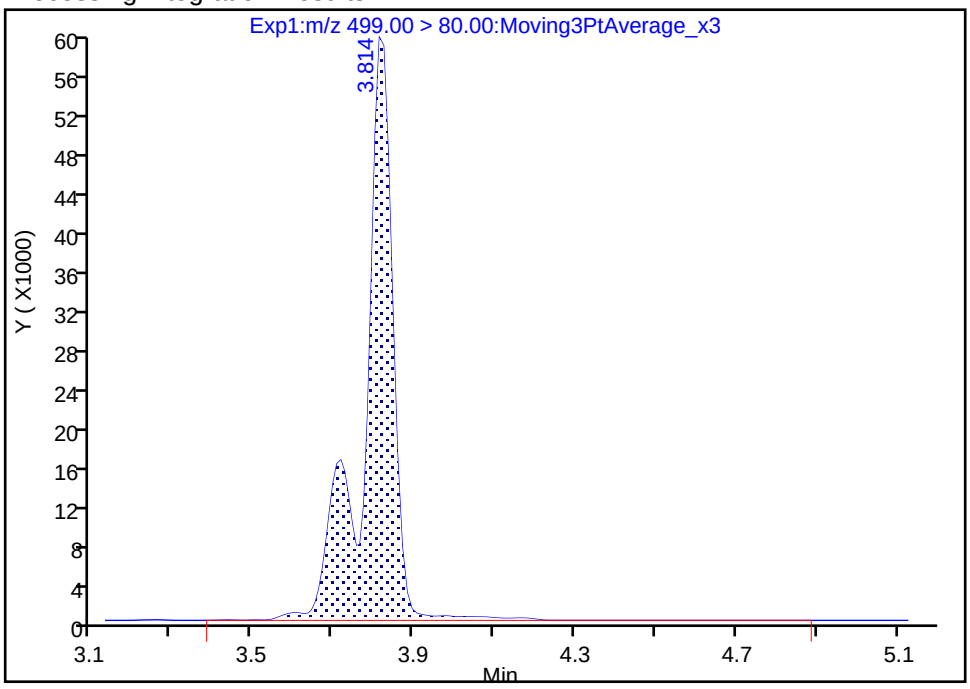
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d				
Injection Date:	08-Jul-2021 15:35:36	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

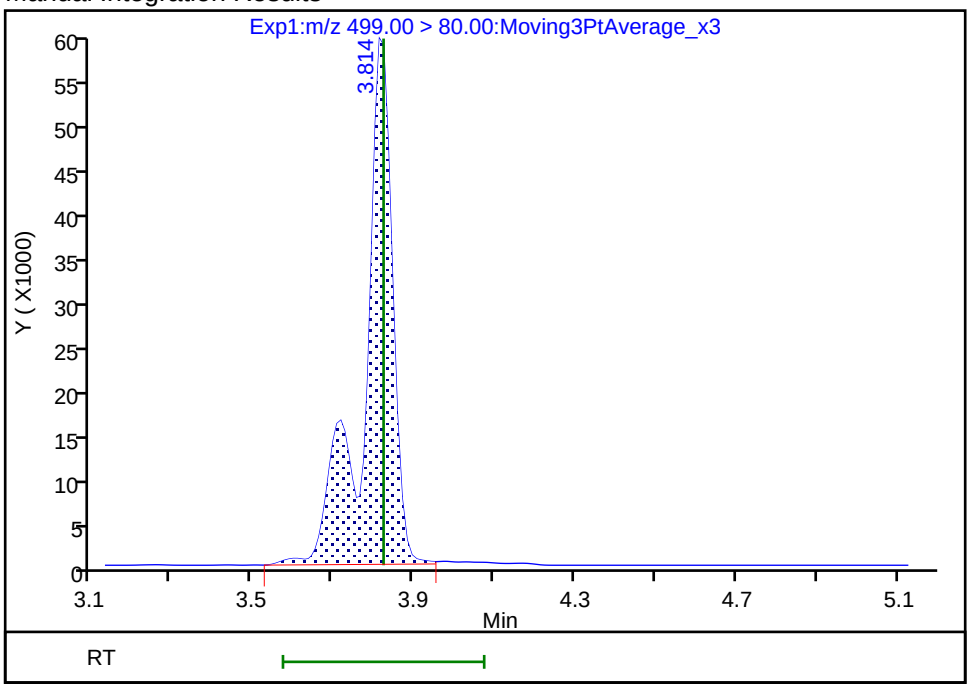
Processing Integration Results

RT: 3.81
Area: 301437
Amount: 0.449025
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 294608
Amount: 0.457665
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:07:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

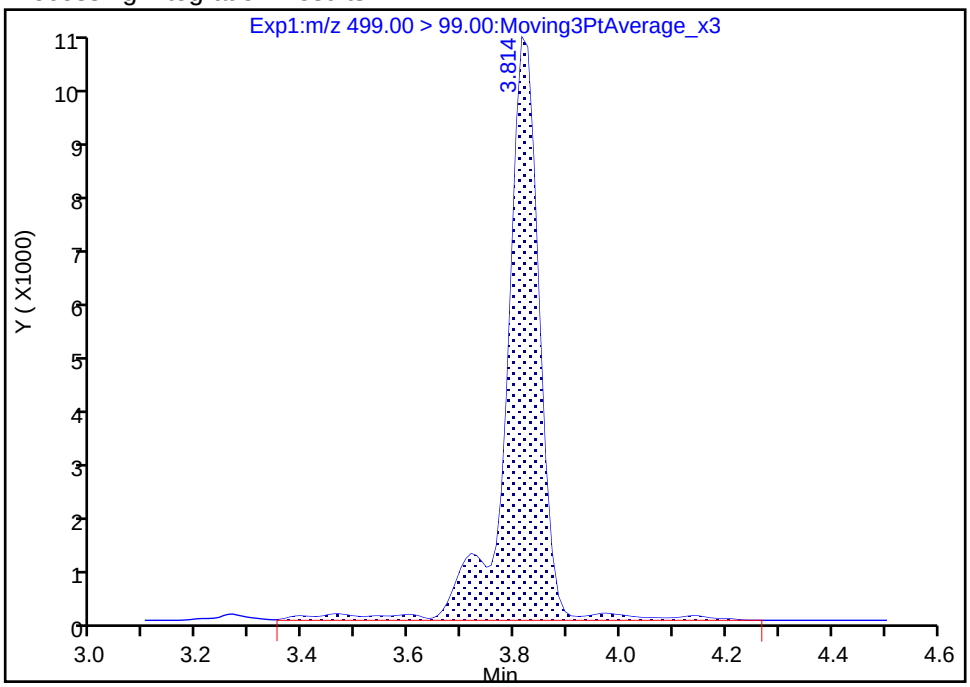
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d				
Injection Date:	08-Jul-2021 15:35:36	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

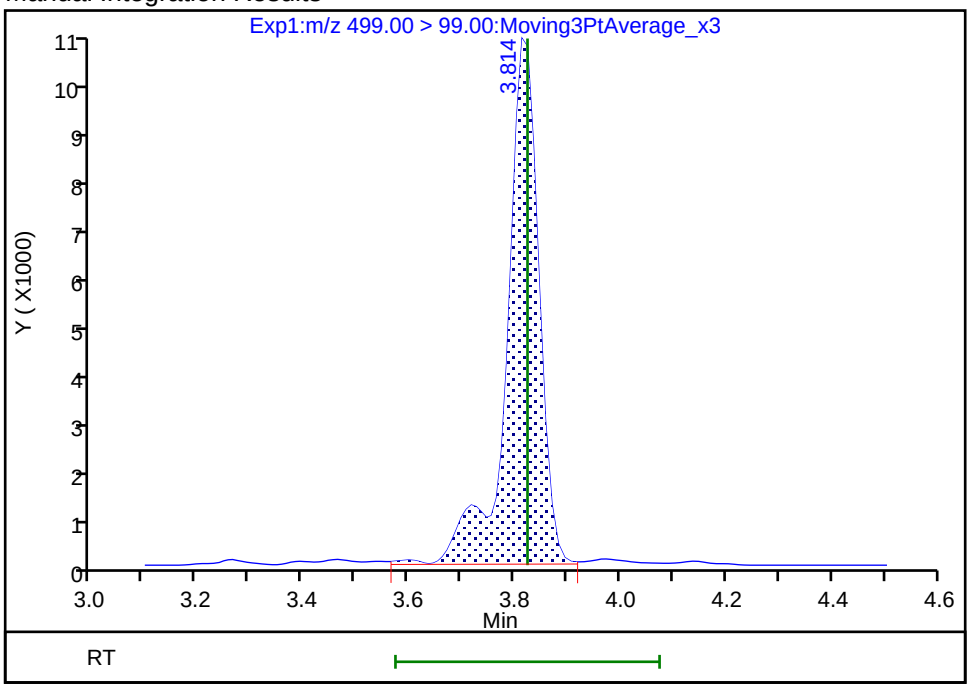
Processing Integration Results

RT: 3.81
Area: 48223
Amount: 0.449025
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 45665
Amount: 0.457665
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:07:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

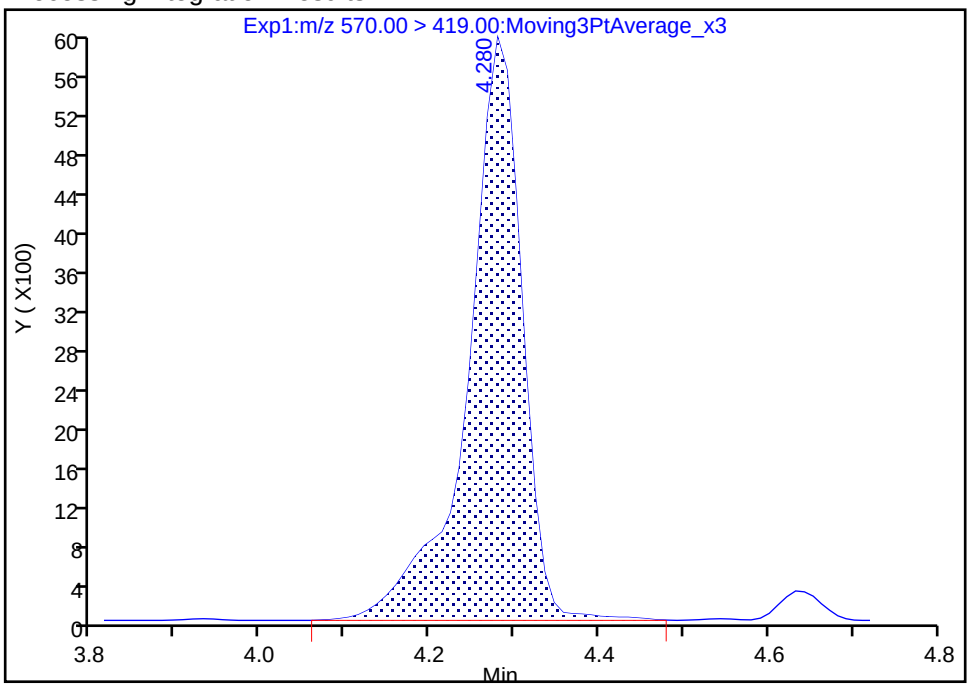
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d				
Injection Date:	08-Jul-2021 15:35:36	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

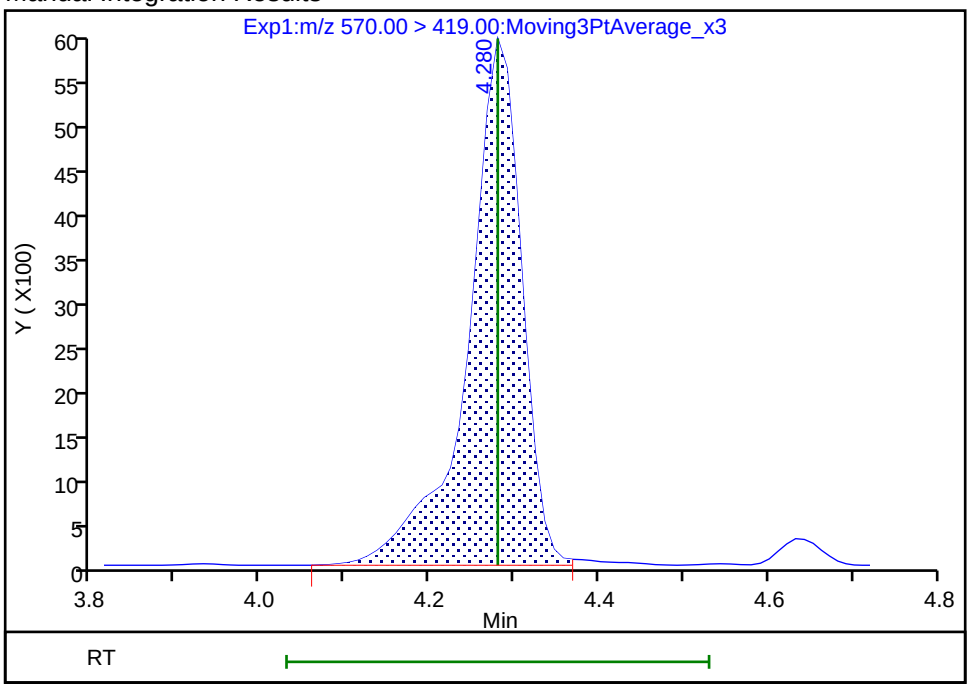
Processing Integration Results

RT: 4.28
Area: 26520
Amount: 0.467267
Amount Units: ng/ml



Manual Integration Results

RT: 4.28
Area: 26298
Amount: 0.463115
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:07:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

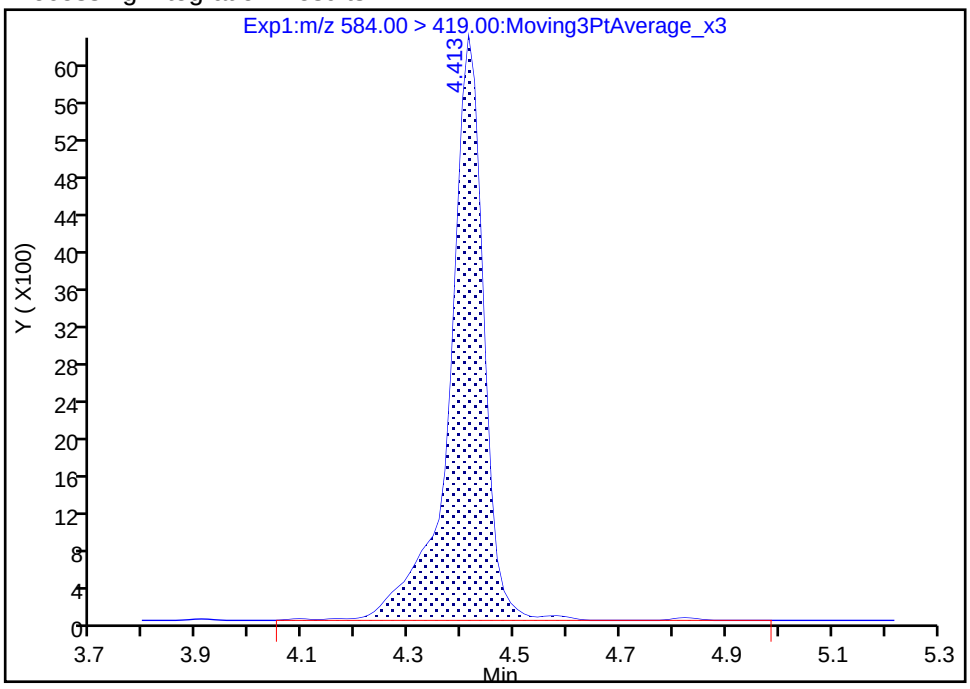
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d				
Injection Date:	08-Jul-2021 15:35:36	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

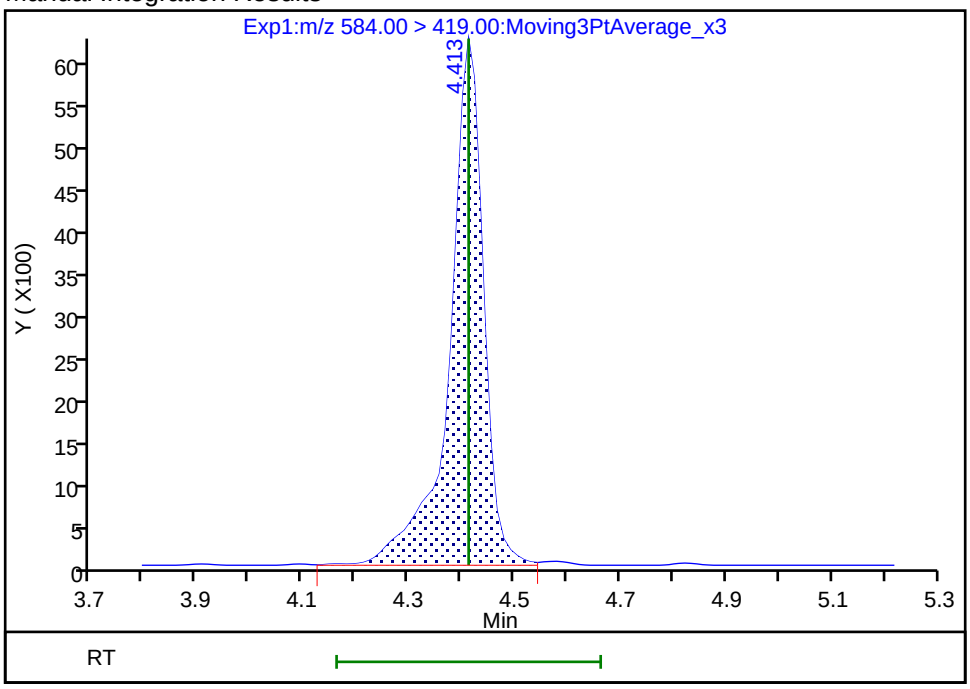
Processing Integration Results

RT: 4.41
Area: 28149
Amount: 0.480856
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 27857
Amount: 0.478298
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:08:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

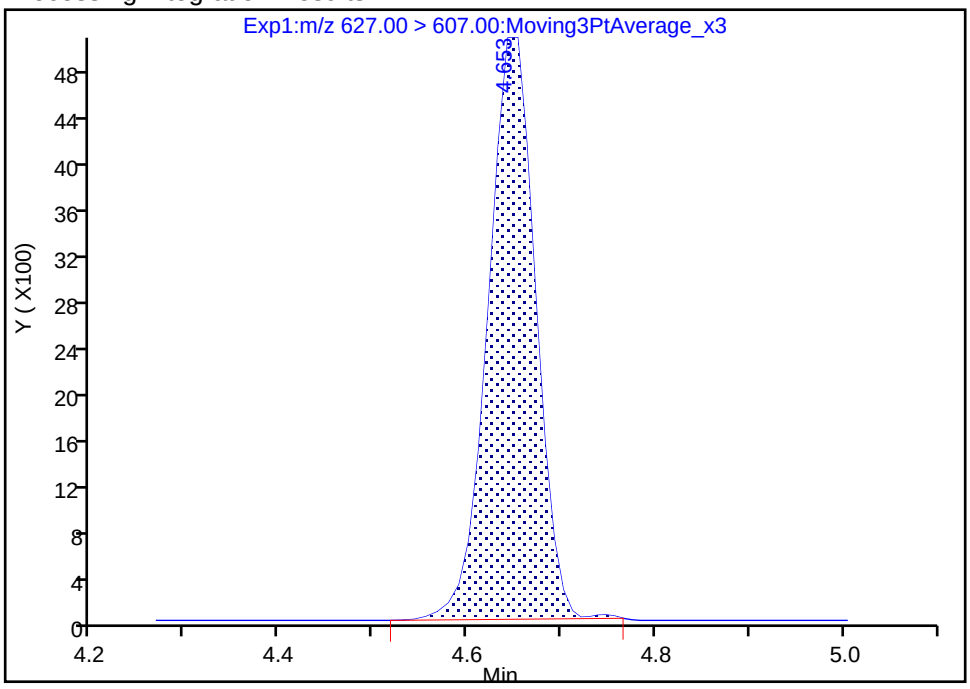
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL04.d				
Injection Date:	08-Jul-2021 15:35:36	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

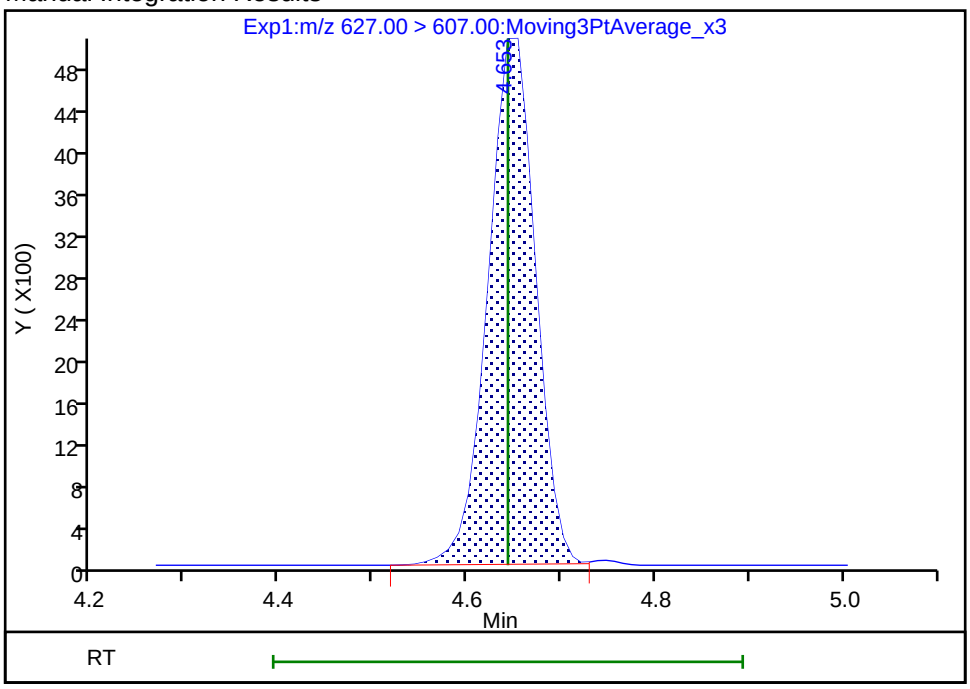
Processing Integration Results

RT: 4.65
Area: 17554
Amount: 0.528073
Amount Units: ng/ml



Manual Integration Results

RT: 4.65
Area: 17511
Amount: 0.512251
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:08:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL05.d
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 08-Jul-2021 15:43:53 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 200-0046726-005 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 08-Jul-2021 16:35:27 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1667

First Level Reviewer: chirgwinb Date: 08-Jul-2021 16:10:39
Ratio Calibration: Average of Initial Calibration

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	2.109	2.109	0.0	0.601	1633918	1.23		98.4	8249	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.109	0.0	1.000	1280004	1.02		102	227	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.439	0.0	0.695	1216538	1.21		96.9	3224	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.439	2.439	0.0	1.000	1055215	1.05		105	145	
D 47 13C3 PFBS										
301.90 > 80.00	2.452	2.452	0.0	0.699	1216936	1.14		98.3	462766	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.452	2.452	0.0	1.000	1068073	0.9446	Target=2.20	107	2676	
298.90 > 99.00	2.452	2.452	0.0	1.000	485339		2.20(1.10-3.30)	107	370	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.758	2.758	0.0	1.000	155959	0.9208		98.6	1714	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.758	2.758	0.0	0.786	102557	1.17		99.9	180	
D 7 13C2 PFHxA										
315.00 > 270.00	2.795	2.795	0.0	0.796	1361827	1.23		98.4	3942	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.795	2.795	0.0	1.000	1108383	1.01	Target=13.03	101	318	
313.00 > 119.00	2.795	2.795	0.0	1.000	85752		12.93(6.51-19.54)	101	229	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.795	2.795	0.0	0.886	1018103	0.9806	Target=3.51	105	1724	
349.00 > 99.00	2.795	2.795	0.0	0.886	274562		3.71(1.75-5.26)	105	441	
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.902	2.902	0.0	1.000	185739	1.03		103	77.7	

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	2.902	2.902	0.0	0.827	136142	1.14		91.1	1563	
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.154	0.0	0.898	1365717	1.23		98.5	4134	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.154	3.154	0.0	1.000	1169206	1.03	Target=3.67	103	570	
363.00 > 169.00	3.154	3.154	0.0	1.000	317371		3.68(1.84-5.51)	103	749	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.154	0.0	1.000	886495	0.9070	Target=4.55	99.7	1618	
399.00 > 99.00	3.154	3.154	0.0	1.000	198002		4.48(2.28-6.83)	99.7	344	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.154	0.0	0.898	998847	1.18		99.9	1593	
77 DONA										
377.00 > 251.00	3.196	3.196	0.0	0.838	2039661	0.9356	Target=2.55	99.3	2664	
377.00 > 85.00	3.196	3.196	0.0	0.838	824837		2.47(1.27-3.82)	99.3	1629	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.501	3.501	0.0	0.918	751176	0.9746	Target=6.75	102	4232	
449.00 > 99.00	3.501	3.501	0.0	0.918	114513		6.56(3.37-10.12)	102	492	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.501	3.501	0.0	0.997	139271	1.19		100.0	580	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.501	3.501	0.0	1.000	123442	1.02		107	1137	
D 14 13C4 PFOA										
417.00 > 372.00	3.510	3.510	0.0	1.000	1439464	1.26		101	3733	
* 62 13C2 PFOA										
415.00 > 370.00	3.510	3.510	0.0		1450404	1.25			2937	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.510	3.510	0.0	1.000	1215762	1.00	Target=2.67	100	531	
413.00 > 169.00	3.510	3.510	0.0	1.000	455560		2.67(1.33-4.00)	100	1130	
D 18 13C4 PFOS										
503.00 > 80.00	3.814	3.814	0.0	1.087	739646	1.20		100	2429	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.824	3.824	0.0	1.003	636862	0.9181	Target=6.26	98.9	624	M
499.00 > 99.00	3.814	3.824	-0.010	1.000	95227		6.69(3.13-9.39)	98.9	302	M
D 19 13C5 PFNA										
468.00 > 423.00	3.836	3.836	0.0	1.093	1371692	1.26		101	3048	
20 Perfluorononanoic acid										
463.00 > 419.00	3.847	3.847	0.0	1.003	1086298	1.02	Target=6.99	102	416	
463.00 > 169.00	3.836	3.847	-0.011	1.000	150716		7.21(3.49-10.48)	102	987	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.983	3.983	0.0	1.044	691544	0.9117		97.8	2170	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.104	4.104	0.0	1.076	509488	0.99	Target=3.17	103	3031	
549.00 > 99.00	4.104	4.104	0.0	1.076	159212		3.20(1.58-4.75)	103	647	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.137	0.0	1.179	1251726	1.27		101	3011	

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	4.137	4.137	0.0	1.000	1030459	0.9667	Target=8.56	96.7	904	
513.00 > 169.00	4.137	4.137	0.0	1.000	122424		8.42(4.28-12.83)	96.7	881	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.148	4.148	0.0	1.000	64353	0.9813		102	890	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.148	4.148	0.0	1.182	157618	1.13		94.2	752	
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.214	0.0	1.201	1395013	1.28		103	2470	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.214	4.214	0.0	1.000	1101480	1.01		101	1499	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.280	0.0	1.219	94423	1.30		104	281	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.280	4.280	0.0	1.000	67250	1.07		107	374	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.369	4.369	0.0	1.145	401893	1.03	Target=2.85	106	3029	
599.00 > 99.00	4.369	4.369	0.0	1.145	151218		2.66(1.42-4.27)	106	1126	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.402	4.402	0.0	1.000	766710	1.04	Target=7.99	104	1036	
563.00 > 169.00	4.402	4.402	0.0	1.000	99527		7.70(4.00-11.99)	104	888	
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.402	0.0	1.254	950646	1.21		97.1	3882	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.413	0.0	1.257	91102	1.21		96.4	804	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.413	0.0	1.000	61816	1.00		100	709	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.492	4.492	0.0	1.178	602237	0.9615		102	2215	
D 36 13C2 PFDoA										
615.00 > 570.00	4.633	4.633	0.0	1.320	1006236	1.24		99.5	3510	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.633	4.633	0.0	1.000	816452	1.00	Target=6.41	100	298	
613.00 > 169.00	4.633	4.633	0.0	1.000	129480		6.31(3.21-9.62)	100	2188	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.643	4.643	0.0	1.119	33760	1.02		106	855	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.801	4.801	0.0	1.259	135326	1.01	Target=0.46	105	2351	
699.00 > 99.00	4.801	4.801	0.0	1.259	300398		0.45(0.23-0.69)	105	1985	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.845	4.845	0.0	1.046	710827	1.01	Target=4.67	101	339	
663.00 > 169.00	4.845	4.845	0.0	1.046	154133		4.61(2.33-7.00)	101	1470	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.034	5.034	0.0	1.434	800497	1.26		101	4853	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.034	5.034	0.0	1.000	108441	0.9853	Target=1.01	98.5	1534	
713.00 > 219.00	5.024	5.034	-0.010	0.998	108012		1.00(0.51-1.52)	98.5	1593	

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	5.383	5.383	0.0	1.000	631202	1.06	Target=4.09	106	357	
813.00 > 169.00	5.383	5.383	0.0	1.000	146040		4.32(2.05-6.14)	106	1724	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.383	5.383	0.0	1.534	785615	1.22		97.3	3295	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.701	5.701	0.0	1.059	538360	1.01	Target=3.78	101	374	
913.00 > 169.00	5.701	5.701	0.0	1.059	144676		3.72(1.89-5.67)	101	996	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00024 Amount Added: 100.00 Units: uL

Report Date: 08-Jul-2021 16:35:27 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL05.d

Injection Date: 08-Jul-2021 15:43:53 Instrument ID: LC812

Lims ID: ICIS

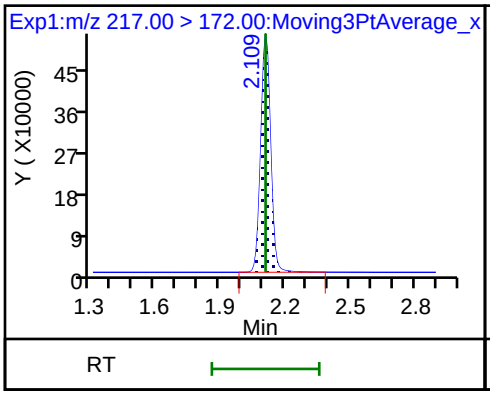
Client ID:

Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5

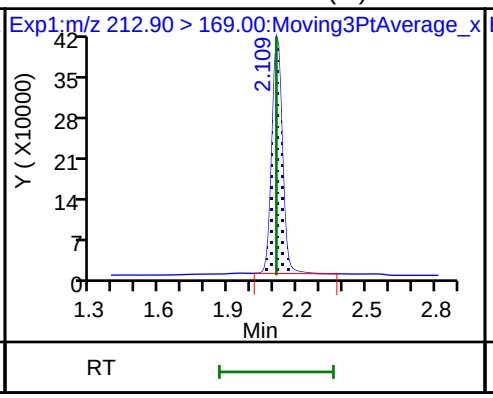
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

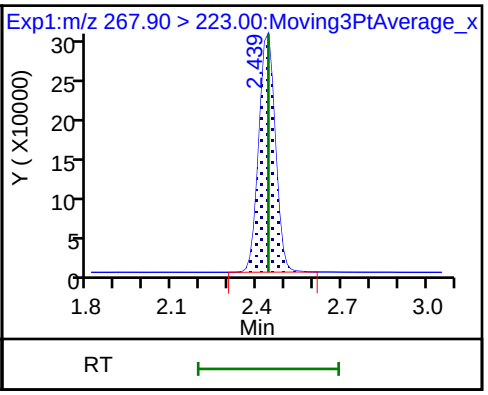
D 1 13C4 PFBA



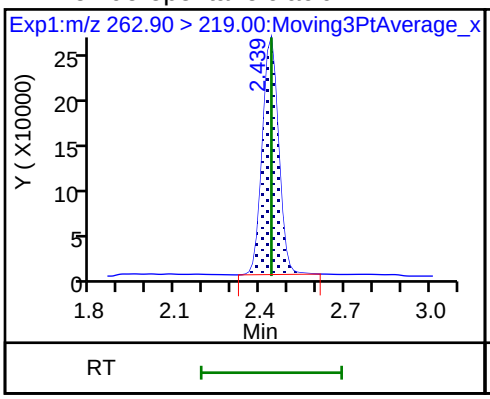
2 Perfluorobutanoic acid (M)



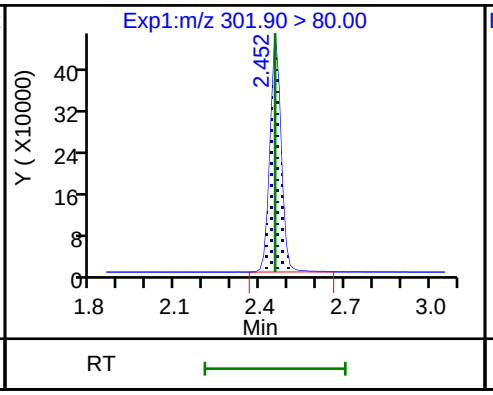
D 3 13C5 PFPeA



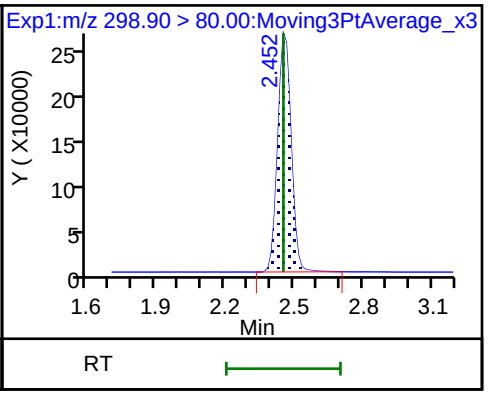
4 Perfluoropentanoic acid



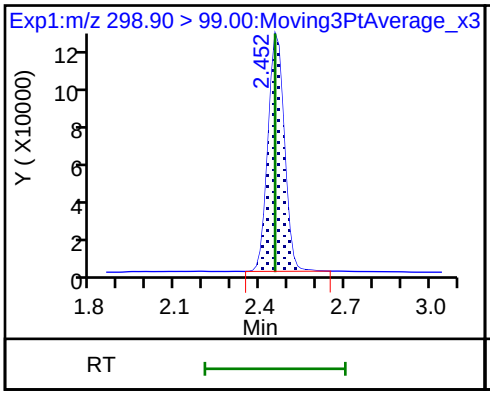
D 47 13C3 PFBS



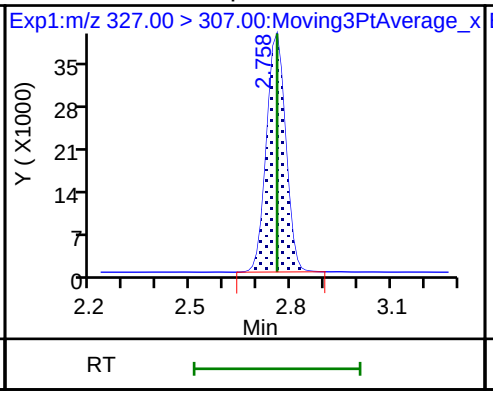
5 Perfluorobutanesulfonic acid



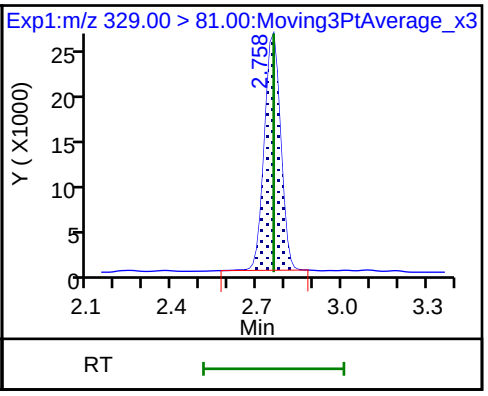
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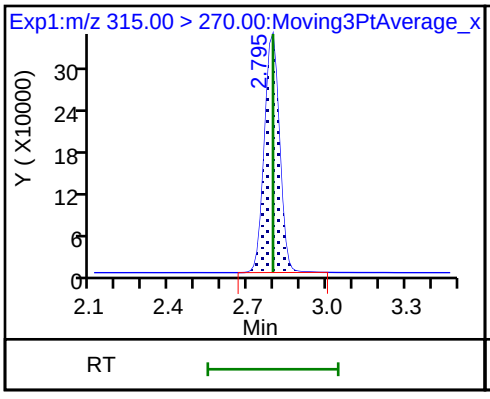
61 1H,1H,2H,2H-perfluorohexanesulfo



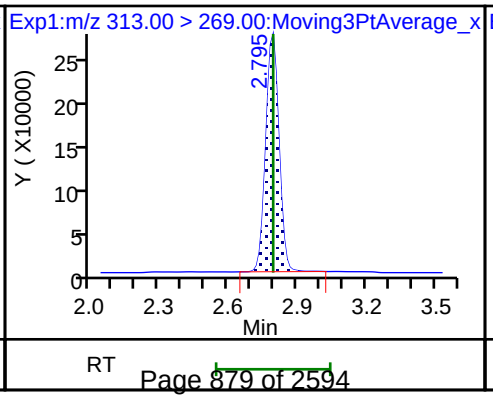
D 60 M2-4:2 FTS



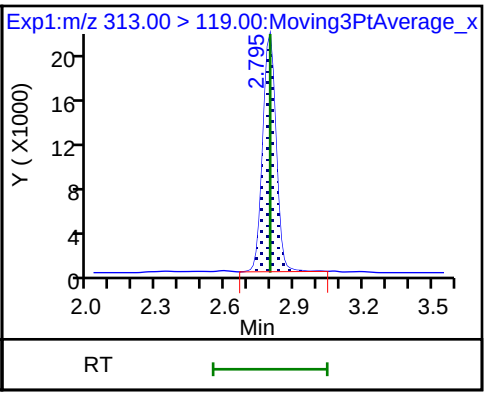
D 7 13C2 PFHxA



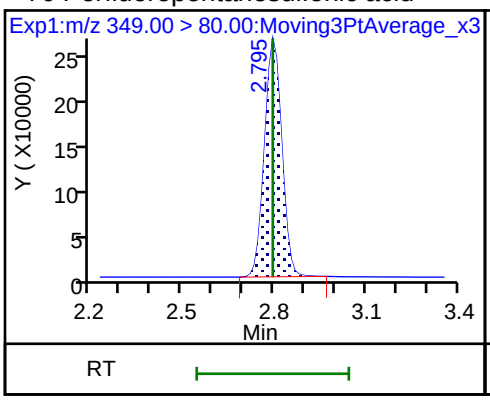
6 Perfluorohexanoic acid



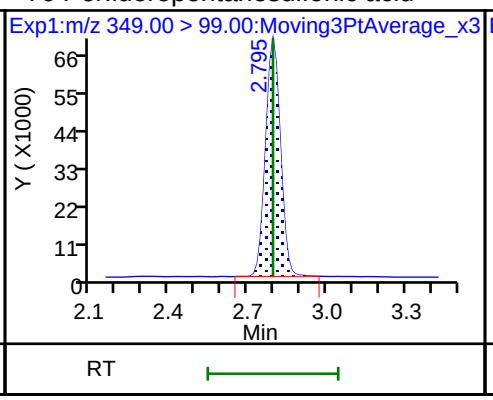
6 Perfluorohexanoic acid



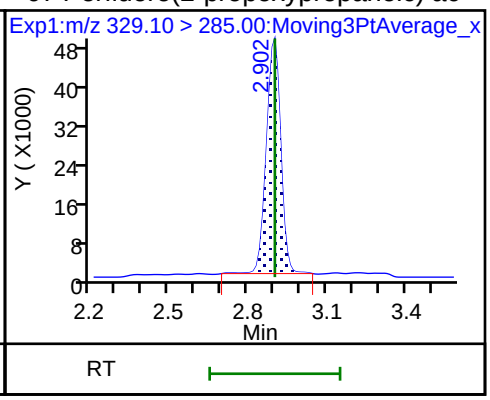
70 Perfluoropentanesulfonic acid



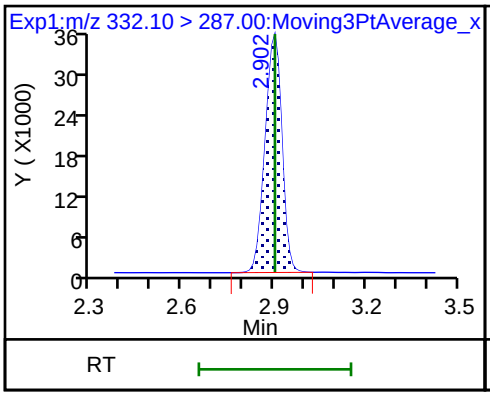
70 Perfluoropentanesulfonic acid



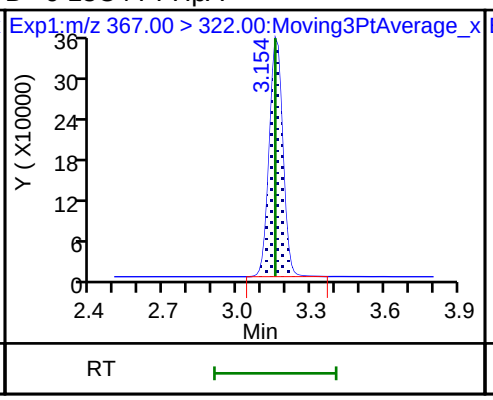
67 Perfluoro(2-propoxypropanoic) ac



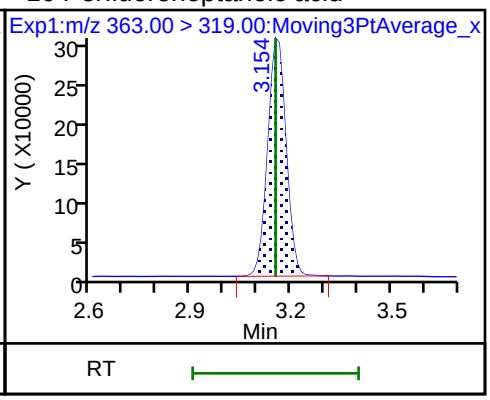
D 64 13C3 HFPO-DA



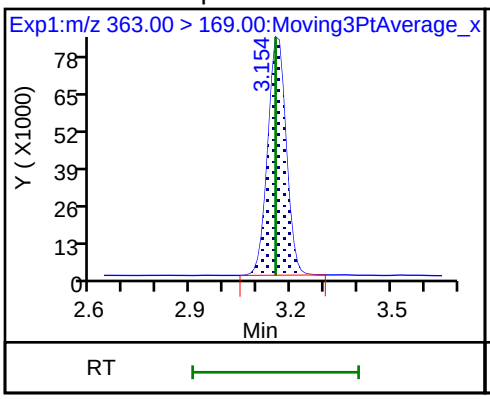
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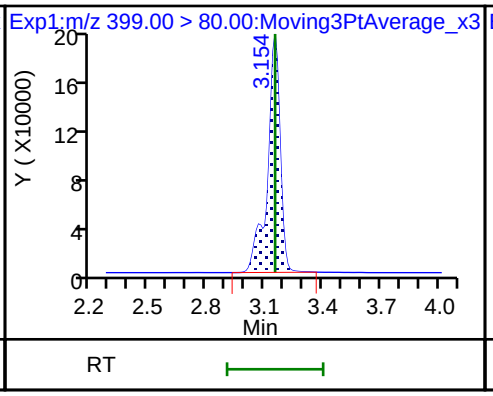
10 Perfluoroheptanoic acid



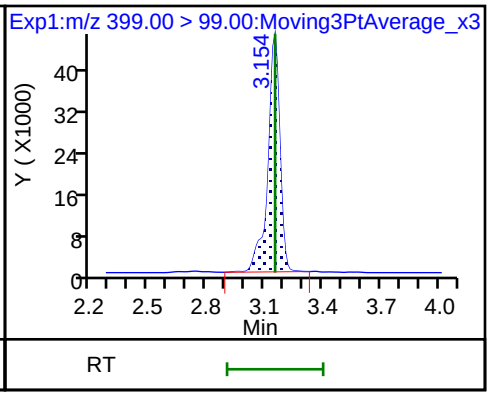
10 Perfluoroheptanoic acid



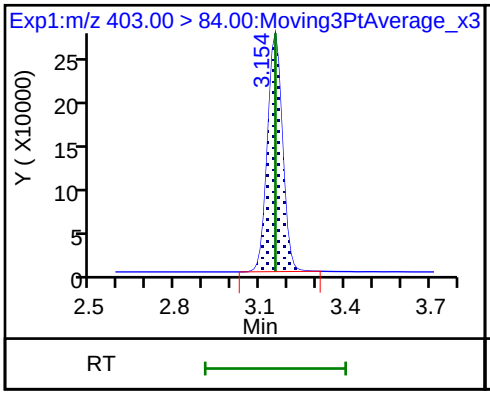
8 Perfluorohexanesulfonic acid



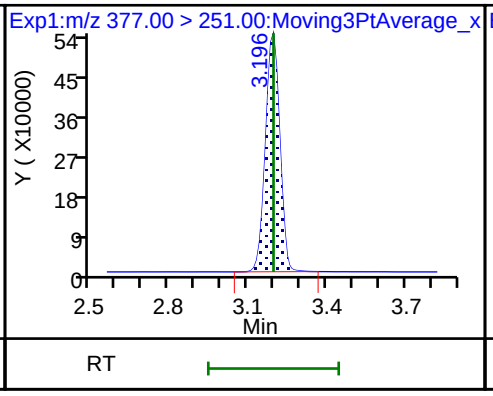
8 Perfluorohexanesulfonic acid



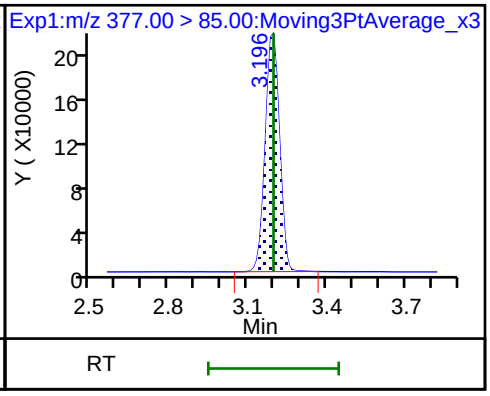
D 11 18O2 PFHxS



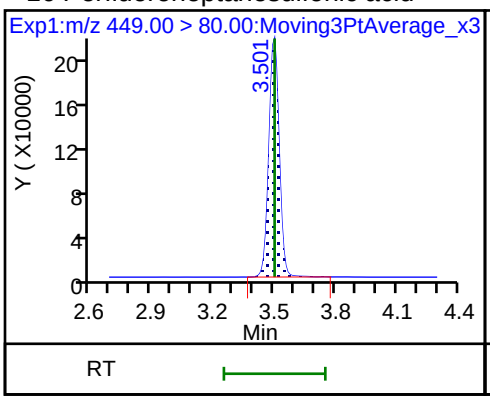
77 DONA



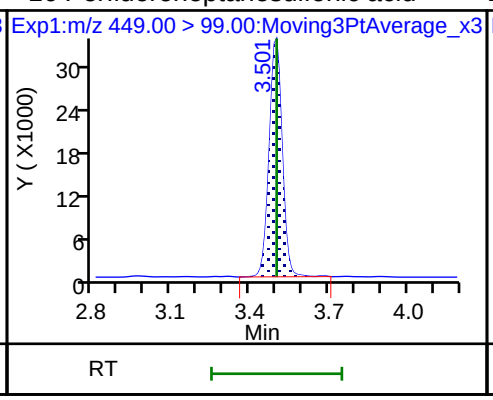
77 DONA



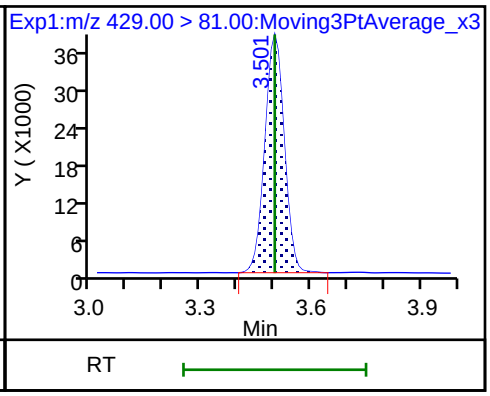
16 Perfluoroheptanesulfonic acid



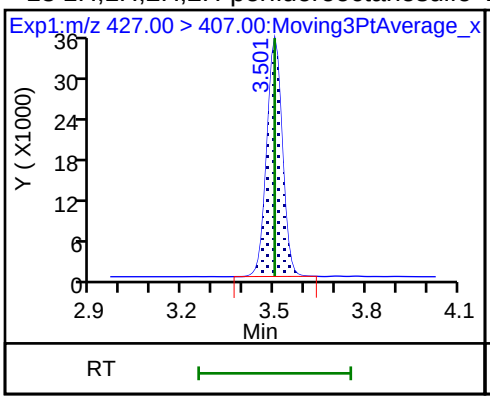
16 Perfluoroheptanesulfonic acid



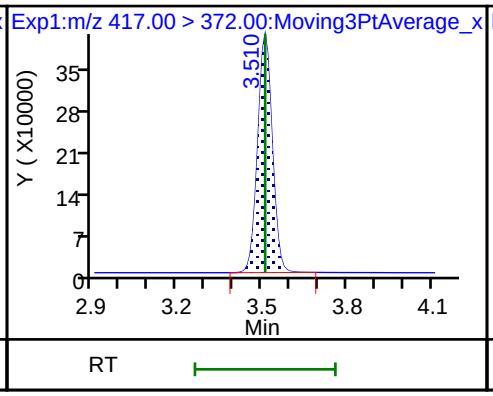
D 12 M2-6:2 FTS



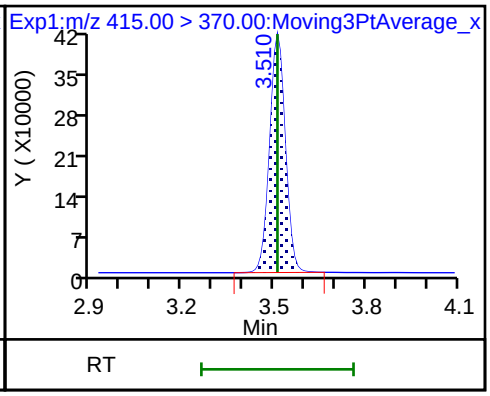
13 1H,1H,2H,2H-perfluorooctanesulfo



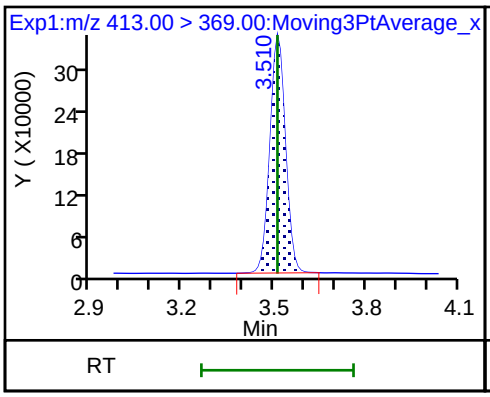
D 14 13C4 PFOA



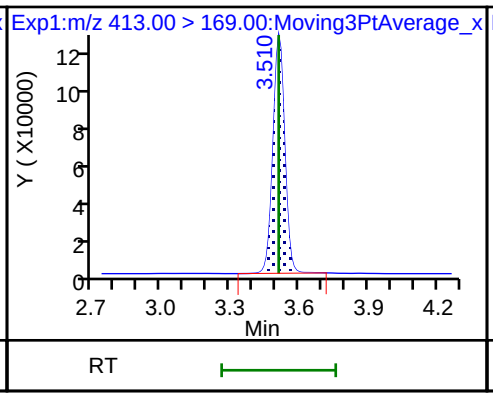
* 62 13C2 PFOA



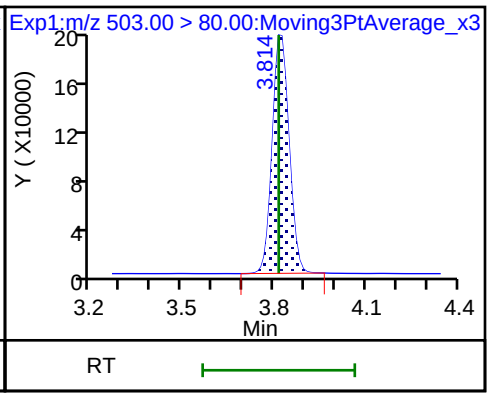
15 Perfluorooctanoic acid



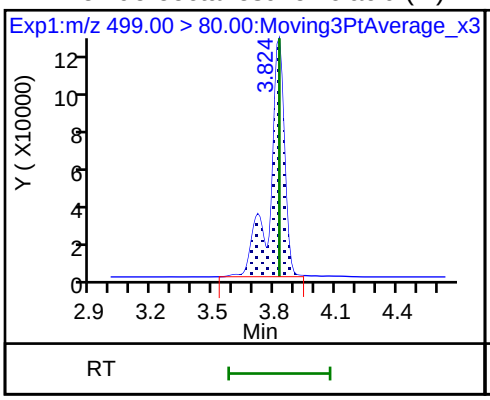
15 Perfluorooctanoic acid



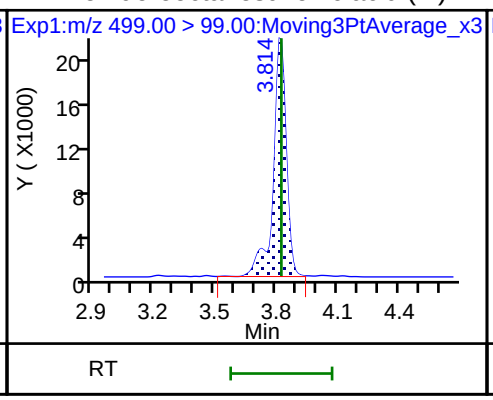
D 18 13C4 PFOS



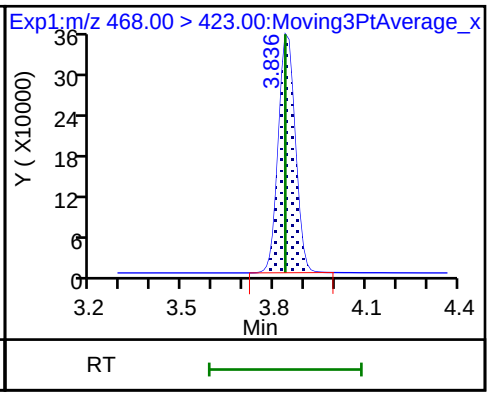
17 Perfluorooctanesulfonic acid (M)



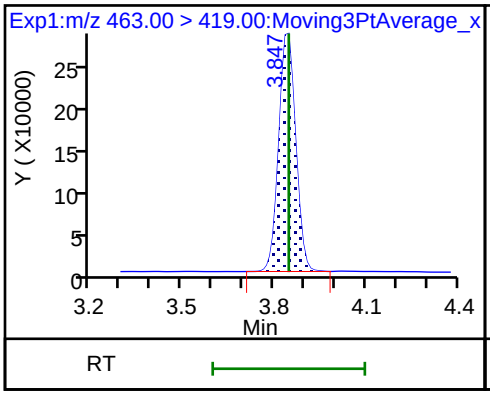
17 Perfluorooctanesulfonic acid (M)



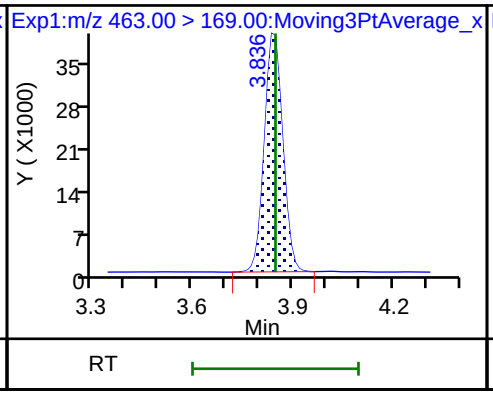
D 19 13C5 PFNA



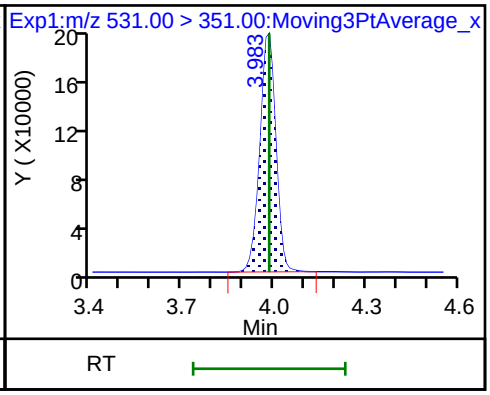
20 Perfluorononanoic acid



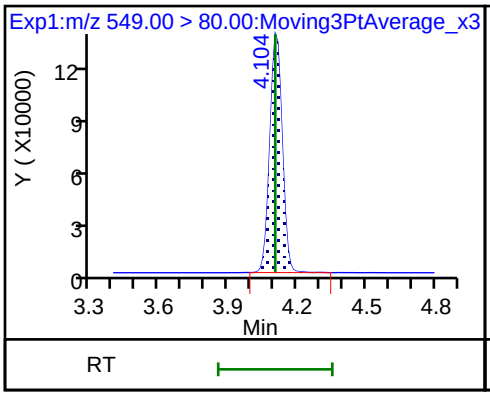
20 Perfluorononanoic acid



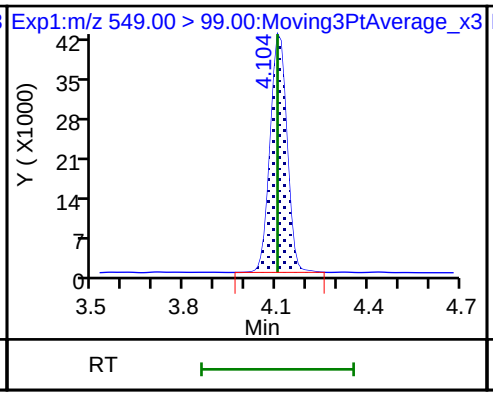
69 9-Chlorohexadecafluoro-3-oxanona



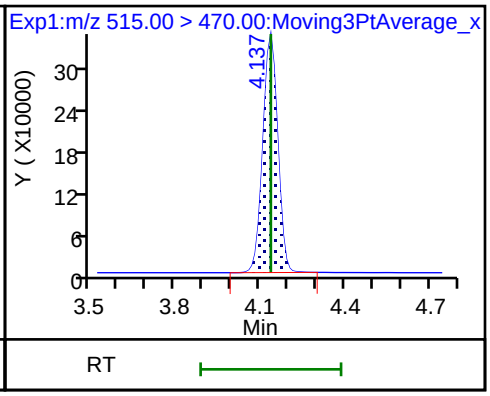
68 Perfluorononanesulfonic acid



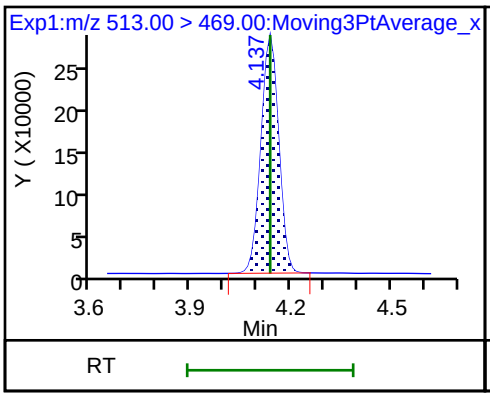
68 Perfluorononanesulfonic acid



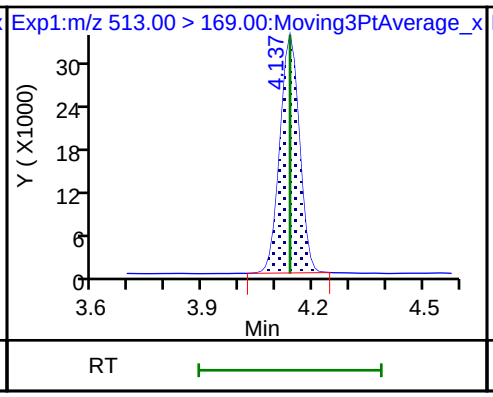
D 23 13C2 PFDA



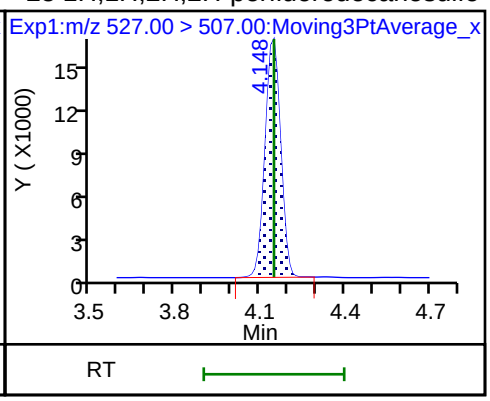
24 Perfluorodecanoic acid



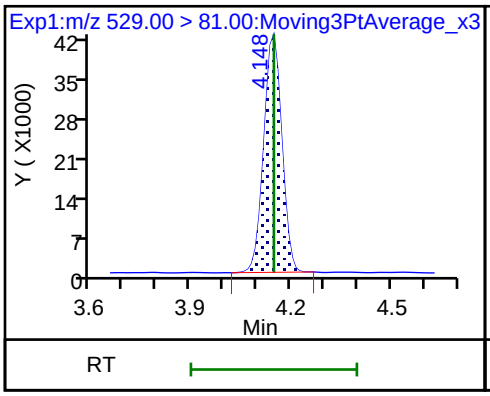
24 Perfluorodecanoic acid



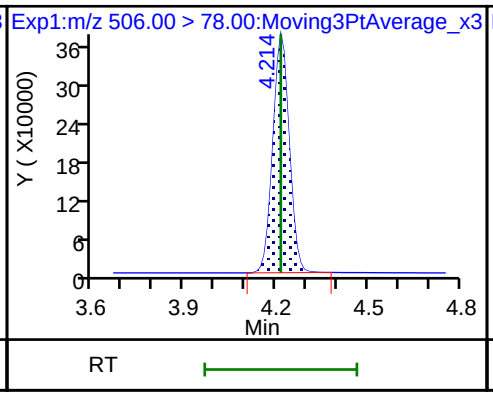
25 1H,1H,2H,2H-perfluorodecanesulfo



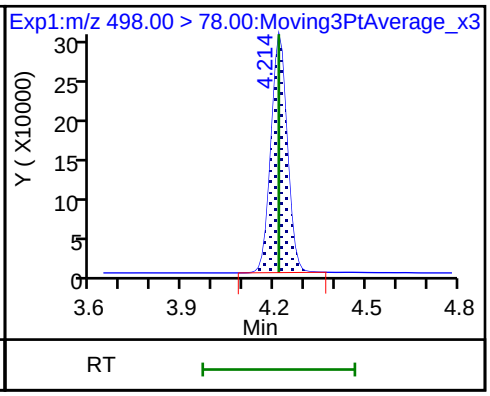
D 26 M2-8:2 FTS



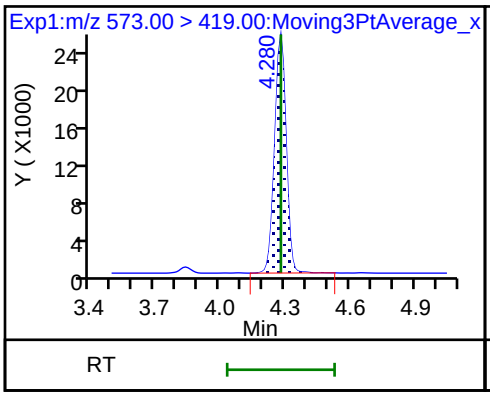
D 21 13C8 FOSA



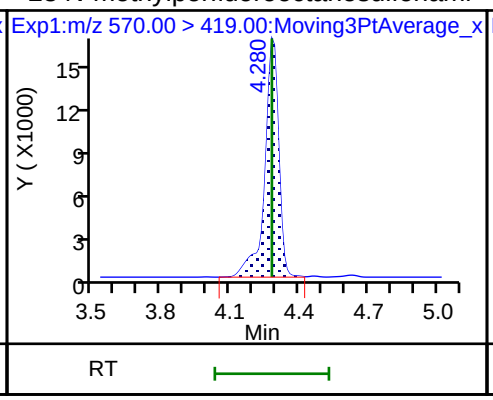
22 Perfluorooctanesulfonamide



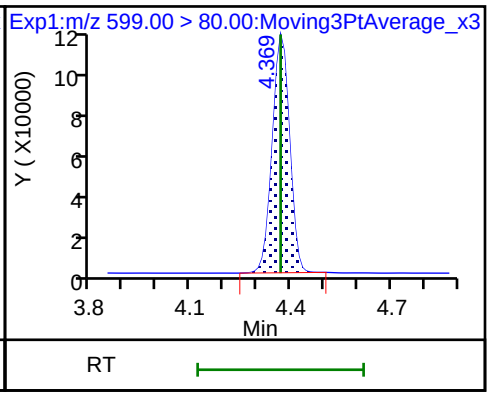
D 27 d3-NMeFOSAA



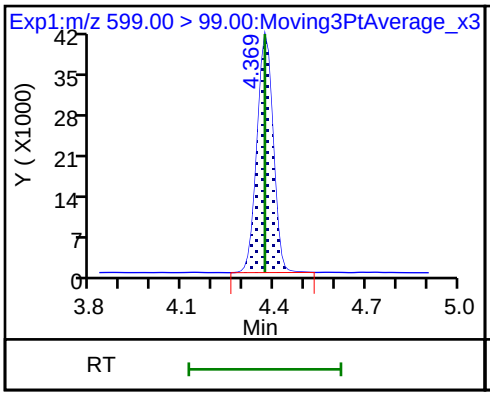
28 N-methylperfluorooctanesulfonami



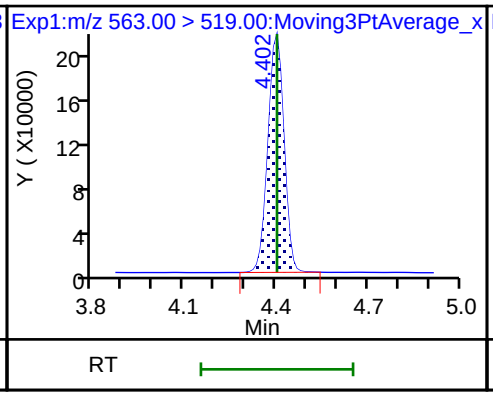
29 Perfluorodecanesulfonic acid



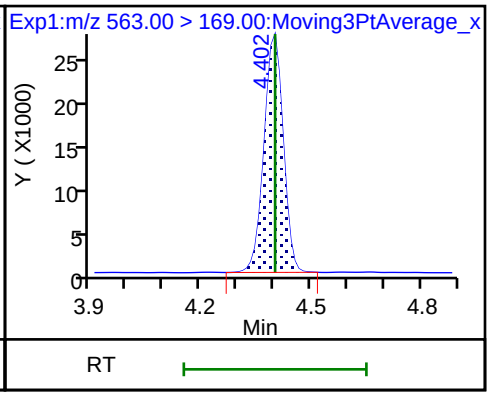
29 Perfluorodecanesulfonic acid



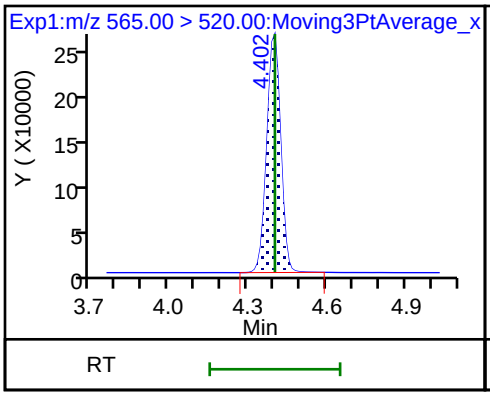
31 Perfluoroundecanoic acid



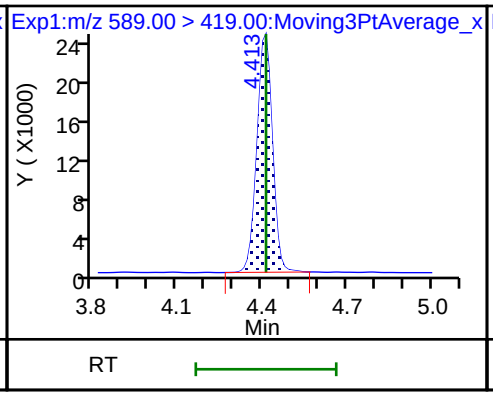
31 Perfluoroundecanoic acid



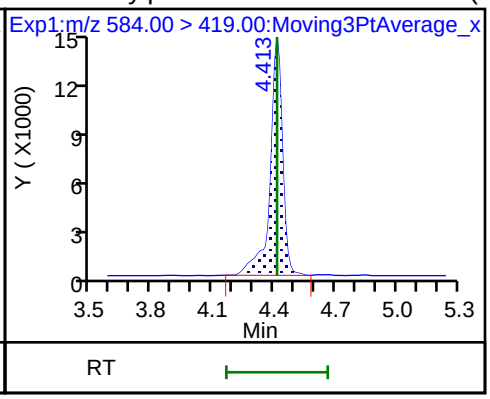
D 30 13C2 PFUnA



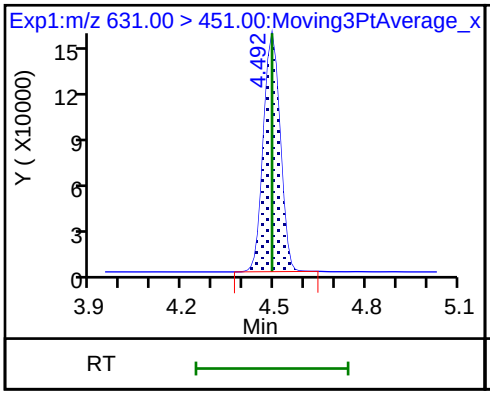
D 32 d5-NEtFOSAA



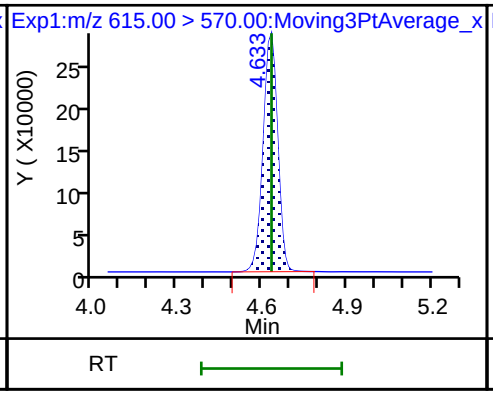
33 N-ethylperfluorooctanesulfonamid (M)



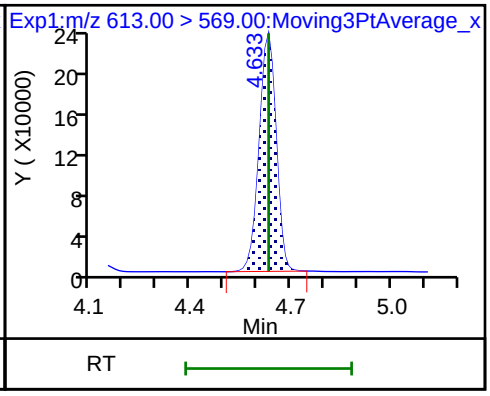
66 11-Chloroeicosafluoro-3-oxaundec



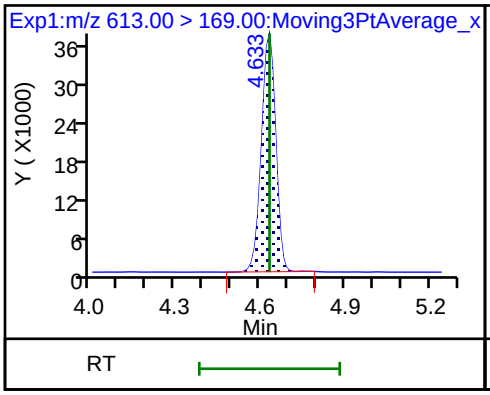
D 36 13C2 PFDoA



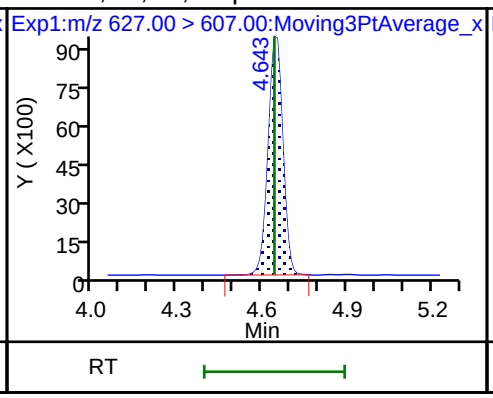
37 Perfluorododecanoic acid



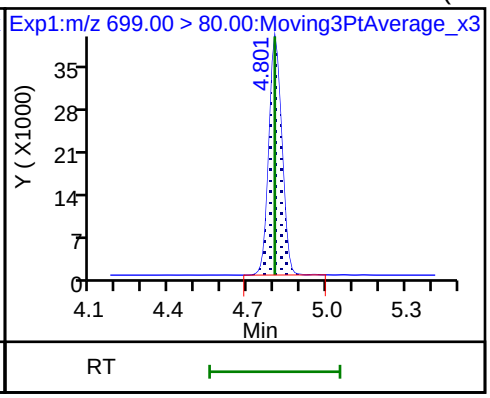
37 Perfluorododecanoic acid



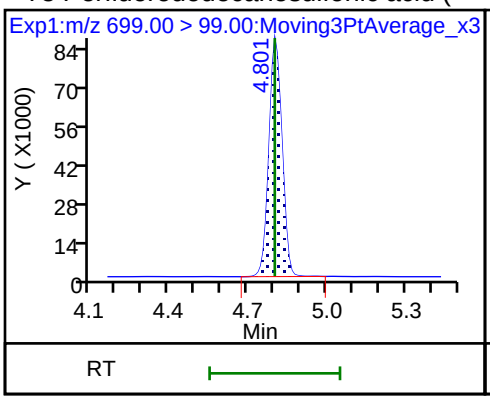
74 1H,1H,2H,2H-perfluorododecanesul



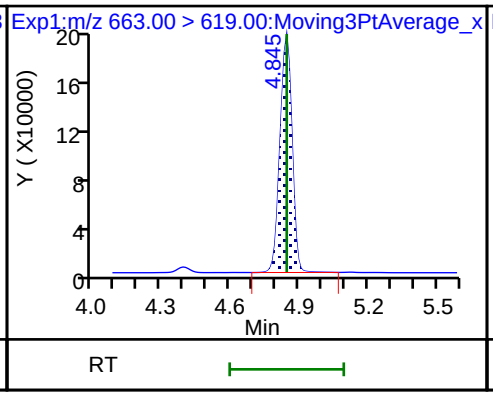
75 Perfluorododecanesulfonic acid (



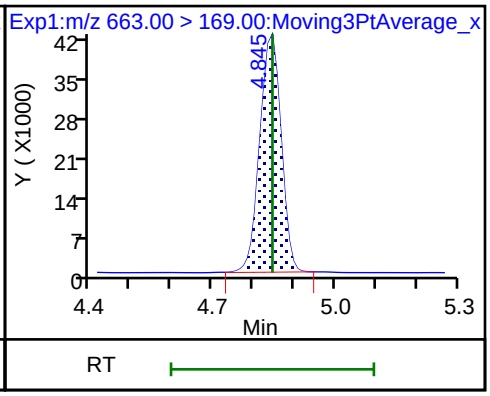
75 Perfluorododecanesulfonic acid (



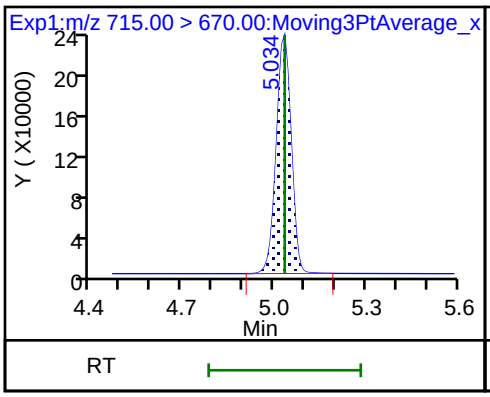
41 Perfluorotridecanoic acid



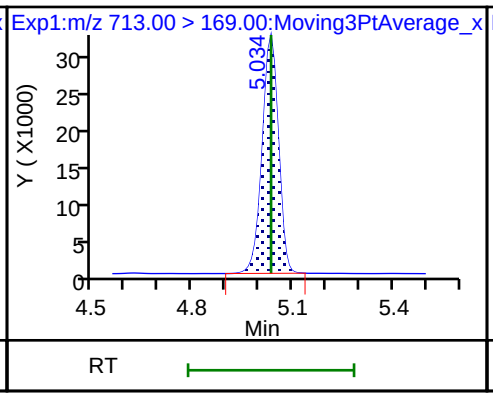
41 Perfluorotridecanoic acid



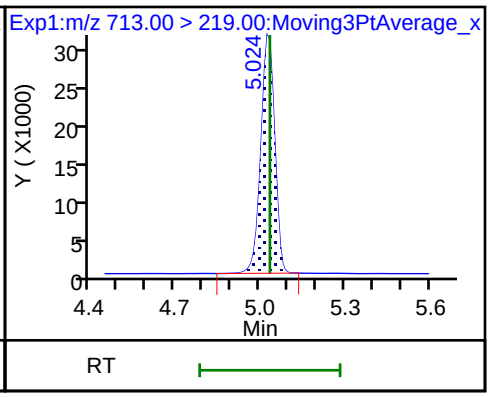
D 43 13C2 PFTeDA



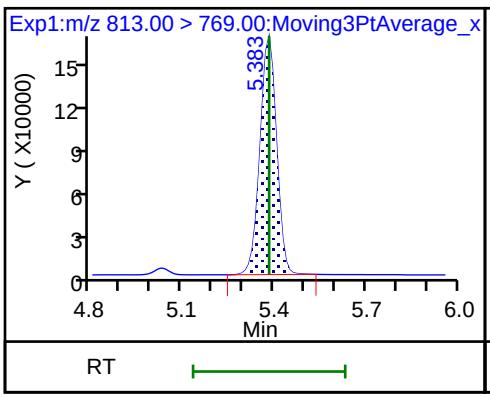
42 Perfluorotetradecanoic acid



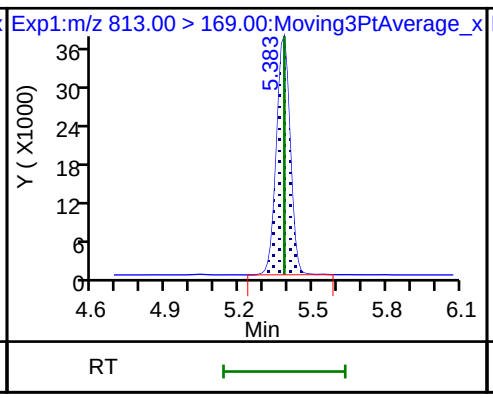
42 Perfluorotetradecanoic acid



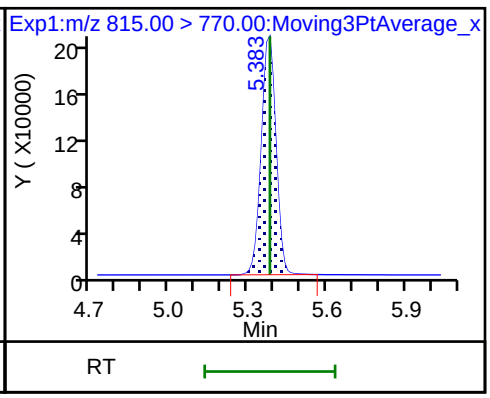
45 Perfluorohexadecanoic acid



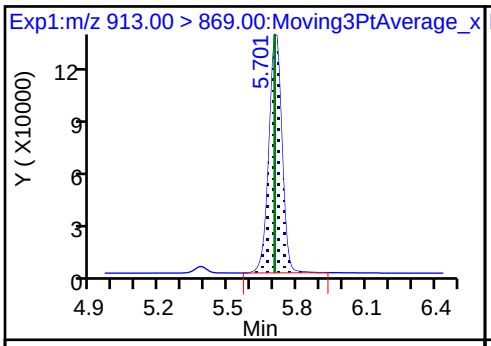
45 Perfluorohexadecanoic acid



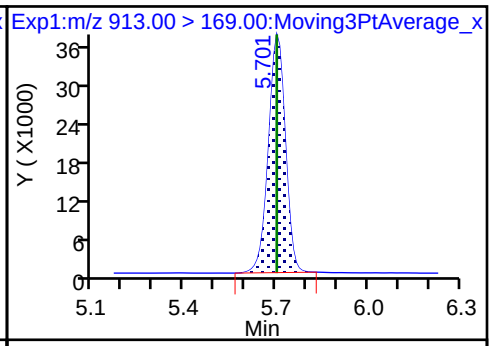
D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

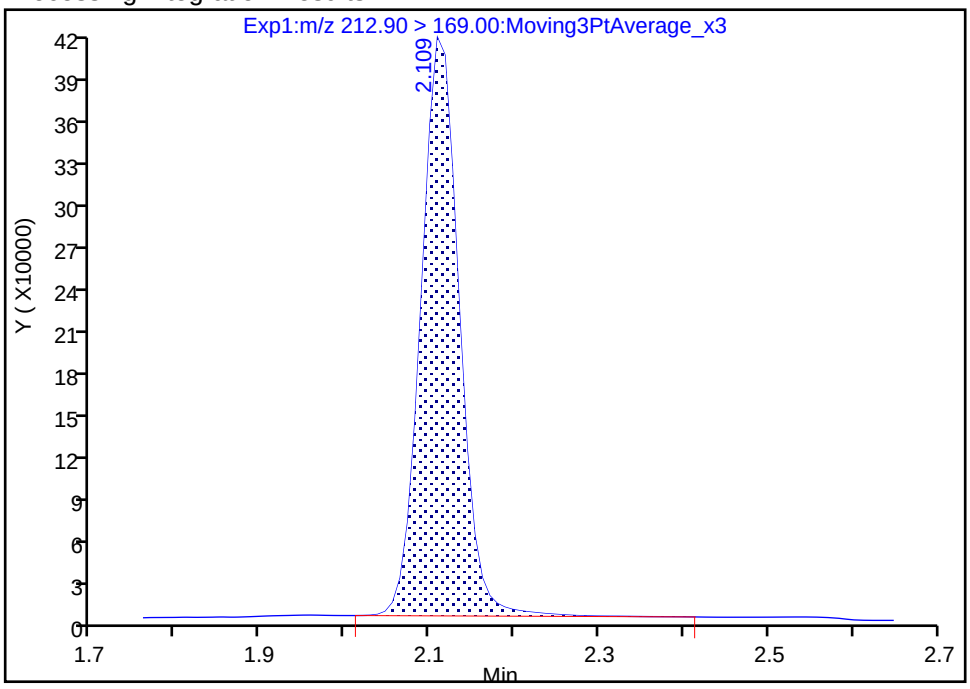
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL05.d				
Injection Date:	08-Jul-2021 15:43:53	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

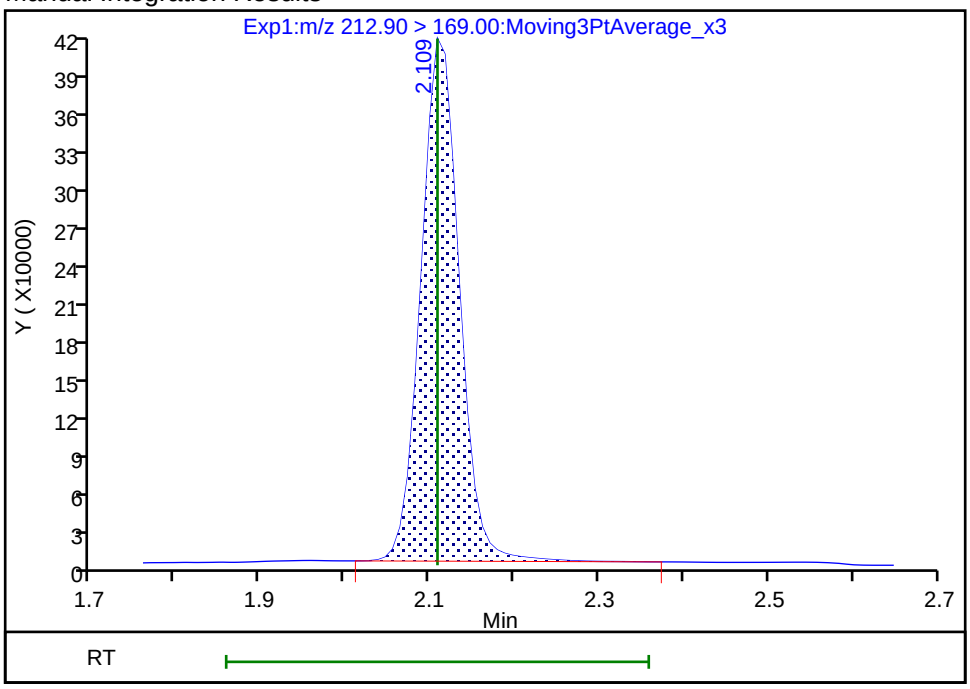
Processing Integration Results

RT: 2.11
Area: 1281219
Amount: 1.016243
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 1280004
Amount: 1.016069
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:19:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

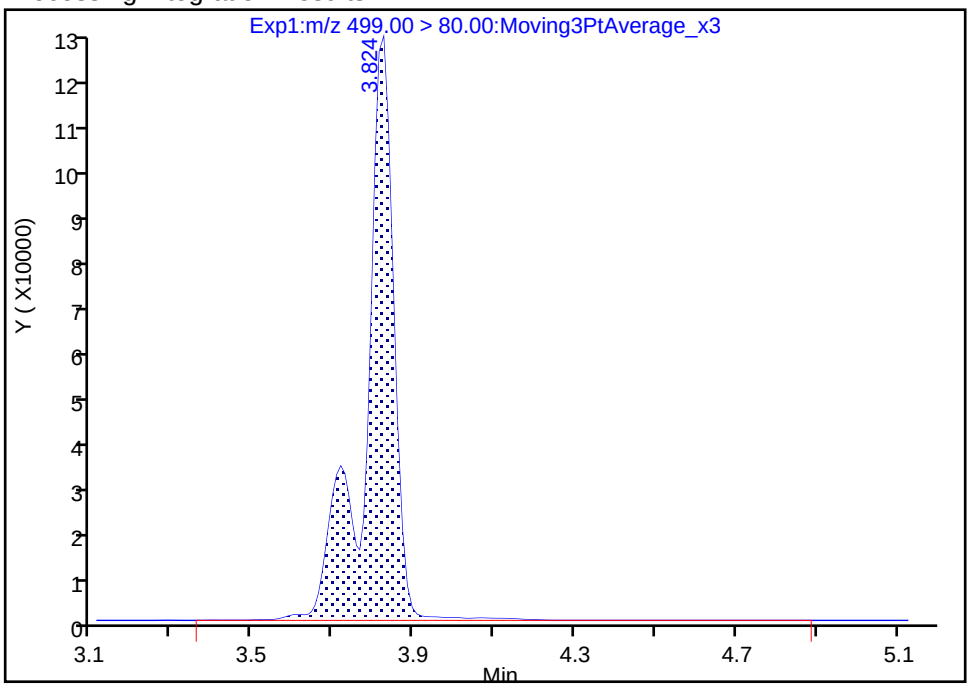
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL05.d				
Injection Date:	08-Jul-2021 15:43:53	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

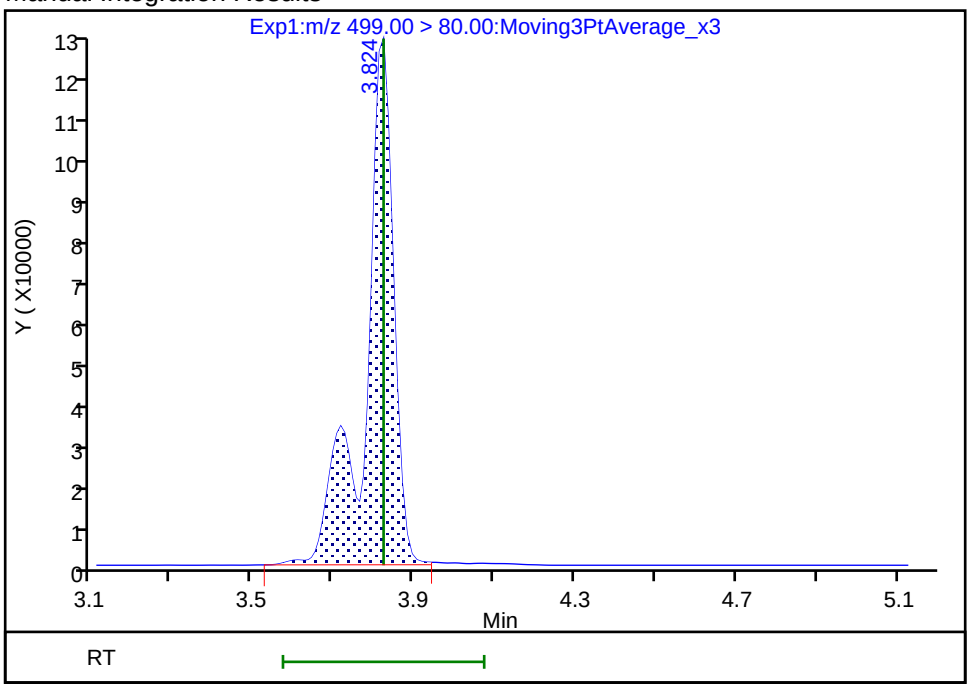
Processing Integration Results

RT: 3.82
Area: 646573
Amount: 0.898740
Amount Units: ng/ml



Manual Integration Results

RT: 3.82
Area: 636862
Amount: 0.918131
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:10:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

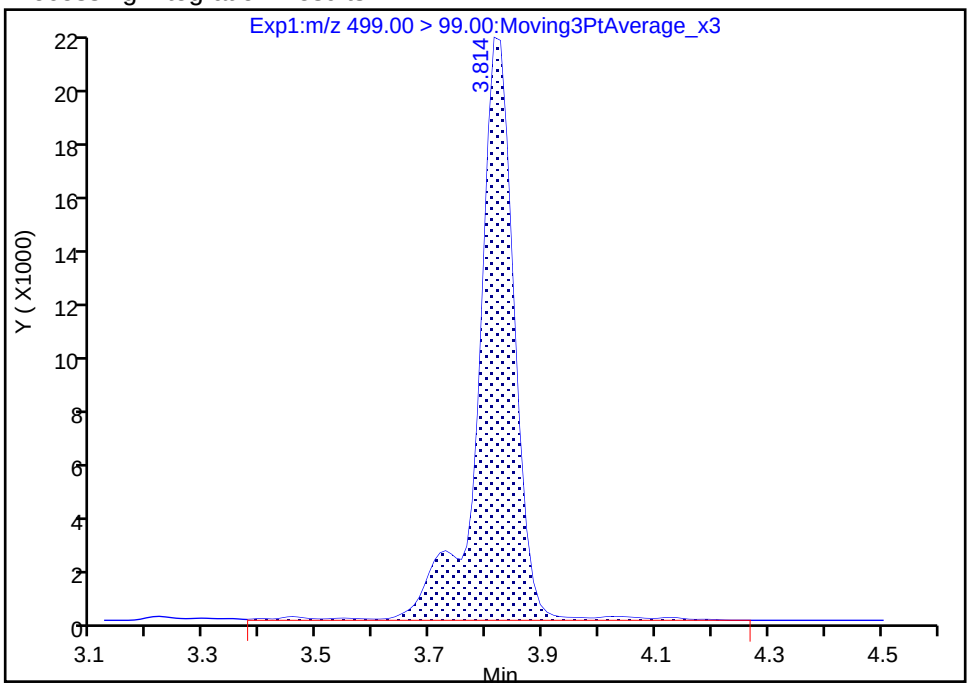
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL05.d				
Injection Date:	08-Jul-2021 15:43:53	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

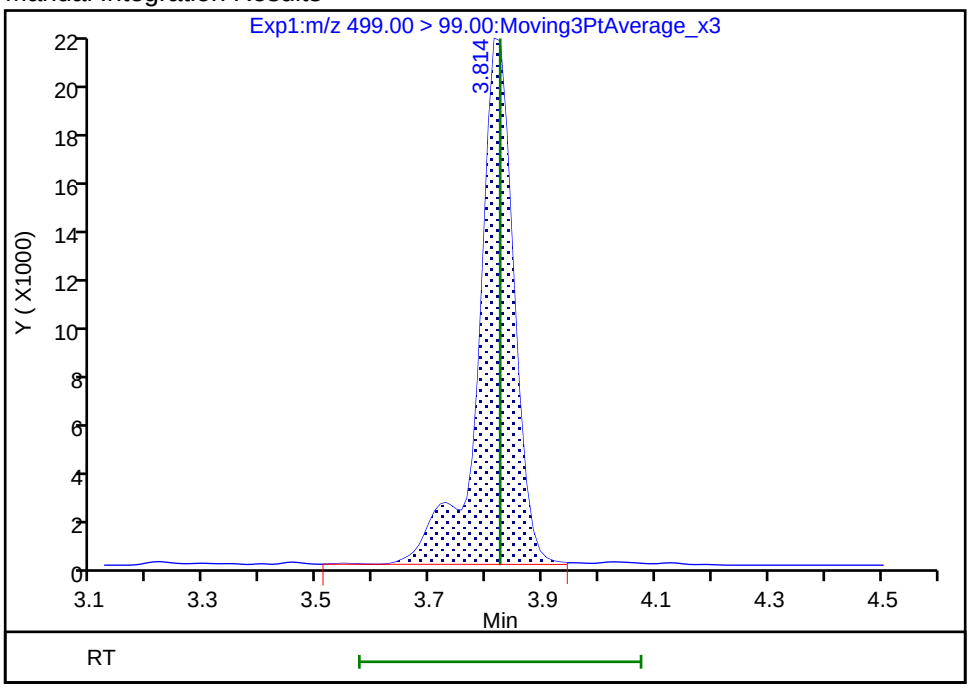
Processing Integration Results

RT: 3.81
Area: 97959
Amount: 0.898740
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 95227
Amount: 0.918131
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:10:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

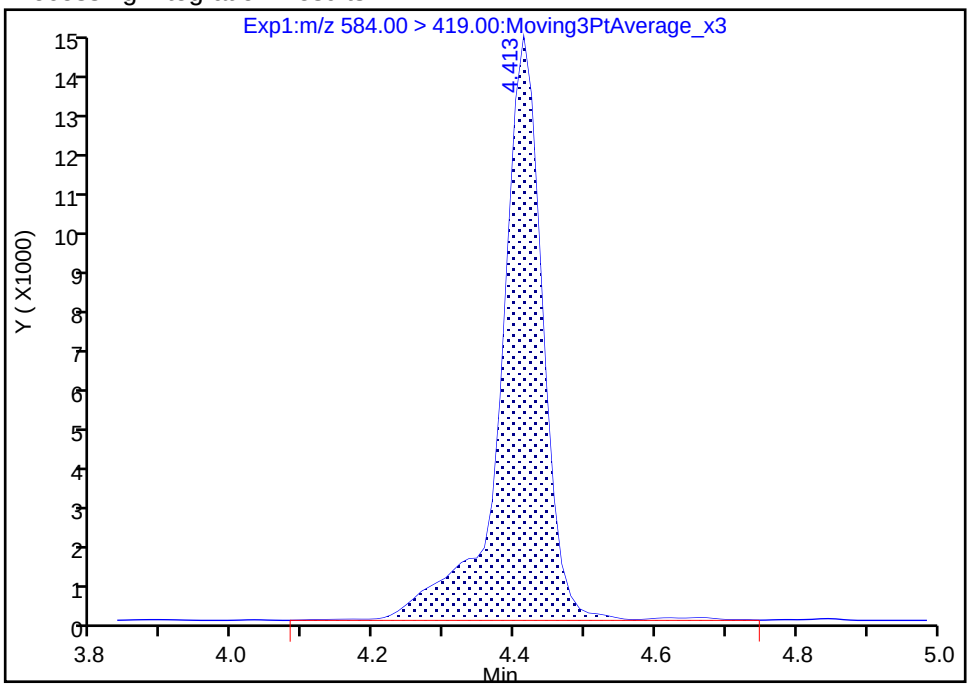
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL05.d				
Injection Date:	08-Jul-2021 15:43:53	Instrument ID:	LC812		
Lims ID:	ICIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

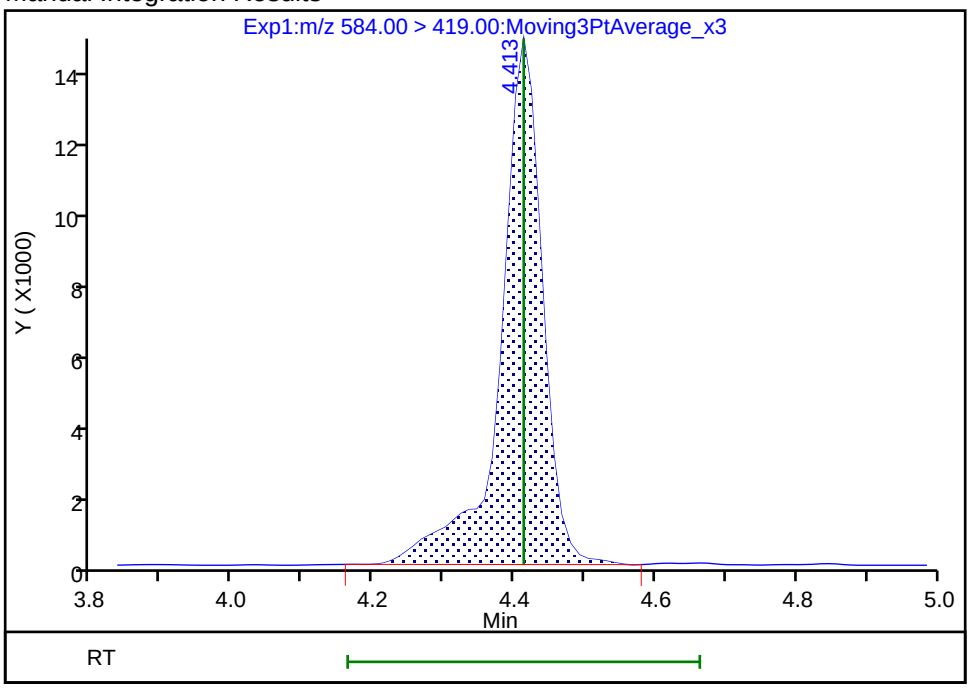
Processing Integration Results

RT: 4.41
Area: 62782
Amount: 1.016237
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 61816
Amount: 1.001157
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:10:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL06.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Jul-2021 15:52:09 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0046726-006 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 08-Jul-2021 16:35:32 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1667

First Level Reviewer: chirgwinb Date: 08-Jul-2021 16:12:39
Ratio Calibration: Average of Initial Calibration

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	2.109	2.109	0.0	0.602	1664959	1.23		98.4	8933	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.109	0.0	1.000	2973341	2.32		92.6	513	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.426	2.439	-0.013	0.693	1275812	1.25		99.7	3412	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.426	2.439	-0.013	1.000	2465672	2.33		93.4	335	
D 47 13C3 PFBS										
301.90 > 80.00	2.452	2.452	0.0	0.700	1236969	1.14		98.1	445277	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.452	2.452	0.0	1.000	2451187	2.13	Target=2.20	96.5	3668	
298.90 > 99.00	2.452	2.452	0.0	1.000	1094294		2.24(1.10-3.30)	96.5	732	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.746	2.758	-0.012	1.000	372466	2.28		97.6	4756	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.746	2.758	-0.012	0.784	98957	1.10		94.6	157	
D 7 13C2 PFHxA										
315.00 > 270.00	2.782	2.795	-0.013	0.795	1373463	1.22		97.4	5068	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.782	2.795	-0.013	1.000	2677863	2.42	Target=13.03	96.9	803	
313.00 > 119.00	2.782	2.795	-0.013	1.000	208806		12.82(6.51-19.54)	96.9	641	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.782	2.795	-0.013	0.885	2273386	2.22	Target=3.51	94.6	4755	
349.00 > 99.00	2.782	2.795	-0.013	0.885	657153		3.46(1.75-5.26)	94.6	1132	
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.879	2.902	-0.023	1.000	445626	2.58		103	166	

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	2.879	2.902	-0.023	0.823	130787	1.07		85.9	1091	
D 9 13C4 PFHpA										
367.00 > 322.00	3.143	3.154	-0.011	0.898	1380887	1.22		97.7	4295	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.143	3.154	-0.011	1.000	2724880	2.39	Target=3.67	95.4	1323	
363.00 > 169.00	3.143	3.154	-0.011	1.000	755821		3.61(1.84-5.51)	95.4	1793	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.143	3.154	-0.011	1.000	2137703	2.22	Target=4.55	97.4	3002	
399.00 > 99.00	3.143	3.154	-0.011	1.000	467083		4.58(2.28-6.83)	97.4	578	
D 11 18O2 PFHxS										
403.00 > 84.00	3.143	3.154	-0.011	0.898	985620	1.14		96.7	1900	
77 DONA										
377.00 > 251.00	3.175	3.196	-0.021	0.832	4885293	2.24	Target=2.55	95.0	3408	
377.00 > 85.00	3.175	3.196	-0.021	0.832	1928578		2.53(1.27-3.82)	95.0	2275	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.483	3.501	-0.018	0.913	1715703	2.22	Target=6.75	93.3	3468	
449.00 > 99.00	3.483	3.501	-0.018	0.913	256380		6.69(3.37-10.12)	93.3	1143	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.492	3.501	-0.009	0.997	134266	1.12		94.6	589	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.492	3.501	-0.009	1.000	258223	2.20		93.0	2200	
D 14 13C4 PFOA										
417.00 > 372.00	3.501	3.510	-0.009	1.000	1409693	1.21		96.6	3568	
* 62 13C2 PFOA										
415.00 > 370.00	3.501	3.510	-0.009		1477831	1.25			5036	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.501	3.510	-0.009	1.000	2790891	2.35	Target=2.67	94.1	1054	
413.00 > 169.00	3.501	3.510	-0.009	1.000	1077331		2.59(1.33-4.00)	94.1	2350	
D 18 13C4 PFOS										
503.00 > 80.00	3.814	3.814	0.0	1.089	741138	1.18		98.6	2059	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.814	3.824	-0.010	1.000	1527804	2.20	Target=6.26	94.7	1385	M
499.00 > 99.00	3.814	3.824	-0.010	1.000	241751		6.32(3.13-9.39)	94.7	604	M
D 19 13C5 PFNA										
468.00 > 423.00	3.836	3.836	0.0	1.096	1363020	1.23		98.3	3583	
20 Perfluorononanoic acid										
463.00 > 419.00	3.836	3.847	-0.011	1.000	2406459	2.28	Target=6.99	91.3	794	
463.00 > 169.00	3.836	3.847	-0.011	1.000	380439		6.33(3.49-10.48)	91.3	2801	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.973	3.983	-0.010	1.042	1710720	2.25		96.6	5602	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.103	4.104	-0.001	1.076	1197735	2.33	Target=3.17	97.0	5088	
549.00 > 99.00	4.103	4.104	-0.001	1.076	392869		3.05(1.58-4.75)	97.0	1286	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.137	0.0	1.182	1230009	1.22		97.8	6017	

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	4.137	4.137	0.0	1.000	2567573	2.45	Target=8.56	98.1	1669	
513.00 > 169.00	4.137	4.137	0.0	1.000	302192		8.50(4.28-12.83)	98.1	2401	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.137	4.148	-0.011	1.000	157764	2.22		92.6	2177	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.137	4.148	-0.011	1.182	170914	1.20		100	1048	
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.214	0.0	1.204	1355436	1.22		97.8	2543	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.214	4.214	0.0	1.000	2629389	2.48		99.2	3222	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.280	4.280	0.0	1.223	91401	1.24		98.9	146	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.280	4.280	0.0	1.000	153204	2.52		101	469	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.368	4.369	-0.001	1.145	885737	2.25	Target=2.85	93.6	2224	
599.00 > 99.00	4.368	4.369	-0.001	1.145	324908		2.73(1.42-4.27)	93.6	1683	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.402	4.402	0.0	1.000	1841978	2.44	Target=7.99	97.7	1764	
563.00 > 169.00	4.402	4.402	0.0	1.000	247499		7.44(4.00-11.99)	97.7	1908	
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.402	0.0	1.257	974207	1.22		97.7	3090	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.413	0.0	1.261	98283	1.28		102	815	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.413	0.0	1.000	156660	2.35		94.1	1006	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.492	4.492	0.0	1.178	1449620	2.31		98.1	2628	
D 36 13C2 PFDoA										
615.00 > 570.00	4.632	4.633	0.0	1.323	985706	1.20		95.6	3389	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.632	4.633	0.0	1.000	1974930	2.48	Target=6.41	99.2	635	
613.00 > 169.00	4.632	4.633	0.0	1.000	289625		6.82(3.21-9.62)	99.2	2164	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.653	4.643	0.010	1.125	90532	2.52		104	1843	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.810	4.801	0.009	1.261	314053	2.35	Target=0.46	97.1	3812	
699.00 > 99.00	4.810	4.801	0.009	1.261	686615		0.46(0.23-0.69)	97.1	3465	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.845	4.845	0.0	1.046	1626664	2.37	Target=4.67	94.8	613	
663.00 > 169.00	4.845	4.845	0.0	1.046	371522		4.38(2.33-7.00)	94.8	2012	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.034	5.034	0.0	1.438	793550	1.23		98.2	3411	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.043	5.034	0.009	1.002	255833	2.34	Target=1.01	93.8	3076	
713.00 > 219.00	5.034	5.034	0.0	1.000	265009		0.97(0.51-1.52)	93.8	4338	

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	5.394	5.383	0.011	1.000	1471114	2.39	Target=4.09	95.7	715	
813.00 > 169.00	5.394	5.383	0.011	1.000	353308		4.16(2.05-6.14)	95.7	4372	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.394	5.383	0.011	1.541	818537	1.24		99.5	2911	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.719	5.701	0.018	1.060	1375207	2.48	Target=3.78	99.2	690	
913.00 > 169.00	5.719	5.701	0.018	1.060	366127		3.76(1.89-5.67)	99.2	1886	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00019 Amount Added: 100.00 Units: uL

Report Date: 08-Jul-2021 16:35:33 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL06.d

Injection Date: 08-Jul-2021 15:52:09 Instrument ID: LC812

Lims ID: IC

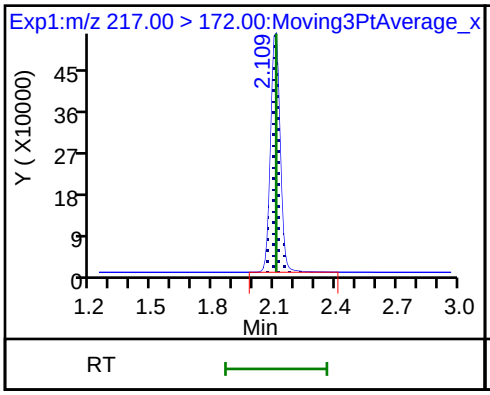
Client ID:

Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 6

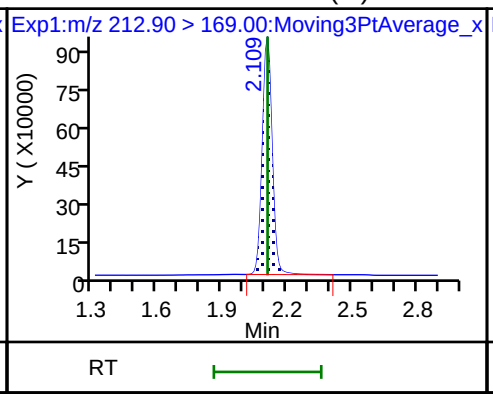
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Method: PFC_LC812 Limit Group: LC_PFC_ICAL

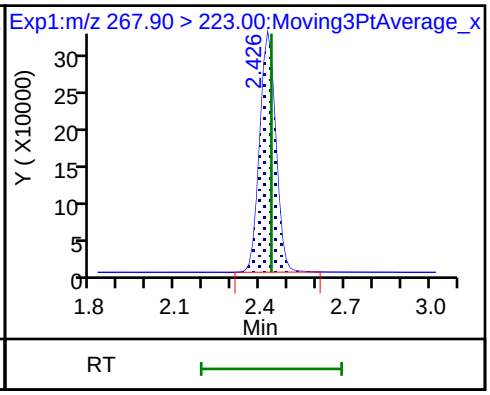
D 1 13C4 PFBA



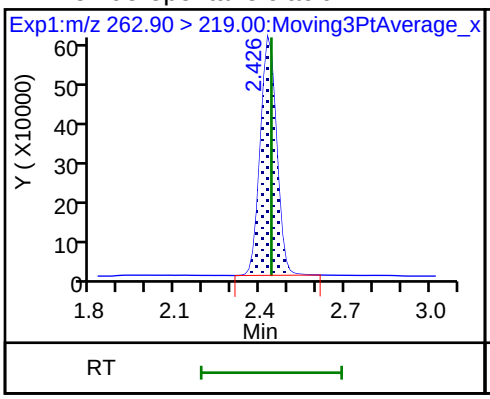
2 Perfluorobutanoic acid (M)



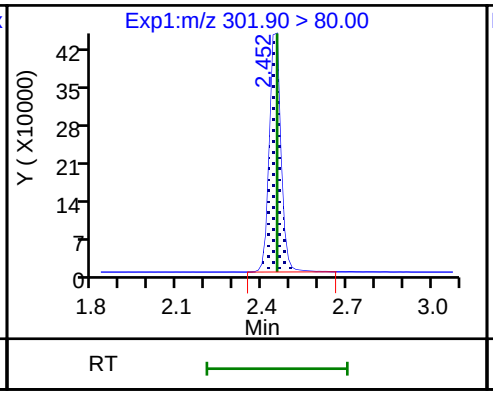
D 3 13C5 PFPeA



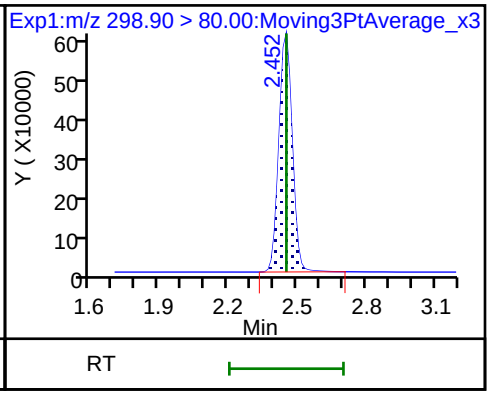
4 Perfluoropentanoic acid



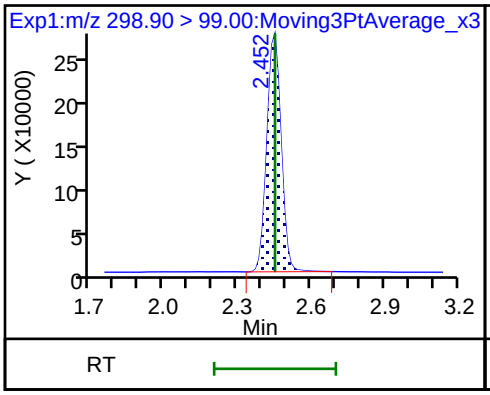
D 47 13C3 PFBS



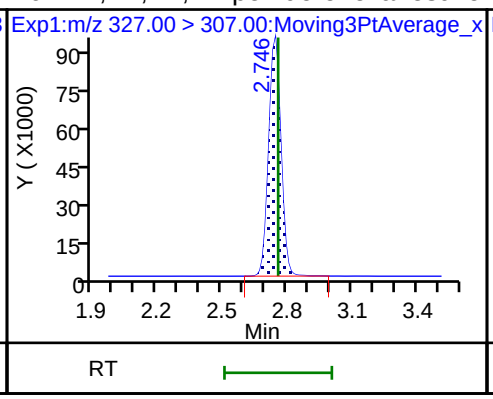
5 Perfluorobutanesulfonic acid



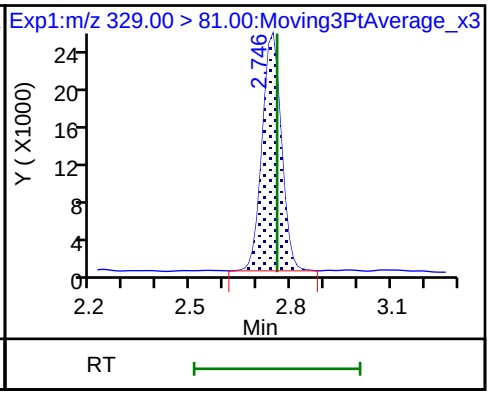
5 Perfluorobutanesulfonic acid



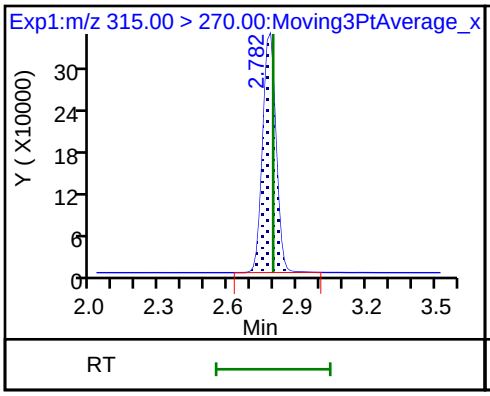
61 1H,1H,2H,2H-perfluorohexanesulfo



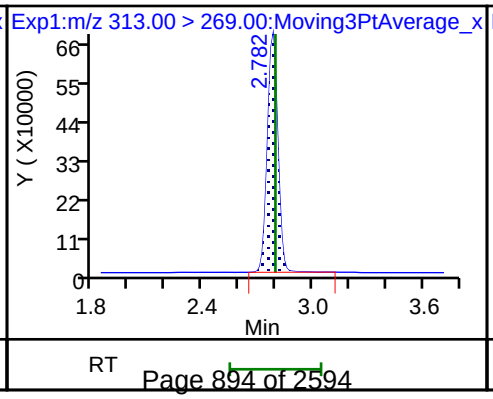
D 60 M2-4:2 FTS



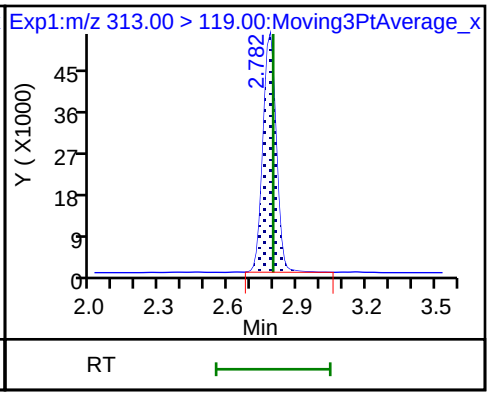
D 7 13C2 PFHxA



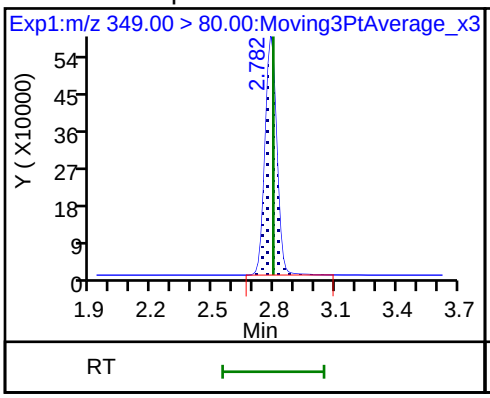
6 Perfluorohexanoic acid



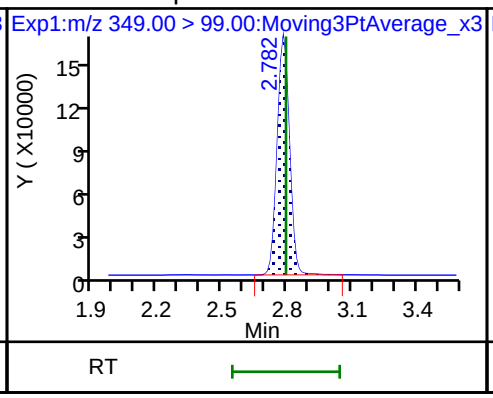
6 Perfluorohexanoic acid



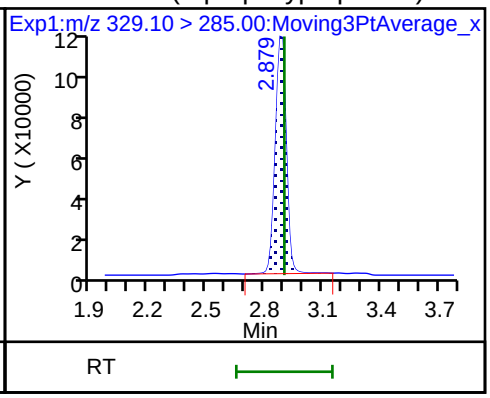
70 Perfluoropentanesulfonic acid



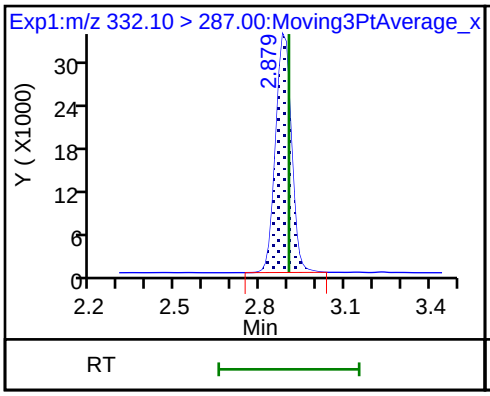
70 Perfluoropentanesulfonic acid



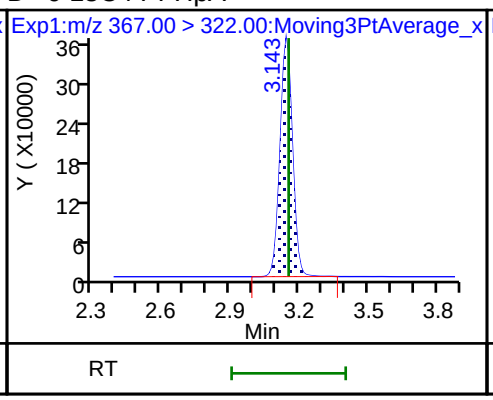
67 Perfluoro(2-propoxypropanoic) ac



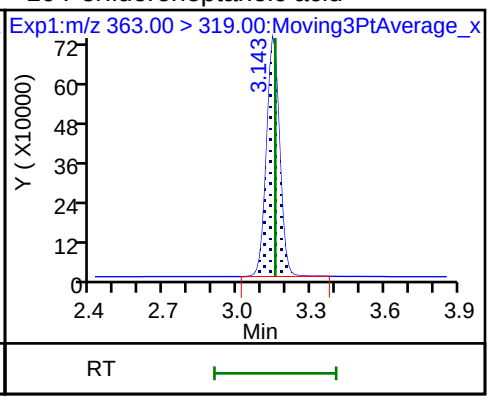
D 64 13C3 HFPO-DA



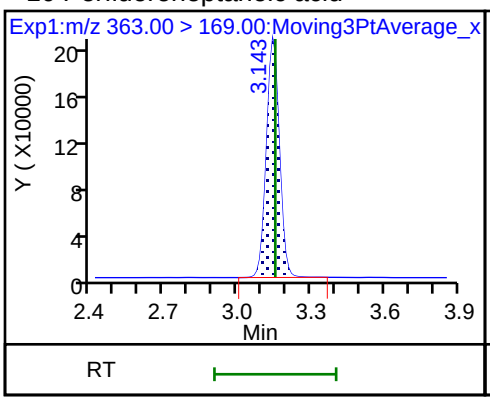
D 9 13C4 PFHpA



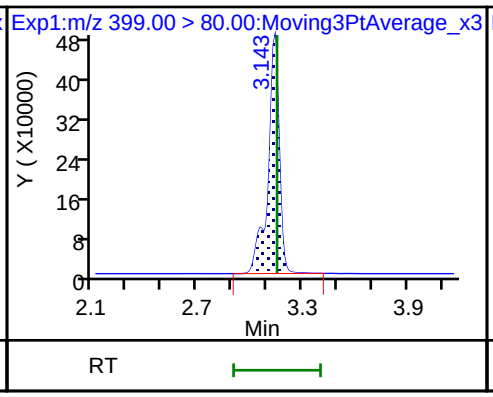
10 Perfluoroheptanoic acid



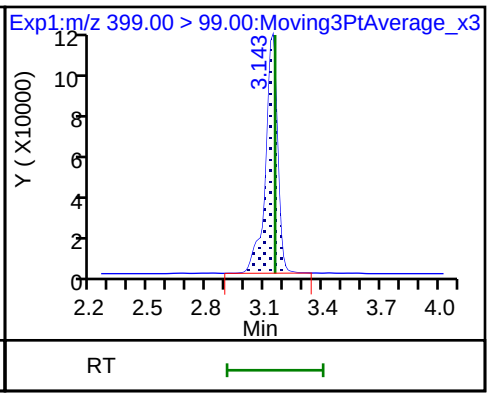
10 Perfluoroheptanoic acid



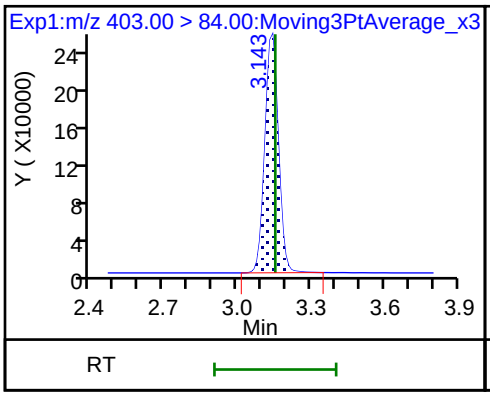
8 Perfluorohexanesulfonic acid



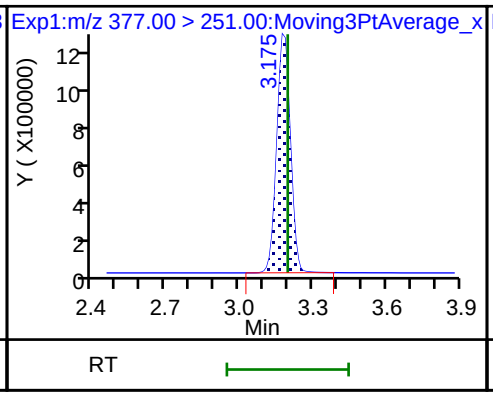
8 Perfluorohexanesulfonic acid



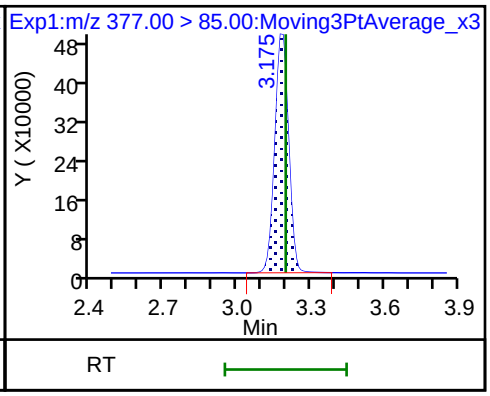
D 11 18O2 PFHxS



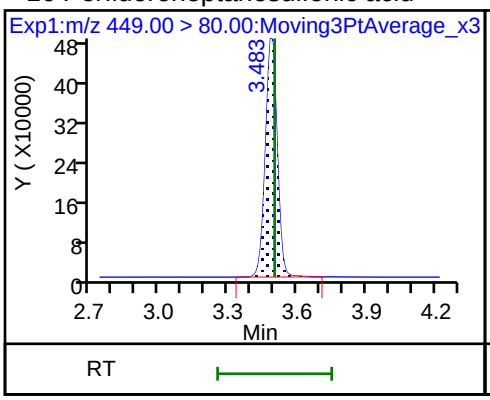
77 DONA



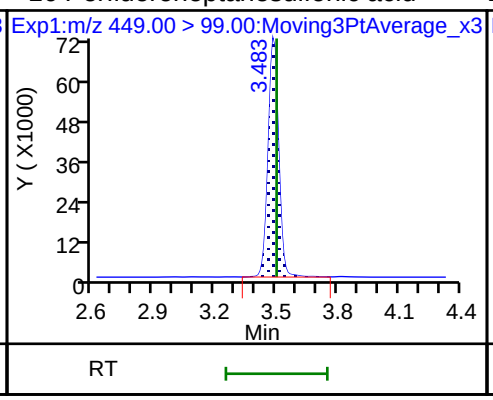
77 DONA



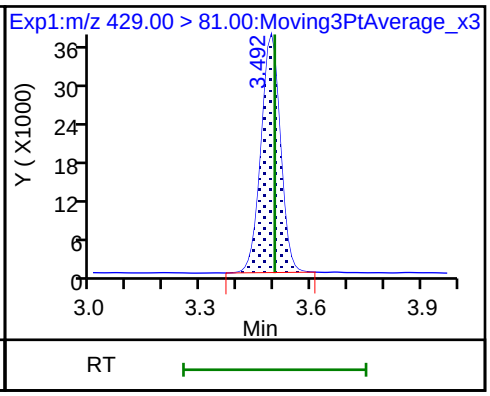
16 Perfluoroheptanesulfonic acid



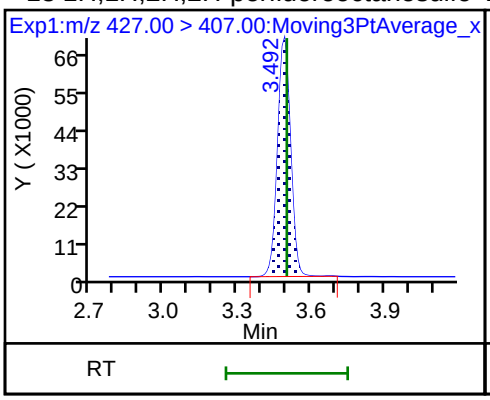
16 Perfluoroheptanesulfonic acid



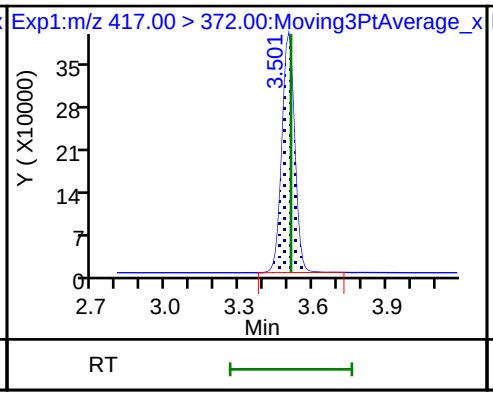
D 12 M2-6:2 FTS



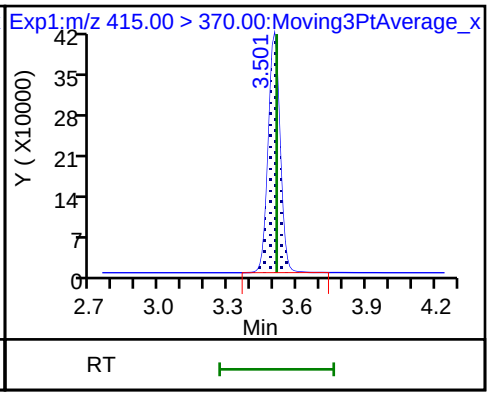
13 1H,1H,2H,2H-perfluorooctanesulfo



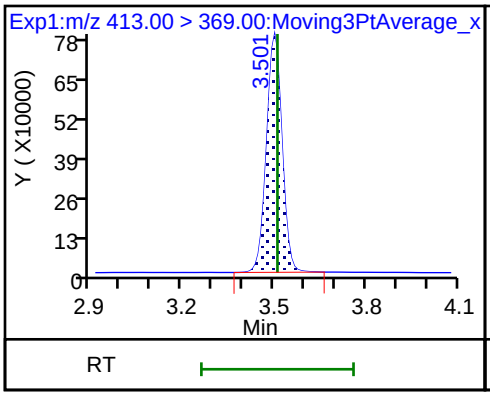
D 14 13C4 PFOA



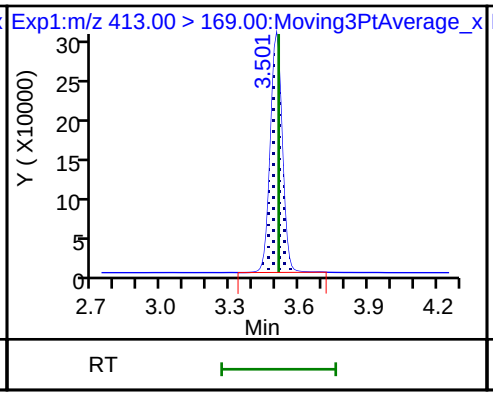
* 62 13C2 PFOA



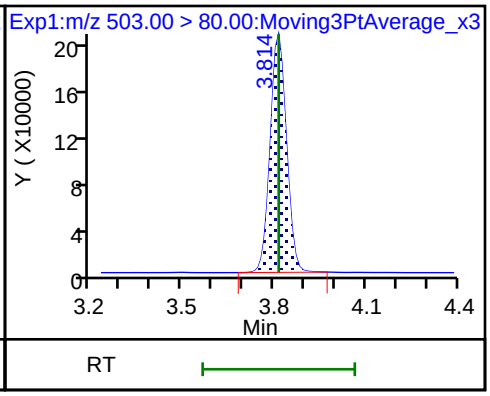
15 Perfluorooctanoic acid



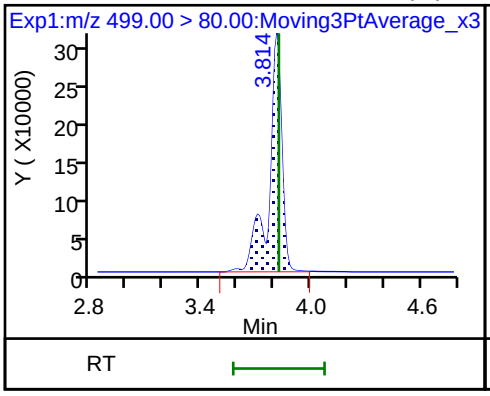
15 Perfluorooctanoic acid



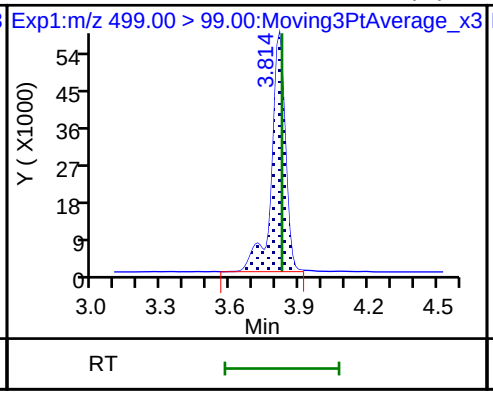
D 18 13C4 PFOS



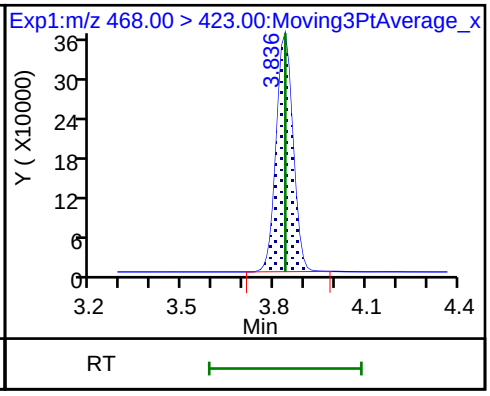
17 Perfluorooctanesulfonic acid (M)



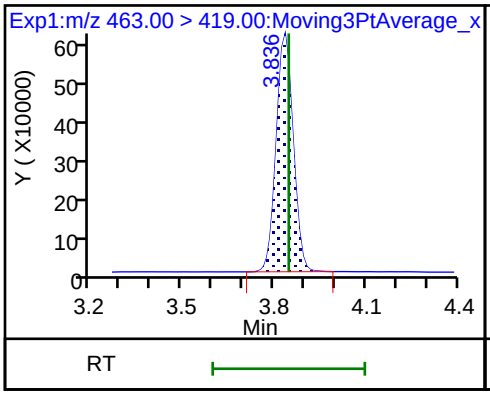
17 Perfluorooctanesulfonic acid (M)



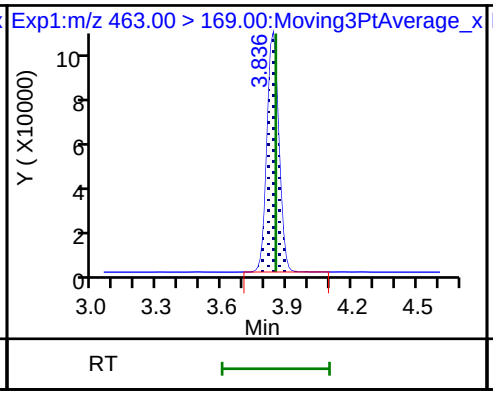
D 19 13C5 PFNA



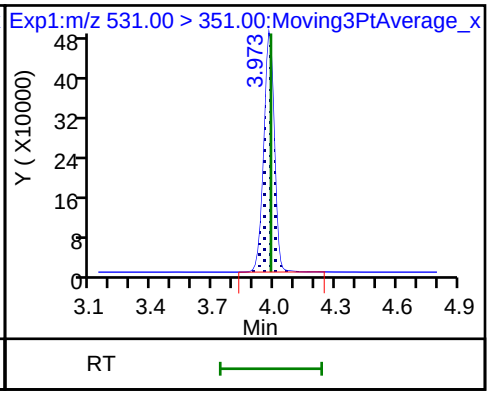
20 Perfluorononanoic acid



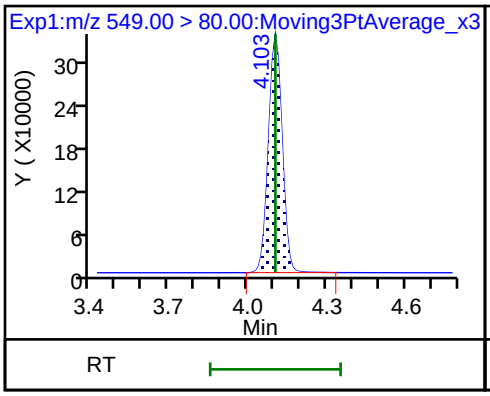
20 Perfluorononanoic acid



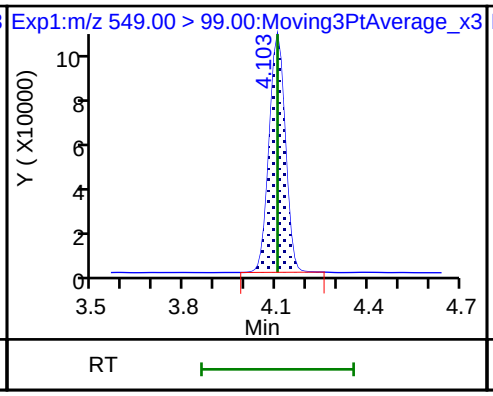
69 9-Chlorohexadecafluoro-3-oxanona



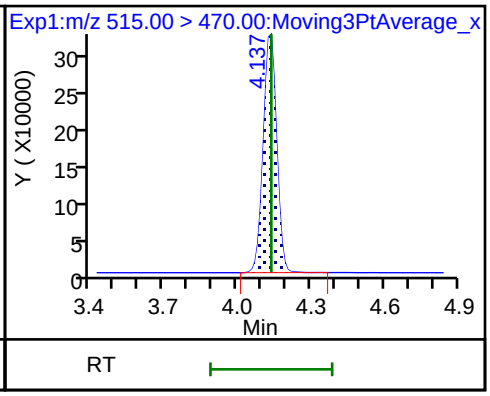
68 Perfluorononanesulfonic acid



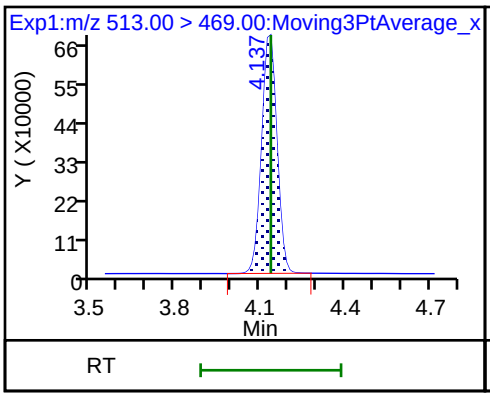
68 Perfluorononanesulfonic acid



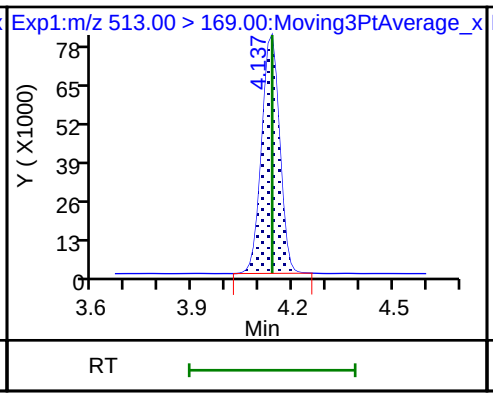
D 23 13C2 PFDA



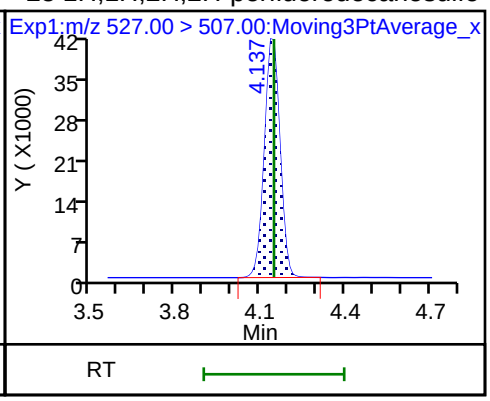
24 Perfluorodecanoic acid



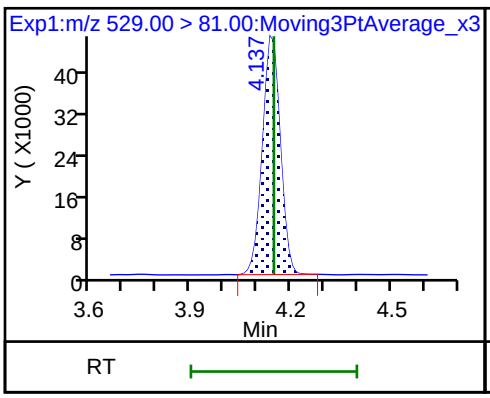
24 Perfluorodecanoic acid



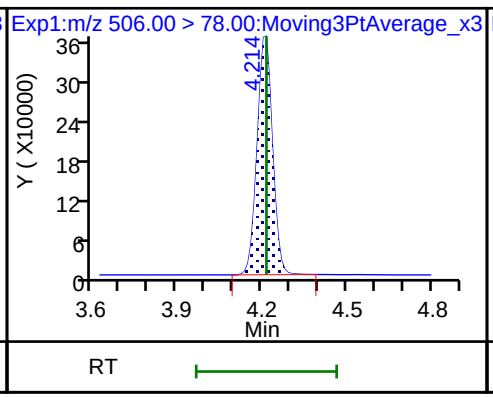
25 1H,1H,2H,2H-perfluorodecanesulfo



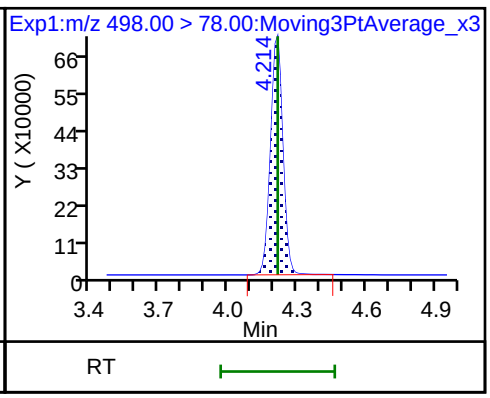
D 26 M2-8:2 FTS



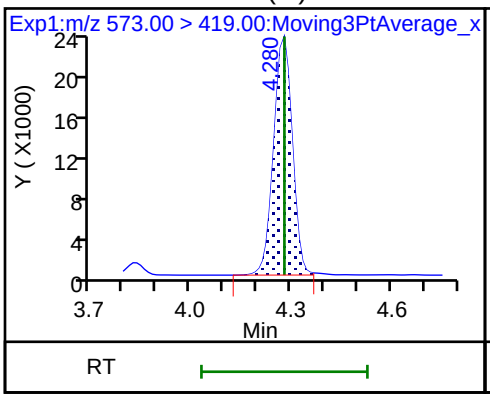
D 21 13C8 FOSA



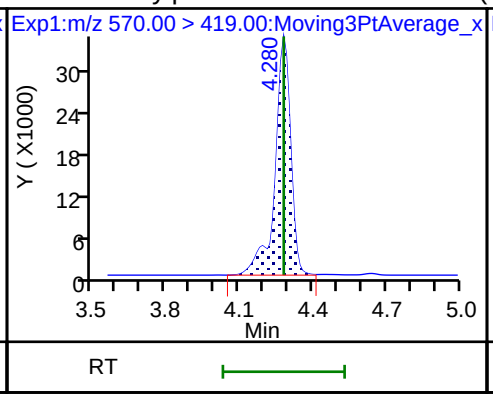
22 Perfluorooctanesulfonamide



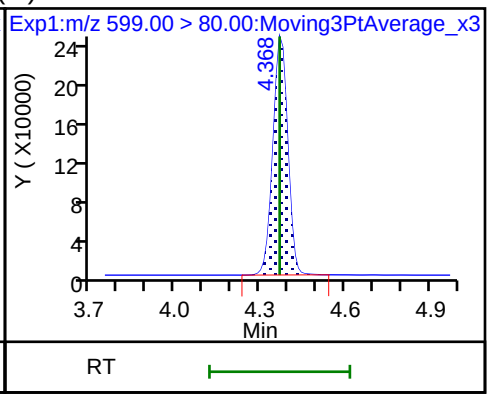
D 27 d3-NMeFOSAA (M)



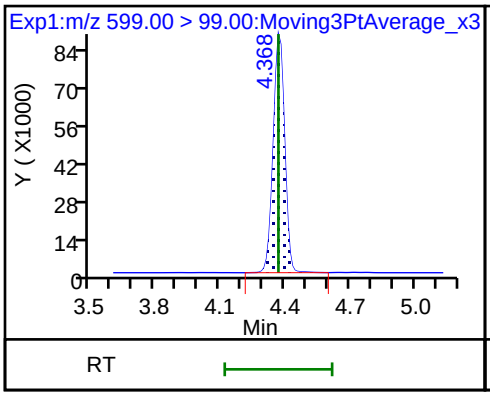
28 N-methylperfluorooctanesulfonami (M)



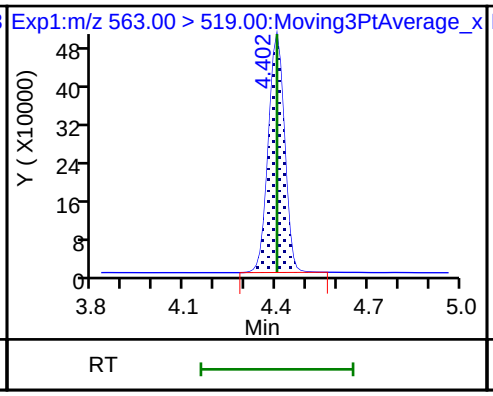
29 Perfluorodecanesulfonic acid



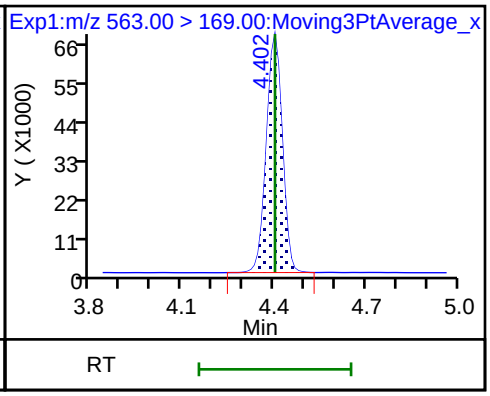
29 Perfluorodecanesulfonic acid



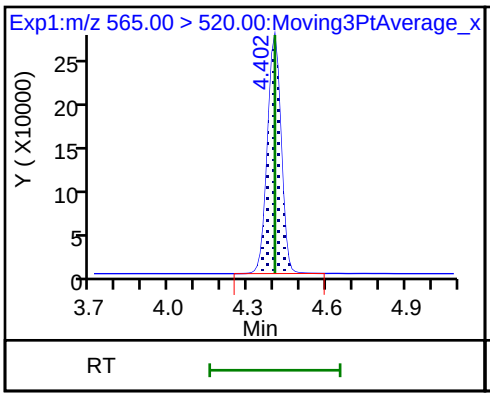
31 Perfluoroundecanoic acid



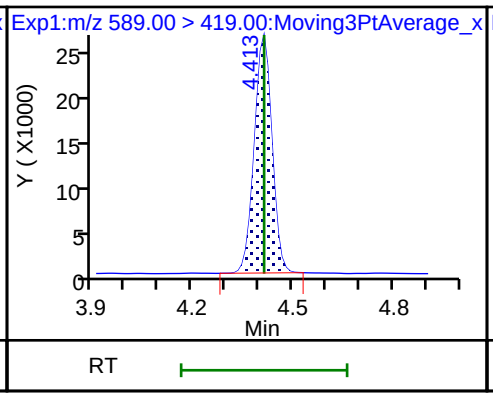
31 Perfluoroundecanoic acid



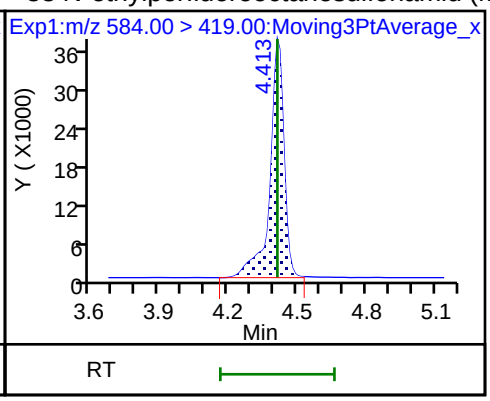
D 30 13C2 PFUnA



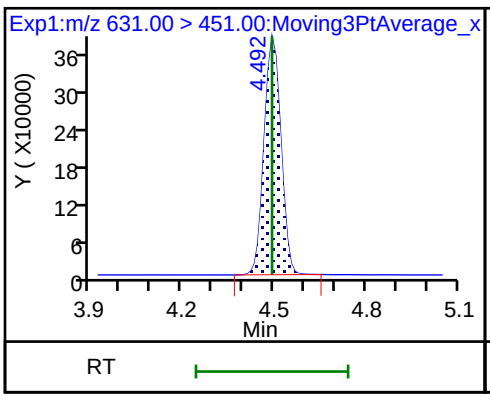
D 32 d5-NEtFOSAA



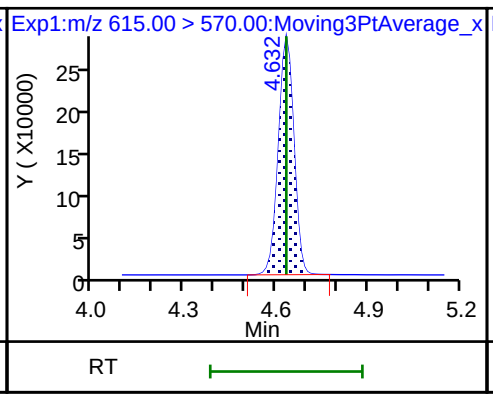
33 N-ethylperfluorooctanesulfonamid (M)



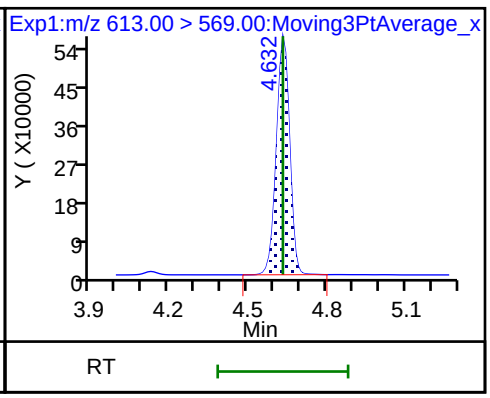
66 11-Chloroeicosafluoro-3-oxaundec



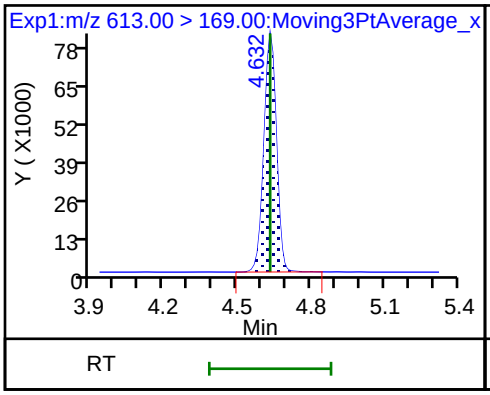
D 36 13C2 PFDoA



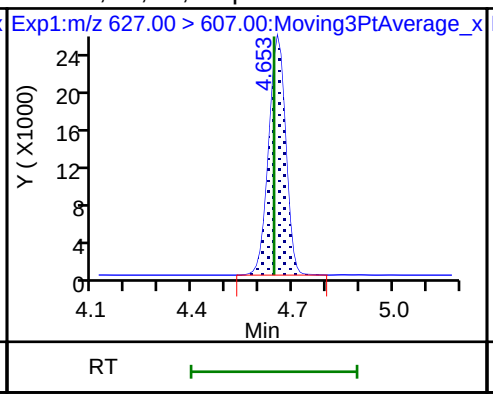
37 Perfluorododecanoic acid



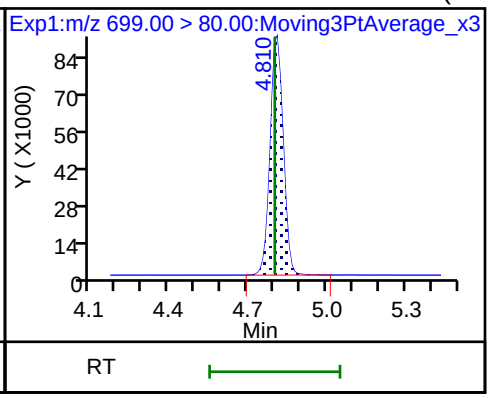
37 Perfluorododecanoic acid



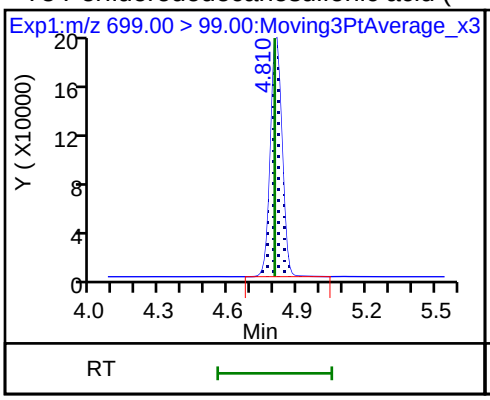
74 1H,1H,2H,2H-perfluorododecanesul



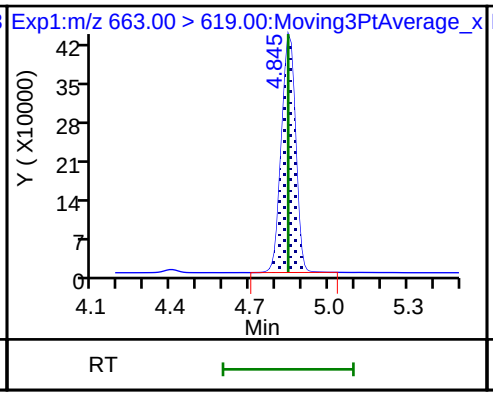
75 Perfluorododecanesulfonic acid (



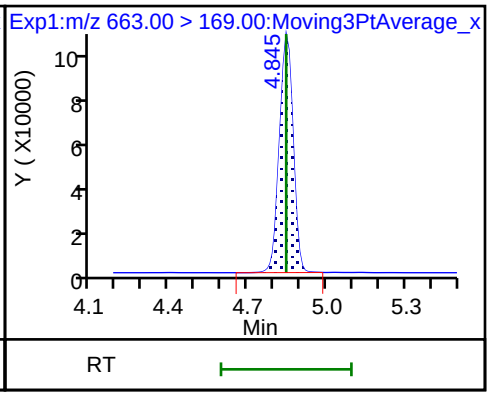
75 Perfluorododecanesulfonic acid (



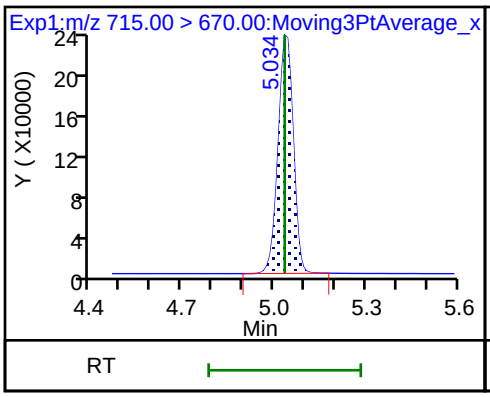
41 Perfluorotridecanoic acid



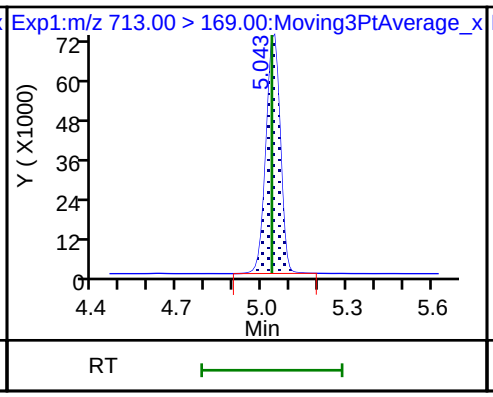
41 Perfluorotridecanoic acid



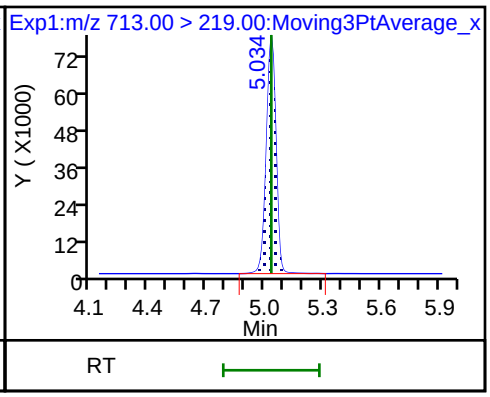
D 43 13C2 PFTeDA



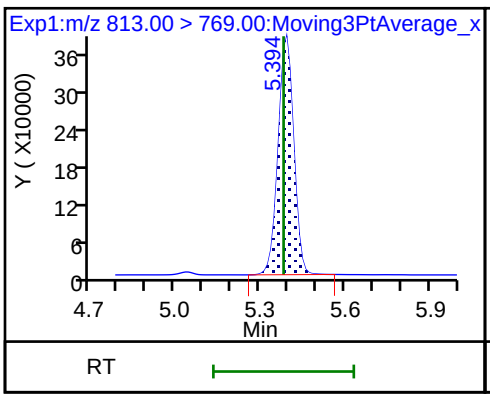
42 Perfluorotetradecanoic acid



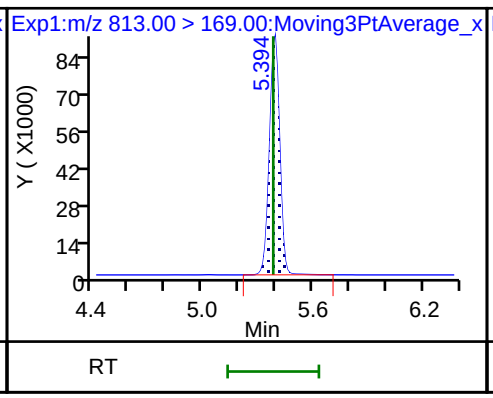
42 Perfluorotetradecanoic acid



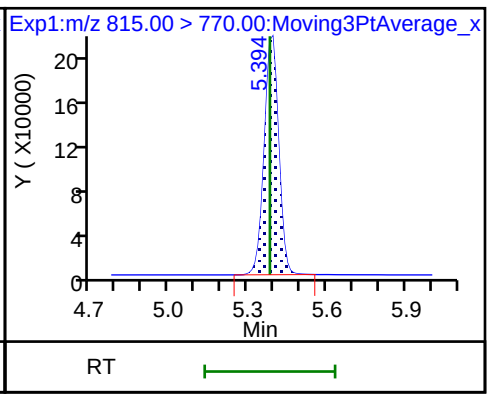
45 Perfluorohexadecanoic acid



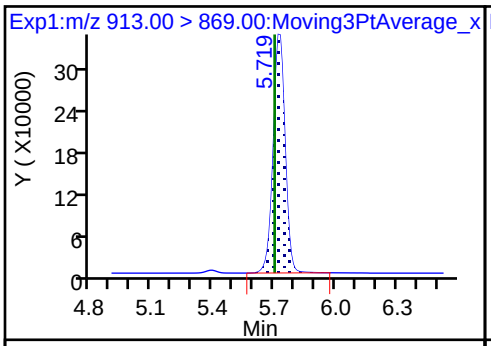
45 Perfluorohexadecanoic acid



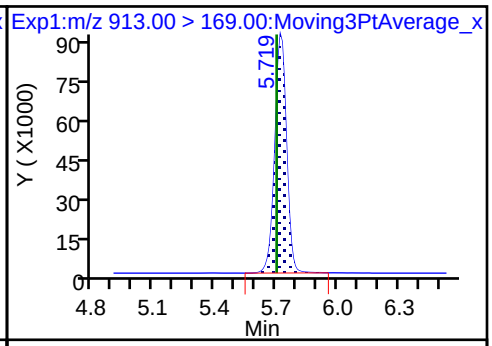
D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

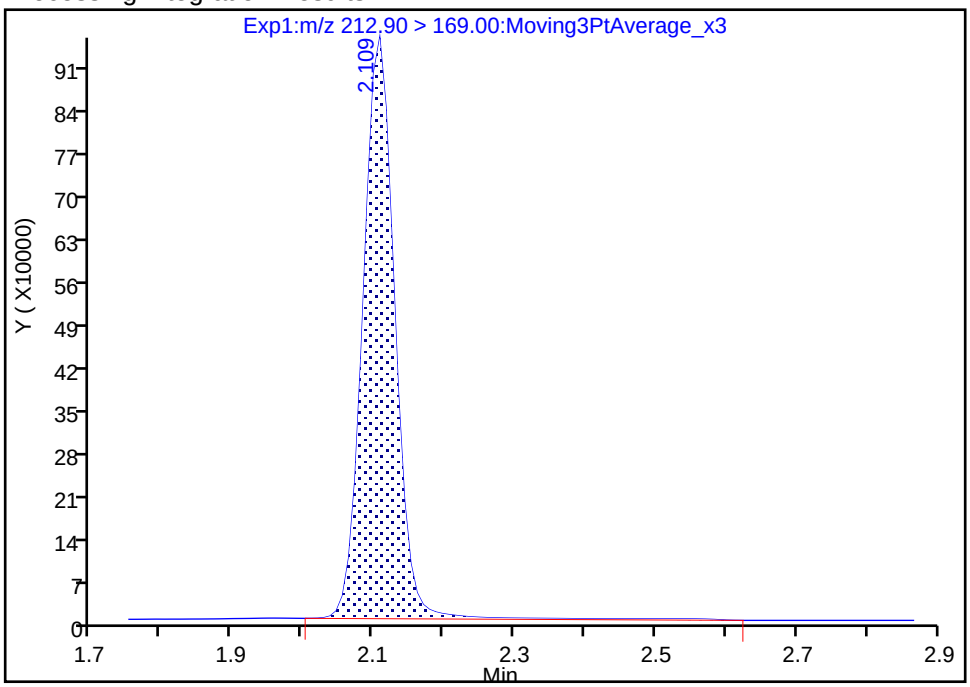
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Injection Date:	08-Jul-2021 15:52:09	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

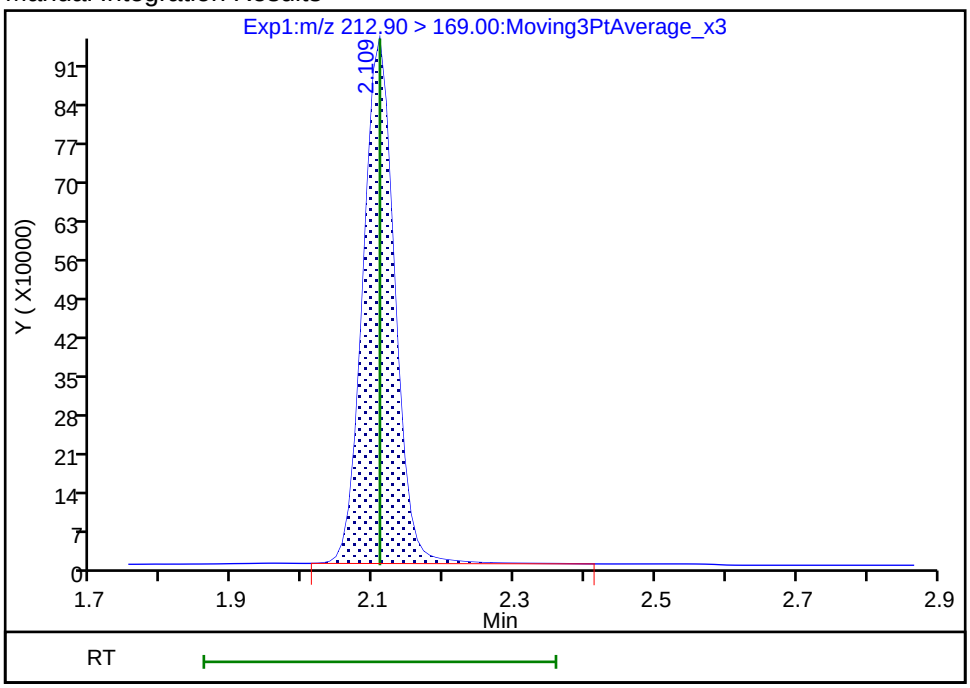
Processing Integration Results

RT: 2.11
Area: 3007915
Amount: 2.337809
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 2973341
Amount: 2.316239
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:19:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

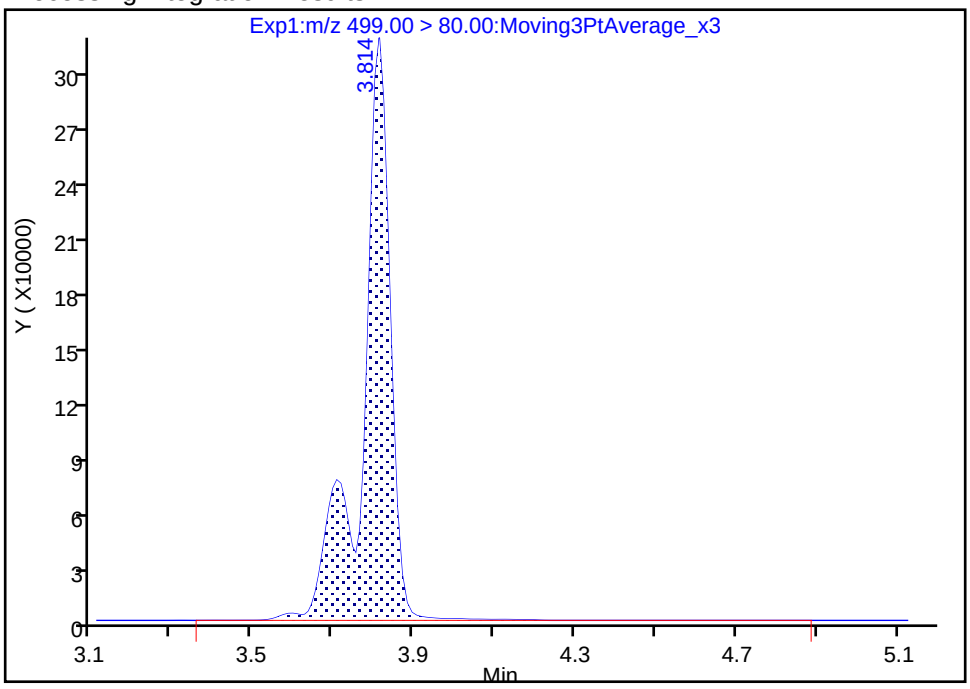
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Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

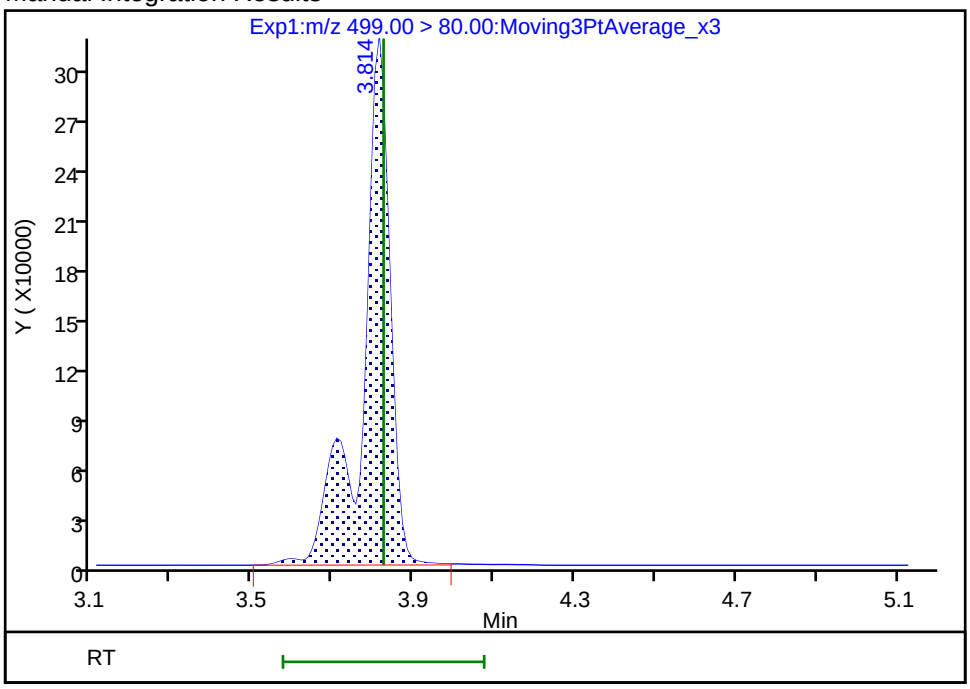
Processing Integration Results

RT: 3.81
Area: 1537672
Amount: 2.174436
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1527804
Amount: 2.198122
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:11:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

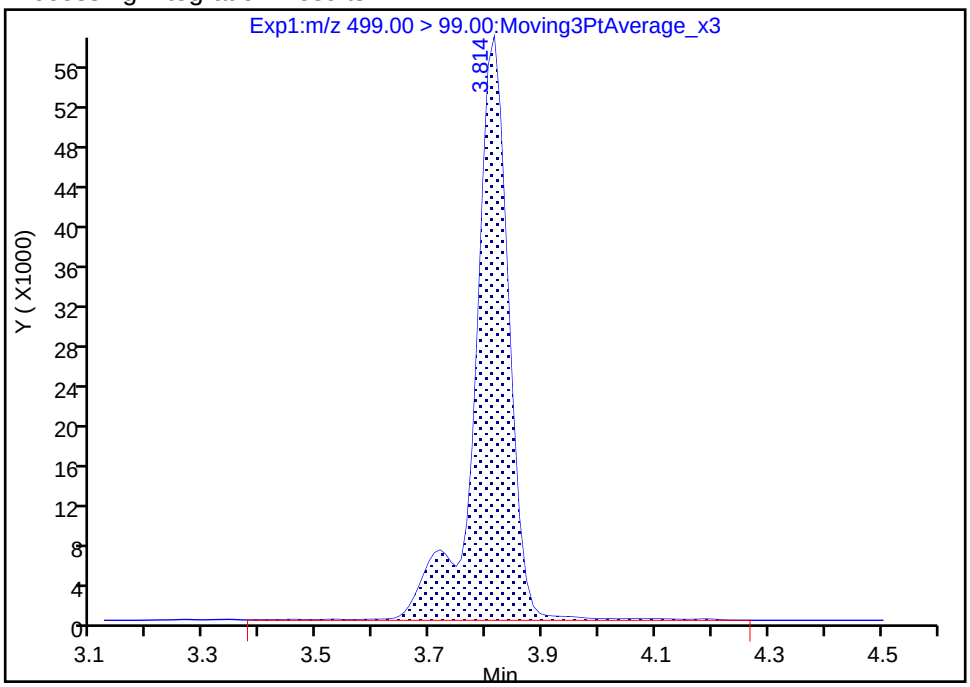
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Injection Date:	08-Jul-2021 15:52:09	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

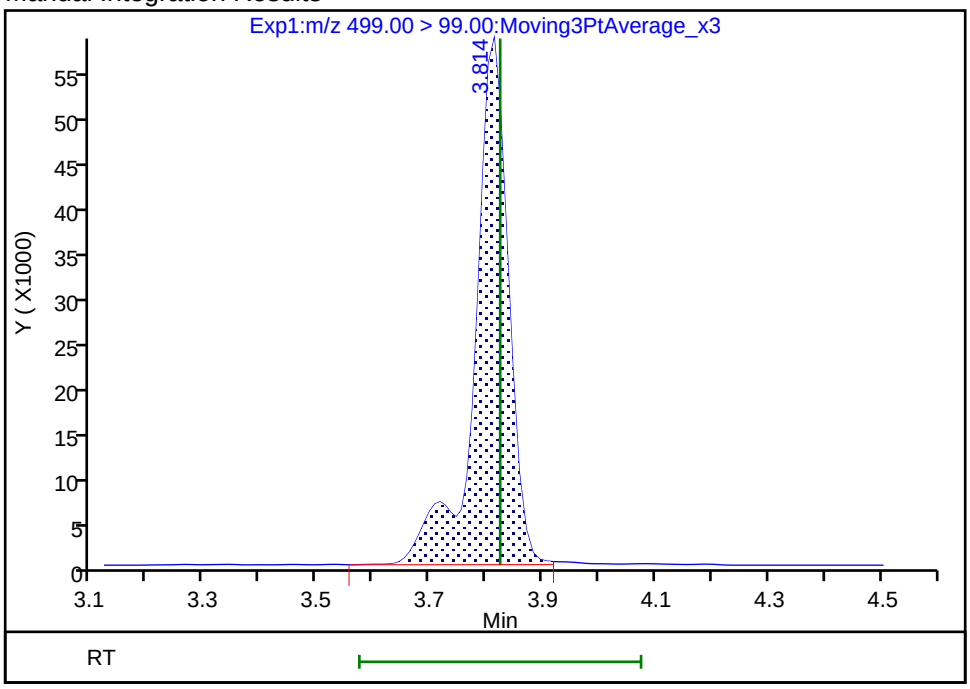
Processing Integration Results

RT: 3.81
Area: 246638
Amount: 2.174436
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 241751
Amount: 2.198122
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:11:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

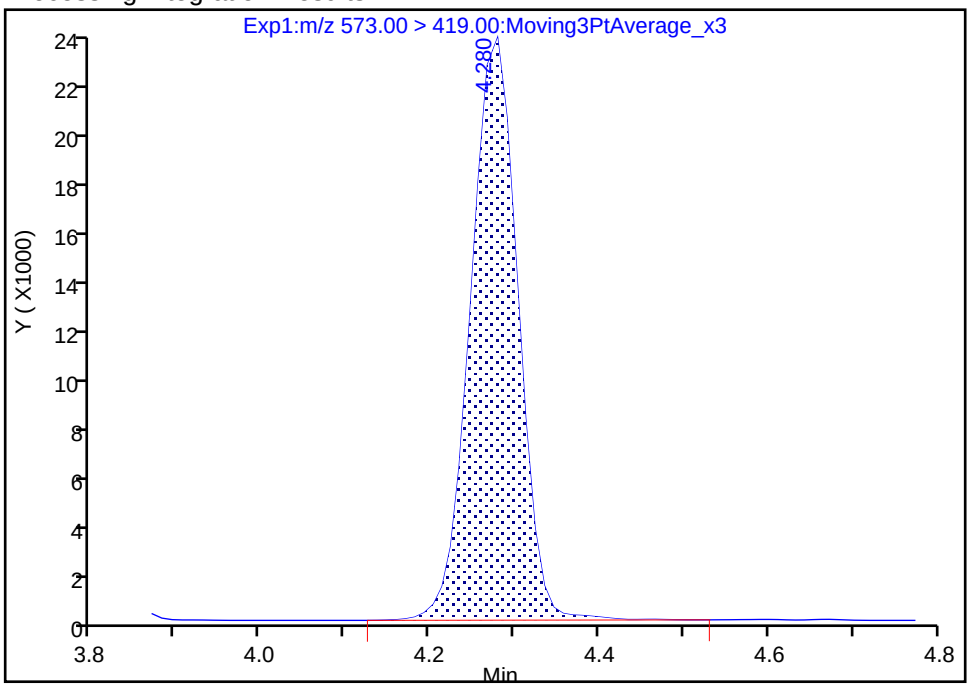
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Injection Date:	08-Jul-2021 15:52:09	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

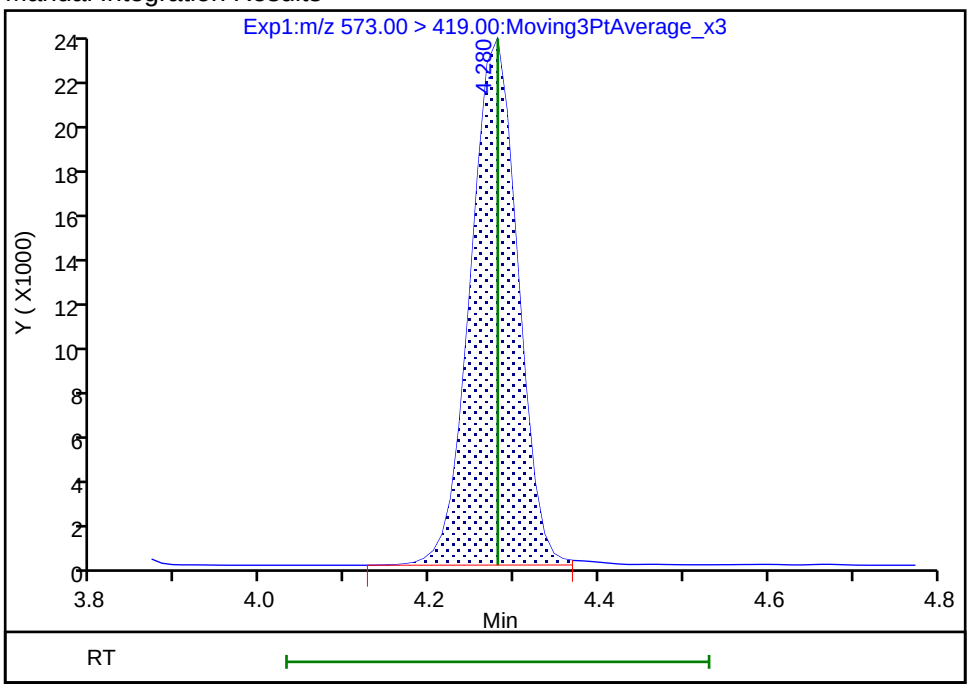
Processing Integration Results

RT: 4.28
Area: 91916
Amount: 1.261467
Amount Units: ng/ml



Manual Integration Results

RT: 4.28
Area: 91401
Amount: 1.235694
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:12:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

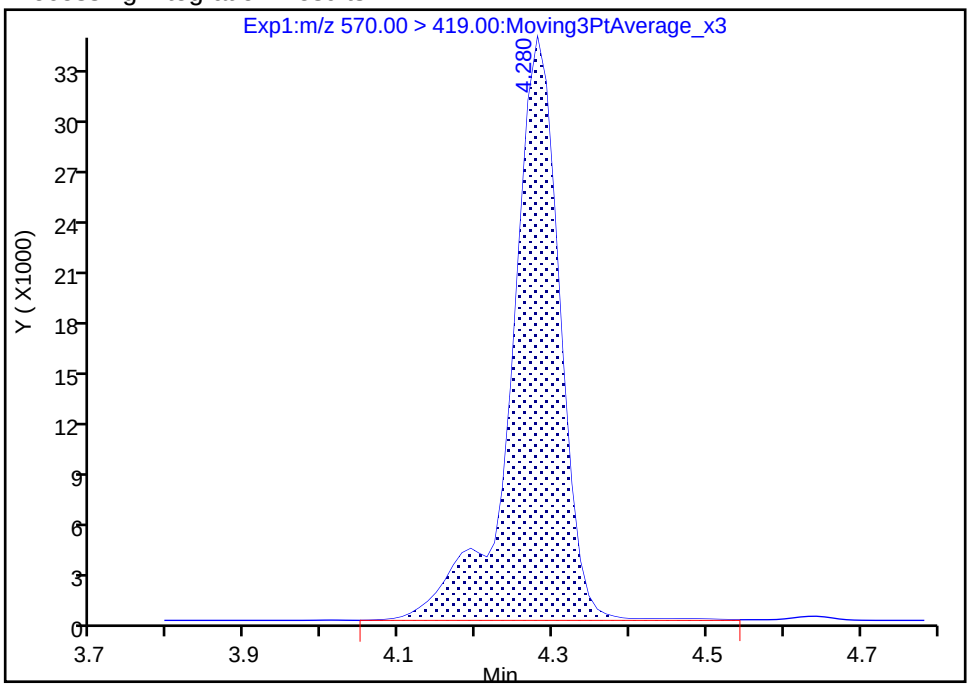
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Injection Date:	08-Jul-2021 15:52:09	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

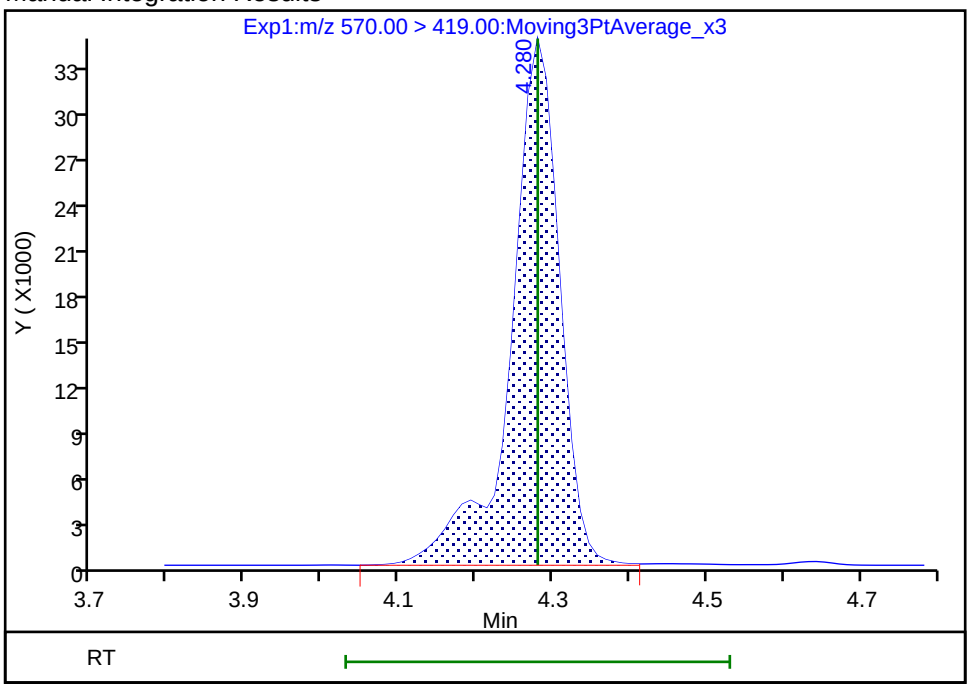
Processing Integration Results

RT: 4.28
Area: 153820
Amount: 2.529395
Amount Units: ng/ml



Manual Integration Results

RT: 4.28
Area: 153204
Amount: 2.520445
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:12:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

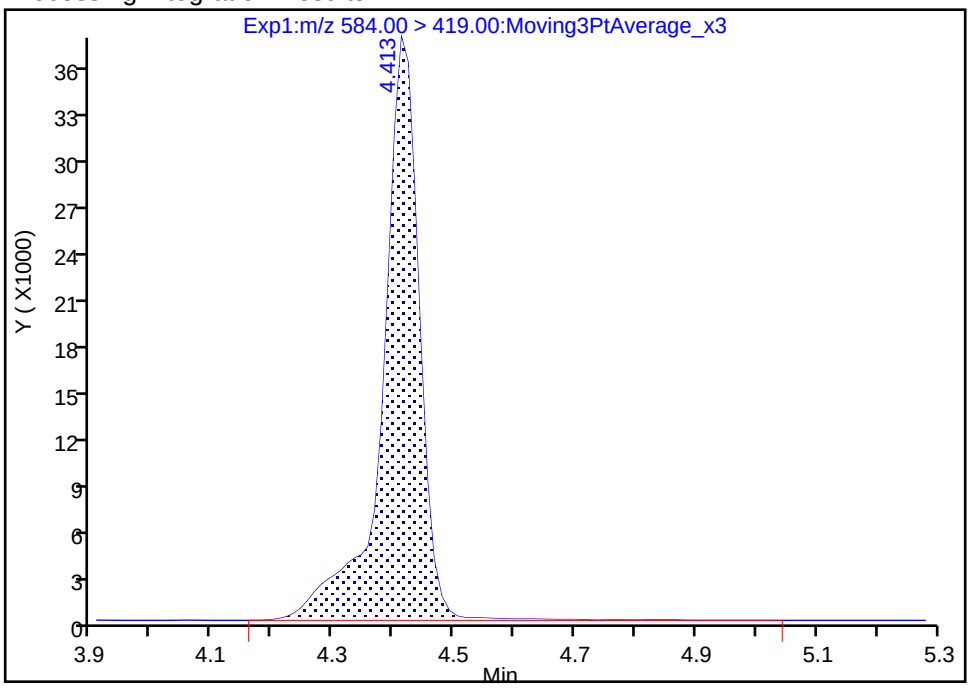
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Injection Date: 08-Jul-2021 15:52:09 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

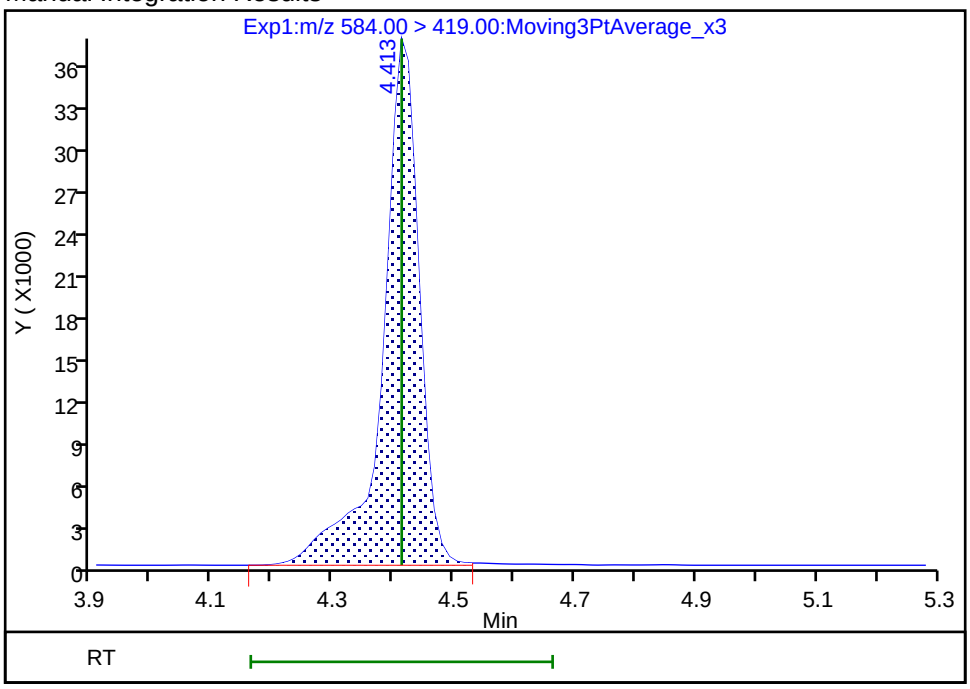
Processing Integration Results

RT: 4.41
Area: 157841
Amount: 2.464267
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 156660
Amount: 2.351847
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:12:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Jul-2021 16:00:26 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 200-0046726-007 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 08-Jul-2021 16:35:37 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1667

First Level Reviewer: chirgwinb Date: 08-Jul-2021 16:18:49
Ratio Calibration: Average of Initial Calibration

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	2.100	2.109	-0.009	0.598	1518841	1.28		103	7852	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.109	0.0	1.004	10819800	9.24		92.4	1751	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.426	2.439	-0.013	0.691	1147675	1.28		103	3517	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.426	2.439	-0.013	1.000	8811809	9.27		92.7	1077	
D 47 13C3 PFBS										
301.90 > 80.00	2.439	2.452	-0.013	0.695	1196640	1.26		109	447905	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.452	2.452	0.0	1.005	8904613	8.01	Target=2.20	90.6	5253	M
298.90 > 99.00	2.452	2.452	0.0	1.005	4165663		2.14(1.10-3.30)	90.6	2410	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.746	2.758	-0.012	1.000	1406486	9.39		101	4145	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.746	2.758	-0.012	0.782	90668	1.16		99.2	144	
D 7 13C2 PFHxA										
315.00 > 270.00	2.782	2.795	-0.013	0.793	1243956	1.26		101	2622	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.782	2.795	-0.013	1.000	9687309	9.68	Target=13.03	96.8	2304	M
313.00 > 119.00	2.782	2.795	-0.013	1.000	776608		12.47(6.51-19.54)	96.8	1593	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.794	2.795	-0.001	0.889	8735896	8.98	Target=3.51	95.8	47996	
349.00 > 99.00	2.782	2.795	-0.013	0.885	2502068		3.49(1.75-5.26)	95.8	2439	
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.892	2.902	-0.010	1.000	1774905	8.96		89.6	600	

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	2.892	2.902	-0.010	0.824	149725	1.41		113	1468	
D 9 13C4 PFHpA										
367.00 > 322.00	3.153	3.154	-0.001	0.898	1230462	1.25		99.6	2906	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.153	3.154	-0.001	1.000	9784969	9.61	Target=3.67	96.1	2770	
363.00 > 169.00	3.153	3.154	-0.001	1.000	2648070		3.70(1.84-5.51)	96.1	3705	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.143	3.154	-0.011	1.000	7740789	8.45	Target=4.55	92.9	21768	
399.00 > 99.00	3.143	3.154	-0.011	1.000	1726222		4.48(2.28-6.83)	92.9	2605	
D 11 18O2 PFHxS										
403.00 > 84.00	3.143	3.154	-0.011	0.895	935670	1.24		105	1809	
77 DONA										
377.00 > 251.00	3.186	3.196	-0.010	0.835	17987485	8.89	Target=2.55	94.3	9555	
377.00 > 85.00	3.186	3.196	-0.010	0.835	7309448		2.46(1.27-3.82)	94.3	5030	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.492	3.501	-0.009	0.916	6640886	9.28	Target=6.75	97.5	19245	
449.00 > 99.00	3.492	3.501	-0.009	0.916	969170		6.85(3.37-10.12)	97.5	2267	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.492	3.501	-0.009	0.995	128370	1.23		104	560	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.492	3.501	-0.009	1.000	1021725	9.12		96.2	1093	
D 14 13C4 PFOA										
417.00 > 372.00	3.501	3.510	-0.009	0.997	1287896	1.26		101	2158	
* 62 13C2 PFOA										
415.00 > 370.00	3.510	3.510	0.0		1291308	1.25			3182	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.510	3.510	0.0	1.003	9860180	9.09	Target=2.67	90.9	2270	
413.00 > 169.00	3.501	3.510	-0.009	1.000	3994502		2.47(1.33-4.00)	90.9	6311	
D 18 13C4 PFOS										
503.00 > 80.00	3.814	3.814	0.0	1.087	686805	1.25		105	1146	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.814	3.824	-0.010	1.000	5493096	8.53	Target=6.26	91.9	1887	M
499.00 > 99.00	3.814	3.824	-0.010	1.000	863393		6.36(3.13-9.39)	91.9	1633	M
D 19 13C5 PFNA										
468.00 > 423.00	3.836	3.836	0.0	1.093	1250471	1.29		103	4301	
20 Perfluorononanoic acid										
463.00 > 419.00	3.836	3.847	-0.011	1.000	9308892	9.62	Target=6.99	96.2	2266	
463.00 > 169.00	3.836	3.847	-0.011	1.000	1352233		6.88(3.49-10.48)	96.2	4900	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.973	3.983	-0.010	1.042	6381297	9.06		97.2	11745	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.103	4.104	-0.001	1.076	4367470	9.16	Target=3.17	95.4	10407	
549.00 > 99.00	4.103	4.104	-0.001	1.076	1455596		3.00(1.58-4.75)	95.4	4218	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.137	0.0	1.179	1138132	1.30		104	3152	

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	4.137	4.137	0.0	1.000	8502291	8.77	Target=8.56	87.7	3892	
513.00 > 169.00	4.137	4.137	0.0	1.000	1089634		7.80(4.28-12.83)	87.7	3875	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.148	4.148	0.0	1.000	603012	9.47		98.8	3795	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.148	4.148	0.0	1.182	153059	1.23		103	754	
D 21 13C8 FOSA										
506.00 > 78.00	4.204	4.214	-0.010	1.198	1211121	1.25		100.0	2172	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.204	4.214	-0.010	1.000	8983989	9.48		94.8	6551	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.280	0.0	1.219	87263	1.35		108	60.8	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.280	4.280	0.0	1.000	563736	9.71		97.1	1726	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.368	4.369	-0.001	1.145	3437140	9.44	Target=2.85	97.9	4353	
599.00 > 99.00	4.368	4.369	-0.001	1.145	1216094		2.83(1.42-4.27)	97.9	5835	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.402	4.402	0.0	1.000	6813912	10.1	Target=7.99	101	4506	
563.00 > 169.00	4.402	4.402	0.0	1.000	842937		8.08(4.00-11.99)	101	3333	
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.402	0.0	1.254	871958	1.25		100	5161	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.413	0.0	1.257	82615	1.23		98.2	942	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.413	4.413	0.0	1.000	578635	10.3		103	5572	
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.492	4.492	0.0	1.178	5309315	9.13		96.9	7096	
D 36 13C2 PFDoA										
615.00 > 570.00	4.632	4.633	0.0	1.320	994501	1.38		110	5210	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.632	4.633	0.0	1.000	7221922	8.99	Target=6.41	89.9	2023	
613.00 > 169.00	4.632	4.633	0.0	1.000	1155105		6.25(3.21-9.62)	89.9	4021	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.653	4.643	0.010	1.122	332269	10.3		107	4208	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.801	4.801	0.0	1.259	1160676	9.37	Target=0.46	96.8	5418	
699.00 > 99.00	4.801	4.801	0.0	1.259	2596000		0.45(0.23-0.69)	96.8	5277	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.845	4.845	0.0	1.046	5947170	8.59	Target=4.67	85.9	1656	
663.00 > 169.00	4.845	4.845	0.0	1.046	1315665		4.52(2.33-7.00)	85.9	3198	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.034	5.034	0.0	1.434	736976	1.30		104	3760	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.034	5.034	0.0	1.000	980843	9.68	Target=1.01	96.8	4154	
713.00 > 219.00	5.034	5.034	0.0	1.000	970038		1.01(0.51-1.52)	96.8	6010	

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	5.394	5.383	0.011	1.002	5558571	9.39	Target=4.09	93.9	2011	
813.00 > 169.00	5.382	5.383	-0.001	1.000	1333799		4.17(2.05-6.14)	93.9	5987	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.382	5.383	-0.001	1.534	790763	1.38		110	3619	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.719	5.701	0.018	1.063	5153641	9.62	Target=3.78	96.2	1647	
913.00 > 169.00	5.719	5.701	0.018	1.063	1332440		3.87(1.89-5.67)	96.2	2279	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

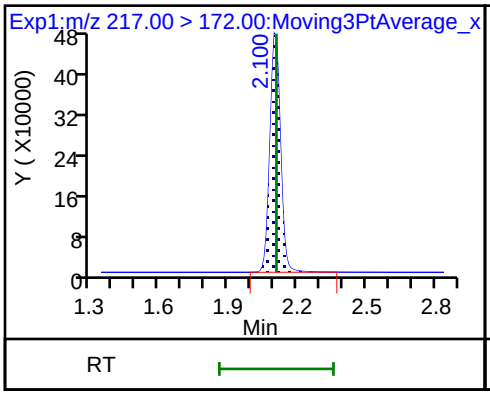
PFAS32NCIC6_00008 Amount Added: 100.00 Units: uL

Report Date: 08-Jul-2021 16:35:38 Chrom Revision: 2.3 13-May-2021 07:57:40

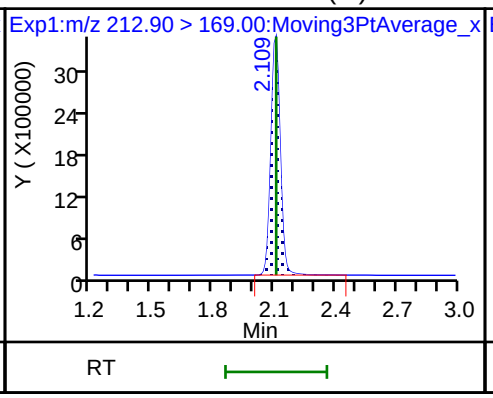
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d
Injection Date: 08-Jul-2021 16:00:26 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL

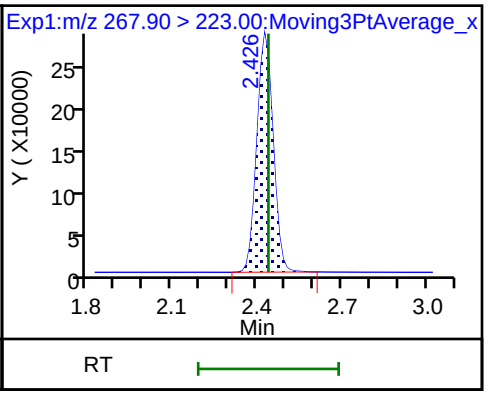
D 1 13C4 PFBA



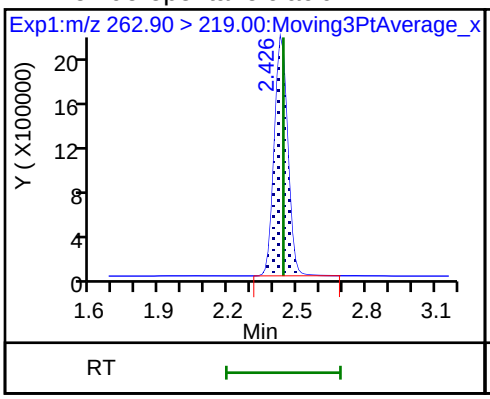
2 Perfluorobutanoic acid (M)



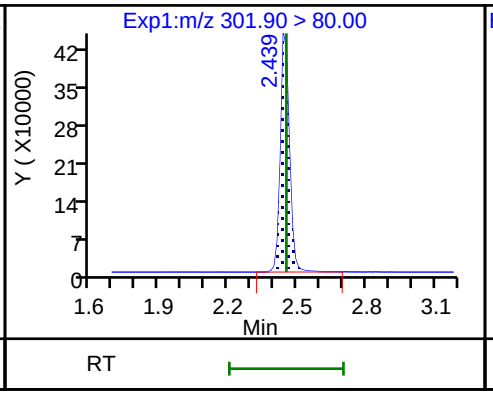
D 3 13C5 PFPeA



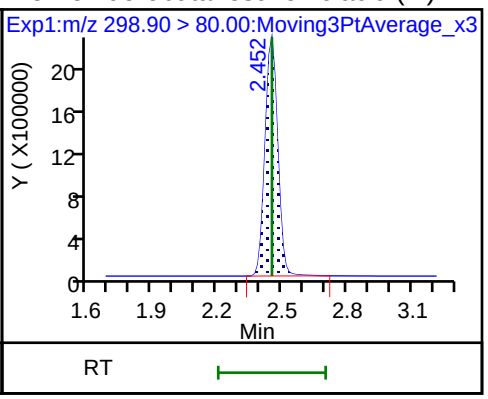
4 Perfluoropentanoic acid



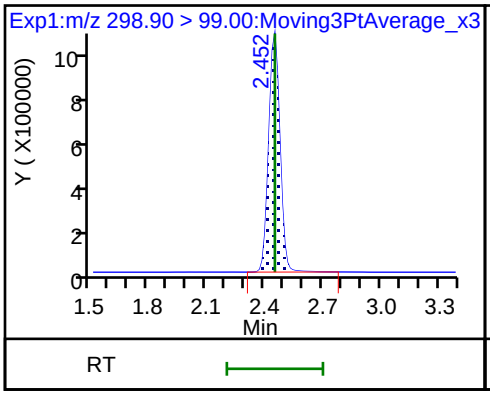
D 47 13C3 PFBS



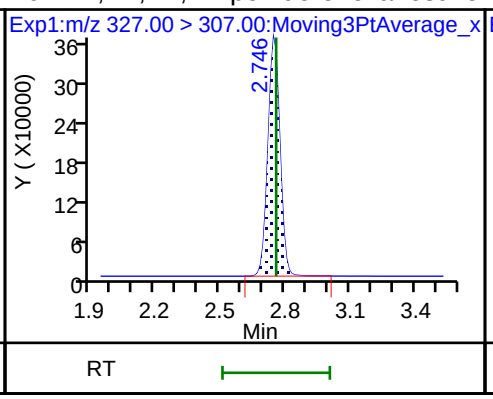
5 Perfluorobutanesulfonic acid (M)



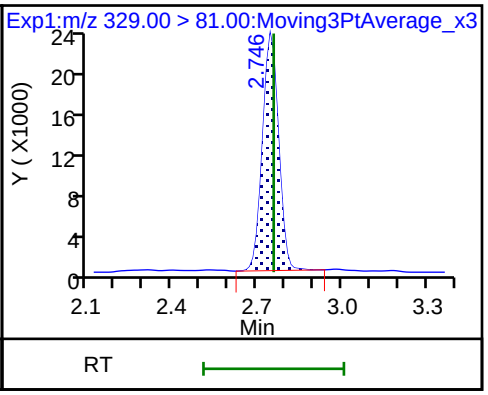
5 Perfluorobutanesulfonic acid



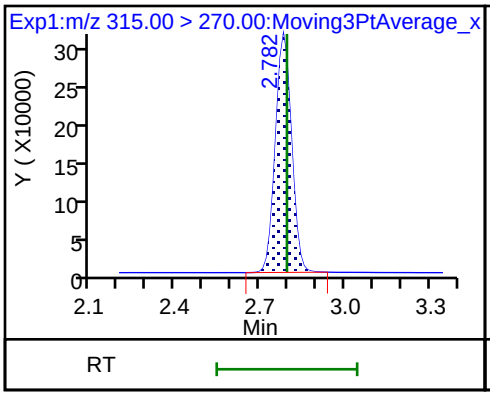
61 1H,1H,2H,2H-perfluorohexanesulfo



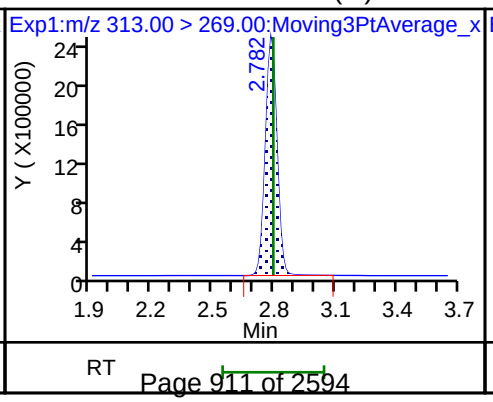
D 60 M2-4:2 FTS



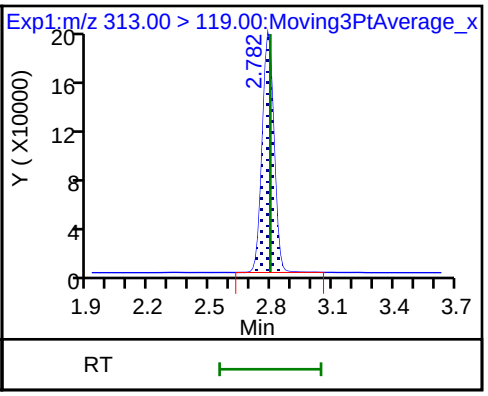
D 7 13C2 PFHxA



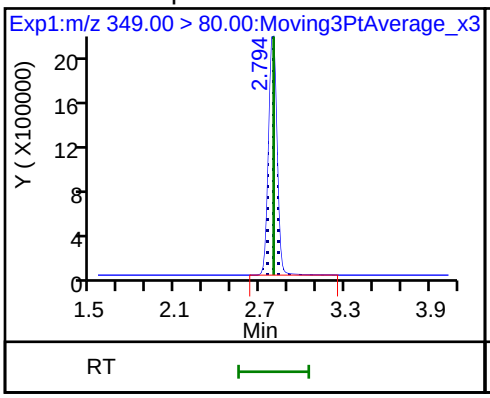
6 Perfluorohexanoic acid (M)



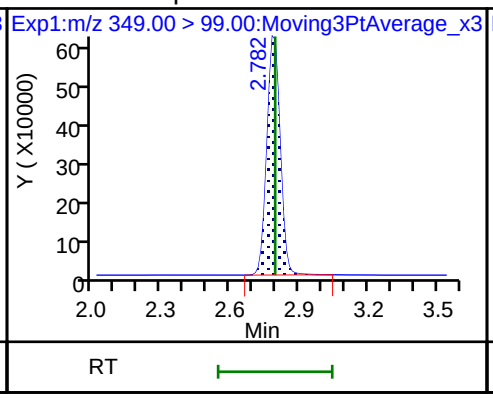
6 Perfluorohexanoic acid



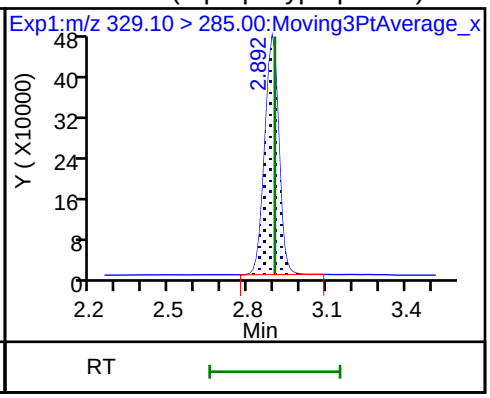
70 Perfluoropentanesulfonic acid



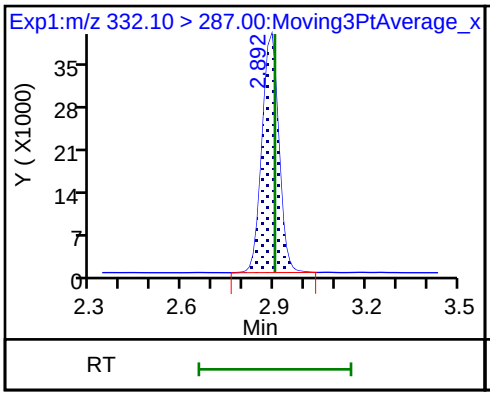
70 Perfluoropentanesulfonic acid



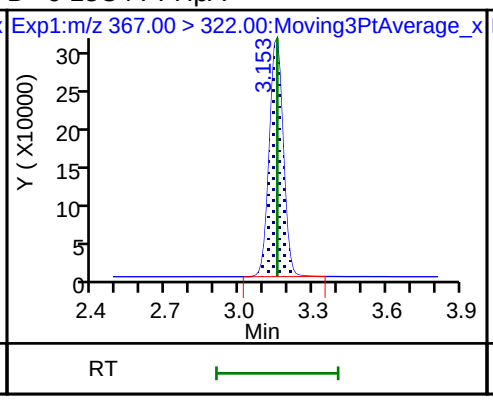
67 Perfluoro(2-propoxypropanoic) ac



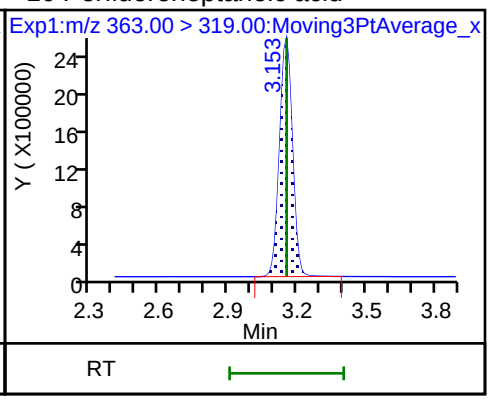
D 64 13C3 HFPO-DA



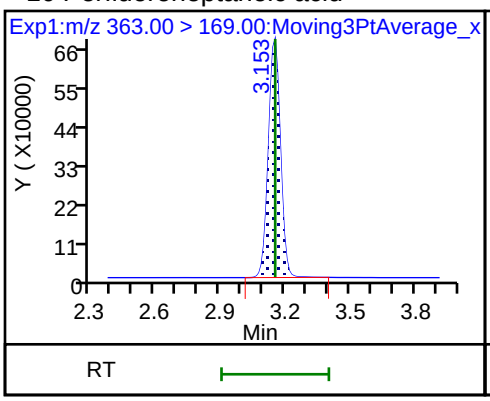
D 9 13C4 PFHpA



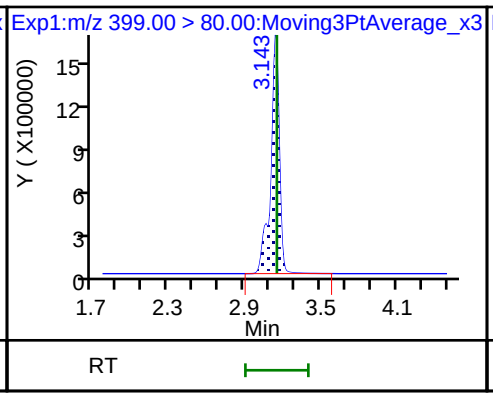
10 Perfluoroheptanoic acid



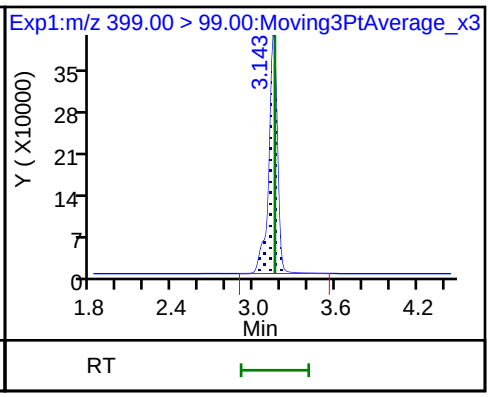
10 Perfluoroheptanoic acid



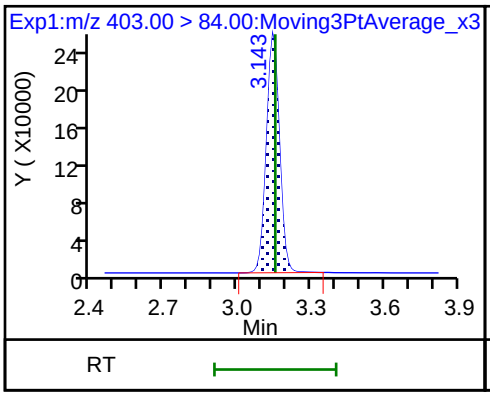
8 Perfluorohexanesulfonic acid



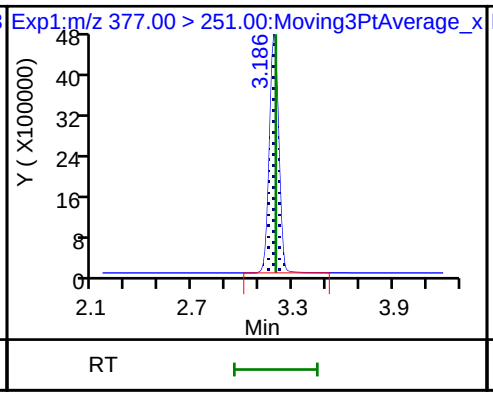
8 Perfluorohexanesulfonic acid



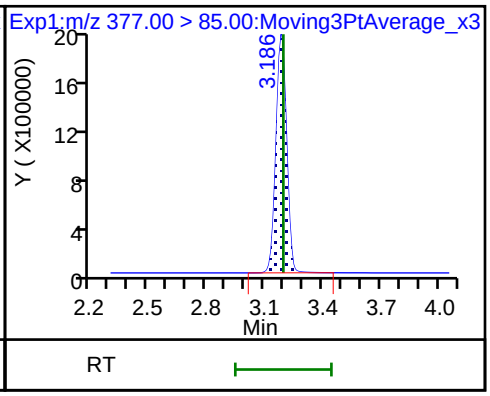
D 11 18O2 PFHxS



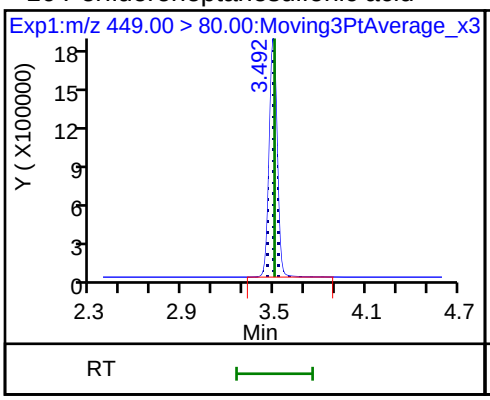
77 DONA



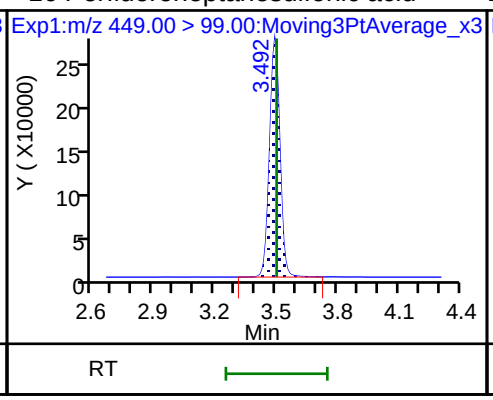
77 DONA



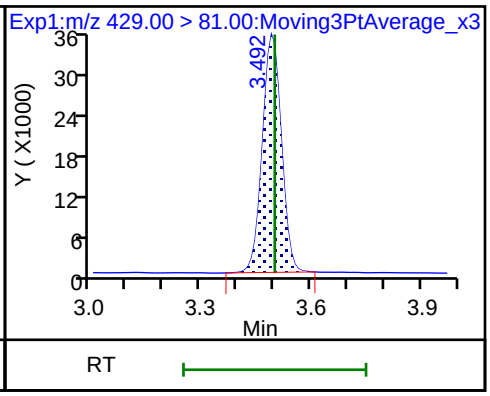
16 Perfluoroheptanesulfonic acid



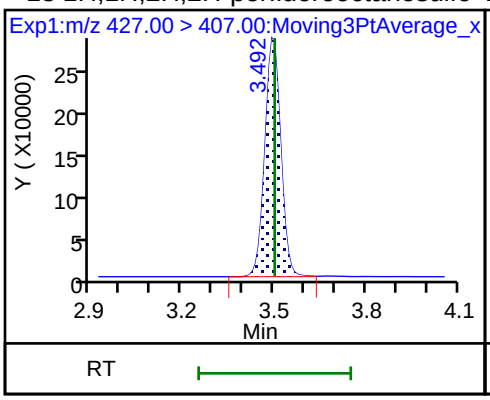
16 Perfluoroheptanesulfonic acid



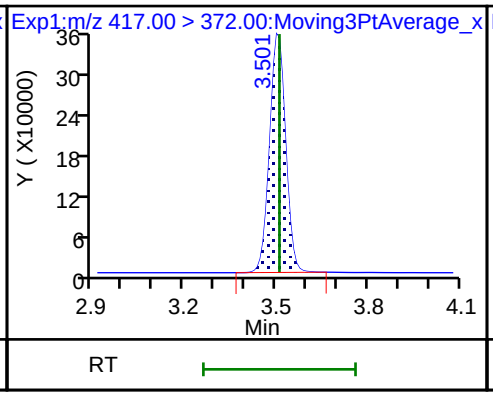
D 12 M2-6:2 FTS



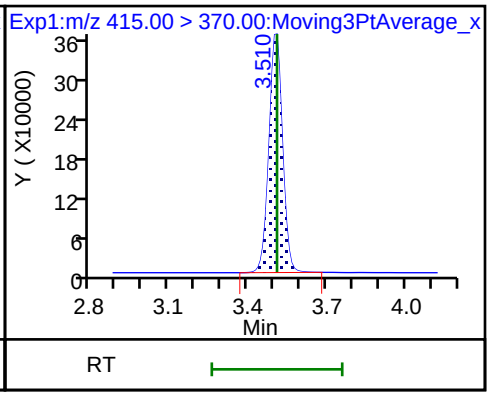
13 1H,1H,2H,2H-perfluorooctanesulfo



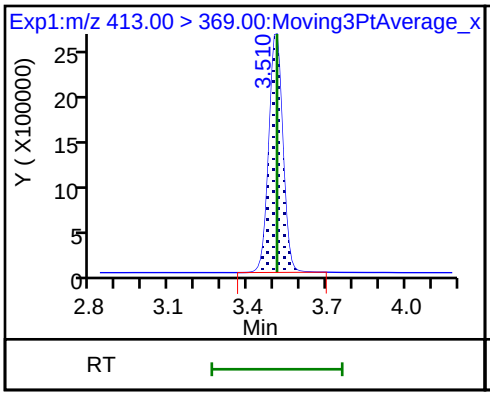
D 14 13C4 PFOA



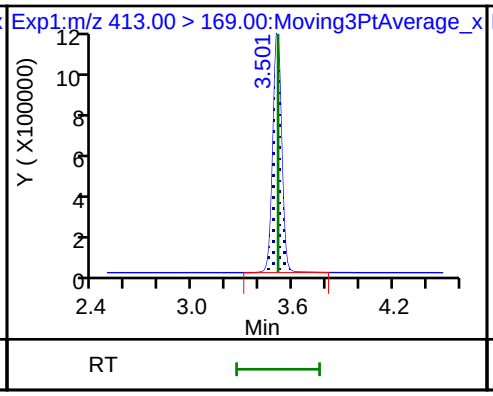
* 62 13C2 PFOA



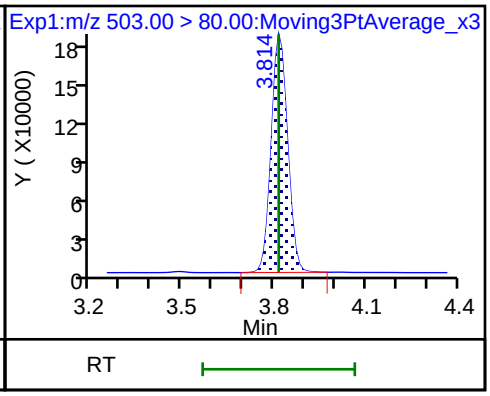
15 Perfluorooctanoic acid



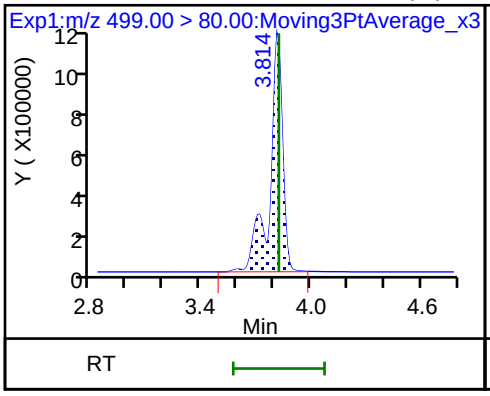
15 Perfluorooctanoic acid



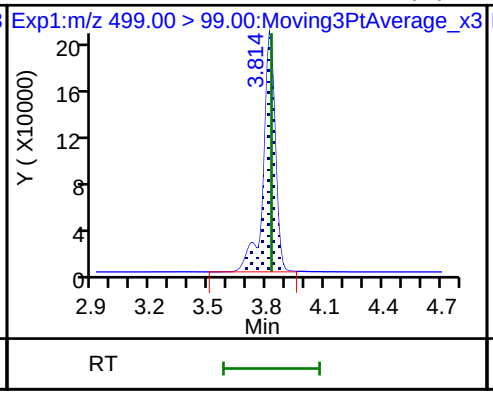
D 18 13C4 PFOS



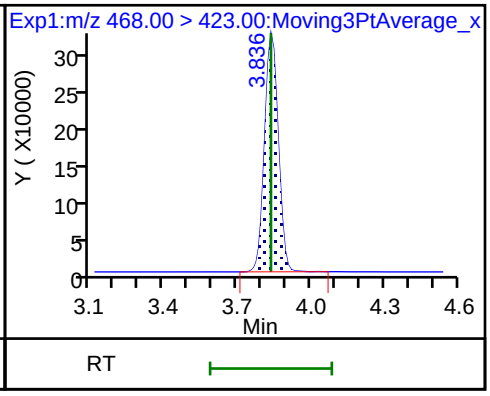
17 Perfluorooctanesulfonic acid (M)



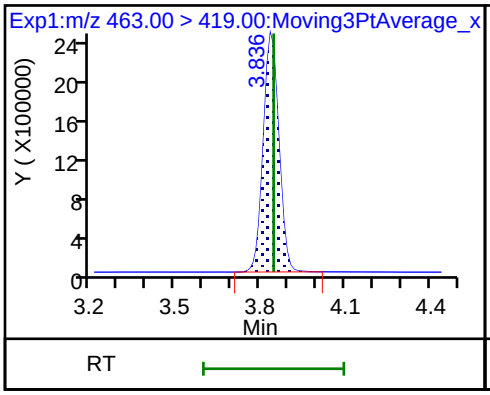
17 Perfluorooctanesulfonic acid (M)



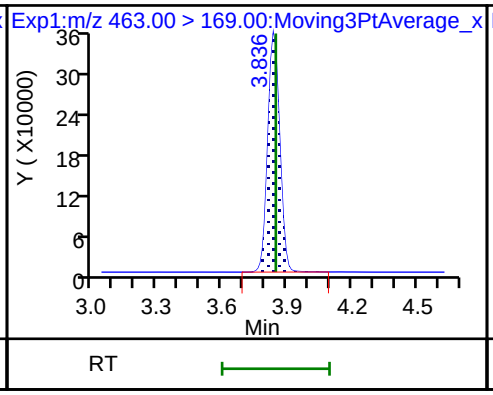
D 19 13C5 PFNA



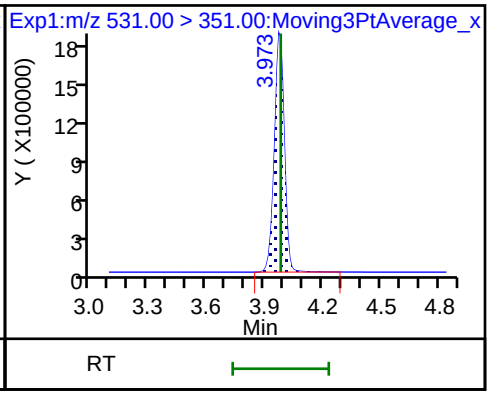
20 Perfluorononanoic acid



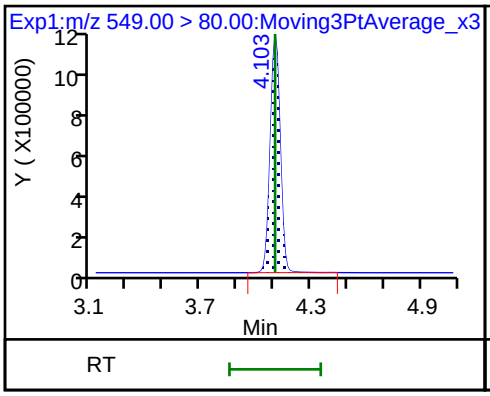
20 Perfluorononanoic acid



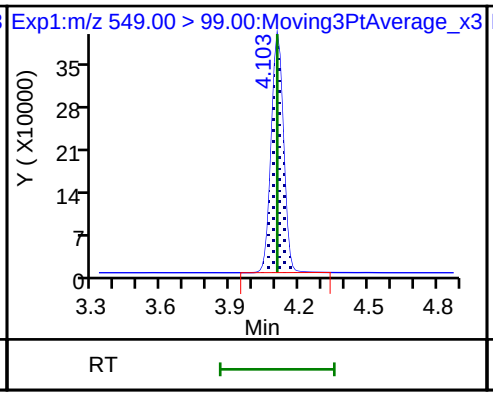
69 9-Chlorohexadecafluoro-3-oxanona



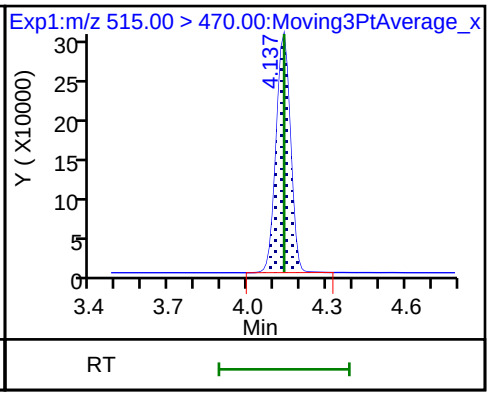
68 Perfluorononanesulfonic acid



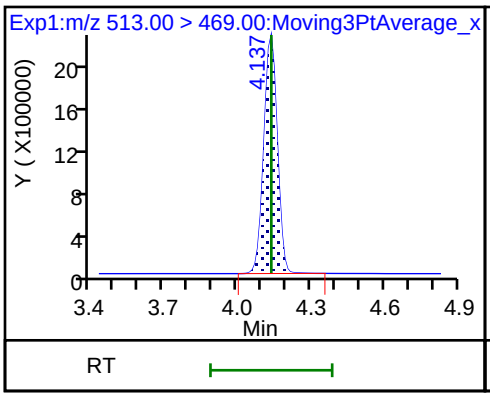
68 Perfluorononanesulfonic acid



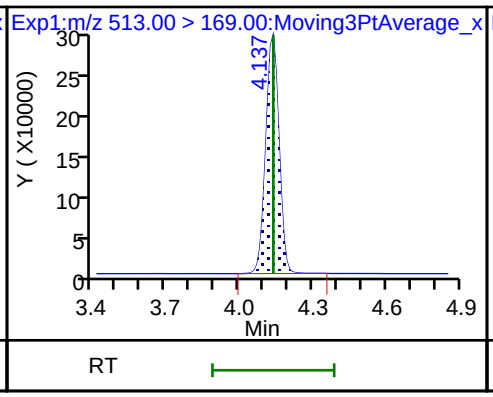
D 23 13C2 PFDA



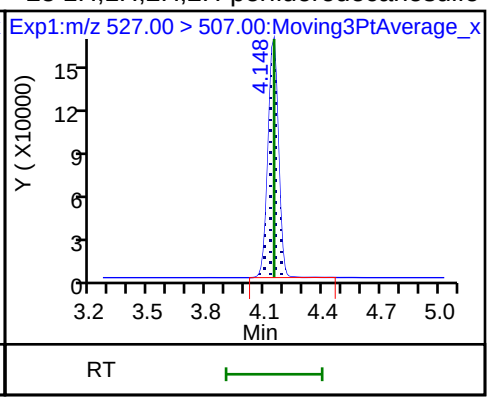
24 Perfluorodecanoic acid



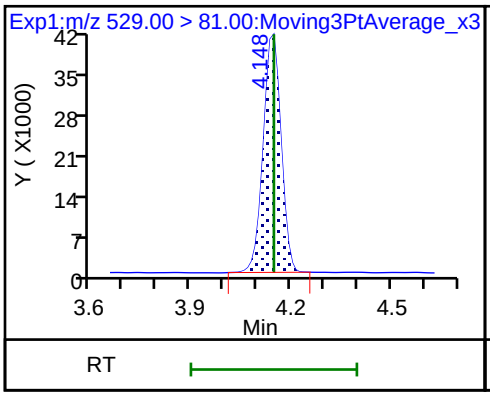
24 Perfluorodecanoic acid



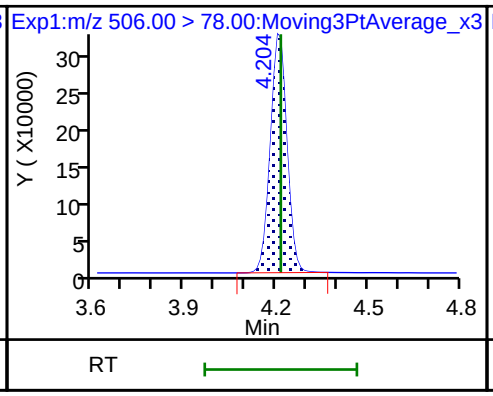
25 1H,1H,2H,2H-perfluorodecanesulfo



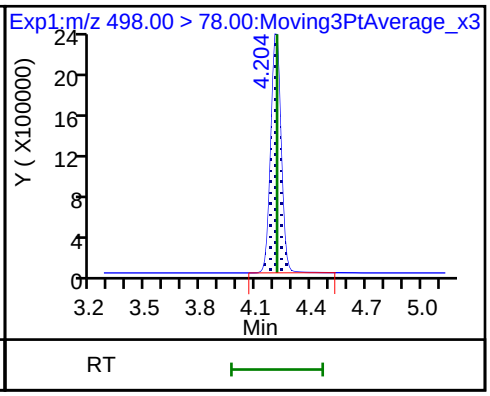
D 26 M2-8:2 FTS



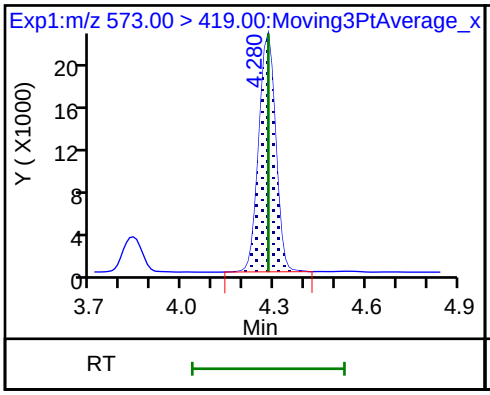
D 21 13C8 FOSA



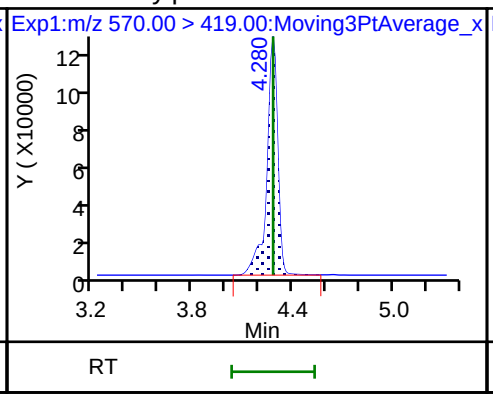
22 Perfluorooctanesulfonamide



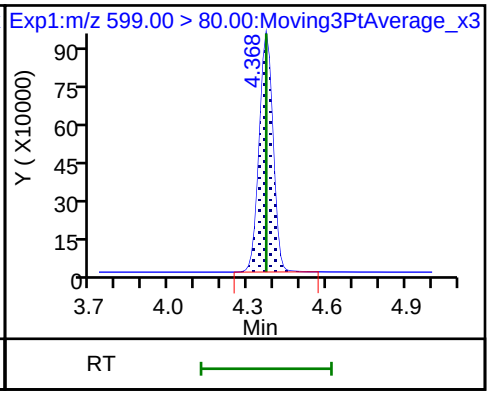
D 27 d3-NMeFOSAA



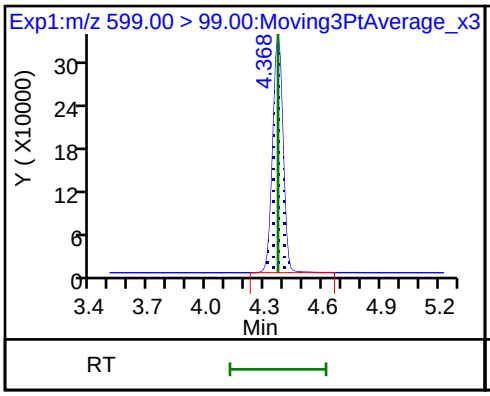
28 N-methylperfluorooctanesulfonami



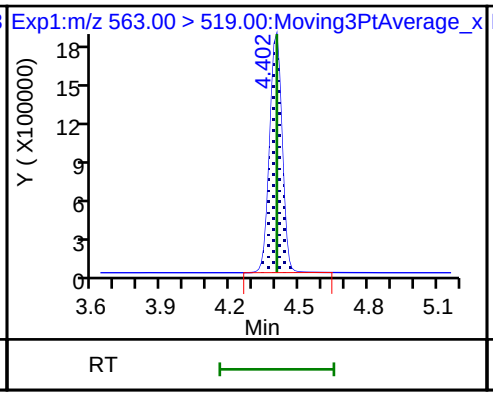
29 Perfluorodecanesulfonic acid



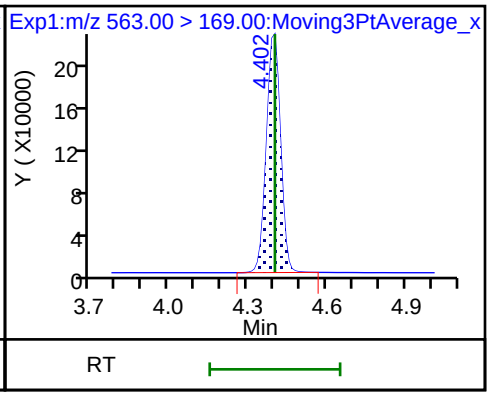
29 Perfluorodecanesulfonic acid



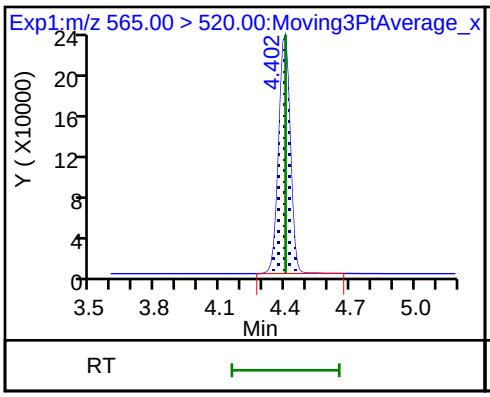
31 Perfluoroundecanoic acid



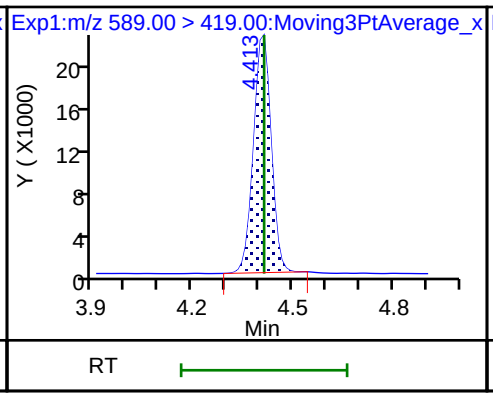
31 Perfluoroundecanoic acid



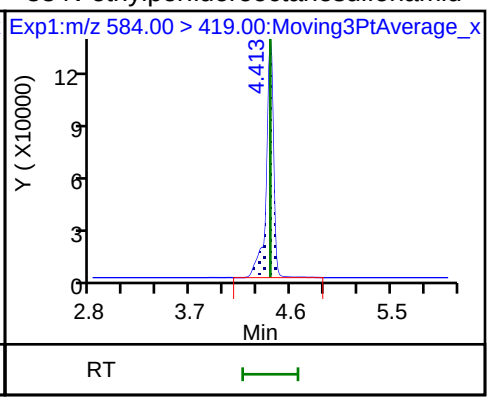
D 30 13C2 PFUnA



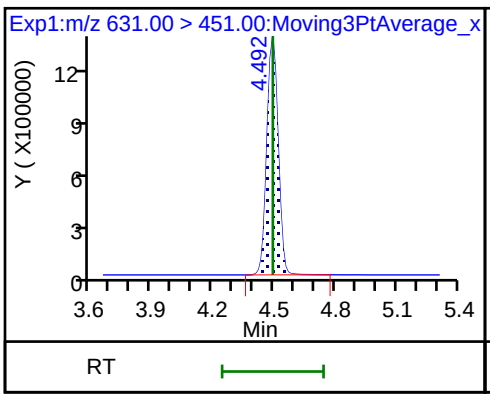
D 32 d5-NEtFOSAA



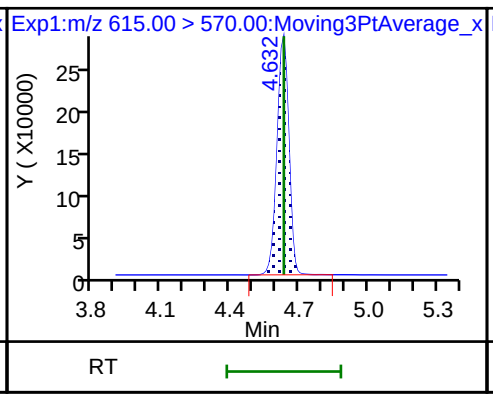
33 N-ethylperfluorooctanesulfonamid



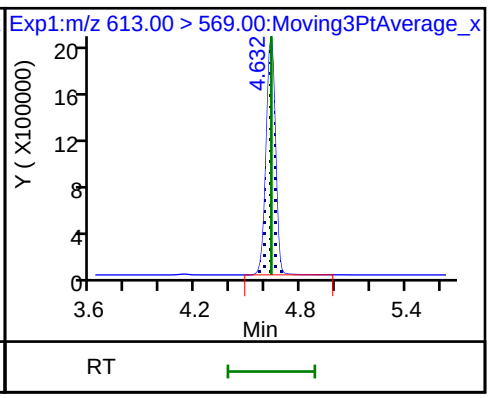
66 11-Chloroeicosafluoro-3-oxaundec



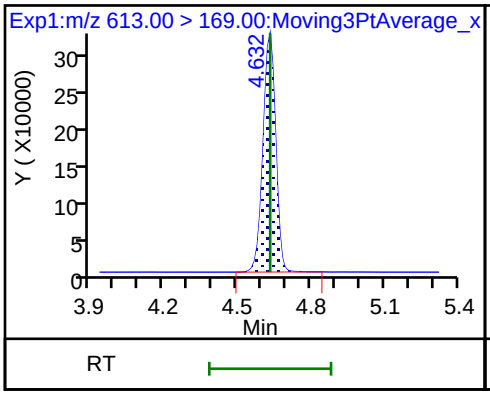
D 36 13C2 PFDoA



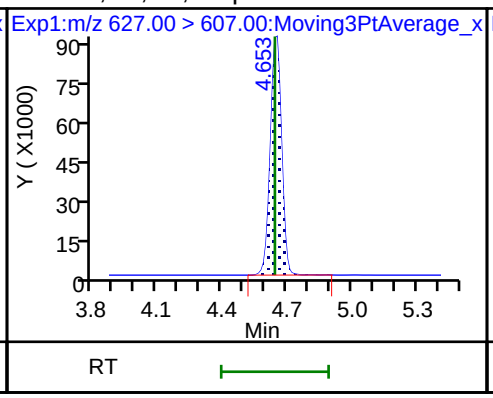
37 Perfluorododecanoic acid



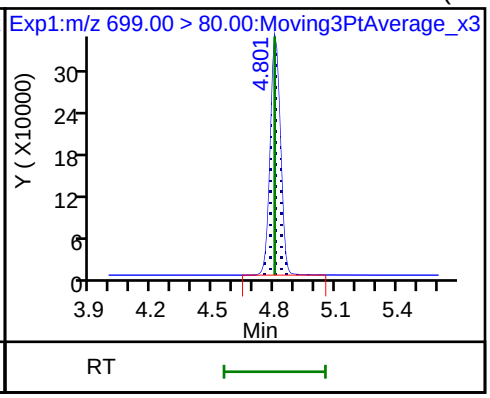
37 Perfluorododecanoic acid



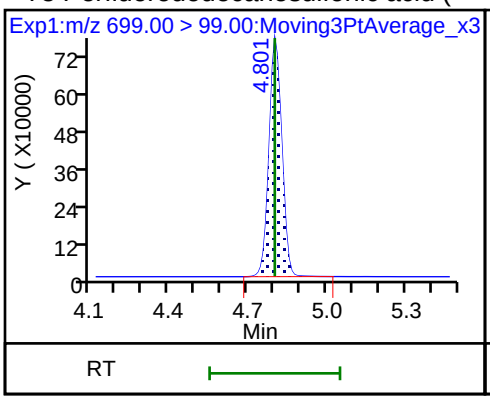
74 1H,1H,2H,2H-perfluorododecanesul



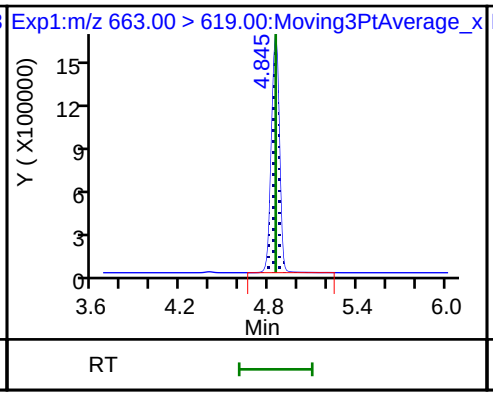
75 Perfluorododecanesulfonic acid (



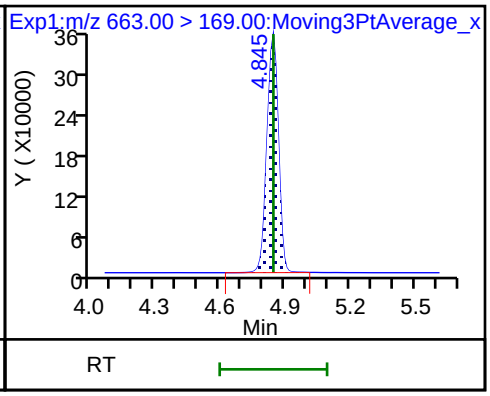
75 Perfluorododecanesulfonic acid (



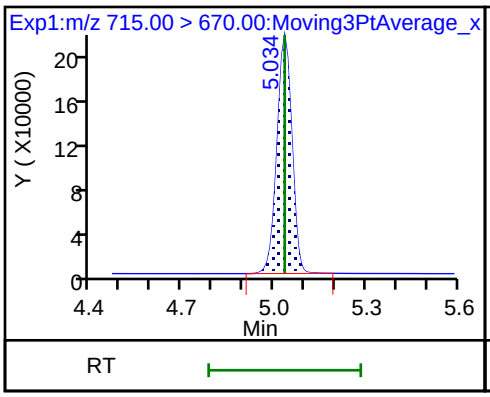
41 Perfluorotridecanoic acid



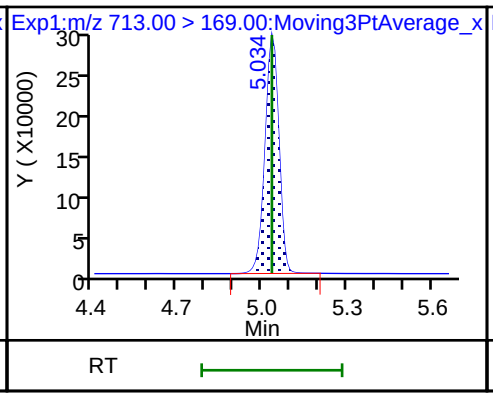
41 Perfluorotridecanoic acid



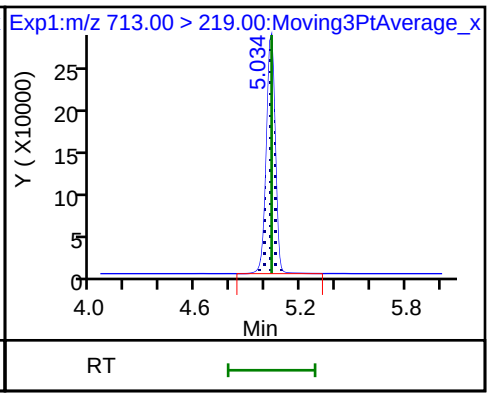
D 43 13C2 PFTeDA



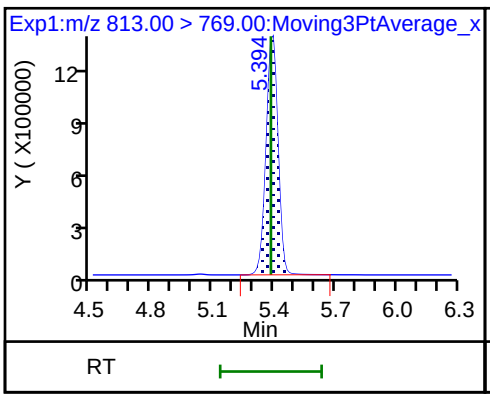
42 Perfluorotetradecanoic acid



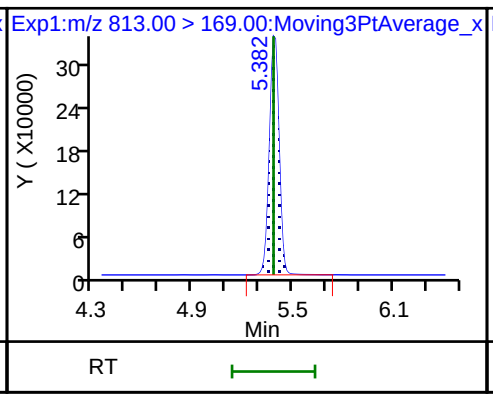
42 Perfluorotetradecanoic acid



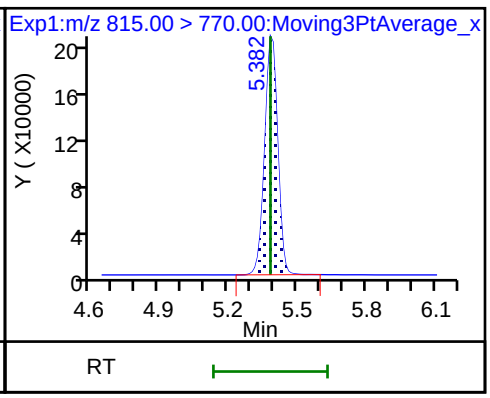
45 Perfluorohexadecanoic acid



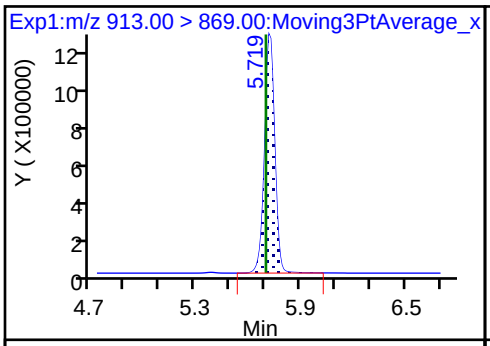
45 Perfluorohexadecanoic acid



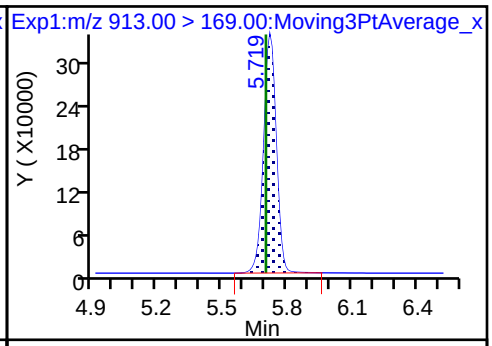
D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

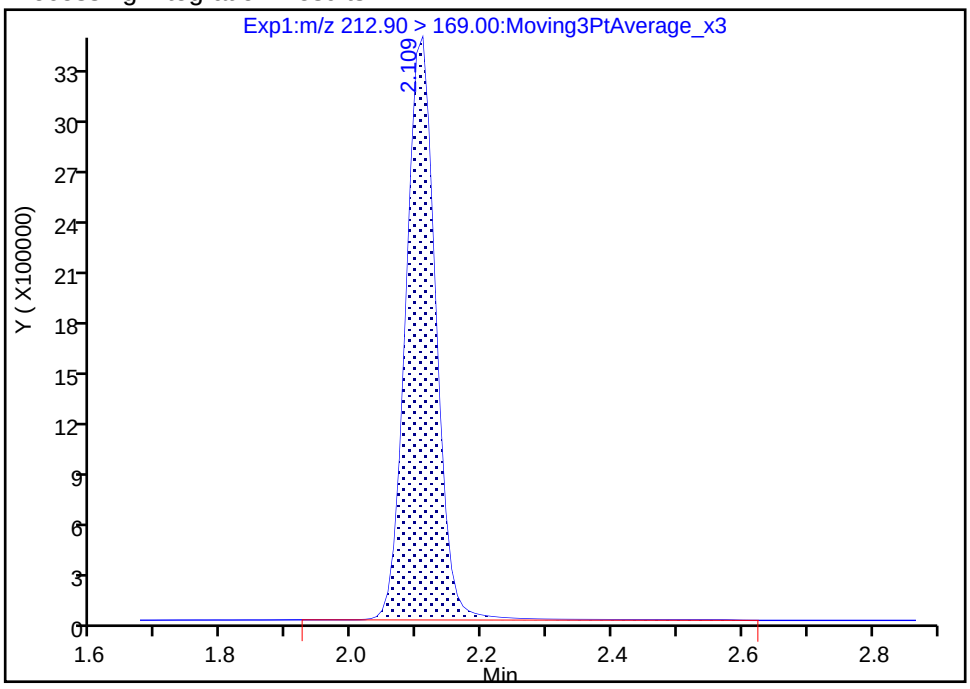
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Injection Date:	08-Jul-2021 16:00:26	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

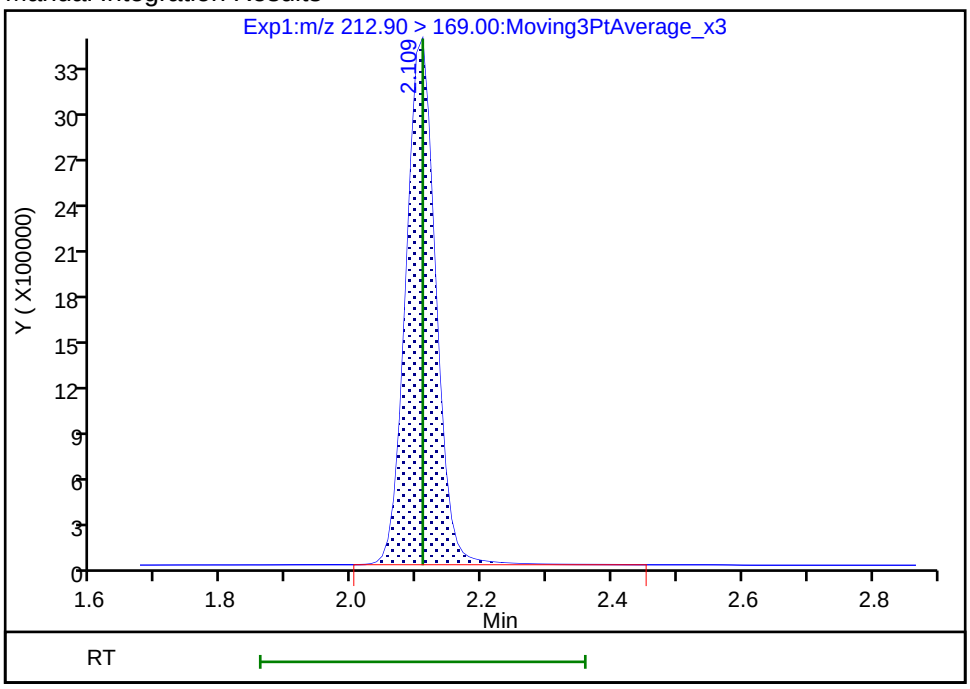
Processing Integration Results

RT: 2.11
Area: 10879854
Amount: 9.259054
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 10819800
Amount: 9.239516
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:19:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

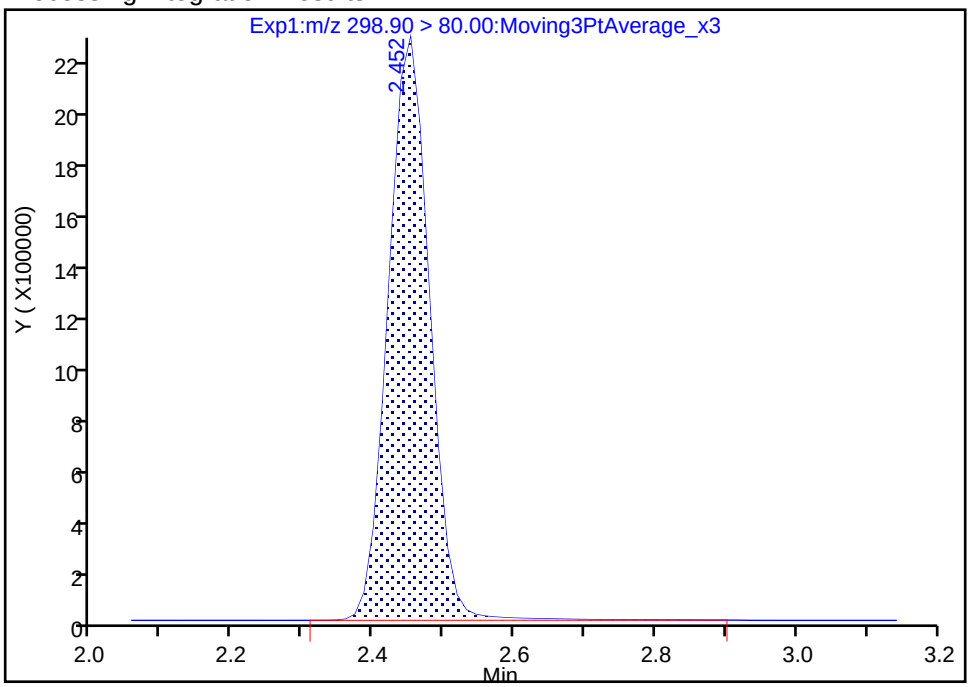
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d
Injection Date: 08-Jul-2021 16:00:26 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

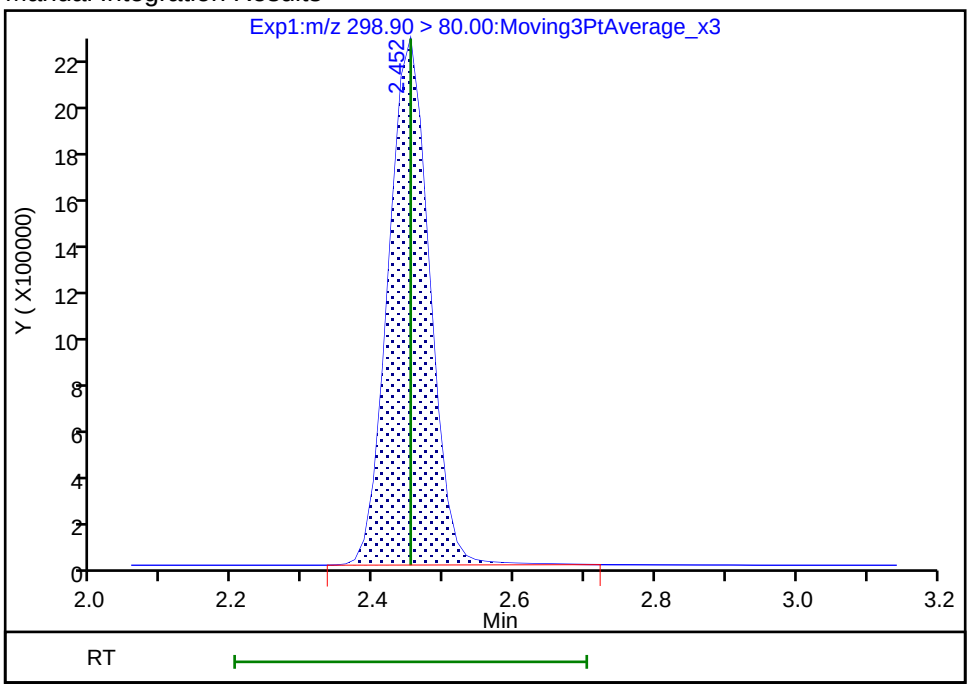
Processing Integration Results

RT: 2.45
Area: 8934828
Amount: 8.031802
Amount Units: ng/ml



Manual Integration Results

RT: 2.45
Area: 8904613
Amount: 8.008742
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:17:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

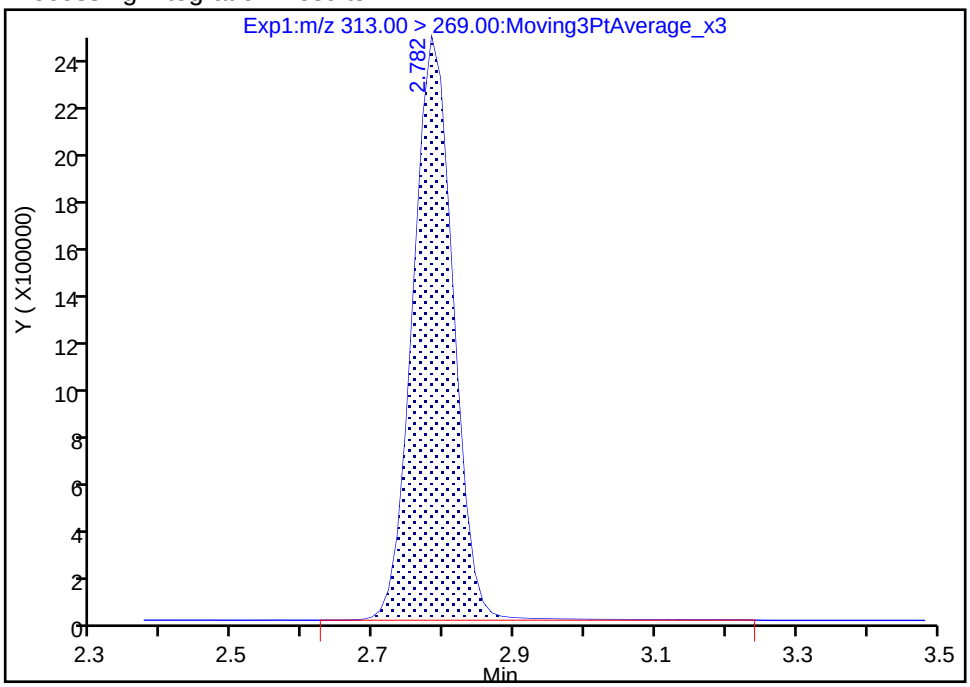
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d
Injection Date: 08-Jul-2021 16:00:26 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

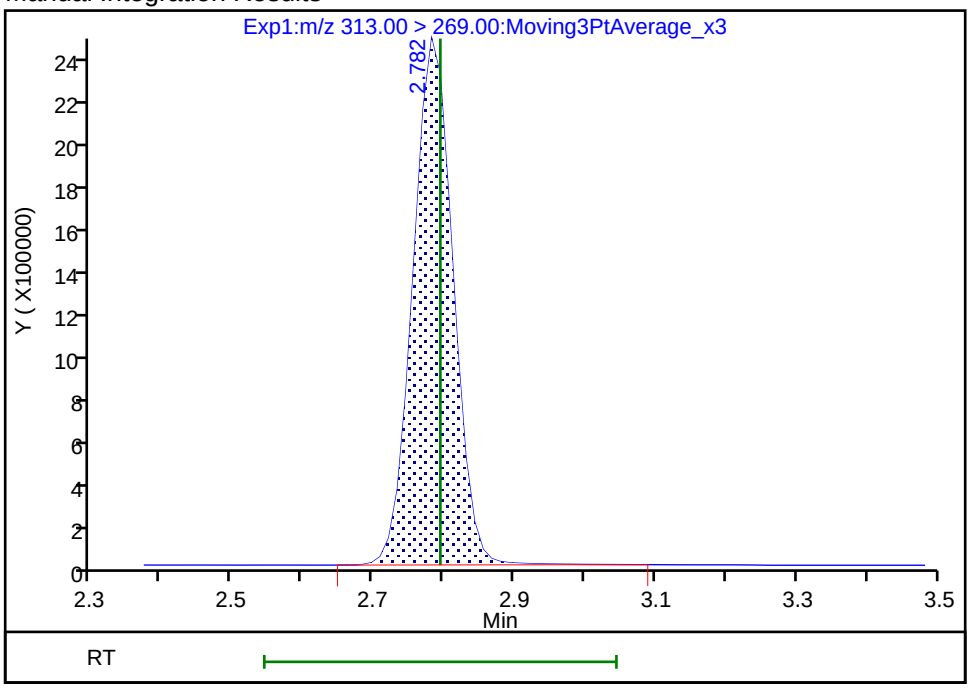
Processing Integration Results

RT: 2.78
Area: 9721433
Amount: 9.704281
Amount Units: ng/ml



Manual Integration Results

RT: 2.78
Area: 9687309
Amount: 9.675710
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:17:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

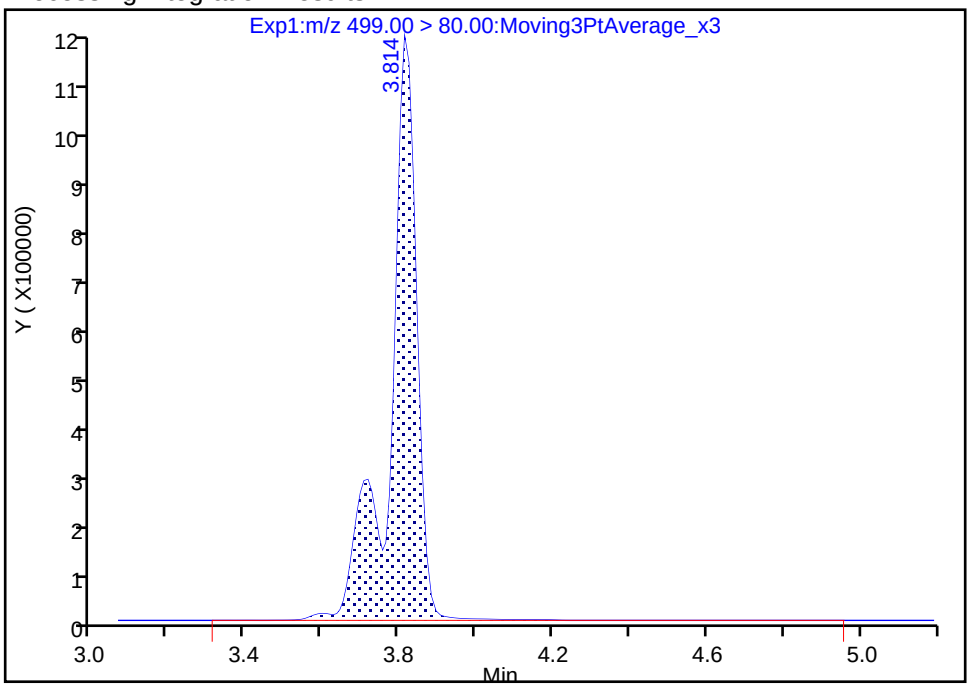
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d
Injection Date: 08-Jul-2021 16:00:26 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

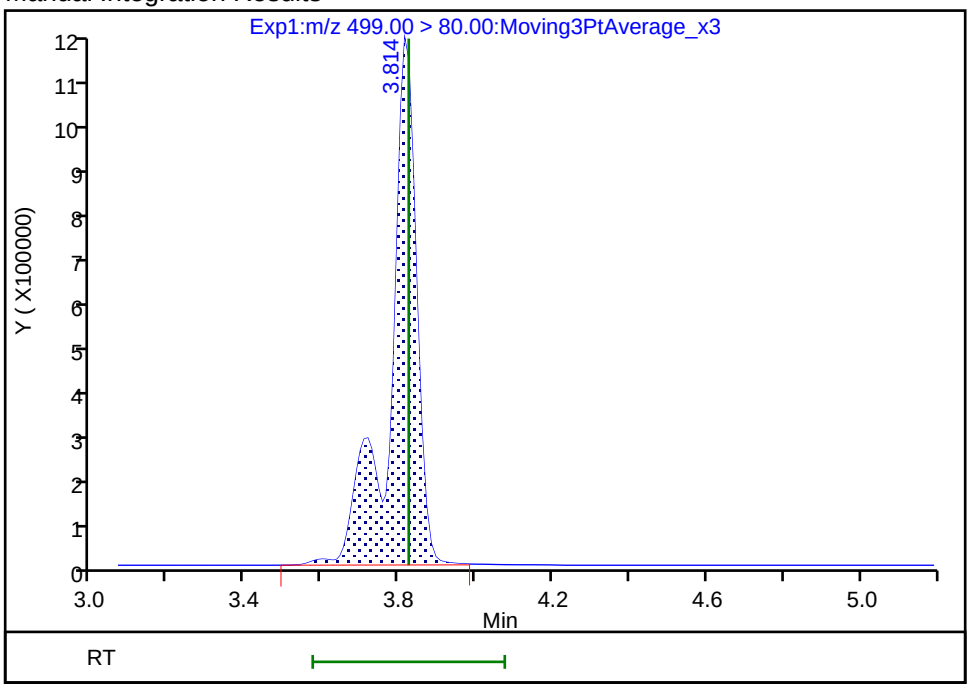
Processing Integration Results

RT: 3.81
Area: 5526066
Amount: 8.571697
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 5493096
Amount: 8.528389
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:18:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

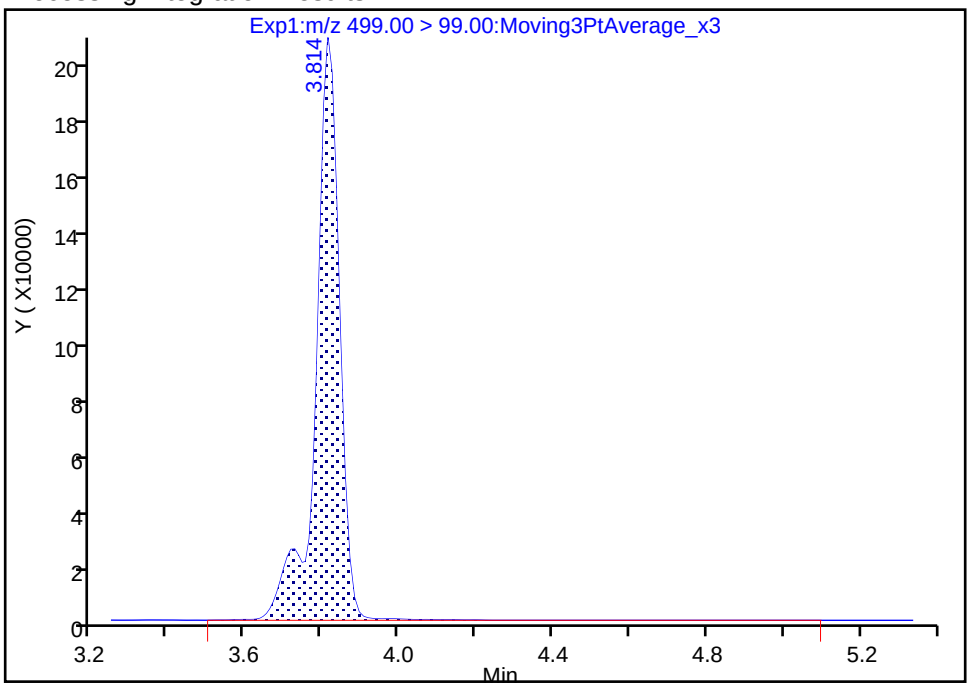
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Injection Date:	08-Jul-2021 16:00:26	Instrument ID:	LC812		
Lims ID:	IC				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

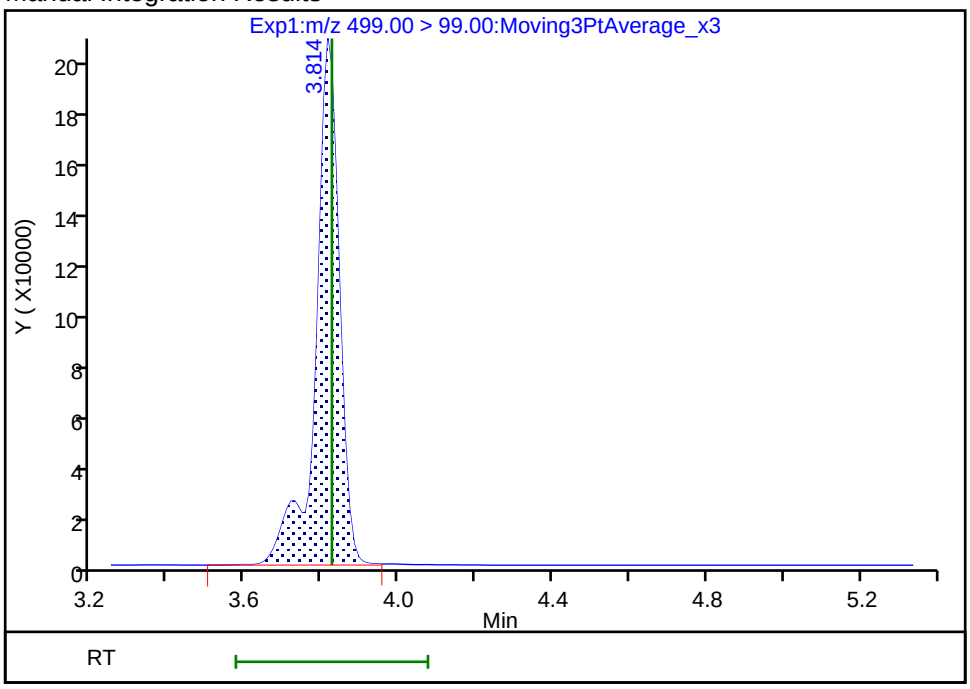
Processing Integration Results

RT: 3.81
Area: 868044
Amount: 8.571697
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 863393
Amount: 8.528389
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:18:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Calibration / Perfluorobutanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

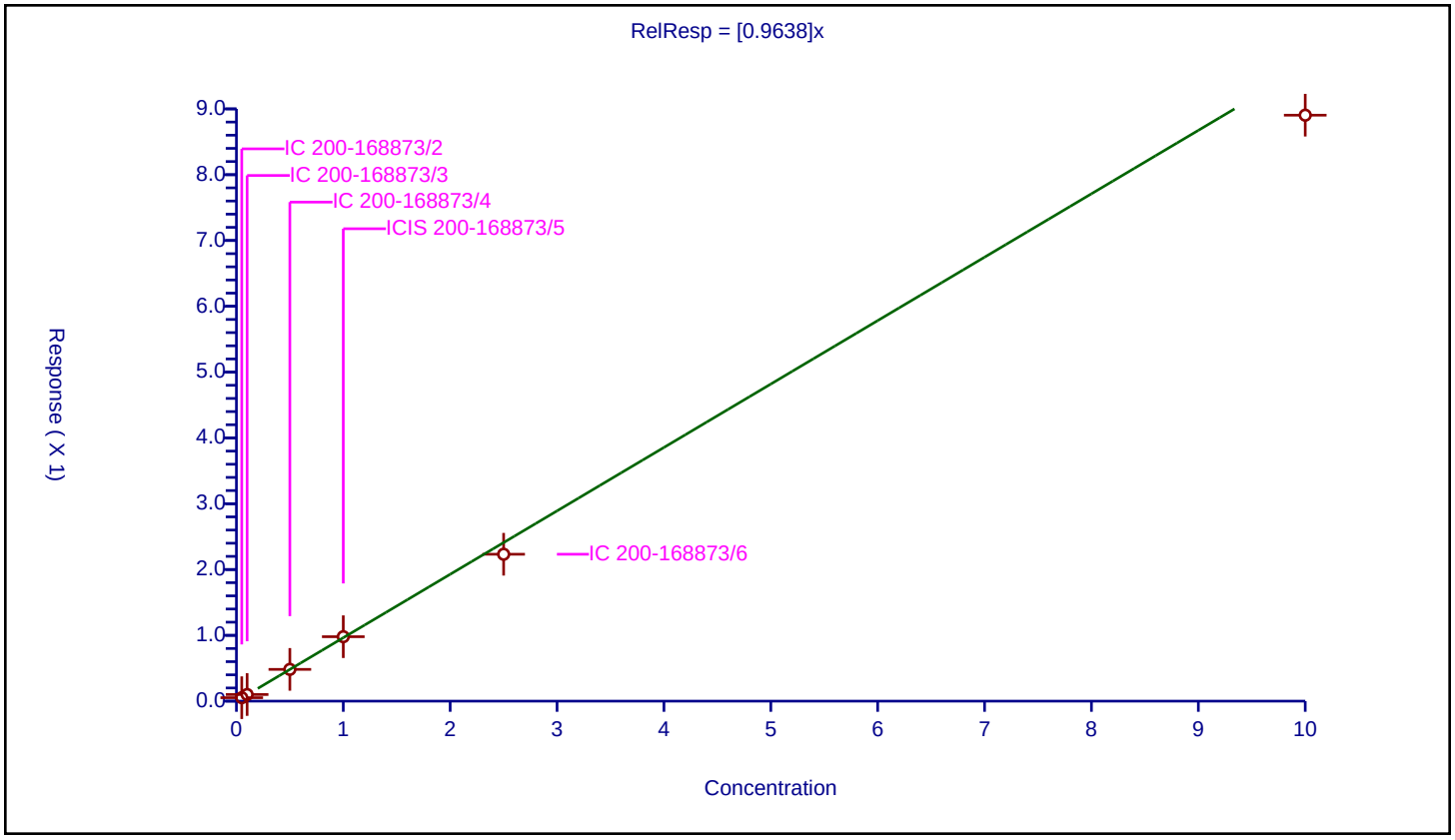
Curve Coefficients

Intercept:	0
Slope:	0.9638

Error Coefficients

Standard Error:	5060000
Relative Standard Error:	6.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.052447	1.25	1650645.0	1.048938	Y
2	IC 200-168873/3	0.1	0.100574	1.25	1503281.0	1.005742	Y
3	IC 200-168873/4	0.5	0.482619	1.25	1543980.0	0.965238	Y
4	ICIS 200-168873/5	1.0	0.979244	1.25	1633918.0	0.979244	Y
5	IC 200-168873/6	2.5	2.232293	1.25	1664959.0	0.892917	Y
6	IC 200-168873/7	10.0	8.904652	1.25	1518841.0	0.890465	Y



Calibration / Perfluoropentanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

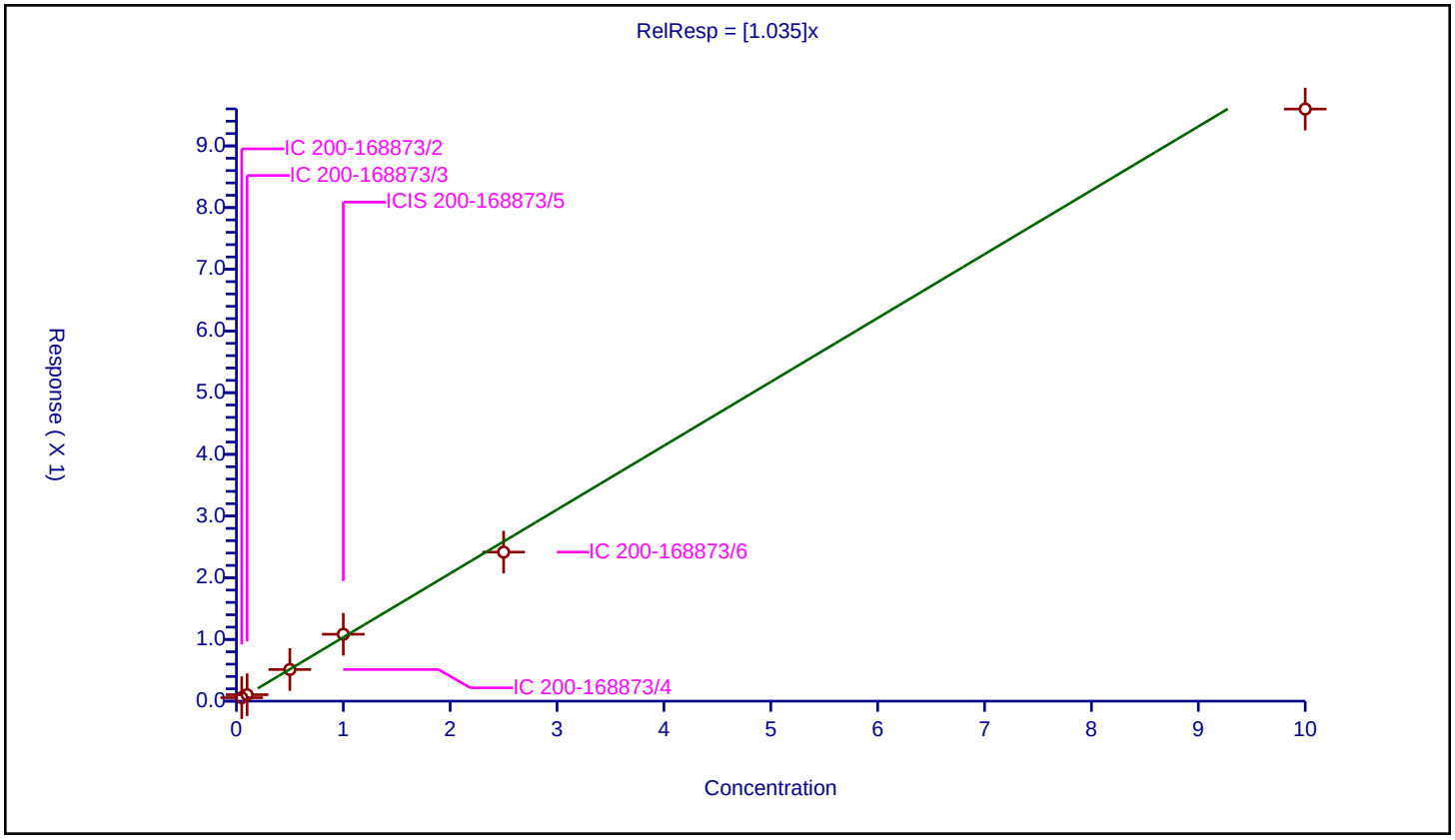
Curve Coefficients

Intercept:	0
Slope:	1.035

Error Coefficients

Standard Error:	4130000
Relative Standard Error:	6.3
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.056351	1.25	1206338.0	1.127027	Y
2	IC 200-168873/3	0.1	0.104744	1.25	1166341.0	1.047442	Y
3	IC 200-168873/4	0.5	0.512527	1.25	1185371.0	1.025055	Y
4	ICIS 200-168873/5	1.0	1.08424	1.25	1216538.0	1.08424	Y
5	IC 200-168873/6	2.5	2.415787	1.25	1275812.0	0.966315	Y
6	IC 200-168873/7	10.0	9.597457	1.25	1147675.0	0.959746	Y



Calibration / Perfluorobutanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

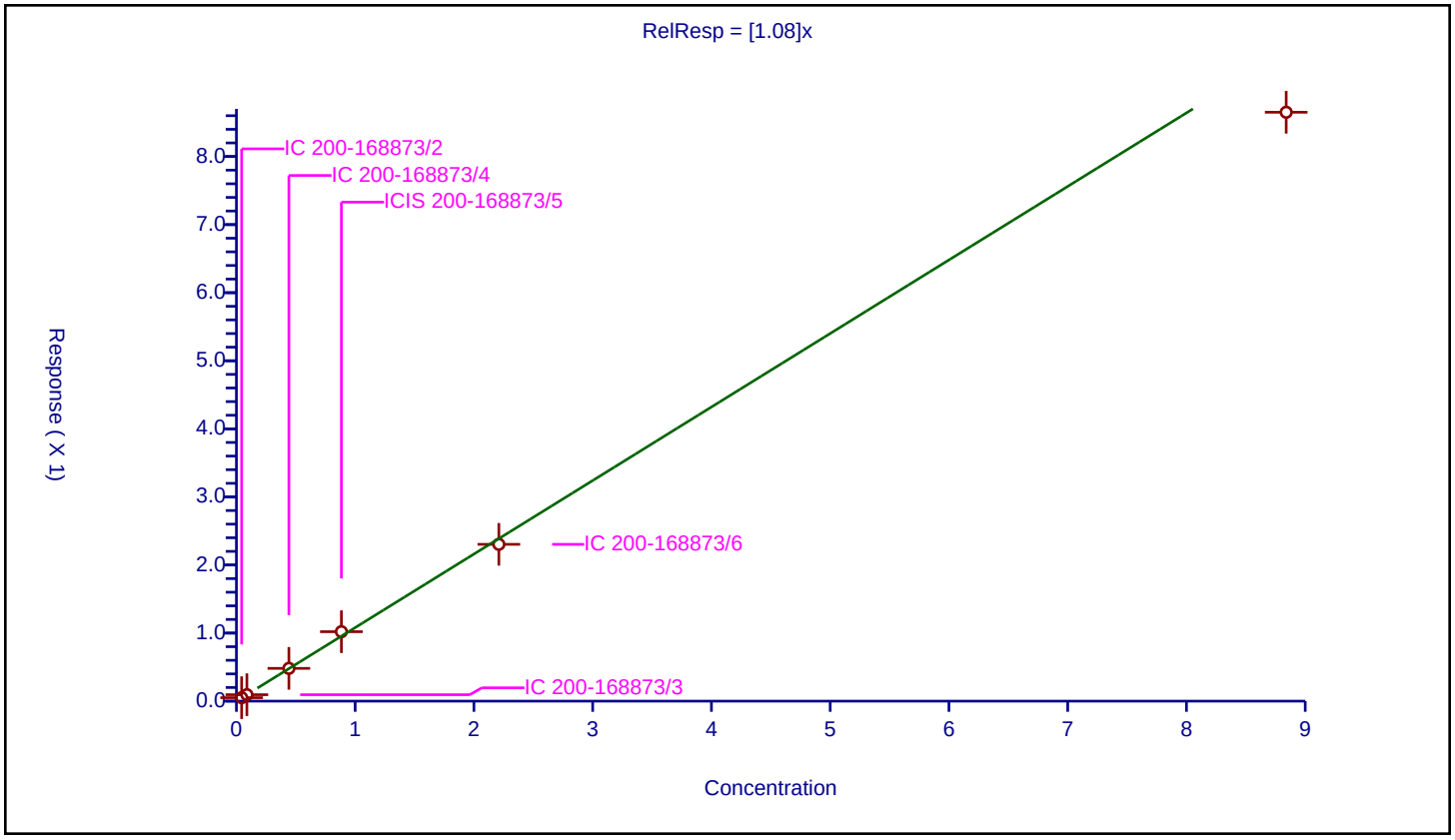
Curve Coefficients

Intercept:	0
Slope:	1.08

Error Coefficients

Standard Error:	4160000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0442	0.050805	1.1625	1163284.0	1.149428	Y
2	IC 200-168873/3	0.0884	0.094341	1.1625	1149674.0	1.067204	Y
3	IC 200-168873/4	0.442	0.48138	1.1625	1123749.0	1.089096	Y
4	ICIS 200-168873/5	0.884	1.020296	1.1625	1216936.0	1.154181	Y
5	IC 200-168873/6	2.21	2.303619	1.1625	1236969.0	1.042361	Y
6	IC 200-168873/7	8.84	8.650565	1.1625	1196640.0	0.978571	Y



Calibration / 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

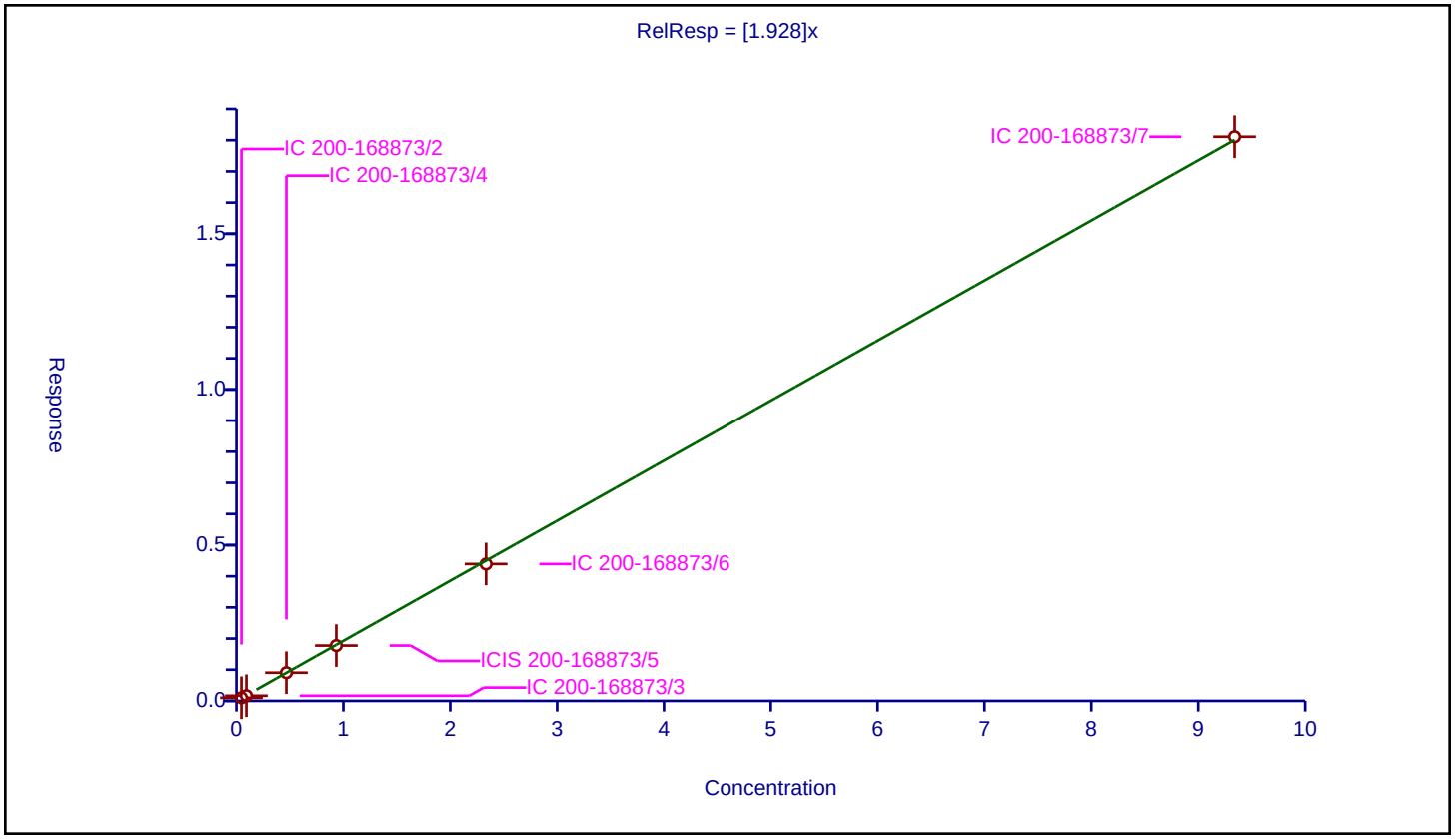
Curve Coefficients

Intercept:	0
Slope:	1.928

Error Coefficients

Standard Error:	655000
Relative Standard Error:	6.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0467	0.09984	1.1675	104343.0	2.137901	Y
2	IC 200-168873/3	0.0934	0.165627	1.1675	94104.0	1.773304	Y
3	IC 200-168873/4	0.467	0.904191	1.1675	98008.0	1.936168	Y
4	ICIS 200-168873/5	0.934	1.775424	1.1675	102557.0	1.900882	Y
5	IC 200-168873/6	2.335	4.394374	1.1675	98957.0	1.881959	Y
6	IC 200-168873/7	9.34	18.110826	1.1675	90668.0	1.939061	Y



Calibration / Perfluorohexanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

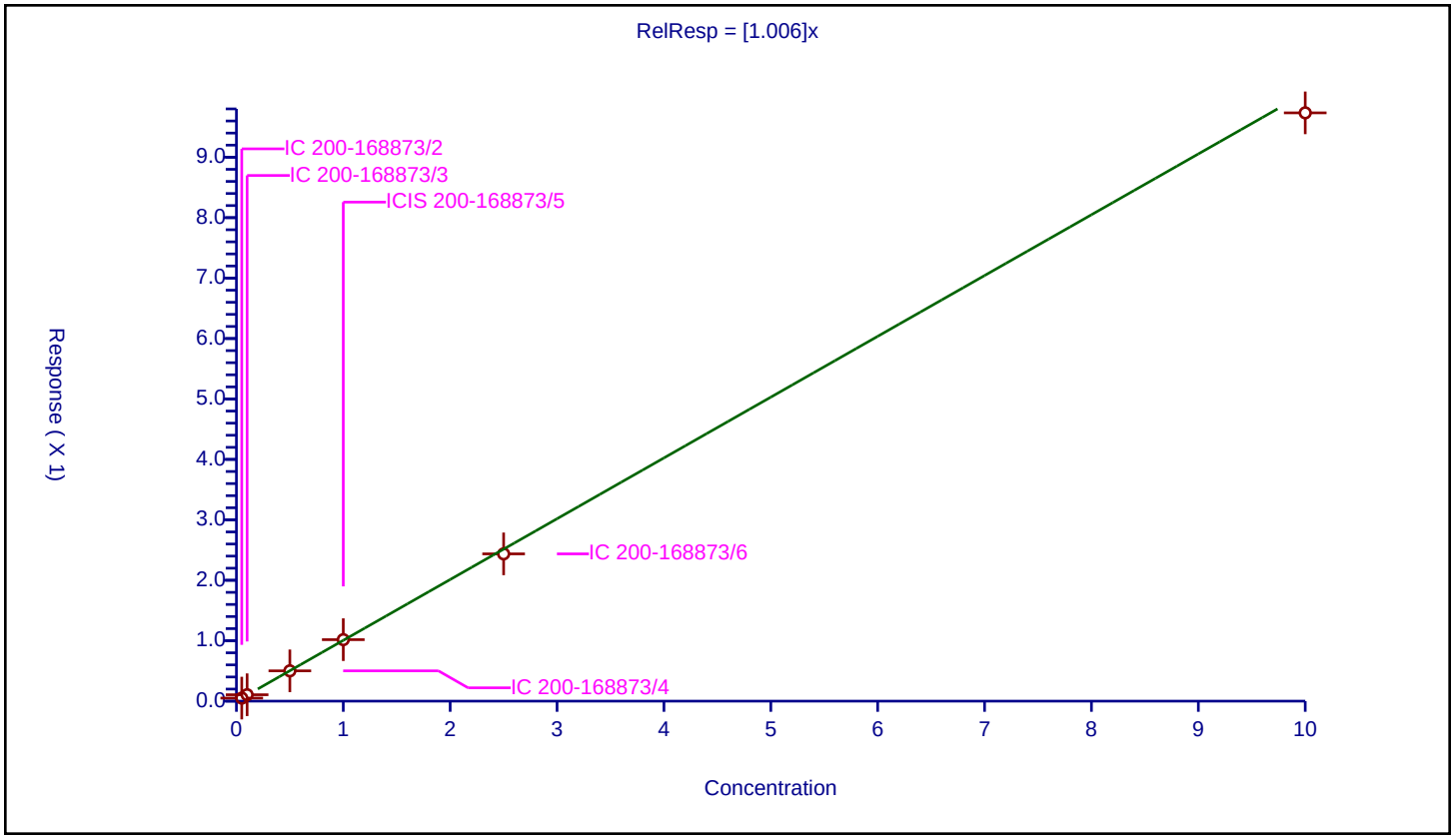
Curve Coefficients

Intercept:	0
Slope:	1.006

Error Coefficients

Standard Error:	4530000
Relative Standard Error:	3.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.050437	1.25	1403345.0	1.008733	Y
2	IC 200-168873/3	0.1	0.105968	1.25	1273524.0	1.059678	Y
3	IC 200-168873/4	0.5	0.501153	1.25	1275813.0	1.002306	Y
4	ICIS 200-168873/5	1.0	1.017368	1.25	1361827.0	1.017368	Y
5	IC 200-168873/6	2.5	2.437145	1.25	1373463.0	0.974858	Y
6	IC 200-168873/7	10.0	9.734377	1.25	1243956.0	0.973438	Y



Calibration / Perfluoropentanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

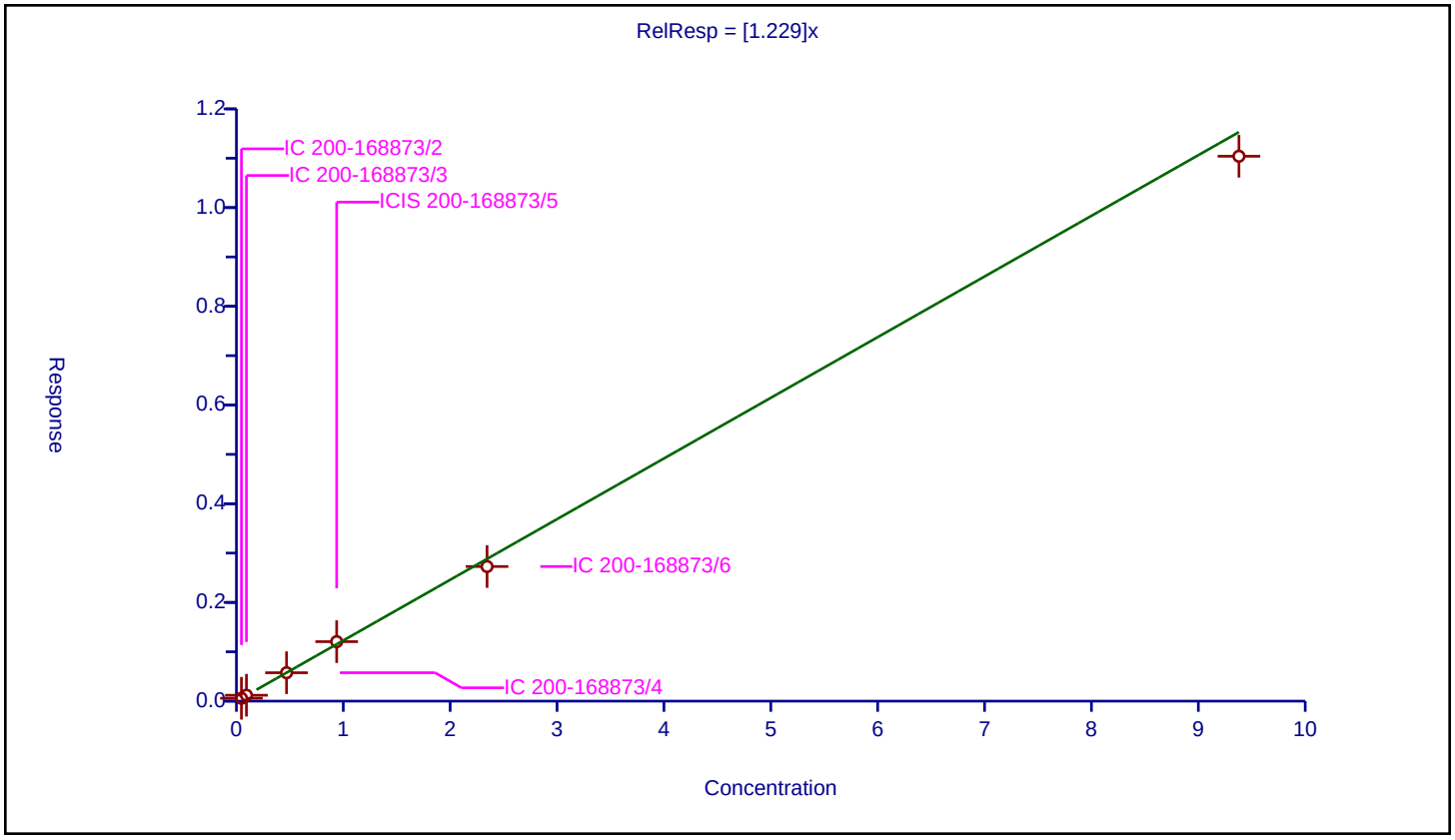
Curve Coefficients

Intercept:	0
Slope:	1.229

Error Coefficients

Standard Error:	4070000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0469	0.058432	1.1825	965256.0	1.245882	Y
2	IC 200-168873/3	0.0938	0.119728	1.1825	907499.0	1.276415	Y
3	IC 200-168873/4	0.469	0.575736	1.1825	937804.0	1.227581	Y
4	ICIS 200-168873/5	0.938	1.205297	1.1825	998847.0	1.284964	Y
5	IC 200-168873/6	2.345	2.7275	1.1825	985620.0	1.163113	Y
6	IC 200-168873/7	9.38	11.040428	1.1825	935670.0	1.177018	Y



Calibration / Perfluoro(2-propoxypropanoic) acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

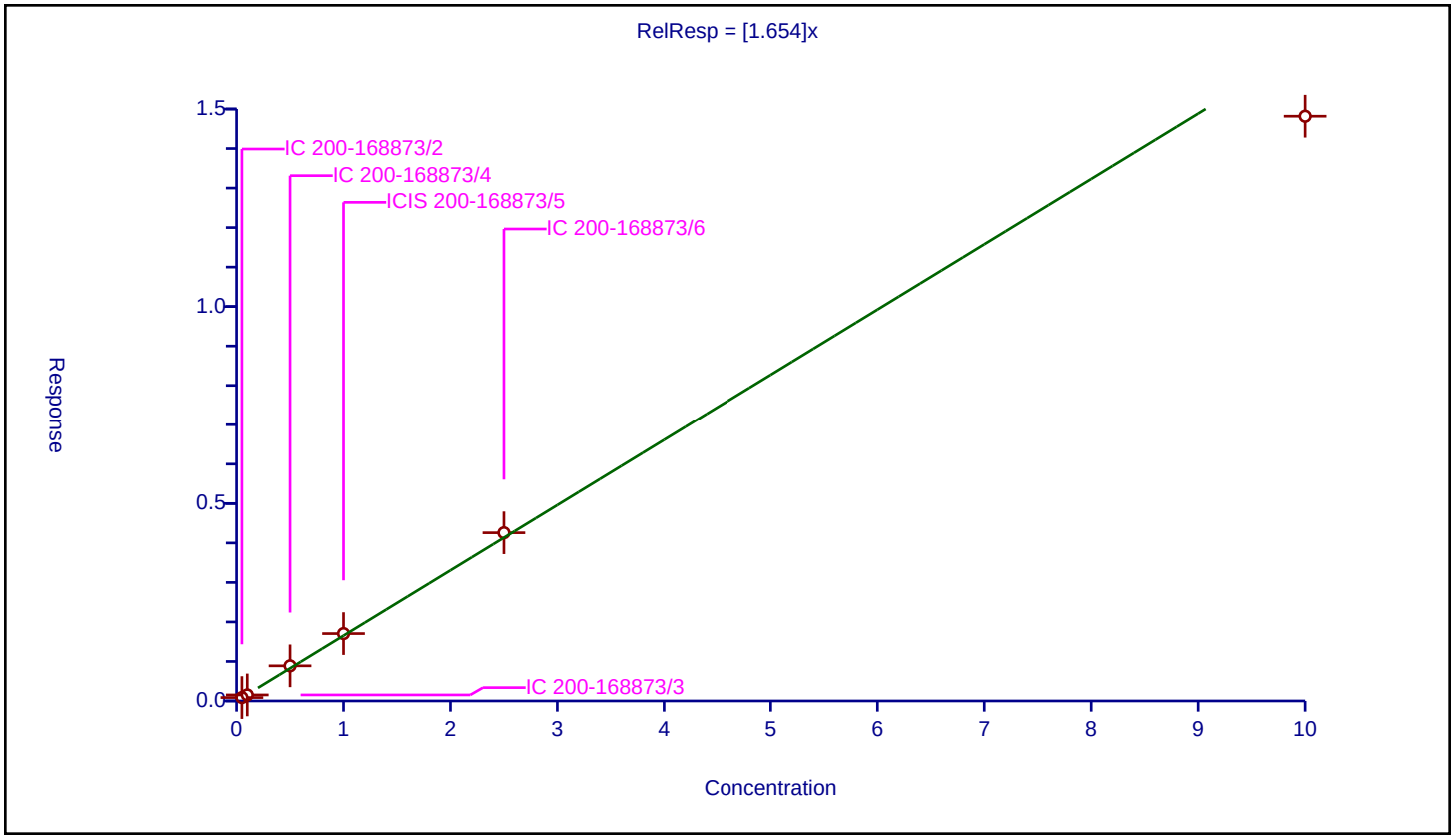
Curve Coefficients

Intercept:	0
Slope:	1.654

Error Coefficients

Standard Error:	824000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.086187	1.25	153967.0	1.723746	Y
2	IC 200-168873/3	0.1	0.152973	1.25	154872.0	1.529731	Y
3	IC 200-168873/4	0.5	0.889152	1.25	127609.0	1.778303	Y
4	ICIS 200-168873/5	1.0	1.705379	1.25	136142.0	1.705379	Y
5	IC 200-168873/6	2.5	4.259082	1.25	130787.0	1.703633	Y
6	IC 200-168873/7	10.0	14.818041	1.25	149725.0	1.481804	Y



Calibration / Perfluoroheptanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

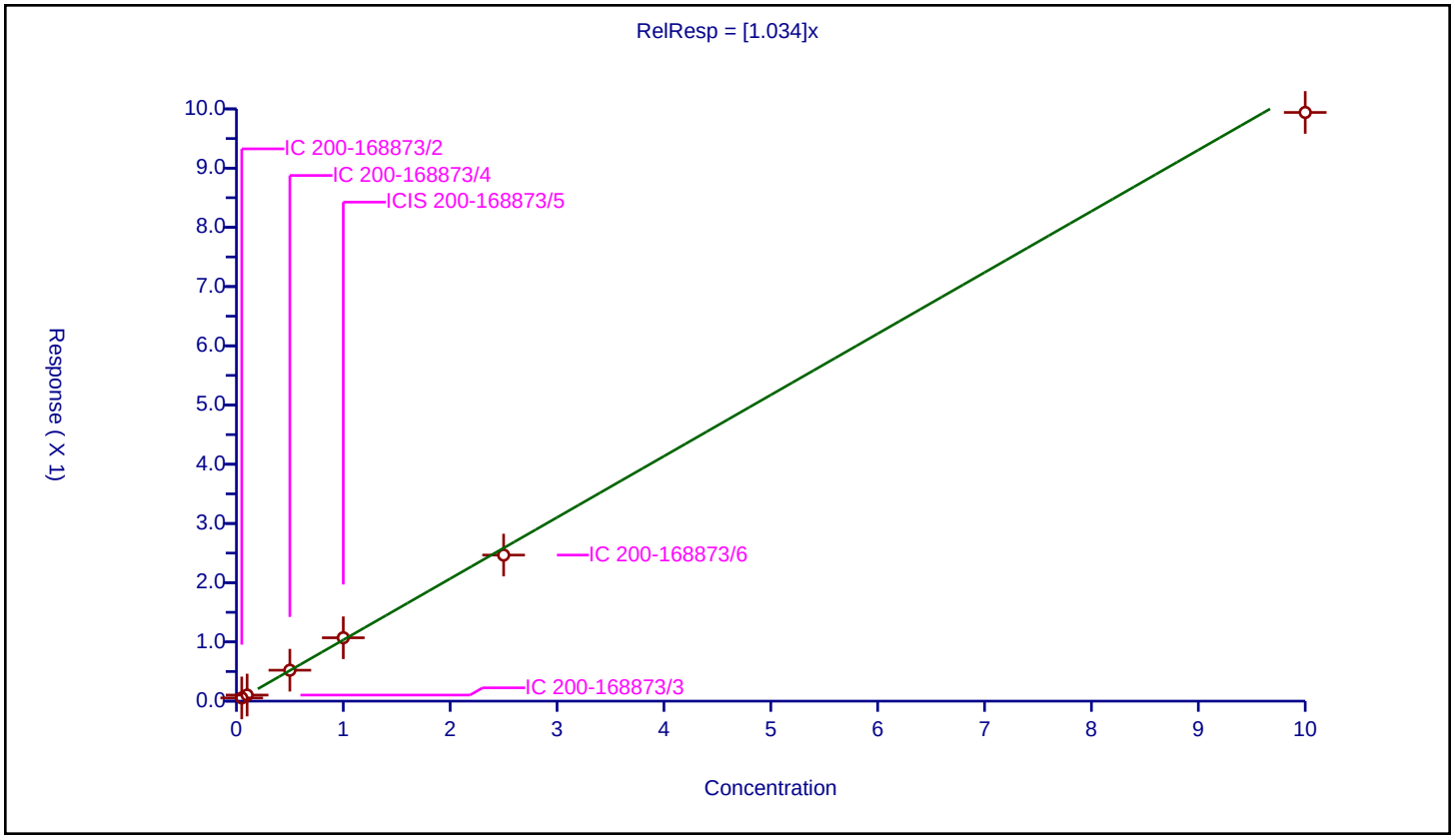
Curve Coefficients

Intercept:	0
Slope:	1.034

Error Coefficients

Standard Error:	4580000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.054042	1.25	1362229.0	1.080839	Y
2	IC 200-168873/3	0.1	0.102738	1.25	1349831.0	1.027379	Y
3	IC 200-168873/4	0.5	0.522475	1.25	1259107.0	1.044951	Y
4	ICIS 200-168873/5	1.0	1.070139	1.25	1365717.0	1.070139	Y
5	IC 200-168873/6	2.5	2.466603	1.25	1380887.0	0.986641	Y
6	IC 200-168873/7	10.0	9.94034	1.25	1230462.0	0.994034	Y



Calibration / Perfluorohexanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

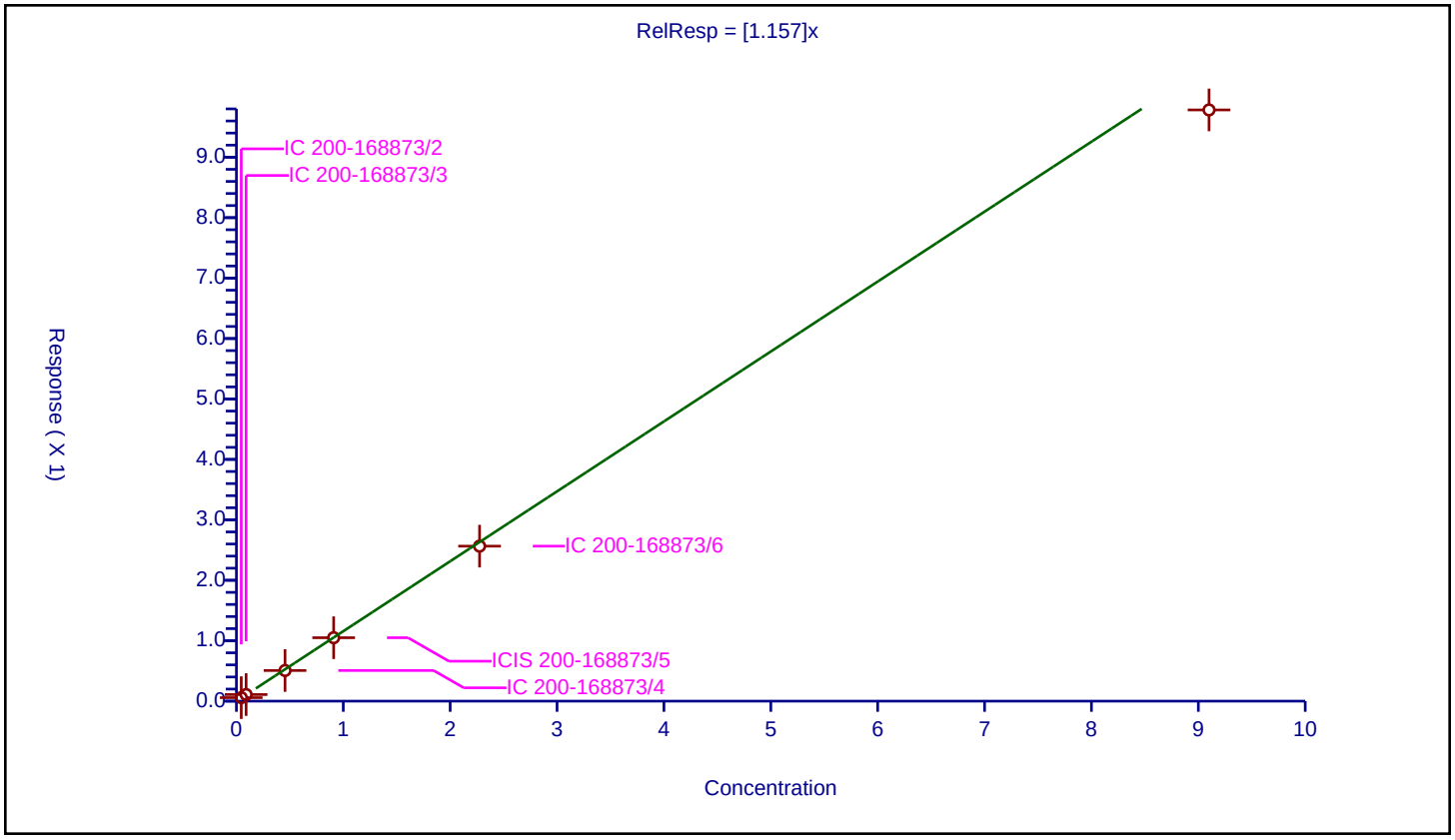
Curve Coefficients

Intercept:	0
Slope:	1.157

Error Coefficients

Standard Error:	3620000
Relative Standard Error:	6.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0455	0.057979	1.1825	965256.0	1.274255	Y
2	IC 200-168873/3	0.091	0.109048	1.1825	907499.0	1.198331	Y
3	IC 200-168873/4	0.455	0.506897	1.1825	937804.0	1.114059	Y
4	ICIS 200-168873/5	0.91	1.04949	1.1825	998847.0	1.153286	Y
5	IC 200-168873/6	2.275	2.564714	1.1825	985620.0	1.127347	Y
6	IC 200-168873/7	9.1	9.782811	1.1825	935670.0	1.075034	Y



Calibration / DONA

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

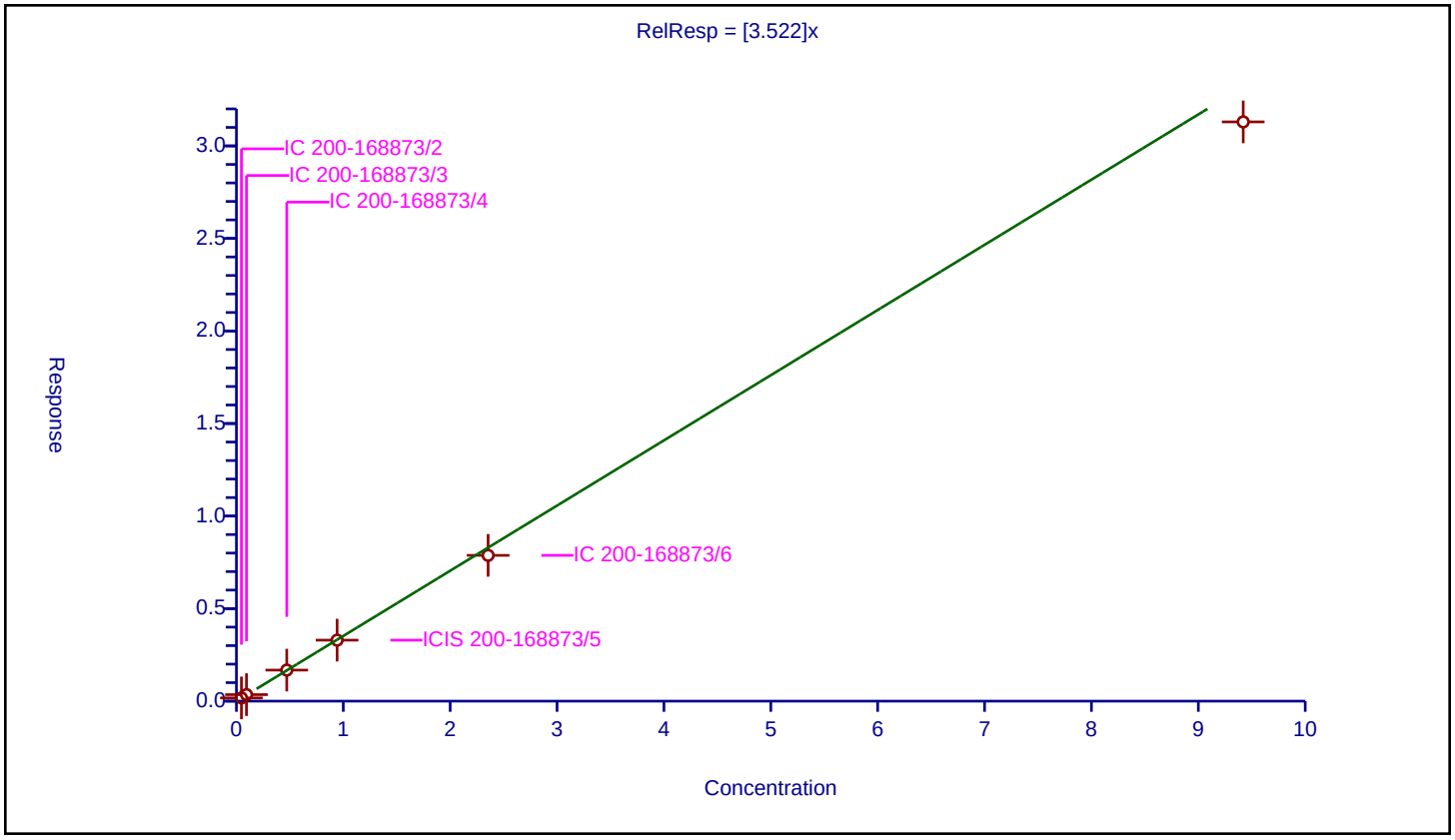
Curve Coefficients

Intercept:	0
Slope:	3.522

Error Coefficients

Standard Error:	8400000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0471	0.173236	1.195	712637.0	3.678043	Y
2	IC 200-168873/3	0.0942	0.351133	1.195	661239.0	3.727522	Y
3	IC 200-168873/4	0.471	1.677599	1.195	686404.0	3.56178	Y
4	ICIS 200-168873/5	0.942	3.295353	1.195	739646.0	3.498252	Y
5	IC 200-168873/6	2.355	7.876975	1.195	741138.0	3.344787	Y
6	IC 200-168873/7	9.42	31.297158	1.195	686805.0	3.322416	Y



Calibration / Perfluoroheptanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

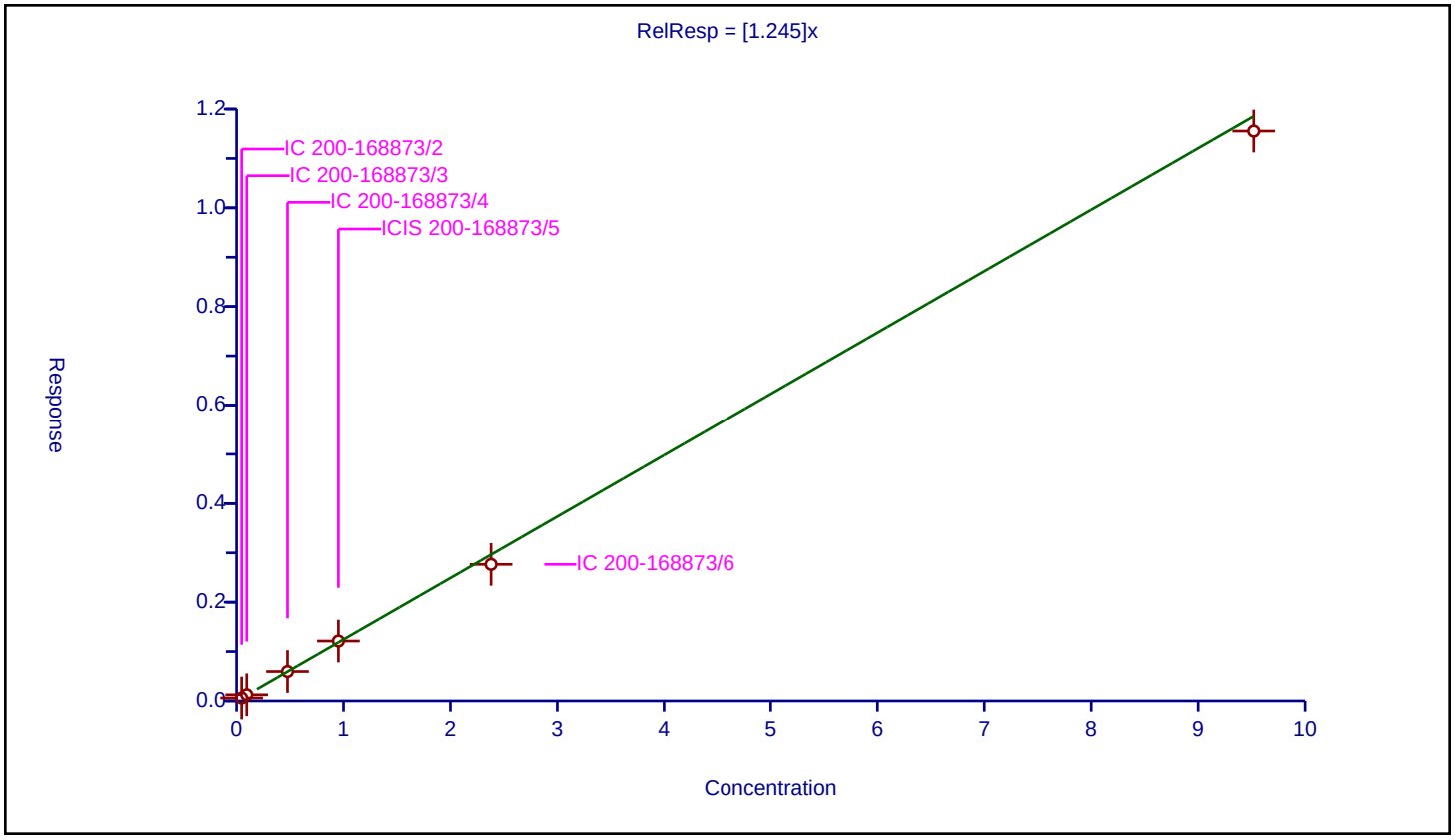
Curve Coefficients

Intercept:	0
Slope:	1.245

Error Coefficients

Standard Error:	3090000
Relative Standard Error:	4.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0476	0.059869	1.195	712637.0	1.257759	Y
2	IC 200-168873/3	0.0952	0.124781	1.195	661239.0	1.310723	Y
3	IC 200-168873/4	0.476	0.595987	1.195	686404.0	1.252074	Y
4	ICIS 200-168873/5	0.952	1.213628	1.195	739646.0	1.27482	Y
5	IC 200-168873/6	2.38	2.766374	1.195	741138.0	1.162342	Y
6	IC 200-168873/7	9.52	11.554748	1.195	686805.0	1.213734	Y



Calibration / 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

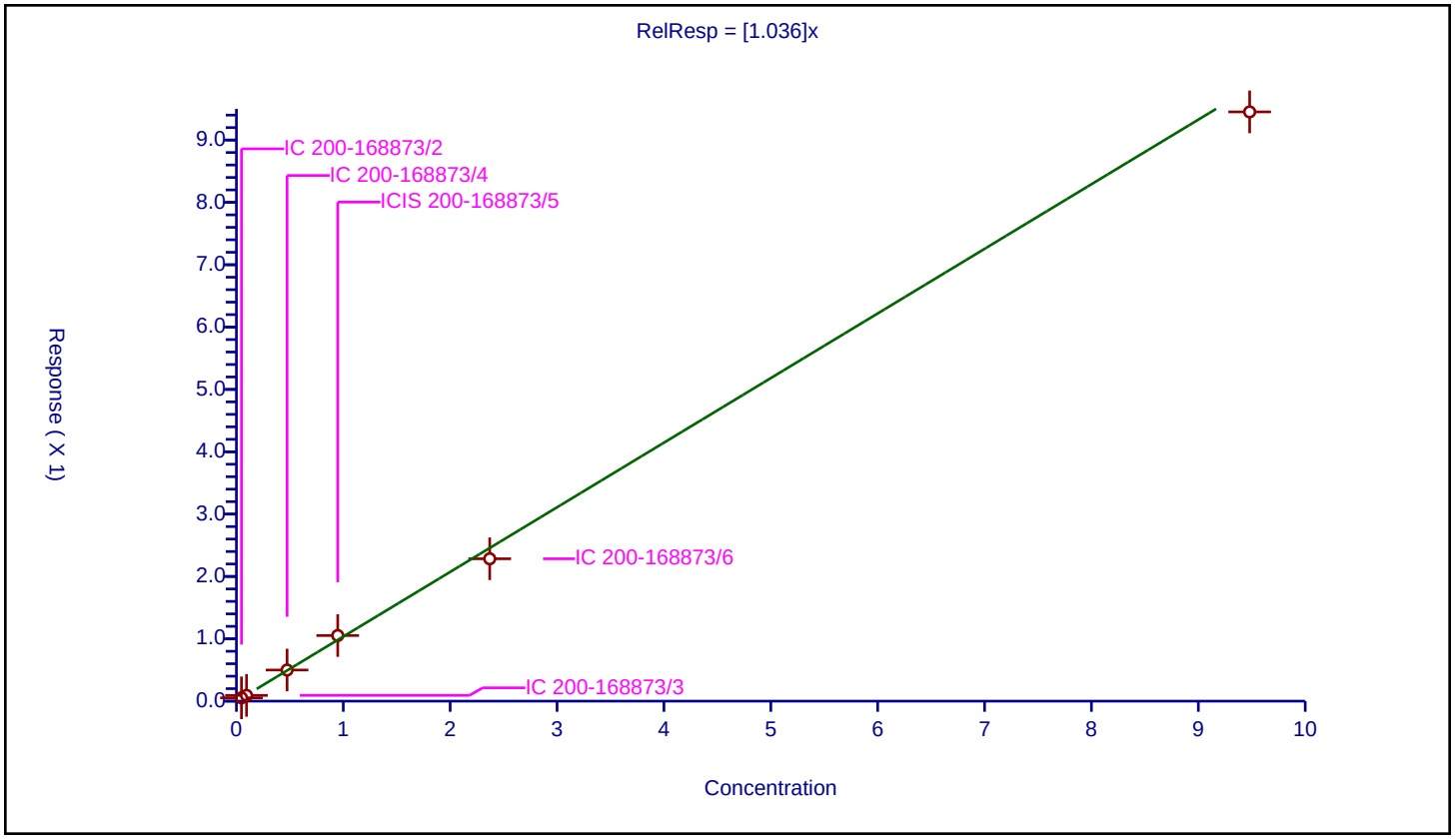
Curve Coefficients

Intercept:	0
Slope:	1.036

Error Coefficients

Standard Error:	475000
Relative Standard Error:	6.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0474	0.053258	1.1875	131554.0	1.123578	Y
2	IC 200-168873/3	0.0948	0.092041	1.1875	131237.0	0.970902	Y
3	IC 200-168873/4	0.474	0.499174	1.1875	133182.0	1.05311	Y
4	ICIS 200-168873/5	0.948	1.052533	1.1875	139271.0	1.110267	Y
5	IC 200-168873/6	2.37	2.283823	1.1875	134266.0	0.963639	Y
6	IC 200-168873/7	9.48	9.451573	1.1875	128370.0	0.997001	Y



Calibration / Perfluorooctanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

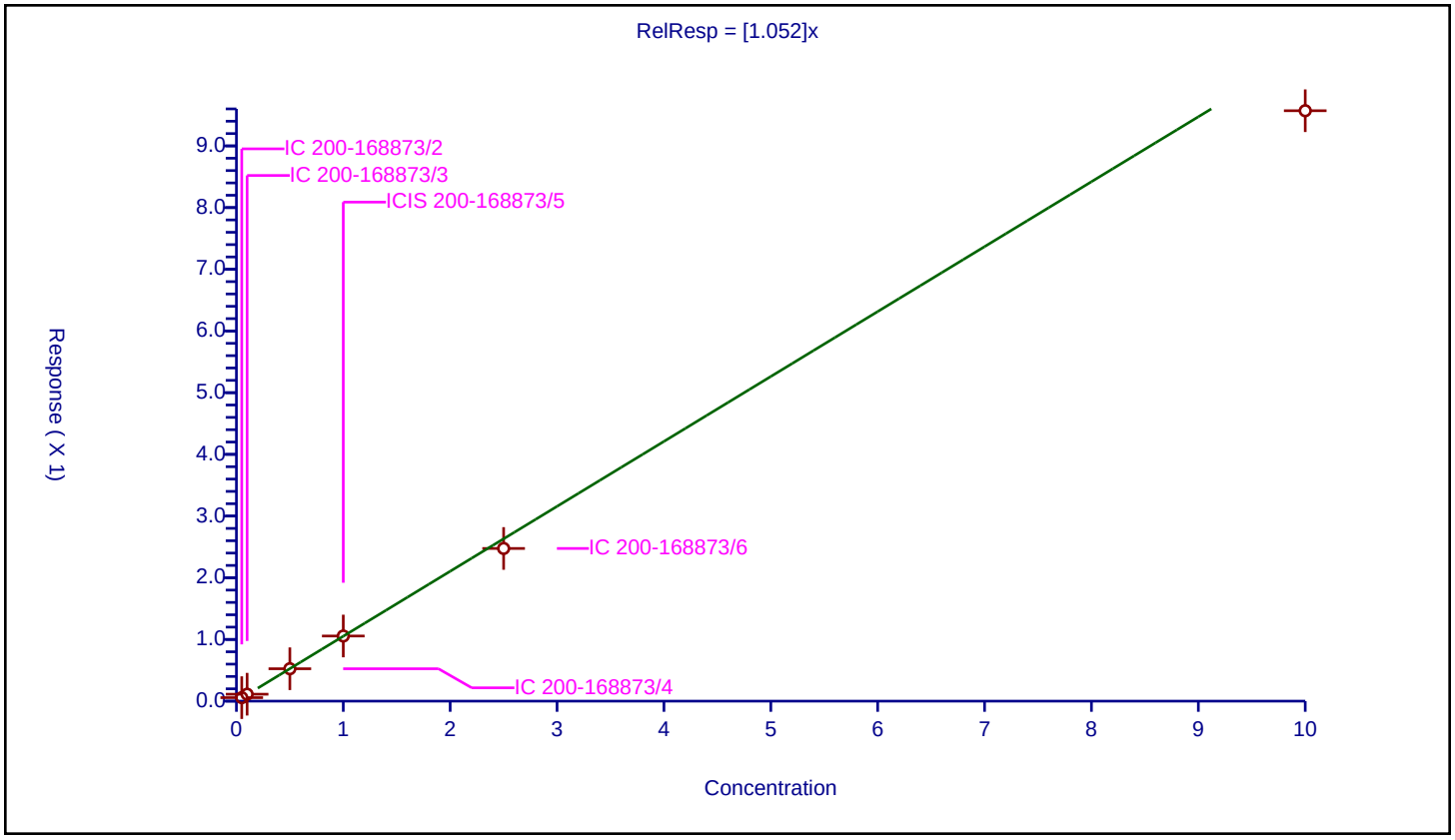
Curve Coefficients

Intercept:	0
Slope:	1.052

Error Coefficients

Standard Error:	4620000
Relative Standard Error:	6.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.056818	1.25	1400455.0	1.136363	Y
2	IC 200-168873/3	0.1	0.112495	1.25	1318355.0	1.124953	Y
3	IC 200-168873/4	0.5	0.525388	1.25	1353447.0	1.050776	Y
4	ICIS 200-168873/5	1.0	1.055742	1.25	1439464.0	1.055742	Y
5	IC 200-168873/6	2.5	2.474733	1.25	1409693.0	0.989893	Y
6	IC 200-168873/7	10.0	9.570047	1.25	1287896.0	0.957005	Y



Calibration / Perfluorooctanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

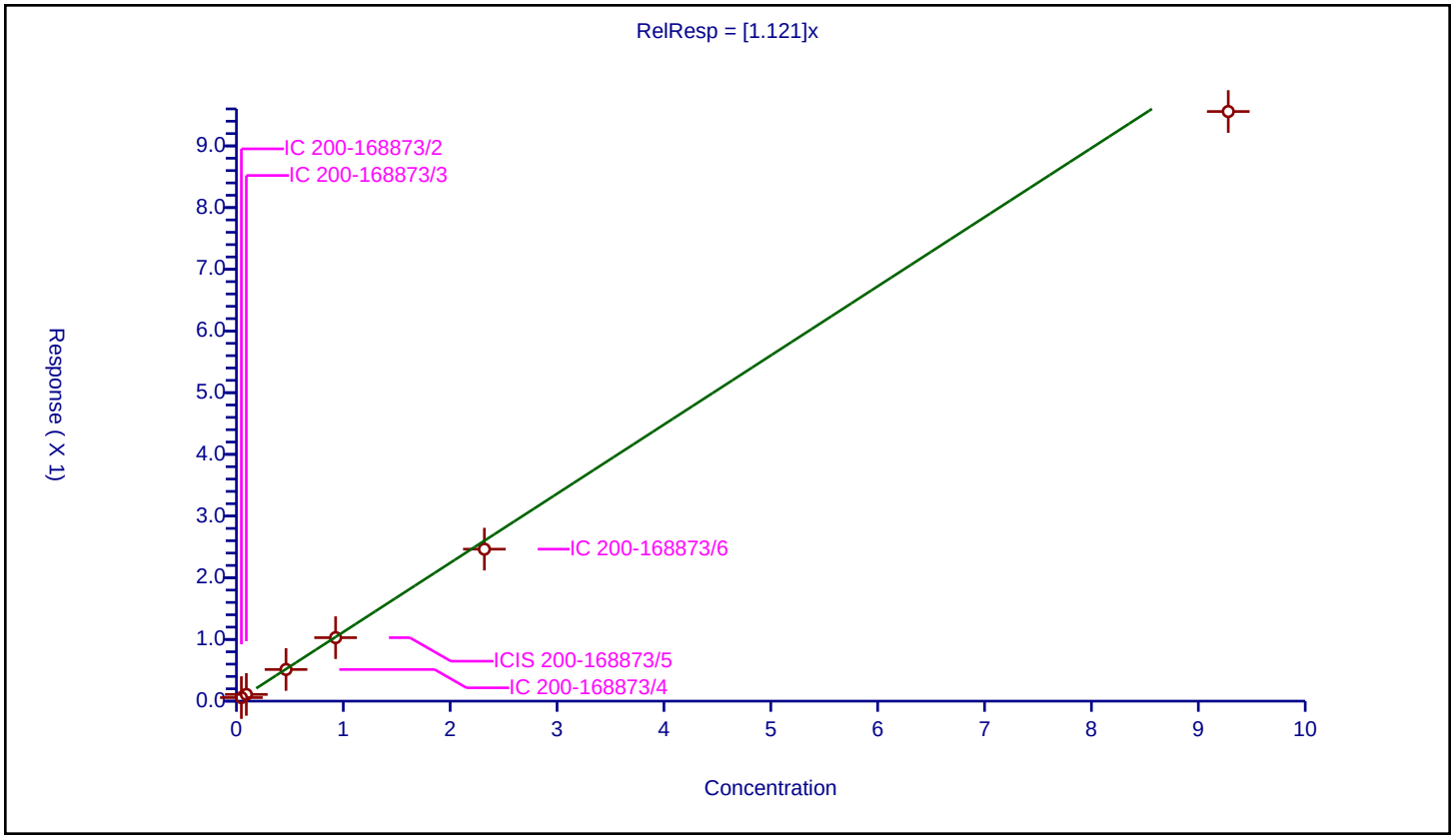
Curve Coefficients

Intercept:	0
Slope:	1.121

Error Coefficients

Standard Error:	2570000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0464	0.057778	1.195	712637.0	1.245221	Y
2	IC 200-168873/3	0.0928	0.108856	1.195	661239.0	1.173014	Y
3	IC 200-168873/4	0.464	0.5129	1.195	686404.0	1.105388	Y
4	ICIS 200-168873/5	0.928	1.028938	1.195	739646.0	1.10877	Y
5	IC 200-168873/6	2.32	2.463409	1.195	741138.0	1.061814	Y
6	IC 200-168873/7	9.28	9.557662	1.195	686805.0	1.02992	Y



Calibration / Perfluorononanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

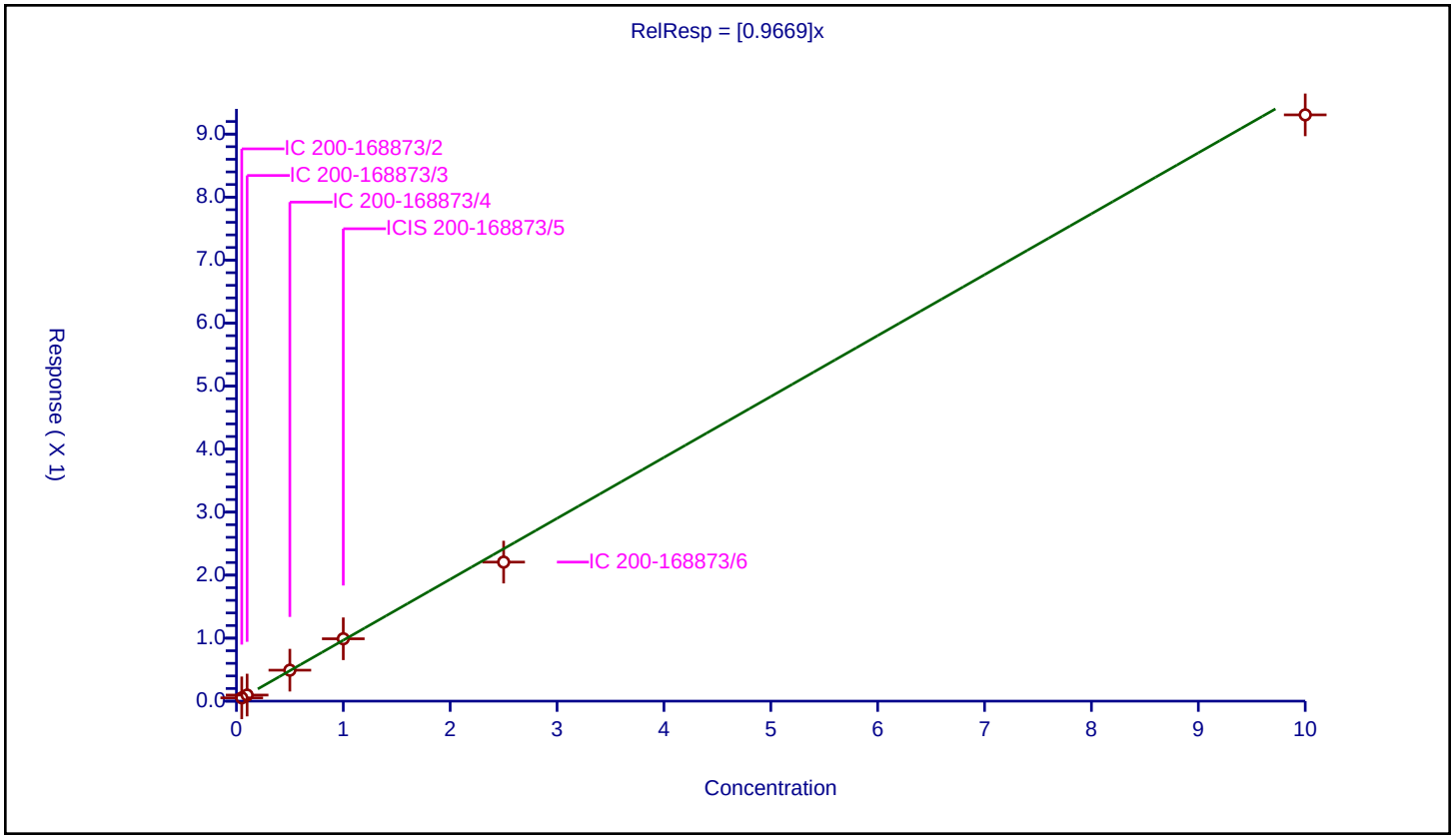
Curve Coefficients

Intercept:	0
Slope:	0.9669

Error Coefficients

Standard Error:	4330000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.052412	1.25	1341900.0	1.048234	Y
2	IC 200-168873/3	0.1	0.096746	1.25	1217333.0	0.967463	Y
3	IC 200-168873/4	0.5	0.491316	1.25	1255153.0	0.982631	Y
4	ICIS 200-168873/5	1.0	0.989925	1.25	1371692.0	0.989925	Y
5	IC 200-168873/6	2.5	2.206918	1.25	1363020.0	0.882767	Y
6	IC 200-168873/7	10.0	9.305386	1.25	1250471.0	0.930539	Y



Calibration / 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

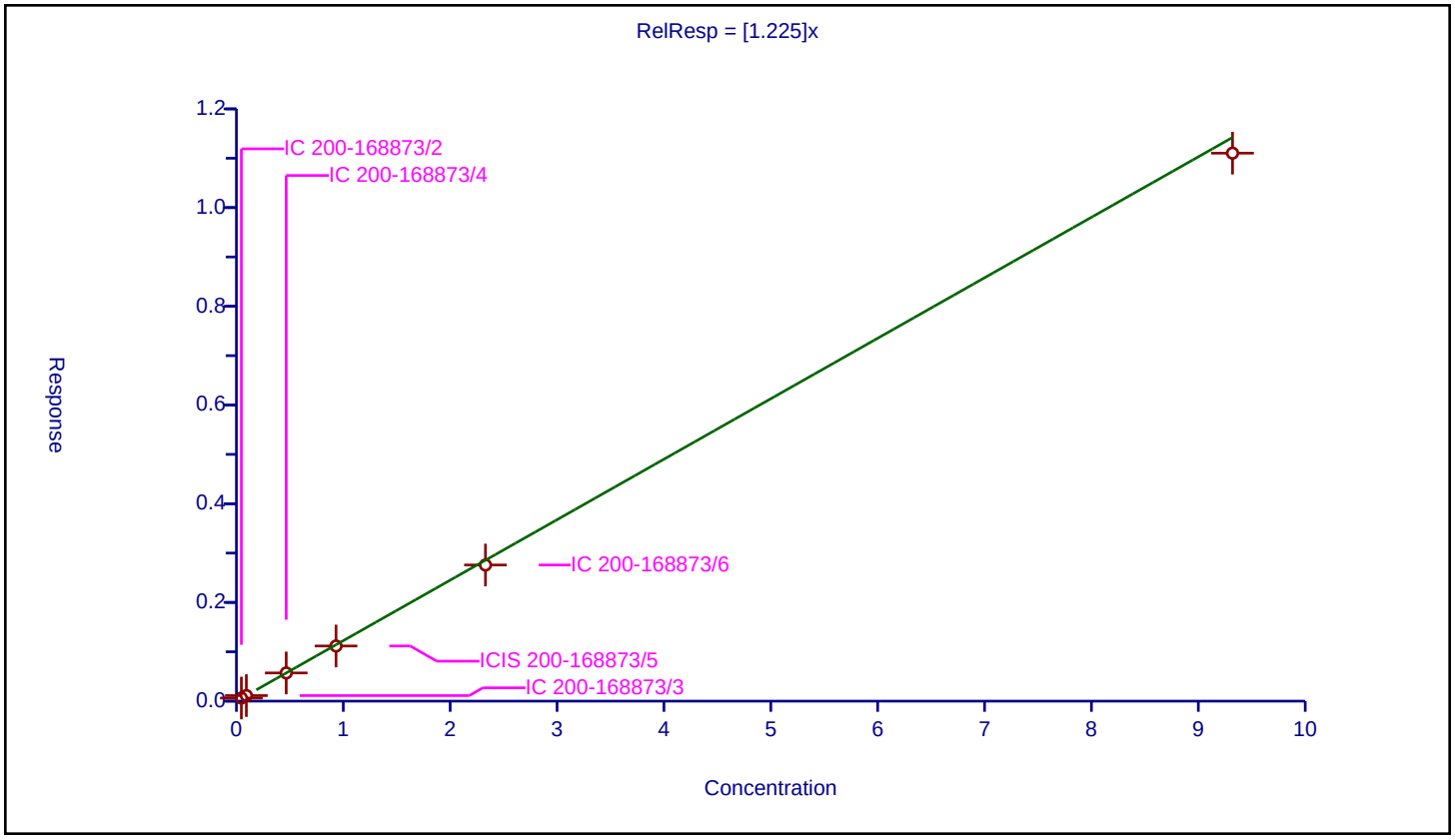
Curve Coefficients

Intercept:	0
Slope:	1.225

Error Coefficients

Standard Error:	2970000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0466	0.062847	1.195	712637.0	1.348657	Y
2	IC 200-168873/3	0.0932	0.112277	1.195	661239.0	1.204686	Y
3	IC 200-168873/4	0.466	0.571128	1.195	686404.0	1.225597	Y
4	ICIS 200-168873/5	0.932	1.117285	1.195	739646.0	1.198803	Y
5	IC 200-168873/6	2.33	2.75834	1.195	741138.0	1.183837	Y
6	IC 200-168873/7	9.32	11.103079	1.195	686805.0	1.191317	Y



Calibration / Perfluorononanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

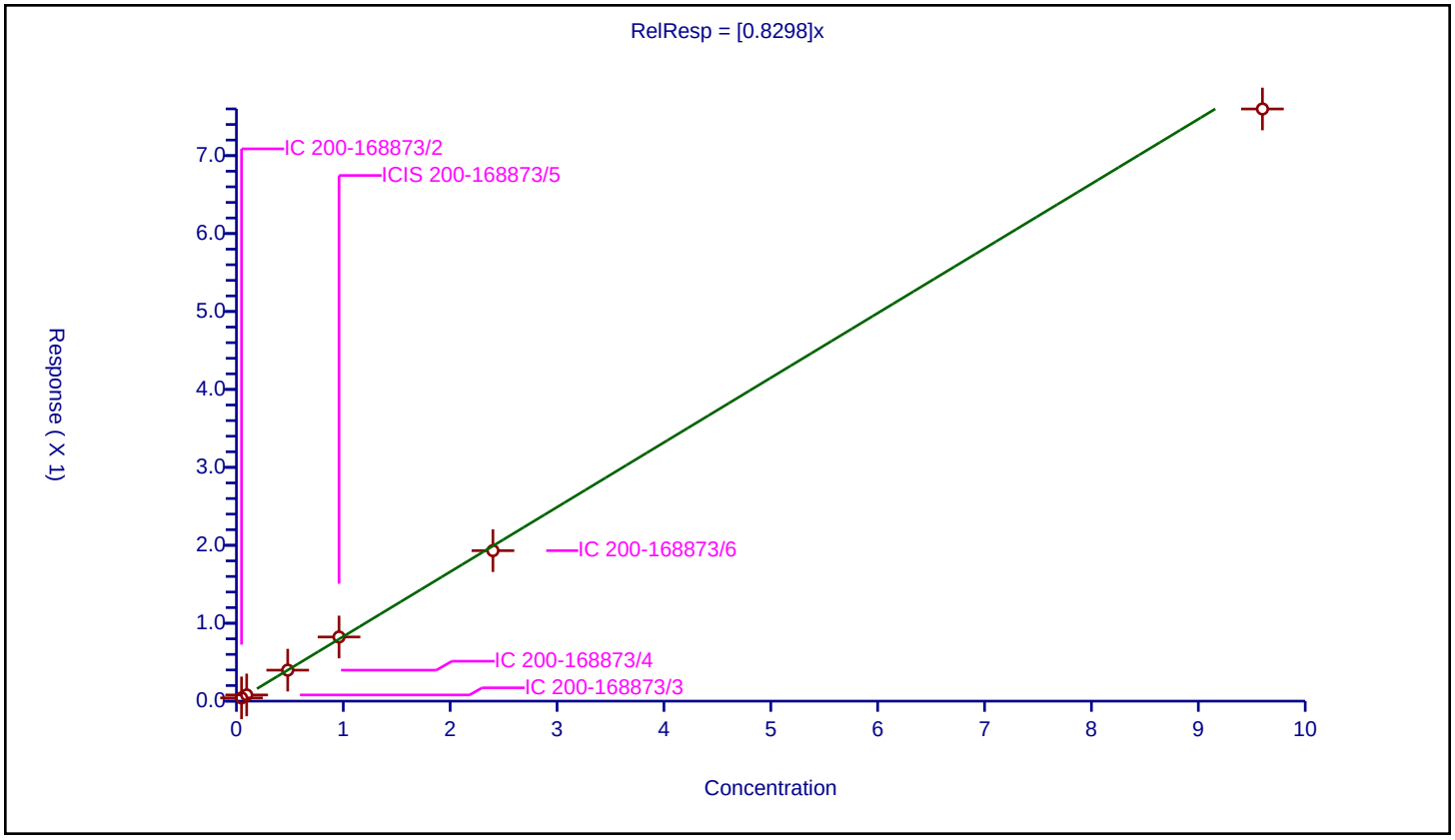
Curve Coefficients

Intercept:	0
Slope:	0.8298

Error Coefficients

Standard Error:	2040000
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.048	0.041662	1.195	712637.0	0.867955	Y
2	IC 200-168873/3	0.096	0.079541	1.195	661239.0	0.828551	Y
3	IC 200-168873/4	0.48	0.39779	1.195	686404.0	0.828728	Y
4	ICIS 200-168873/5	0.96	0.823148	1.195	739646.0	0.857446	Y
5	IC 200-168873/6	2.4	1.93121	1.195	741138.0	0.804671	Y
6	IC 200-168873/7	9.6	7.599139	1.195	686805.0	0.791577	Y



Calibration / Perfluorodecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

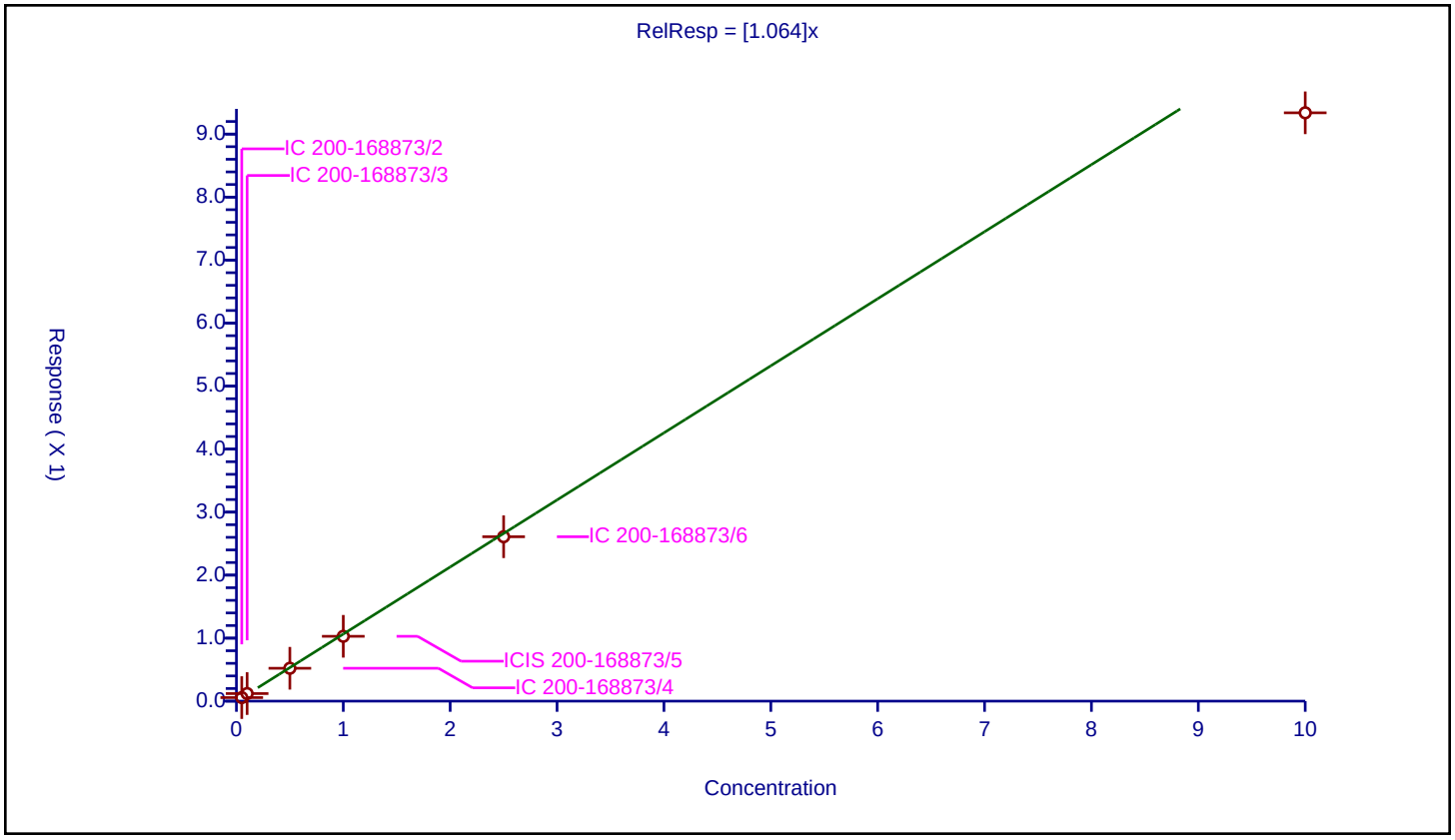
Curve Coefficients

Intercept:	0
Slope:	1.064

Error Coefficients

Standard Error:	4000000
Relative Standard Error:	8.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.05658	1.25	1210351.0	1.131593	Y
2	IC 200-168873/3	0.1	0.12047	1.25	1089788.0	1.204695	Y
3	IC 200-168873/4	0.5	0.52189	1.25	1154945.0	1.043779	Y
4	ICIS 200-168873/5	1.0	1.029038	1.25	1251726.0	1.029038	Y
5	IC 200-168873/6	2.5	2.609303	1.25	1230009.0	1.043721	Y
6	IC 200-168873/7	10.0	9.337989	1.25	1138132.0	0.933799	Y



Calibration / 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

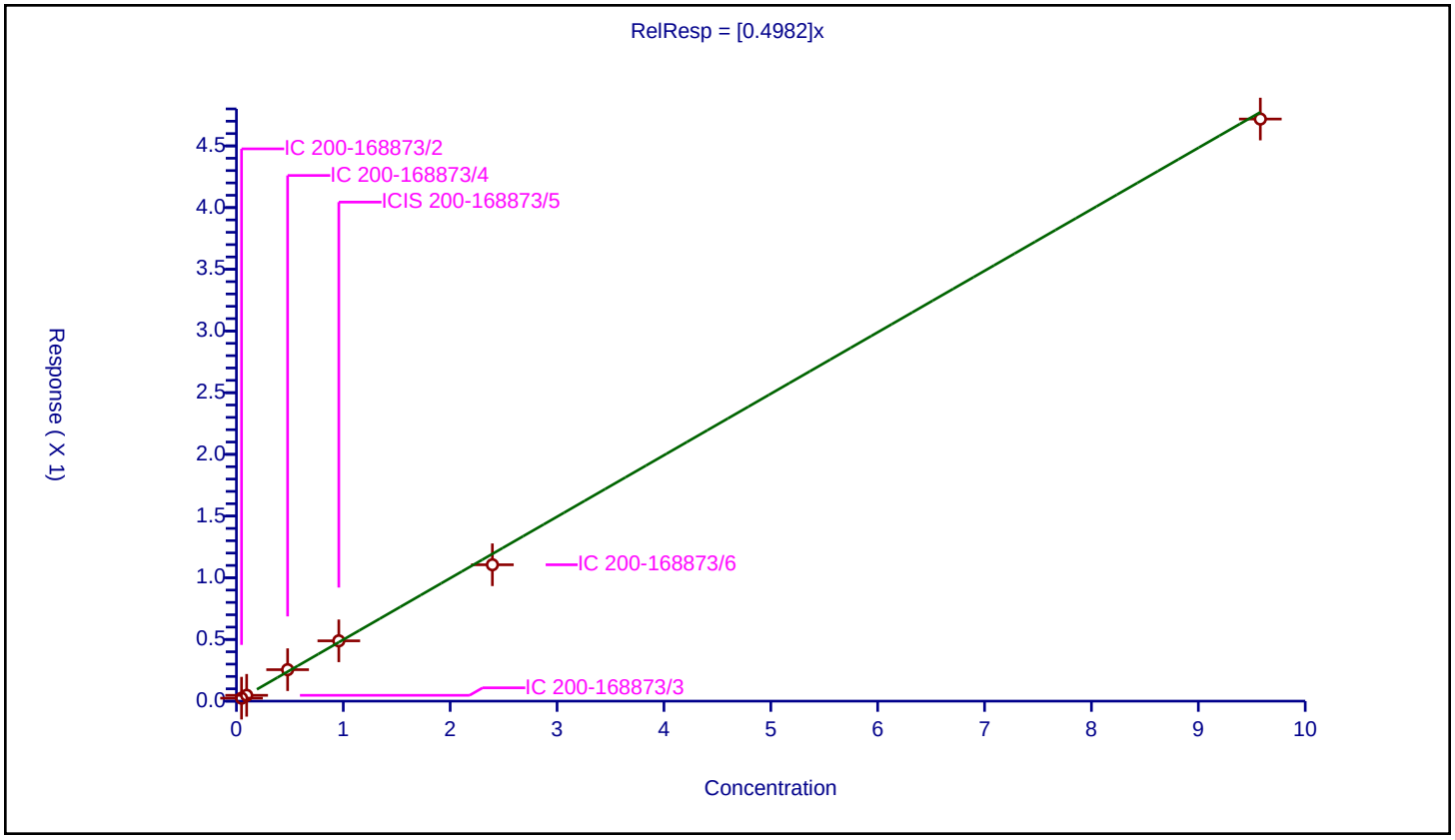
Curve Coefficients

Intercept:	0
Slope:	0.4982

Error Coefficients

Standard Error:	281000
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0479	0.024013	1.1975	164067.0	0.50132	Y
2	IC 200-168873/3	0.0958	0.047067	1.1975	150847.0	0.491309	Y
3	IC 200-168873/4	0.479	0.255031	1.1975	162319.0	0.532424	Y
4	ICIS 200-168873/5	0.958	0.488921	1.1975	157618.0	0.510356	Y
5	IC 200-168873/6	2.395	1.105365	1.1975	170914.0	0.46153	Y
6	IC 200-168873/7	9.58	4.717833	1.1975	153059.0	0.492467	Y



Calibration / Perfluorooctanesulfonamide

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

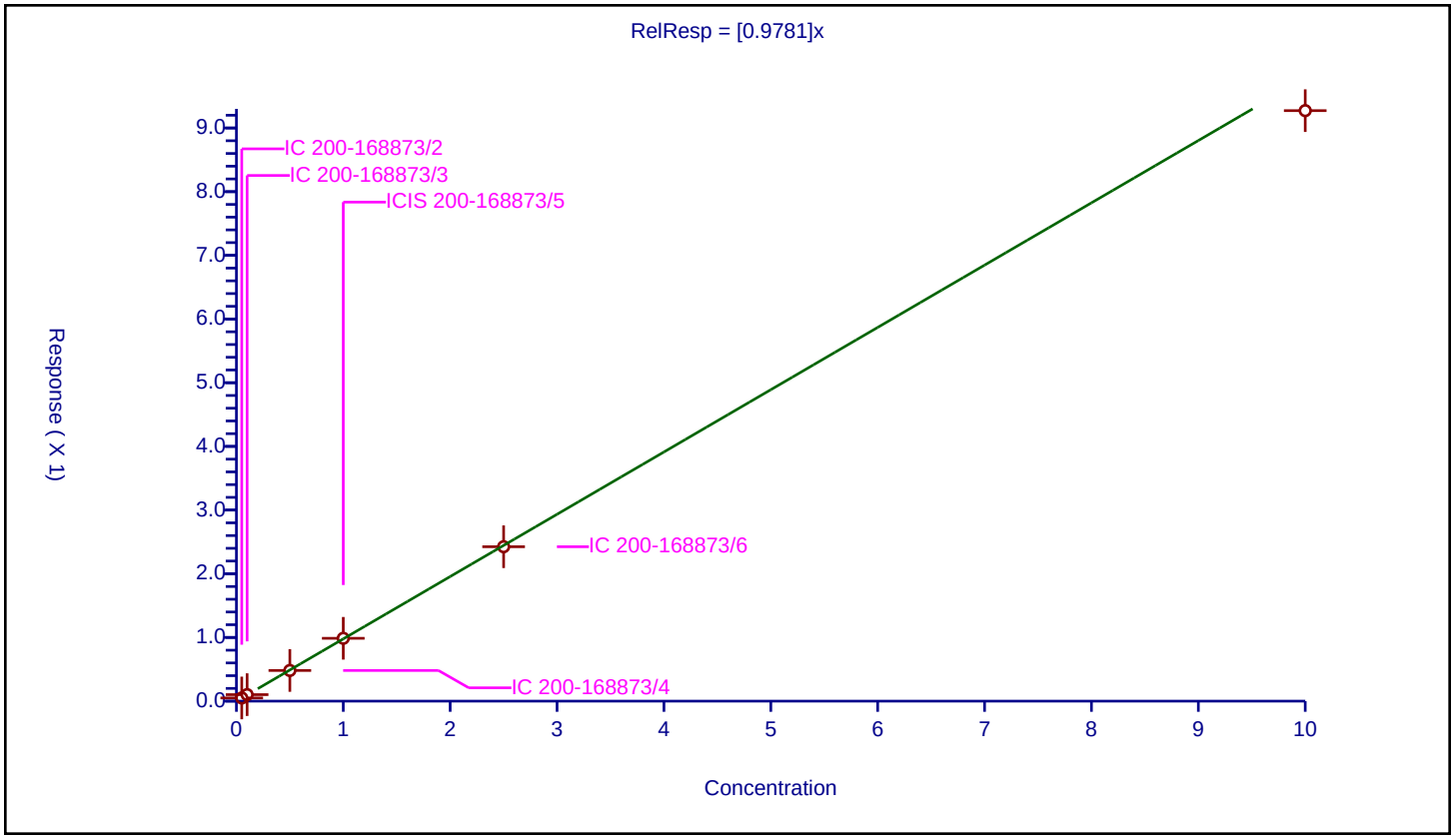
Curve Coefficients

Intercept:	0
Slope:	0.9781

Error Coefficients

Standard Error:	4220000
Relative Standard Error:	3.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.049866	1.25	1285037.0	0.997325	Y
2	IC 200-168873/3	0.1	0.102356	1.25	1248356.0	1.023556	Y
3	IC 200-168873/4	0.5	0.481767	1.25	1306977.0	0.963535	Y
4	ICIS 200-168873/5	1.0	0.98698	1.25	1395013.0	0.98698	Y
5	IC 200-168873/6	2.5	2.424855	1.25	1355436.0	0.969942	Y
6	IC 200-168873/7	10.0	9.27239	1.25	1211121.0	0.927239	Y



Calibration / N-methylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

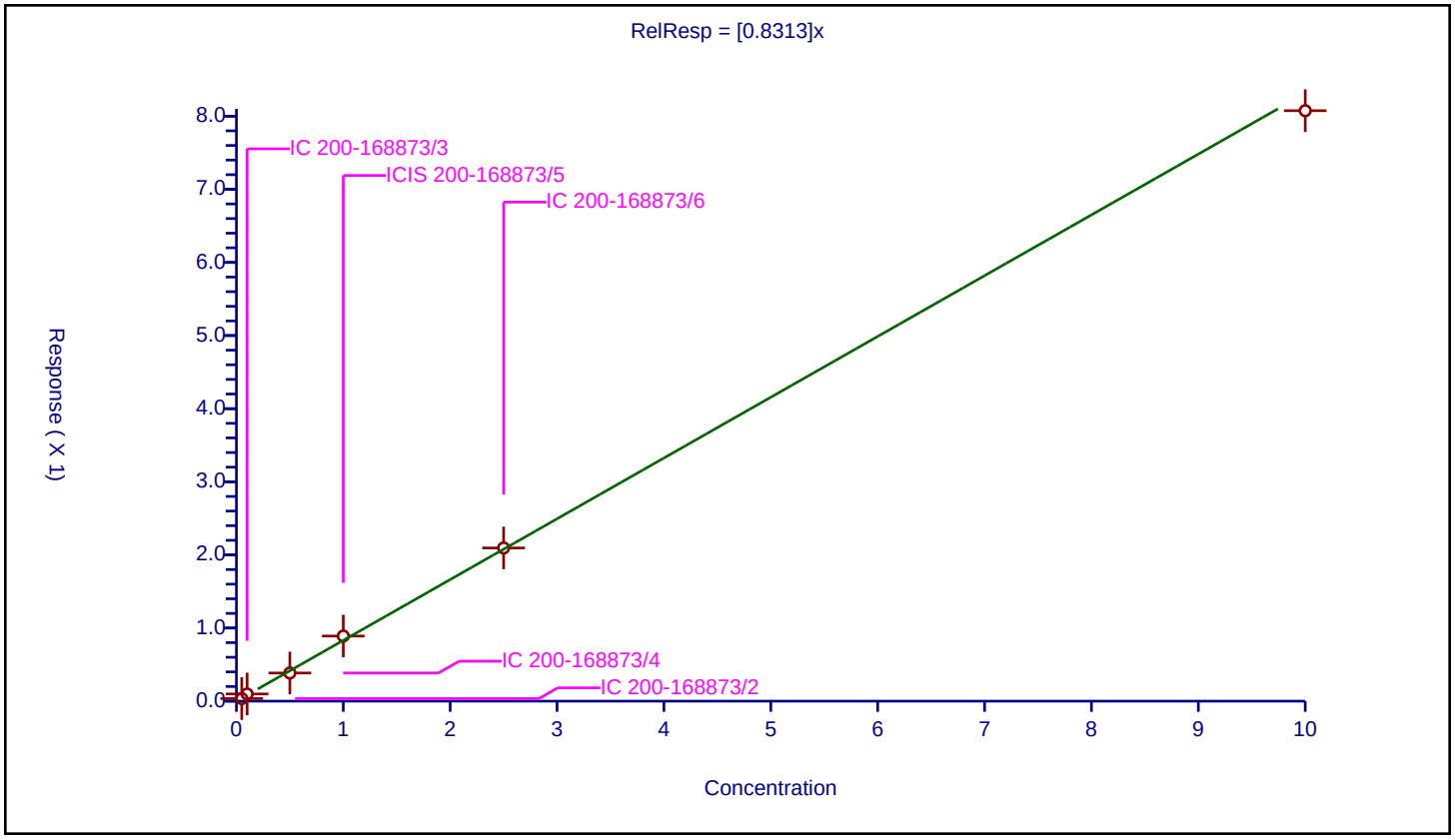
Curve Coefficients

Intercept:	0
Slope:	0.8313

Error Coefficients

Standard Error:	263000
Relative Standard Error:	11.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.03504	1.25	78411.0	0.700795	Y
2	IC 200-168873/3	0.1	0.098109	1.25	83033.0	0.981086	Y
3	IC 200-168873/4	0.5	0.384982	1.25	85387.0	0.769965	Y
4	ICIS 200-168873/5	1.0	0.890276	1.25	94423.0	0.890276	Y
5	IC 200-168873/6	2.5	2.095218	1.25	91401.0	0.838087	Y
6	IC 200-168873/7	10.0	8.075244	1.25	87263.0	0.807524	Y



Calibration / Perfluorodecanesulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

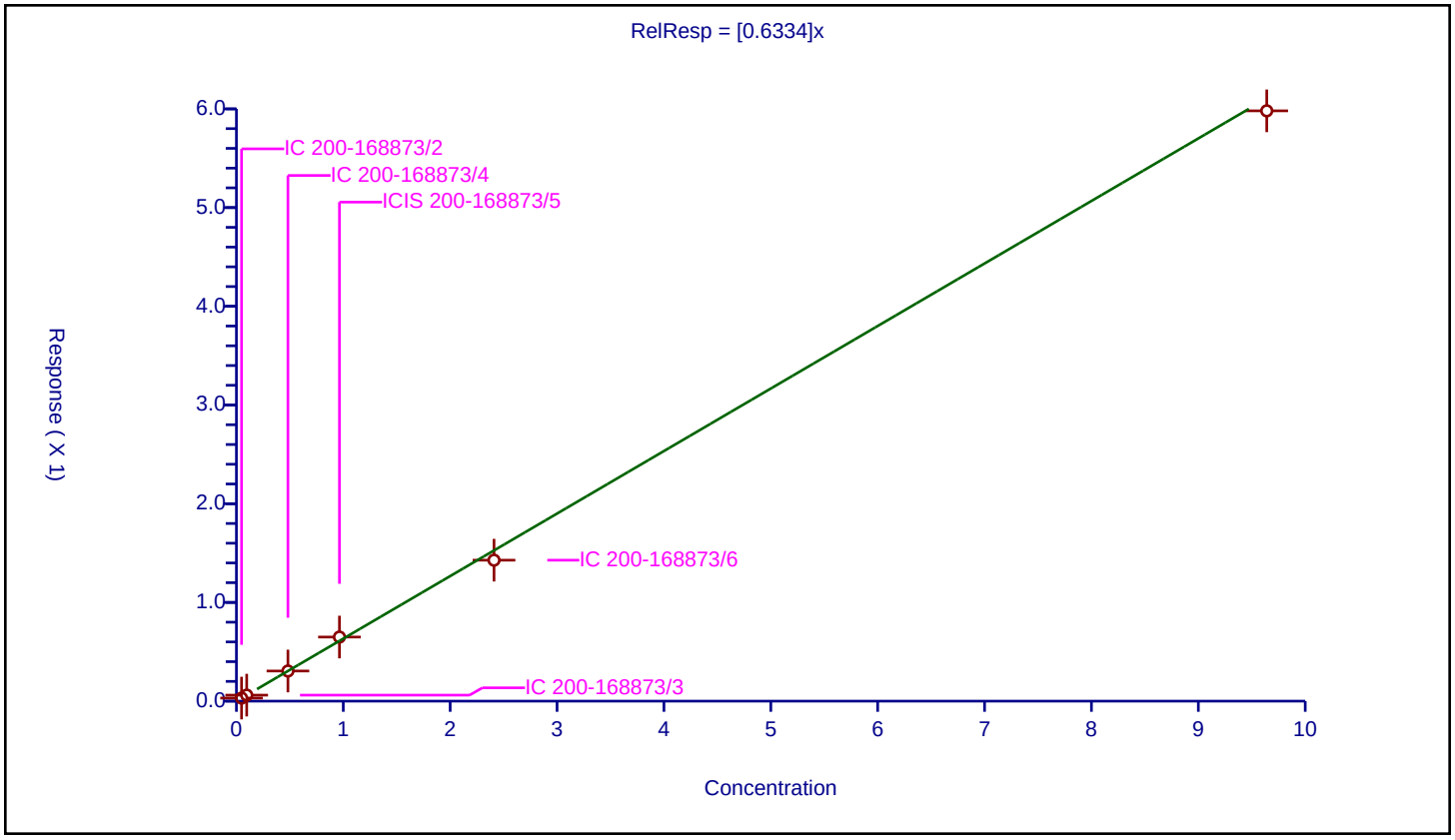
Curve Coefficients

Intercept:	0
Slope:	0.6334

Error Coefficients

Standard Error:	1600000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0482	0.031277	1.195	712637.0	0.6489	Y
2	IC 200-168873/3	0.0964	0.06086	1.195	661239.0	0.631325	Y
3	IC 200-168873/4	0.482	0.305414	1.195	686404.0	0.63364	Y
4	ICIS 200-168873/5	0.964	0.649314	1.195	739646.0	0.673562	Y
5	IC 200-168873/6	2.41	1.428149	1.195	741138.0	0.592593	Y
6	IC 200-168873/7	9.64	5.98042	1.195	686805.0	0.620376	Y



Calibration / Perfluoroundecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

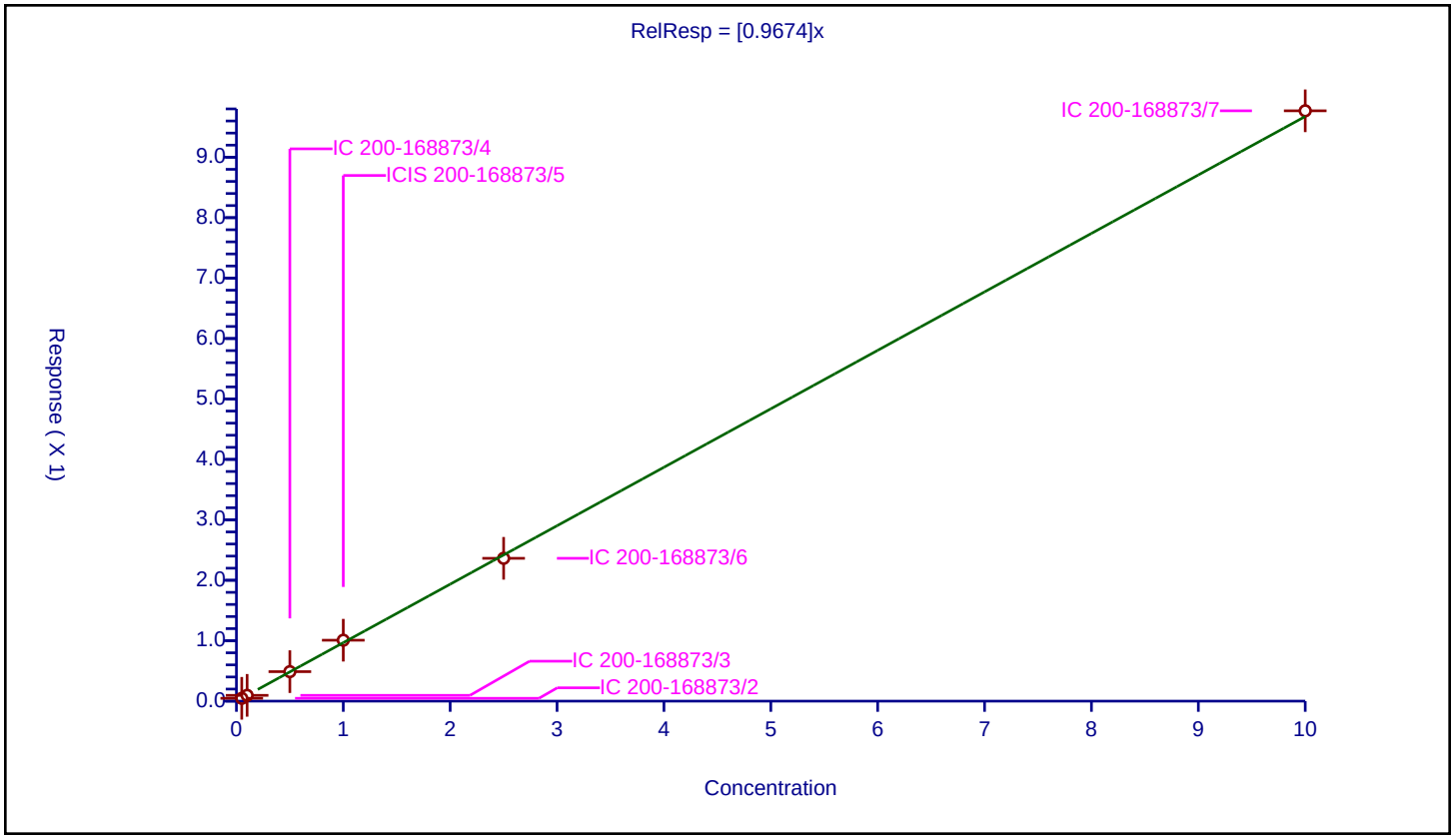
Curve Coefficients

Intercept:	0
Slope:	0.9674

Error Coefficients

Standard Error:	3180000
Relative Standard Error:	2.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.046918	1.25	983851.0	0.938353	Y
2	IC 200-168873/3	0.1	0.095983	1.25	927192.0	0.959834	Y
3	IC 200-168873/4	0.5	0.488057	1.25	900133.0	0.976114	Y
4	ICIS 200-168873/5	1.0	1.008143	1.25	950646.0	1.008143	Y
5	IC 200-168873/6	2.5	2.363433	1.25	974207.0	0.945373	Y
6	IC 200-168873/7	10.0	9.76812	1.25	871958.0	0.976812	Y



Calibration / N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

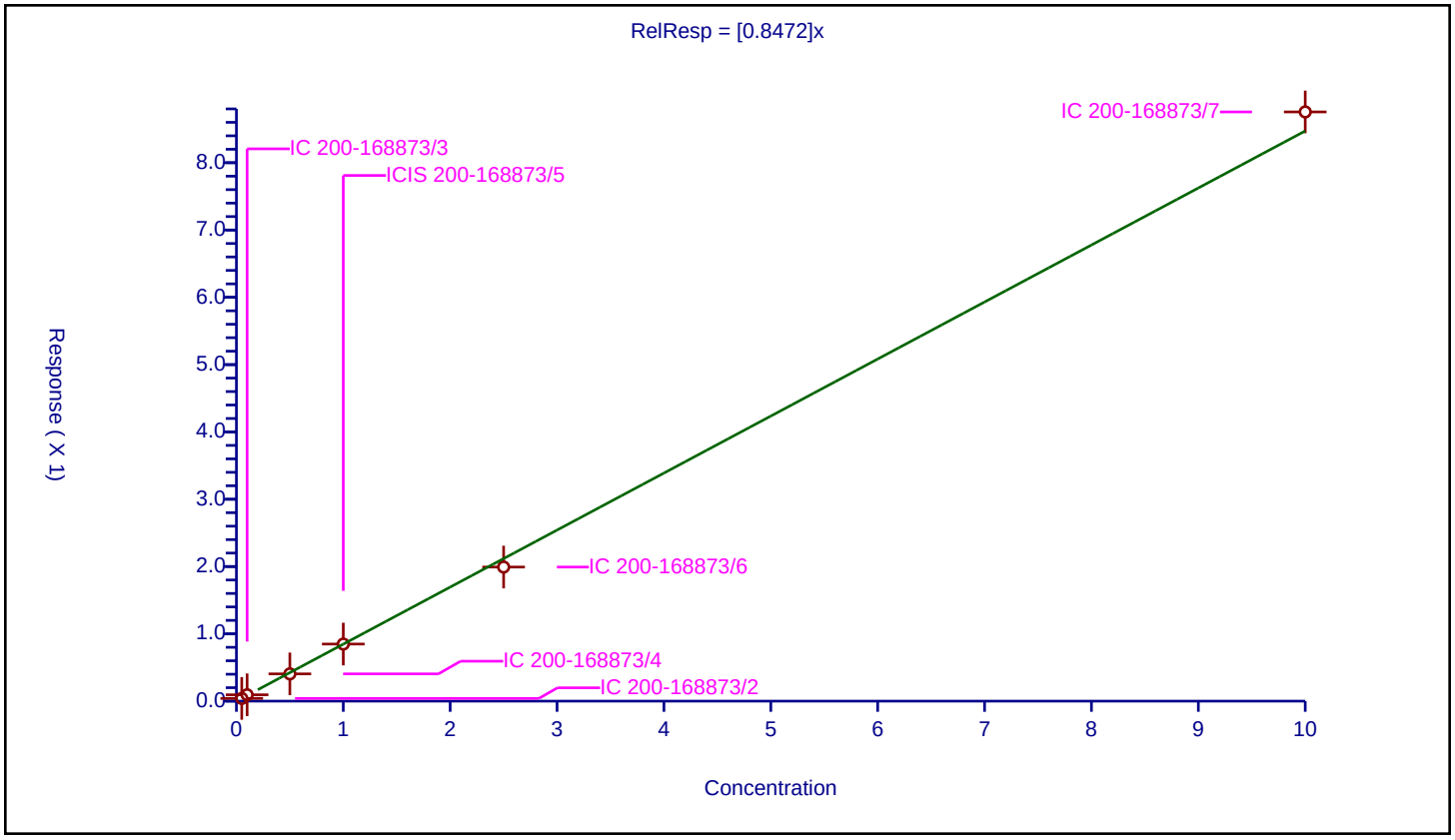
Curve Coefficients

Intercept:	0
Slope:	0.8472

Error Coefficients

Standard Error:	270000
Relative Standard Error:	6.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.04048	1.25	96313.0	0.8096	Y
2	IC 200-168873/3	0.1	0.094247	1.25	87576.0	0.942467	Y
3	IC 200-168873/4	0.5	0.405209	1.25	85934.0	0.810418	Y
4	ICIS 200-168873/5	1.0	0.84817	1.25	91102.0	0.84817	Y
5	IC 200-168873/6	2.5	1.992461	1.25	98283.0	0.796984	Y
6	IC 200-168873/7	10.0	8.754993	1.25	82615.0	0.875499	Y



Calibration / 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

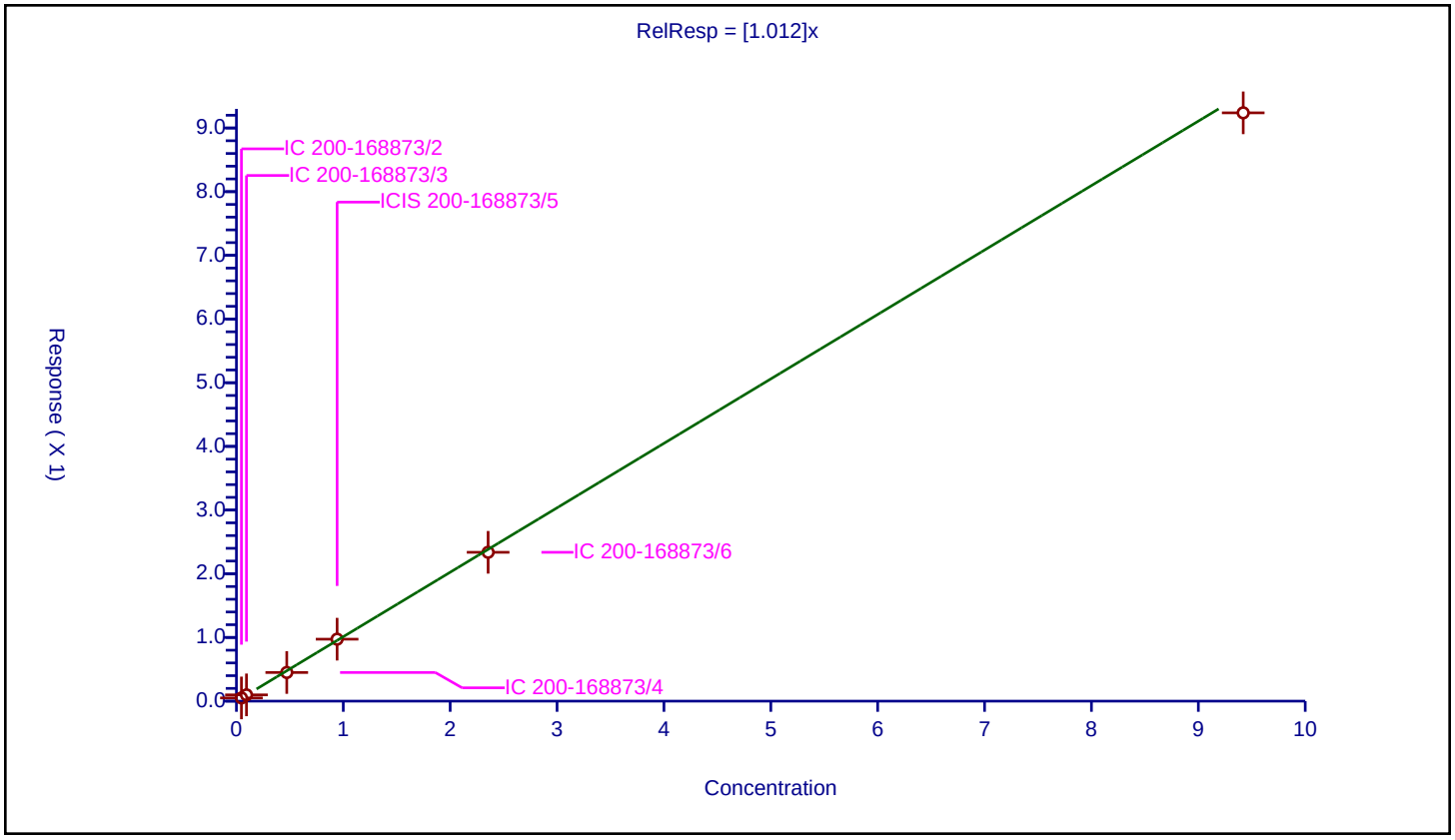
Curve Coefficients

Intercept:	0
Slope:	1.012

Error Coefficients

Standard Error:	2480000
Relative Standard Error:	4.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0471	0.050199	1.195	712637.0	1.065792	Y
2	IC 200-168873/3	0.0942	0.098421	1.195	661239.0	1.044807	Y
3	IC 200-168873/4	0.471	0.449884	1.195	686404.0	0.955168	Y
4	ICIS 200-168873/5	0.942	0.972997	1.195	739646.0	1.032905	Y
5	IC 200-168873/6	2.355	2.337346	1.195	741138.0	0.992504	Y
6	IC 200-168873/7	9.42	9.237893	1.195	686805.0	0.980668	Y



Calibration / Perfluorododecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

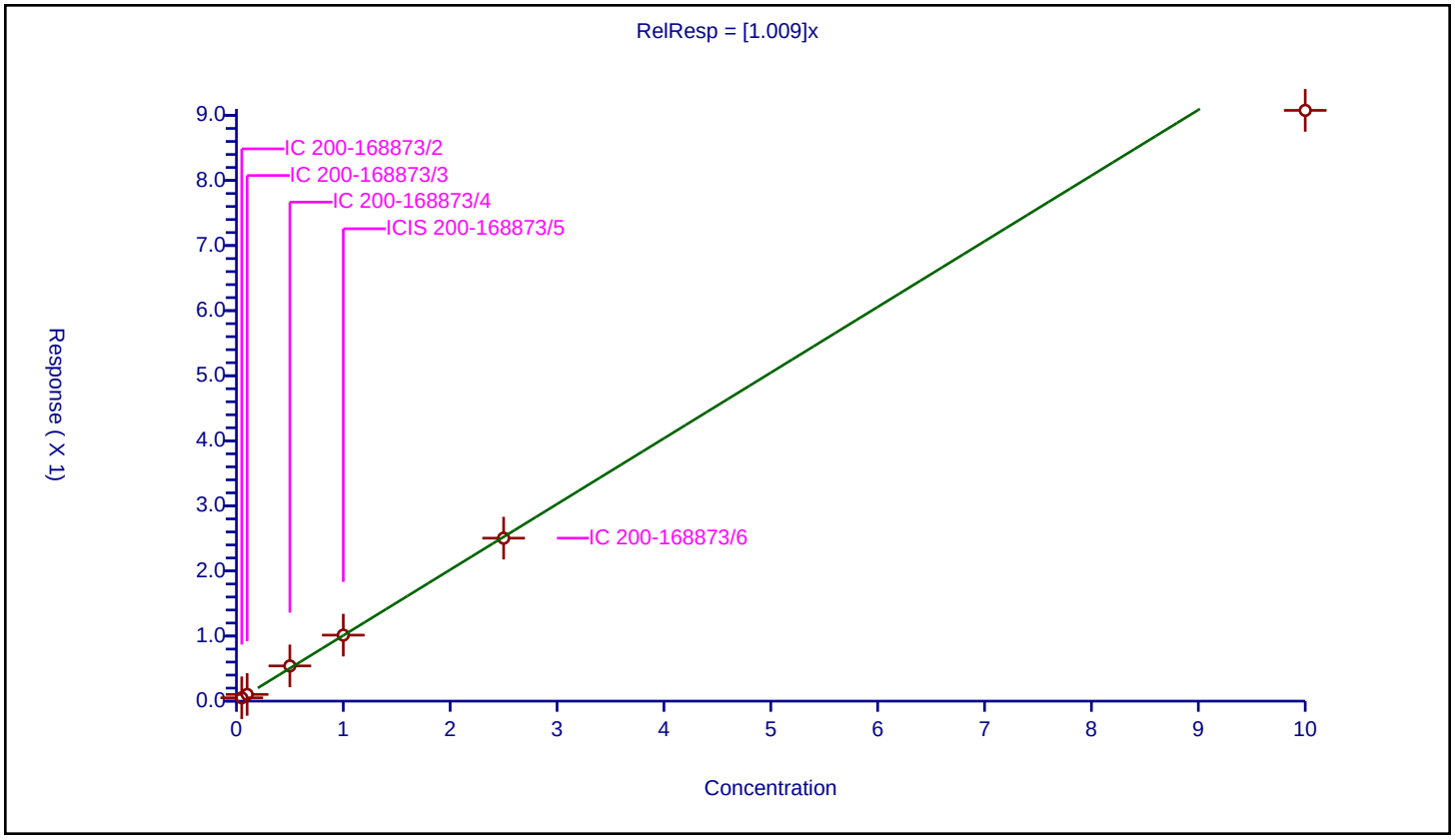
Curve Coefficients

Intercept:	0
Slope:	1.009

Error Coefficients

Standard Error:	3370000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.050804	1.25	1025132.0	1.016089	Y
2	IC 200-168873/3	0.1	0.103395	1.25	884777.0	1.033947	Y
3	IC 200-168873/4	0.5	0.541388	1.25	898805.0	1.082777	Y
4	ICIS 200-168873/5	1.0	1.01424	1.25	1006236.0	1.01424	Y
5	IC 200-168873/6	2.5	2.504461	1.25	985706.0	1.001785	Y
6	IC 200-168873/7	10.0	9.077319	1.25	994501.0	0.907732	Y



Calibration / 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

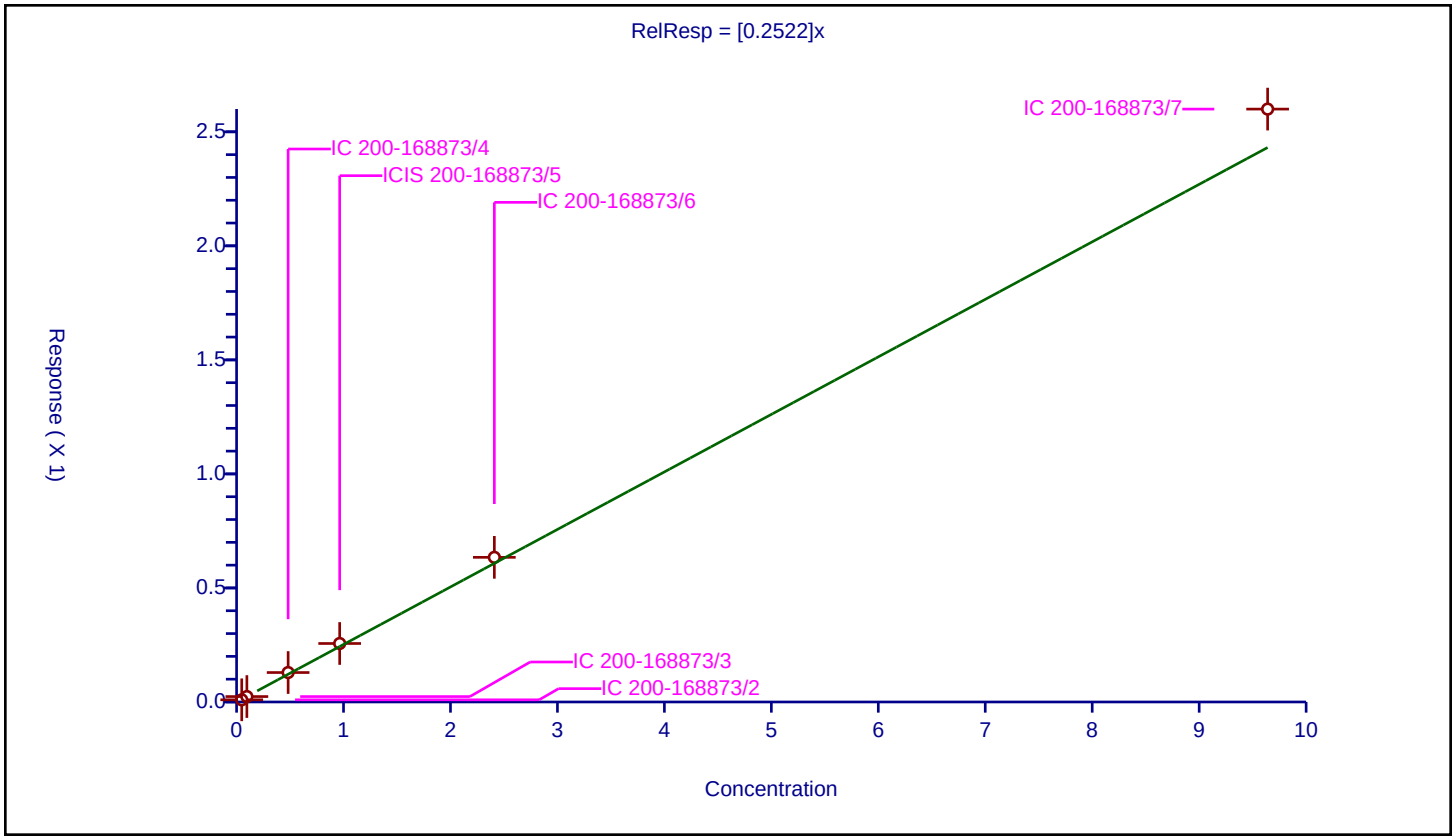
Curve Coefficients

Intercept:	0
Slope:	0.2522

Error Coefficients

Standard Error:	155000
Relative Standard Error:	10.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0482	0.009583	1.1975	164067.0	0.198825	Y
2	IC 200-168873/3	0.0964	0.023847	1.1975	150847.0	0.247378	Y
3	IC 200-168873/4	0.482	0.129186	1.1975	162319.0	0.268022	Y
4	ICIS 200-168873/5	0.964	0.256491	1.1975	157618.0	0.26607	Y
5	IC 200-168873/6	2.41	0.634308	1.1975	170914.0	0.263198	Y
6	IC 200-168873/7	9.64	2.5996	1.1975	153059.0	0.269668	Y



Calibration / Perfluorododecanesulfonic acid (PFDoS)

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

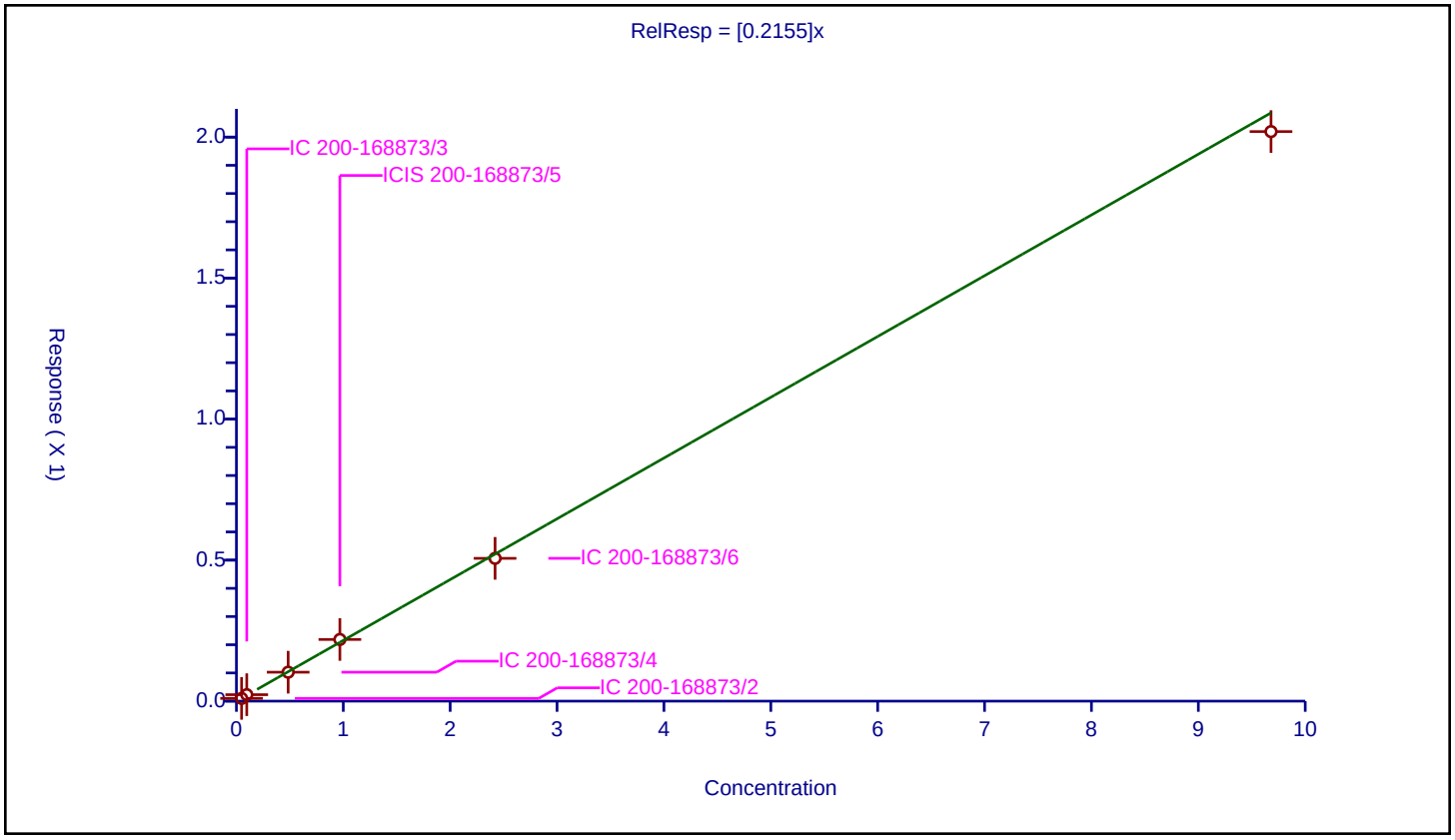
Curve Coefficients

Intercept:	0
Slope:	0.2155

Error Coefficients

Standard Error:	542000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.0484	0.009734	1.195	712637.0	0.201121	Y
2	IC 200-168873/3	0.0968	0.022858	1.195	661239.0	0.236133	Y
3	IC 200-168873/4	0.484	0.102582	1.195	686404.0	0.211947	Y
4	ICIS 200-168873/5	0.968	0.218638	1.195	739646.0	0.225865	Y
5	IC 200-168873/6	2.42	0.506374	1.195	741138.0	0.209246	Y
6	IC 200-168873/7	9.68	2.019507	1.195	686805.0	0.208627	Y



Calibration / Perfluorotridecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

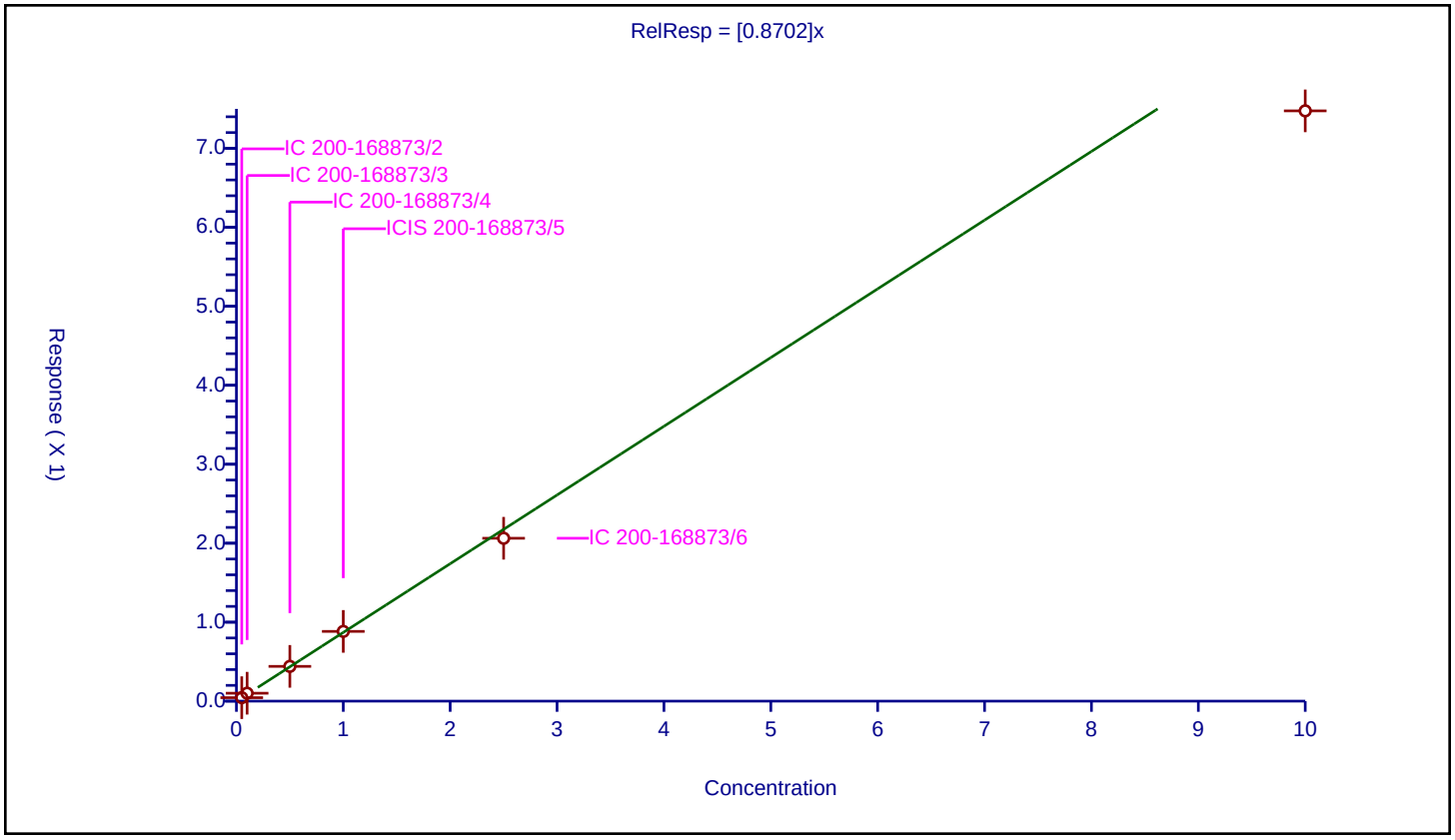
Curve Coefficients

Intercept:	0
Slope:	0.8702

Error Coefficients

Standard Error:	2780000
Relative Standard Error:	9.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.044097	1.25	1025132.0	0.881935	Y
2	IC 200-168873/3	0.1	0.100271	1.25	884777.0	1.00271	Y
3	IC 200-168873/4	0.5	0.440325	1.25	898805.0	0.88065	Y
4	ICIS 200-168873/5	1.0	0.883027	1.25	1006236.0	0.883027	Y
5	IC 200-168873/6	2.5	2.062816	1.25	985706.0	0.825126	Y
6	IC 200-168873/7	10.0	7.475068	1.25	994501.0	0.747507	Y



Calibration / Perfluorotetradecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

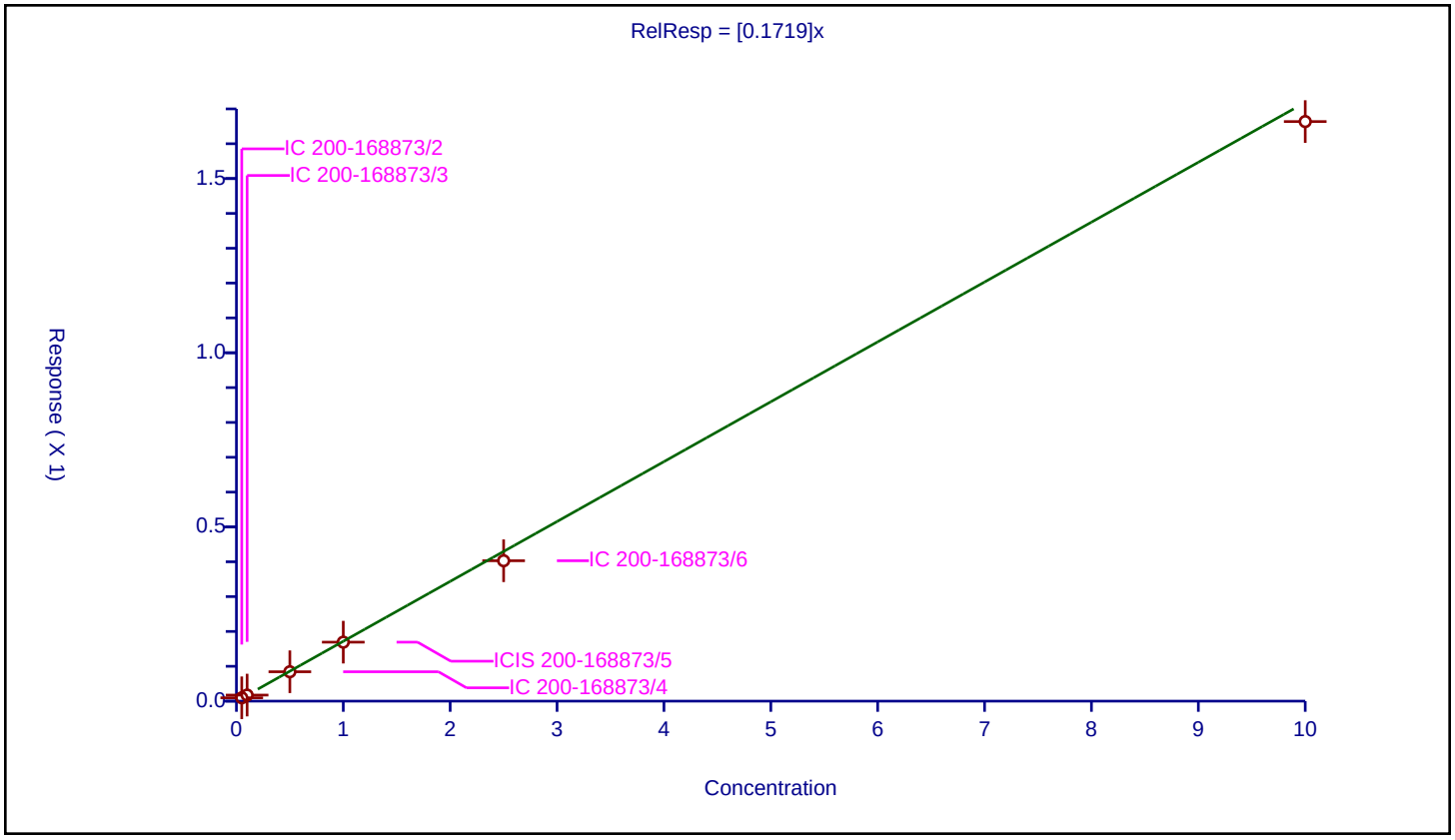
Curve Coefficients

Intercept:	0
Slope:	0.1719

Error Coefficients

Standard Error:	456000
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.009577	1.25	762112.0	0.19154	Y
2	IC 200-168873/3	0.1	0.017406	1.25	714829.0	0.174063	Y
3	IC 200-168873/4	0.5	0.084327	1.25	737942.0	0.168655	Y
4	ICIS 200-168873/5	1.0	0.169334	1.25	800497.0	0.169334	Y
5	IC 200-168873/6	2.5	0.402988	1.25	793550.0	0.161195	Y
6	IC 200-168873/7	10.0	1.663628	1.25	736976.0	0.166363	Y



Calibration / Perfluorohexadecanoic acid

Curve Type:	Linear
Weighting:	Conc_Sq
Origin:	None
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

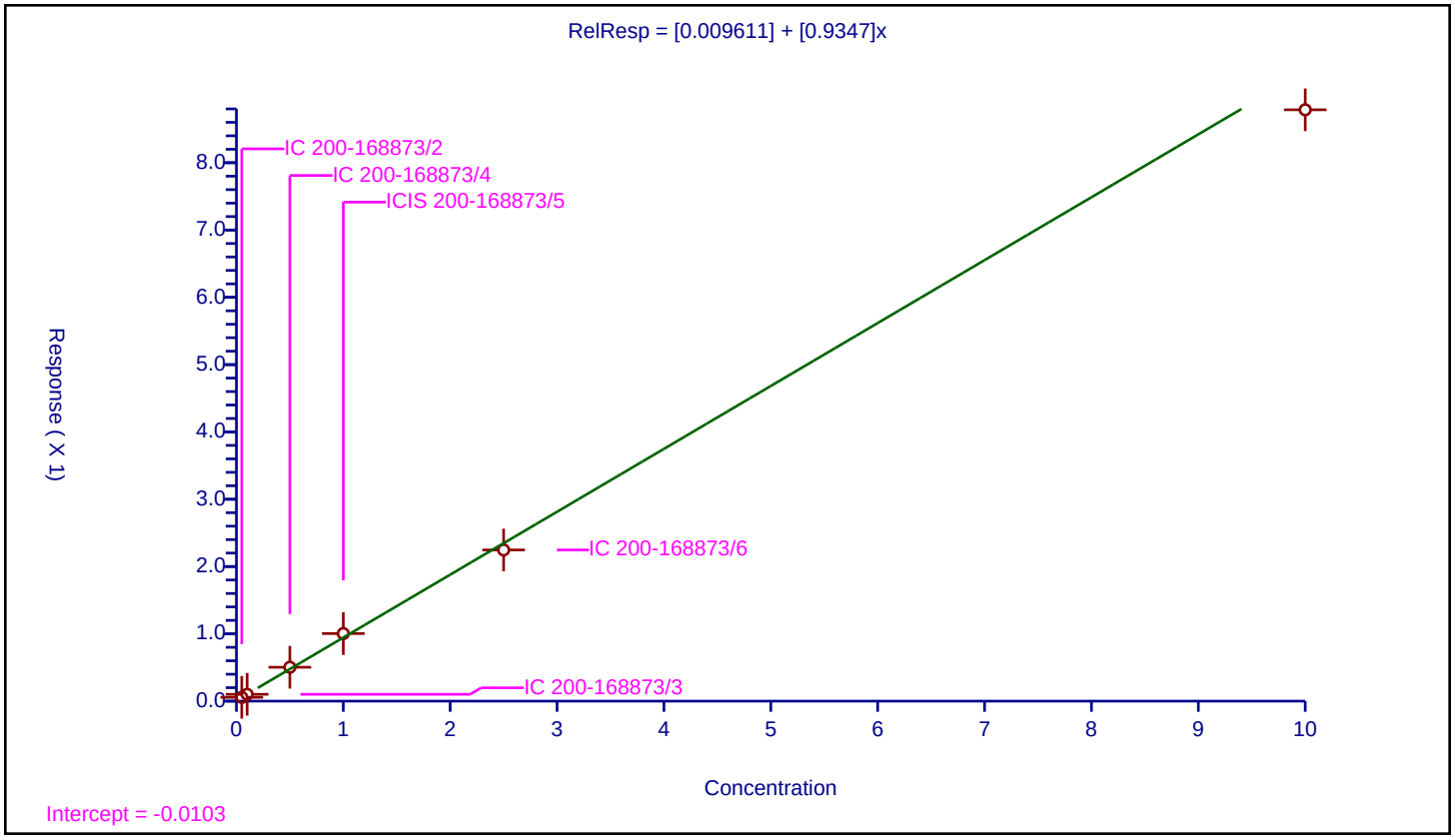
Curve Coefficients

Intercept:	0.009611
Slope:	0.9347

Error Coefficients

Standard Error:	2900000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.056426	1.25	762281.0	1.128521	Y
2	IC 200-168873/3	0.1	0.101313	1.25	750052.0	1.01313	Y
3	IC 200-168873/4	0.5	0.503396	1.25	714756.0	1.006791	Y
4	ICIS 200-168873/5	1.0	1.004312	1.25	785615.0	1.004312	Y
5	IC 200-168873/6	2.5	2.24656	1.25	818537.0	0.898624	Y
6	IC 200-168873/7	10.0	8.786721	1.25	790763.0	0.878672	Y



Calibration / Perfluorooctadecanoic acid

Curve Type:	Average
Weighting:	Conc_Sq
Origin:	Force
Dependency:	Response
Calib Mode:	IsoDil
Response Base:	AREA
RF Rounding:	0

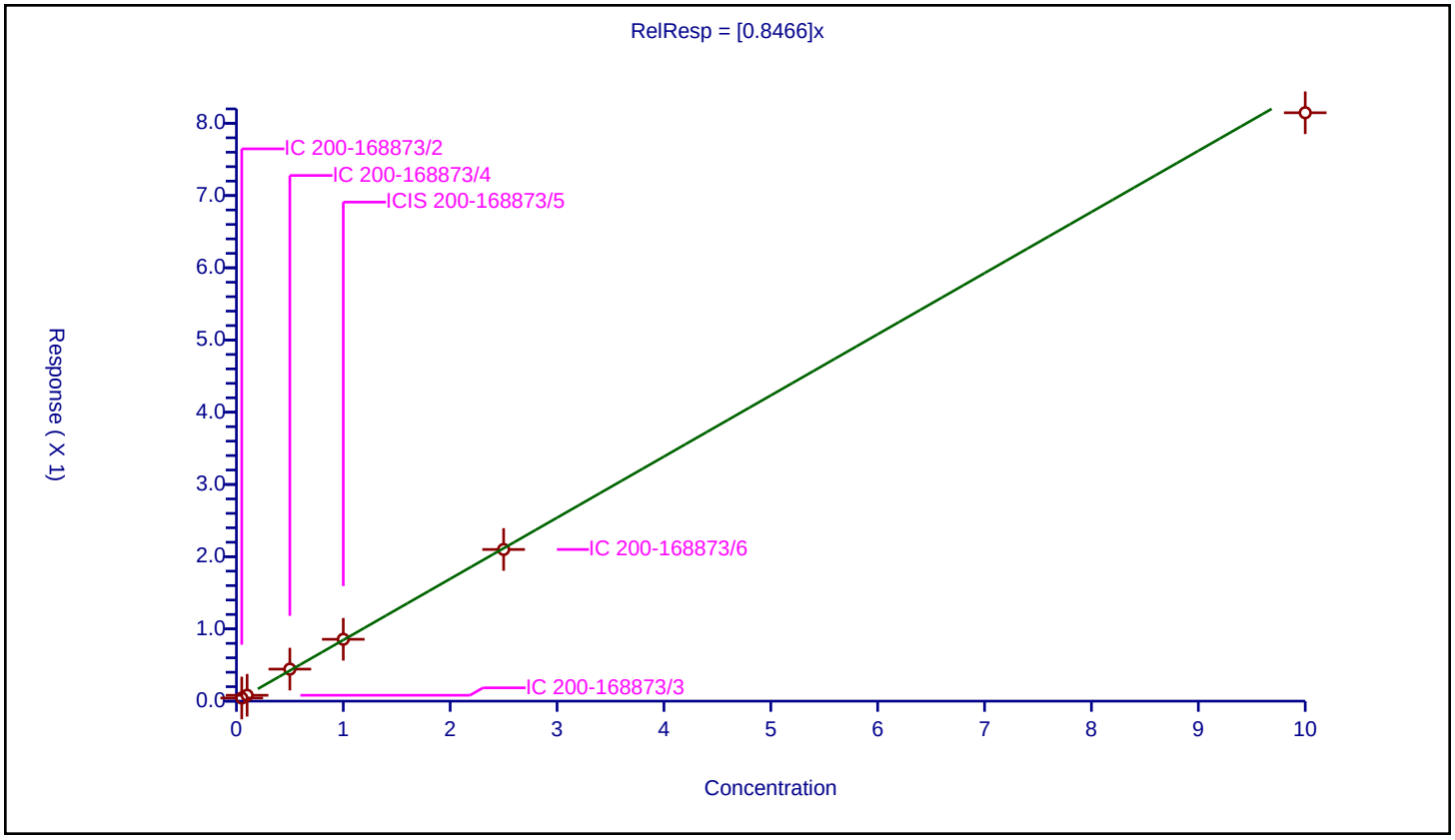
Curve Coefficients

Intercept:	0
Slope:	0.8466

Error Coefficients

Standard Error:	2400000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-168873/2	0.05	0.04337	1.25	762281.0	0.867397	Y
2	IC 200-168873/3	0.1	0.081364	1.25	750052.0	0.813644	Y
3	IC 200-168873/4	0.5	0.443567	1.25	714756.0	0.887135	Y
4	ICIS 200-168873/5	1.0	0.85659	1.25	785615.0	0.85659	Y
5	IC 200-168873/6	2.5	2.100099	1.25	818537.0	0.84004	Y
6	IC 200-168873/7	10.0	8.146627	1.25	790763.0	0.814663	Y



FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICV 200-168873/9 Calibration Date: 07/08/2021 16:16

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210708ICAL09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9638	0.9741		1.01	1.00	1.1	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.035	1.078		1.05	1.01	4.1	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.080	1.149		1.06	1.00	6.3	40.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.928	1.770		0.918	1.00	-8.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.006	1.036		1.04	1.01	3.0	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.229	1.243		1.01	1.00	1.1	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.654	1.796		1.10	1.01	8.6	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.157	1.120		0.977	1.01	-3.2	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	1.010		0.976	1.00	-2.4	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.522	3.873		1.10	1.00	10.0	50.0
6:2 FTS	AveID	1.036	1.095		1.06	1.00	5.7	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.245	1.318		1.06	1.00	5.8	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.052	0.9905		0.941	1.00	-5.9	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.121	0.9669		0.871	1.01	-13.7	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9669	1.180		1.22	1.00	22.1	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.225	1.230		1.00	1.00	0.3	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8298	0.8236		1.00	1.01	-0.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.064	1.084		1.02	1.00	1.8	40.0
8:2 FTS	AveID	0.4982	0.5314		1.08	1.01	6.7	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9781	0.9822		1.00	1.00	0.4	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8313	0.7897		0.950	1.00	-5.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6334	0.6908		1.10	1.01	9.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9674	0.9794		1.01	1.00	1.2	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8472	0.8966		1.06	1.00	5.8	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	1.012	1.047		1.03	1.00	3.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.009	0.9762		0.967	1.00	-3.3	40.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.2522	0.2640		1.01	0.964	4.7	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2155	0.2130		0.957	0.968	-1.1	50.0

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICV 200-168873/9 Calibration Date: 07/08/2021 16:16

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210708ICAL09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8702	0.7612		0.875	1.00	-12.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1719	0.1728		1.01	1.00	0.5	40.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9130		0.967	1.00	-3.3	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8466	0.7843		0.926	1.00	-7.4	50.0
13C4 PFBA	Ave	1.144	1.185		1.29	1.25	3.5	50.0
13C5 PFPeA	Ave	0.8660	0.8914		1.29	1.25	2.9	50.0
13C3 PFBS	Ave	0.9175	0.9029		1.14	1.16	-1.6	50.0
M2-4:2 FTS	Ave	0.0758	0.0827		1.27	1.17	9.1	50.0
13C2 PFHxA	Ave	0.9540	0.9925		1.30	1.25	4.0	50.0
13C3 HFPO-DA	Ave	0.1030	0.1026		1.24	1.25	-0.5	50.0
18O2 PFHxS	Ave	0.7289	0.7621		1.24	1.18	4.6	50.0
13C4 PFHpA	Ave	0.9564	0.9807		1.28	1.25	2.5	50.0
M2-6:2 FTS	Ave	0.1011	0.1016		1.19	1.19	0.5	50.0
13C4 PFOA	Ave	0.9874	1.062		1.34	1.25	7.5	50.0
13C4 PFOS	Ave	0.5319	0.5263		1.18	1.20	-1.1	50.0
13C5 PFNA	Ave	0.9379	0.9026		1.20	1.25	-3.8	50.0
13C2 PFDA	Ave	0.8507	0.9121		1.34	1.25	7.2	50.0
M2-8:2 FTS	Ave	0.1204	0.1282		1.28	1.20	6.5	50.0
13C8 FOSA	Ave	0.9381	0.9422		1.26	1.25	0.4	50.0
d3-NMeFOSAA	Ave	0.0626	0.0697		1.39	1.25	11.4	50.0
13C2 PFUnA	Ave	0.6747	0.7023		1.30	1.25	4.1	50.0
d5-NEtFOSAA	Ave	0.0651	0.0662		1.27	1.25	1.6	50.0
13C2 PFDoA	Ave	0.6975	0.7127		1.28	1.25	2.2	50.0
13C2 PFTeDA	Ave	0.5468	0.5638		1.29	1.25	3.1	50.0
13C2 PFHxDA	Ave	0.5565	0.5789		1.30	1.25	4.0	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL09.d
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 08-Jul-2021 16:16:57 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 200-0046726-009 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 08-Jul-2021 16:42:04 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1667

First Level Reviewer: chirgwinb Date: 08-Jul-2021 16:41:50
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	2.108	2.109	-0.001	0.602	1840100	1.29		104	9113	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.108	2.109	-0.001	1.000	1433986	1.01			248	
D 3 13C5 PFPeA										
267.90 > 223.00	2.426	2.439	-0.013	0.693	1384592	1.29		103	4022	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.439	2.439	0.0	1.005	1205826	1.05			161	
D 47 13C3 PFBS										
301.90 > 80.00	2.452	2.452	0.0	0.700	1304373	1.14		98.4	475706	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.452	2.452	0.0	1.000	1288868	1.06	Target=2.20		3518	
298.90 > 99.00	2.452	2.452	0.0	1.000	565902		2.28(1.10-3.30)		414	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.746	2.758	-0.012	1.000	181849	0.9179			1974	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.746	2.758	-0.012	0.784	119949	1.27		109	216	
D 7 13C2 PFHxA										
315.00 > 270.00	2.782	2.795	-0.013	0.795	1541730	1.30		104	4381	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.782	2.795	-0.013	1.000	1291053	1.04	Target=12.93		369	
313.00 > 119.00	2.782	2.795	-0.013	1.000	102935		12.54(6.46-19.39)		334	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.794	2.795	-0.001	0.889	1177224	1.01	Target=3.71		3868	
349.00 > 99.00	2.794	2.795	-0.001	0.889	331616		3.55(1.85-5.56)		525	
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.892	2.902	-0.010	1.000	231191	1.10			87.2	

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	2.892	2.902	-0.010	0.826	159314	1.24		99.5	1343	
D 11 18O2 PFHxS										
403.00 > 84.00	3.143	3.154	-0.011	0.898	1119950	1.24		105	2037	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.143	3.154	-0.011	1.000	1070913	0.9772	Target=4.48		2131	
399.00 > 99.00	3.143	3.154	-0.011	1.000	223947		4.78(2.24-6.72)		416	
D 9 13C4 PFHpA										
367.00 > 322.00	3.153	3.154	-0.001	0.901	1523321	1.28		103	2116	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.153	3.154	-0.001	1.000	1230406	0.9764	Target=3.68		580	
363.00 > 169.00	3.153	3.154	-0.001	1.000	342842		3.59(1.84-5.53)		858	
77 DONA										
377.00 > 251.00	3.185	3.196	-0.011	0.835	2533049	1.10	Target=2.47		2848	
377.00 > 85.00	3.185	3.196	-0.011	0.835	992440		2.55(1.24-3.71)		1481	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.492	3.501	-0.009	0.916	861776	1.06	Target=6.56		2683	
449.00 > 99.00	3.492	3.501	-0.009	0.916	130015		6.63(3.28-9.84)		497	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.492	3.501	-0.009	0.997	149894	1.19		100	672	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.492	3.501	-0.009	1.000	138219	1.06			930	
D 14 13C4 PFOA										
417.00 > 372.00	3.501	3.510	-0.009	1.000	1648910	1.34		108	2814	
* 62 13C2 PFOA										
415.00 > 370.00	3.501	3.510	-0.009		1553362	1.25			4423	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.501	3.510	-0.009	1.000	1306616	0.9411	Target=2.67		548	
413.00 > 169.00	3.501	3.510	-0.009	1.000	524406		2.49(1.33-4.00)		1432	
D 18 13C4 PFOS										
503.00 > 80.00	3.814	3.814	0.0	1.089	781490	1.18		98.9	2708	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.814	3.824	-0.010	1.000	638616	0.8714	Target=6.69		593	M
499.00 > 99.00	3.814	3.824	-0.010	1.000	99365		6.43(3.34-10.03)		299	M
D 19 13C5 PFNA										
468.00 > 423.00	3.835	3.836	-0.001	1.096	1402132	1.20		96.2	6208	
20 Perfluorononanoic acid										
463.00 > 419.00	3.835	3.847	-0.012	1.000	1323852	1.22	Target=7.21		498	
463.00 > 169.00	3.835	3.847	-0.012	1.000	192337		6.88(3.60-10.81)		2193	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.973	3.983	-0.010	1.042	804227	1.00			2815	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.103	4.104	-0.001	1.076	544023	1.00	Target=3.20		2103	
549.00 > 99.00	4.103	4.104	-0.001	1.076	185287		2.94(1.60-4.80)		688	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.137	0.0	1.182	1416775	1.34		107	3384	

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	4.137	4.137	0.0	1.000	1228143	1.02	Target=8.42		997	
513.00 > 169.00	4.137	4.137	0.0	1.000	145874		8.42(4.21-12.63)		1232	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.148	4.148	0.0	1.000	85523	1.08			2073	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.148	4.148	0.0	1.185	190806	1.28		107	1183	
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.214	0.0	1.204	1463542	1.26		100	2954	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.214	4.214	0.0	1.000	1150048	1.00			1756	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.280	0.0	1.223	108235	1.39		111	279	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.280	4.280	0.0	1.000	68381	0.9500			345	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.368	4.369	-0.001	1.145	456300	1.10	Target=2.66		2584	
599.00 > 99.00	4.368	4.369	-0.001	1.145	155593		2.93(1.33-3.99)		1286	
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.402	0.0	1.257	1090922	1.30		104	3570	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.402	4.402	0.0	1.000	854723	1.01	Target=7.70		1187	
563.00 > 169.00	4.402	4.402	0.0	1.000	105829		8.08(3.85-11.56)		1001	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.413	0.0	1.261	102771	1.27		102	792	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.413	0.0	1.000	73718	1.06			463	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.492	4.492	0.0	1.178	684667	1.03			3977	
D 36 13C2 PFDoA										
615.00 > 570.00	4.632	4.633	0.0	1.323	1107061	1.28		102	3305	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.632	4.633	0.0	1.000	864551	0.9671	Target=6.31		260	
613.00 > 169.00	4.632	4.633	0.0	1.000	131216		6.59(3.15-9.46)		1423	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.653	4.643	0.010	1.122	40549	1.01			849	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.810	4.801	0.009	1.261	134867	0.9570	Target=0.45		1831	
699.00 > 99.00	4.810	4.801	0.009	1.261	307858		0.44(0.23-0.68)		1892	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.845	4.845	0.0	1.046	674130	0.8747	Target=4.61		238	
663.00 > 169.00	4.845	4.845	0.0	1.046	160469		4.20(2.31-6.92)		441	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.043	5.034	0.009	1.441	875759	1.29		103	3641	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.043	5.034	0.009	1.000	121067	1.01	Target=1.00		592	M
713.00 > 219.00	5.043	5.034	0.009	1.000	128863		0.94(0.50-1.51)		293	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.395	5.383	0.012	1.541	899282	1.30		104	2722	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.395	5.383	0.012	1.000	656849	0.9665	Target=4.32		320	
813.00 > 169.00	5.395	5.383	0.012	1.000	153422		4.28(2.16-6.48)		1591	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.729	5.701	0.028	1.062	564277	0.9265	Target=3.72		319	
913.00 > 169.00	5.729	5.701	0.028	1.062	150192		3.76(1.86-5.58)		891	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00007 Amount Added: 100.00 Units: uL

Report Date: 08-Jul-2021 16:42:05 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL09.d

Injection Date: 08-Jul-2021 16:16:57 Instrument ID: LC812

Lims ID: ICV

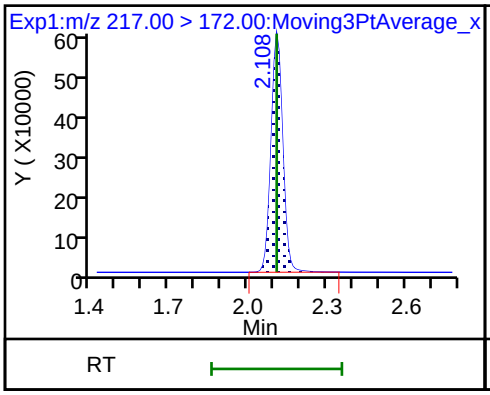
Client ID:

Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9

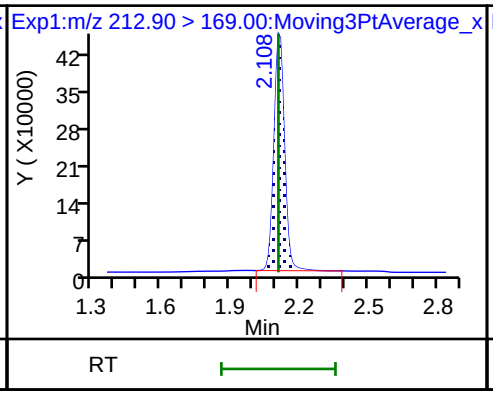
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

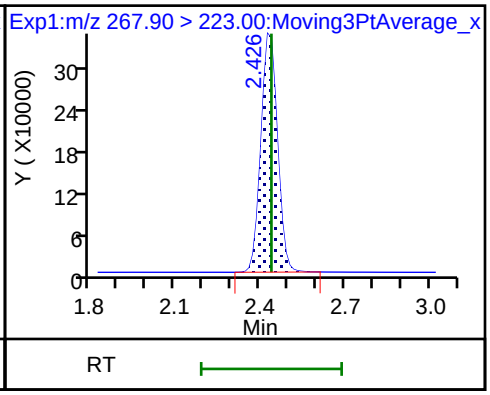
D 1 13C4 PFBA



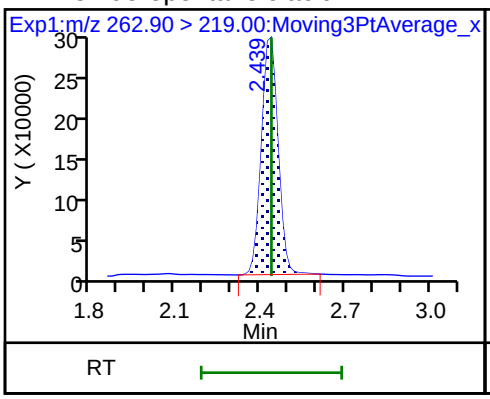
2 Perfluorobutanoic acid



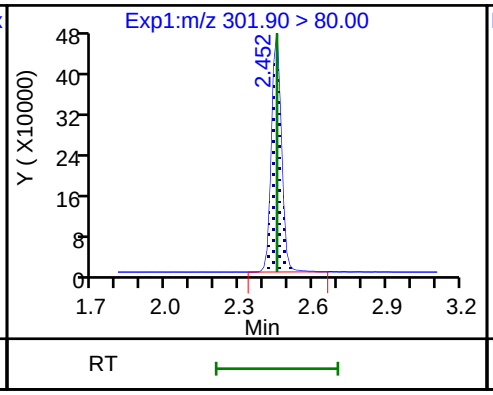
D 3 13C5 PFPeA



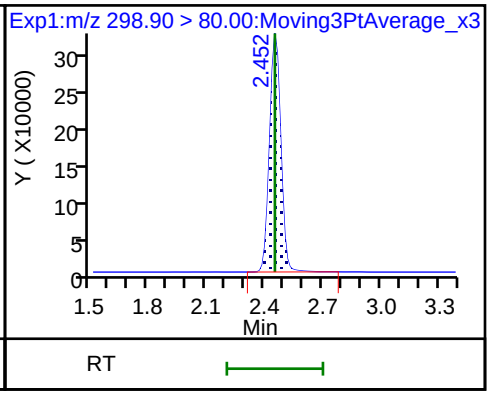
4 Perfluoropentanoic acid



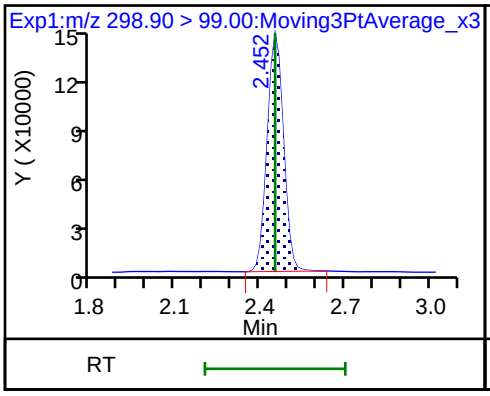
D 47 13C3 PFBS



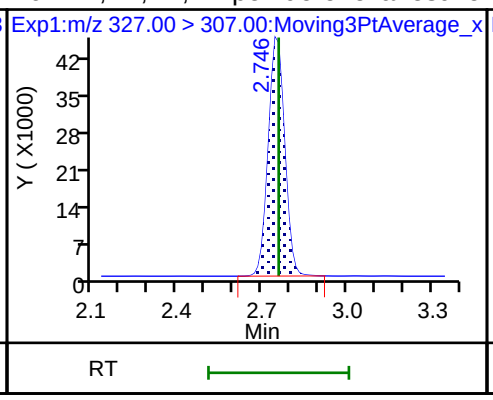
5 Perfluorobutanesulfonic acid



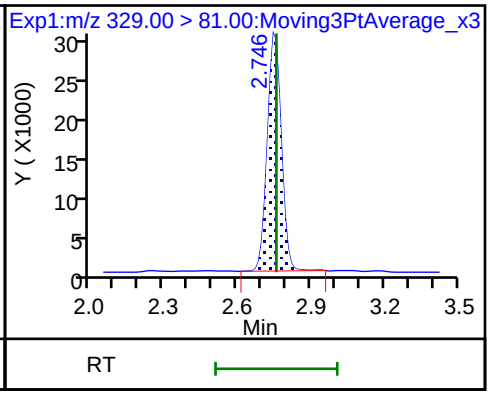
5 Perfluorobutanesulfonic acid



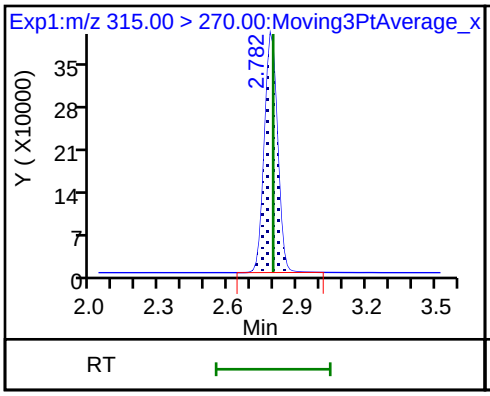
61 1H,1H,2H,2H-perfluorohexanesulfo



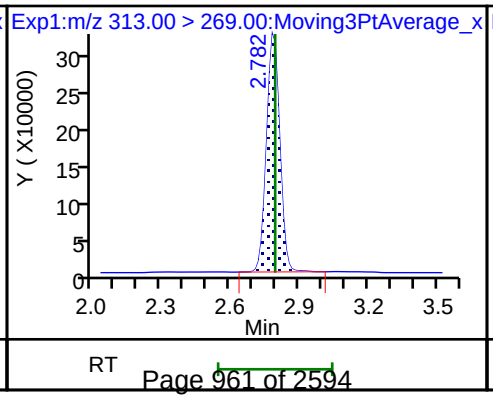
D 60 M2-4:2 FTS



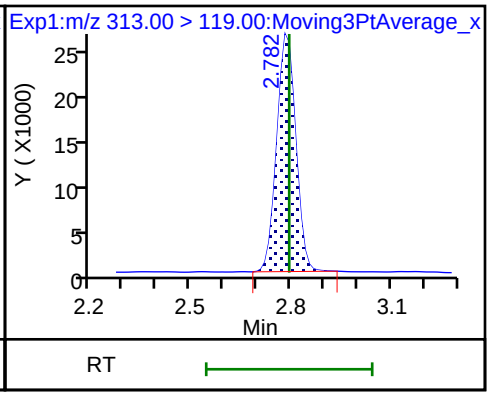
D 7 13C2 PFHxA



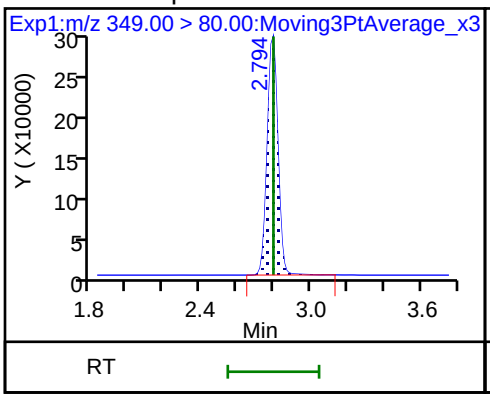
6 Perfluorohexanoic acid



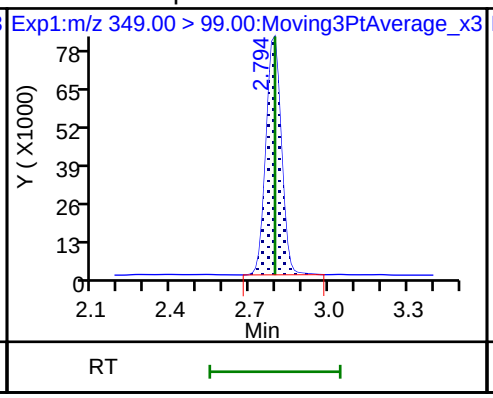
6 Perfluorohexanoic acid



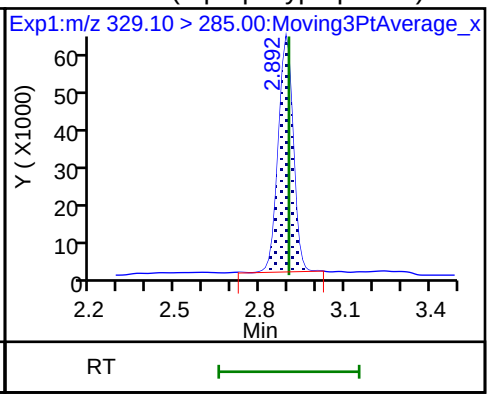
70 Perfluoropentanesulfonic acid



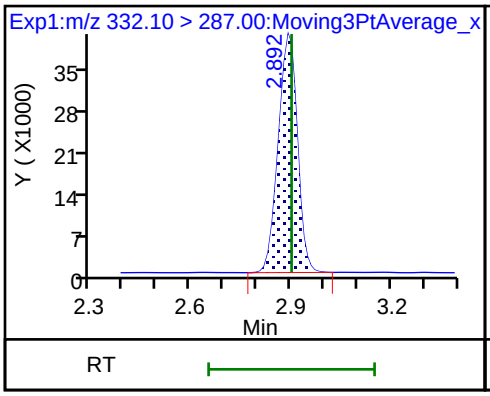
70 Perfluoropentanesulfonic acid



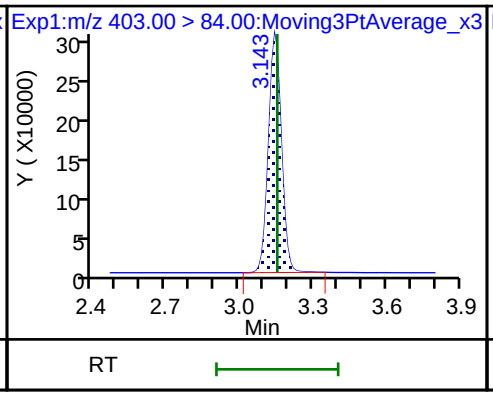
67 Perfluoro(2-propoxypropanoic) ac



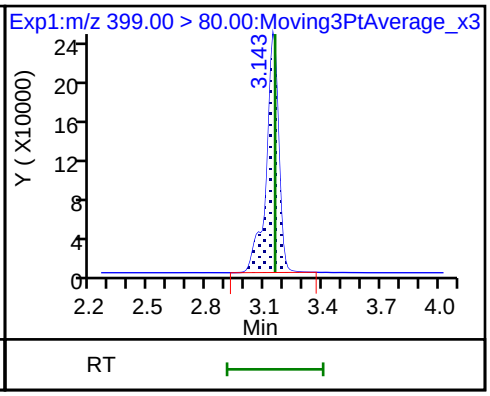
D 64 13C3 HFPO-DA



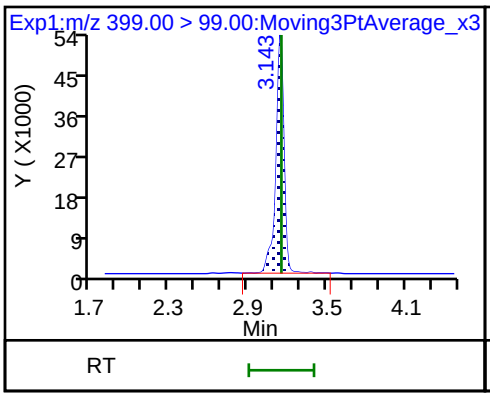
D 11 18O2 PFHxS



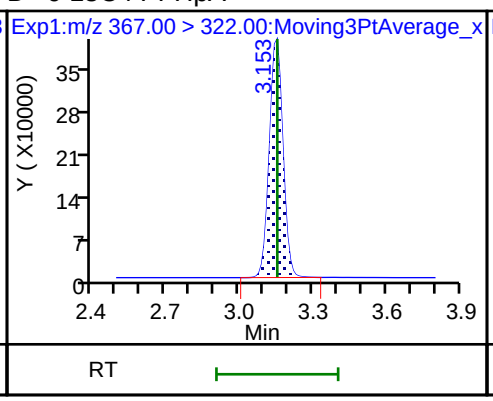
8 Perfluorohexanesulfonic acid



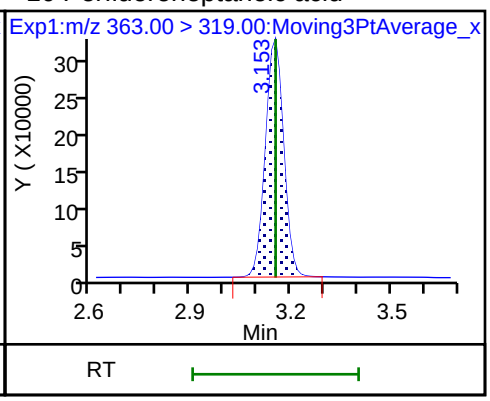
8 Perfluorohexanesulfonic acid



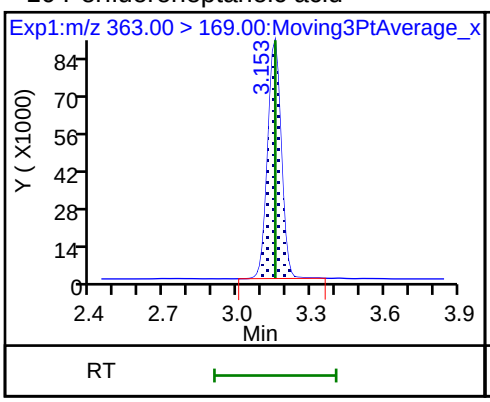
D 9 13C4 PFHpA



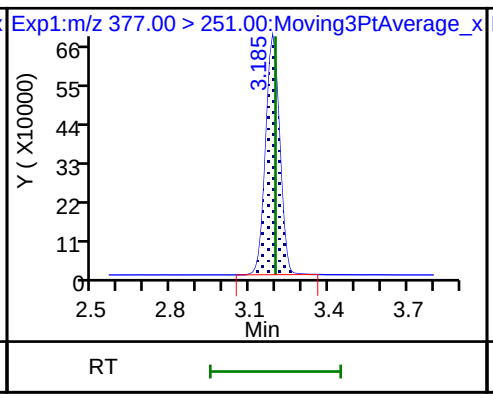
10 Perfluoroheptanoic acid



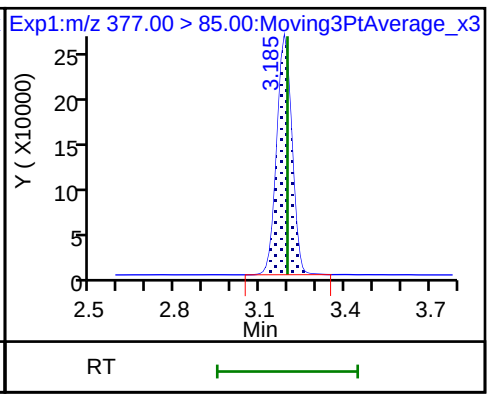
10 Perfluoroheptanoic acid



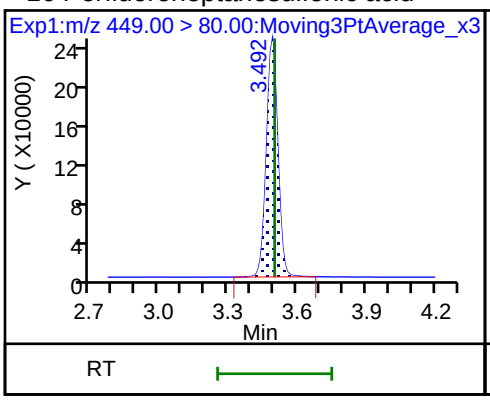
77 DONA



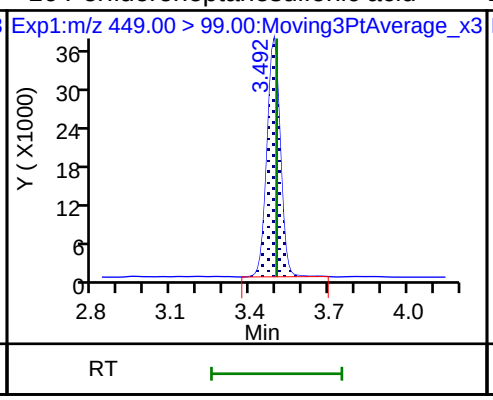
77 DONA



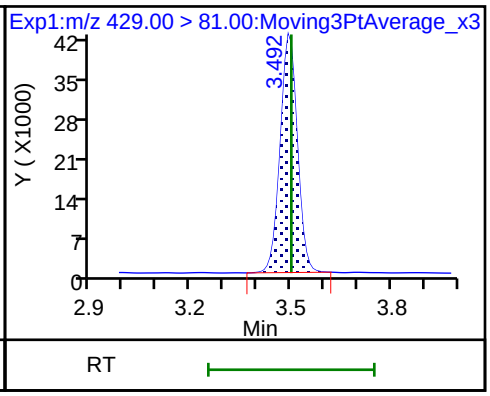
16 Perfluoroheptanesulfonic acid



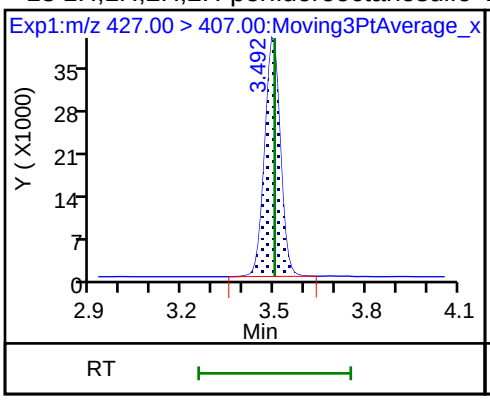
16 Perfluoroheptanesulfonic acid



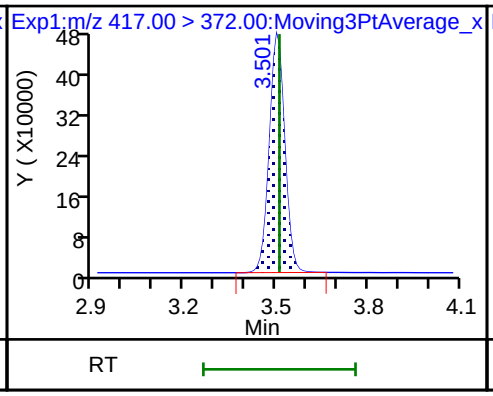
D 12 M2-6:2 FTS



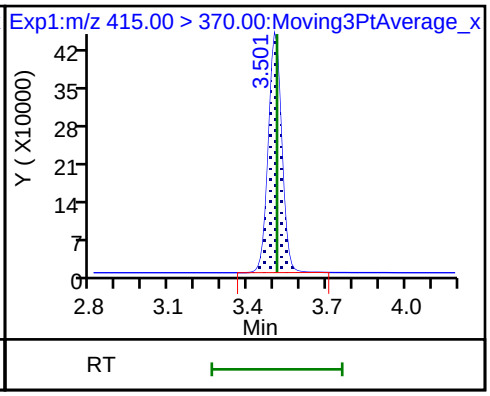
13 1H,1H,2H,2H-perfluorooctanesulfo



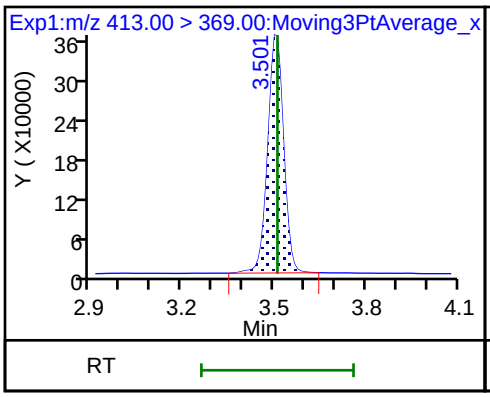
D 14 13C4 PFOA



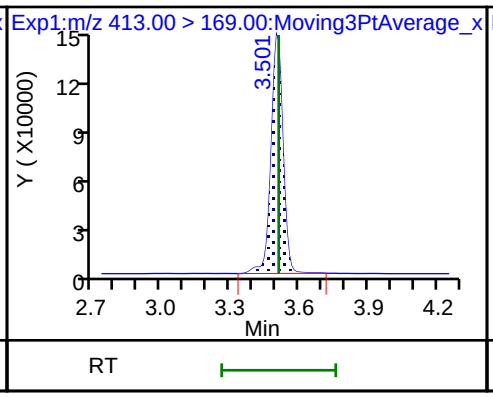
* 62 13C2 PFOA



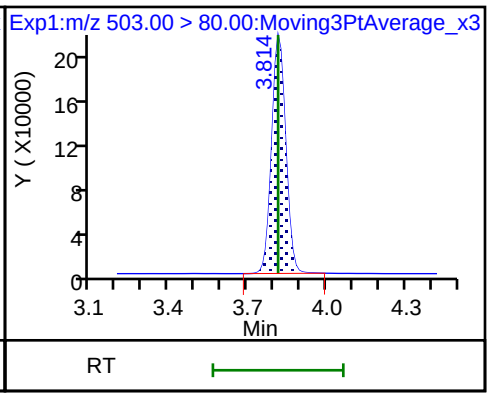
15 Perfluorooctanoic acid



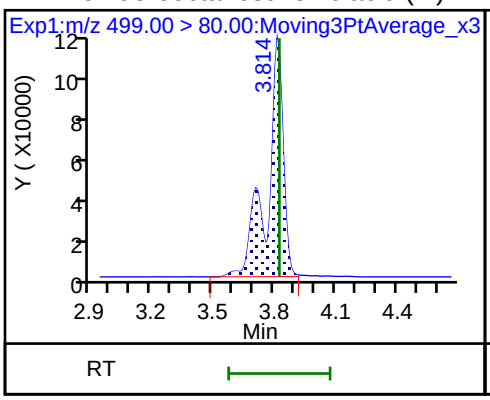
15 Perfluorooctanoic acid



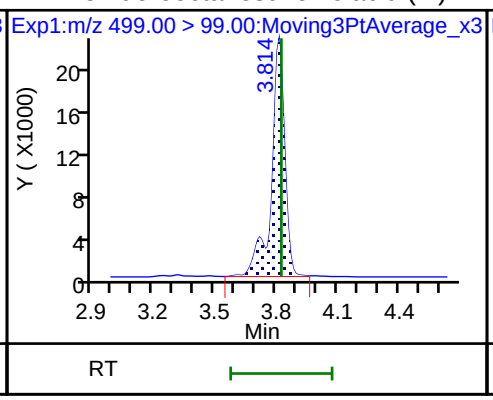
D 18 13C4 PFOS



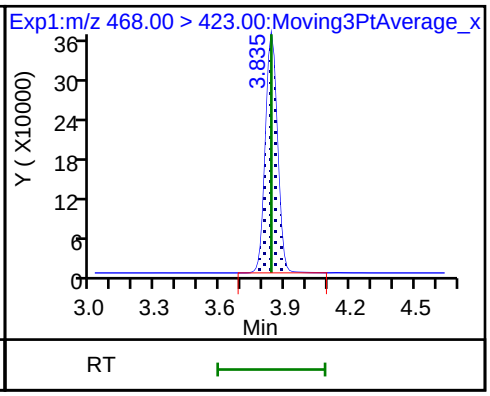
17 Perfluorooctanesulfonic acid (M)



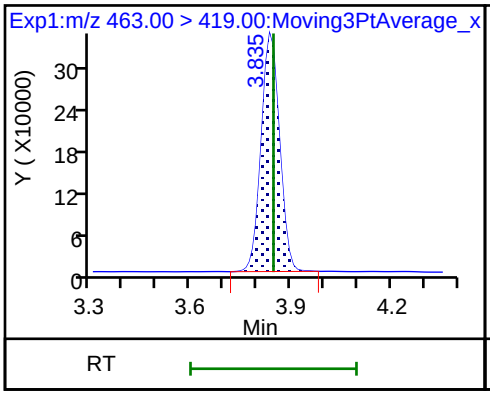
17 Perfluorooctanesulfonic acid (M)



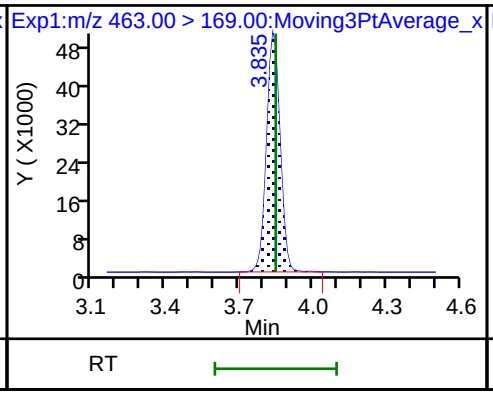
D 19 13C5 PFNA



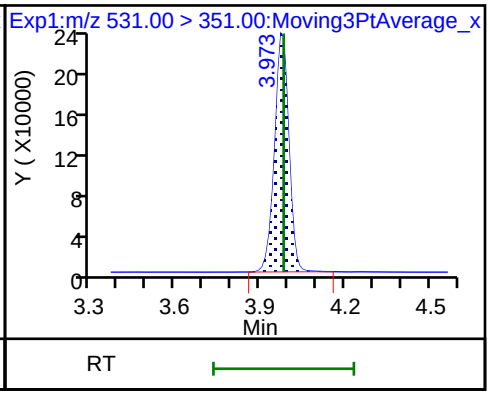
20 Perfluorononanoic acid



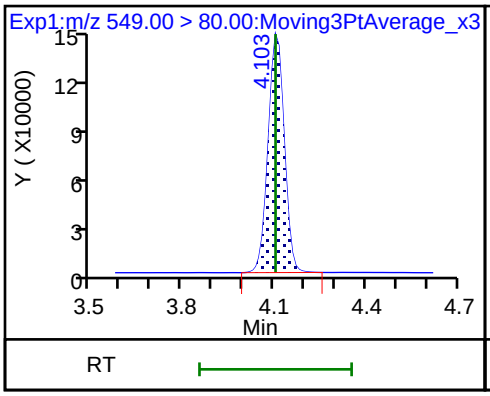
20 Perfluorononanoic acid



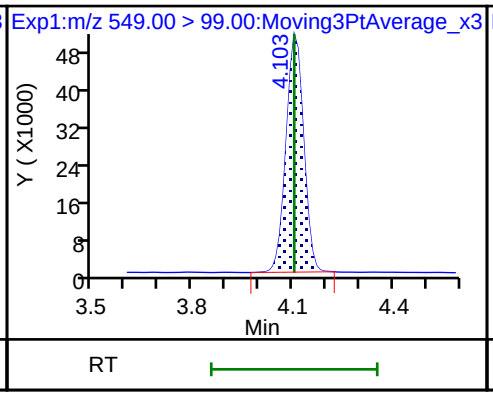
69 9-Chlorohexadecafluoro-3-oxanona



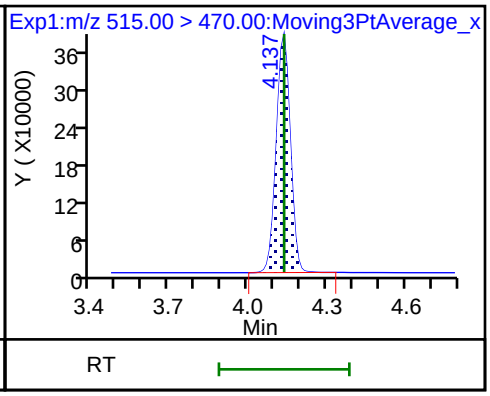
68 Perfluorononanesulfonic acid



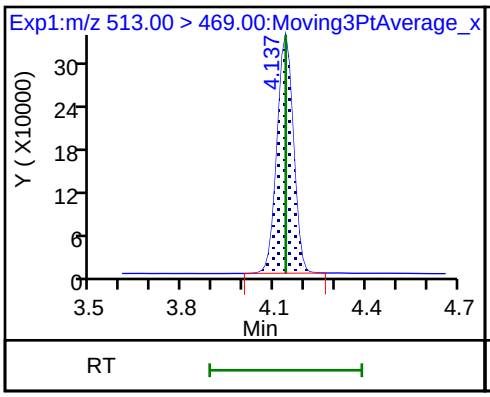
68 Perfluorononanesulfonic acid



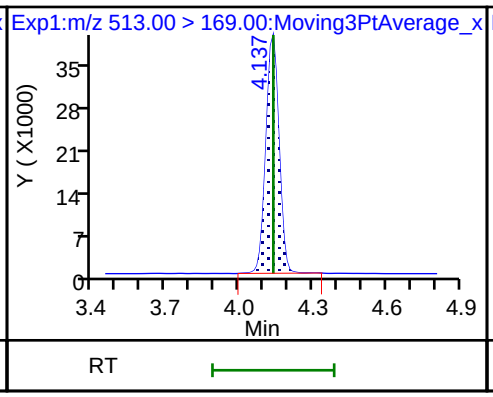
D 23 13C2 PFDA



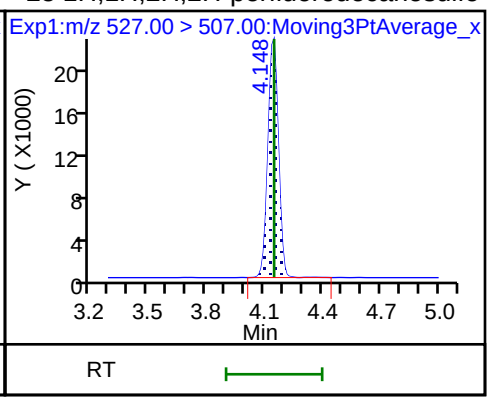
24 Perfluorodecanoic acid



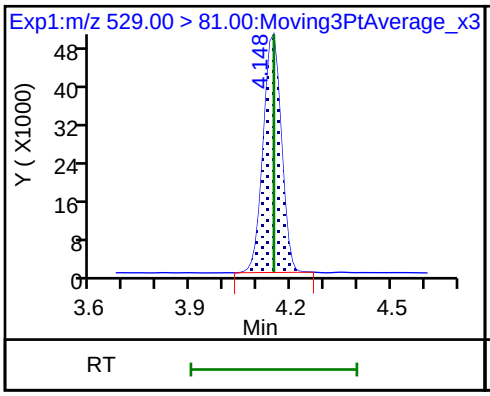
24 Perfluorodecanoic acid



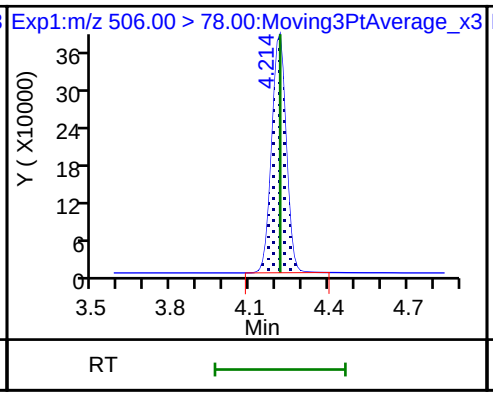
25 1H,1H,2H,2H-perfluorodecanesulfo



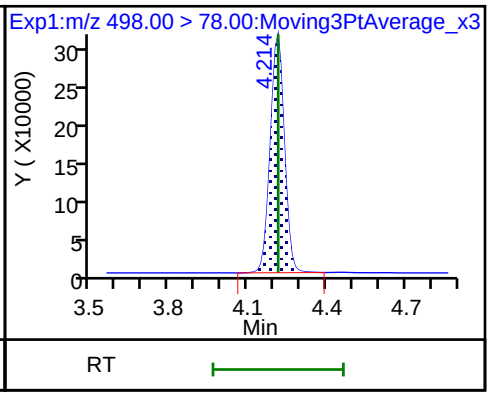
D 26 M2-8:2 FTS



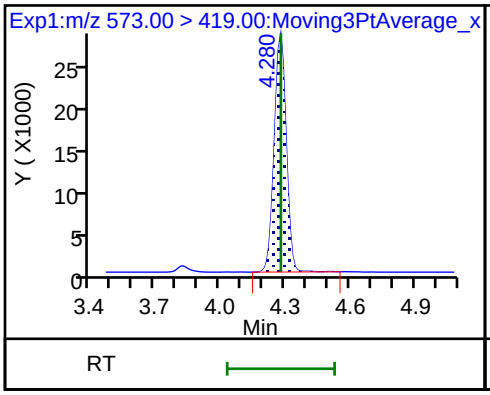
D 21 13C8 FOSA



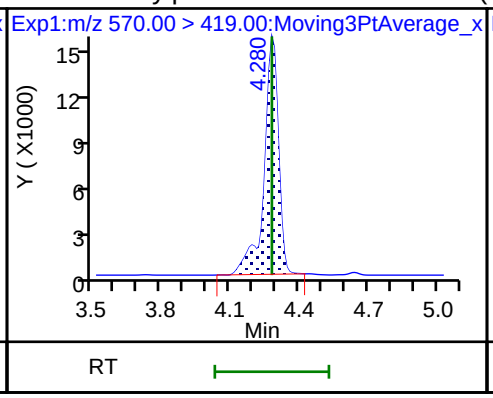
22 Perfluorooctanesulfonamide



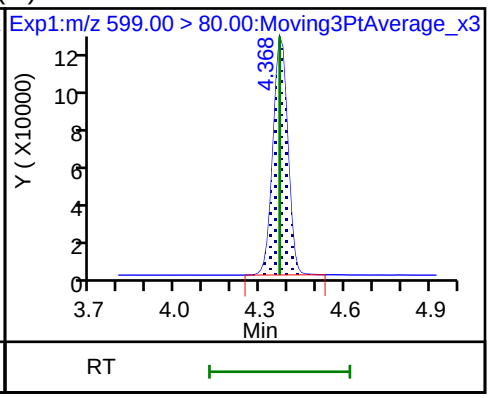
D 27 d3-NMeFOSAA



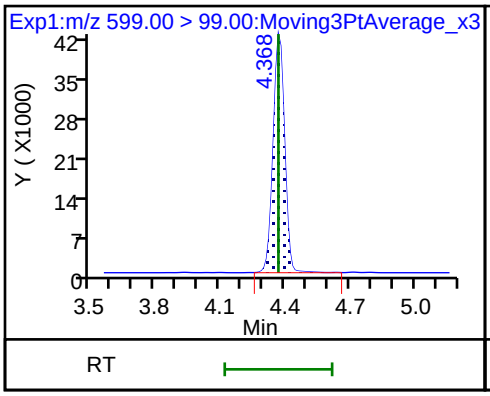
28 N-methylperfluorooctanesulfonami (M)



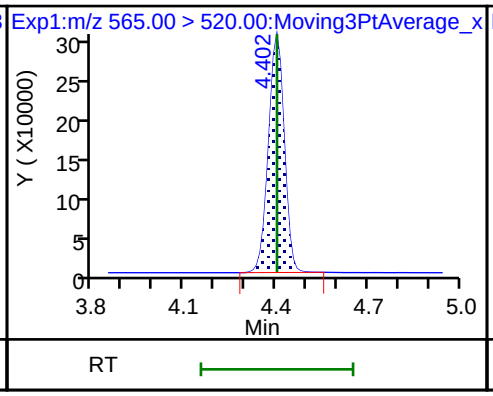
29 Perfluorodecanesulfonic acid



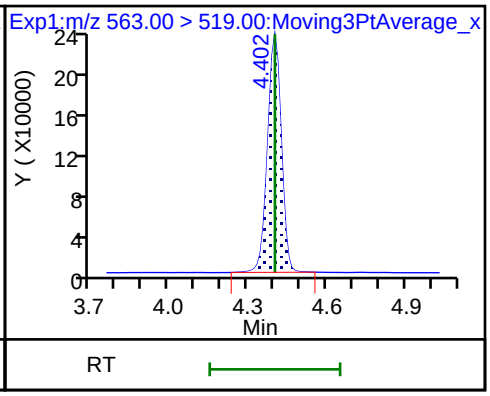
29 Perfluorodecanesulfonic acid



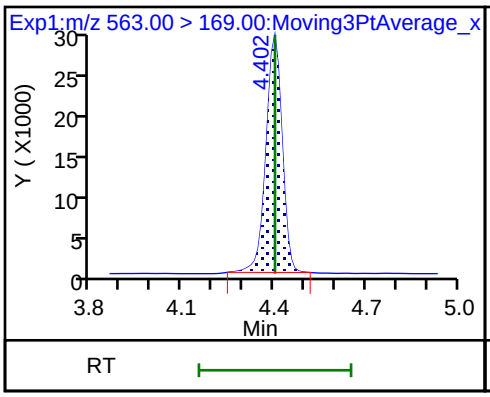
D 30 13C2 PFUnA



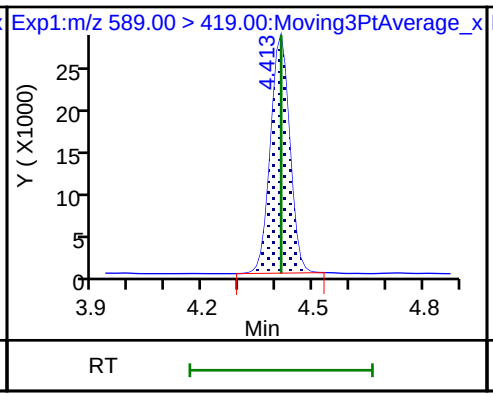
31 Perfluoroundecanoic acid



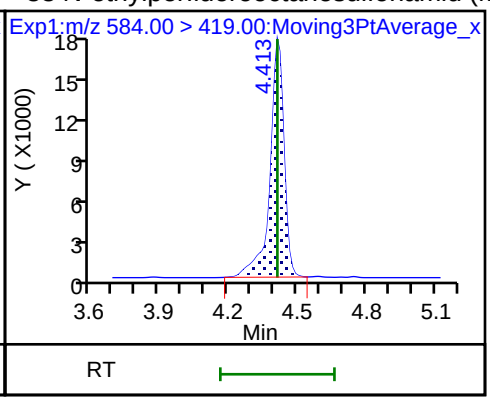
31 Perfluoroundecanoic acid



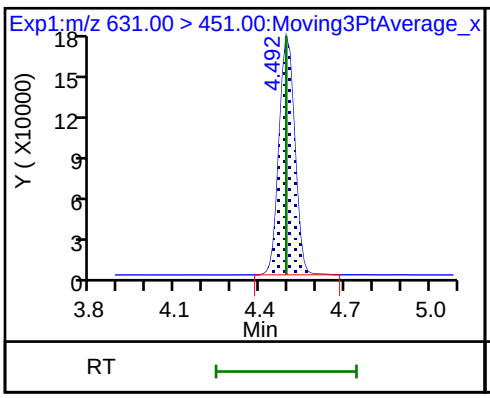
D 32 d5-NEtFOSAA



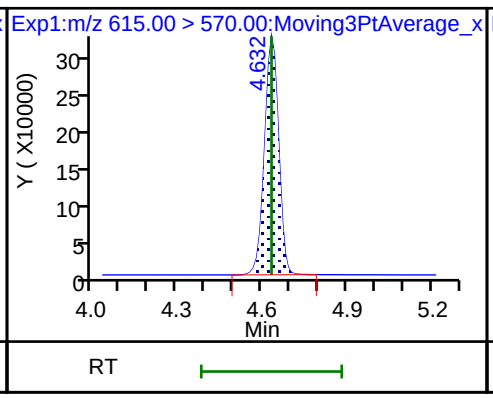
33 N-ethylperfluorooctanesulfonamid (M)



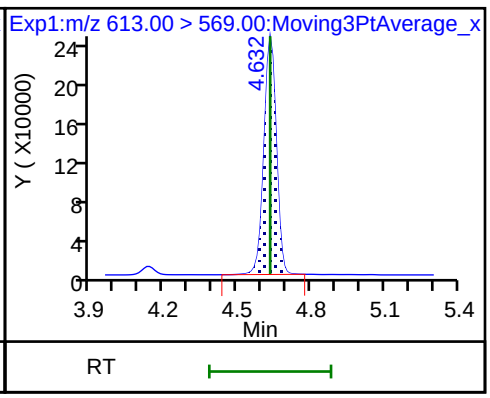
66 11-Chloroeicosafluoro-3-oxaundec



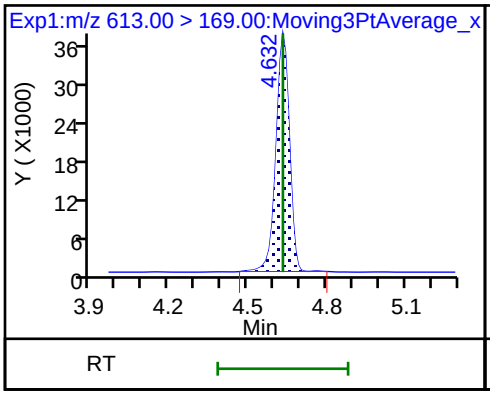
D 36 13C2 PFDoA



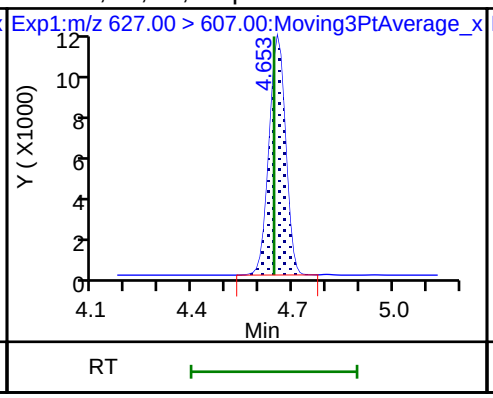
37 Perfluorododecanoic acid



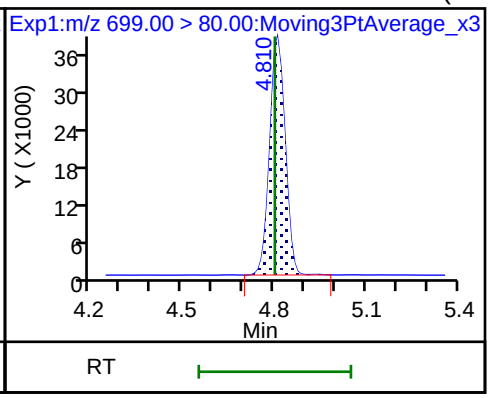
37 Perfluorododecanoic acid



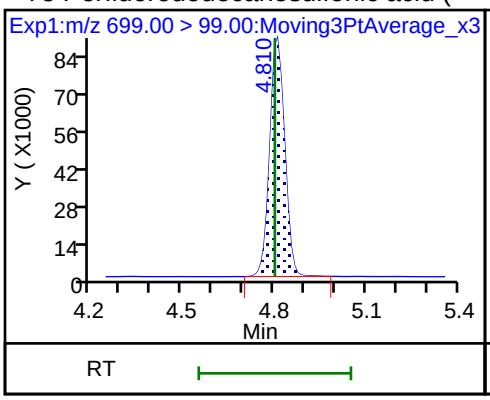
74 1H,1H,2H,2H-perfluorododecanesul



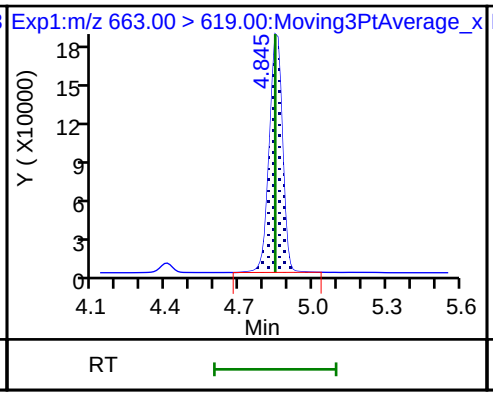
75 Perfluorododecanesulfonic acid (



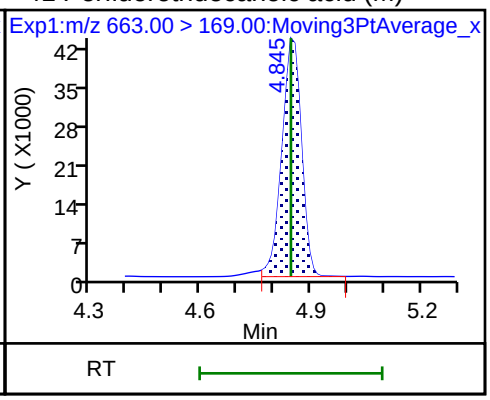
75 Perfluorododecanesulfonic acid (



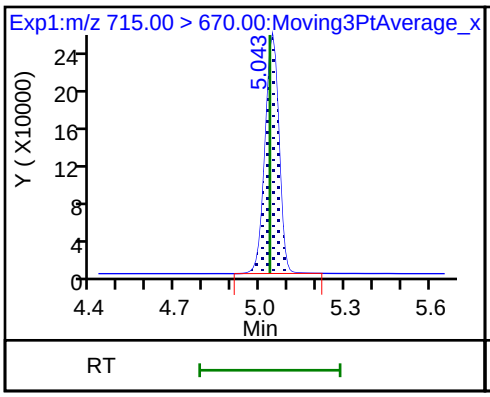
41 Perfluorotridecanoic acid



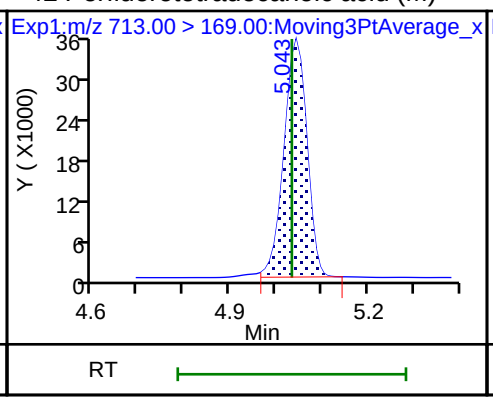
41 Perfluorotridecanoic acid (M)



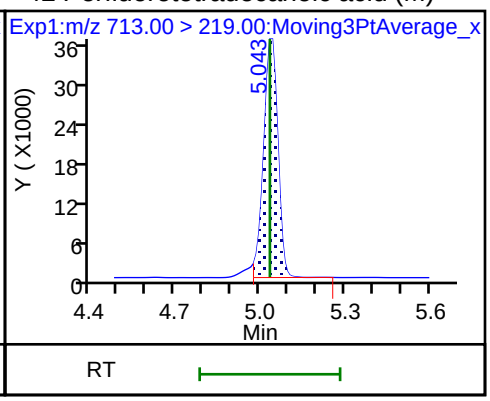
D 43 13C2 PFTeDA



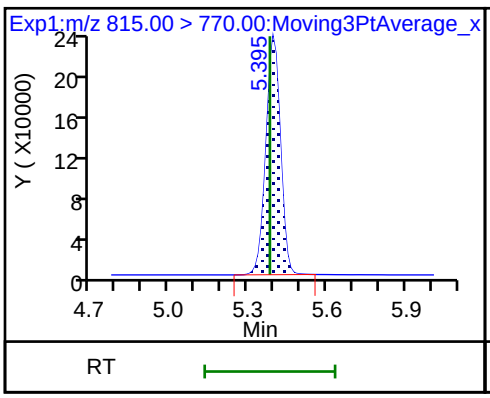
42 Perfluorotetradecanoic acid (M)



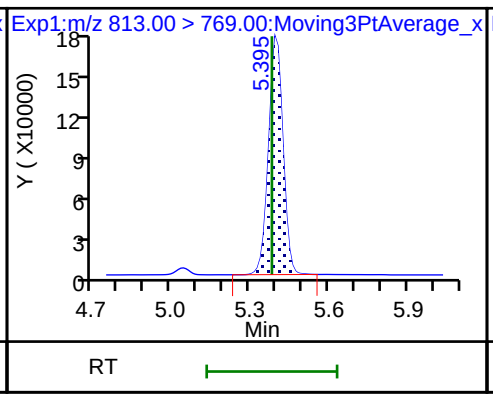
42 Perfluorotetradecanoic acid (M)



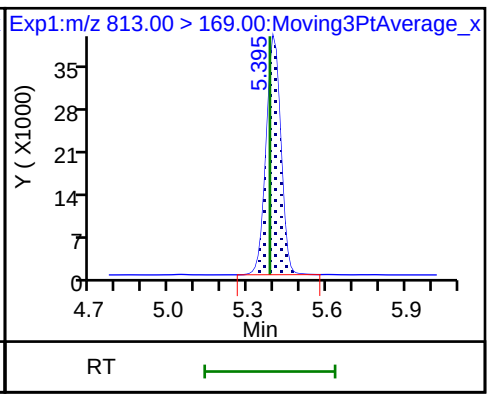
D 44 13C2 PFHxDA



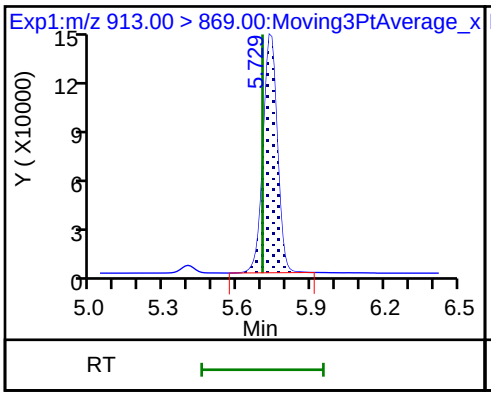
45 Perfluorohexadecanoic acid



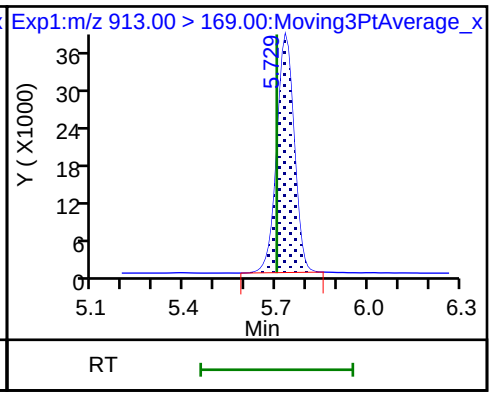
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

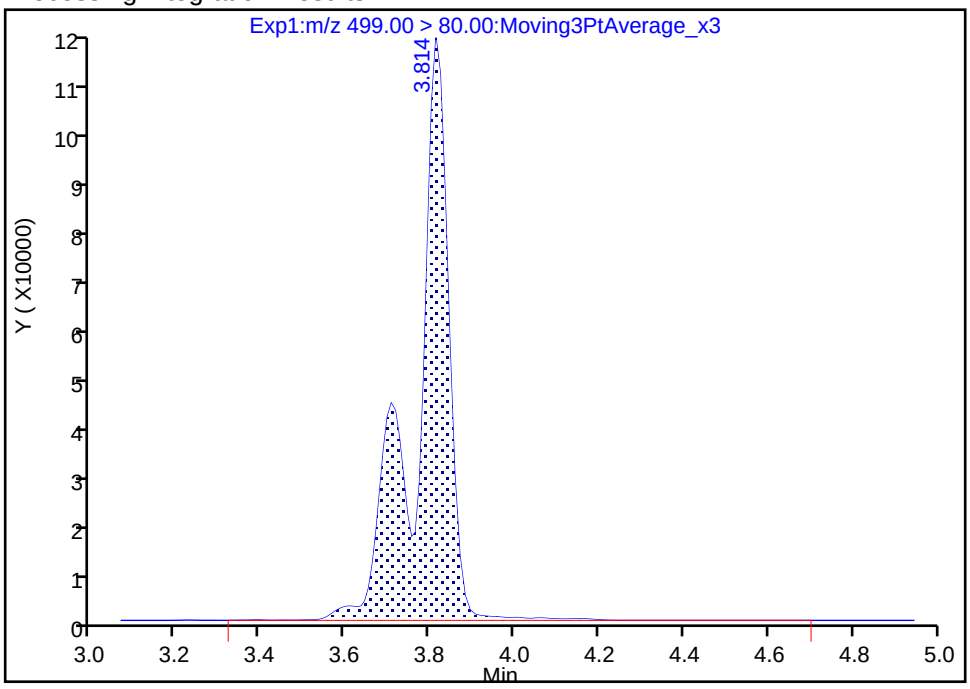
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Injection Date:	08-Jul-2021 16:16:57	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

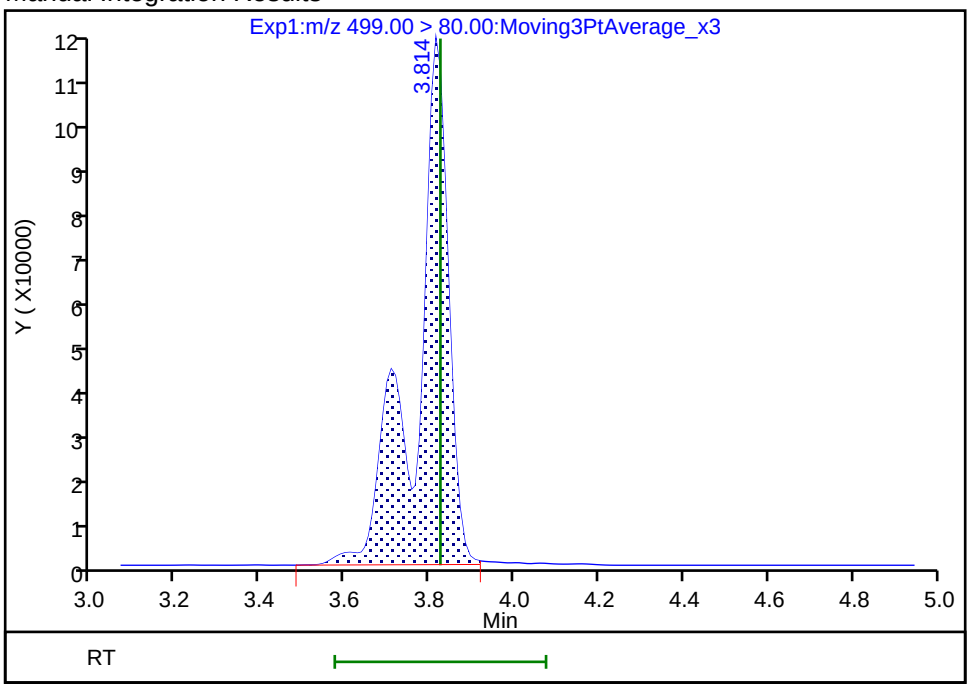
Processing Integration Results

RT: 3.81
Area: 649008
Amount: 0.885543
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 638616
Amount: 0.871364
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:37:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

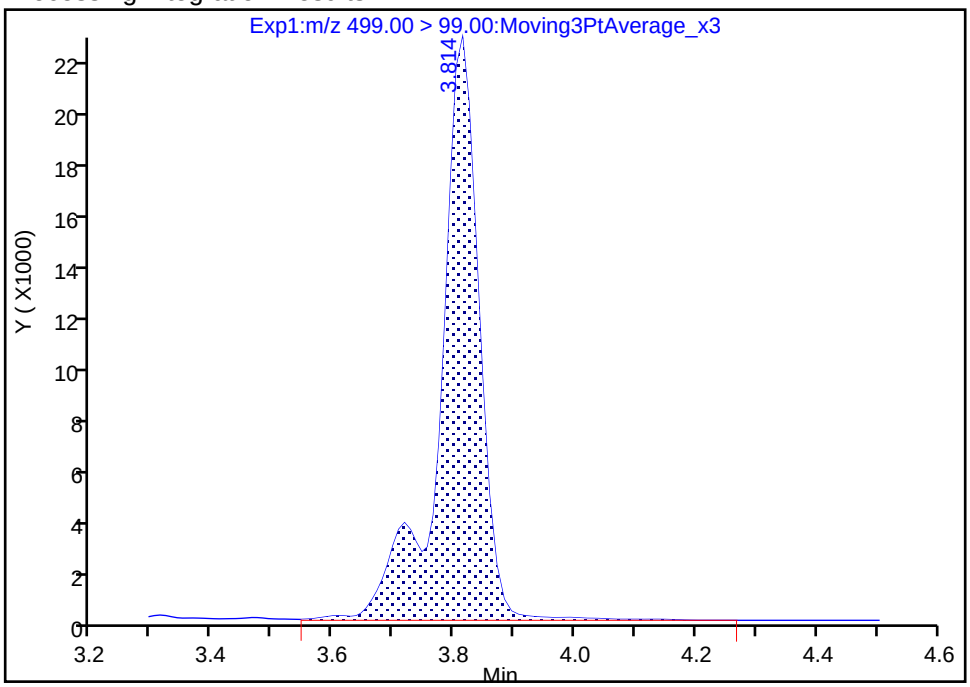
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Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

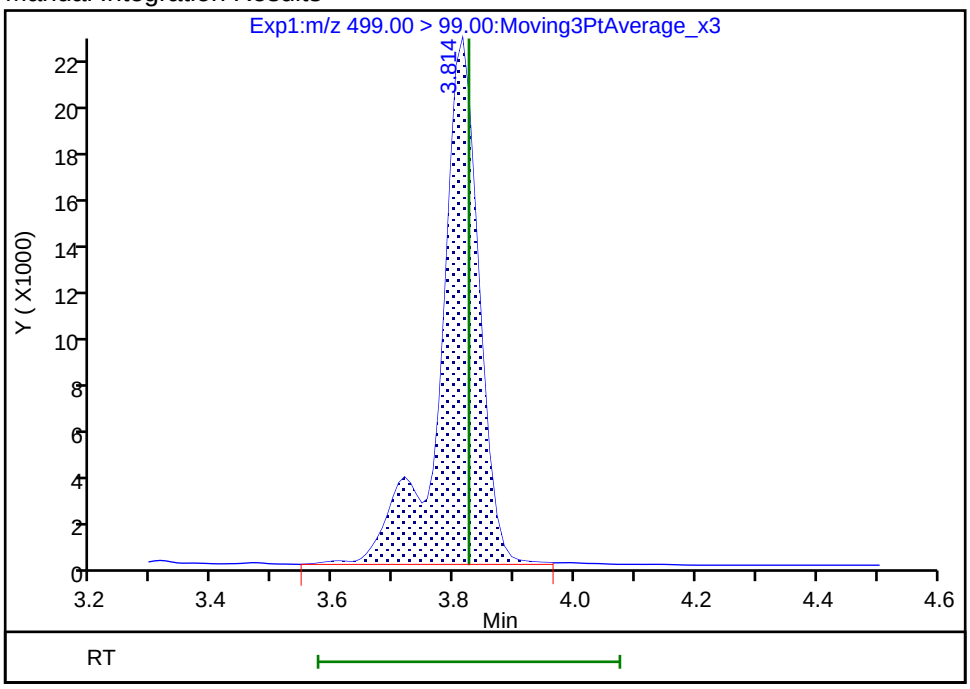
Processing Integration Results

RT: 3.81
Area: 100911
Amount: 0.885543
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 99365
Amount: 0.871364
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:37:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

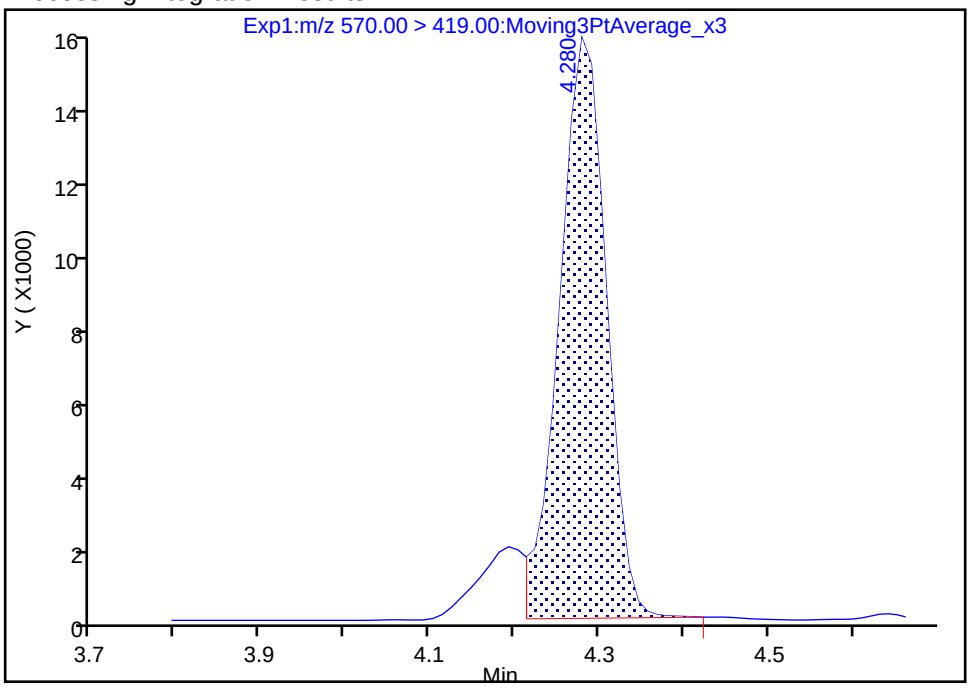
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Injection Date: 08-Jul-2021 16:16:57 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

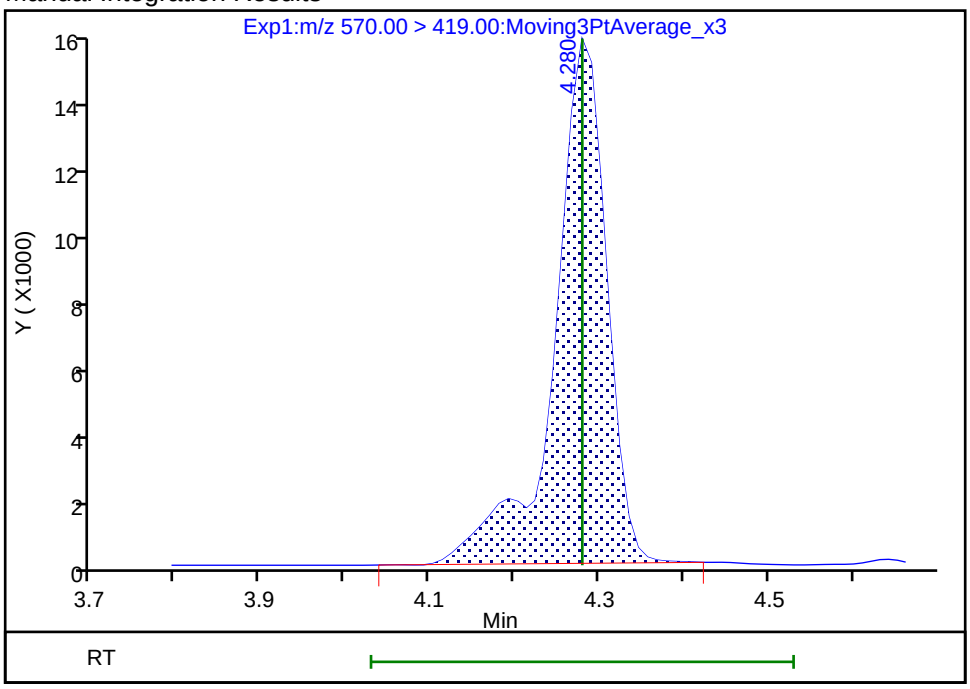
Processing Integration Results

RT: 4.28
Area: 61051
Amount: 0.848171
Amount Units: ng/ml



Manual Integration Results

RT: 4.28
Area: 68381
Amount: 0.950005
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:37:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

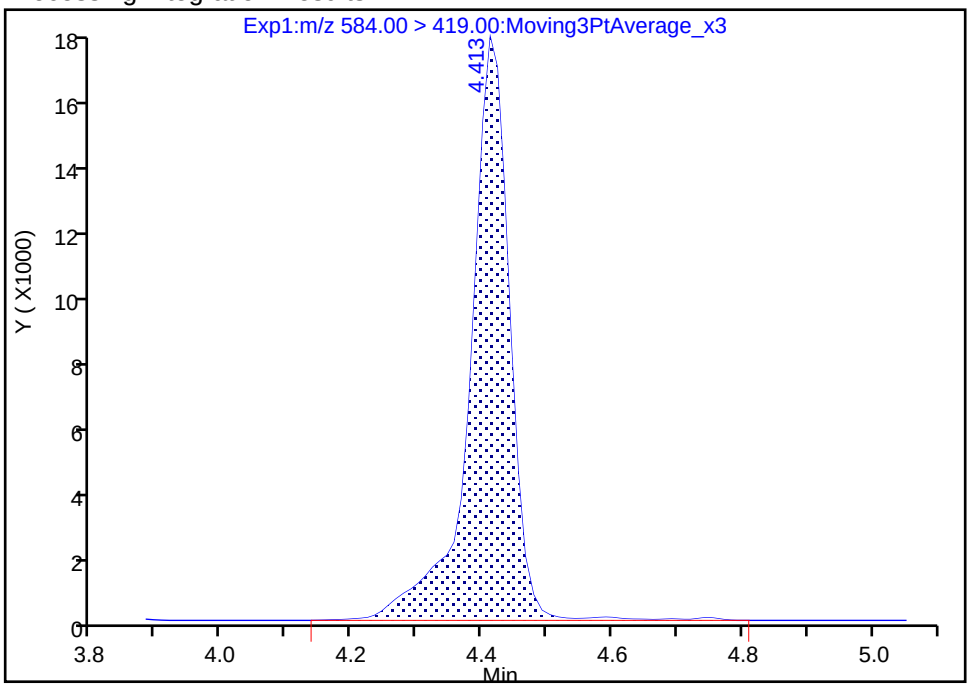
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Injection Date:	08-Jul-2021 16:16:57	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

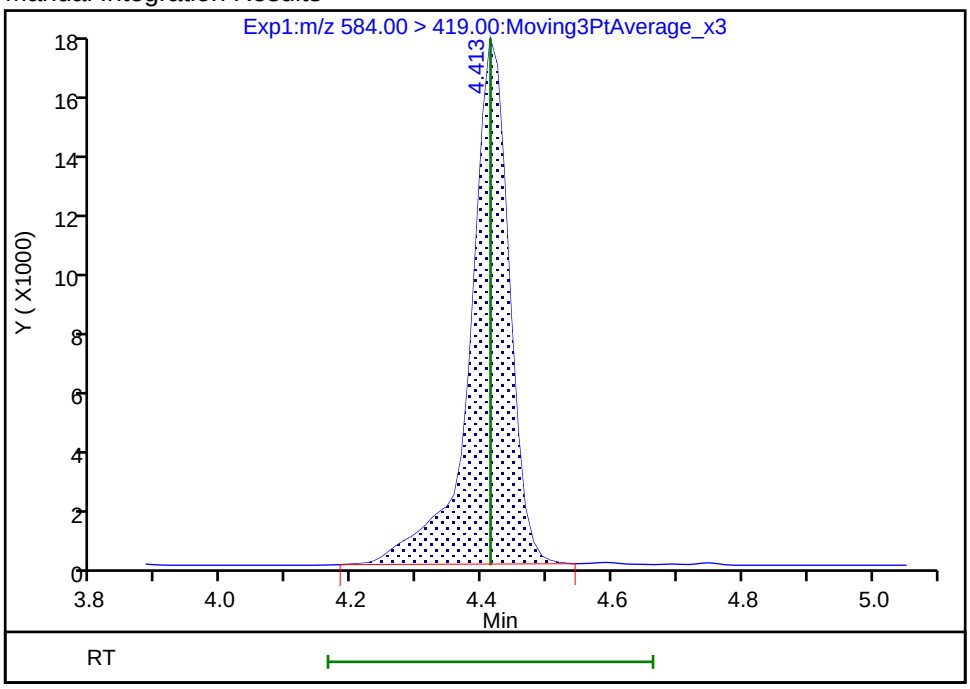
Processing Integration Results

RT: 4.41
Area: 75207
Amount: 1.079734
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 73718
Amount: 1.058357
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:37:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

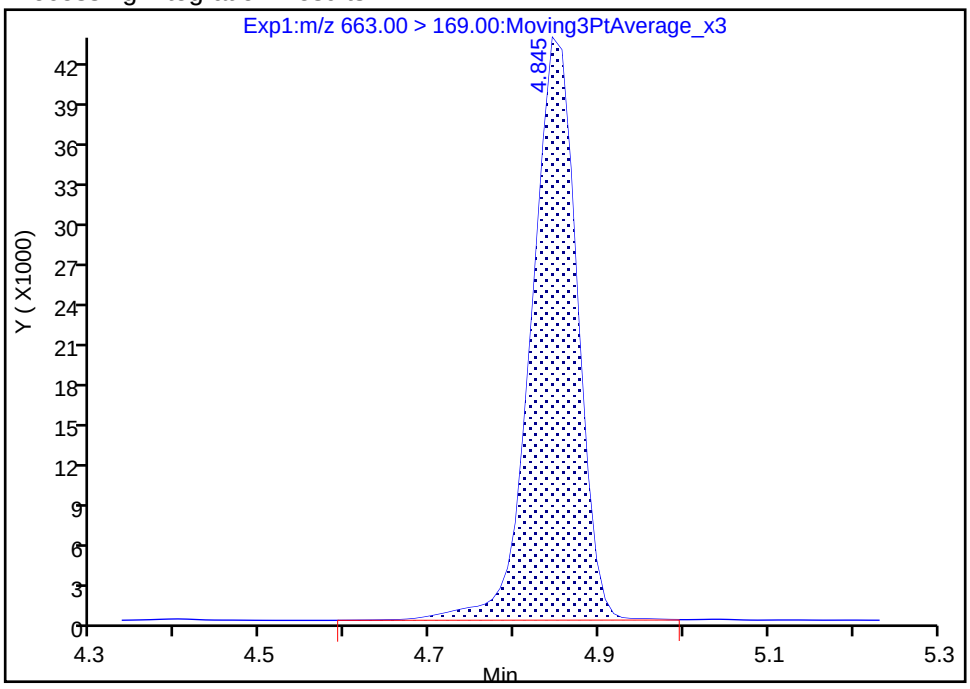
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL09.d				
Injection Date:	08-Jul-2021 16:16:57	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

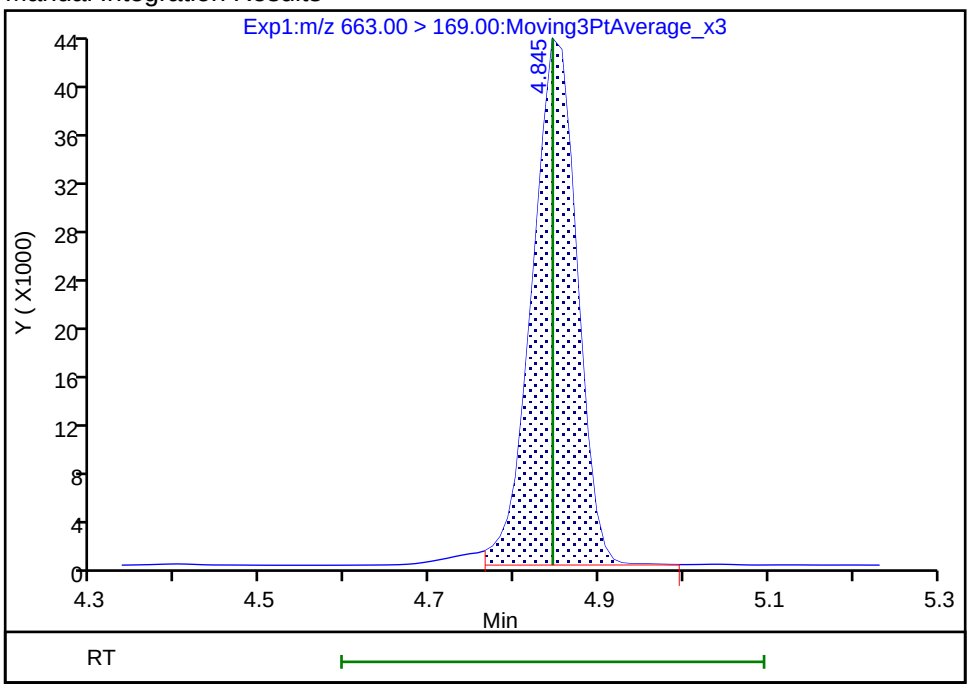
Processing Integration Results

RT: 4.84
Area: 163735
Amount: 0.874749
Amount Units: ng/ml



Manual Integration Results

RT: 4.84
Area: 160469
Amount: 0.874749
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:37:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

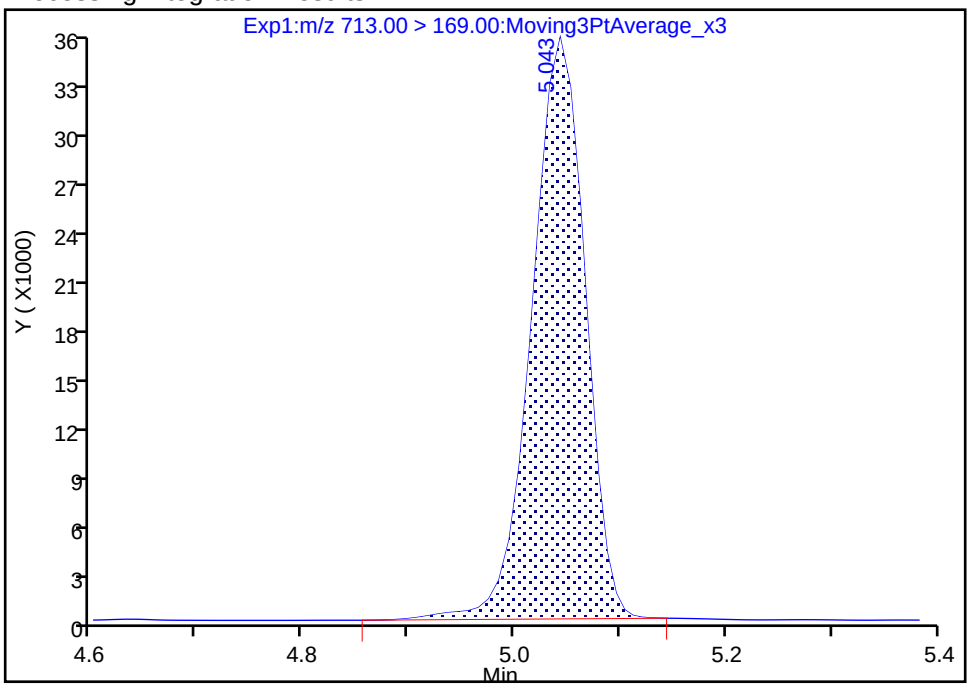
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Injection Date: 08-Jul-2021 16:16:57 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

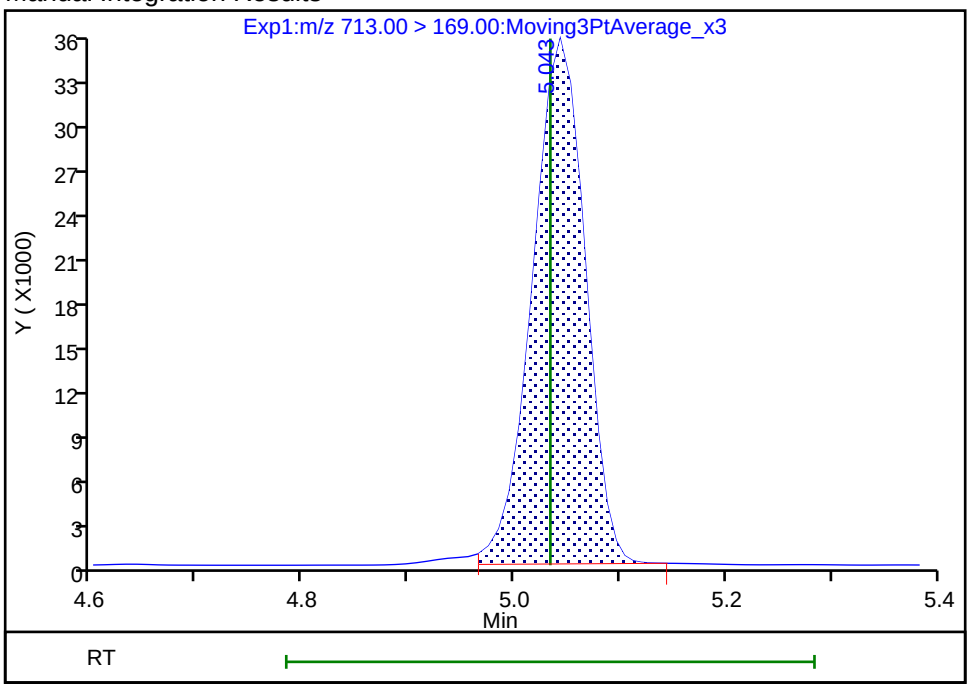
Processing Integration Results

RT: 5.04
Area: 122565
Amount: 1.017938
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 121067
Amount: 1.005497
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:37:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

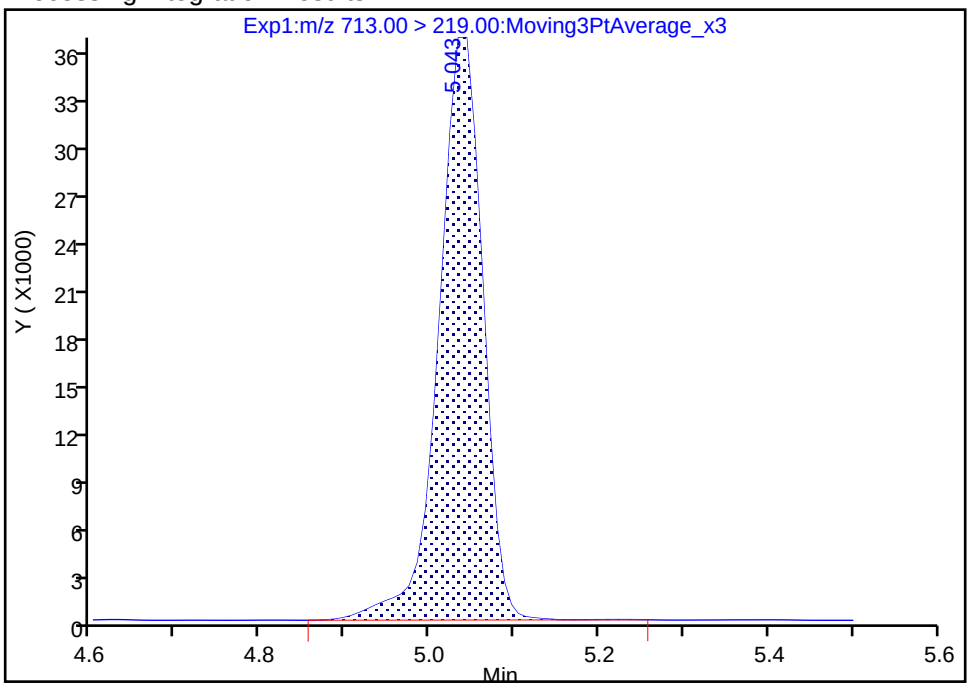
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL09.d				
Injection Date:	08-Jul-2021 16:16:57	Instrument ID:	LC812		
Lims ID:	ICV				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

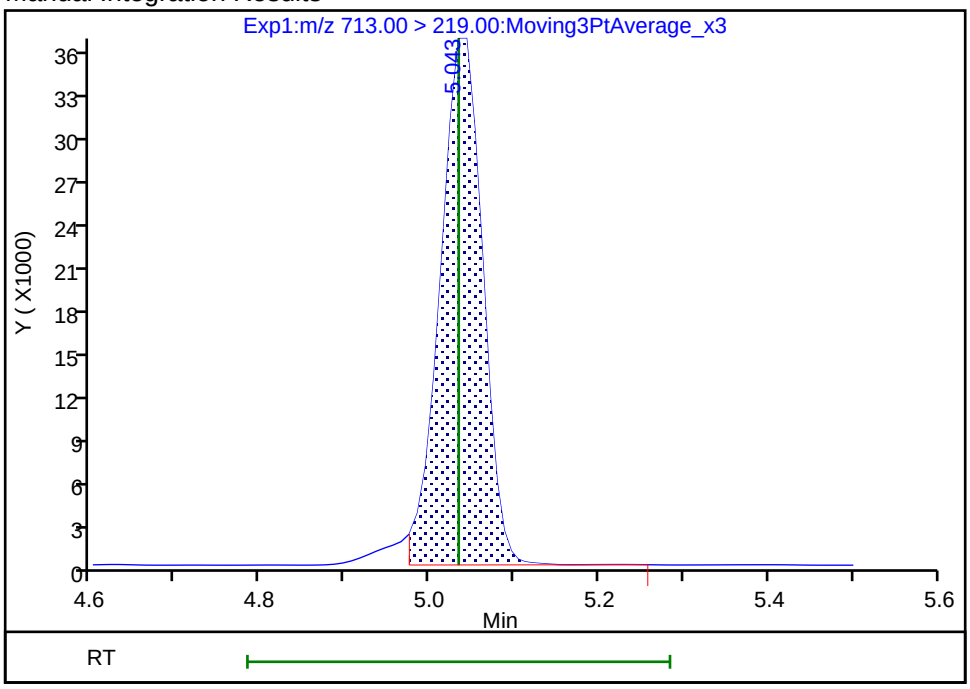
Processing Integration Results

RT: 5.04
Area: 133578
Amount: 1.017938
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 128863
Amount: 1.005497
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:37:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVL 200-170086/5 Calibration Date: 08/11/2021 13:18

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210811A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9638	1.119		0.145	0.125	16.1	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.035	1.230		0.0594	0.0500	18.8	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.080	1.152		0.0472	0.0442	6.7	50.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.928	1.908		0.0462	0.0467	-1.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.006	1.061		0.0527	0.0500	5.4	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.229	1.282		0.0489	0.0469	4.3	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.654	1.762		0.107	0.100	6.5	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.157	1.239		0.0487	0.0455	7.1	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	1.110		0.0537	0.0500	7.4	50.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.522	3.471		0.0464	0.0471	-1.5	50.0
6:2 FTS	AveID	1.036	1.014		0.116	0.119	-2.2	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.245	1.328		0.0508	0.0476	6.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.052	1.102		0.0524	0.0500	4.7	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.121	1.141		0.0472	0.0464	1.8	50.0
Perfluorononanoic acid (PFNA)	AveID	0.9669	1.011		0.0523	0.0500	4.6	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.225	1.165		0.0443	0.0466	-5.0	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8298	0.8471		0.0490	0.0480	2.1	50.0
8:2 FTS	AveID	0.4982	0.4201		0.0404	0.0479	-15.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.064	1.115		0.0524	0.0500	4.8	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9781	1.079		0.0552	0.0500	10.3	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8313	0.8677		0.130	0.125	4.4	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6334	0.6087		0.0463	0.0482	-3.9	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9674	0.9770		0.0505	0.0500	1.0	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8472	1.068		0.158	0.125	26.1	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	1.012	1.035		0.0482	0.0471	2.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.009	1.021		0.0506	0.0500	1.1	50.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.2522	0.2996		0.0573	0.0482	18.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2155	0.2196		0.0493	0.0484	1.9	50.0

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVL 200-170086/5 Calibration Date: 08/11/2021 13:18

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210811A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8702	0.8728		0.0502	0.0500	0.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1719	0.2077		0.0604	0.0500	20.9	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.164		0.0520	0.0500	4.0	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8466	0.8066		0.0476	0.0500	-4.7	50.0
13C4 PFBA	Ave	1.144	1.213		1.32	1.25	6.0	50.0
13C5 PFPeA	Ave	0.8660	0.8966		1.29	1.25	3.5	50.0
13C3 PFBS	Ave	0.9175	0.997		1.26	1.16	8.6	50.0
M2-4:2 FTS	Ave	0.0758	0.0875		1.35	1.17	15.5	50.0
13C2 PFHxA	Ave	0.9540	1.027		1.35	1.25	7.6	50.0
13C3 HFPO-DA	Ave	0.1030	0.1175		1.43	1.25	14.0	50.0
18O2 PFHxS	Ave	0.7289	0.7885		1.28	1.18	8.2	50.0
13C4 PFHpA	Ave	0.9564	0.9574		1.25	1.25	0.1	50.0
M2-6:2 FTS	Ave	0.1011	0.1159		1.36	1.19	14.6	50.0
13C4 PFOA	Ave	0.9874	1.048		1.33	1.25	6.1	50.0
13C4 PFOS	Ave	0.5319	0.5750		1.29	1.20	8.1	50.0
13C5 PFNA	Ave	0.9379	0.9598		1.28	1.25	2.3	50.0
13C2 PFDA	Ave	0.8507	0.9172		1.35	1.25	7.8	50.0
M2-8:2 FTS	Ave	0.1204	0.1364		1.36	1.20	13.3	50.0
13C8 FOSA	Ave	0.9381	0.9798		1.31	1.25	4.5	50.0
d3-NMeFOSAA	Ave	0.0626	0.0674		1.35	1.25	7.7	50.0
13C2 PFUnA	Ave	0.6747	0.7245		1.34	1.25	7.4	50.0
d5-NEtFOSAA	Ave	0.0651	0.0661		1.27	1.25	1.5	50.0
13C2 PFDoA	Ave	0.6975	0.7275		1.30	1.25	4.3	50.0
13C2 PFTeDA	Ave	0.5468	0.5219		1.19	1.25	-4.5	50.0
13C2 PFHxDA	Ave	0.5565	0.6023		1.35	1.25	8.2	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 11-Aug-2021 13:18:40 ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: 200-0047128-005 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:31:29 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 07:39:43
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	2.117	2.082	0.035	0.600	1741423	1.32		106	10836	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.117	2.082	0.035	1.000	194929	0.1452		116	30.6	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.691	1287123	1.29		104	3440	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.452	2.413	0.039	1.005	63308	0.0594		119	6.2	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.465	2.426	0.039	0.699	1330941	1.26		109	250176	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.465	2.426	0.039	1.000	58316	0.0472	Target=2.20	107	181	
298.90 > 99.00	2.465	2.426	0.039	1.000	25338		2.30(1.10-3.30)		24.5	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.770	2.734	0.036	1.000	8958	0.0462		98.9	218	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.770	2.734	0.036	0.785	117390	1.35		116	167	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.807	2.782	0.025	0.796	1474154	1.35		108	3999	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.807	2.782	0.025	1.000	62538	0.0527	Target=12.93	105	19.3	M
313.00 > 119.00	2.807	2.782	0.025	1.000	4958		12.61(6.46-19.39)		13.7	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.807	2.782	0.025	0.887	54438	0.0489	Target=3.71	104	226	M
349.00 > 99.00	2.807	2.782	0.025	0.887	14532		3.75(1.85-5.56)		37.0	M
D 64 13C3 HFPO-DA										M
332.10 > 287.00	2.911	2.892	0.019	0.825	168662	1.43		114	1984	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.911	2.892	0.019	1.000	23769	0.1065		107	9.1	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.164	3.154	0.010	0.897	1070803	1.28		108	1772	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.164	3.154	0.010	1.000	51062	0.0487	Target=4.48	107	222	M
399.00 > 99.00	3.164	3.154	0.010	1.000	12392		4.12(2.24-6.72)		20.2	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.175	3.154	0.021	1.000	61045	0.0537	Target=3.68	107	28.2	M
363.00 > 169.00	3.175	3.154	0.021	1.000	15725		3.88(1.84-5.53)		65.2	
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1374408	1.25		100	4139	
77 DONA										
377.00 > 251.00	3.208	3.196	0.012	0.836	107939	0.0464	Target=2.47	98.5	285	
377.00 > 85.00	3.208	3.196	0.012	0.836	42583		2.53(1.24-3.71)		120	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.519	3.510	0.009	0.917	41754	0.0508	Target=6.56	107	342	M
449.00 > 99.00	3.519	3.510	0.009	0.917	5745		7.27(3.28-9.84)		33.2	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.519	3.510	0.009	0.997	158082	1.36		115	759	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.519	3.510	0.009	1.000	15996	0.1159		97.8	201	M
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1504102	1.33		106	3600	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1435597	1.25			3434	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	66303	0.0524	Target=2.67	105	37.7	M
413.00 > 169.00	3.528	3.519	0.009	1.000	27859		2.38(1.33-4.00)		99.6	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.836	3.836	0.0	1.087	789090	1.29		108	2144	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	34959	0.0472	Target=6.69	102	34.9	M
499.00 > 99.00	3.836	3.836	0.0	1.000	7027		4.97(3.34-10.03)		36.2	M
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.094	1377826	1.28		102	6424	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.858	3.858	0.0	1.000	55716	0.0523	Target=7.21	105	24.0	M
463.00 > 169.00	3.858	3.858	0.0	1.000	7355		7.58(3.60-10.81)		103	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	4.002	3.992	0.010	1.043	35837	0.0443		95.0	403	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.126	4.115	0.011	1.076	26850	0.0490	Target=3.20	102	246	
549.00 > 99.00	4.126	4.115	0.011	1.076	8346		3.22(1.60-4.80)		38.3	M
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.148	0.012	1.179	1316754	1.35		108	2776	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.160	4.148	0.012	1.000	58729	0.0524	Target=8.42	105	80.1	
513.00 > 169.00	4.148	4.148	0.0	0.997	5964		9.85(4.21-12.63)		65.7	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.160	4.160	0.0	1.000	3152	0.0404		84.3	58.9	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.160	4.160	0.0	1.179	187585	1.36		113	916	M
D 21 13C8 FOSA										
506.00 > 78.00	4.234	4.224	0.010	1.200	1406628	1.31		104	3459	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.234	4.224	0.010	1.000	60720	0.0552		110	362	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.292	4.280	0.012	1.217	96702	1.35		108	783	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.303	4.291	0.012	1.003	8391	0.1305		104	48.4	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.392	4.369	0.023	1.145	19373	0.0463	Target=2.66	96.1	298	
599.00 > 99.00	4.392	4.369	0.023	1.145	7810		2.48(1.33-3.99)		80.8	M
D 30 13C2 PFUnA										M
565.00 > 520.00	4.414	4.402	0.012	1.251	1040046	1.34		107	2733	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.414	4.402	0.012	1.000	40644	0.0505	Target=7.70	101	67.5	M
563.00 > 169.00	4.425	4.402	0.023	1.002	4908		8.28(3.85-11.56)		79.1	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.425	4.413	0.012	1.254	94929	1.27		102	669	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.435	4.413	0.022	1.002	10141	0.1576		126	216	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.506	4.492	0.014	1.175	32192	0.0482		102	399	M
D 36 13C2 PFDoA										M
615.00 > 570.00	4.643	4.632	0.011	1.316	1044366	1.30		104	3807	M
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.643	4.632	0.011	1.000	42636	0.0506	Target=6.31	101	15.8	M
613.00 > 169.00	4.643	4.632	0.011	1.000	6763		6.30(3.15-9.46)		102	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.663	4.653	0.010	1.121	2262	0.0573		119	73.0	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.811	4.810	0.001	1.254	7018	0.0493	Target=0.45	102	244	
699.00 > 99.00	4.811	4.810	0.001	1.254	14248		0.49(0.23-0.68)		202	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.856	4.845	0.011	1.046	36461	0.0502	Target=4.61	100	17.7	
663.00 > 169.00	4.856	4.845	0.011	1.046	8395		4.34(2.31-6.92)		118	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.044	5.034	0.010	1.430	749251	1.19		95.5	2558	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.034	5.034	0.0	0.998	6225	0.0604	Target=1.00	121	89.7	M
713.00 > 219.00	5.034	5.034	0.0	0.998	5772		1.08(0.50-1.51)		164	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.383	5.383	0.0	1.526	864616	1.35		108	3152	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.383	5.383	0.0	1.000	40258	0.0520	Target=4.32	104	26.9	M
813.00 > 169.00	5.383	5.383	0.0	1.000	9959		4.04(2.16-6.48)		153	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.701	5.710	-0.009	1.059	27896	0.0476	Target=3.72	95.3	27.2	
913.00 > 169.00	5.701	5.710	-0.009	1.059	7548		3.70(1.86-5.58)		182	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00015 Amount Added: 100.00 Units: uL

Report Date: 12-Aug-2021 12:31:30 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d

Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812

Lims ID: CCVL

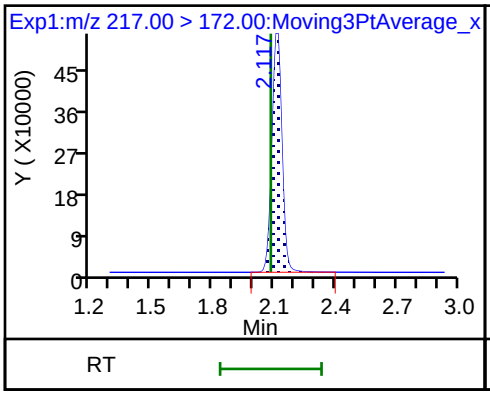
Client ID:

Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5

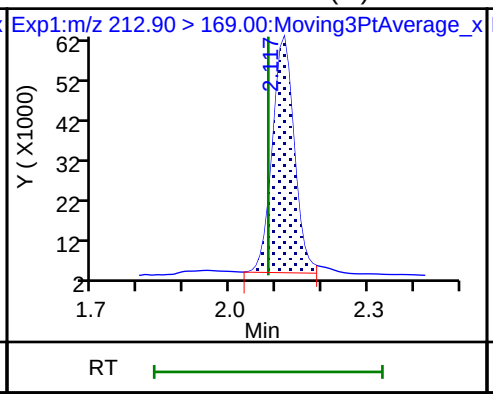
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

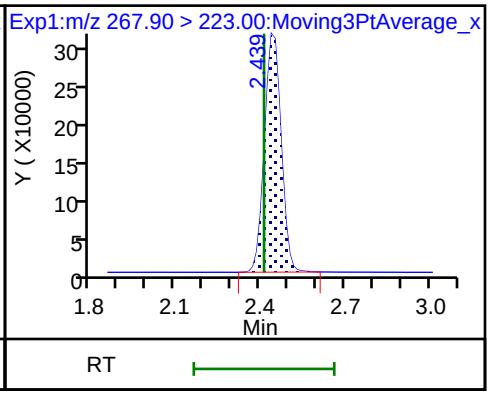
D 1 13C4 PFBA



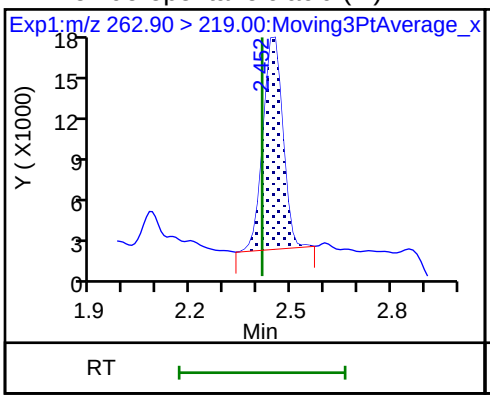
2 Perfluorobutanoic acid (M)



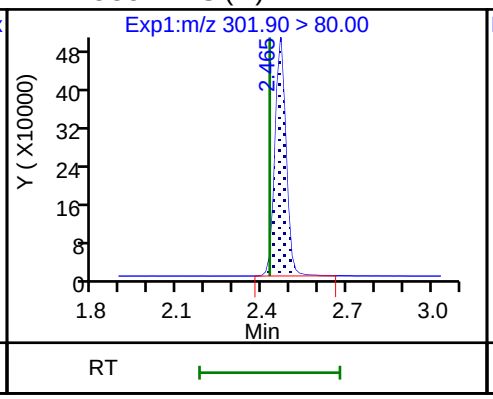
D 3 13C5 PFPeA



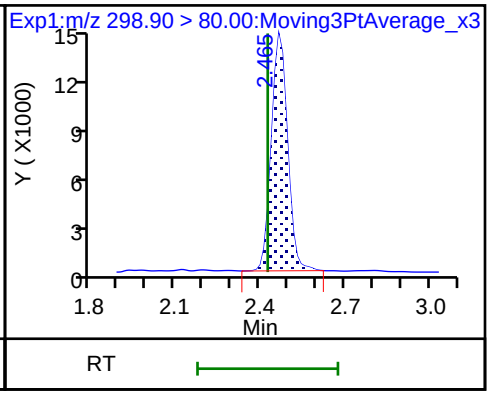
4 Perfluoropentanoic acid (M)



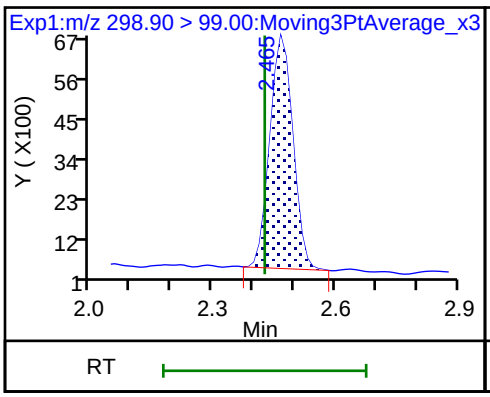
D 47 13C3 PFBS (M)



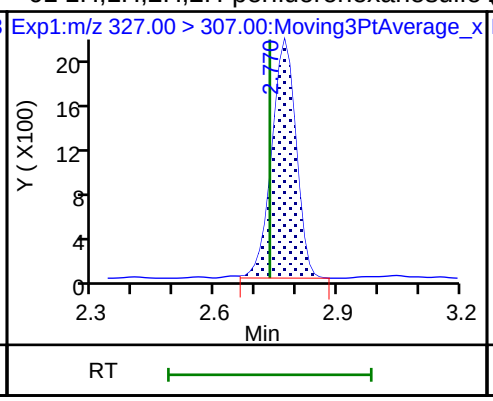
5 Perfluorobutanesulfonic acid



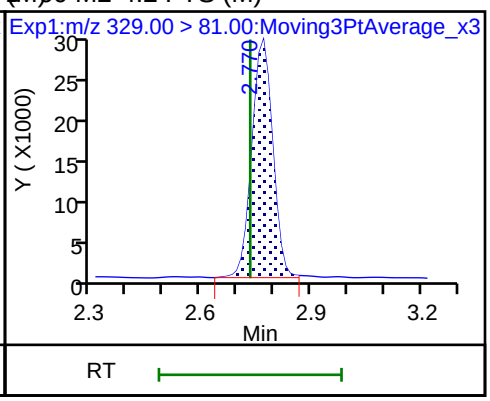
5 Perfluorobutanesulfonic acid



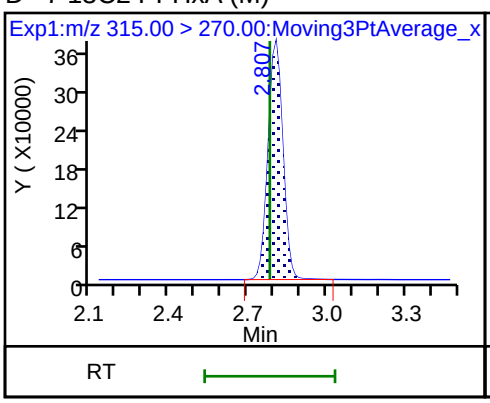
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



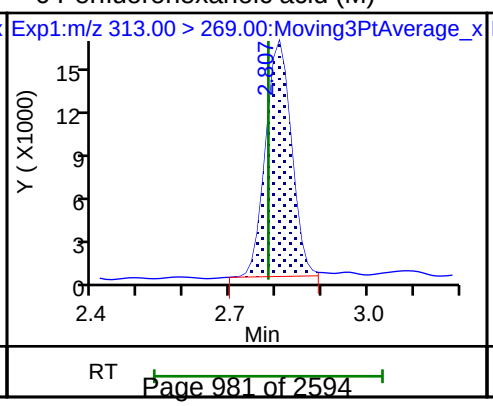
60 M2-4:2 FTS (M)



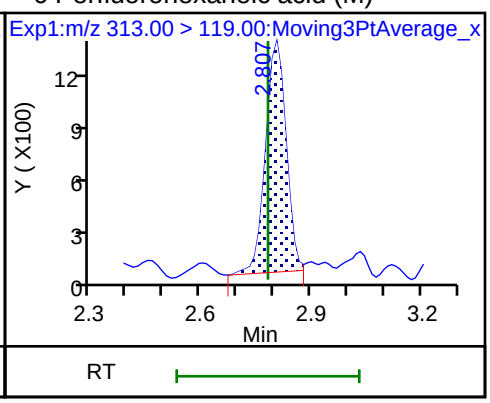
D 7 13C2 PFHxA (M)



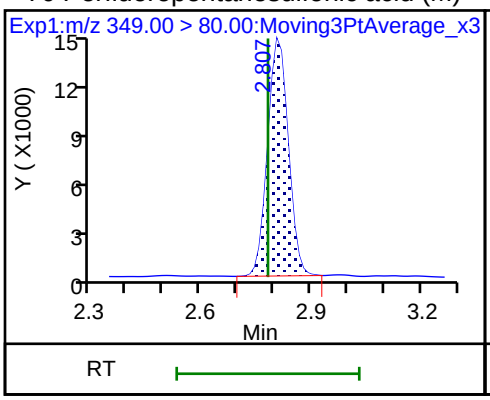
6 Perfluorohexanoic acid (M)



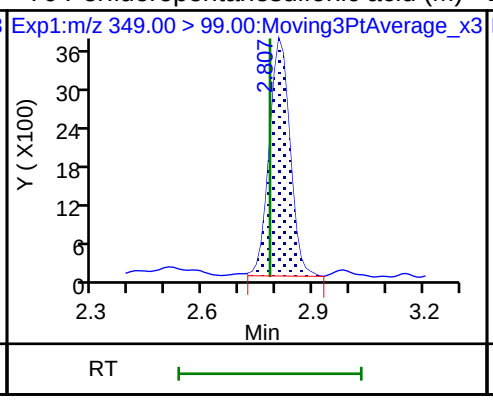
6 Perfluorohexanoic acid (M)



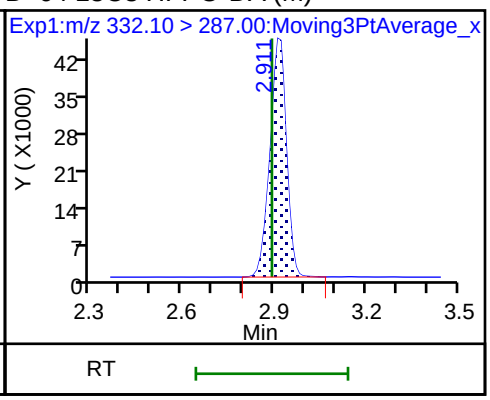
70 Perfluoropentanesulfonic acid (M)



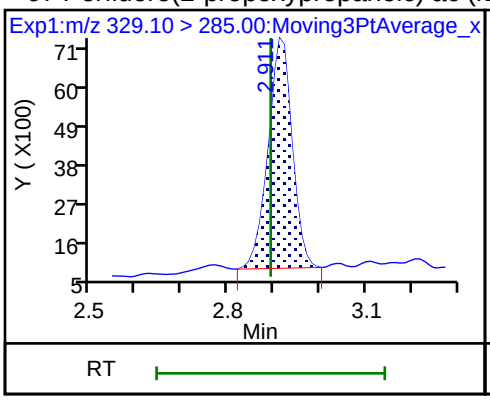
70 Perfluoropentanesulfonic acid (M)



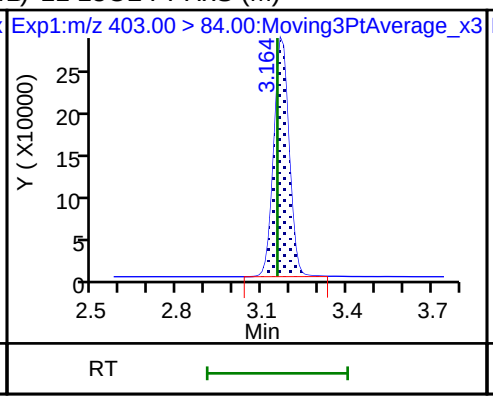
D 64 13C3 HFPO-DA (M)



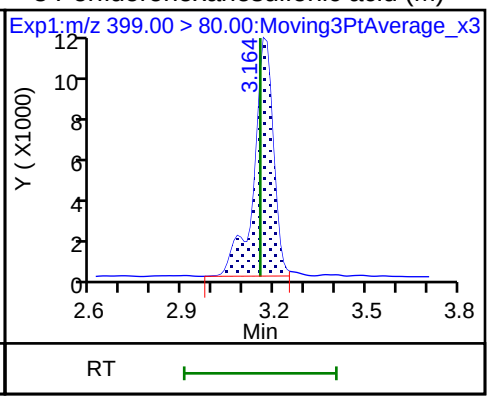
67 Perfluoro(2-propoxypropanoic) ac (M)



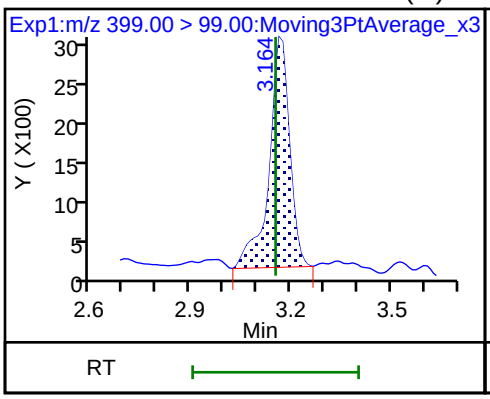
D 11 18O2 PFHxS (M)



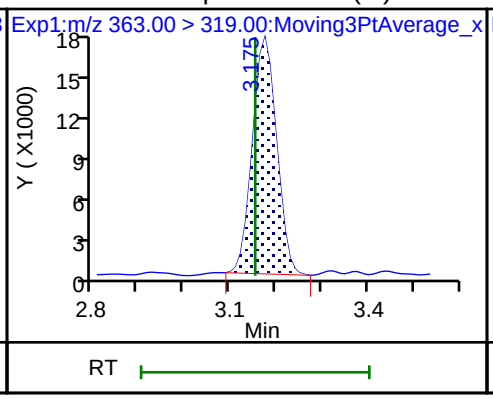
8 Perfluorohexanesulfonic acid (M)



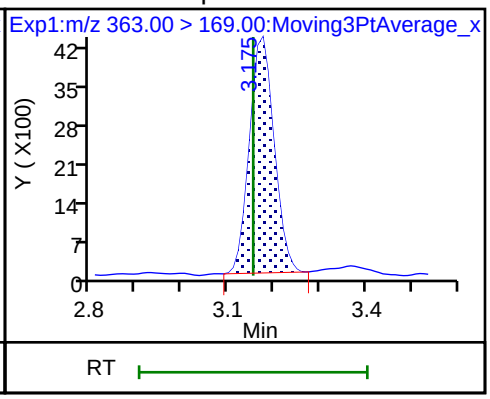
8 Perfluorohexanesulfonic acid (M)



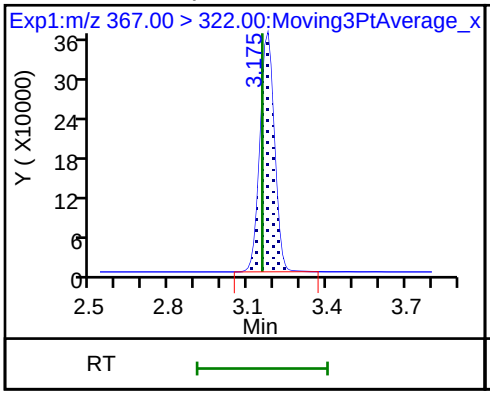
10 Perfluoroheptanoic acid (M)



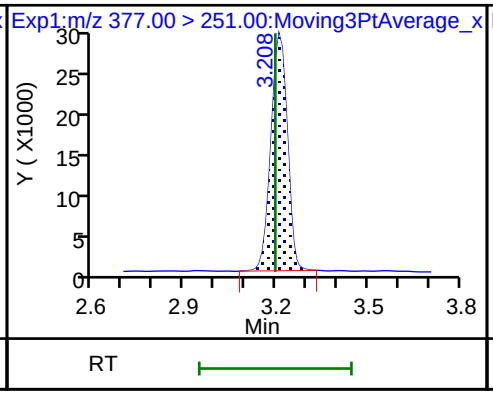
10 Perfluoroheptanoic acid



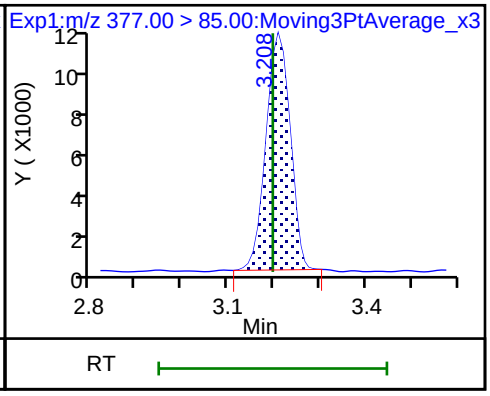
D 9 13C4 PFHpA



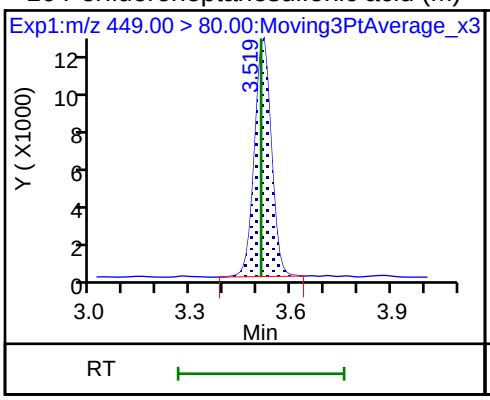
77 DONA



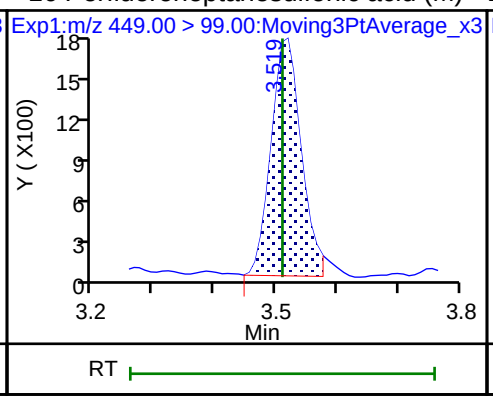
77 DONA



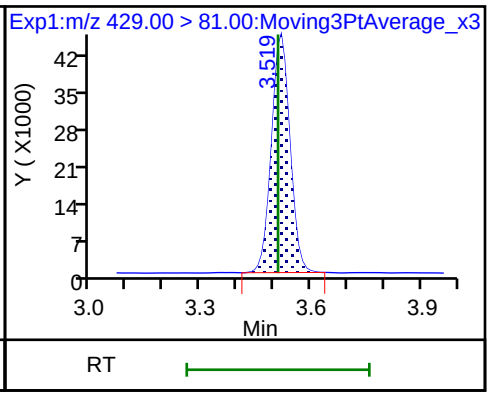
16 Perfluoroheptanesulfonic acid (M)



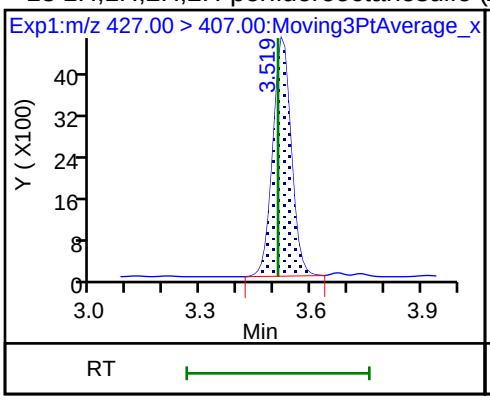
16 Perfluoroheptanesulfonic acid (M)



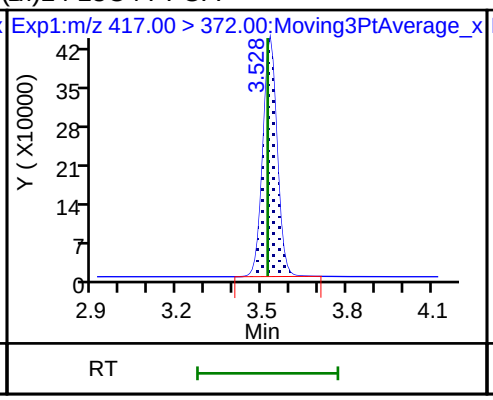
D 12 M2-6:2 FTS



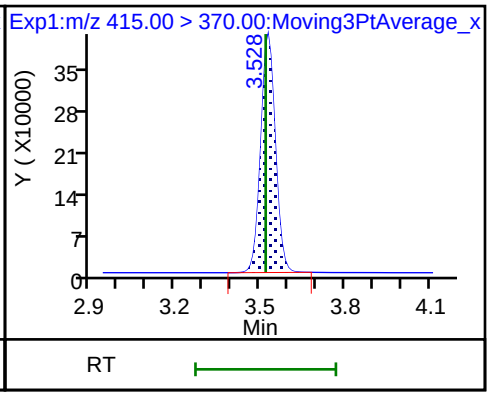
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



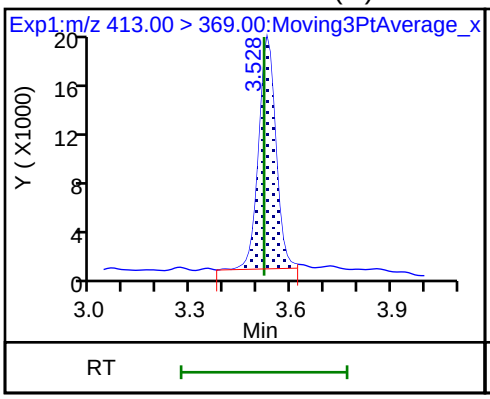
D 14 13C4 PFOA



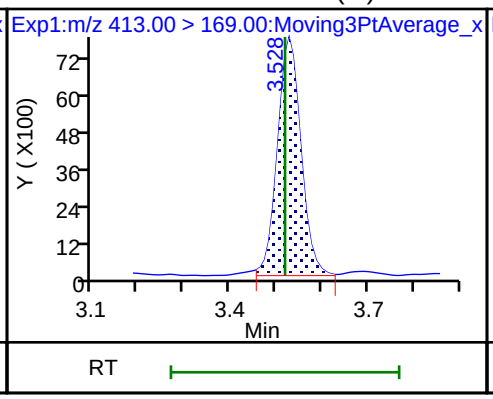
* 62 13C2 PFOA



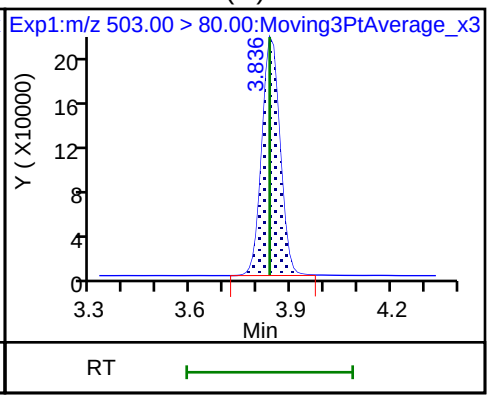
15 Perfluorooctanoic acid (M)



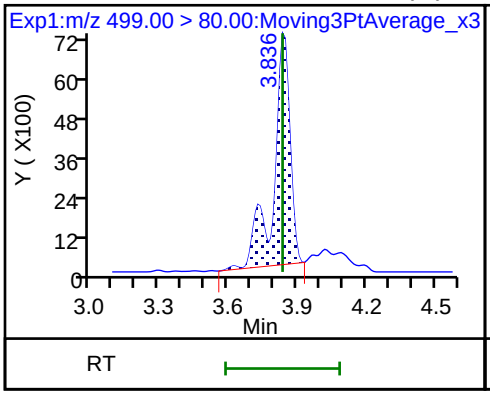
15 Perfluorooctanoic acid (M)



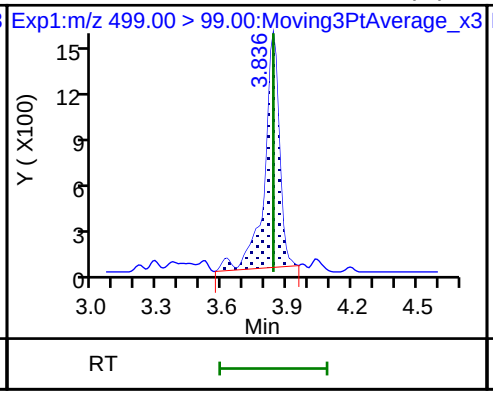
D 18 13C4 PFOS (M)



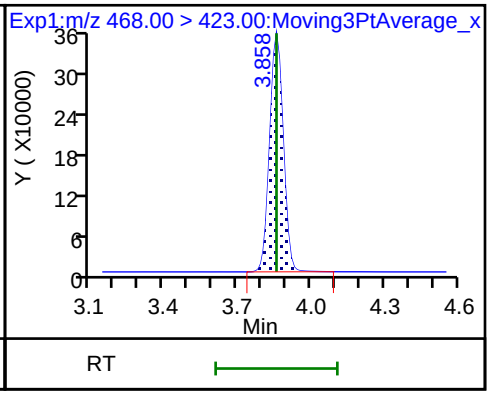
17 Perfluorooctanesulfonic acid (M)



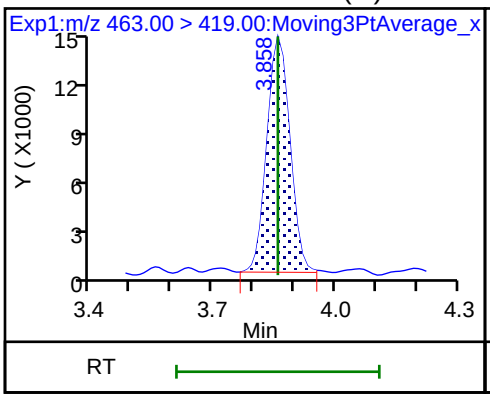
17 Perfluorooctanesulfonic acid (M)



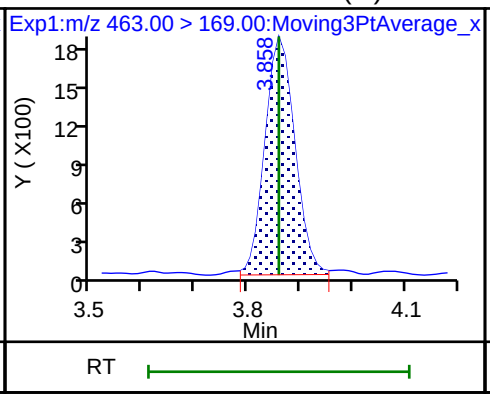
D 19 13C5 PFNA



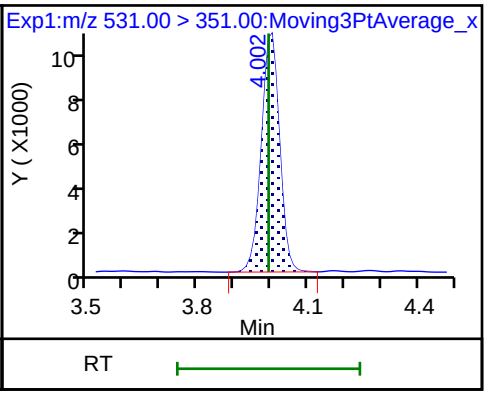
20 Perfluorononanoic acid (M)



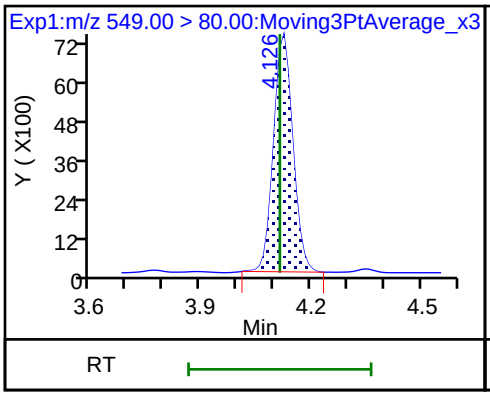
20 Perfluorononanoic acid (M)



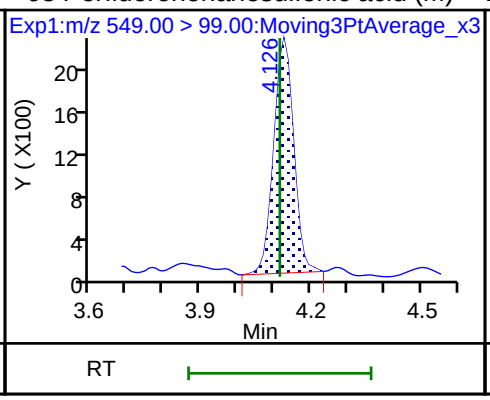
69 9-Chlorohexadecafluoro-3-oxanona (M)



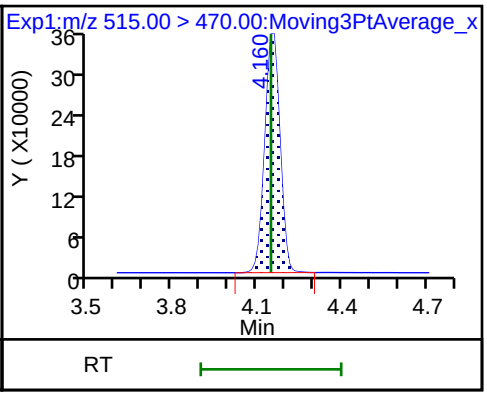
68 Perfluorononanesulfonic acid



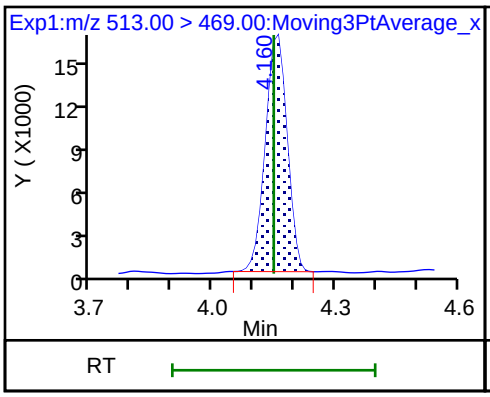
68 Perfluorononanesulfonic acid (M)



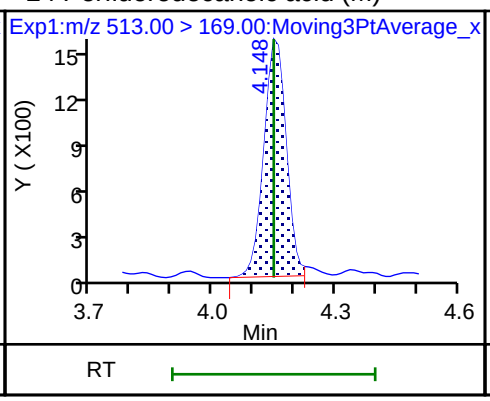
D 23 13C2 PFDA



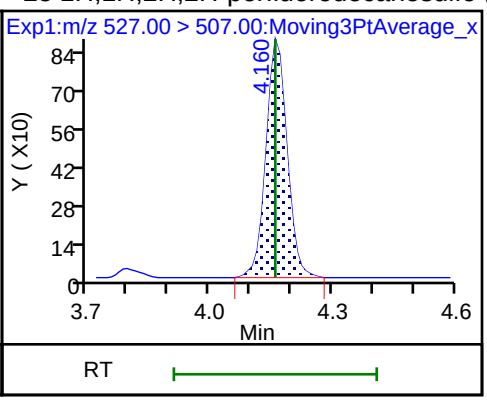
24 Perfluorodecanoic acid



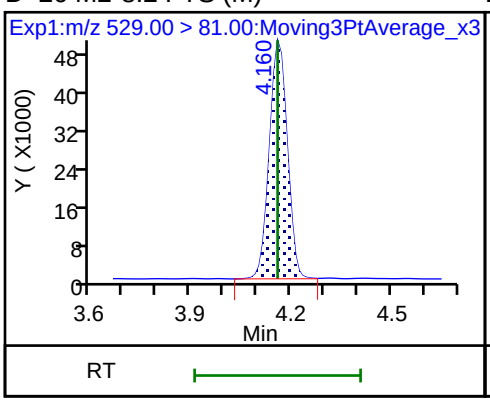
24 Perfluorodecanoic acid (M)



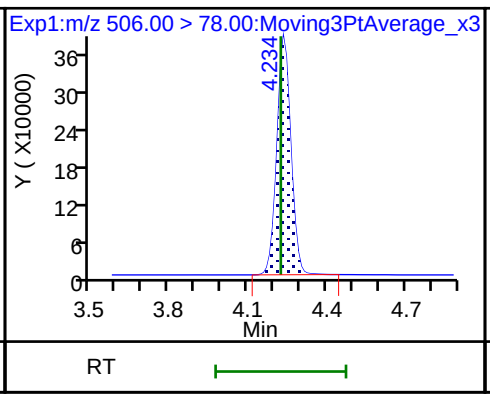
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



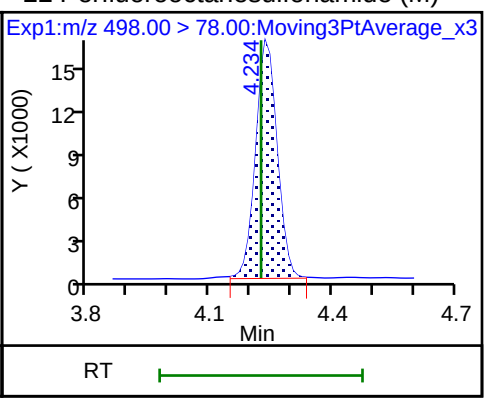
D 26 M2-8:2 FTS (M)



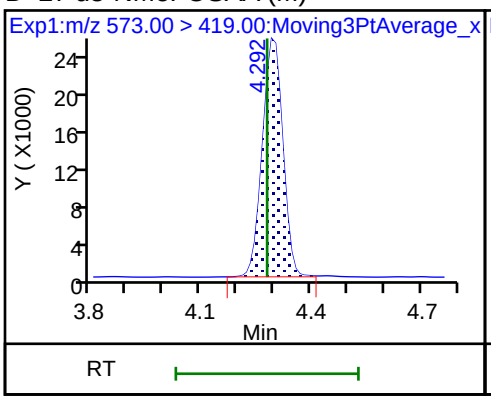
D 21 13C8 FOSA



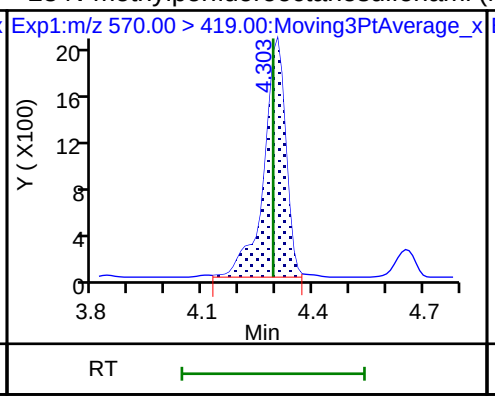
22 Perfluorooctanesulfonamide (M)



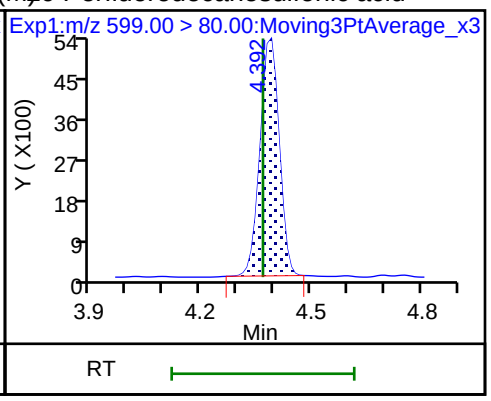
D 27 d3-NMeFOSAA (M)



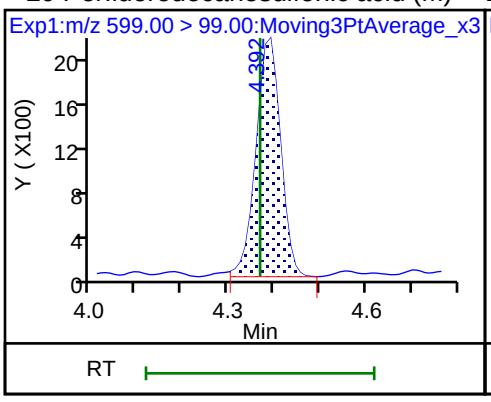
28 N-methylperfluorooctanesulfonami (M)



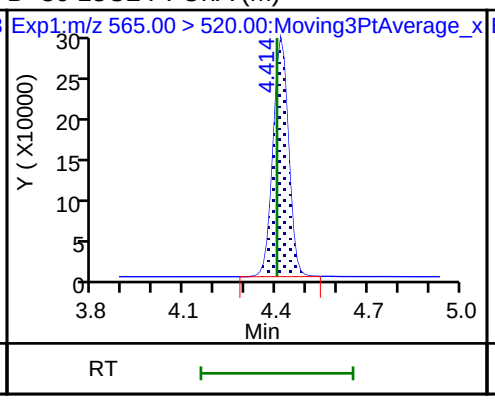
29 Perfluorodecanesulfonic acid



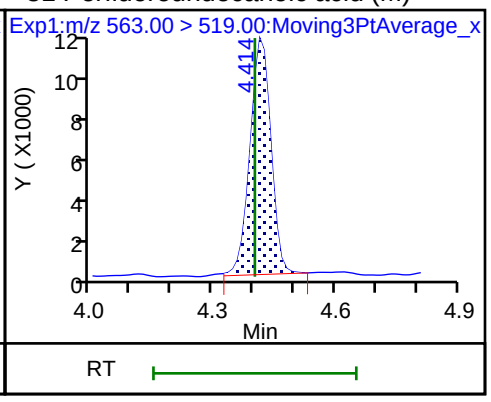
29 Perfluorodecanesulfonic acid (M)



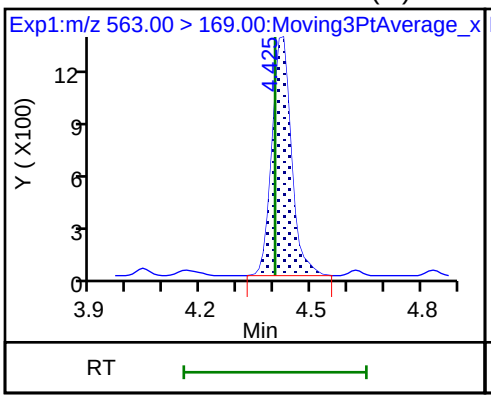
D 30 13C2 PFUnA (M)



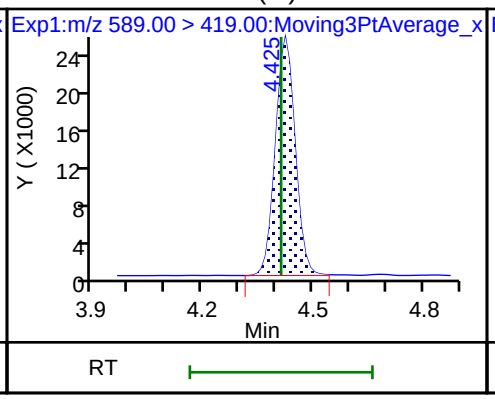
31 Perfluoroundecanoic acid (M)



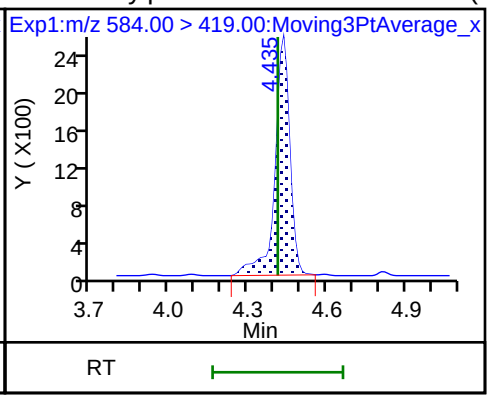
31 Perfluoroundecanoic acid (M)



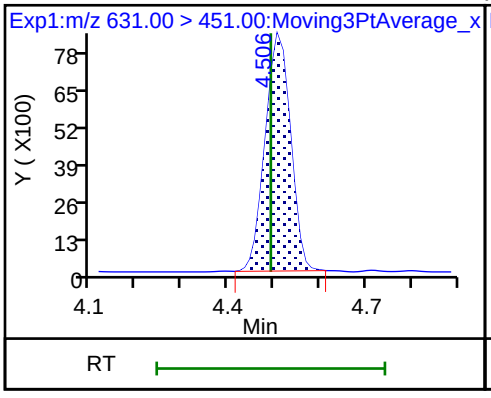
D 32 d5-NEtFOSAA (M)



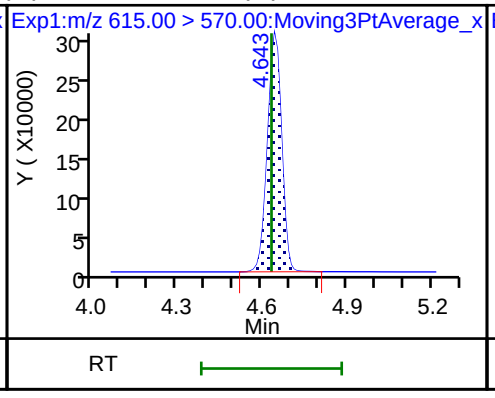
33 N-ethylperfluorooctanesulfonamid (M)



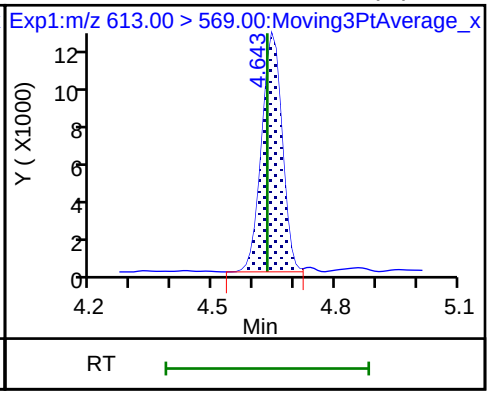
66 11-Chloroeicosafluoro-3-oxaundec (M)



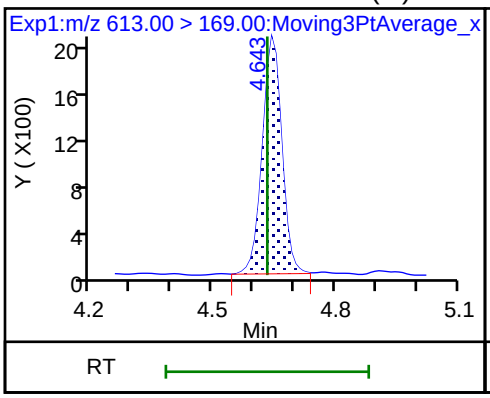
D 36 13C2 PFDoA (M)



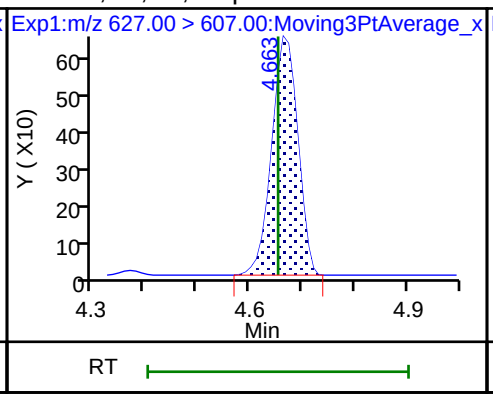
37 Perfluorododecanoic acid (M)



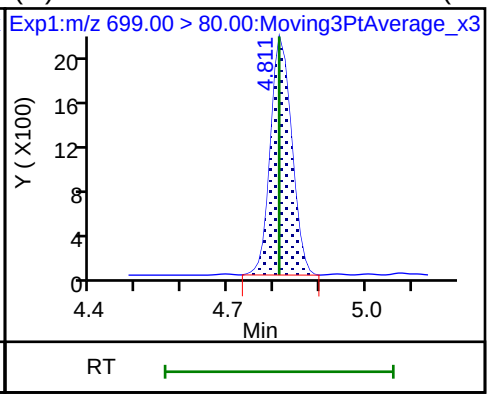
37 Perfluorododecanoic acid (M)



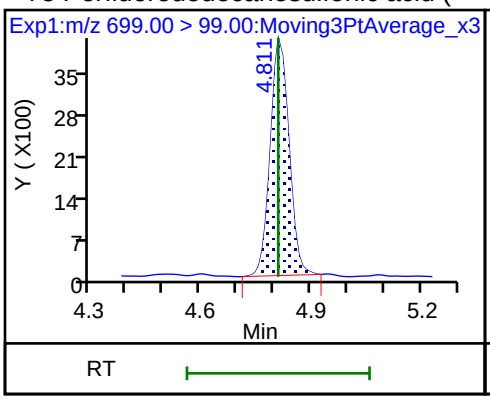
74 1H,1H,2H,2H-perfluorododecanesul (M)



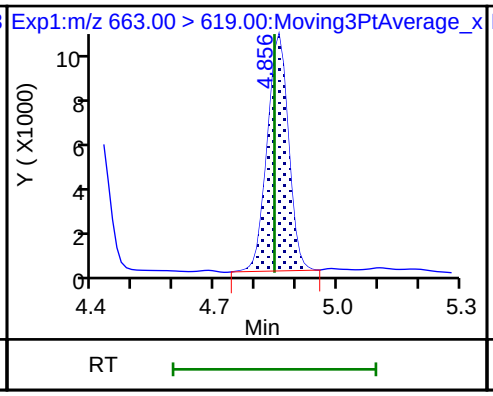
75 Perfluorododecanesulfonic acid (



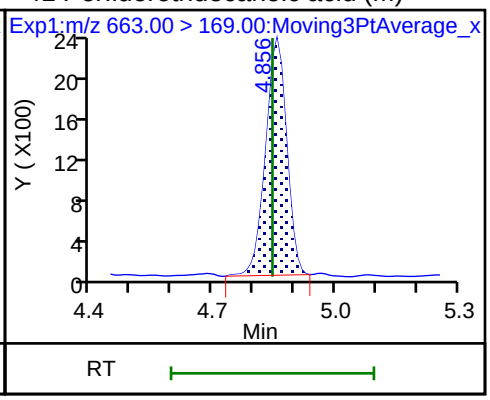
75 Perfluorododecanesulfonic acid (



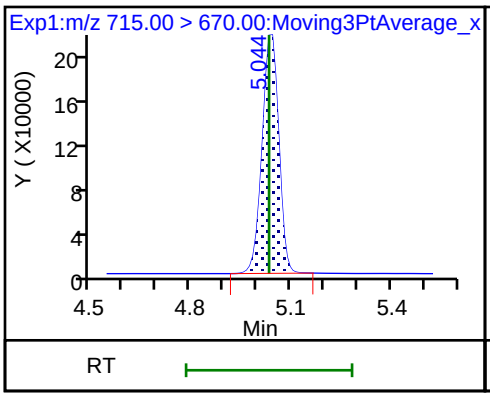
41 Perfluorotridecanoic acid



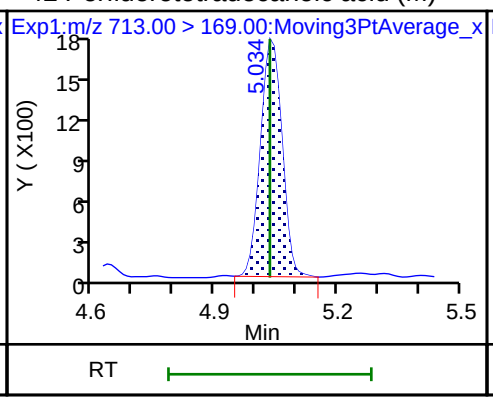
41 Perfluorotridecanoic acid (M)



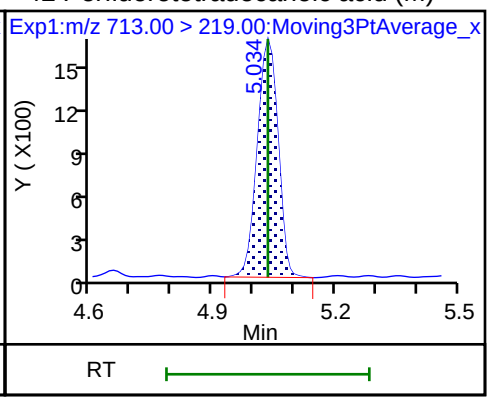
D 43 13C2 PFTeDA



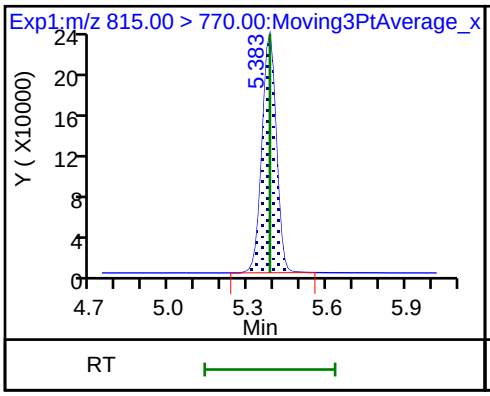
42 Perfluorotetradecanoic acid (M)



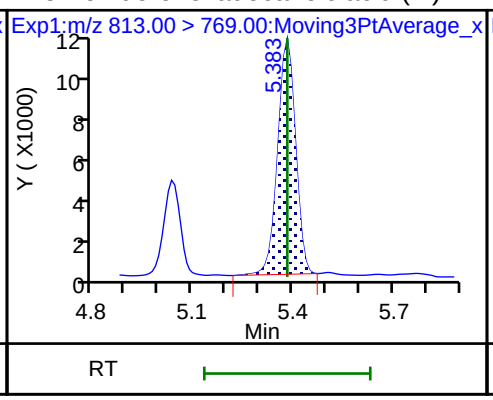
42 Perfluorotetradecanoic acid (M)



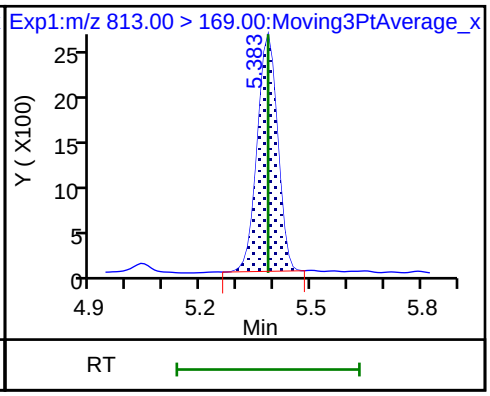
D 44 13C2 PFHxDA



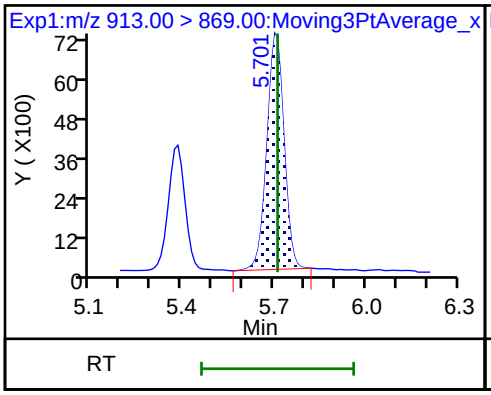
45 Perfluorohexadecanoic acid (M)



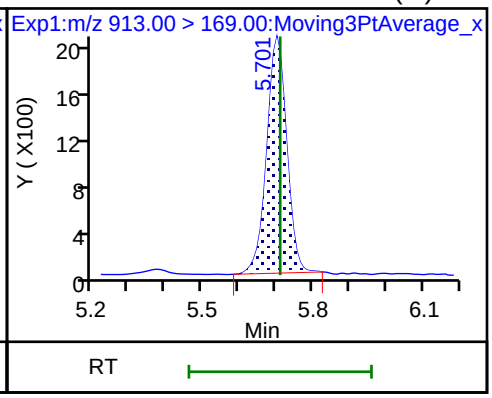
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

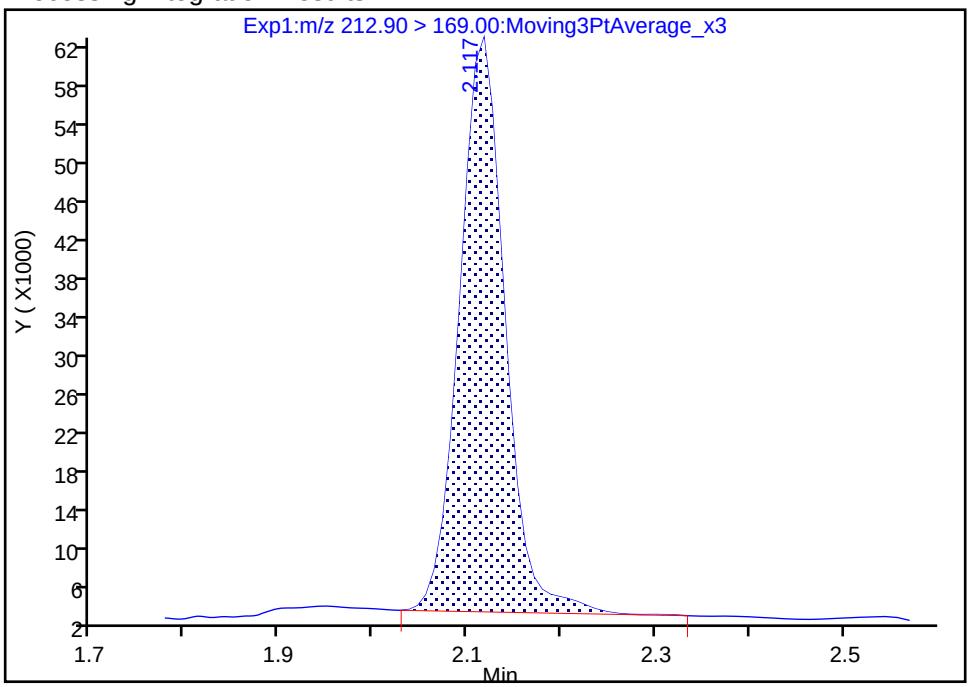
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

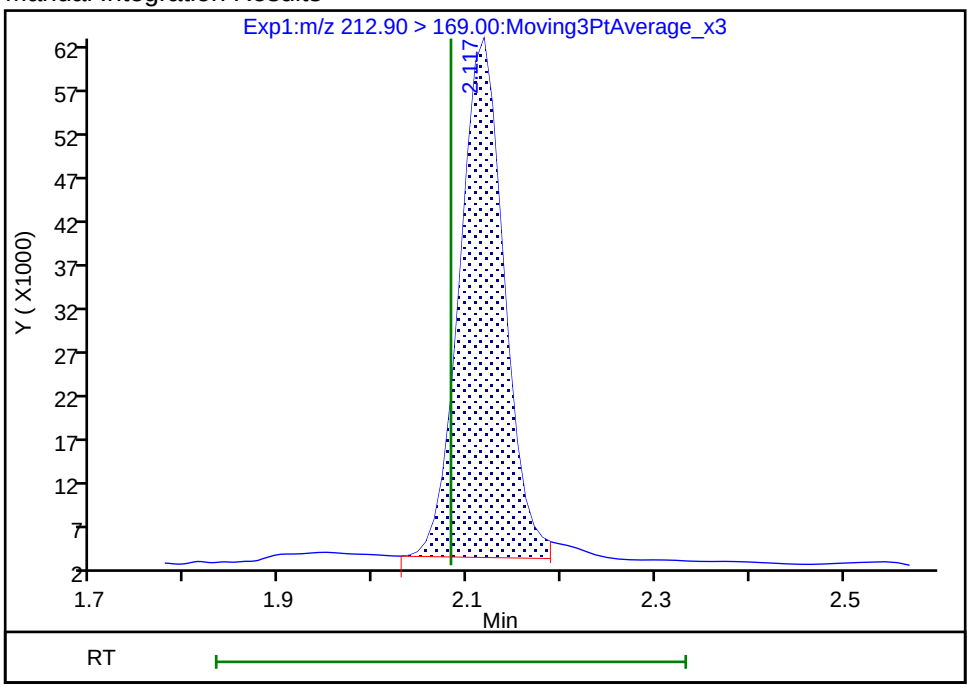
Processing Integration Results

RT: 2.12
Area: 199439
Amount: 0.148542
Amount Units: ng/ml



Manual Integration Results

RT: 2.12
Area: 194929
Amount: 0.145183
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:33:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

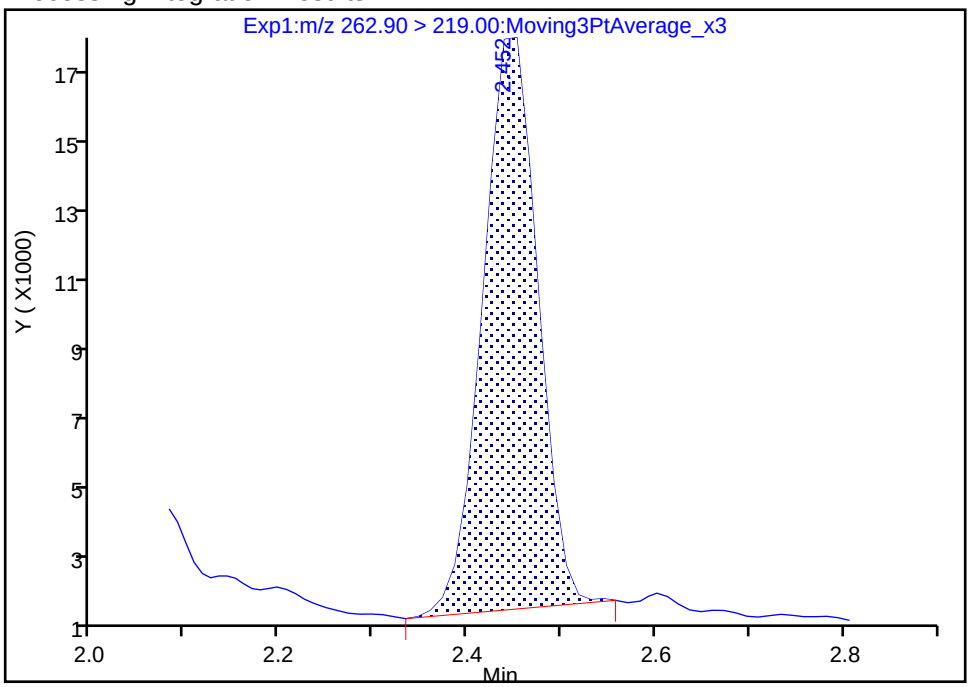
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Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

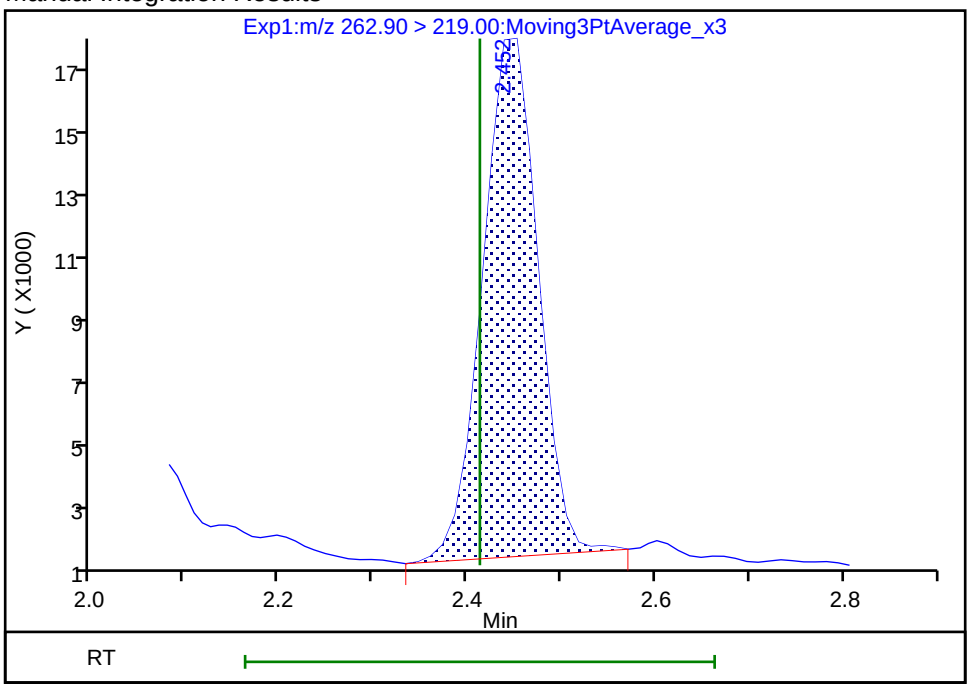
Processing Integration Results

RT: 2.45
Area: 62691
Amount: 0.058826
Amount Units: ng/ml



Manual Integration Results

RT: 2.45
Area: 63308
Amount: 0.059405
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:33:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

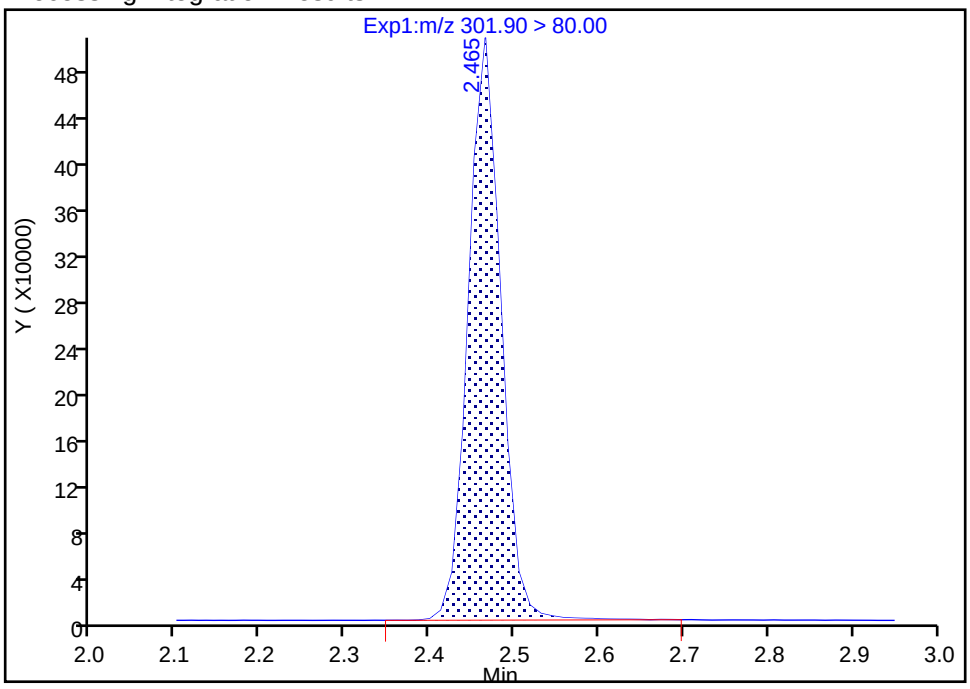
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

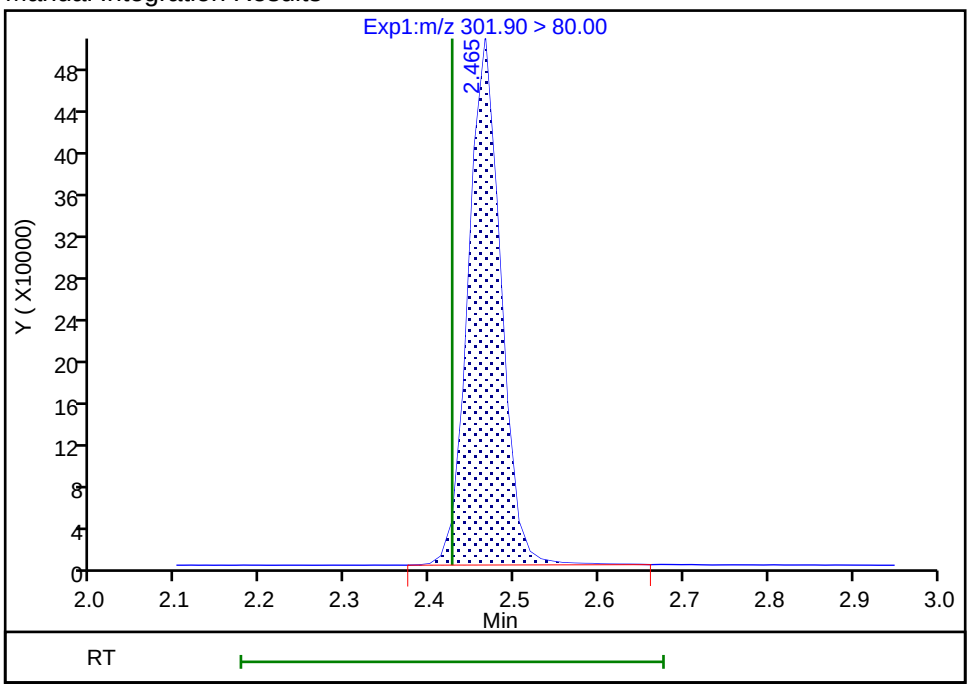
Processing Integration Results

RT: 2.47
Area: 1331930
Amount: 1.263960
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1330941
Amount: 1.263021
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:30:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

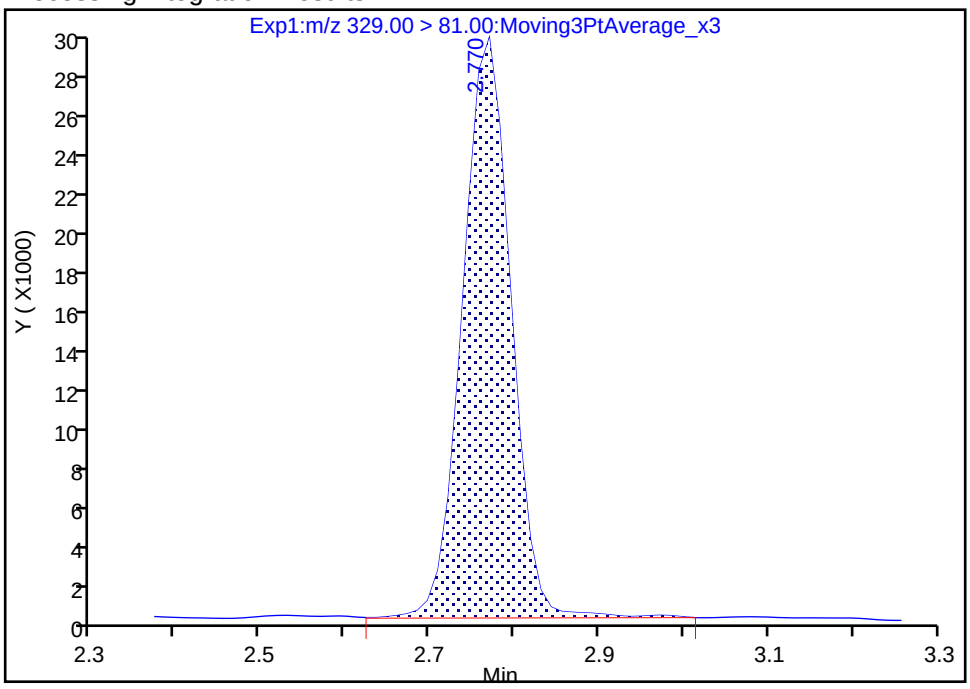
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Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

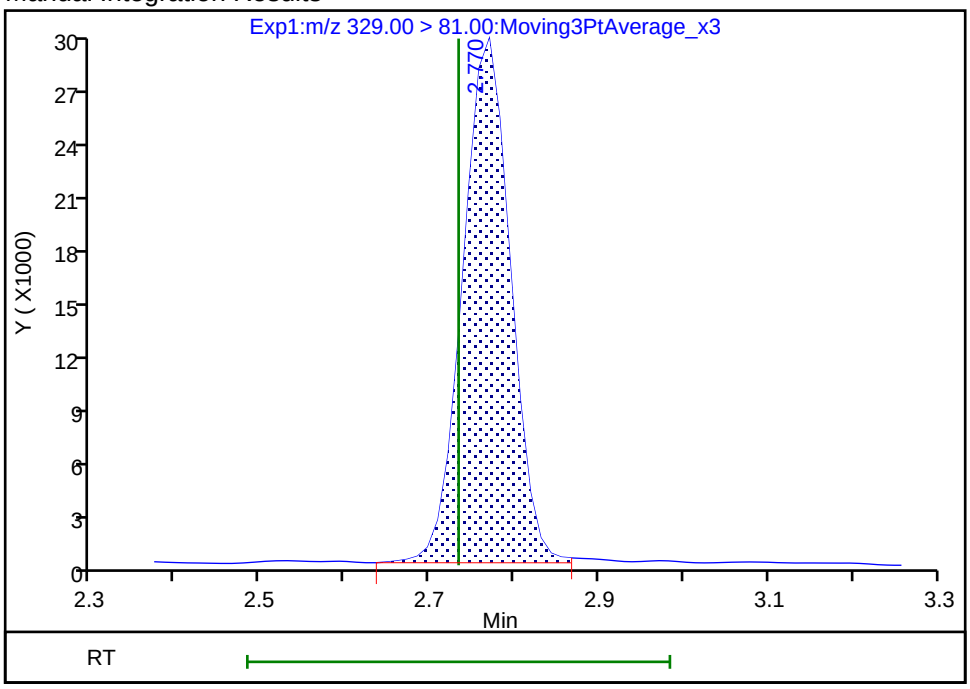
Processing Integration Results

RT: 2.77
Area: 118807
Amount: 1.364773
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 117390
Amount: 1.348495
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 08:44:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

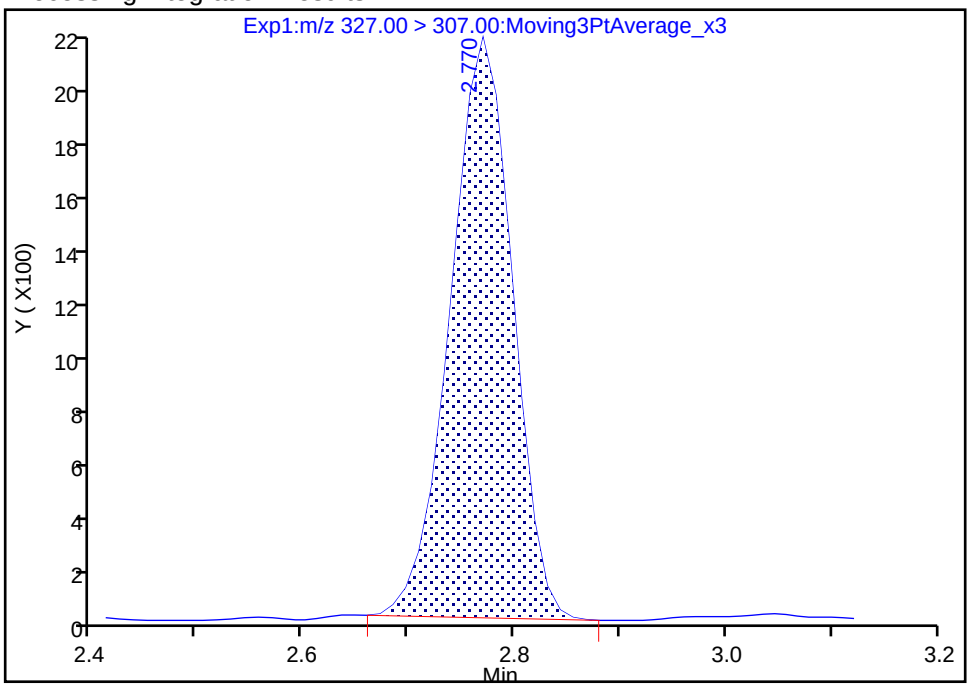
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

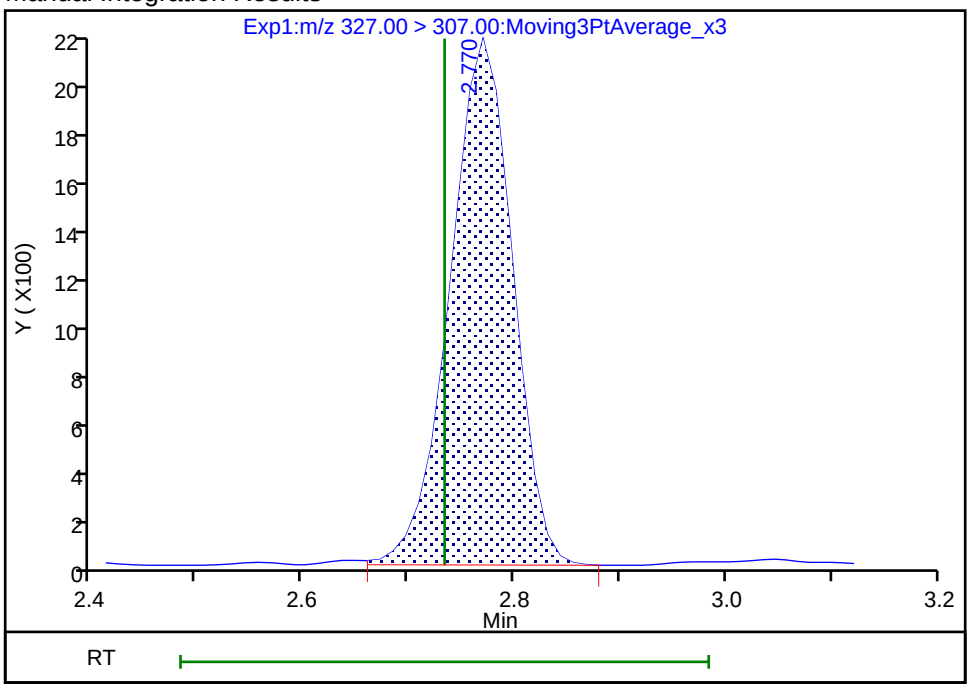
Processing Integration Results

RT: 2.77
Area: 8846
Amount: 0.045333
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 8958
Amount: 0.046204
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:33:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

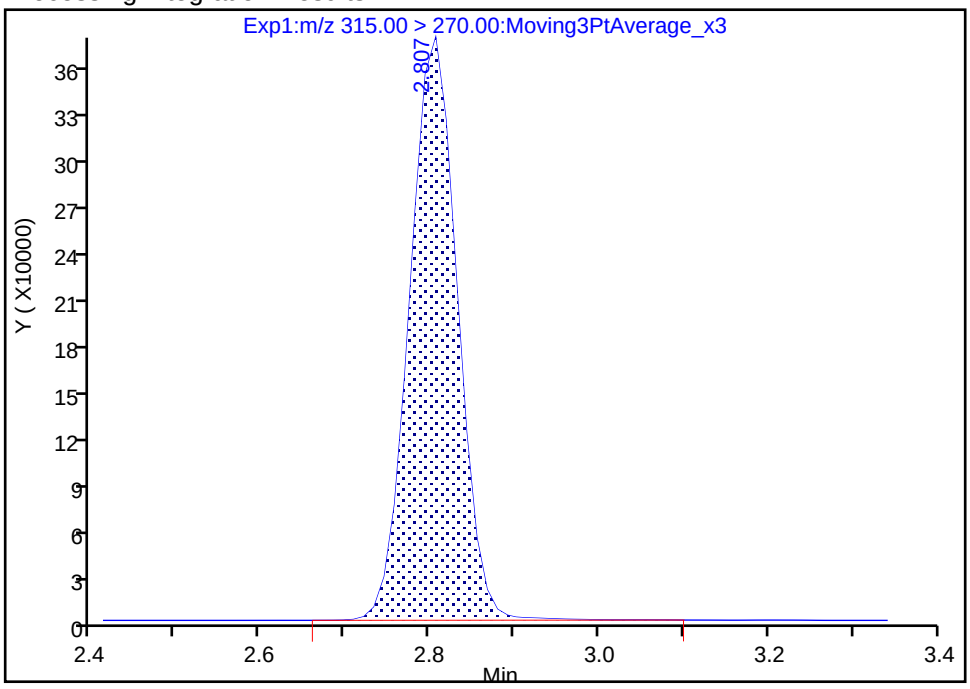
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

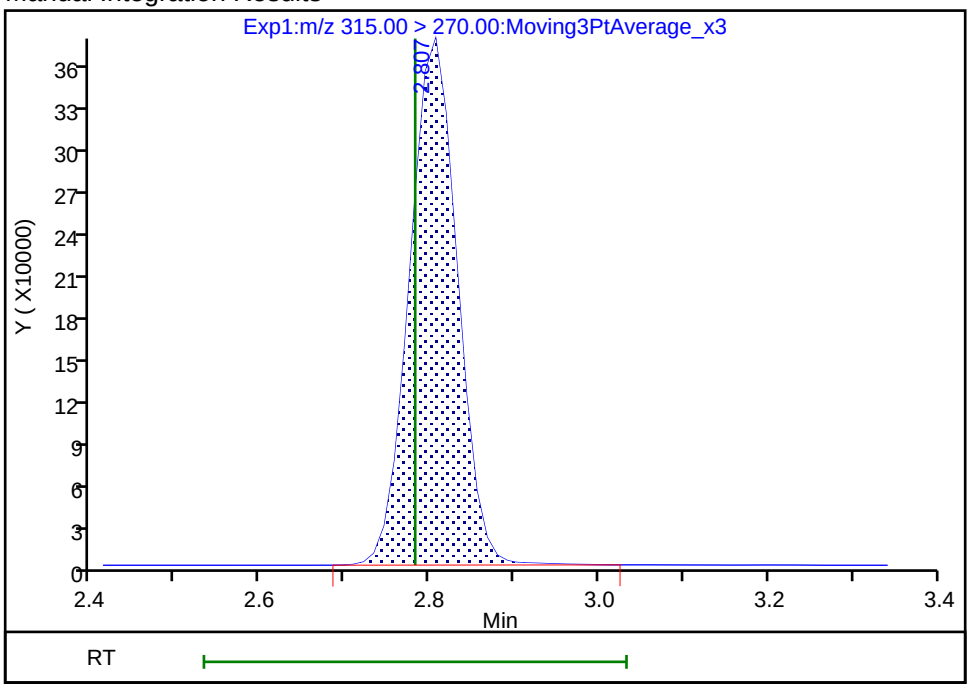
Processing Integration Results

RT: 2.81
Area: 1475602
Amount: 1.346767
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 1474154
Amount: 1.345446
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:31:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

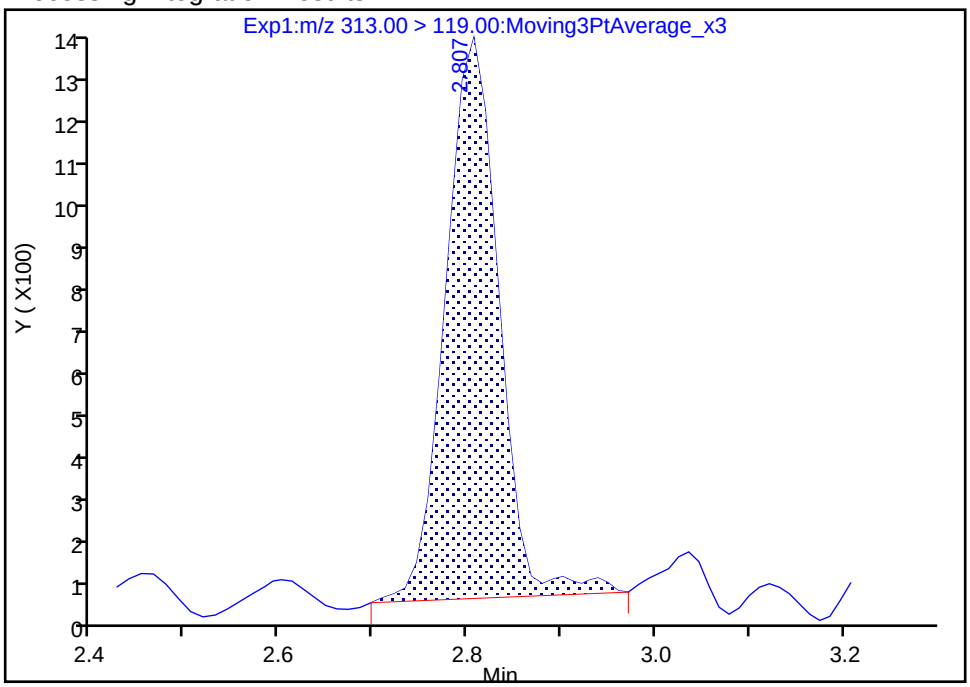
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Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

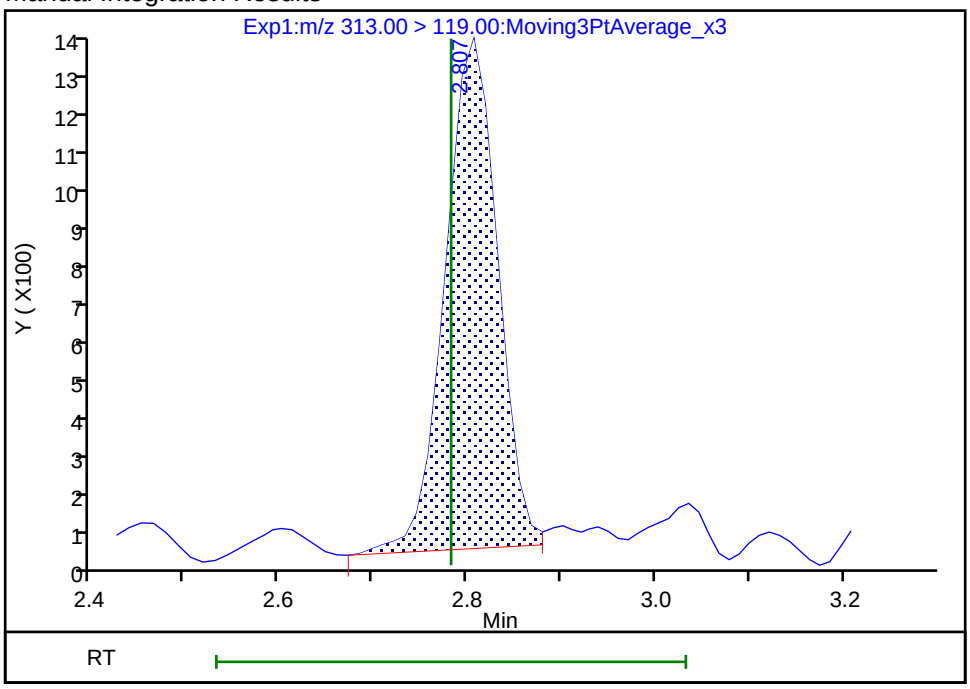
Processing Integration Results

RT: 2.81
Area: 5003
Amount: 0.053566
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 4958
Amount: 0.052709
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:33:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

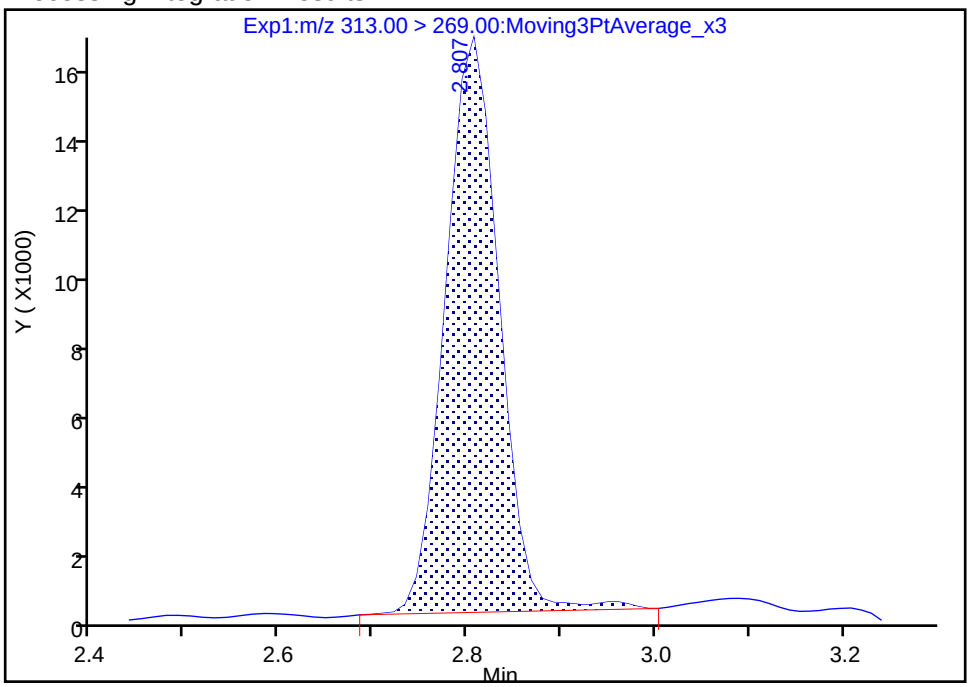
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Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

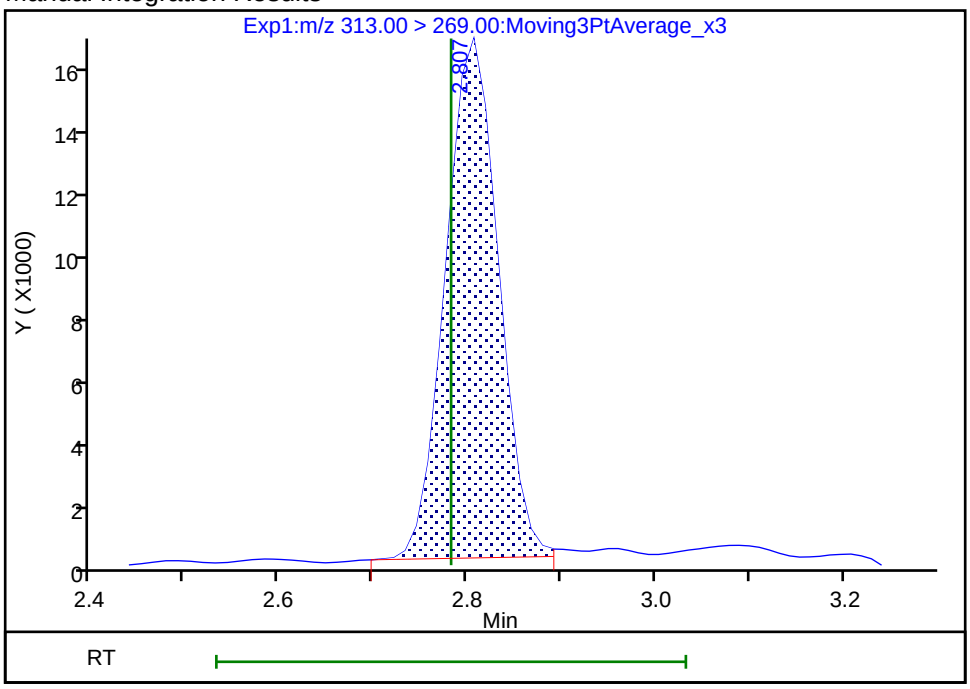
Processing Integration Results

RT: 2.81
Area: 63555
Amount: 0.053566
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 62538
Amount: 0.052709
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:34:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

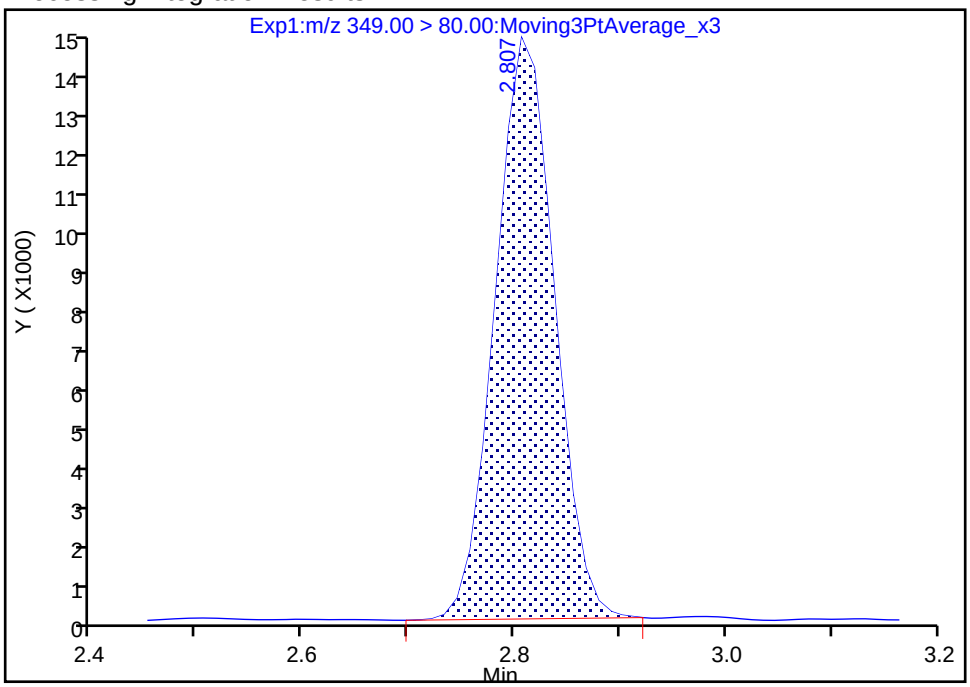
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

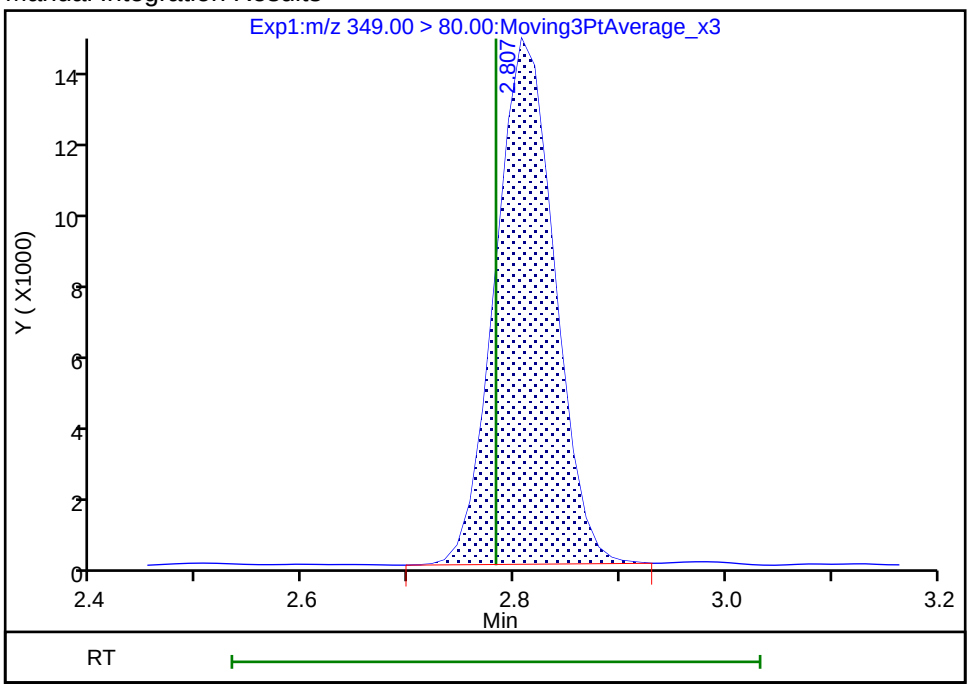
Processing Integration Results

RT: 2.81
Area: 54320
Amount: 0.048803
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 54438
Amount: 0.048909
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:34:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

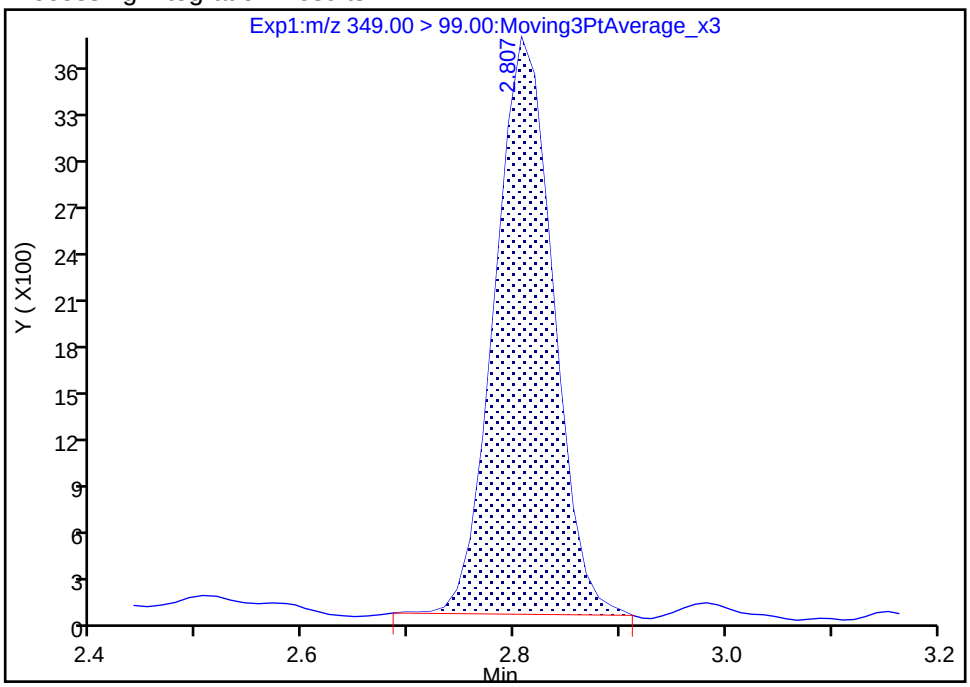
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

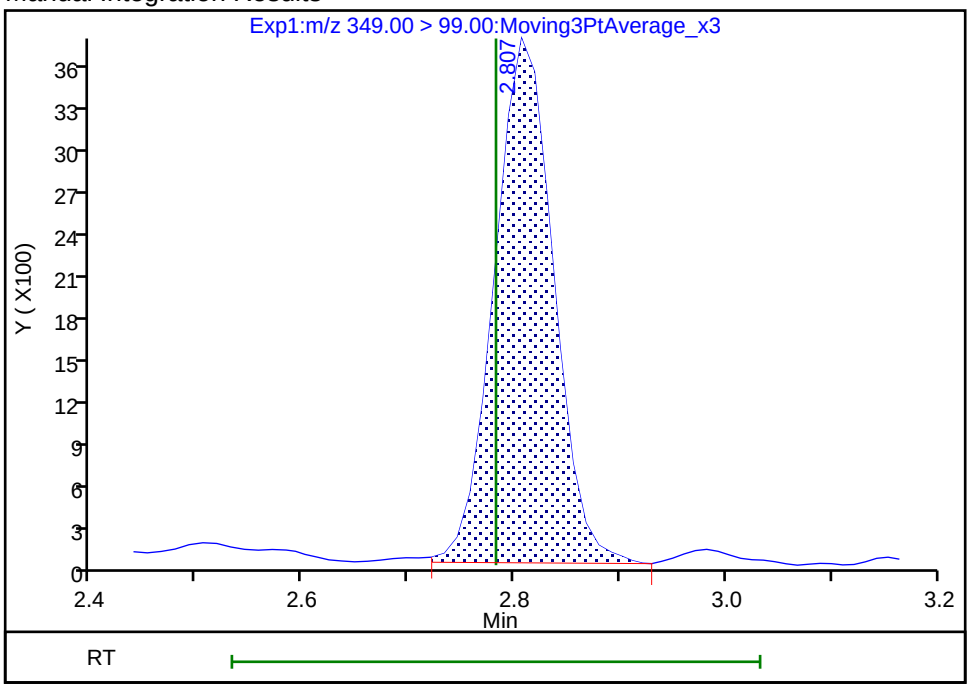
Processing Integration Results

RT: 2.81
Area: 14290
Amount: 0.048803
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 14532
Amount: 0.048909
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:34:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

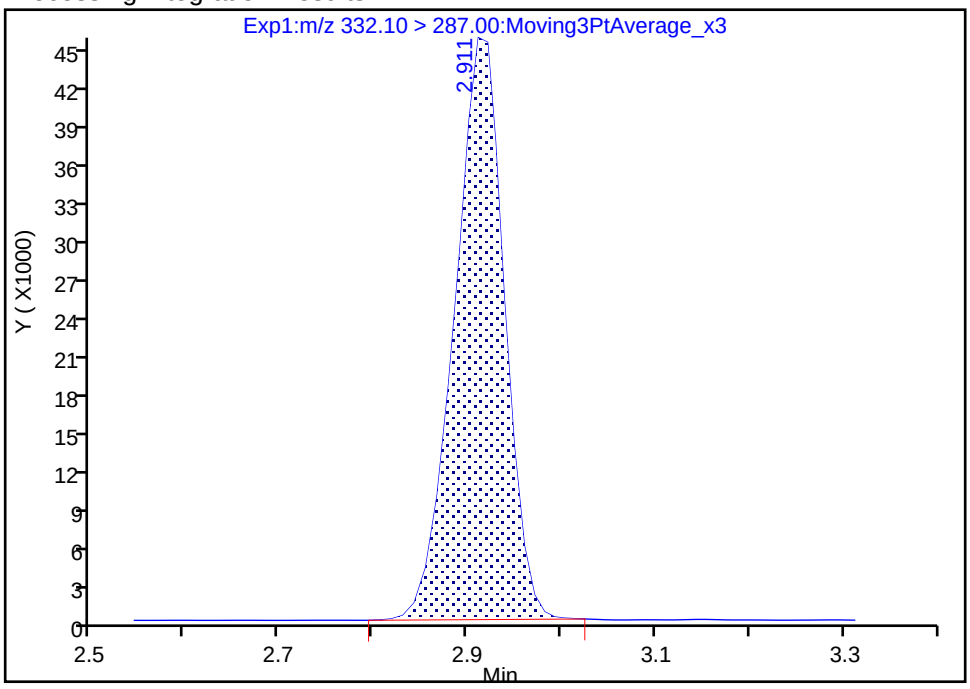
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

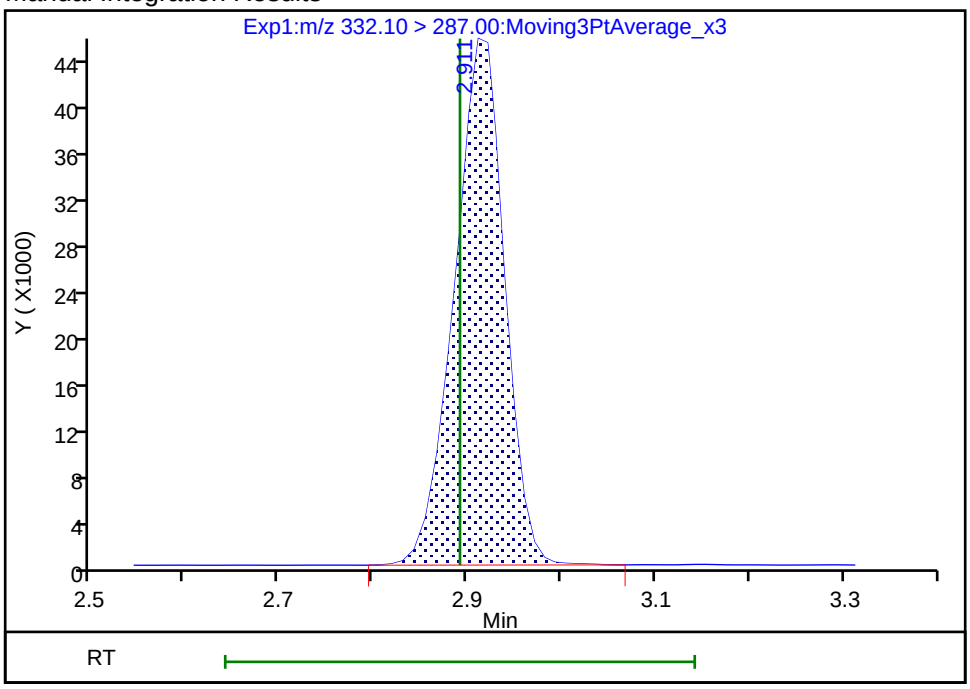
Processing Integration Results

RT: 2.91
Area: 168019
Amount: 1.419747
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 168662
Amount: 1.425180
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:31:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

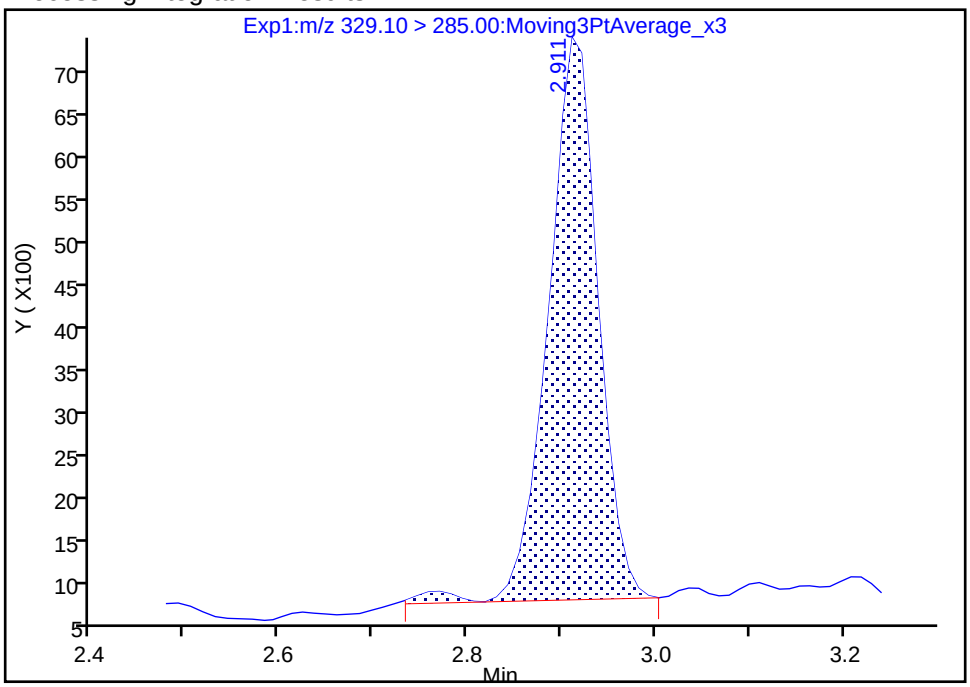
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

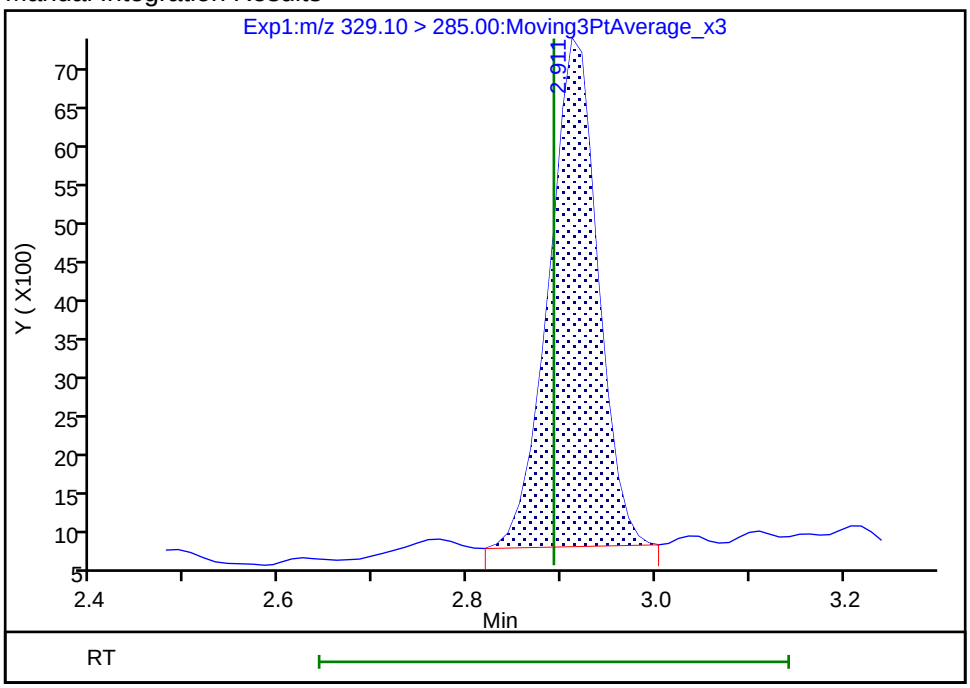
Processing Integration Results

RT: 2.91
Area: 24162
Amount: 0.108281
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 23769
Amount: 0.106520
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:34:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

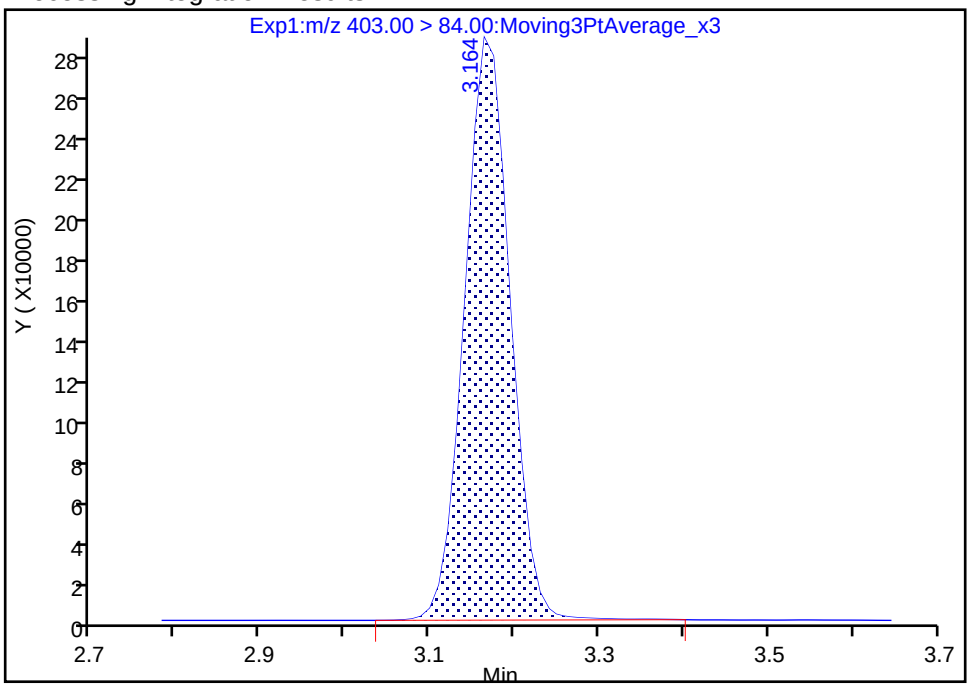
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

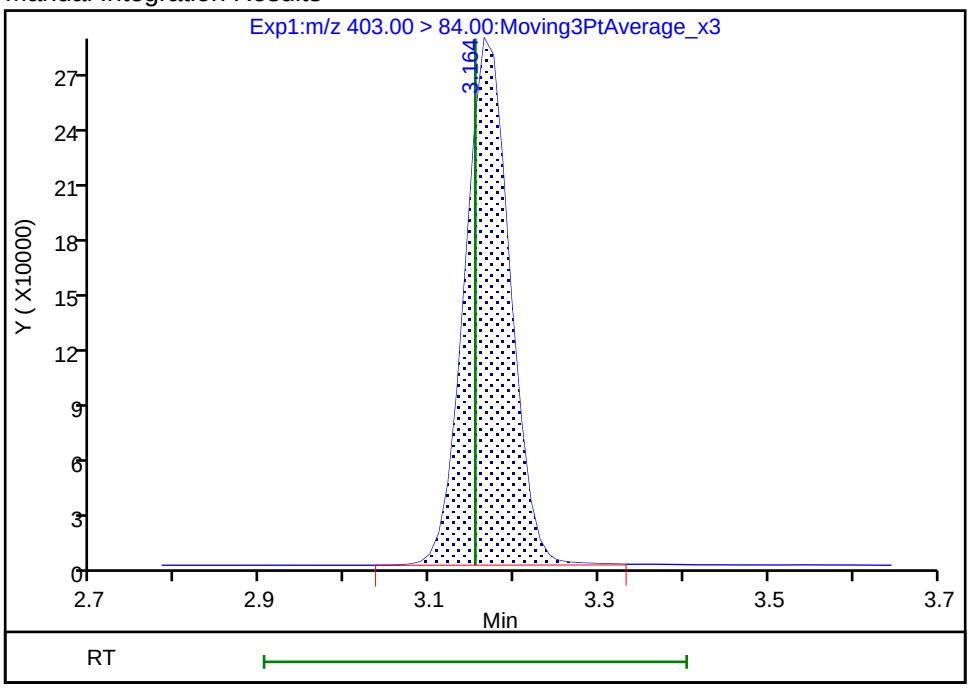
Processing Integration Results

RT: 3.16
Area: 1070748
Amount: 1.279062
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 1070803
Amount: 1.279128
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:31:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

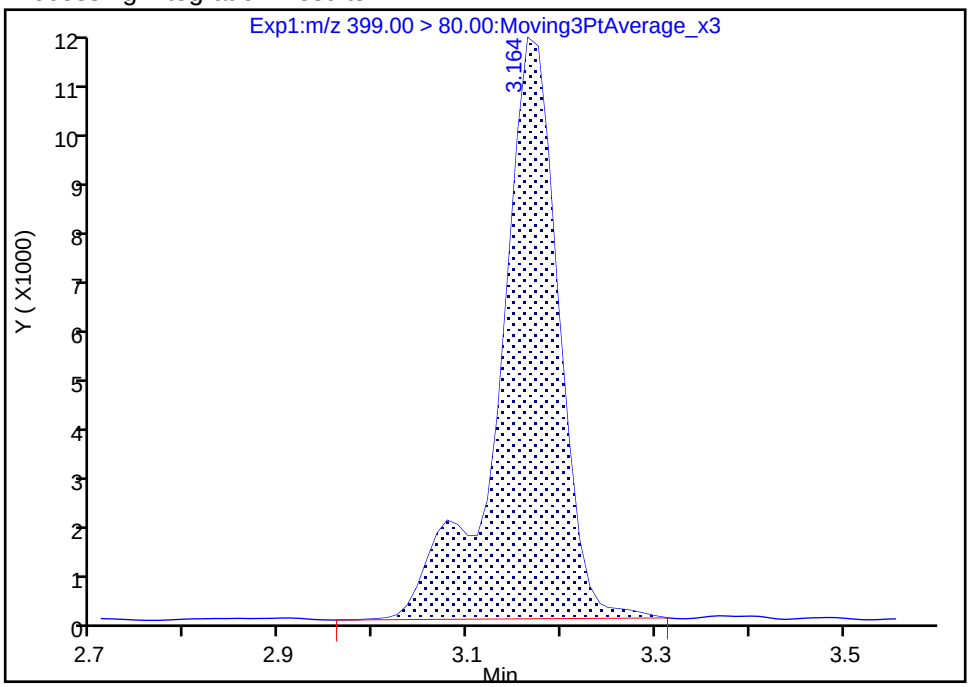
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

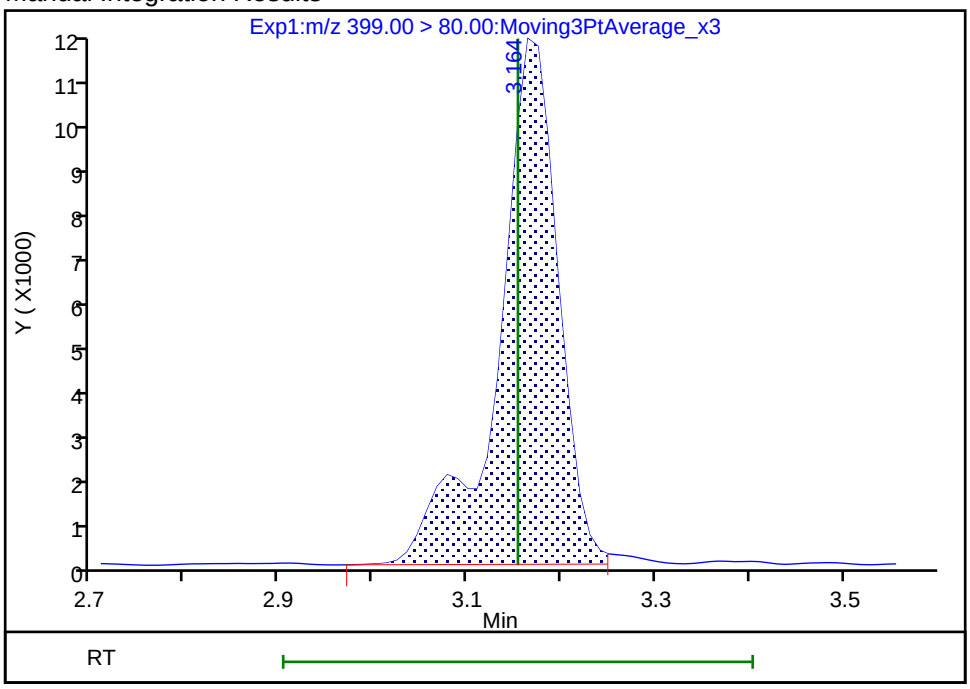
Processing Integration Results

RT: 3.16
Area: 51376
Amount: 0.049034
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 51062
Amount: 0.048735
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:34:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

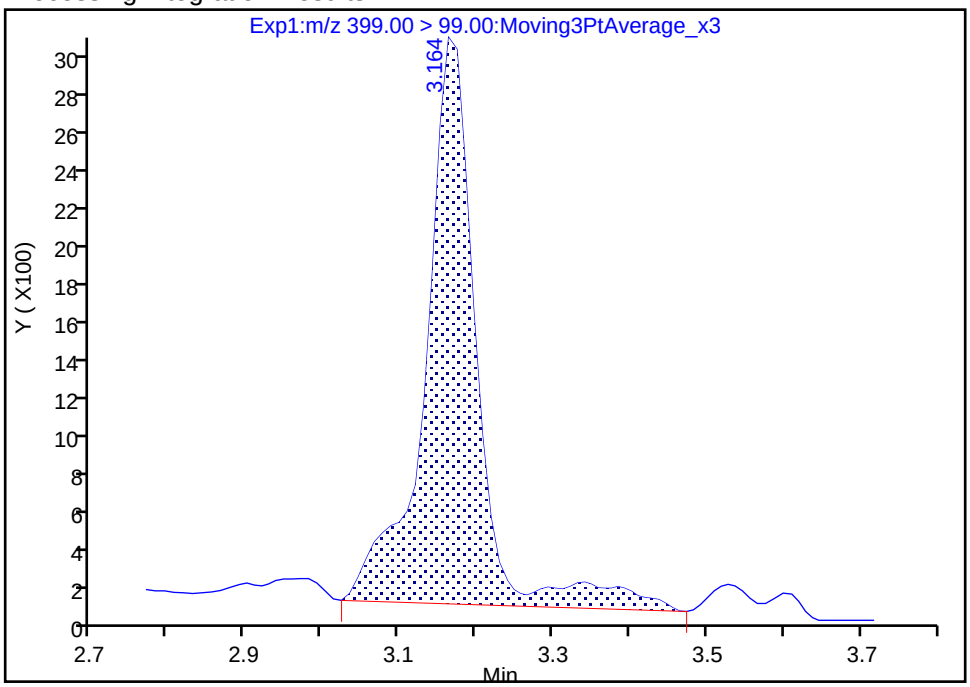
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

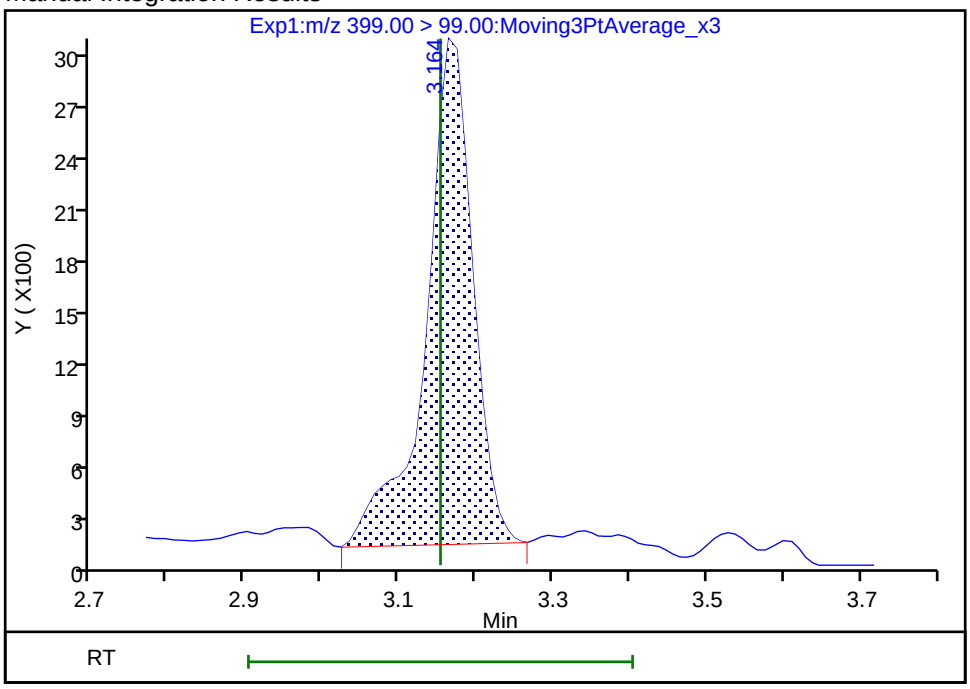
Processing Integration Results

RT: 3.16
Area: 13875
Amount: 0.049034
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 12392
Amount: 0.048735
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:34:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

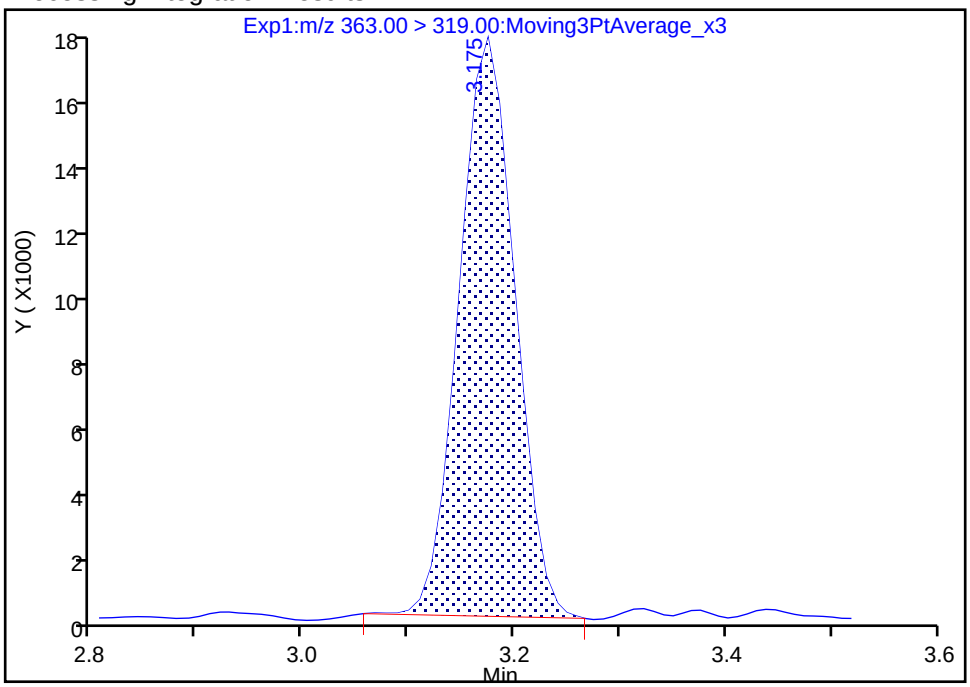
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

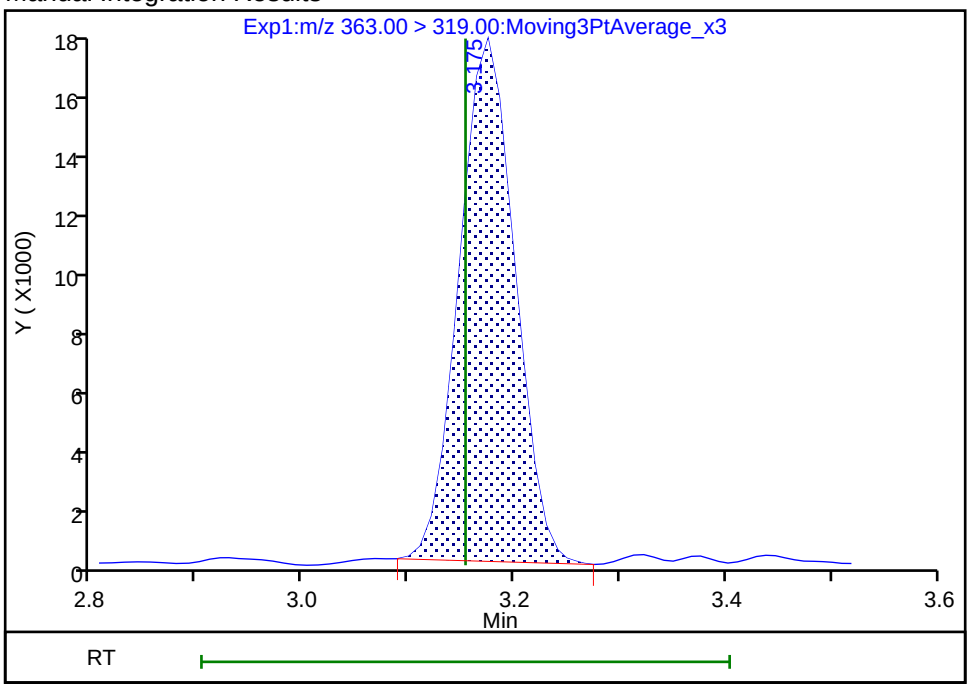
Processing Integration Results

RT: 3.17
Area: 61127
Amount: 0.053766
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 61045
Amount: 0.053694
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:34:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

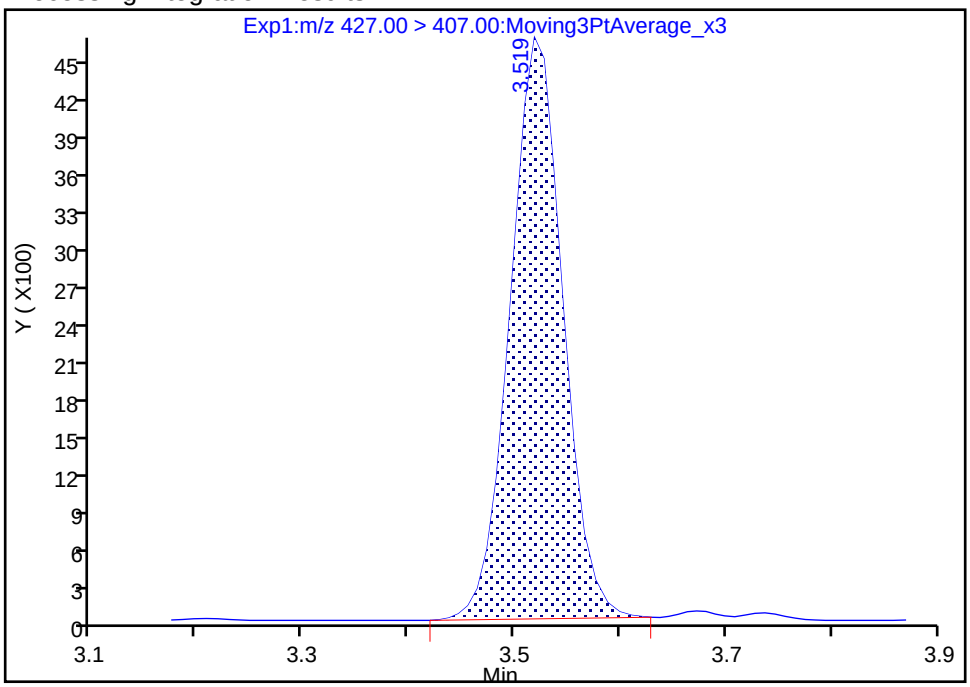
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

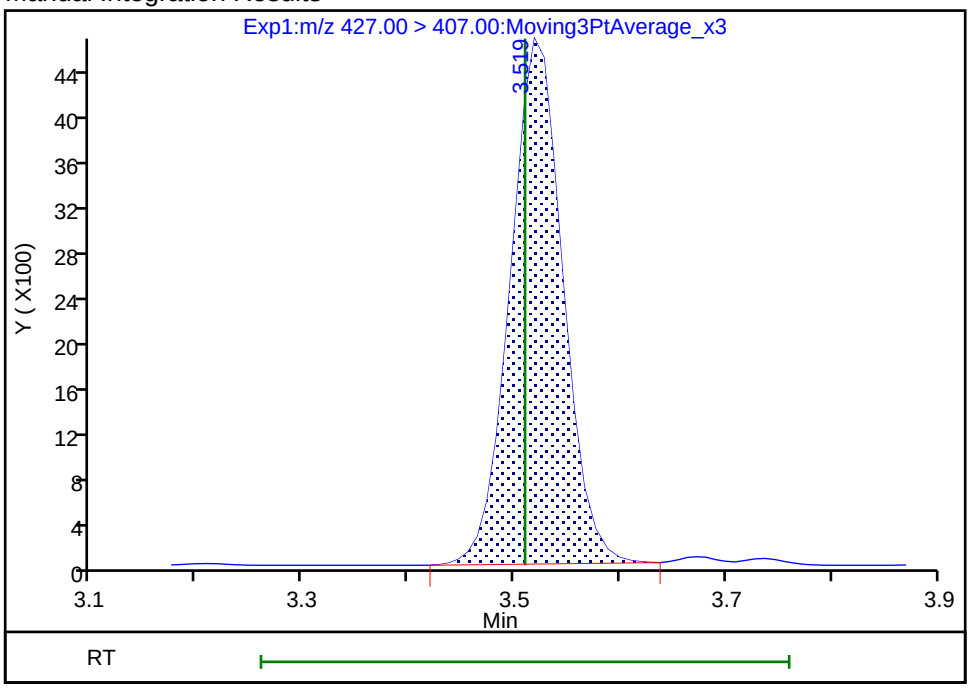
Processing Integration Results

RT: 3.52
Area: 15977
Amount: 0.115801
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 15996
Amount: 0.115939
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:35:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

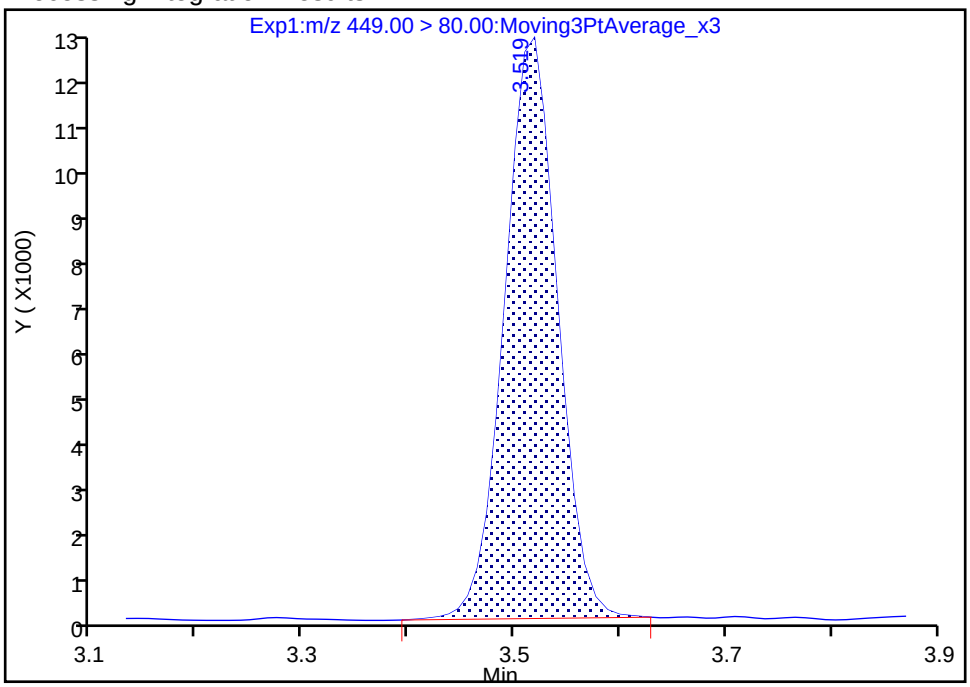
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

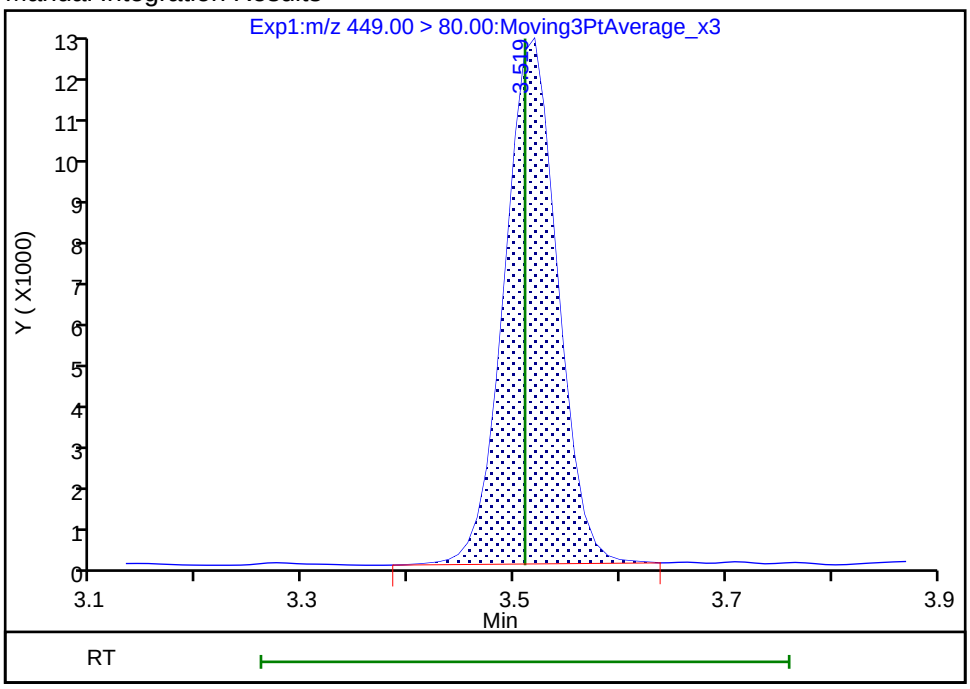
Processing Integration Results

RT: 3.52
Area: 41637
Amount: 0.050637
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 41754
Amount: 0.050779
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:35:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

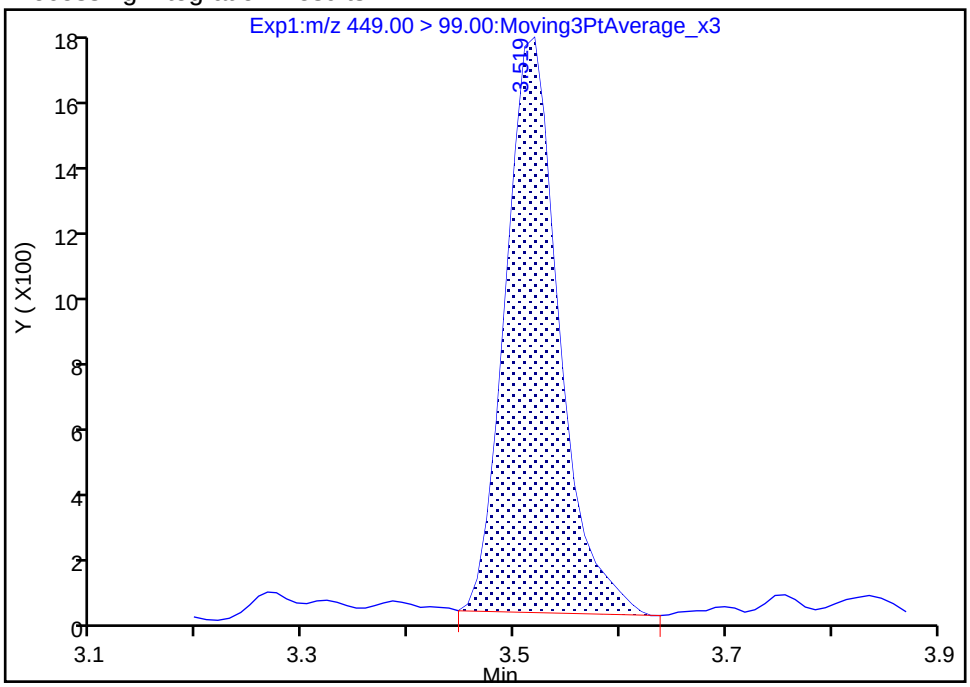
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

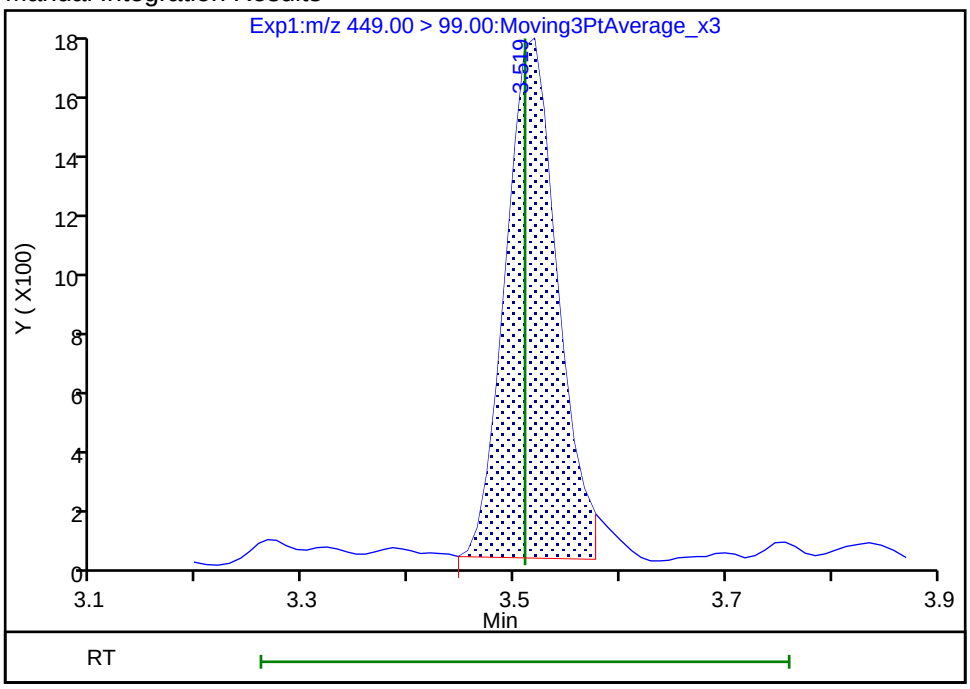
Processing Integration Results

RT: 3.52
Area: 5939
Amount: 0.050637
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 5745
Amount: 0.050779
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 08:44:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

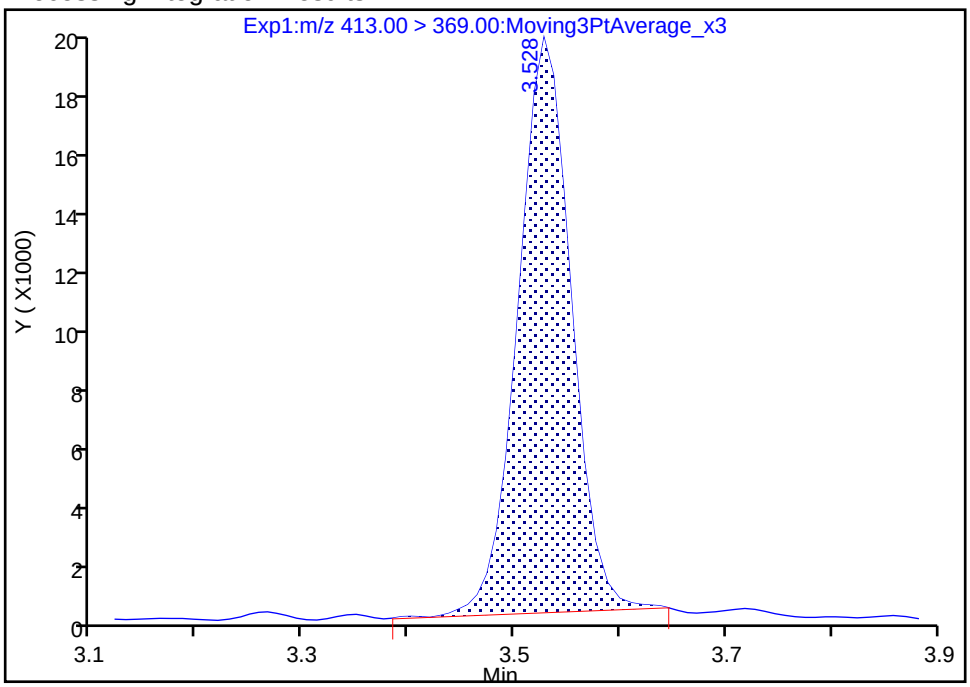
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

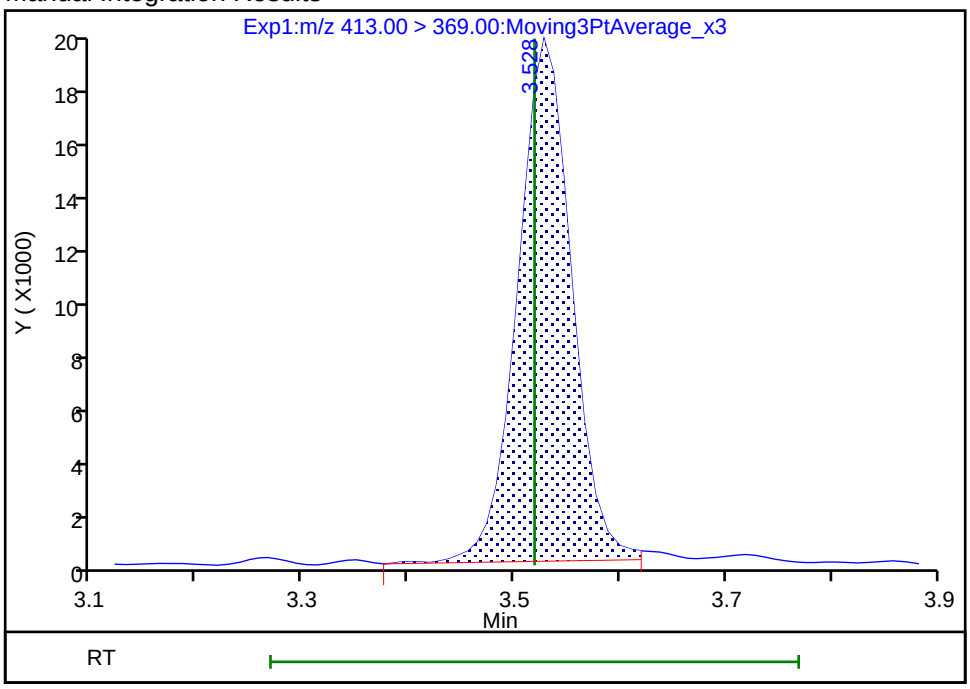
Processing Integration Results

RT: 3.53
Area: 65272
Amount: 0.051541
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 66303
Amount: 0.052355
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:35:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

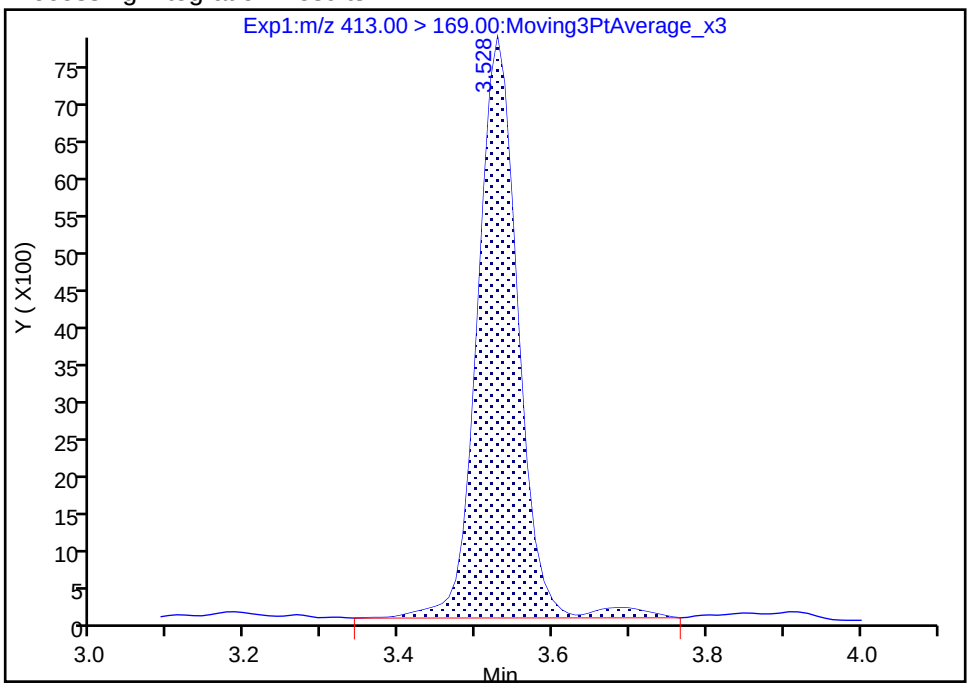
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

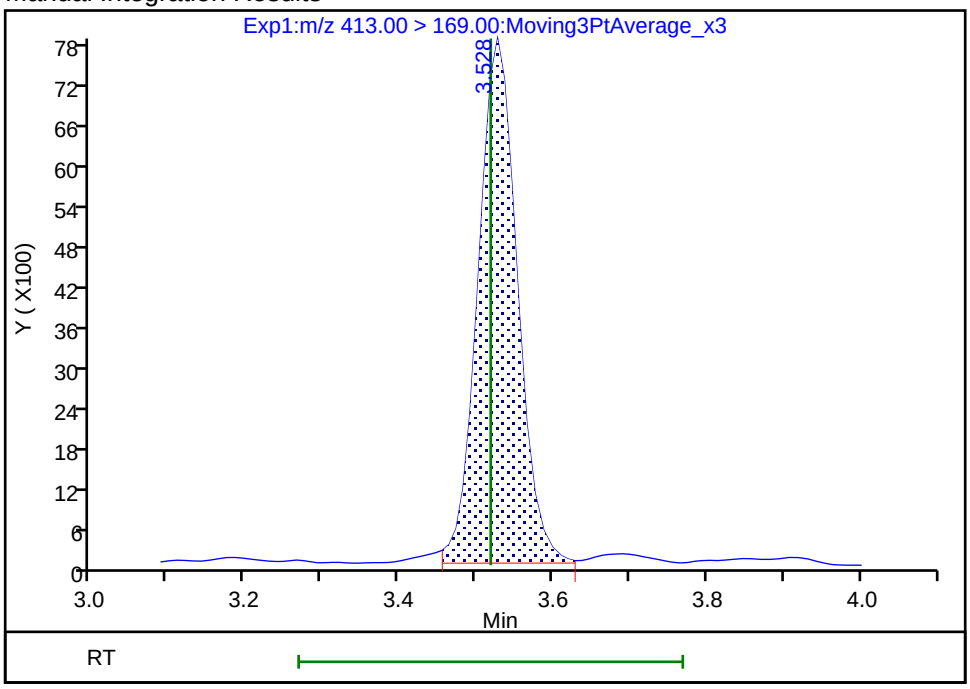
Processing Integration Results

RT: 3.53
Area: 28895
Amount: 0.051541
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 27859
Amount: 0.052355
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 08:45:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

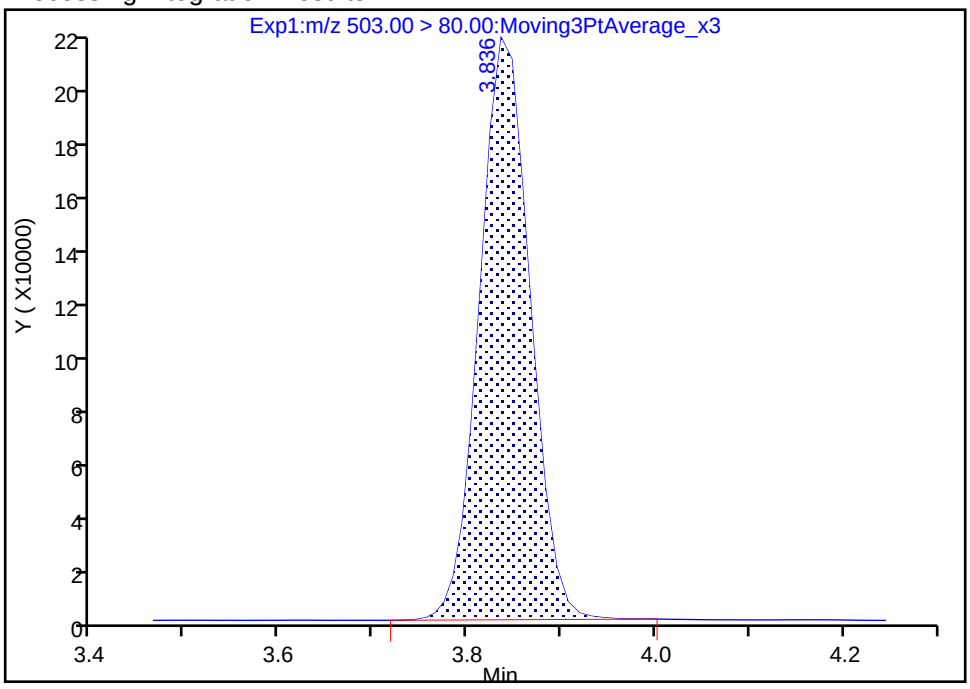
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

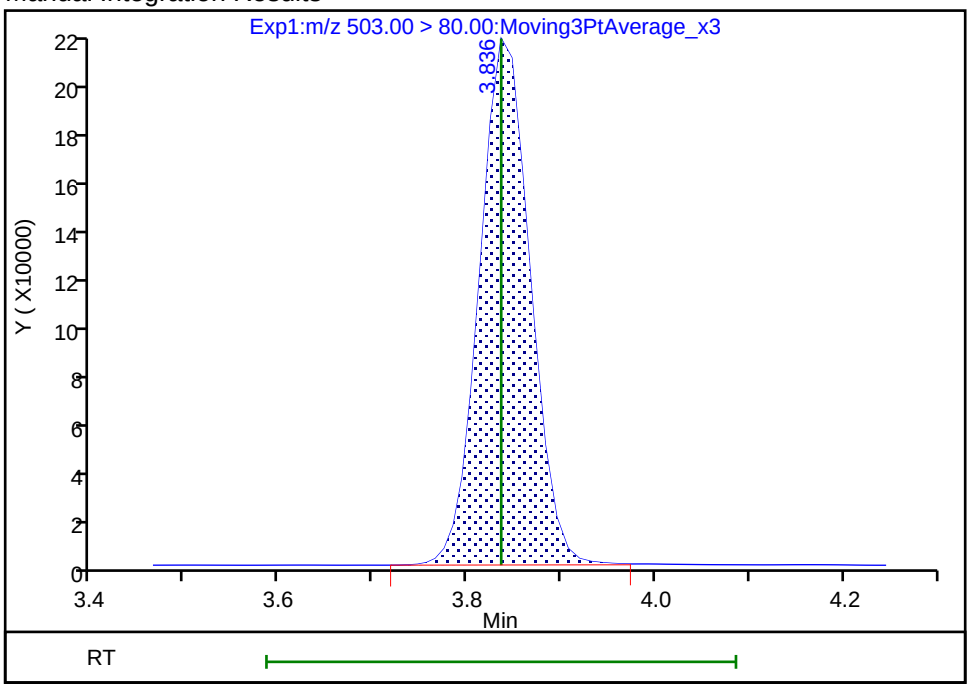
Processing Integration Results

RT: 3.84
Area: 787271
Amount: 1.288721
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 789090
Amount: 1.291699
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:32:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

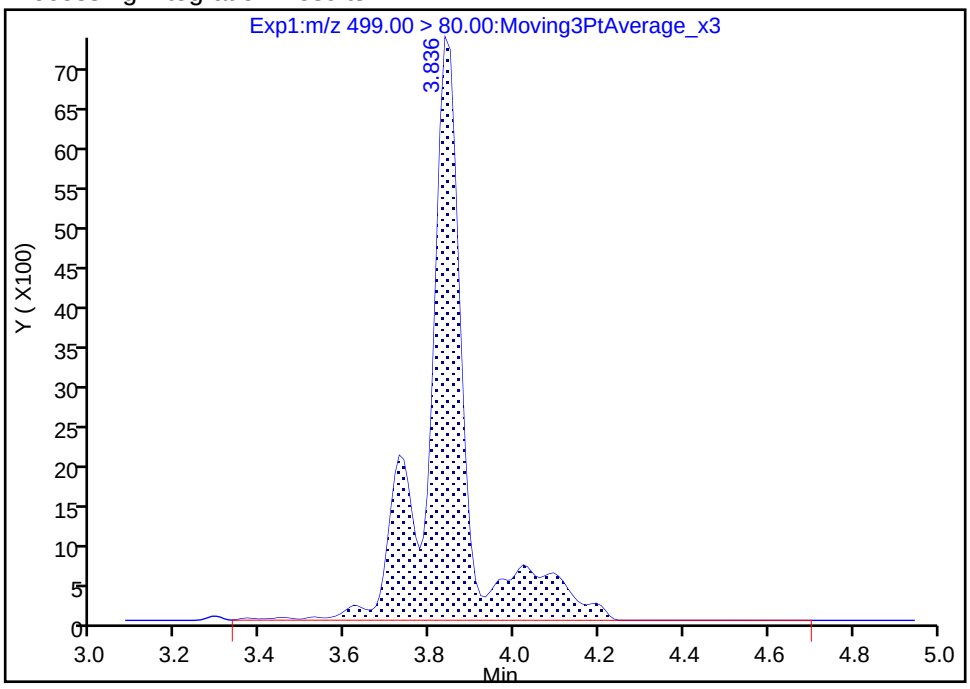
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

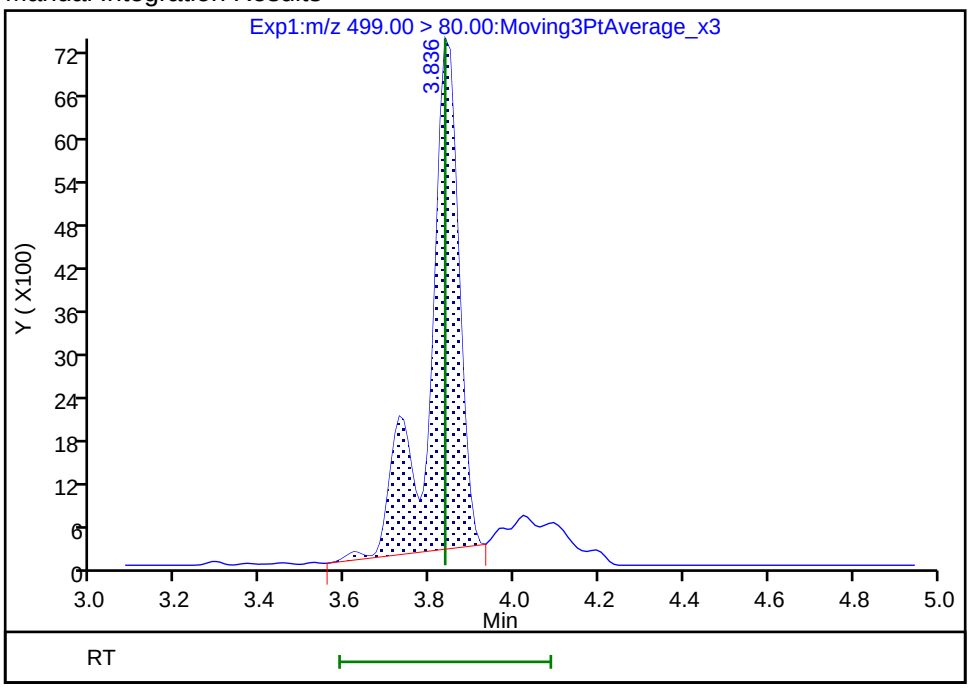
Processing Integration Results

RT: 3.84
Area: 46214
Amount: 0.062450
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 34959
Amount: 0.047241
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:35:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

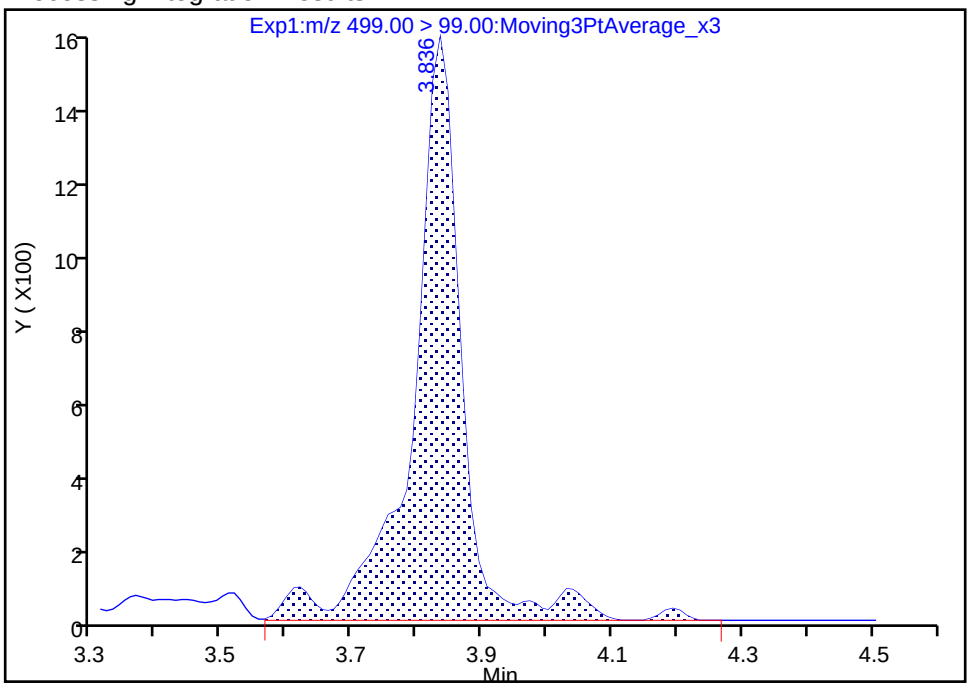
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

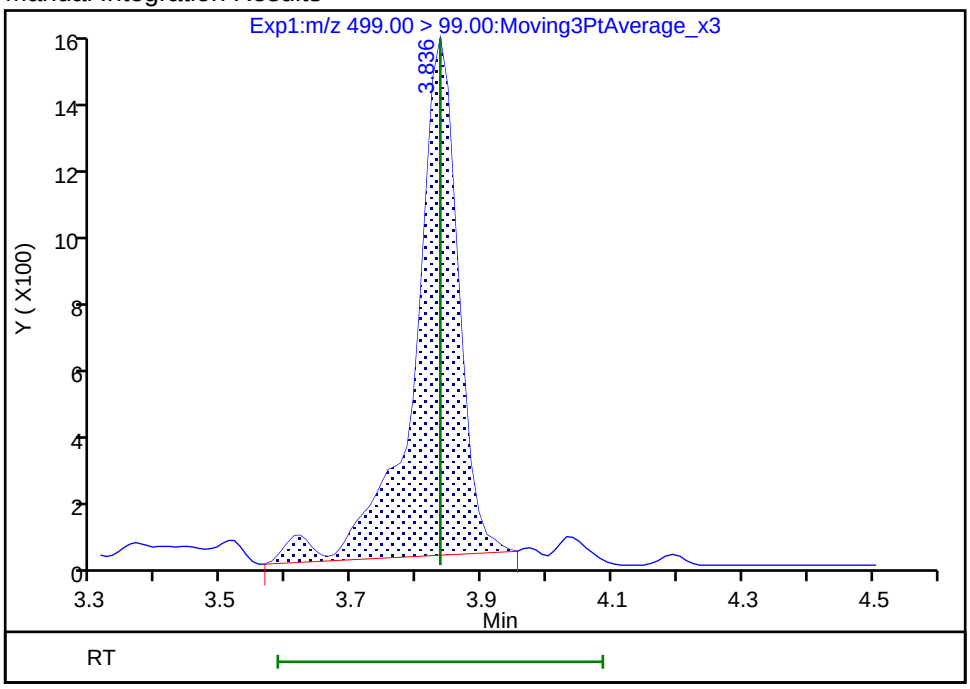
Processing Integration Results

RT: 3.84
Area: 8000
Amount: 0.062450
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 7027
Amount: 0.047241
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:35:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

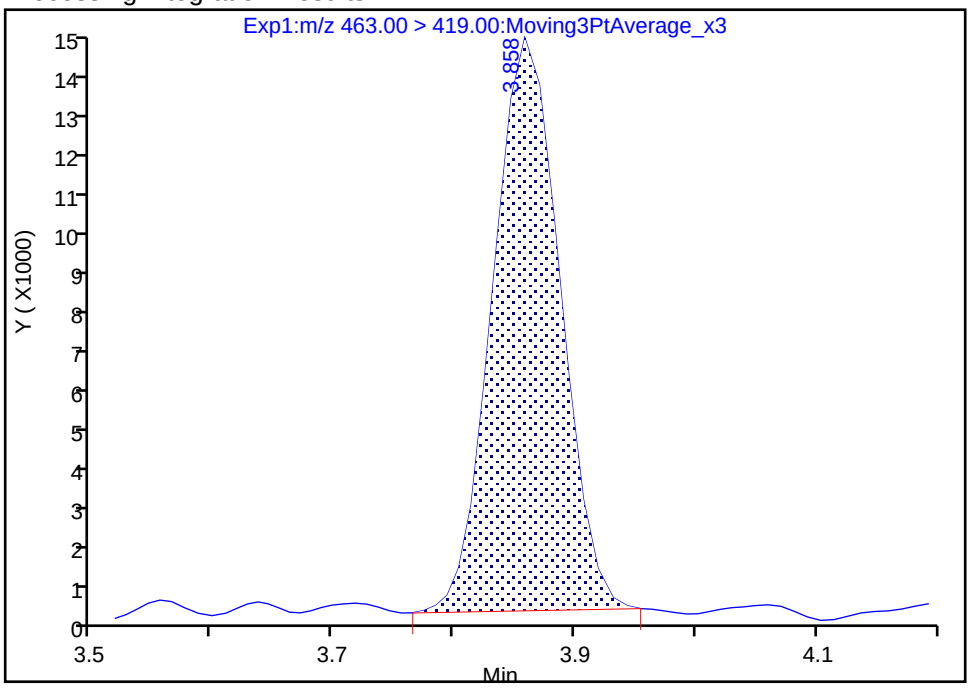
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

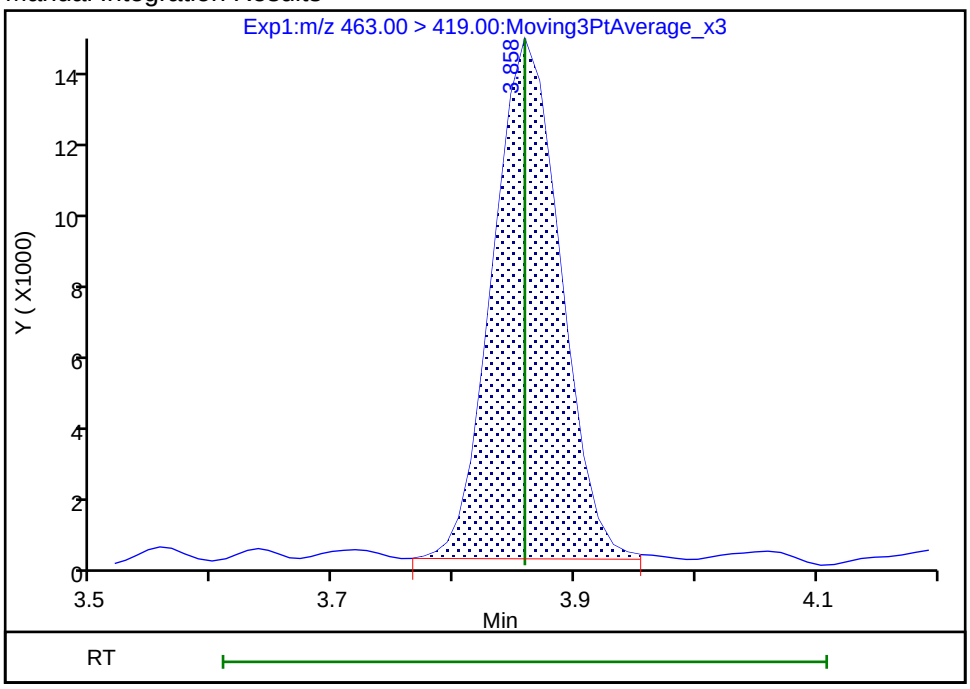
Processing Integration Results

RT: 3.86
Area: 55022
Amount: 0.051625
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 55716
Amount: 0.052276
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:36:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

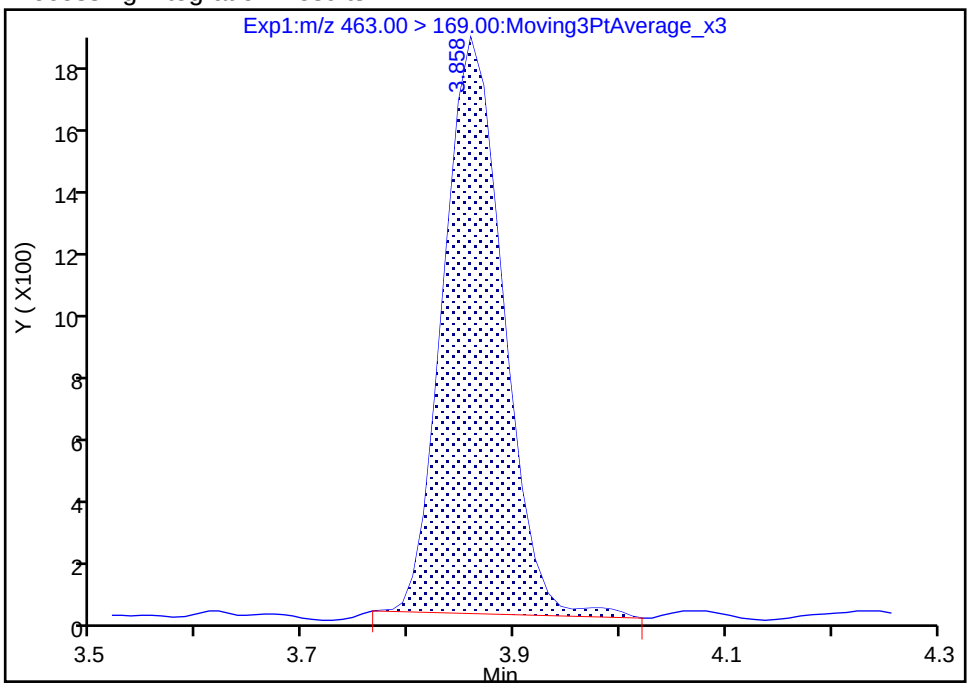
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Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

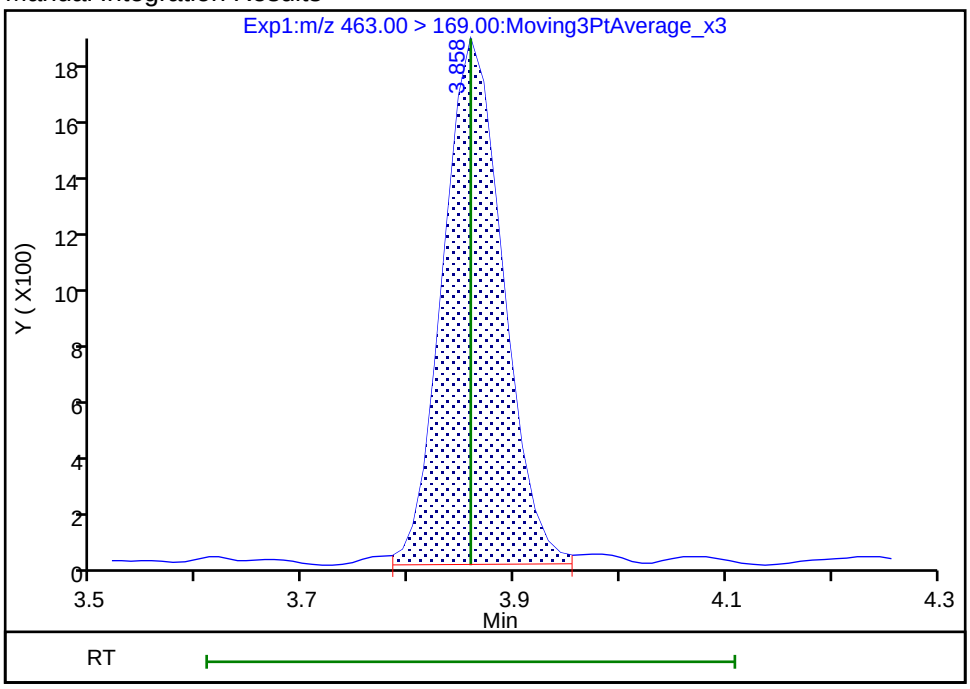
Processing Integration Results

RT: 3.86
Area: 7259
Amount: 0.051625
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 7355
Amount: 0.052276
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:36:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

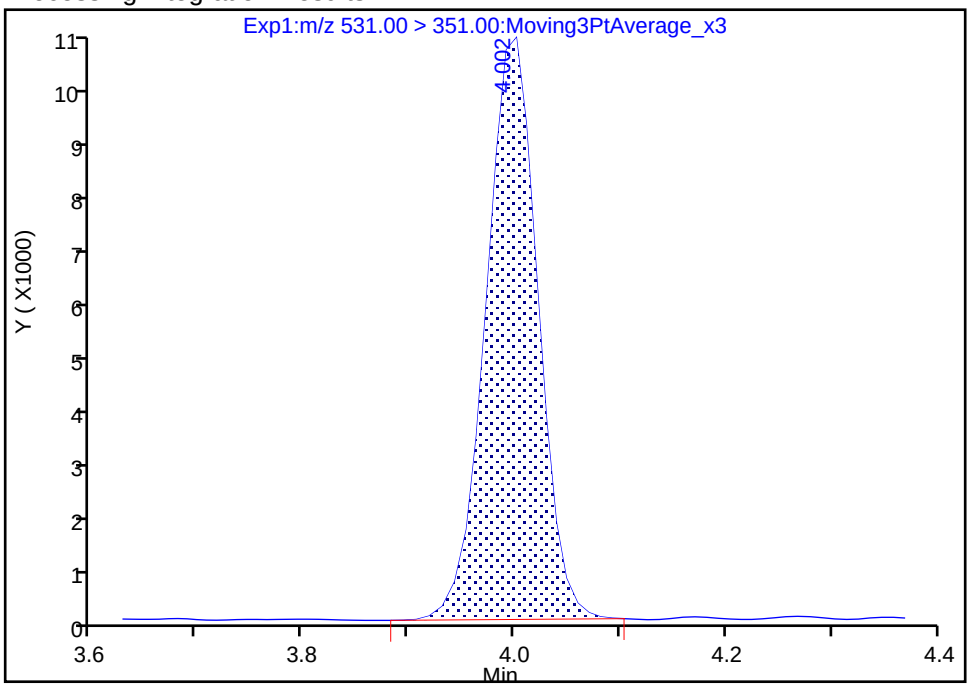
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Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

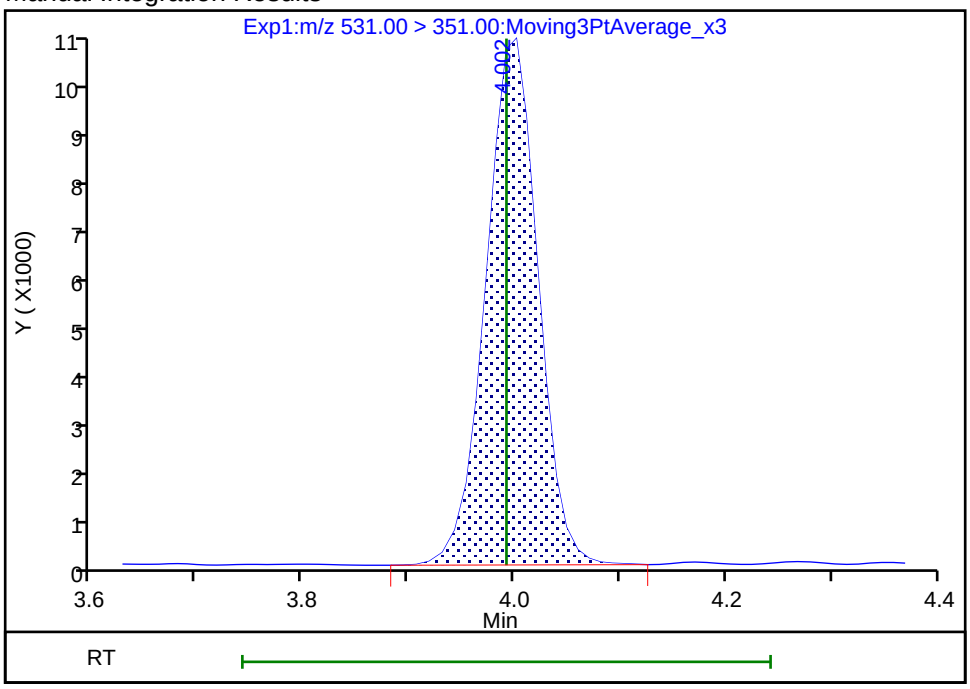
Processing Integration Results

RT: 4.00
Area: 35690
Amount: 0.044104
Amount Units: ng/ml



Manual Integration Results

RT: 4.00
Area: 35837
Amount: 0.044286
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:36:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

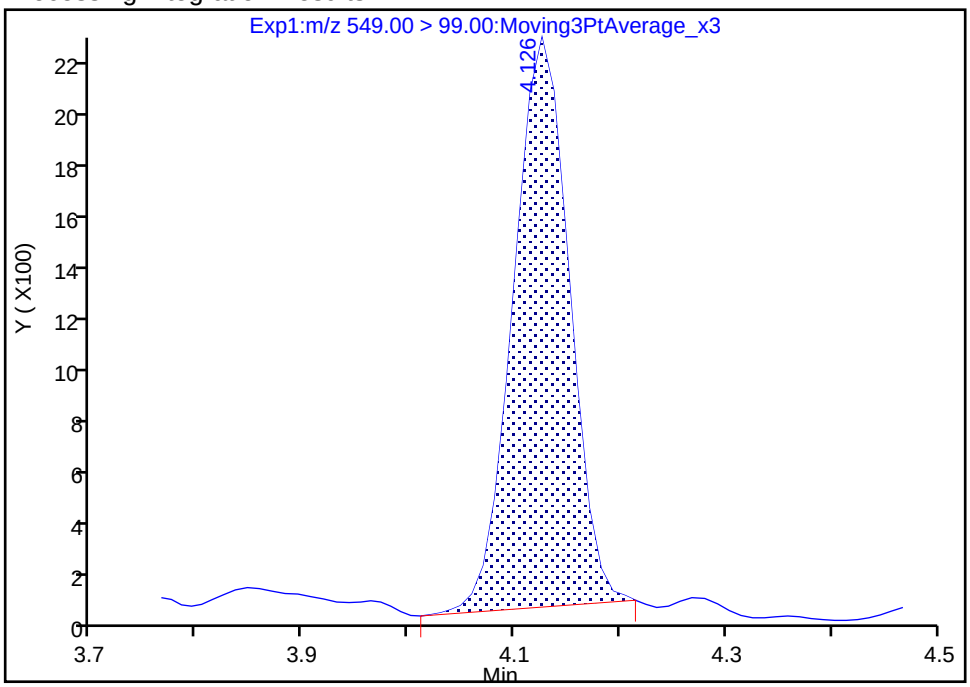
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Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

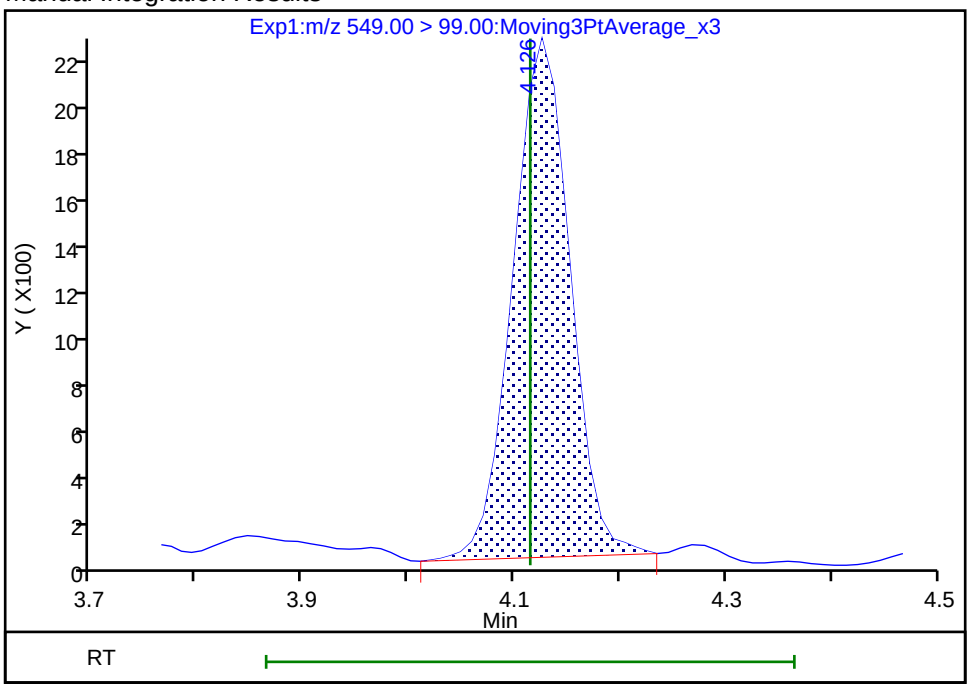
Processing Integration Results

RT: 4.13
Area: 8140
Amount: 0.049001
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 8346
Amount: 0.049001
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:36:34

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

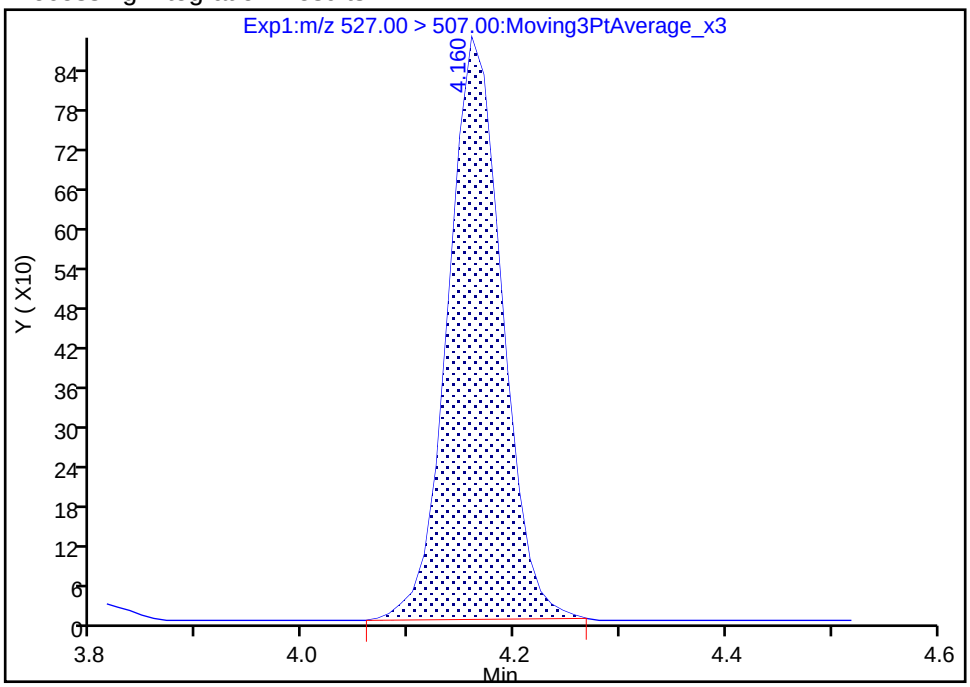
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Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

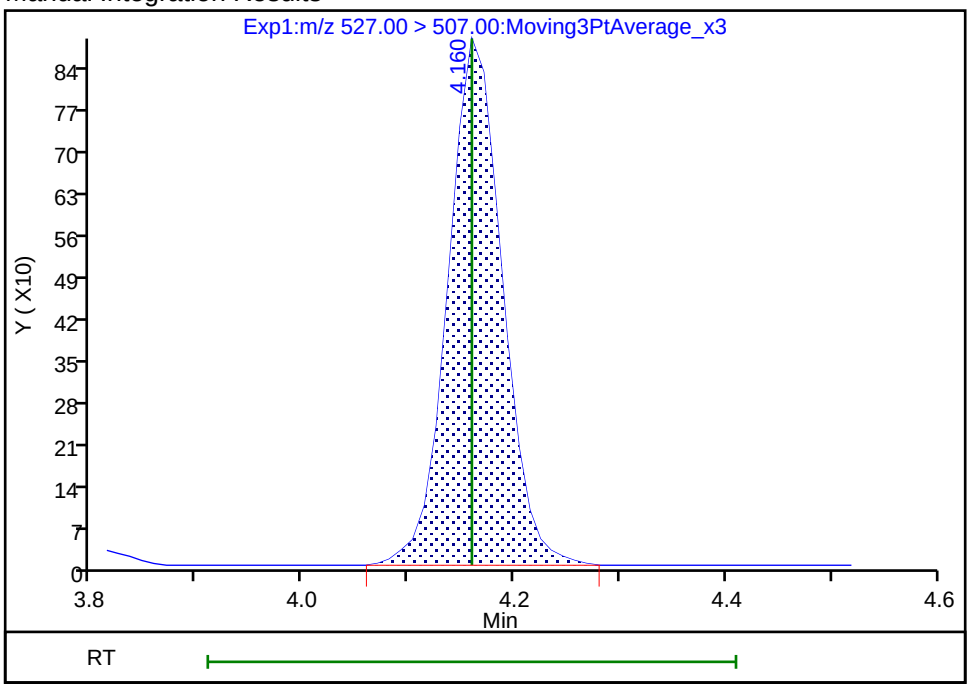
Processing Integration Results

RT: 4.16
Area: 3132
Amount: 0.040130
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 3152
Amount: 0.040386
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:36:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

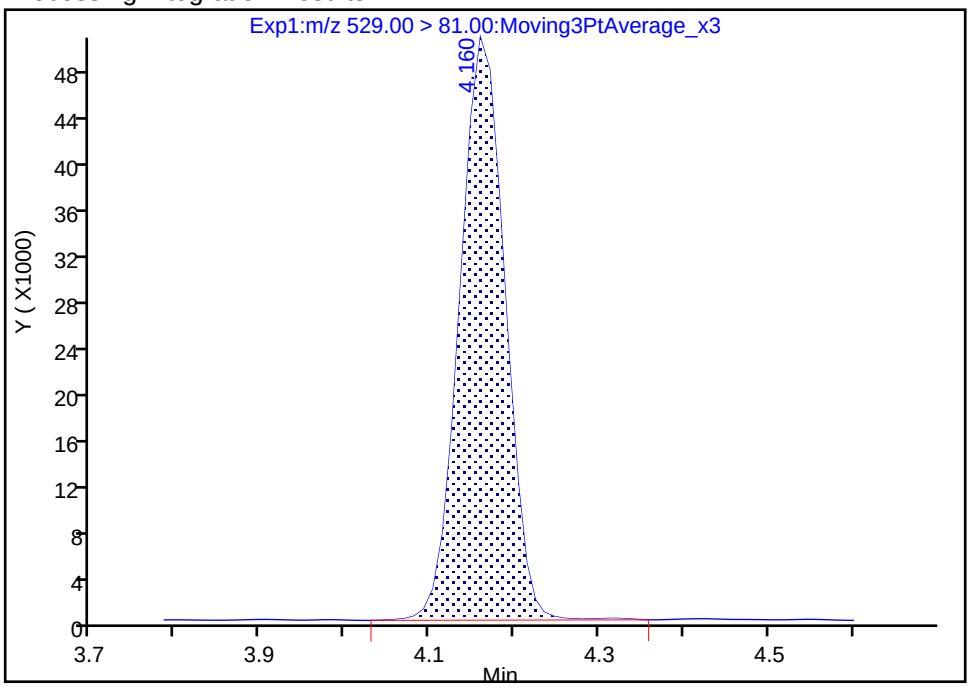
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Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

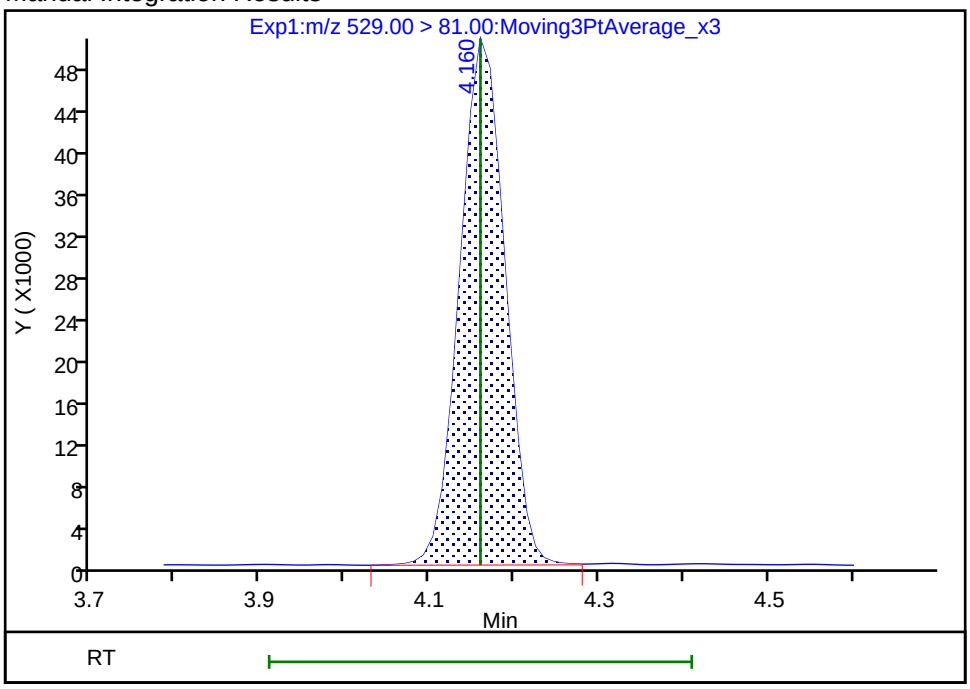
Processing Integration Results

RT: 4.16
Area: 187987
Amount: 1.359582
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 187585
Amount: 1.356674
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:32:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

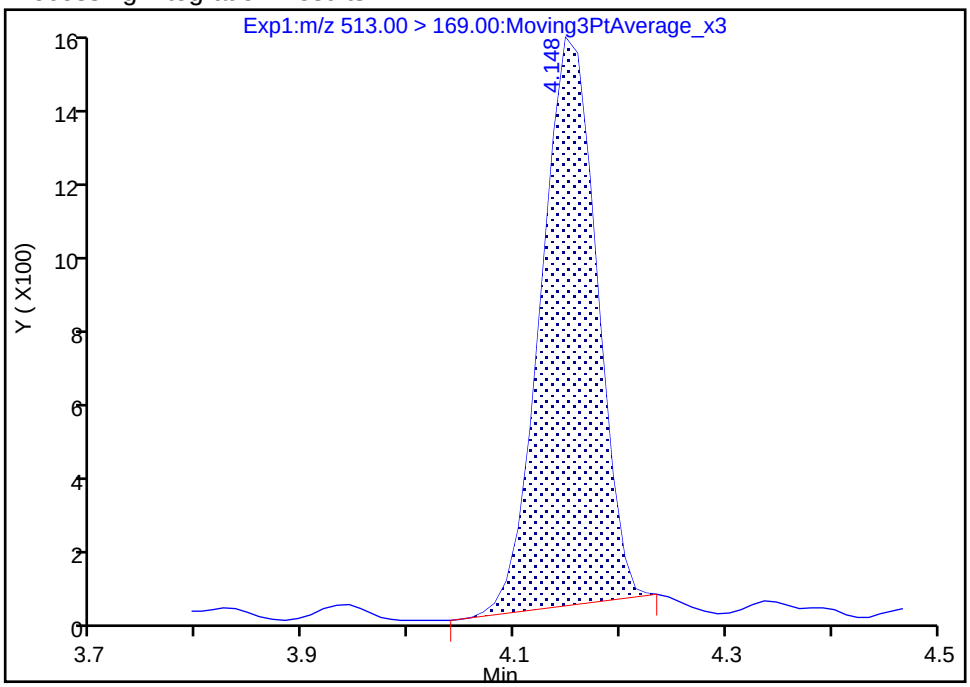
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Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

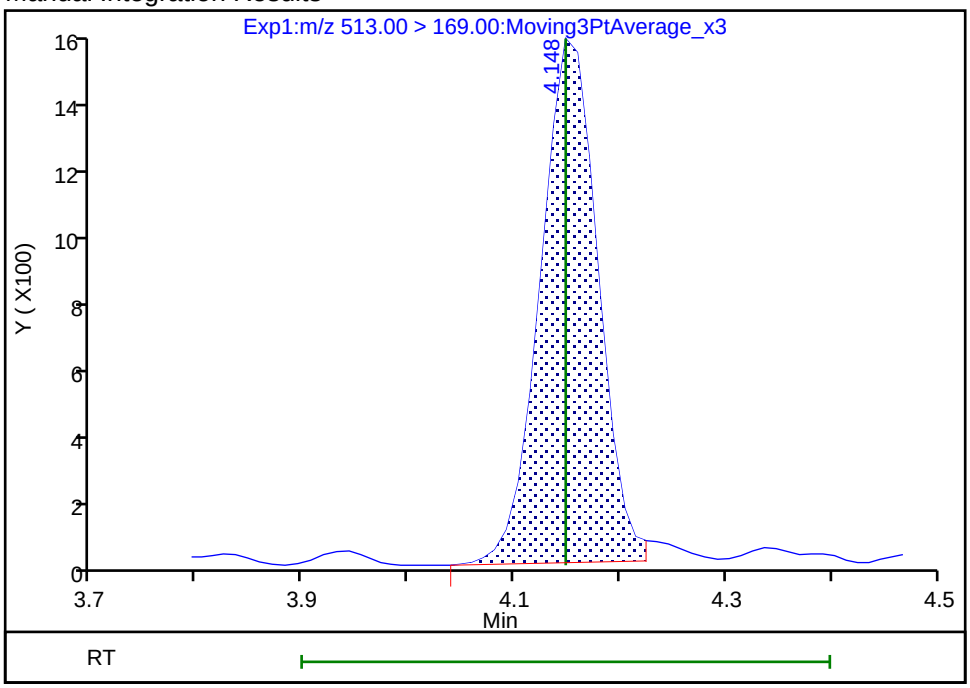
Processing Integration Results

RT: 4.15
Area: 5665
Amount: 0.052377
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 5964
Amount: 0.052377
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:36:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

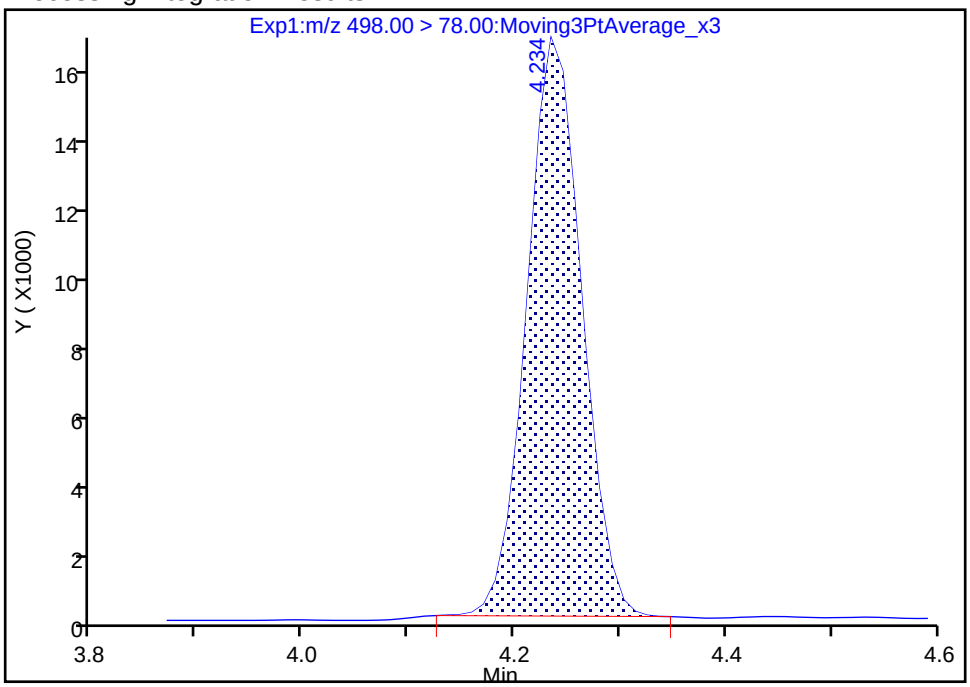
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Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

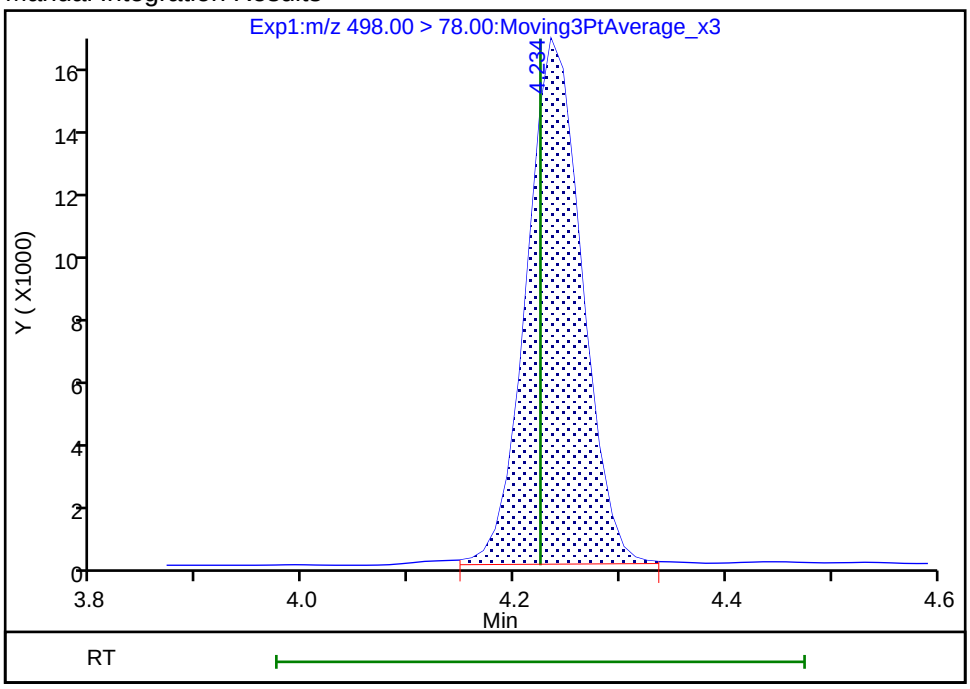
Processing Integration Results

RT: 4.23
Area: 59763
Amount: 0.054298
Amount Units: ng/ml



Manual Integration Results

RT: 4.23
Area: 60720
Amount: 0.055167
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:37:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

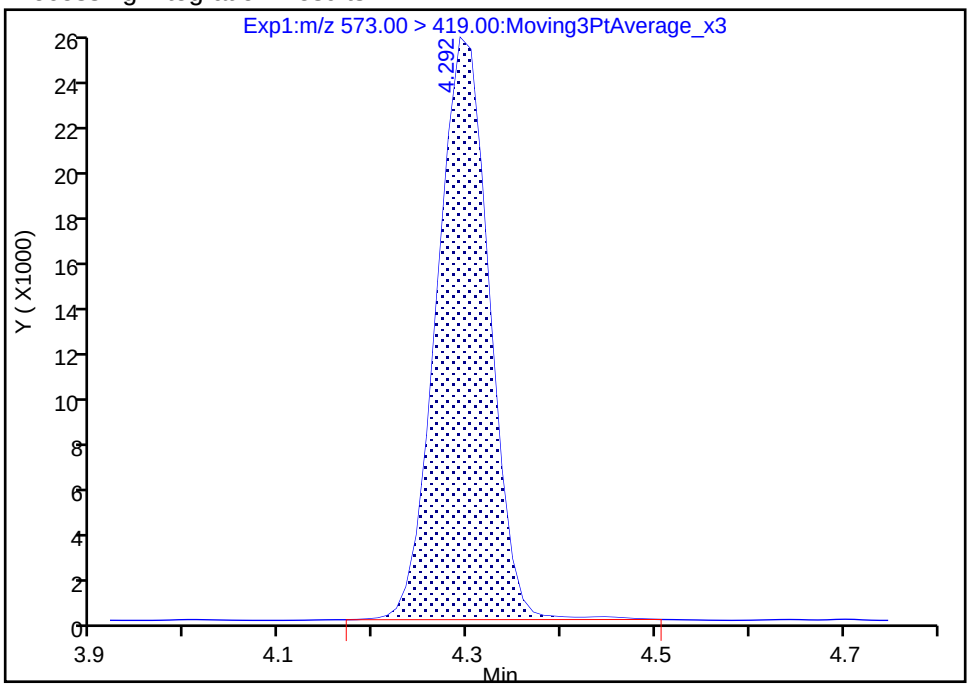
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Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

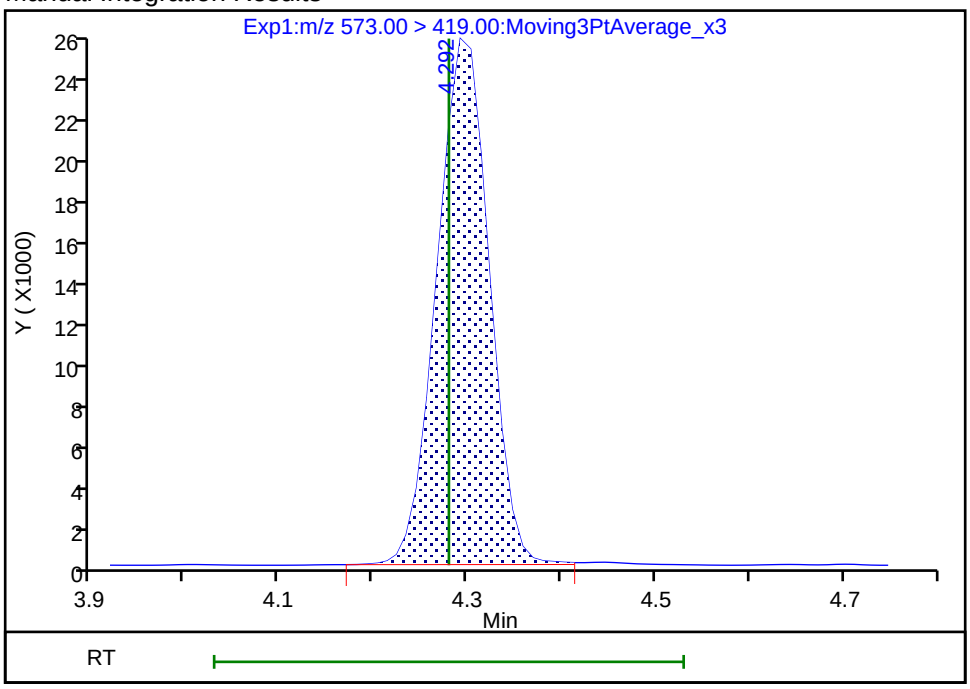
Processing Integration Results

RT: 4.29
Area: 97056
Amount: 1.350749
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 96702
Amount: 1.345823
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:32:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

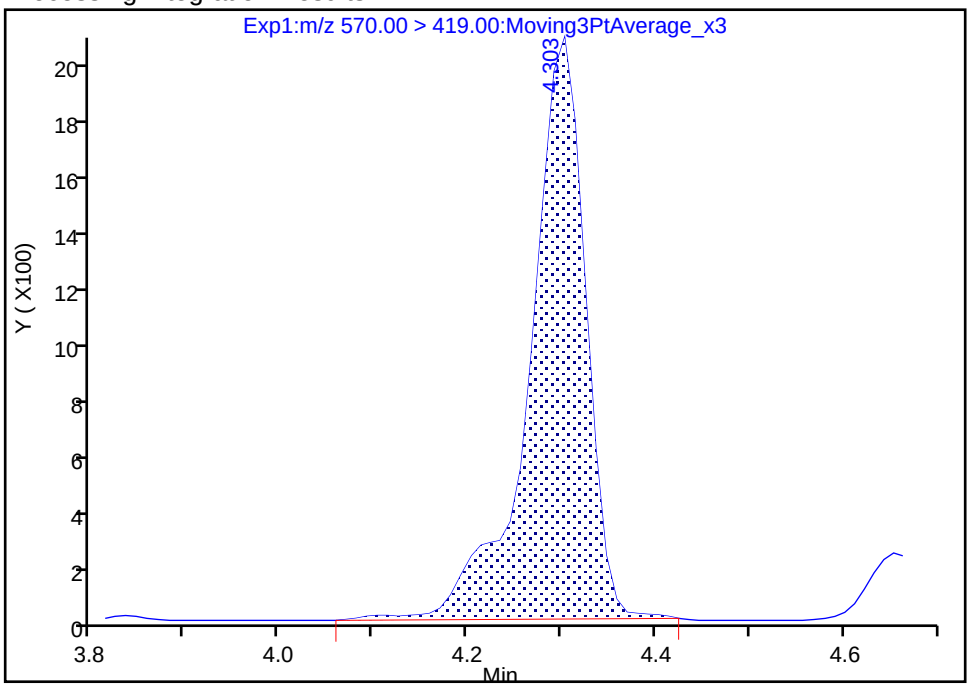
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Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

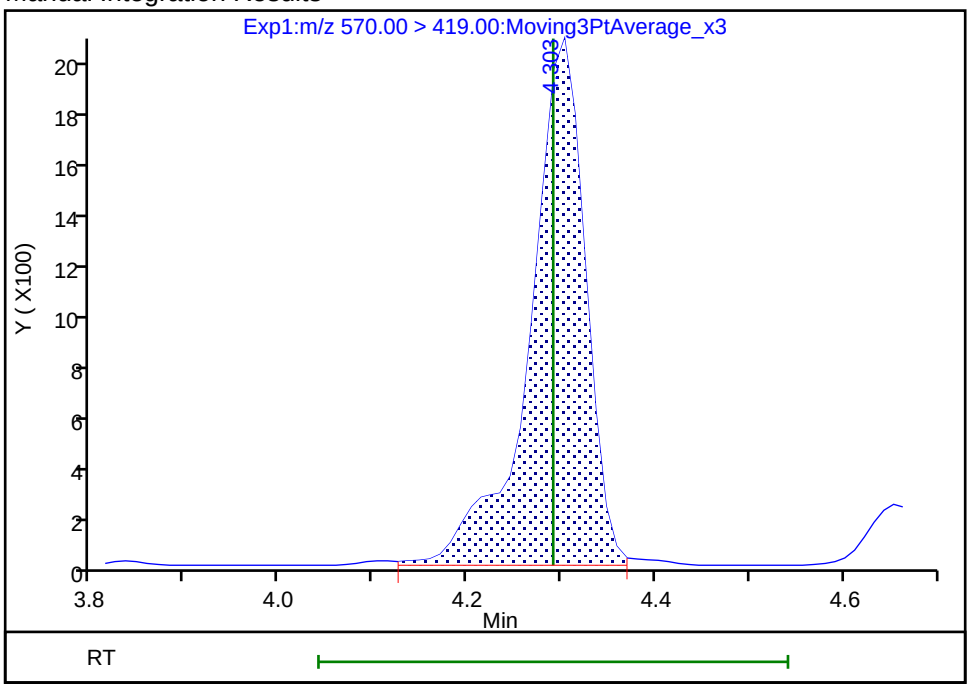
Processing Integration Results

RT: 4.30
Area: 8421
Amount: 0.130944
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 8391
Amount: 0.130478
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:37:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

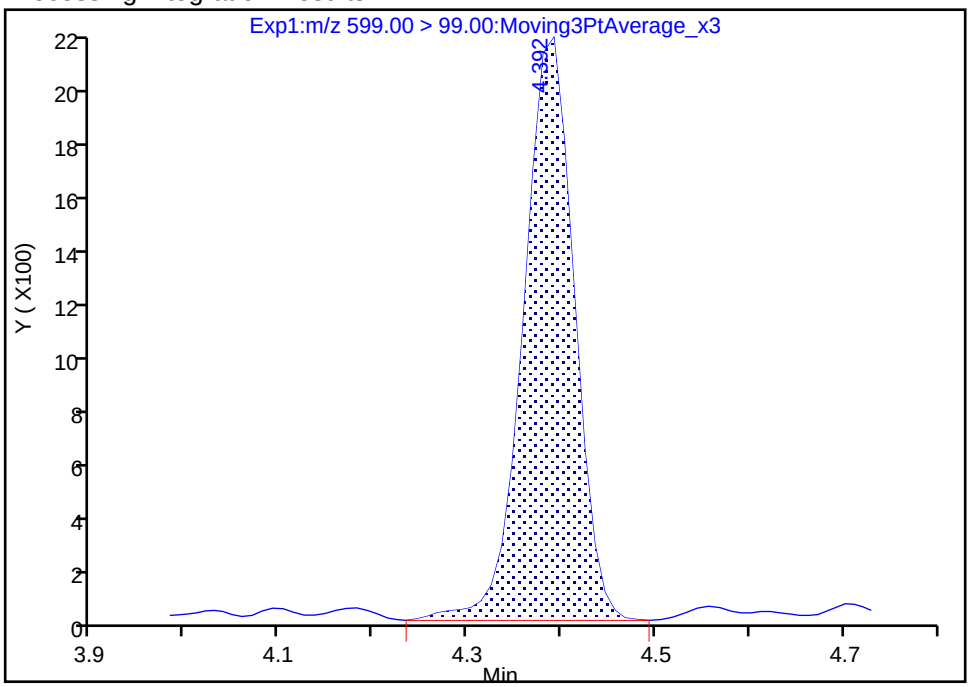
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Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

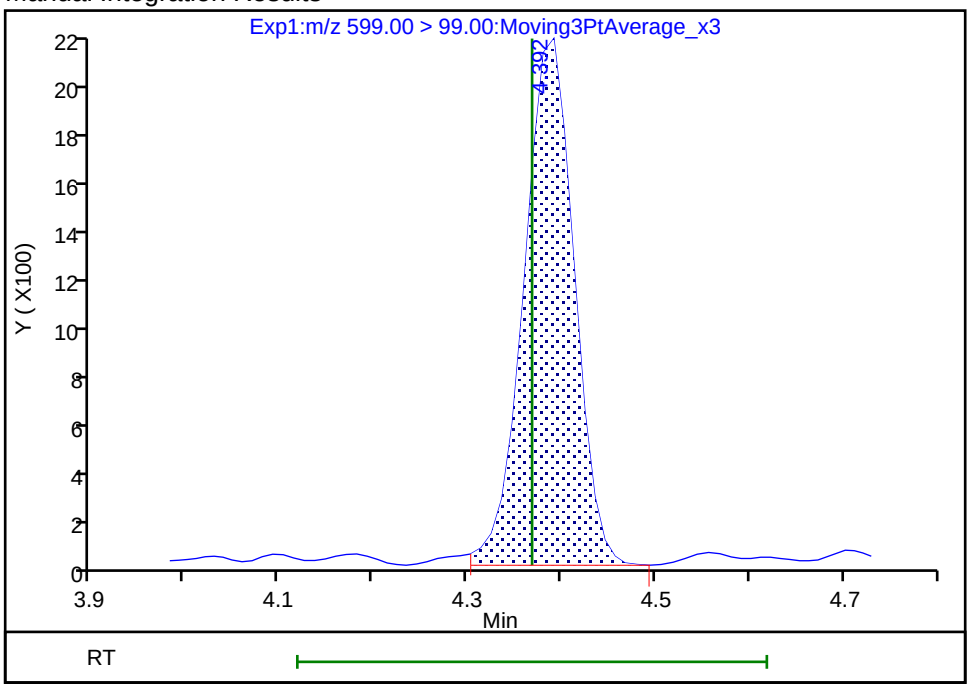
Processing Integration Results

RT: 4.39
Area: 7908
Amount: 0.046319
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 7810
Amount: 0.046319
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:37:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

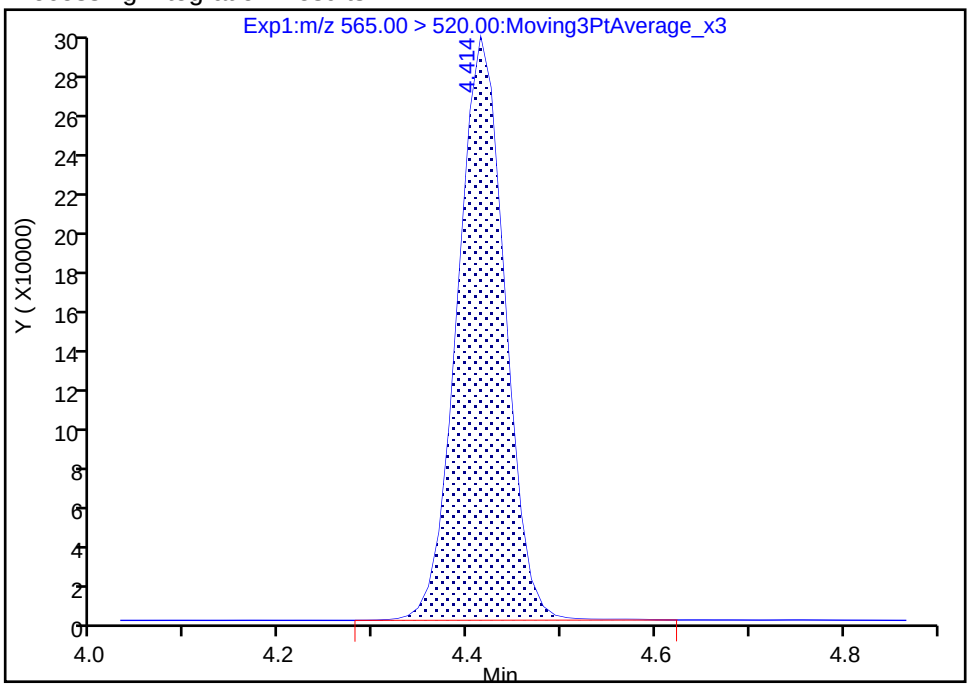
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Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 30 13C2 PFUnA, CAS: STL00997

Signal: 1

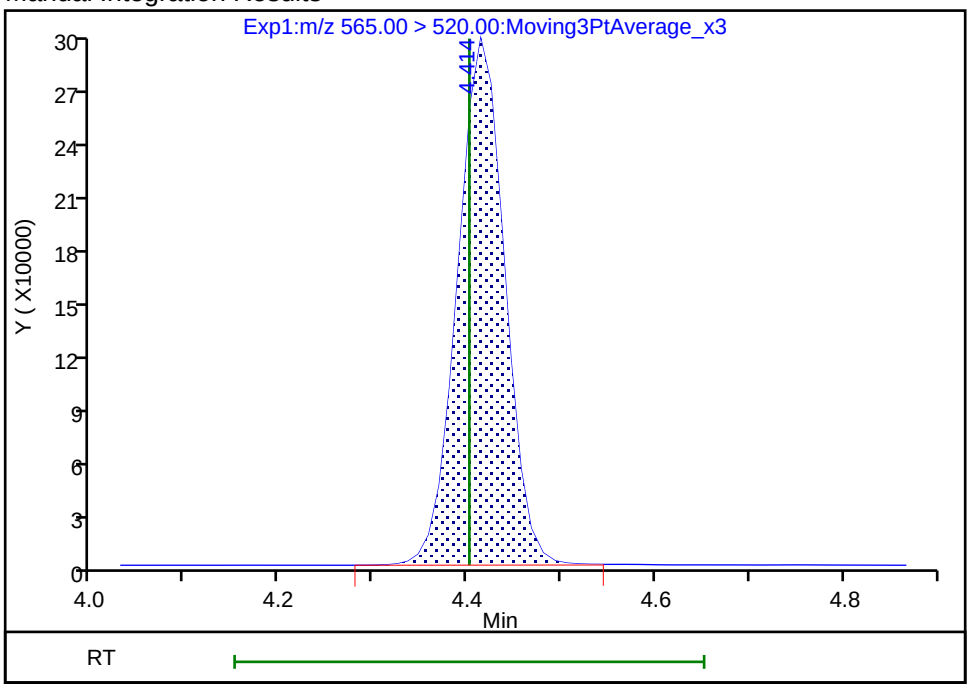
Processing Integration Results

RT: 4.41
Area: 1041077
Amount: 1.343595
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 1040046
Amount: 1.342264
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:32:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

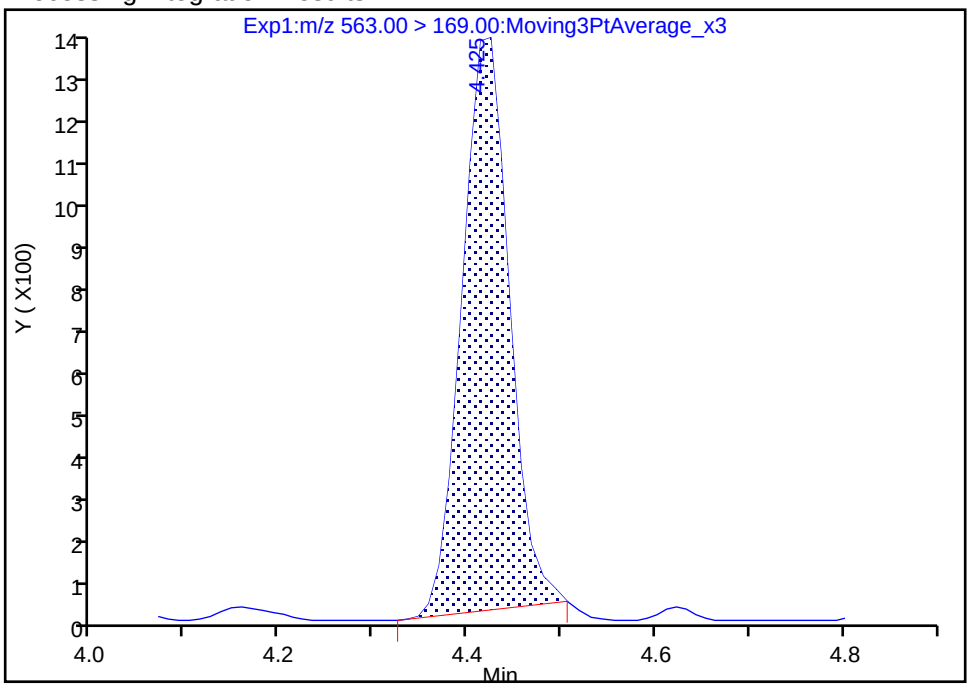
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Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

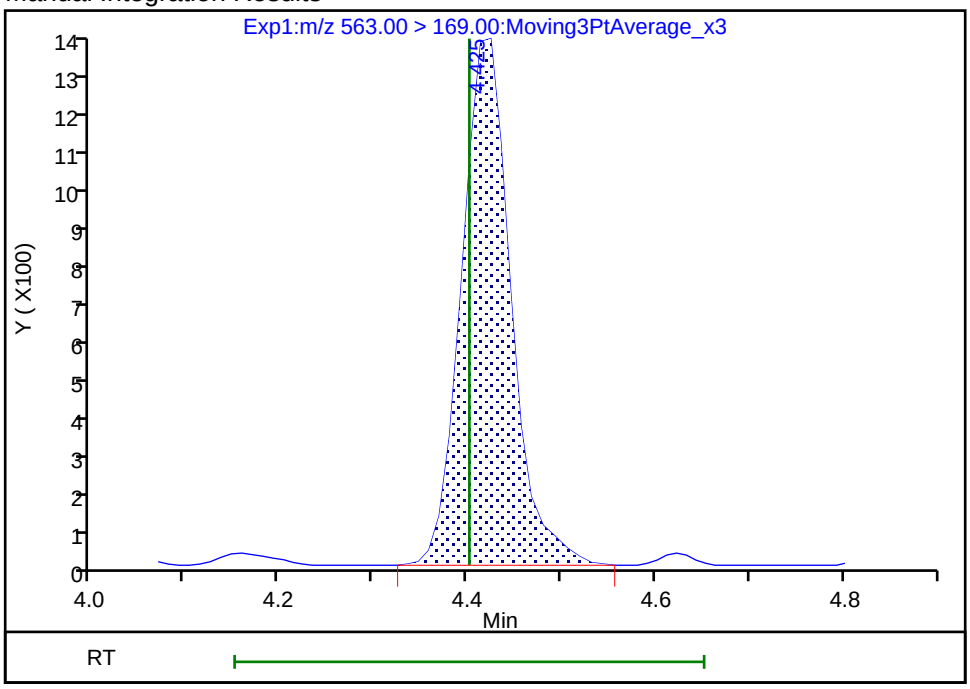
Processing Integration Results

RT: 4.42
Area: 4627
Amount: 0.049801
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 4908
Amount: 0.050493
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:37:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

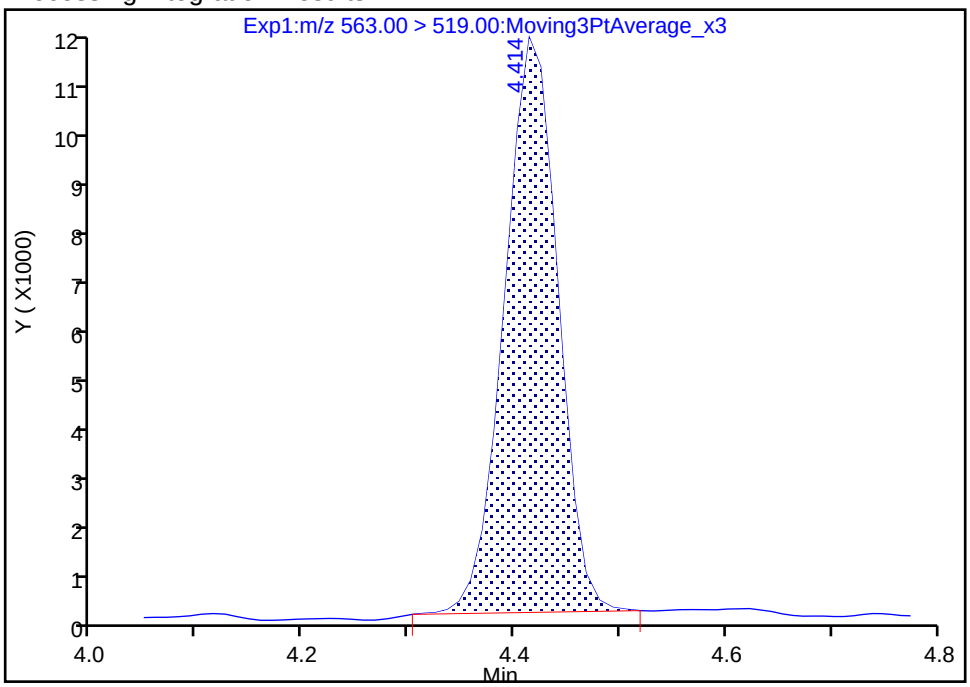
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Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

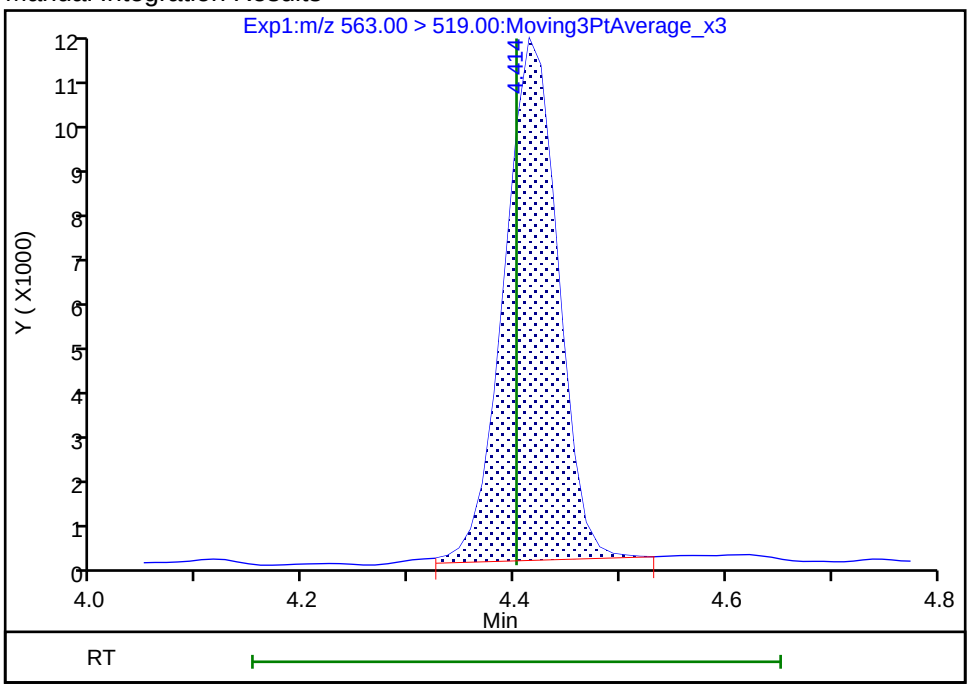
Processing Integration Results

RT: 4.41
Area: 40087
Amount: 0.049801
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 40644
Amount: 0.050493
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:37:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

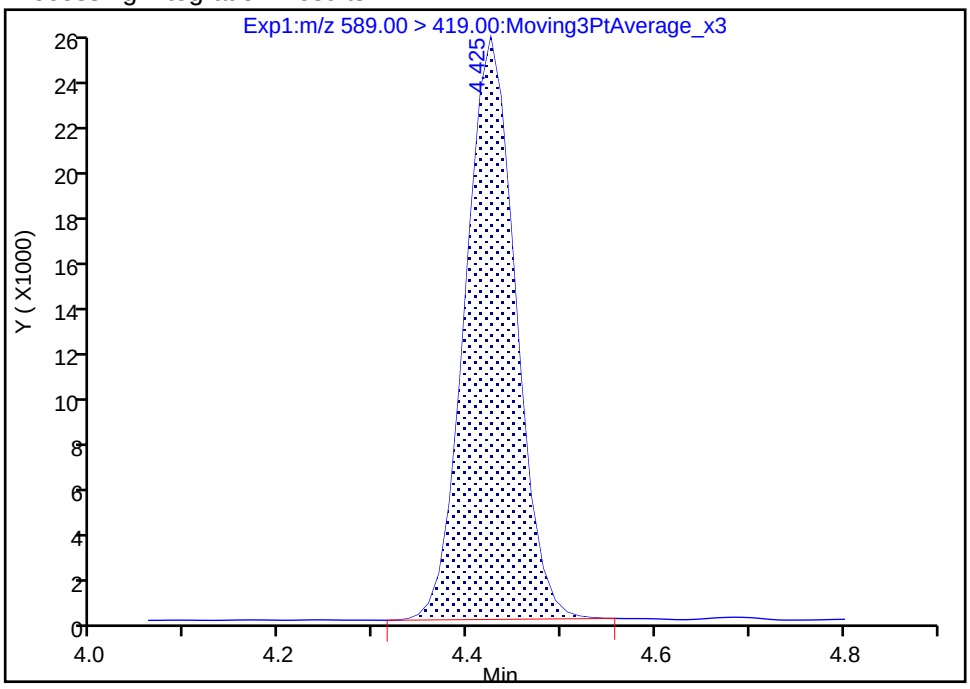
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Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

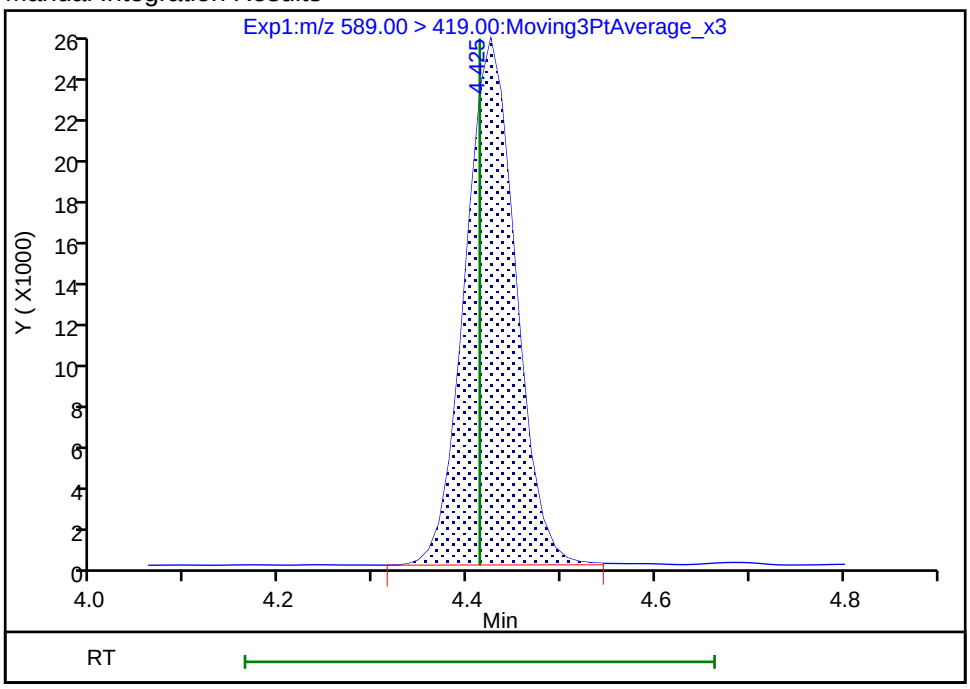
Processing Integration Results

RT: 4.42
Area: 94526
Amount: 1.263770
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 94929
Amount: 1.269158
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:32:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

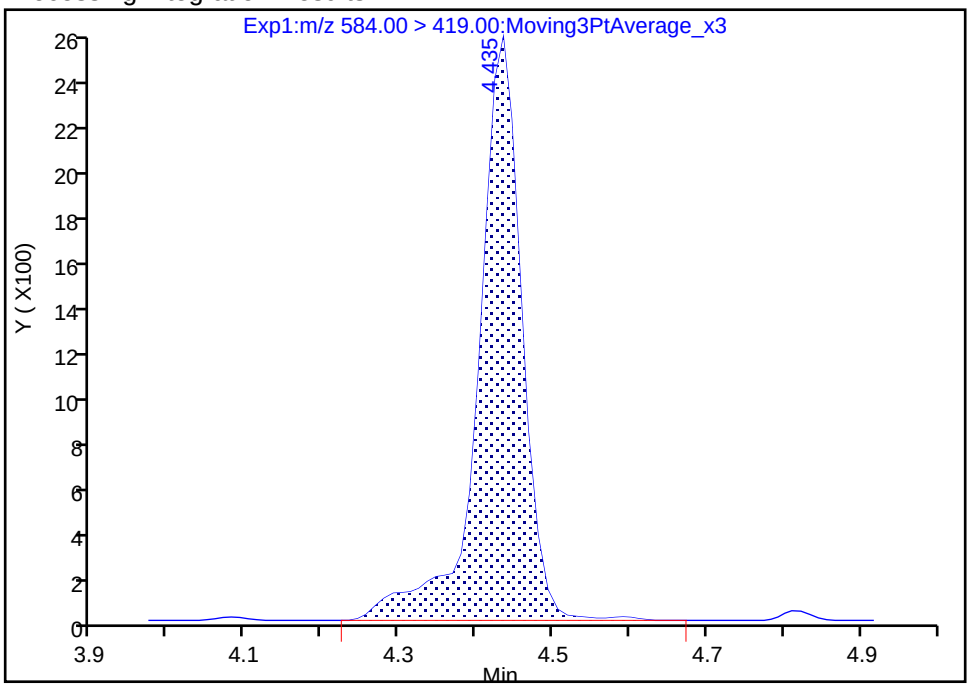
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Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

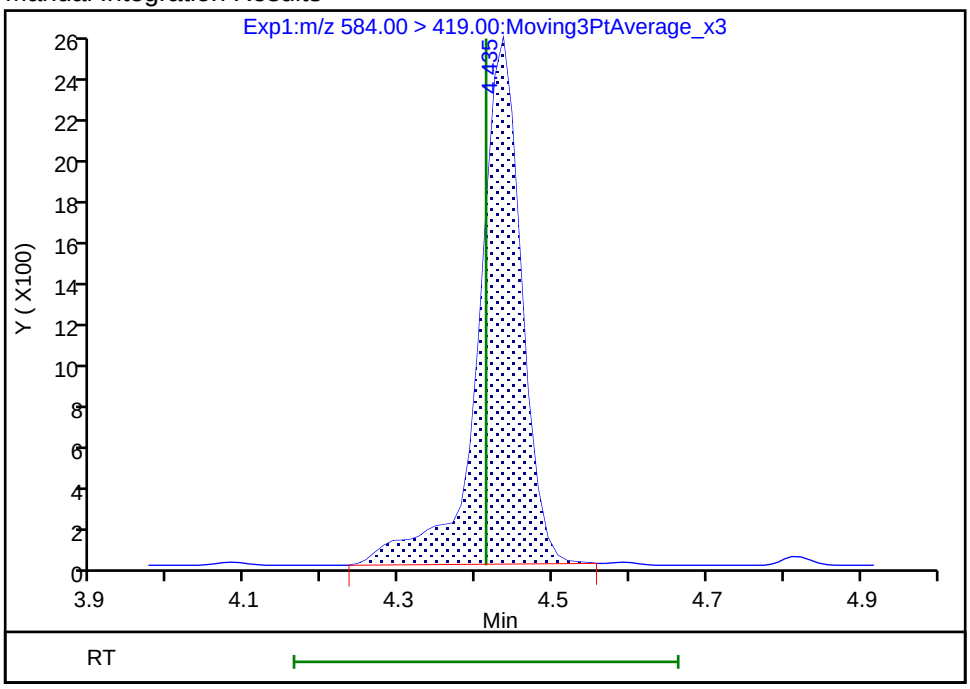
Processing Integration Results

RT: 4.44
Area: 10270
Amount: 0.159625
Amount Units: ng/ml



Manual Integration Results

RT: 4.44
Area: 10141
Amount: 0.157620
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:37:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

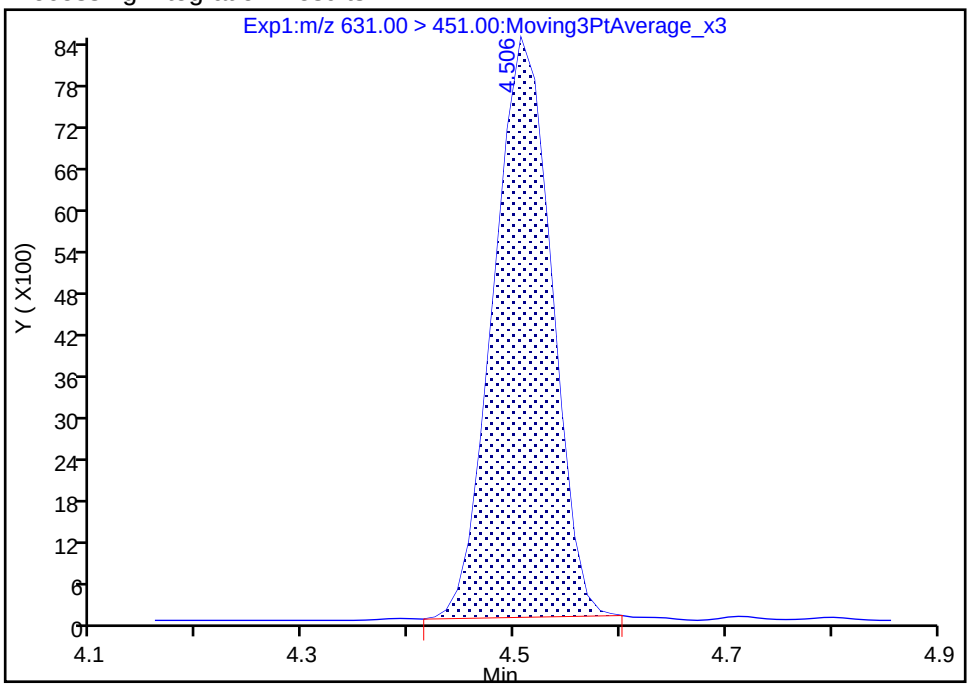
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

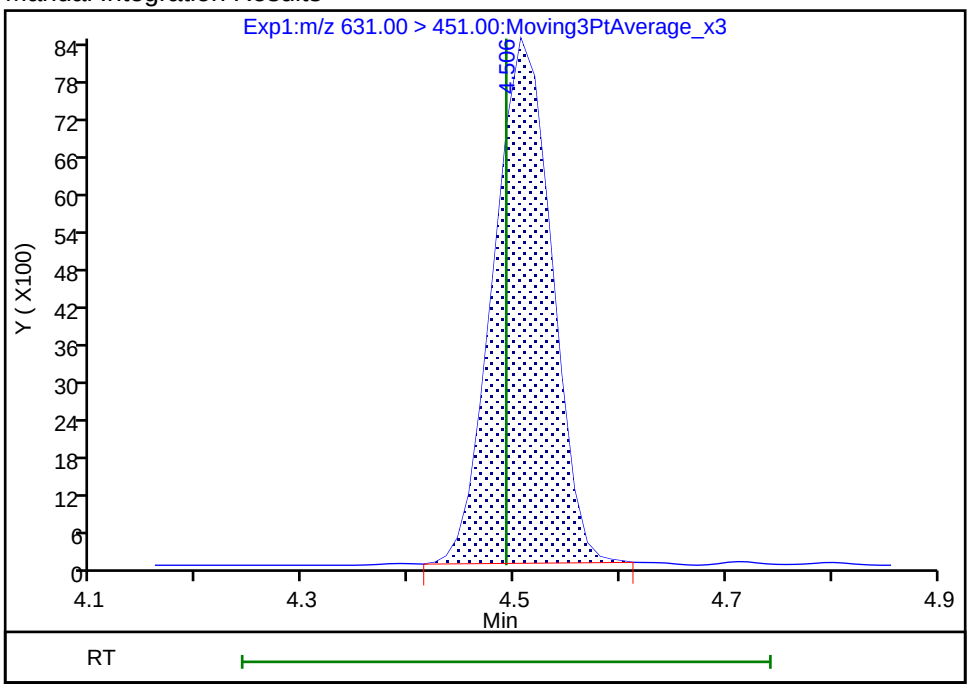
Processing Integration Results

RT: 4.51
Area: 32041
Amount: 0.047949
Amount Units: ng/ml



Manual Integration Results

RT: 4.51
Area: 32192
Amount: 0.048175
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:38:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

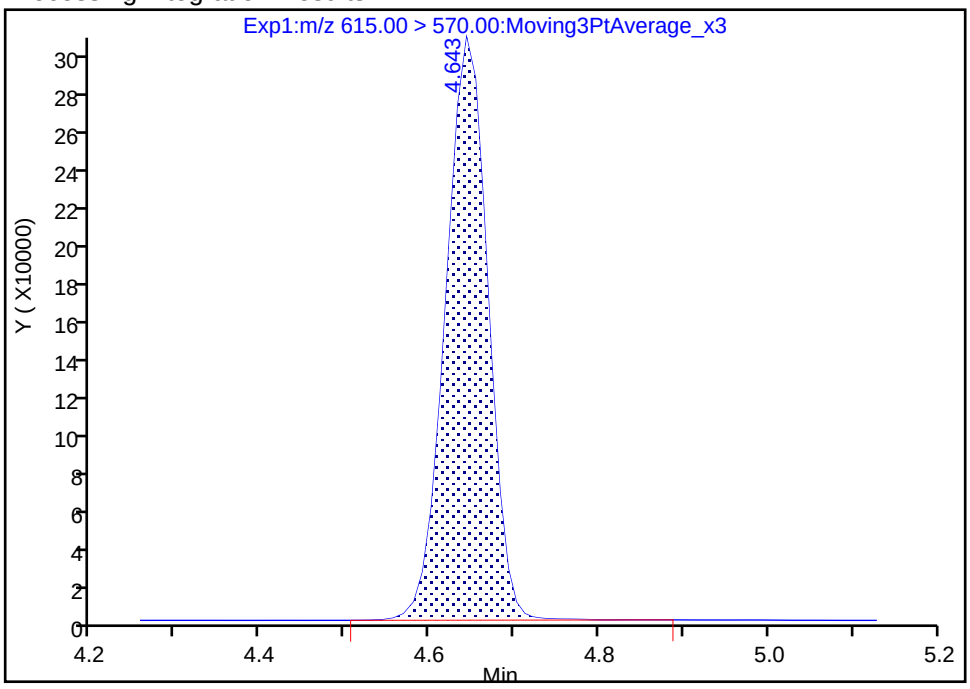
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 36 13C2 PFDoA, CAS: STL00998

Signal: 1

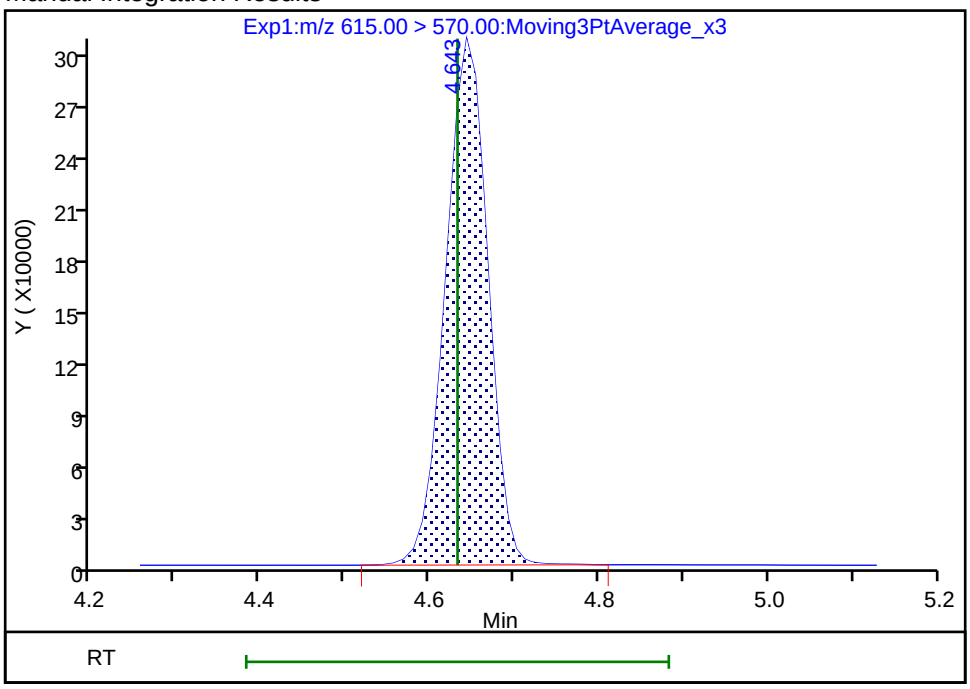
Processing Integration Results

RT: 4.64
Area: 1045152
Amount: 1.304664
Amount Units: ng/ml



Manual Integration Results

RT: 4.64
Area: 1044366
Amount: 1.303682
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:32:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

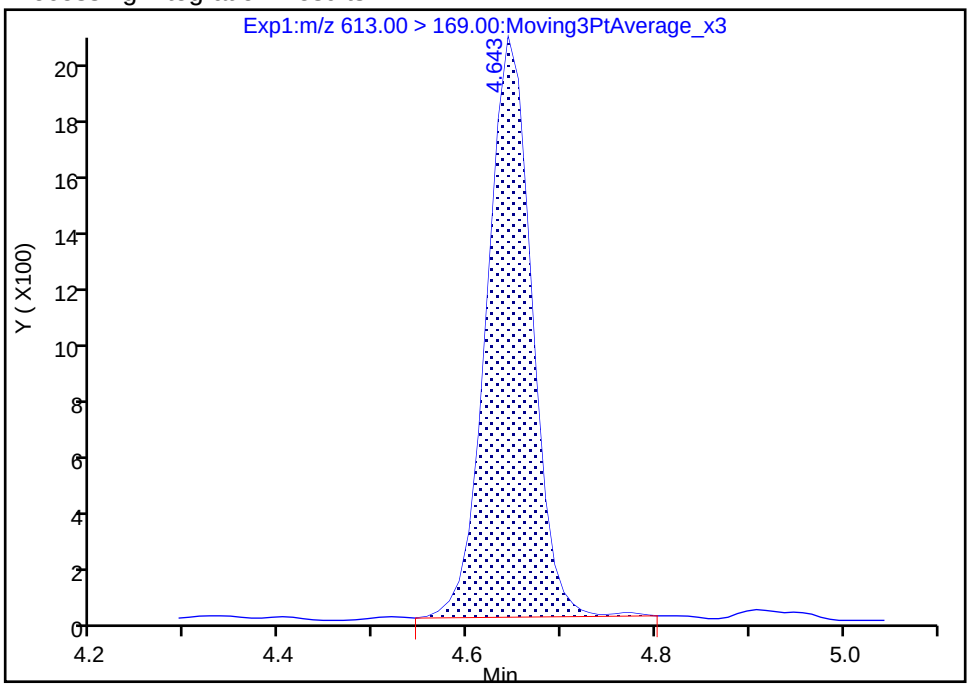
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

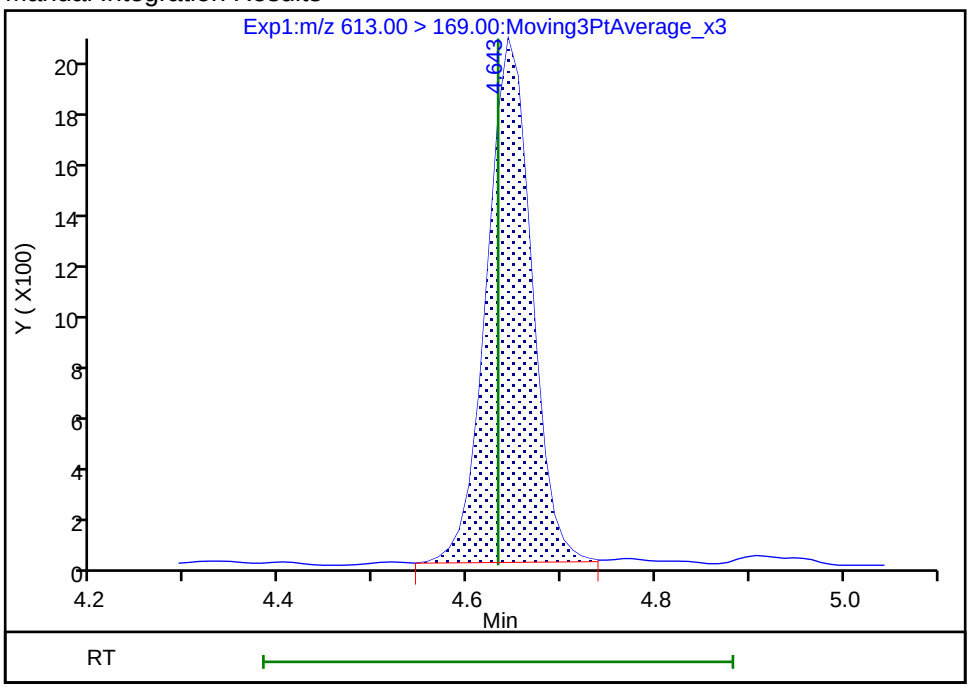
Processing Integration Results

RT: 4.64
Area: 6788
Amount: 0.051043
Amount Units: ng/ml



Manual Integration Results

RT: 4.64
Area: 6763
Amount: 0.050554
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:38:13

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

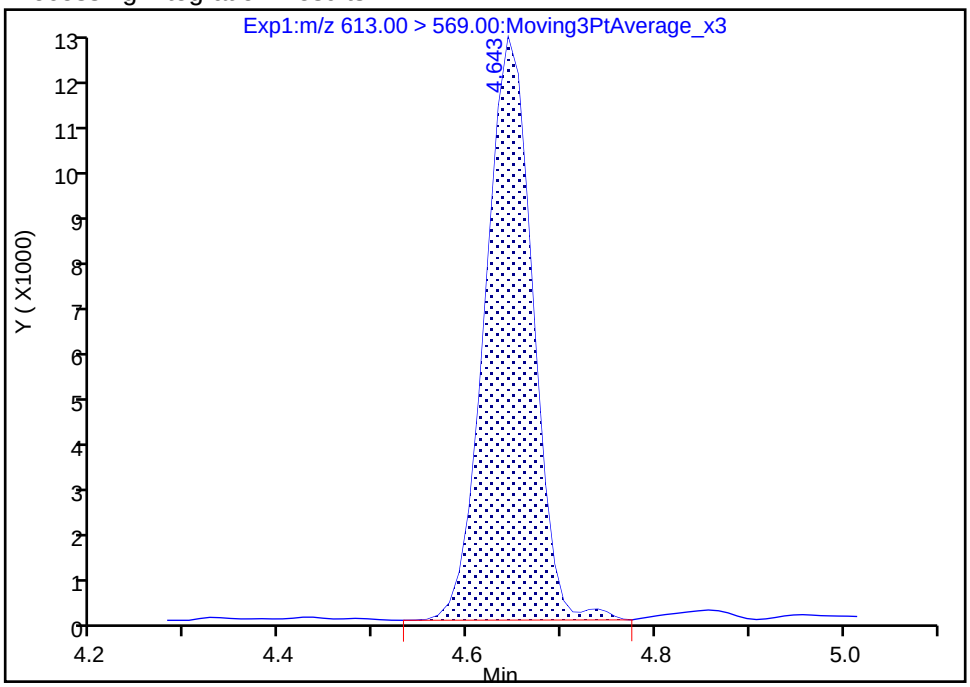
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

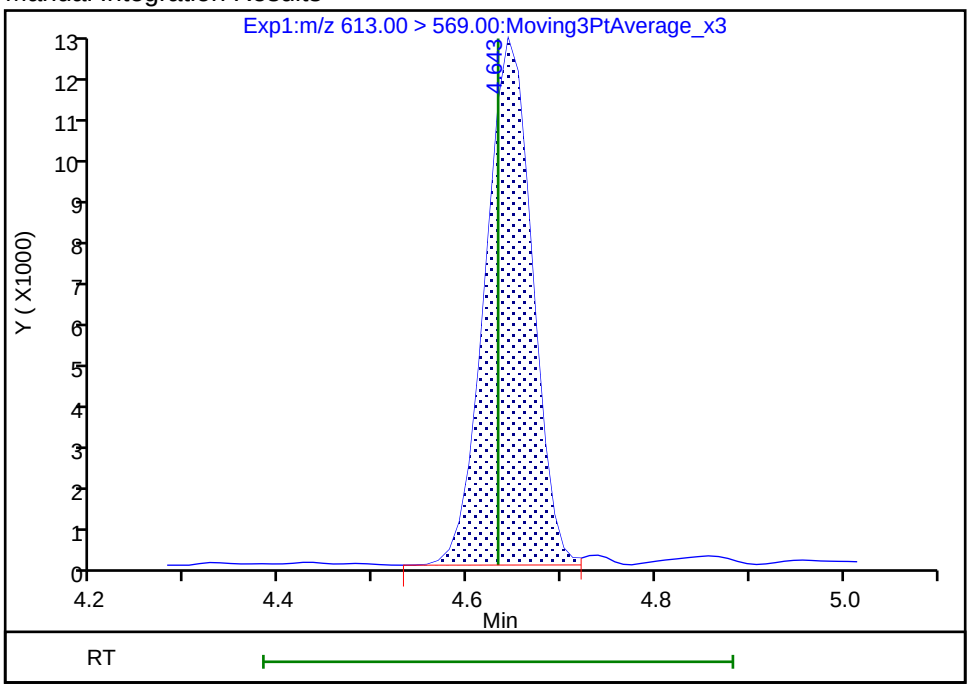
Processing Integration Results

RT: 4.64
Area: 43048
Amount: 0.051043
Amount Units: ng/ml



Manual Integration Results

RT: 4.64
Area: 42636
Amount: 0.050554
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:38:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

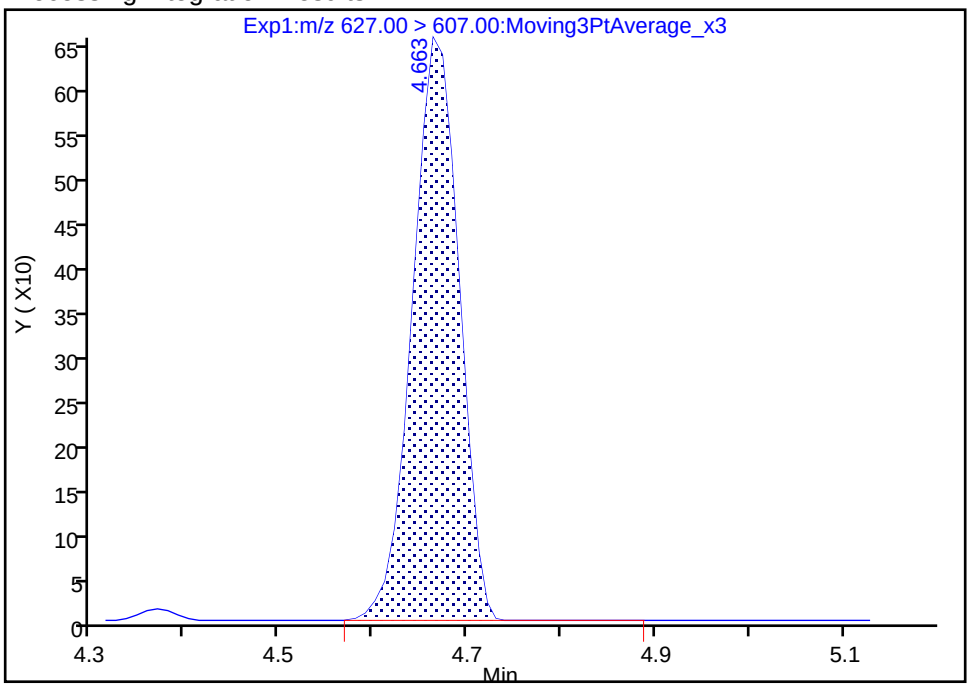
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

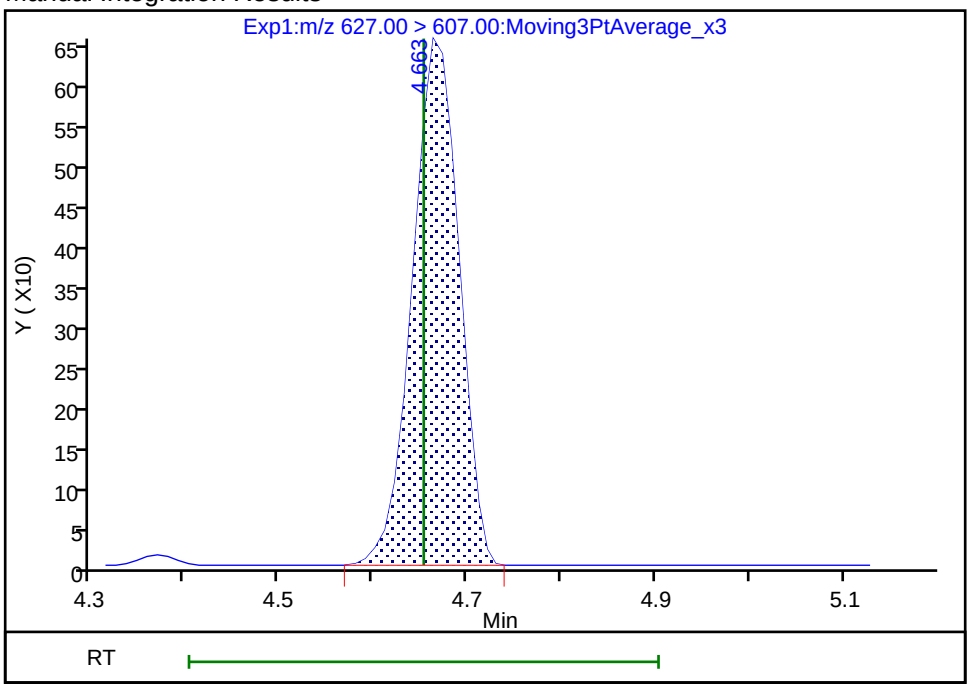
Processing Integration Results

RT: 4.66
Area: 2262
Amount: 0.057258
Amount Units: ng/ml



Manual Integration Results

RT: 4.66
Area: 2262
Amount: 0.057258
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:38:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

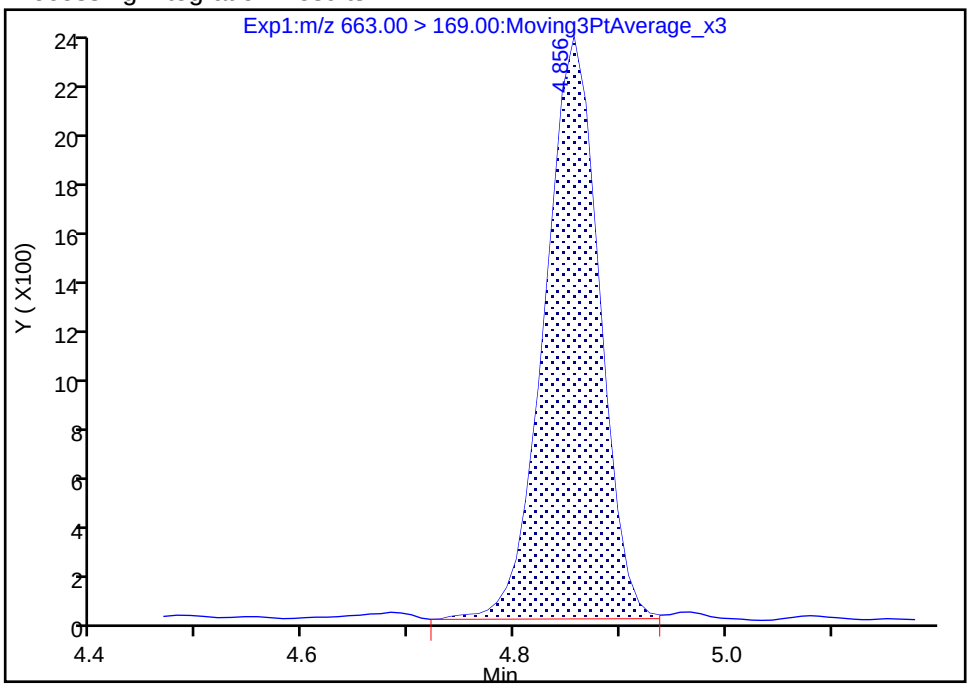
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d
Injection Date: 11-Aug-2021 13:18:40 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

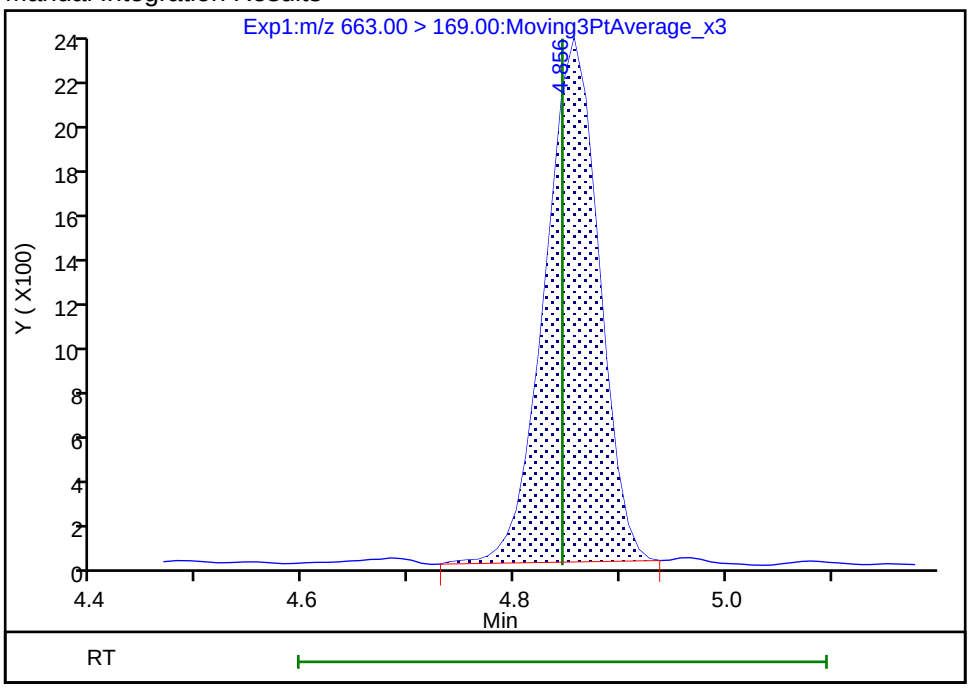
Processing Integration Results

RT: 4.86
Area: 8488
Amount: 0.050152
Amount Units: ng/ml



Manual Integration Results

RT: 4.86
Area: 8395
Amount: 0.050152
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:38:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

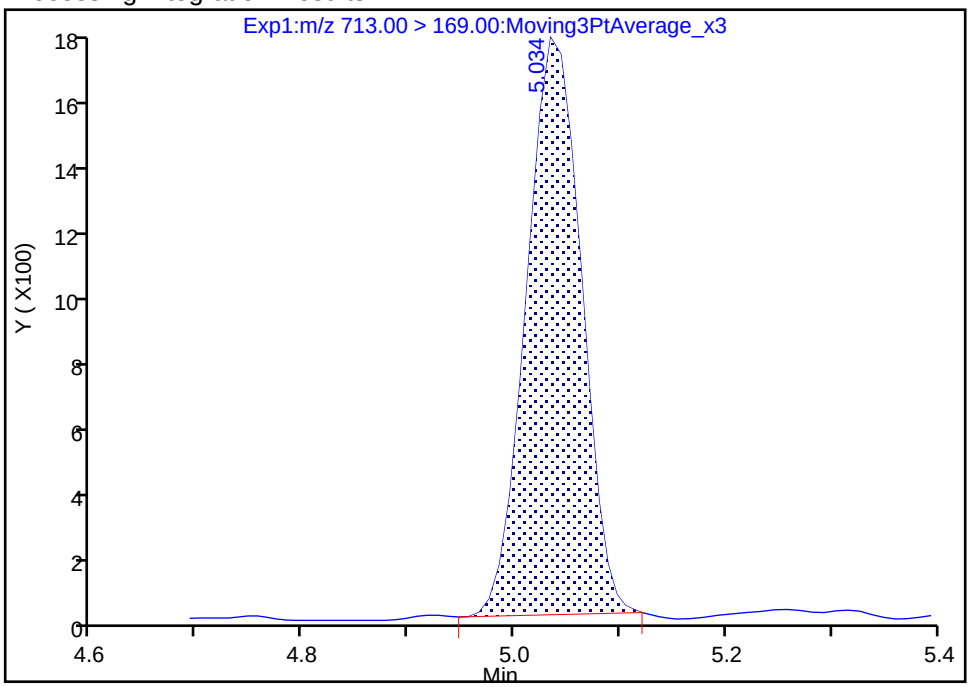
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

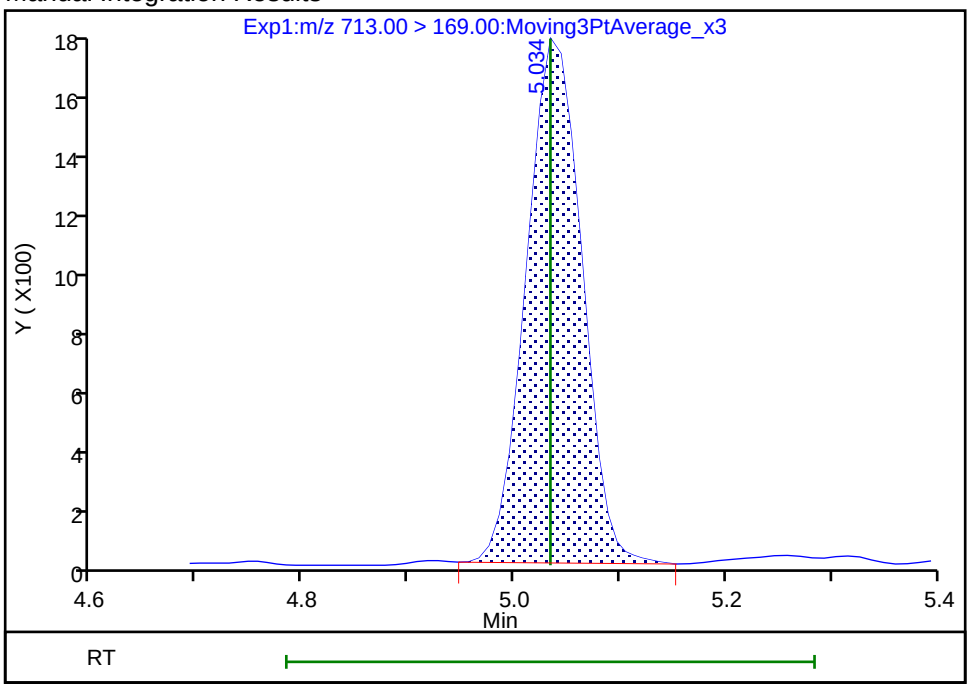
Processing Integration Results

RT: 5.03
Area: 6116
Amount: 0.059372
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 6225
Amount: 0.060430
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:38:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

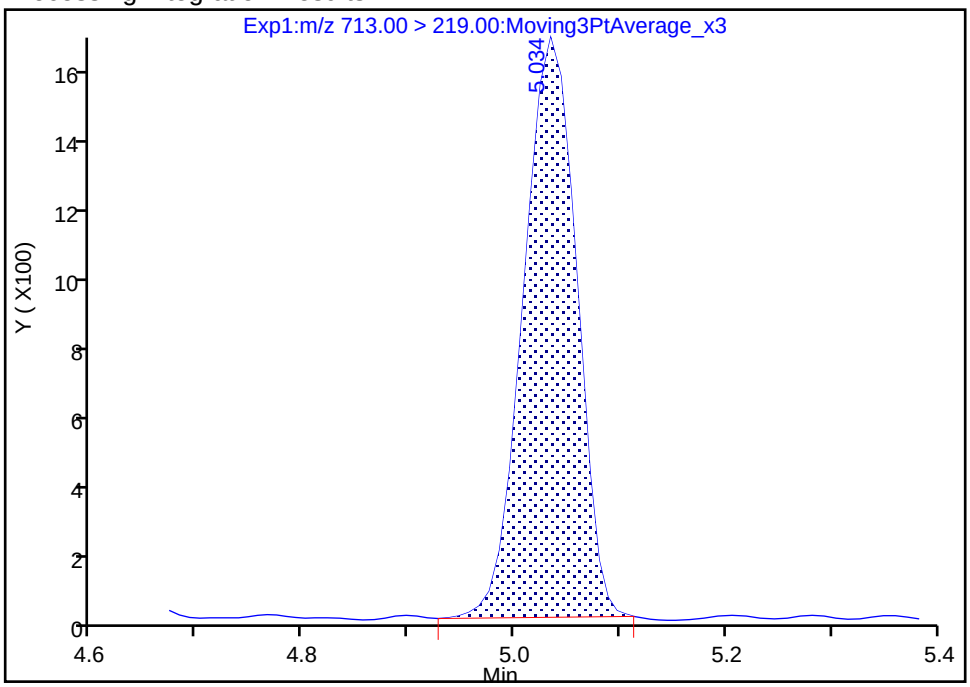
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

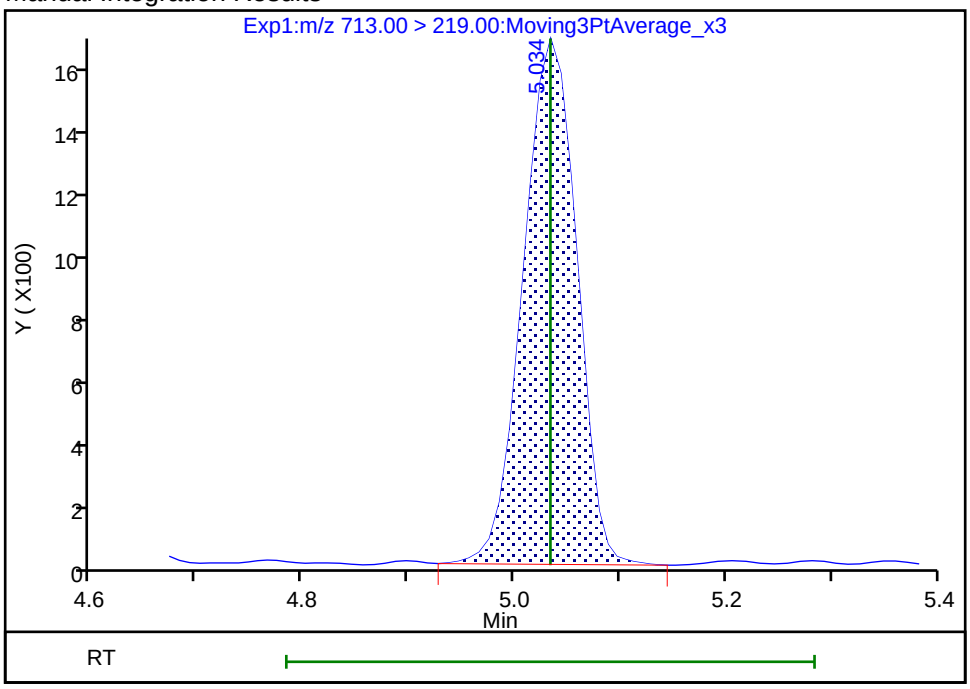
Processing Integration Results

RT: 5.03
Area: 5707
Amount: 0.059372
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 5772
Amount: 0.060430
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:38:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

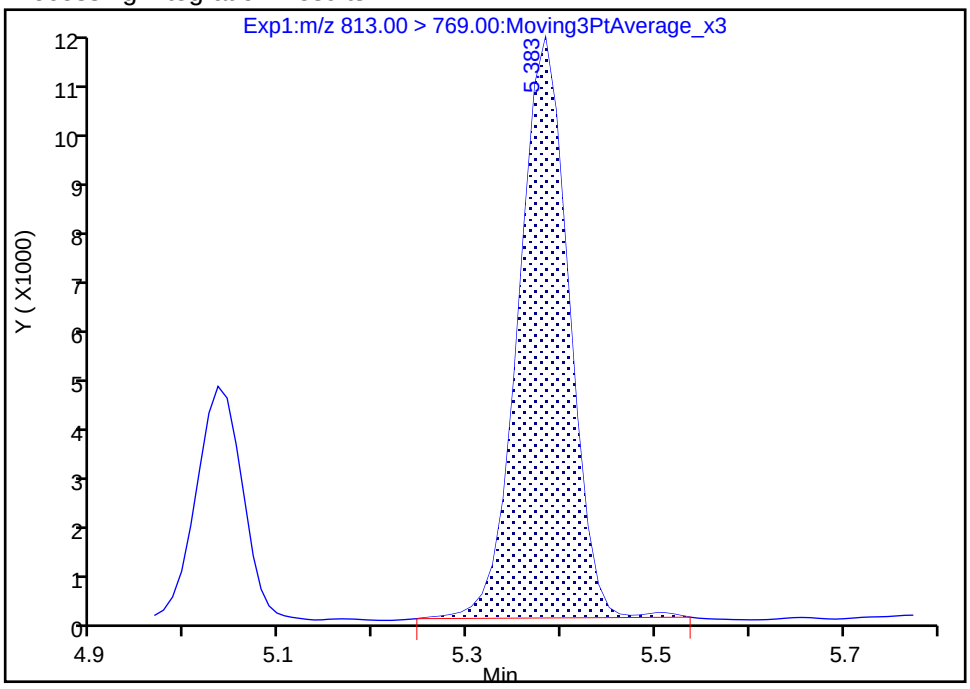
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

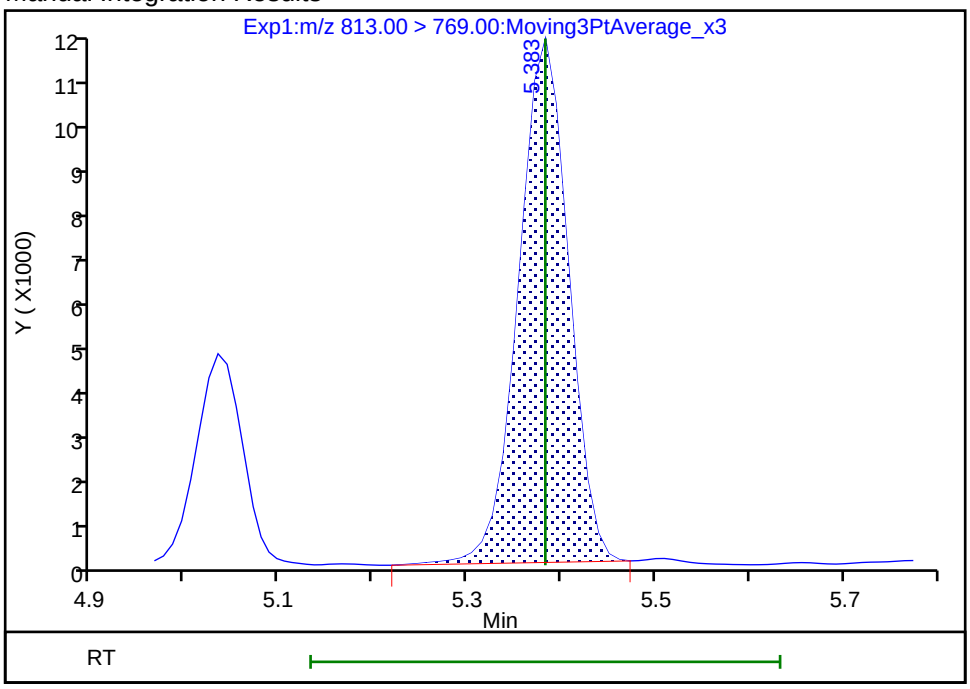
Processing Integration Results

RT: 5.38
Area: 40539
Amount: 0.052422
Amount Units: ng/ml



Manual Integration Results

RT: 5.38
Area: 40258
Amount: 0.051987
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:38:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

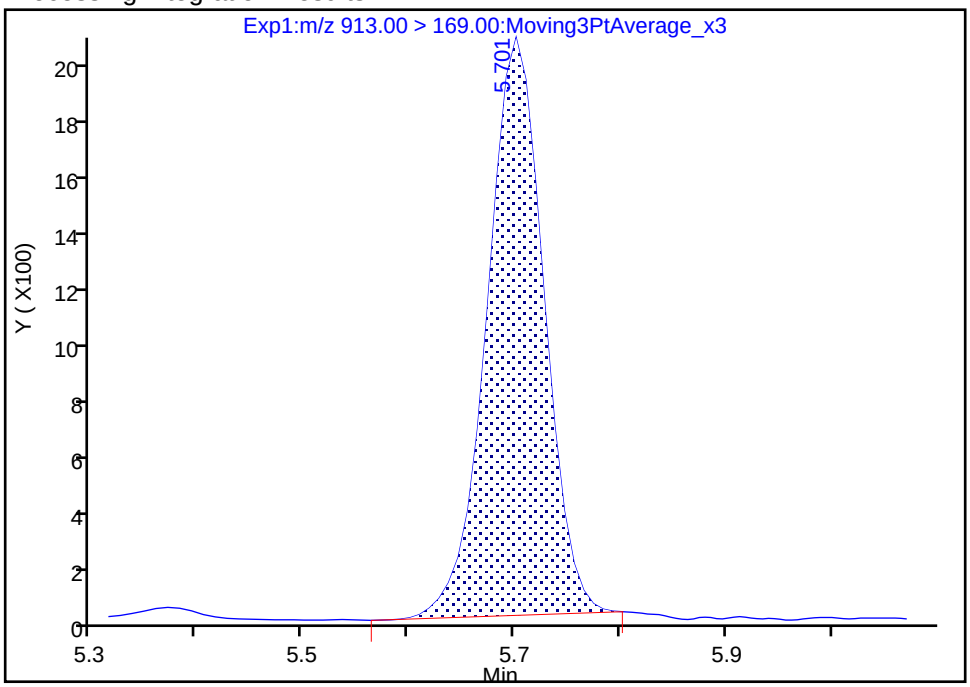
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A05.d				
Injection Date:	11-Aug-2021 13:18:40	Instrument ID:	LC812		
Lims ID:	CCVL				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	2	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

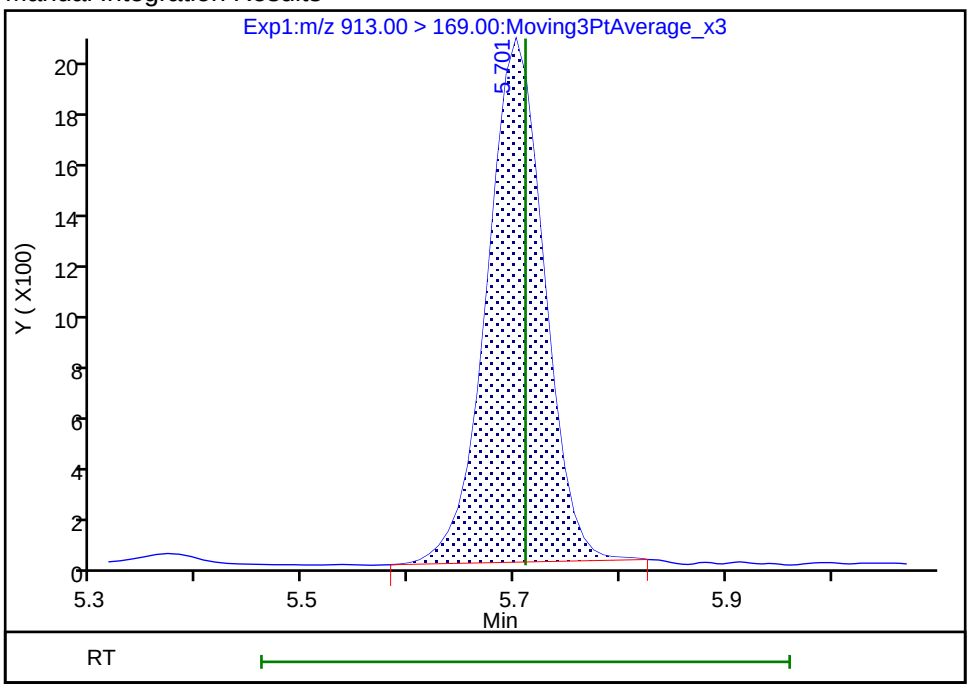
Processing Integration Results

RT: 5.70
Area: 7472
Amount: 0.047639
Amount Units: ng/ml



Manual Integration Results

RT: 5.70
Area: 7548
Amount: 0.047639
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:39:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVIS 200-170086/6 Calibration Date: 08/11/2021 13:26

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210811A06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9638	0.9393		0.975	1.00	-2.5	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.035	1.024		0.990	1.00	-1.0	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.080	1.120		0.917	0.884	3.7	40.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.928	1.908		0.924	0.934	-1.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.006	1.023		1.02	1.00	1.7	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.229	1.217		0.928	0.938	-1.0	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.654	1.738		1.05	1.00	5.1	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	0.9730		0.941	1.00	-5.9	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.157	1.149		0.904	0.910	-0.7	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.522	3.432		0.918	0.942	-2.6	50.0
6:2 FTS	AveID	1.036	1.026		0.938	0.948	-1.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.245	1.287		0.984	0.952	3.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.052	1.038		0.986	1.00	-1.4	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.121	1.075		0.891	0.928	-4.0	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9669	0.9800		1.01	1.00	1.4	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.225	1.158		0.881	0.932	-5.5	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8298	0.8132		0.941	0.960	-2.0	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.064	1.006		0.945	1.00	-5.5	40.0
8:2 FTS	AveID	0.4982	0.5406		1.04	0.958	8.5	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9781	1.012		1.03	1.00	3.4	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8313	0.8386		1.01	1.00	0.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6334	0.6476		0.986	0.964	2.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9674	1.090		1.13	1.00	12.6	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8472	0.9181		1.08	1.00	8.4	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	1.012	1.054		0.981	0.942	4.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.009	1.018		1.01	1.00	0.8	40.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.2522	0.2712		1.04	0.964	7.5	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2155	0.2036		0.915	0.968	-5.5	50.0

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCVIS 200-170086/6 Calibration Date: 08/11/2021 13:26

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210811A06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8702	0.8947		1.03	1.00	2.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1719	0.1817		1.06	1.00	5.8	40.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.000		1.06	1.00	5.9	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8466	0.8921		1.05	1.00	5.4	50.0
13C4 PFBA	Ave	1.144	1.127		1.23	1.25	-1.5	50.0
13C5 PFPeA	Ave	0.8660	0.8319		1.20	1.25	-3.9	50.0
13C3 PFBS	Ave	0.9175	0.9327		1.18	1.16	1.7	50.0
M2-4:2 FTS	Ave	0.0758	0.0789		1.22	1.17	4.1	50.0
13C2 PFHxA	Ave	0.9540	0.9246		1.21	1.25	-3.1	50.0
13C3 HFPO-DA	Ave	0.1030	0.0989		1.20	1.25	-4.1	50.0
13C4 PFHpA	Ave	0.9564	0.9681		1.27	1.25	1.2	50.0
18O2 PFHxS	Ave	0.7289	0.7534		1.22	1.18	3.4	50.0
M2-6:2 FTS	Ave	0.1011	0.1017		1.20	1.19	0.6	50.0
13C4 PFOA	Ave	0.9874	0.9754		1.23	1.25	-1.2	50.0
13C4 PFOS	Ave	0.5319	0.5400		1.21	1.20	1.5	50.0
13C5 PFNA	Ave	0.9379	0.9120		1.22	1.25	-2.8	50.0
13C2 PFDA	Ave	0.8507	0.8808		1.29	1.25	3.5	50.0
M2-8:2 FTS	Ave	0.1204	0.1308		1.30	1.20	8.6	50.0
13C8 FOSA	Ave	0.9381	0.9457		1.26	1.25	0.8	50.0
d3-NMeFOSAA	Ave	0.0626	0.0654		1.31	1.25	4.6	50.0
13C2 PFUnA	Ave	0.6747	0.6620		1.23	1.25	-1.9	50.0
d5-NEtFOSAA	Ave	0.0651	0.0608		1.17	1.25	-6.6	50.0
13C2 PFDoA	Ave	0.6975	0.6819		1.22	1.25	-2.2	50.0
13C2 PFTeDA	Ave	0.5468	0.5095		1.16	1.25	-6.8	50.0
13C2 PFHxDA	Ave	0.5565	0.5264		1.18	1.25	-5.4	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Aug-2021 13:26:58 ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 200-0047128-006 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:31:39 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 07:52:10
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	2.082	2.082	0.0	0.592	1721630	1.23		98.5	10840	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.082	2.082	0.0	1.000	1293700	0.9746		97.5	180	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.413	0.0	0.686	1270768	1.20		96.1	3047	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.413	0.0	1.000	1041121	0.9895		99.0	96.5	M
D 47 13C3 PFBS										
301.90 > 80.00	2.426	2.426	0.0	0.689	1325123	1.18		102	242131	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.426	2.426	0.0	1.000	1128882	0.9169	Target=2.20	104	2073	
298.90 > 99.00	2.426	2.426	0.0	1.000	501505		2.25(1.10-3.30)		356	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.734	2.734	0.0	1.000	171841	0.9242		98.9	1365	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.734	2.734	0.0	0.777	112583	1.22		104	135	
D 7 13C2 PFHxA										
315.00 > 270.00	2.782	2.782	0.0	0.791	1412430	1.21		96.9	3012	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.782	2.782	0.0	1.000	1155763	1.02	Target=12.93	102	294	M
313.00 > 119.00	2.782	2.782	0.0	1.000	90444		12.78(6.46-19.39)		271	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.782	2.782	0.0	0.882	1050724	0.9284	Target=3.71	99.0	1406	
349.00 > 99.00	2.782	2.782	0.0	0.882	300879		3.49(1.85-5.56)		548	
D 64 13C3 HFPO-DA										M
332.10 > 287.00	2.892	2.892	0.0	0.822	151021	1.20		95.9	1388	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.892	2.892	0.0	1.000	210018	1.05		105	81.0	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.154	0.0	0.896	1088760	1.22		103	2592	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.154	3.154	0.0	1.000	962761	0.9037	Target=4.48	99.3	1395	M
399.00 > 99.00	3.154	3.154	0.0	1.000	215568		4.47(2.24-6.72)		286	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.154	3.154	0.0	1.000	1151087	0.9410	Target=3.68	94.1	483	
363.00 > 169.00	3.154	3.154	0.0	1.000	313226		3.67(1.84-5.53)		985	
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.154	0.0	0.896	1478842	1.27		101	2741	
77 DONA										
377.00 > 251.00	3.196	3.196	0.0	0.833	2133535	0.9179	Target=2.47	97.4	3048	
377.00 > 85.00	3.196	3.196	0.0	0.833	871429		2.45(1.24-3.71)		1500	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.510	3.510	0.0	0.915	808548	0.9839	Target=6.56	103	1697	M
449.00 > 99.00	3.510	3.510	0.0	0.915	118306		6.83(3.28-9.84)		520	
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.510	3.510	0.0	0.997	147665	1.20		101	669	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.510	3.510	0.0	1.000	120914	0.9382		99.0	1283	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.519	3.519	0.0	1.000	1490005	1.23		98.8	3342	M
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1527636	1.25			2784	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.519	3.519	0.0	1.000	1237490	0.9864	Target=2.67	98.6	608	M
413.00 > 169.00	3.519	3.519	0.0	1.000	477686		2.59(1.33-4.00)		1213	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	788651	1.21		102	2952	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	658662	0.8906	Target=6.69	96.0	592	M
499.00 > 99.00	3.836	3.836	0.0	1.000	108882		6.05(3.34-10.03)		379	M
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.097	1393137	1.22		97.2	3696	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.858	3.858	0.0	1.000	1092225	1.01	Target=7.21	101	393	
463.00 > 169.00	3.858	3.858	0.0	1.000	150124		7.28(3.60-10.81)		891	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.992	3.992	0.0	1.041	712469	0.8809		94.5	2461	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.115	4.115	0.0	1.073	515221	0.9408	Target=3.20	98.0	2435	
549.00 > 99.00	4.115	4.115	0.0	1.073	169734		3.04(1.60-4.80)		717	M
D 23 13C2 PFDA										
515.00 > 470.00	4.148	4.148	0.0	1.179	1345492	1.29		104	3932	

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	4.148	4.148	0.0	1.000	1082570	0.9449	Target=8.42	94.5	1037	
513.00 > 169.00	4.148	4.148	0.0	1.000	126318		8.57(4.21-12.63)		1204	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.160	0.0	1.000	82766	1.04		109	1422	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.182	191369	1.30		109	693	
D 21 13C8 FOSA										
506.00 > 78.00	4.224	4.224	0.0	1.201	1444687	1.26		101	2353	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.224	4.224	0.0	1.000	1169219	1.03		103	2132	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.280	0.0	1.216	99941	1.31		105	221	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.291	4.291	0.0	1.003	67047	1.01		101	260	
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.369	4.369	0.0	1.139	412018	0.9856	Target=2.66	102	2372	
599.00 > 99.00	4.369	4.369	0.0	1.139	139566		2.95(1.33-3.99)		1008	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.402	0.0	1.251	1011359	1.23		98.1	2930	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.402	4.402	0.0	1.000	881546	1.13	Target=7.70	113	1183	
563.00 > 169.00	4.402	4.402	0.0	1.000	101188		8.71(3.85-11.56)		1103	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.413	0.0	1.254	92937	1.17		93.4	662	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.413	0.0	1.000	68260	1.08		108	477	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.492	4.492	0.0	1.171	655079	0.9809		104	2292	
D 36 13C2 PFDoA										
615.00 > 570.00	4.632	4.632	0.0	1.316	1041682	1.22		97.8	2749	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.632	4.632	0.0	1.000	848175	1.01	Target=6.31	101	304	M
613.00 > 169.00	4.632	4.632	0.0	1.000	135531		6.26(3.15-9.46)		1090	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.653	4.653	0.0	1.119	41772	1.04		108	1528	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.810	4.810	0.0	1.254	130087	0.9147	Target=0.45	94.5	1365	
699.00 > 99.00	4.801	4.810	-0.009	1.252	306335		0.42(0.23-0.68)		2063	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.845	4.845	0.0	1.046	745564	1.03	Target=4.61	103	282	M
663.00 > 169.00	4.845	4.845	0.0	1.046	162890		4.58(2.31-6.92)		1980	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.034	5.034	0.0	1.431	778386	1.16		93.2	3992	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.034	5.034	0.0	1.000	113172	1.06	Target=1.00	106	974	
713.00 > 219.00	5.034	5.034	0.0	1.000	118373		0.96(0.50-1.51)		2052	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.383	5.383	0.0	1.530	804153	1.18		94.6	2855	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.383	5.383	0.0	1.000	643031	1.06	Target=4.32	106	384	
813.00 > 169.00	5.383	5.383	0.0	1.000	161430		3.98(2.16-6.48)		1414	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.710	5.710	0.0	1.061	573892	1.05	Target=3.72	105	432	
913.00 > 169.00	5.710	5.710	0.0	1.061	154443		3.72(1.86-5.58)		935	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00024 Amount Added: 100.00 Units: uL

Report Date: 12-Aug-2021 12:31:40 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d

Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812

Lims ID: CCVIS

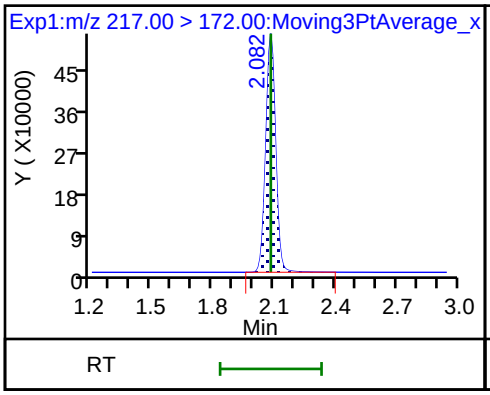
Client ID:

Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6

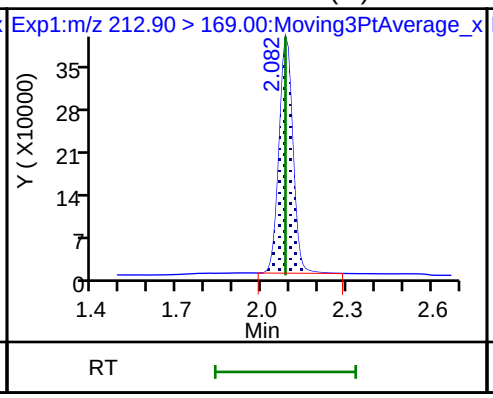
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

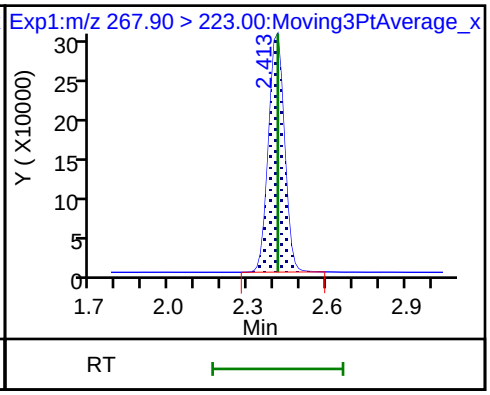
D 1 13C4 PFBA



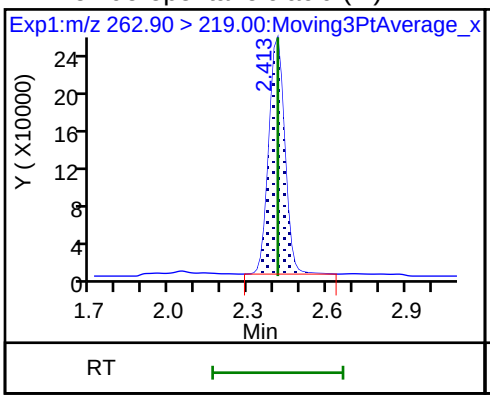
2 Perfluorobutanoic acid (M)



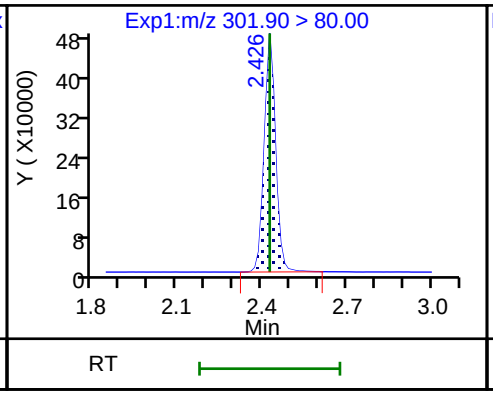
D 3 13C5 PFPeA



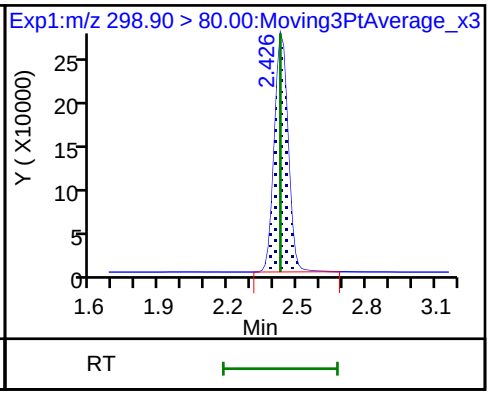
4 Perfluoropentanoic acid (M)



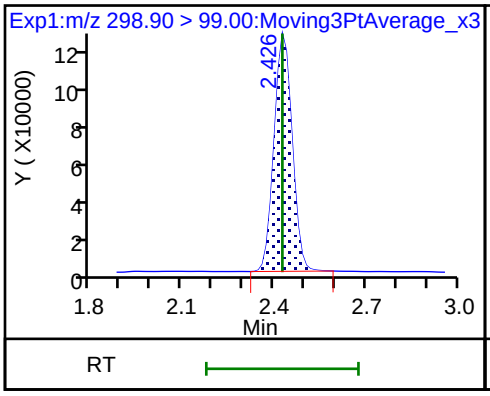
D 47 13C3 PFBS



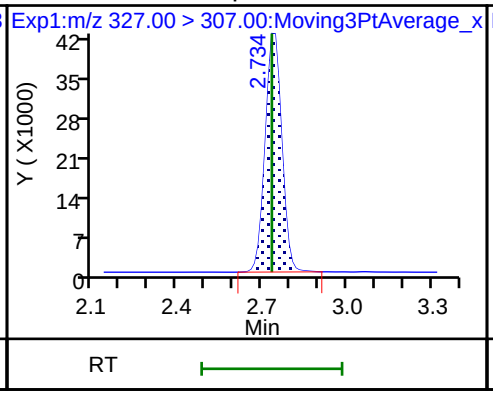
5 Perfluorobutanesulfonic acid



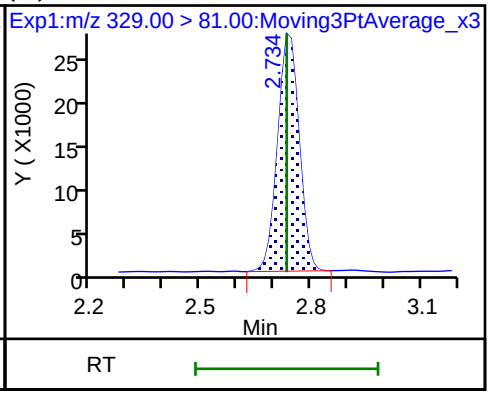
5 Perfluorobutanesulfonic acid



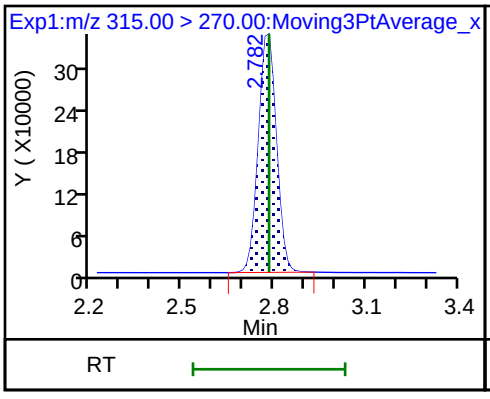
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



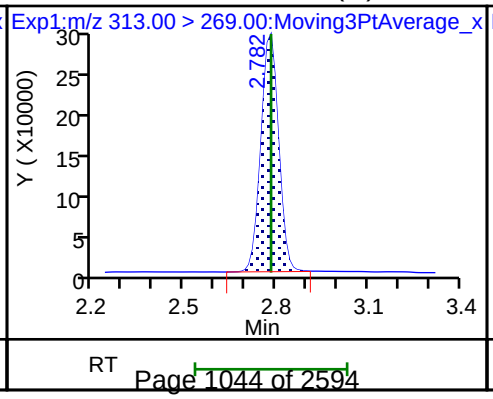
60 M2-4:2 FTS



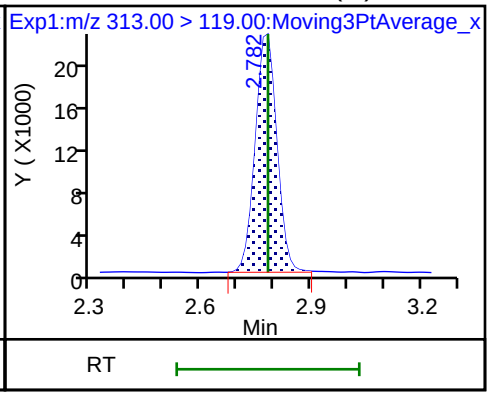
D 7 13C2 PFHxA



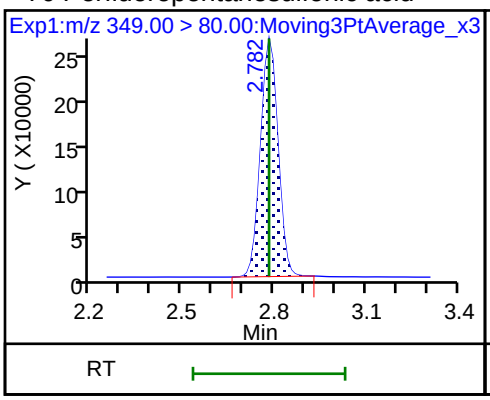
6 Perfluorohexanoic acid (M)



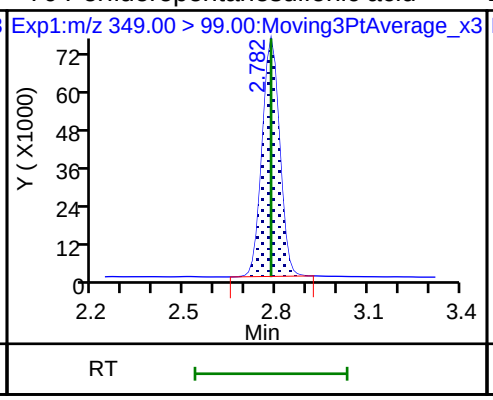
6 Perfluorohexanoic acid (M)



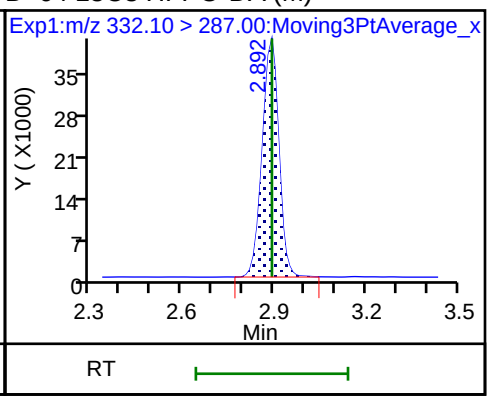
70 Perfluoropentanesulfonic acid



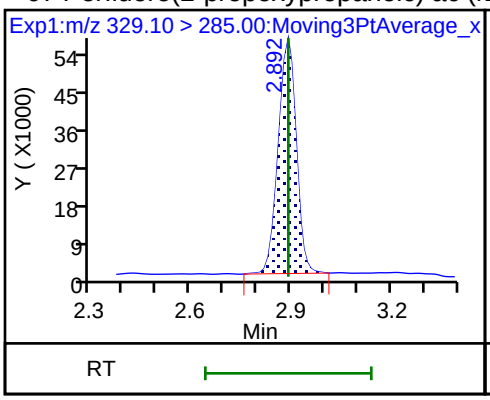
70 Perfluoropentanesulfonic acid



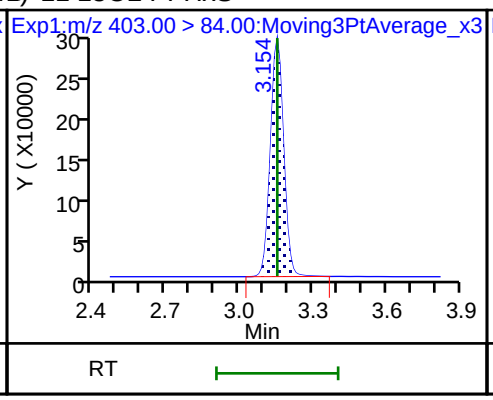
D 64 13C3 HFPO-DA (M)



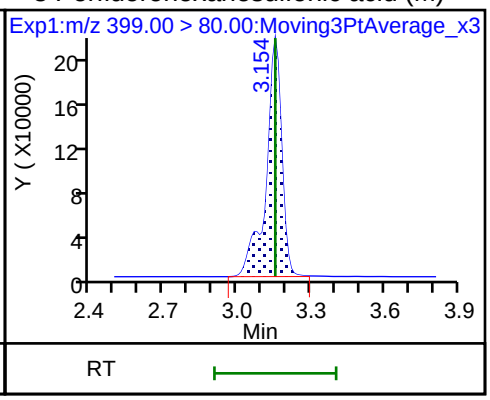
67 Perfluoro(2-propoxypropanoic) ac (M)



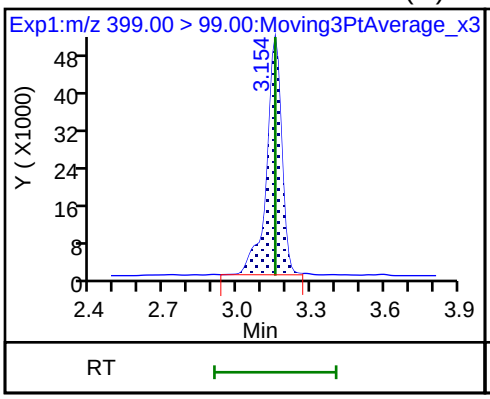
D 11 18O2 PFHxS



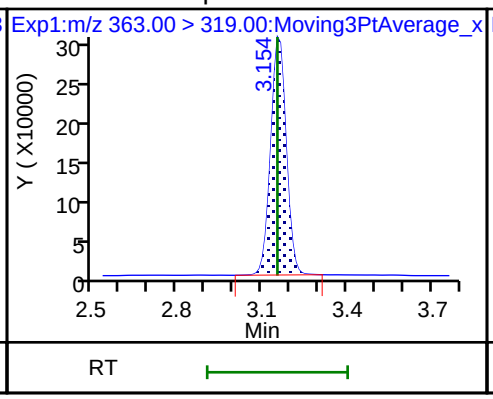
8 Perfluorohexanesulfonic acid (M)



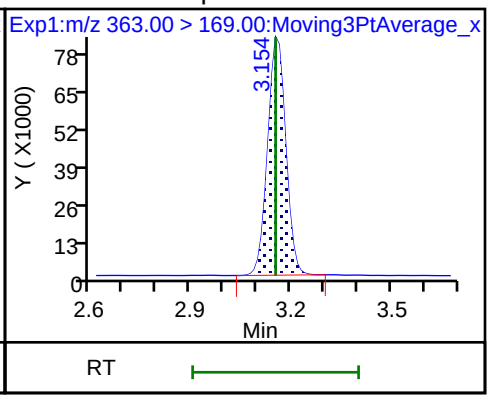
8 Perfluorohexanesulfonic acid (M)



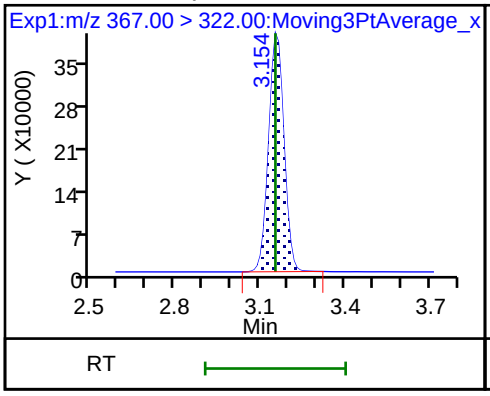
10 Perfluoroheptanoic acid



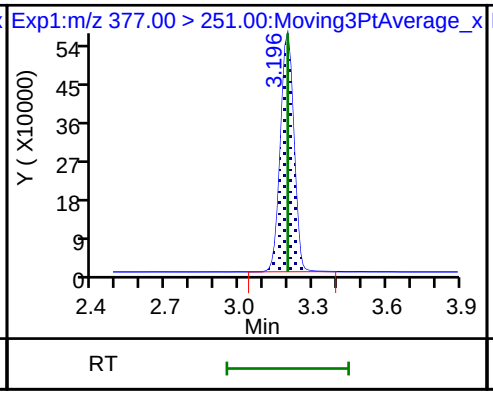
10 Perfluoroheptanoic acid



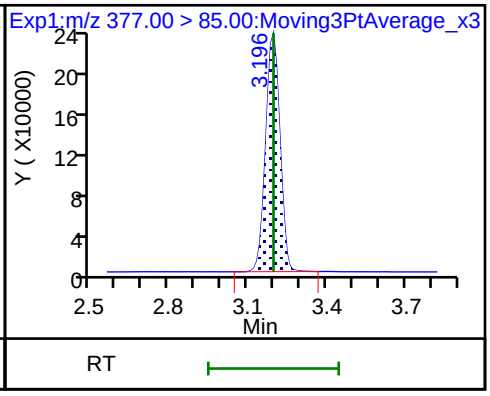
D 9 13C4 PFHpA



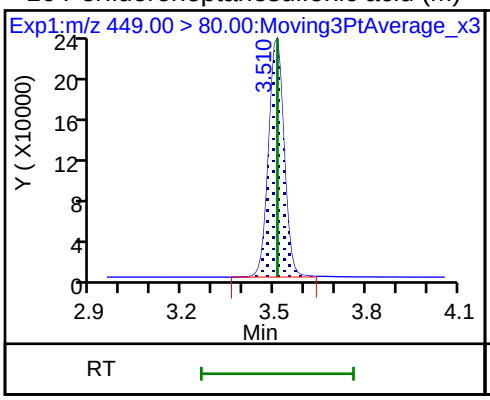
77 DONA



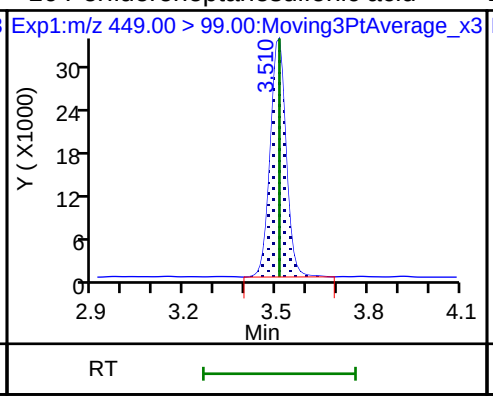
77 DONA



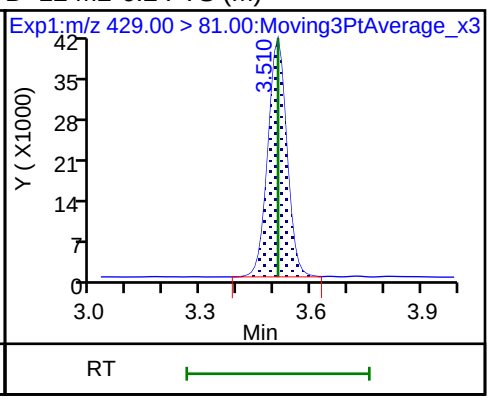
16 Perfluoroheptanesulfonic acid (M)



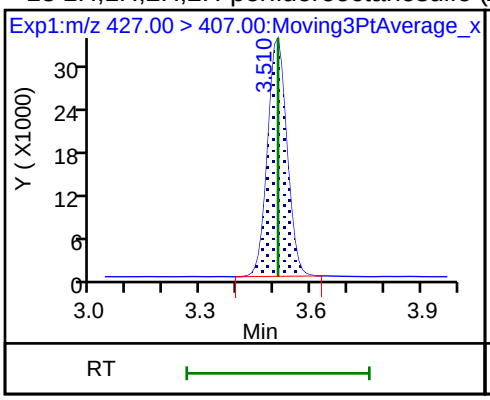
16 Perfluoroheptanesulfonic acid



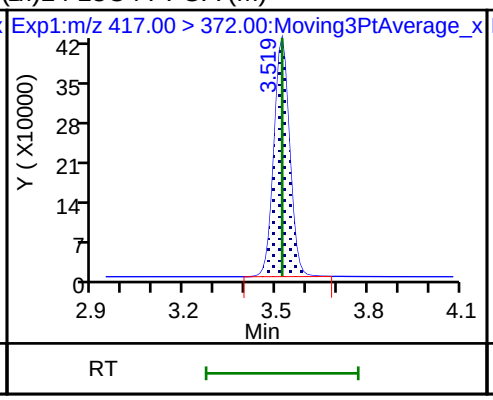
D 12 M2-6:2 FTS (M)



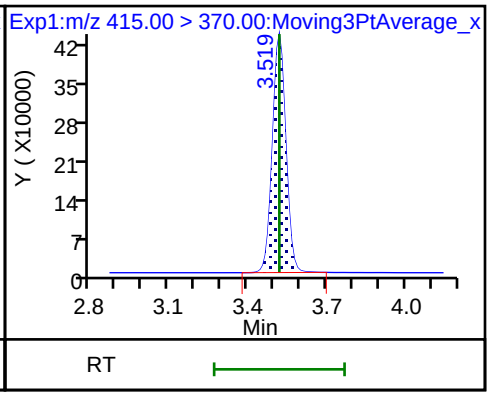
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



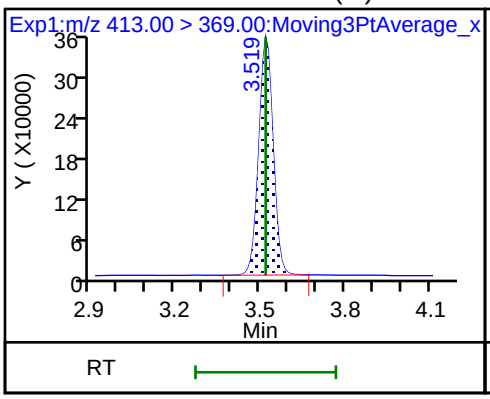
D 14 13C4 PFOA (M)



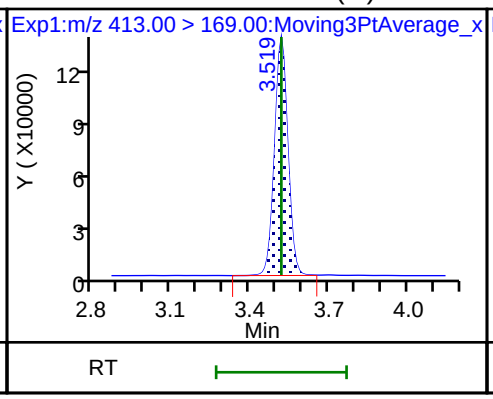
* 62 13C2 PFOA



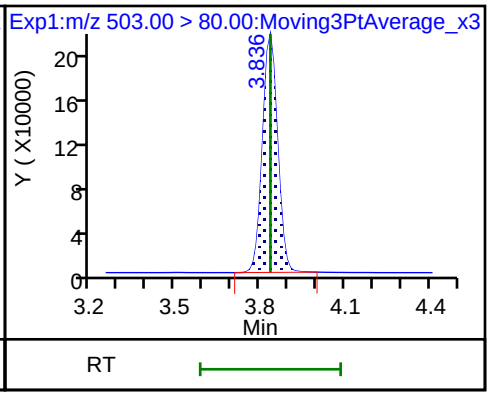
15 Perfluorooctanoic acid (M)



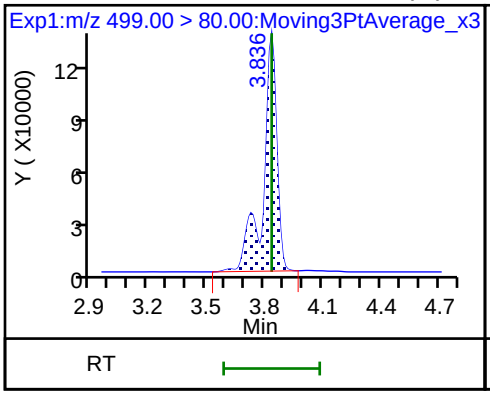
15 Perfluorooctanoic acid (M)



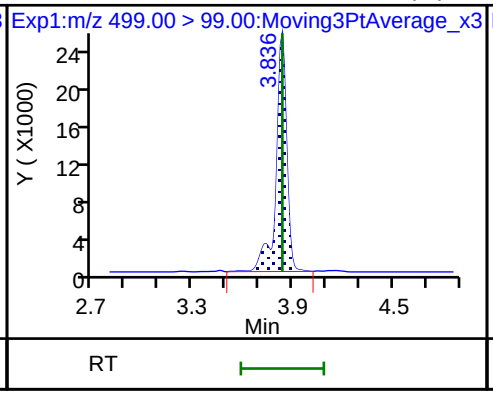
D 18 13C4 PFOS



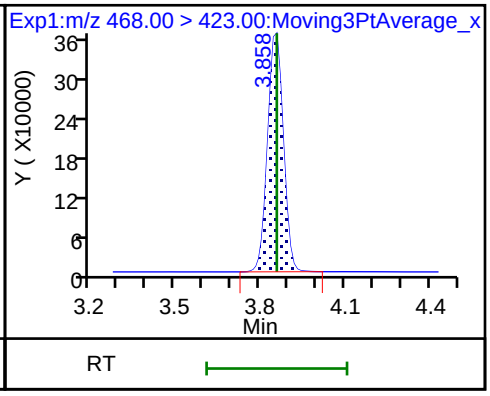
17 Perfluorooctanesulfonic acid (M)



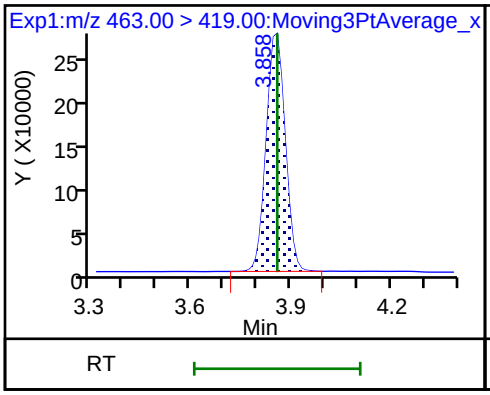
17 Perfluorooctanesulfonic acid (M)



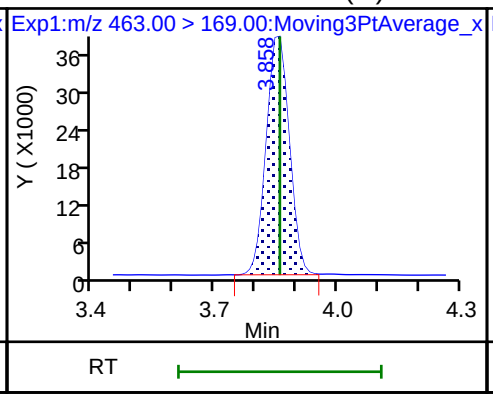
D 19 13C5 PFNA



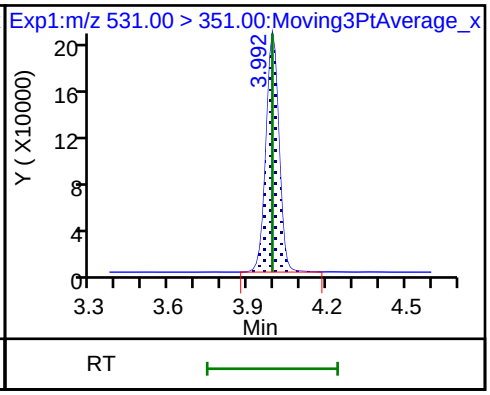
20 Perfluorononanoic acid



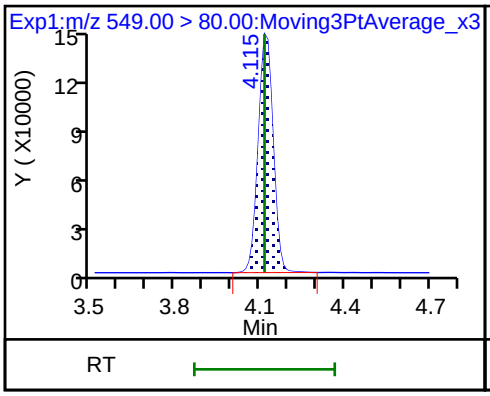
20 Perfluorononanoic acid (M)



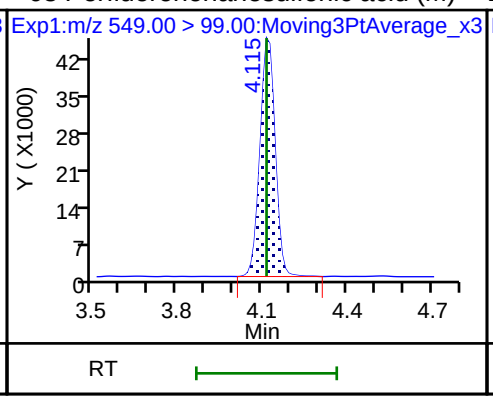
69 9-Chlorohexadecafluoro-3-oxanona (M)



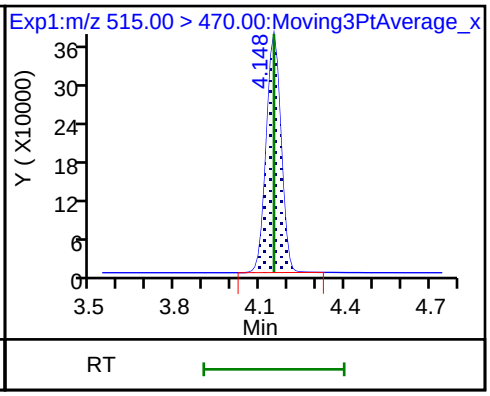
68 Perfluorononanesulfonic acid



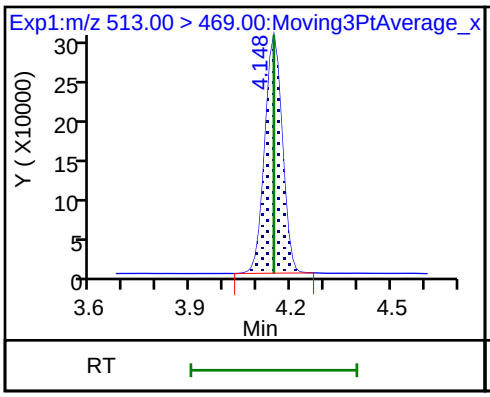
68 Perfluorononanesulfonic acid (M)



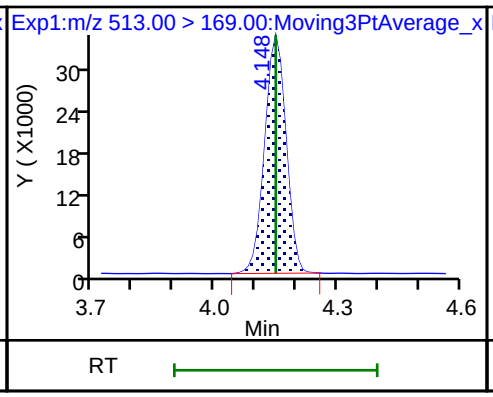
D 23 13C2 PFDA



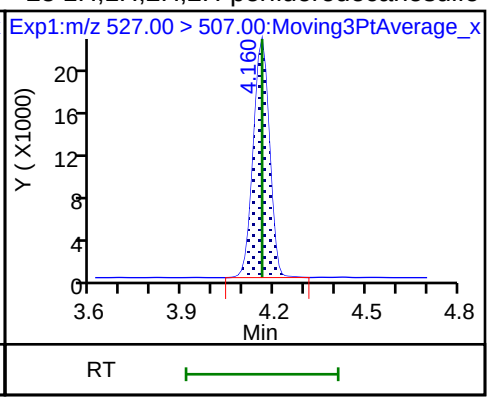
24 Perfluorodecanoic acid



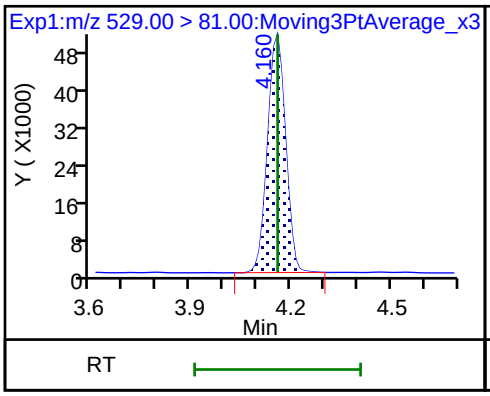
24 Perfluorodecanoic acid



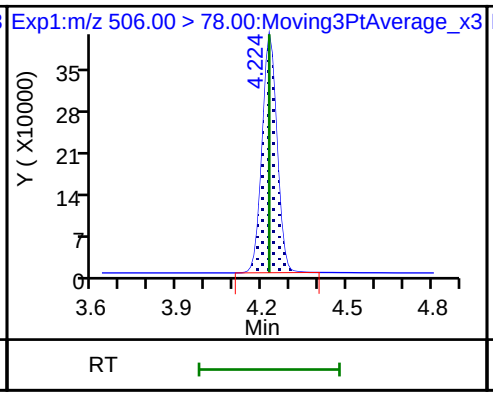
25 1H,1H,2H,2H-perfluorodecanesulfo



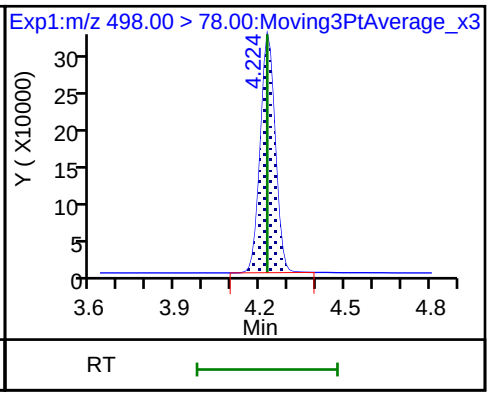
D 26 M2-8:2 FTS



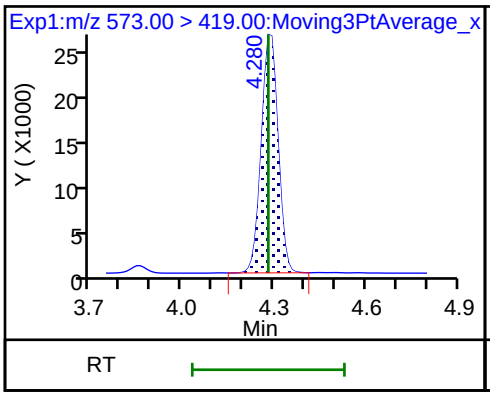
D 21 13C8 FOSA



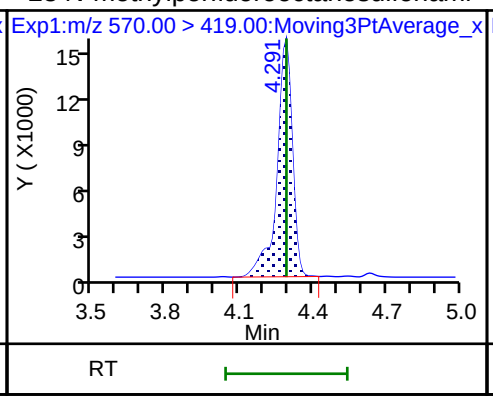
22 Perfluorooctanesulfonamide



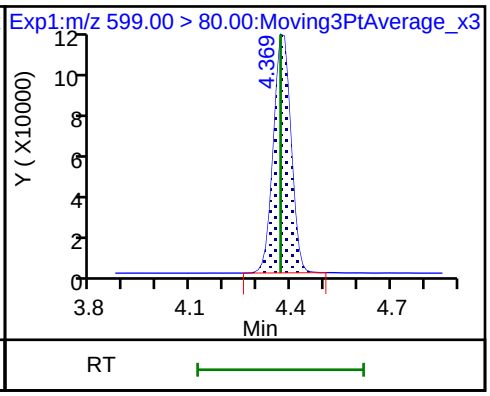
D 27 d3-NMeFOSAA



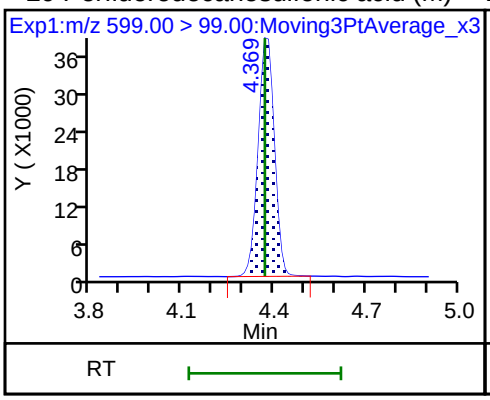
28 N-methylperfluorooctanesulfonami



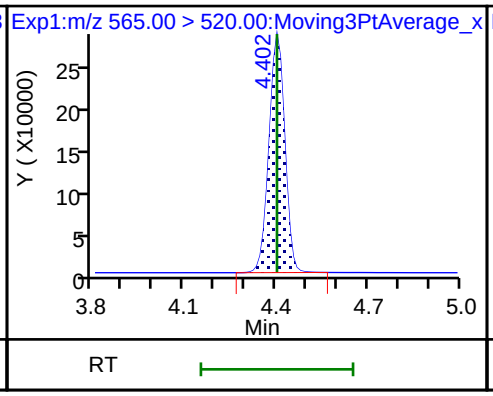
29 Perfluorodecanesulfonic acid



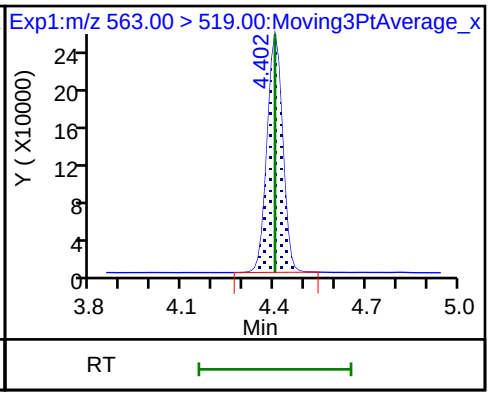
29 Perfluorodecanesulfonic acid (M)



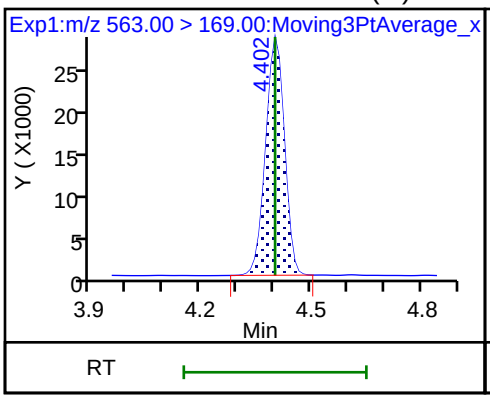
D 30 13C2 PFUnA



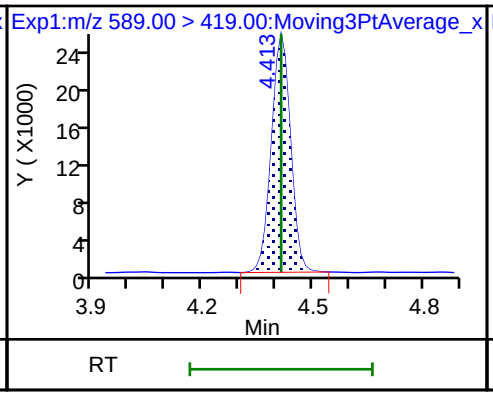
31 Perfluoroundecanoic acid



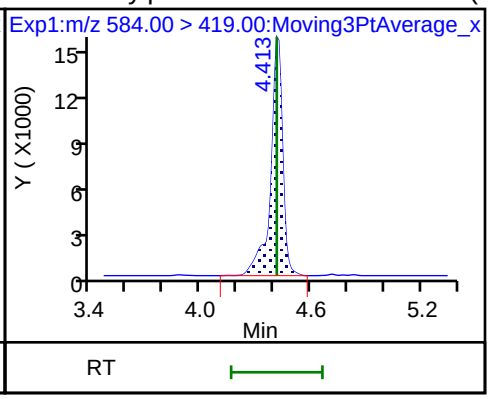
31 Perfluoroundecanoic acid (M)



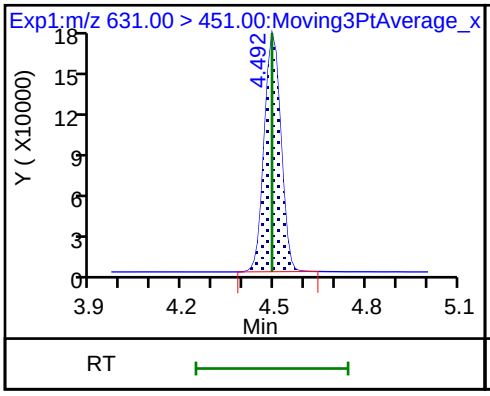
D 32 d5-NEtFOSAA



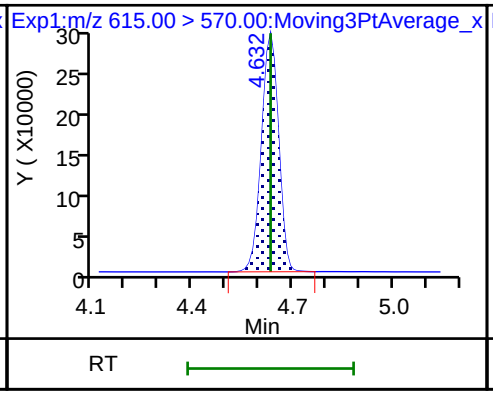
33 N-ethylperfluorooctanesulfonamid (M)



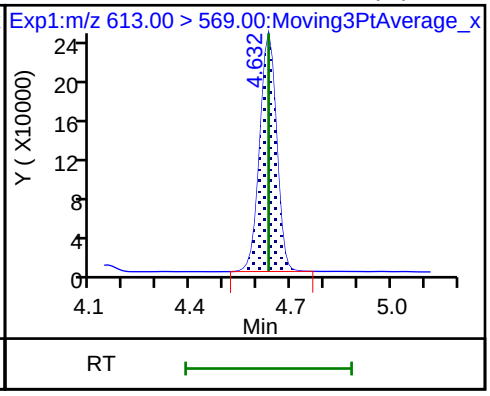
66 11-Chloroeicosafluoro-3-oxaundec



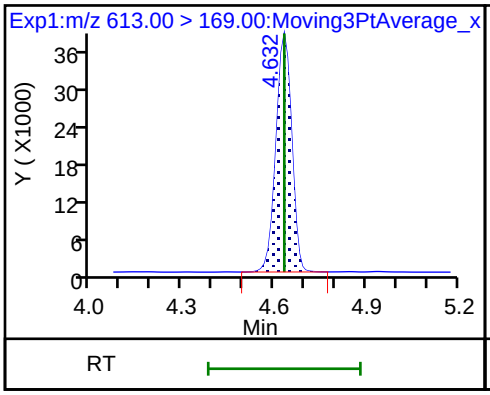
D 36 13C2 PFDoA



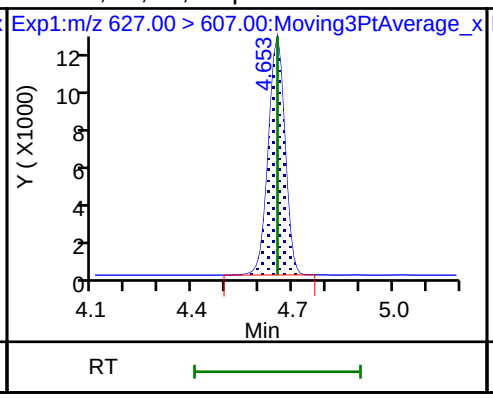
37 Perfluorododecanoic acid (M)



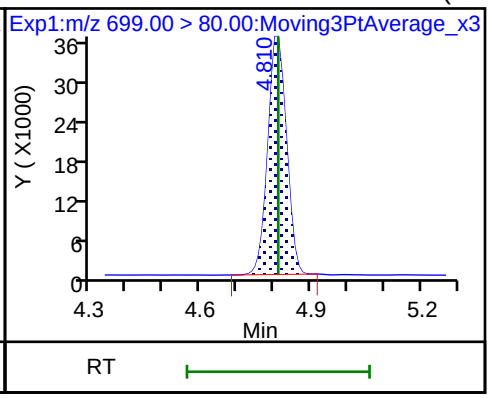
37 Perfluorododecanoic acid



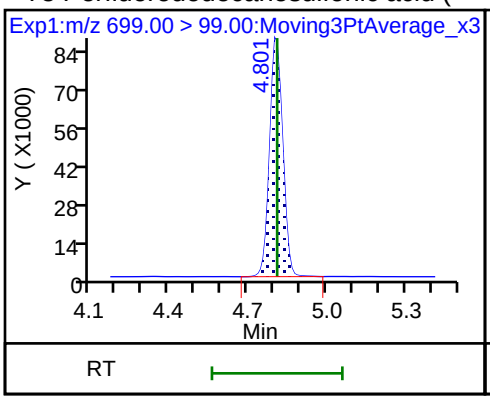
74 1H,1H,2H,2H-perfluorododecanesul



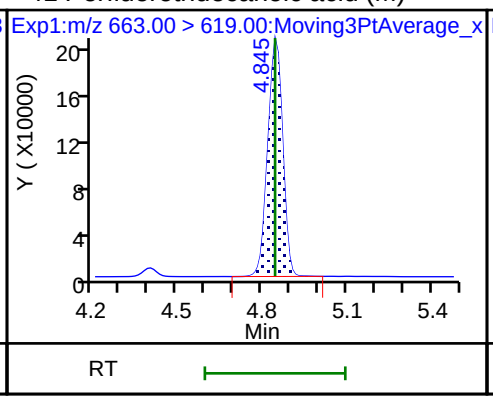
75 Perfluorododecanesulfonic acid (



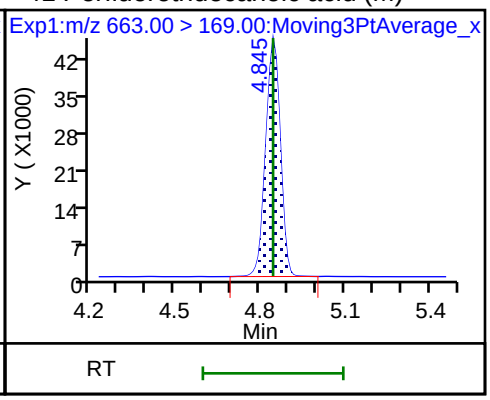
75 Perfluorododecanesulfonic acid (



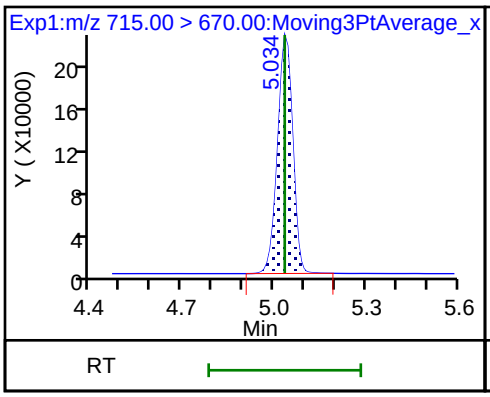
41 Perfluorotridecanoic acid (M)



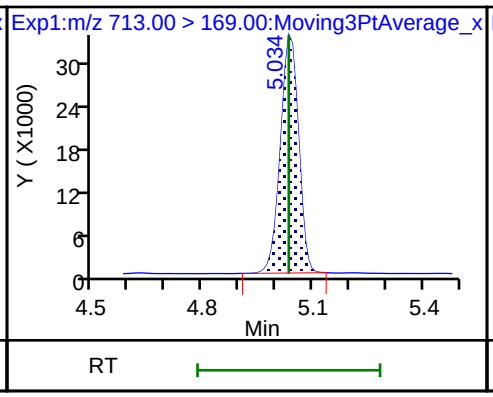
41 Perfluorotridecanoic acid (M)



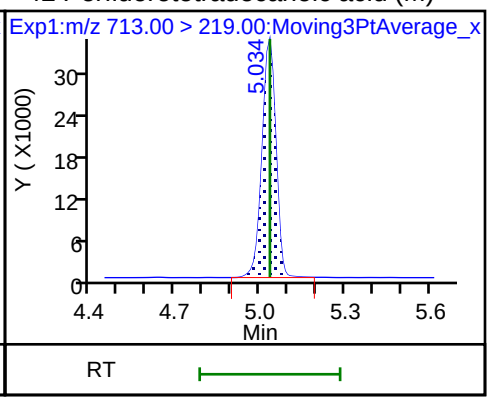
D 43 13C2 PFTeDA



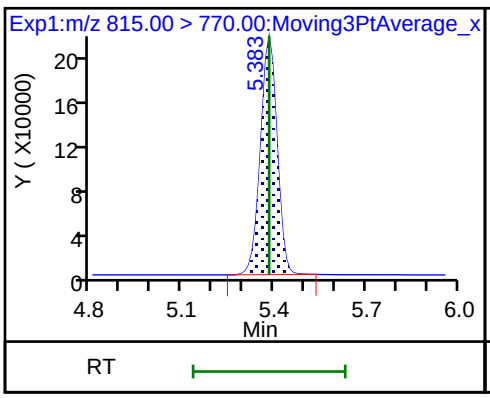
42 Perfluorotetradecanoic acid



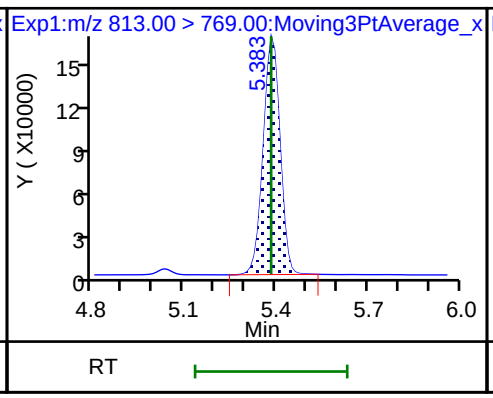
42 Perfluorotetradecanoic acid (M)



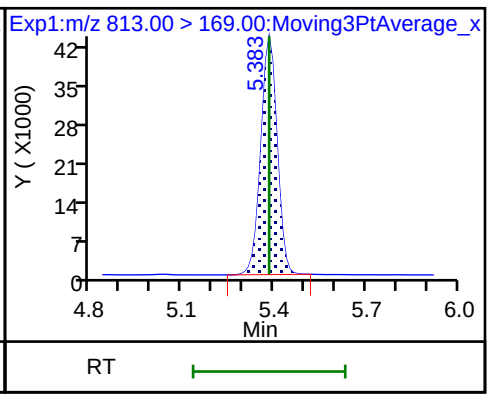
D 44 13C2 PFHxDA



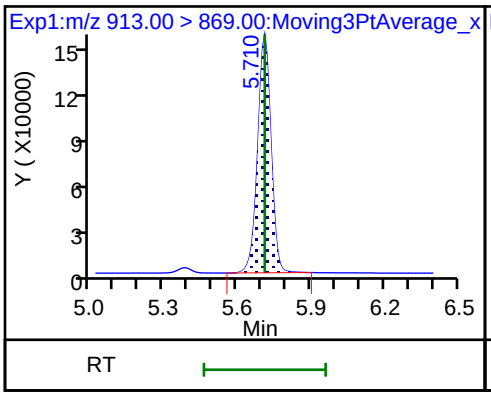
45 Perfluorohexadecanoic acid



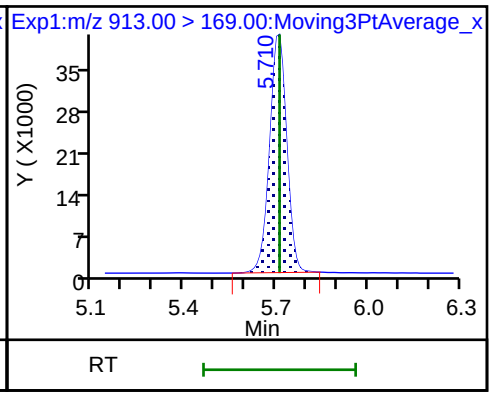
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

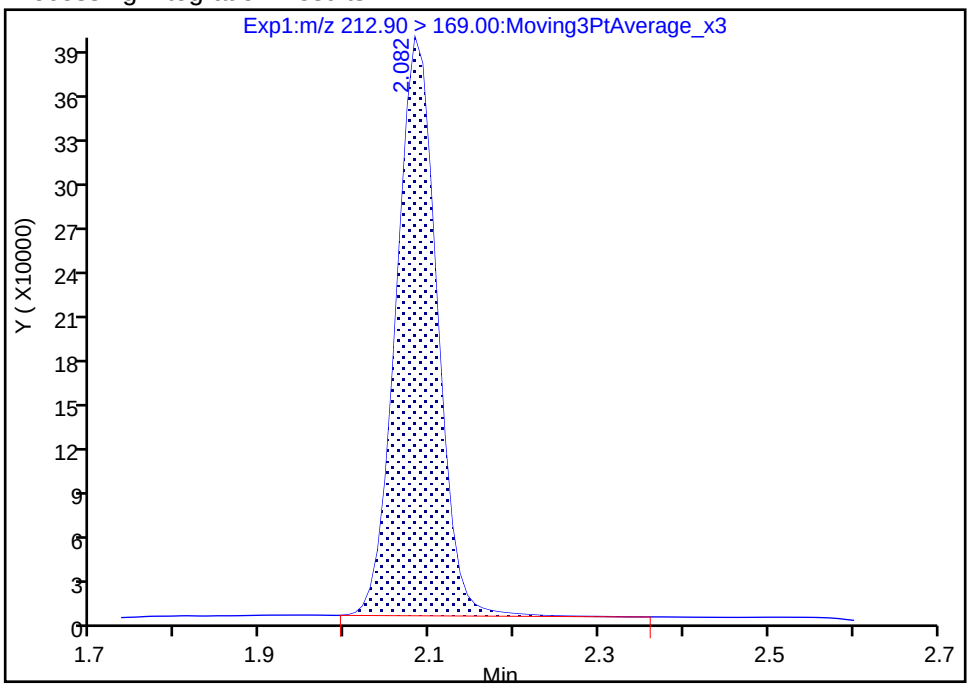
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Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

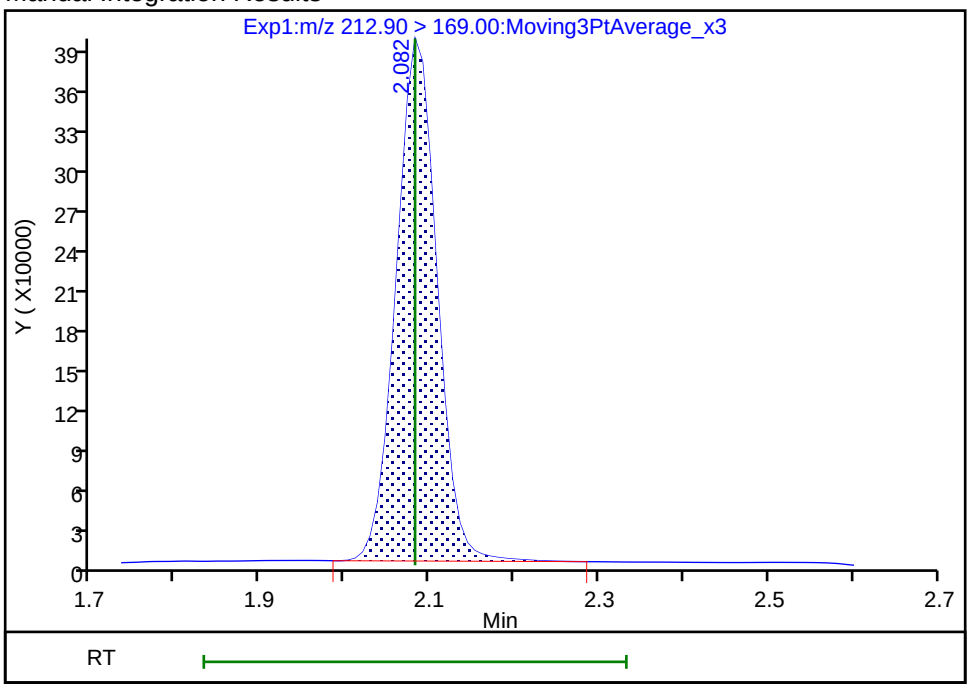
Processing Integration Results

RT: 2.08
Area: 1295524
Amount: 0.975996
Amount Units: ng/ml



Manual Integration Results

RT: 2.08
Area: 1293700
Amount: 0.974622
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:46:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

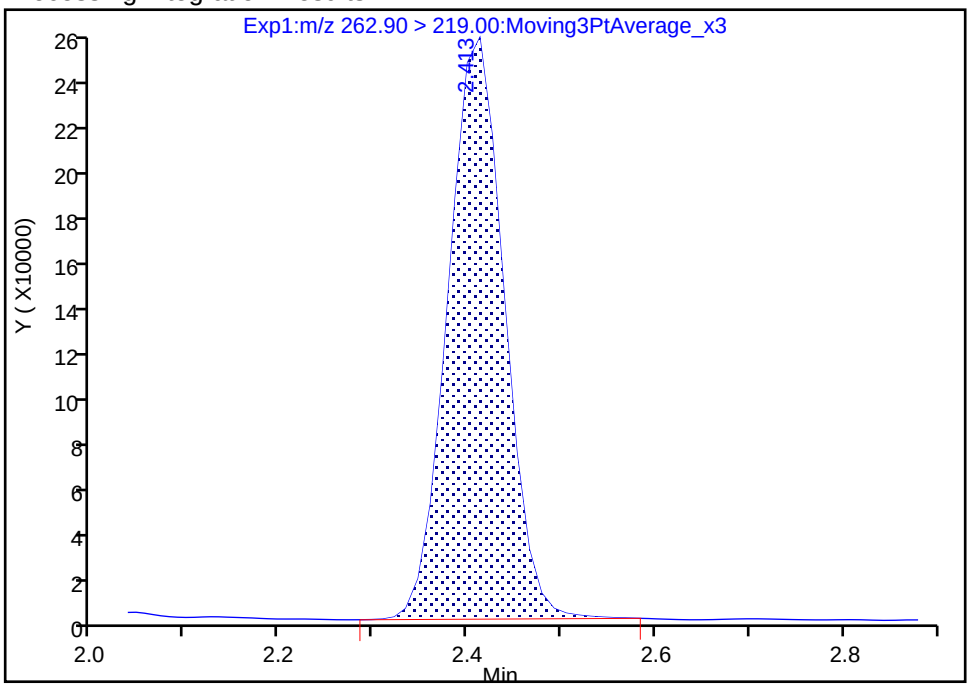
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Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

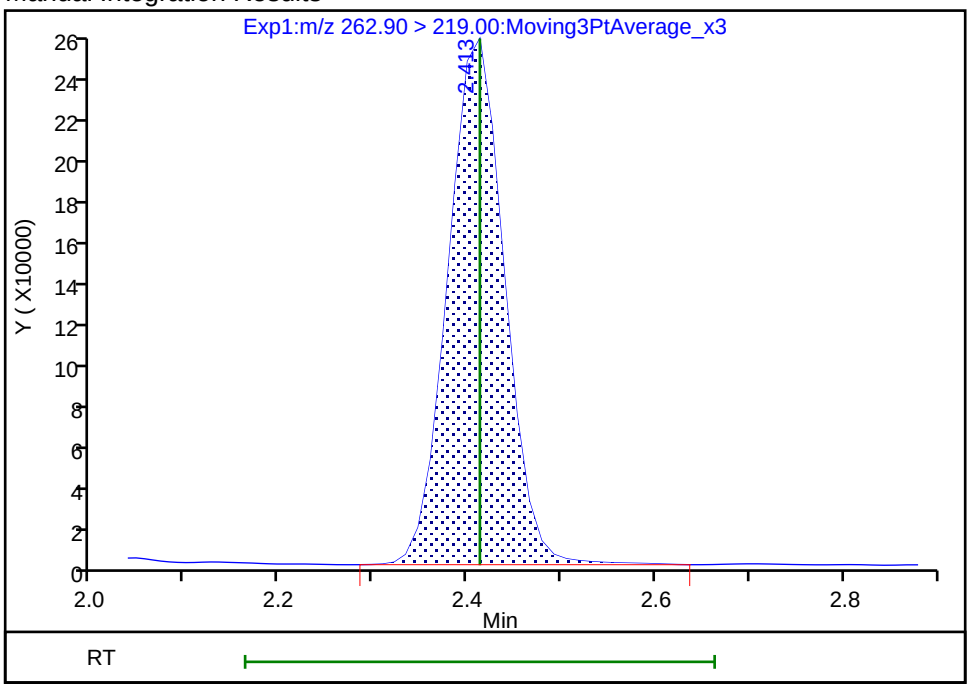
Processing Integration Results

RT: 2.41
Area: 1034830
Amount: 0.983523
Amount Units: ng/ml



Manual Integration Results

RT: 2.41
Area: 1041121
Amount: 0.989503
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:46:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

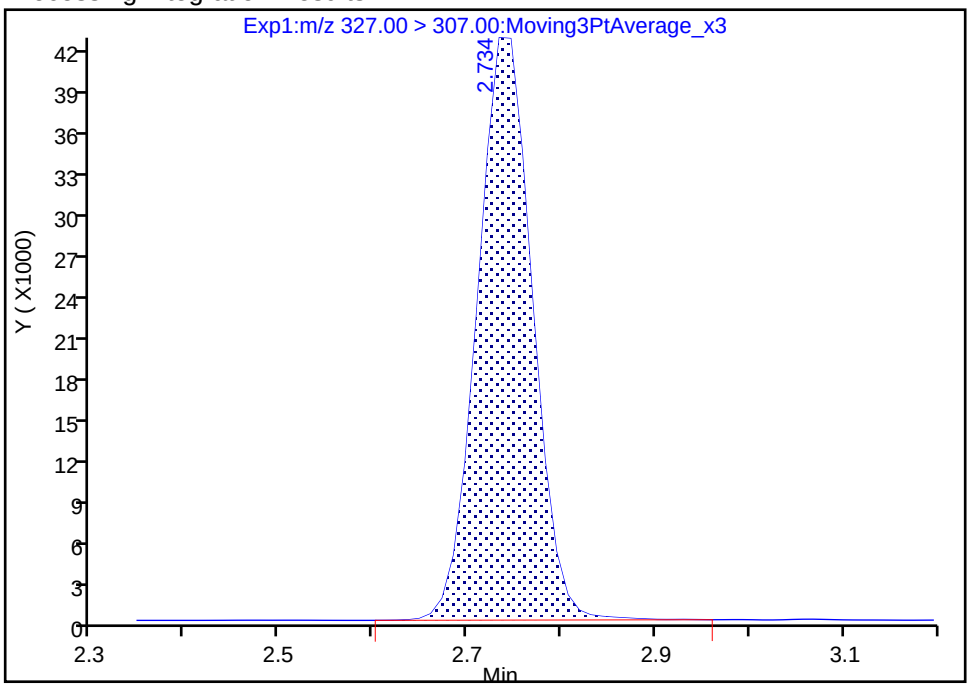
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Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

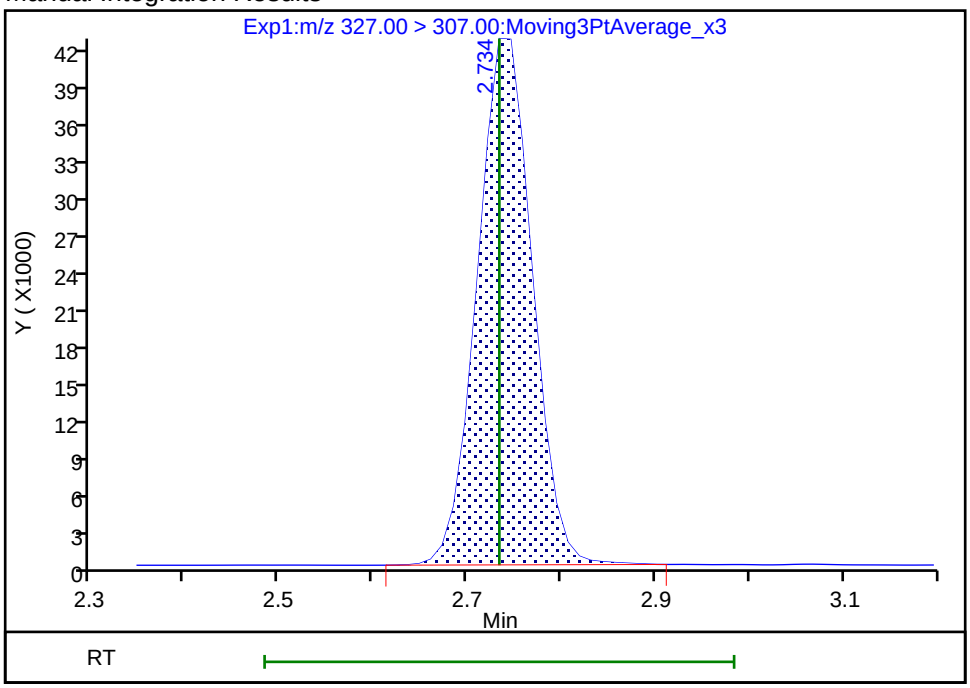
Processing Integration Results

RT: 2.73
Area: 172104
Amount: 0.925593
Amount Units: ng/ml



Manual Integration Results

RT: 2.73
Area: 171841
Amount: 0.924179
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:46:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

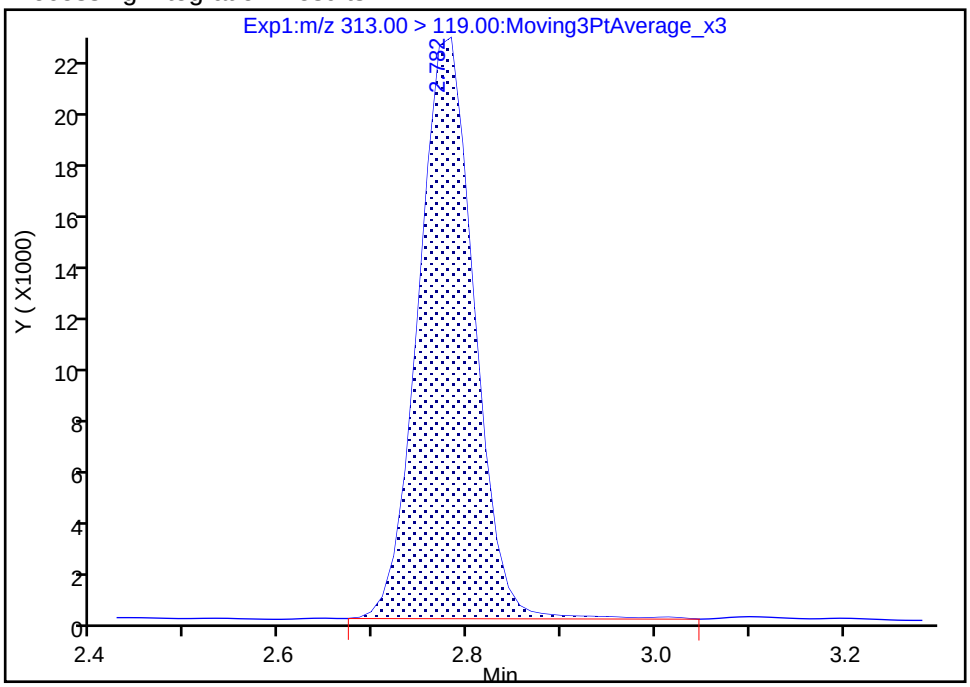
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Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

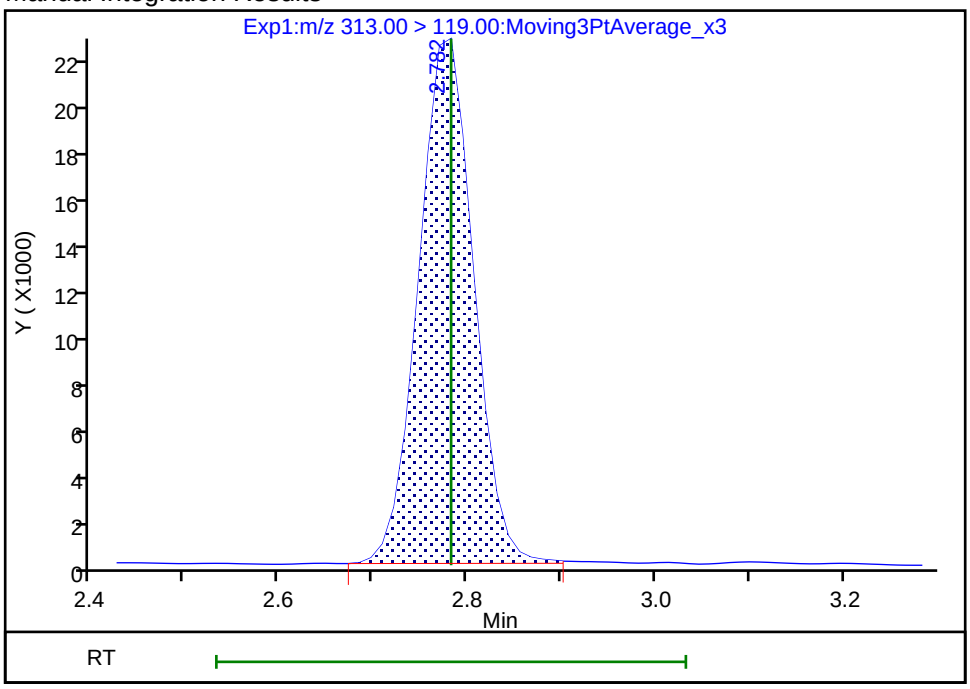
Processing Integration Results

RT: 2.78
Area: 91207
Amount: 1.017451
Amount Units: ng/ml



Manual Integration Results

RT: 2.78
Area: 90444
Amount: 1.016685
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:46:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

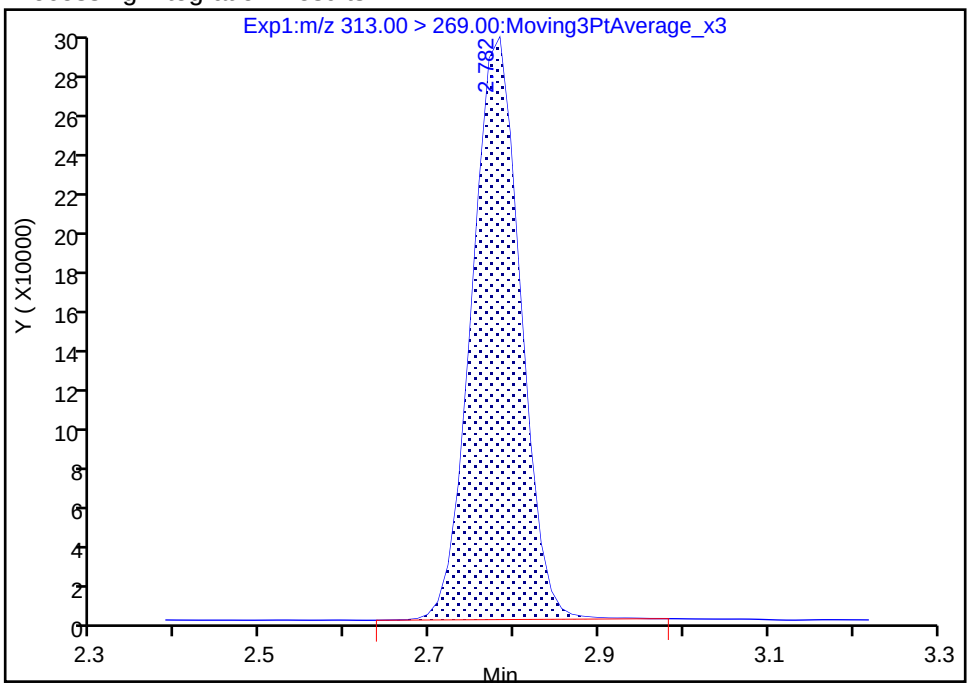
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

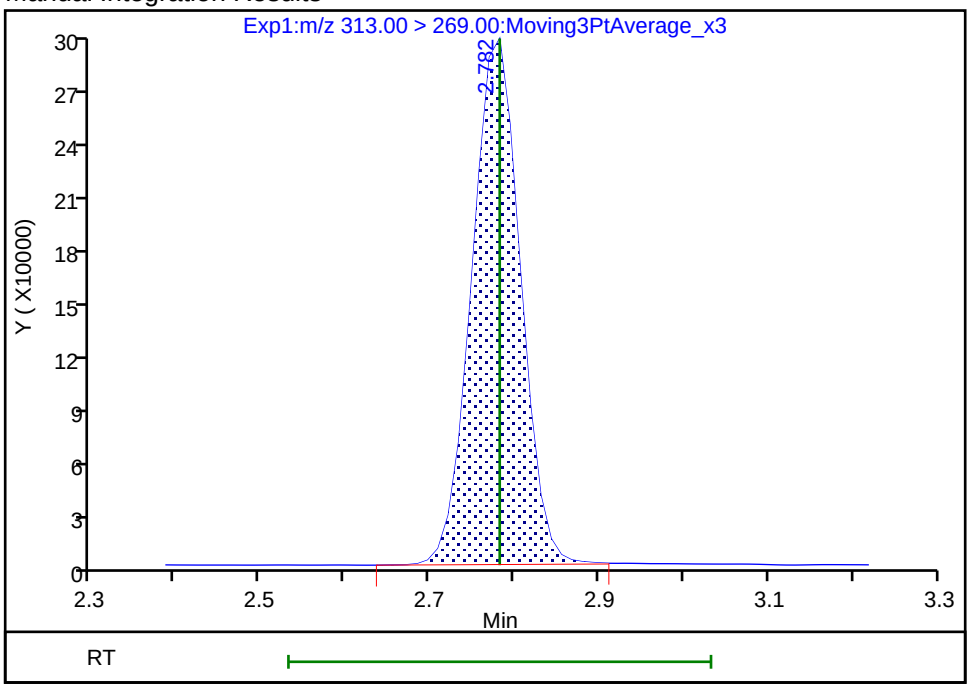
Processing Integration Results

RT: 2.78
Area: 1156633
Amount: 1.017451
Amount Units: ng/ml



Manual Integration Results

RT: 2.78
Area: 1155763
Amount: 1.016685
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:46:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

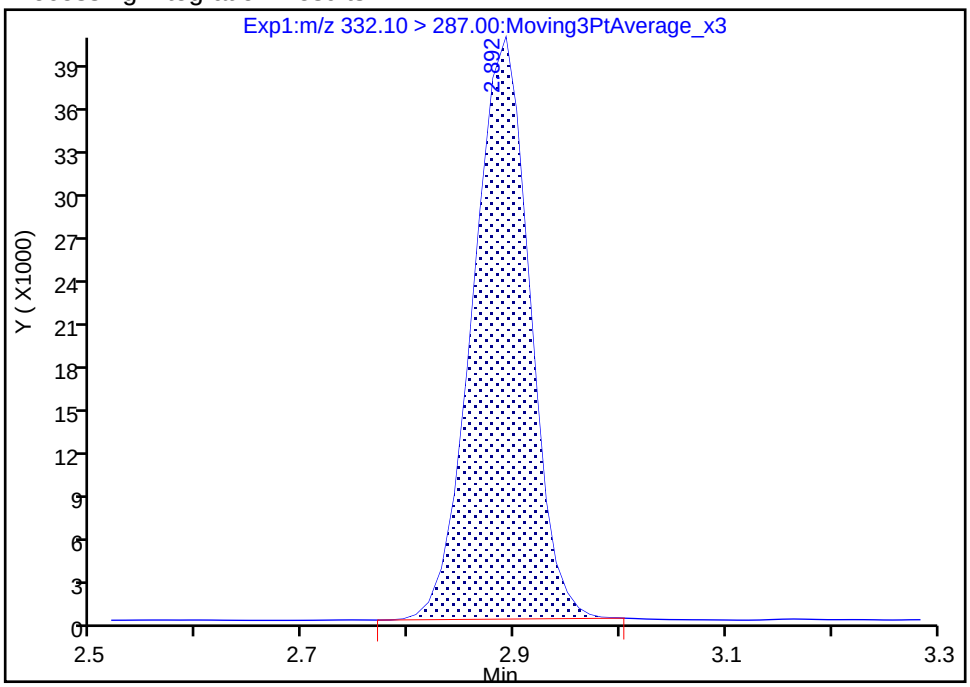
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

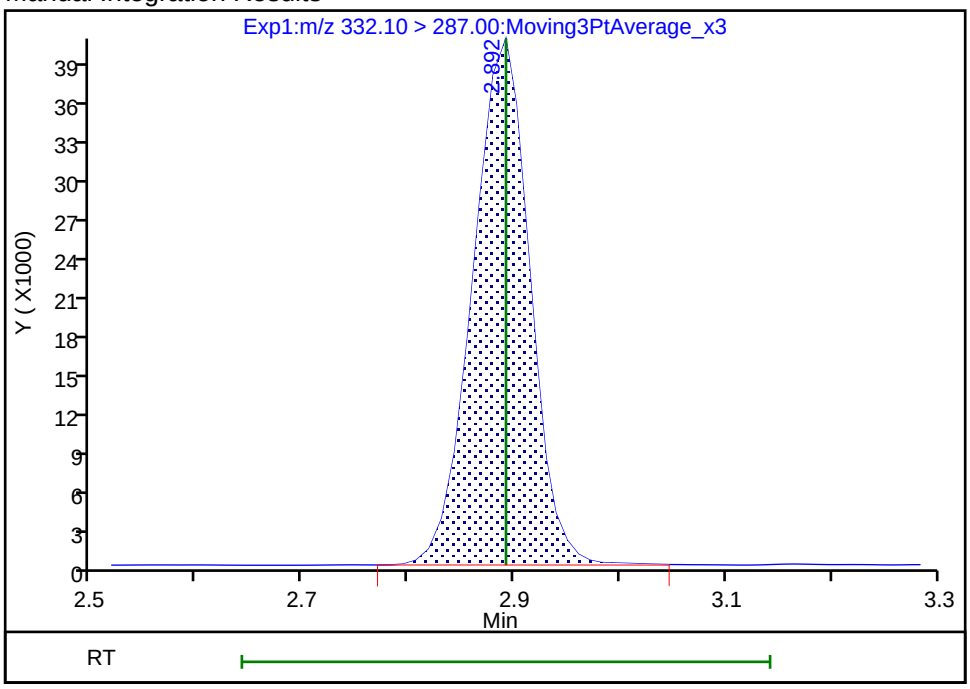
Processing Integration Results

RT: 2.89
Area: 149855
Amount: 1.189971
Amount Units: ng/ml



Manual Integration Results

RT: 2.89
Area: 151021
Amount: 1.199230
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:41:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

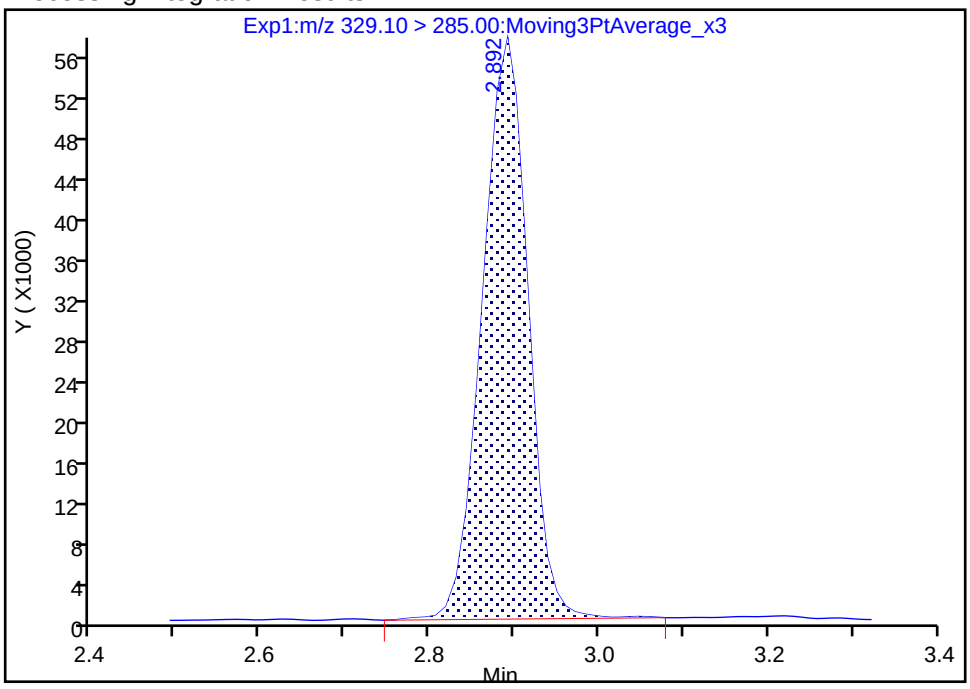
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

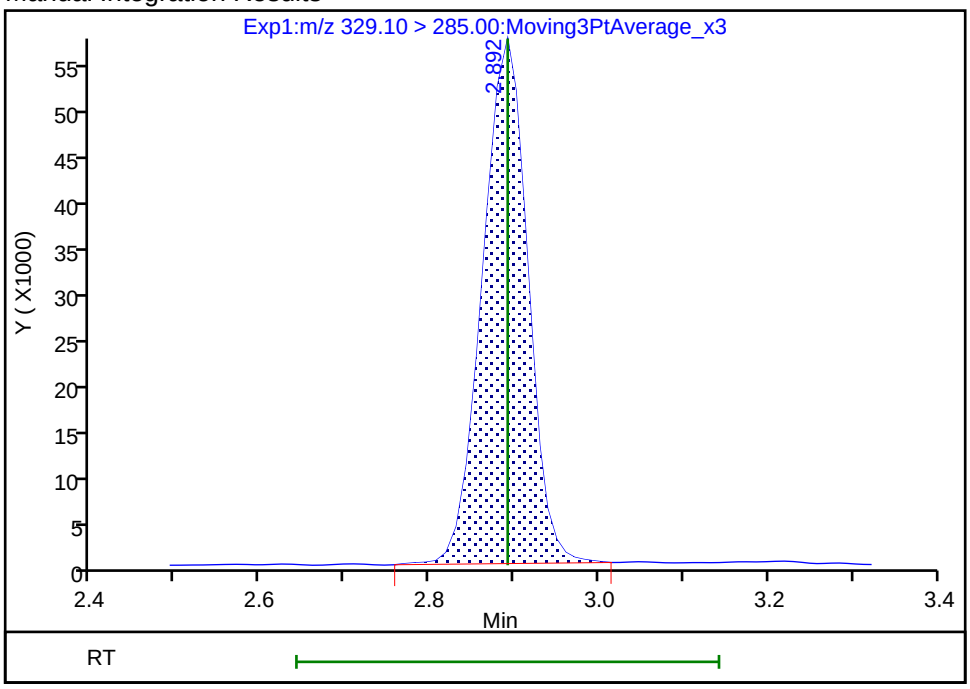
Processing Integration Results

RT: 2.89
Area: 211200
Amount: 1.057043
Amount Units: ng/ml



Manual Integration Results

RT: 2.89
Area: 210018
Amount: 1.051127
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:47:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

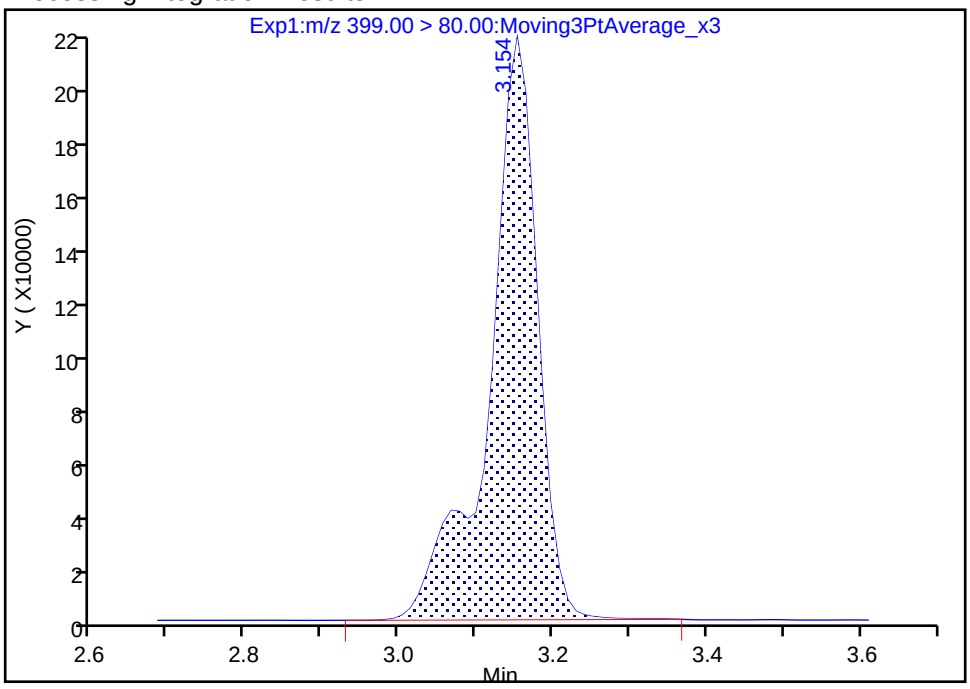
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

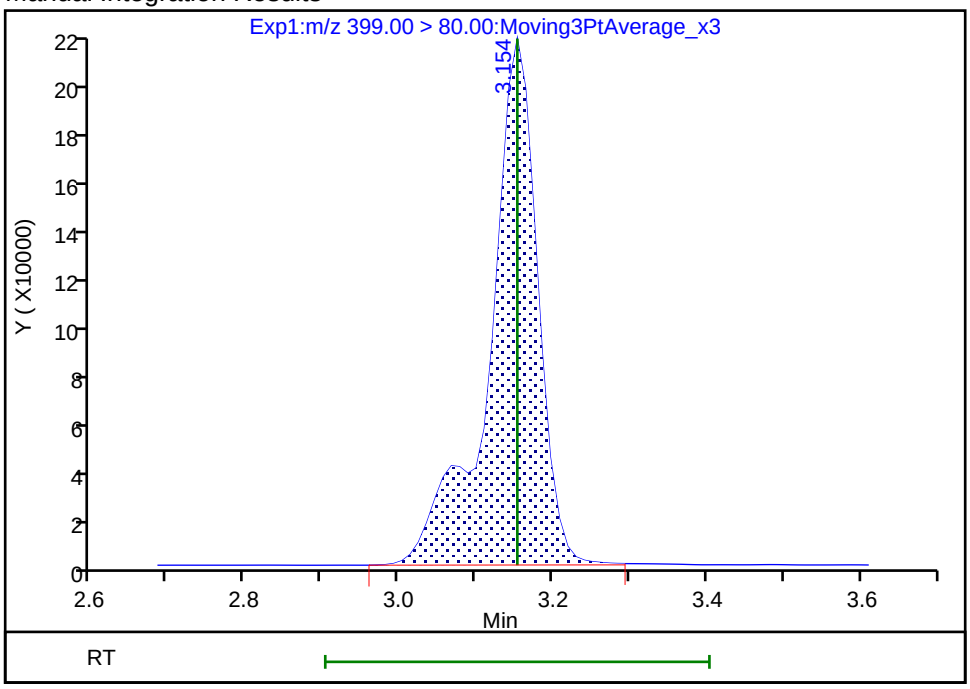
Processing Integration Results

RT: 3.15
Area: 962016
Amount: 0.903022
Amount Units: ng/ml



Manual Integration Results

RT: 3.15
Area: 962761
Amount: 0.903722
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:47:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

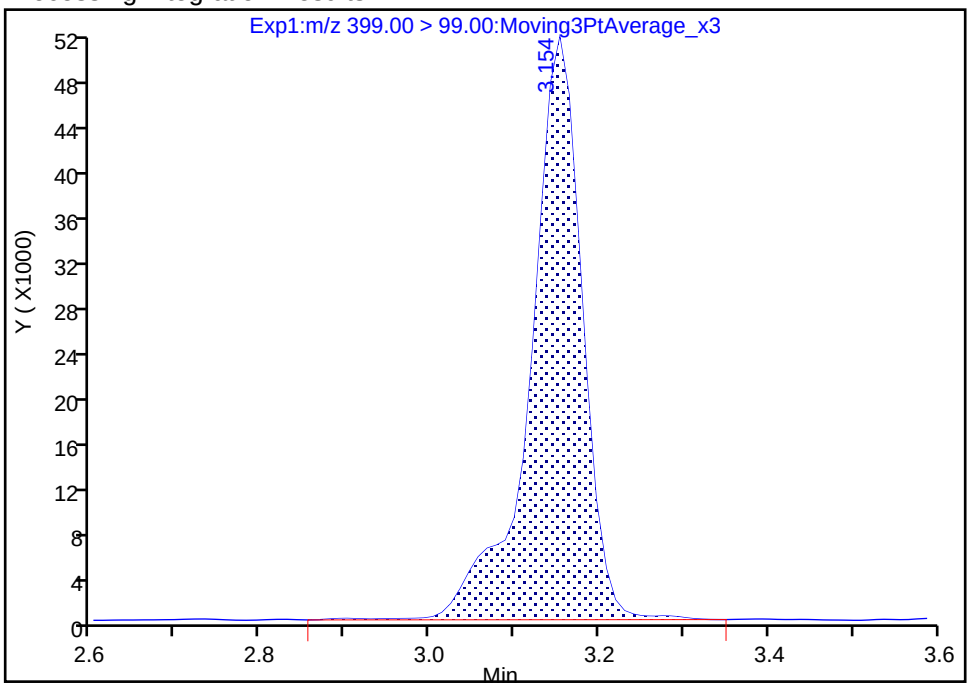
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

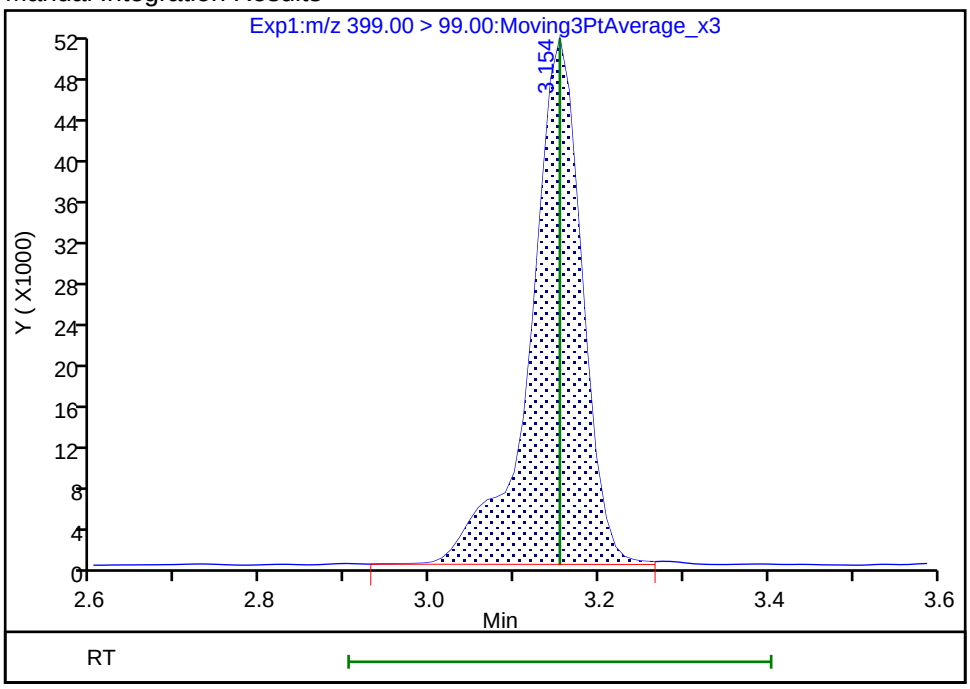
Processing Integration Results

RT: 3.15
Area: 217362
Amount: 0.903022
Amount Units: ng/ml



Manual Integration Results

RT: 3.15
Area: 215568
Amount: 0.903722
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:47:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

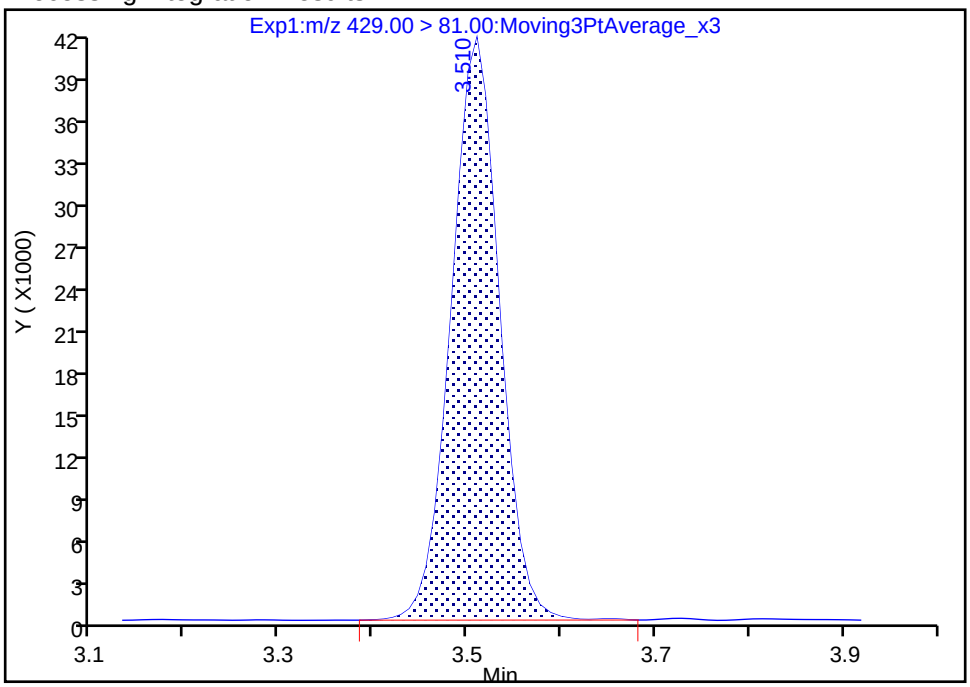
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

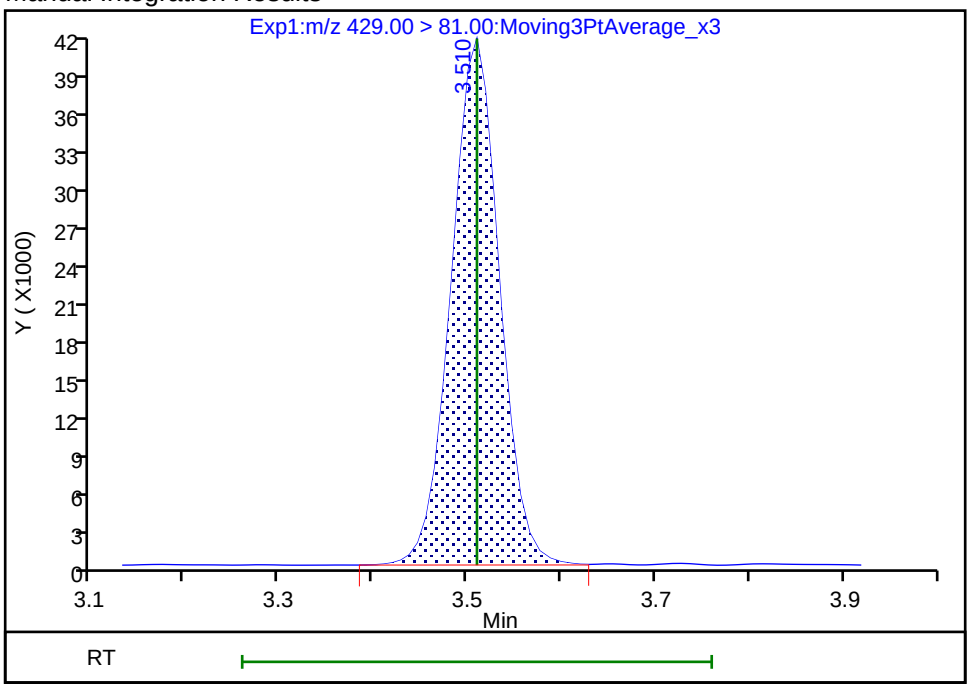
Processing Integration Results

RT: 3.51
Area: 147833
Amount: 1.196461
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 147665
Amount: 1.195101
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:42:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

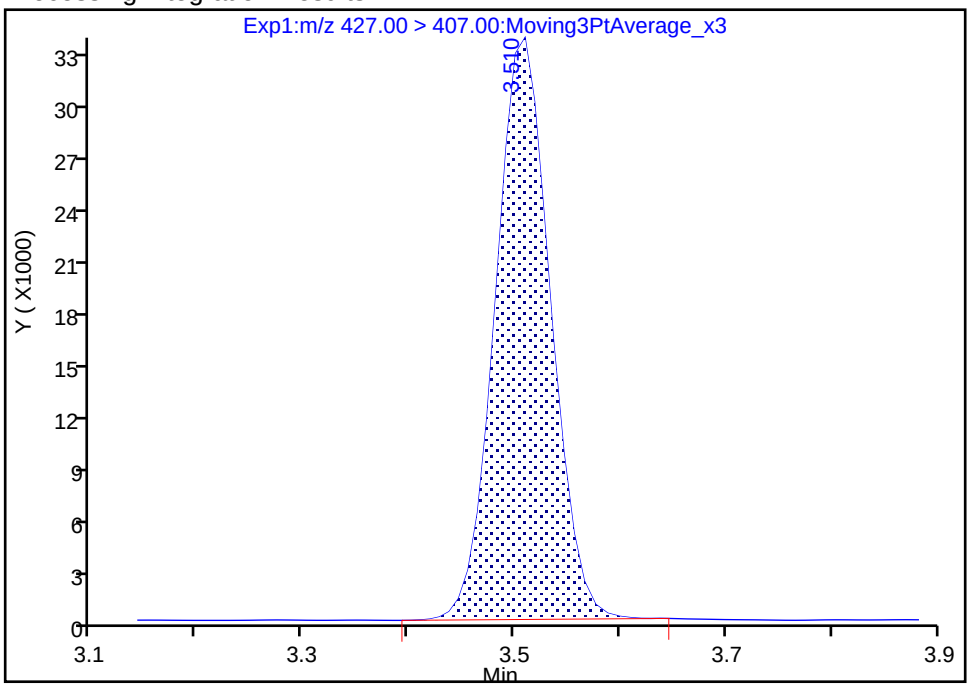
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

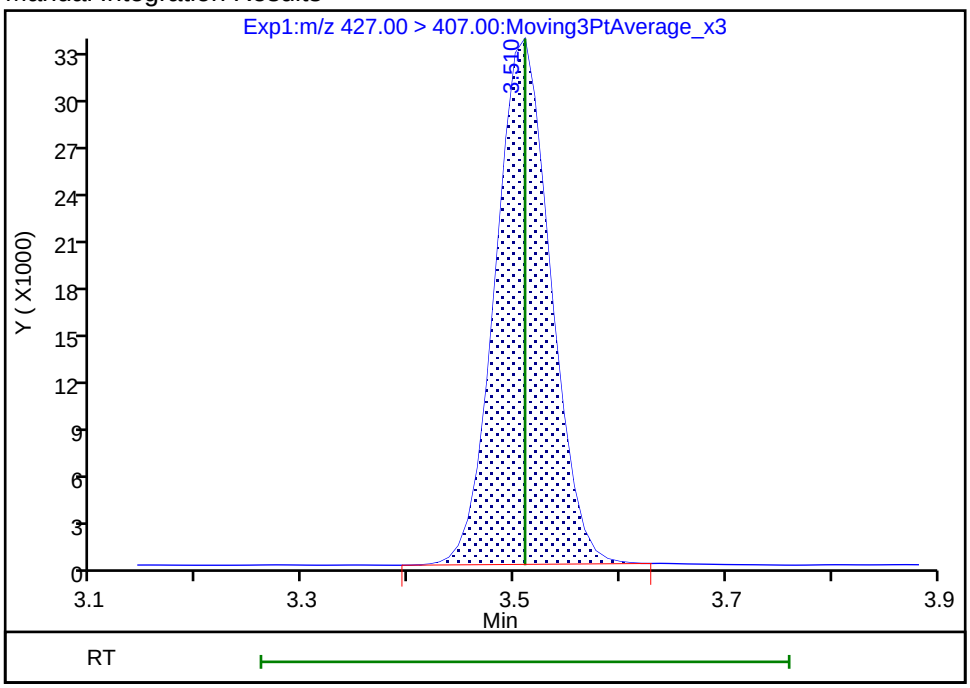
Processing Integration Results

RT: 3.51
Area: 120976
Amount: 0.938688
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 120914
Amount: 0.938207
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:48:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

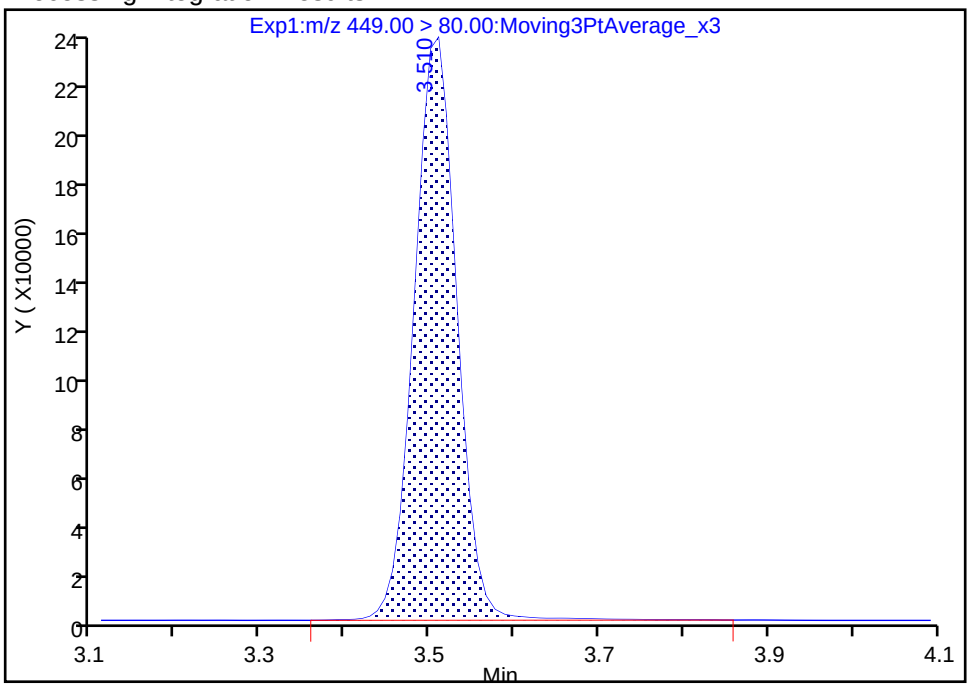
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

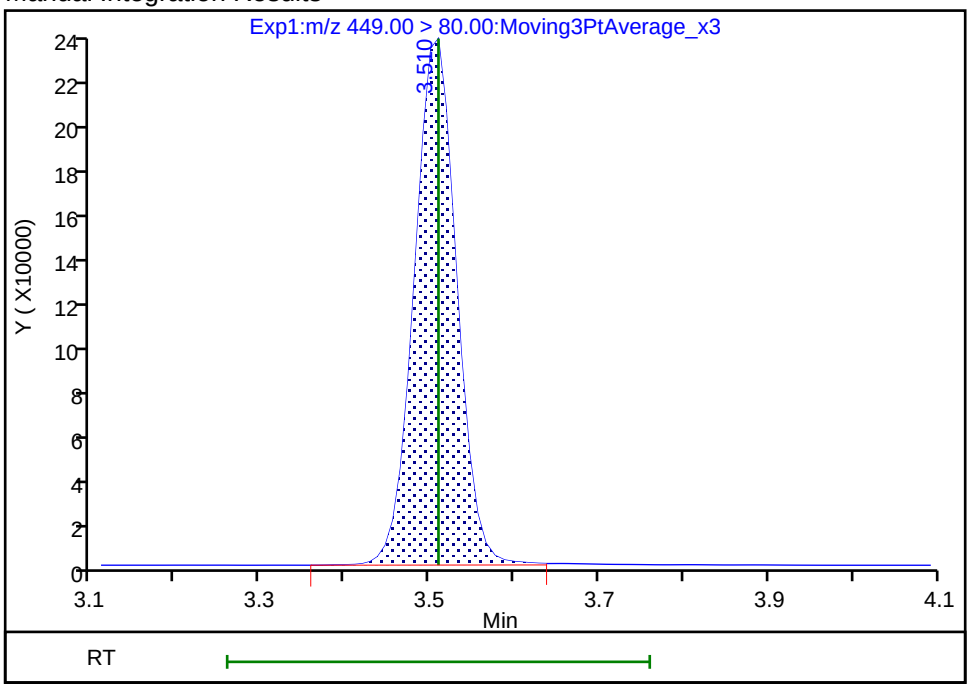
Processing Integration Results

RT: 3.51
Area: 812757
Amount: 0.988986
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 808548
Amount: 0.983864
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:48:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

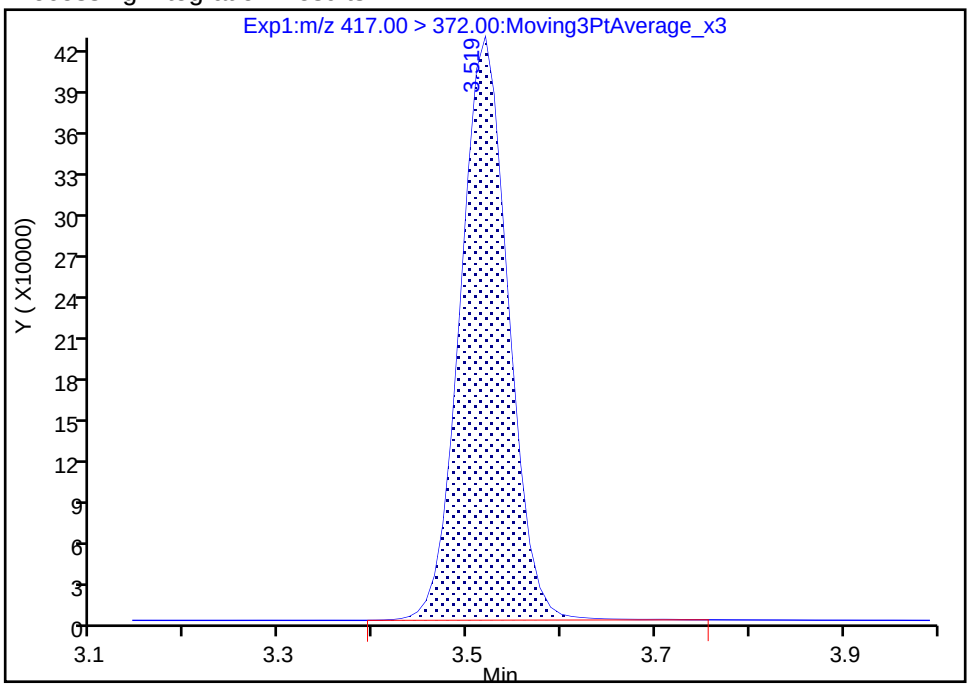
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

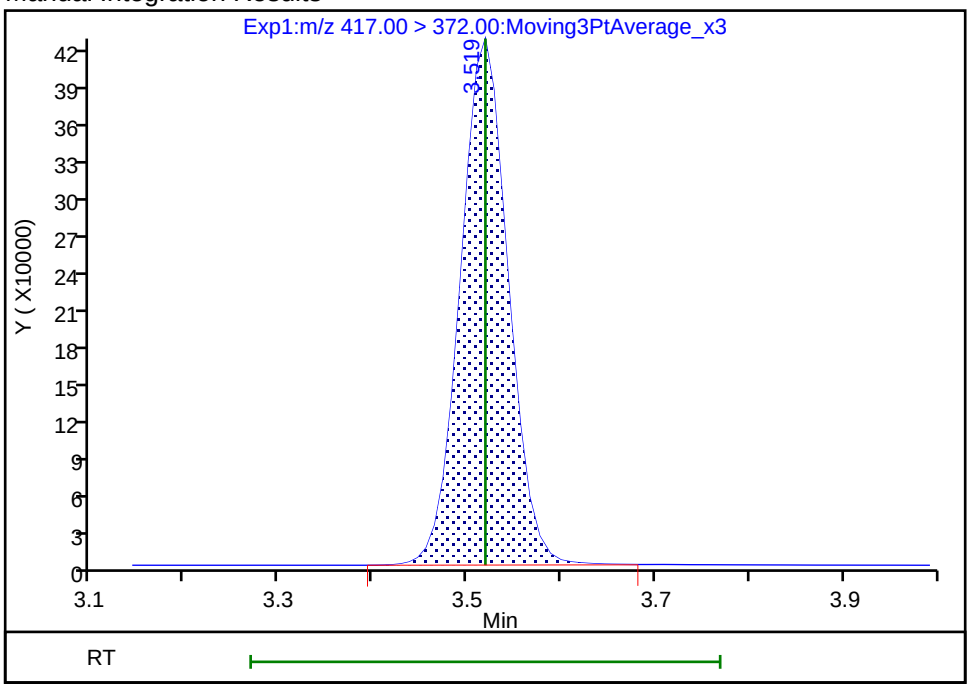
Processing Integration Results

RT: 3.52
Area: 1490754
Amount: 1.235393
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 1490005
Amount: 1.234772
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:42:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

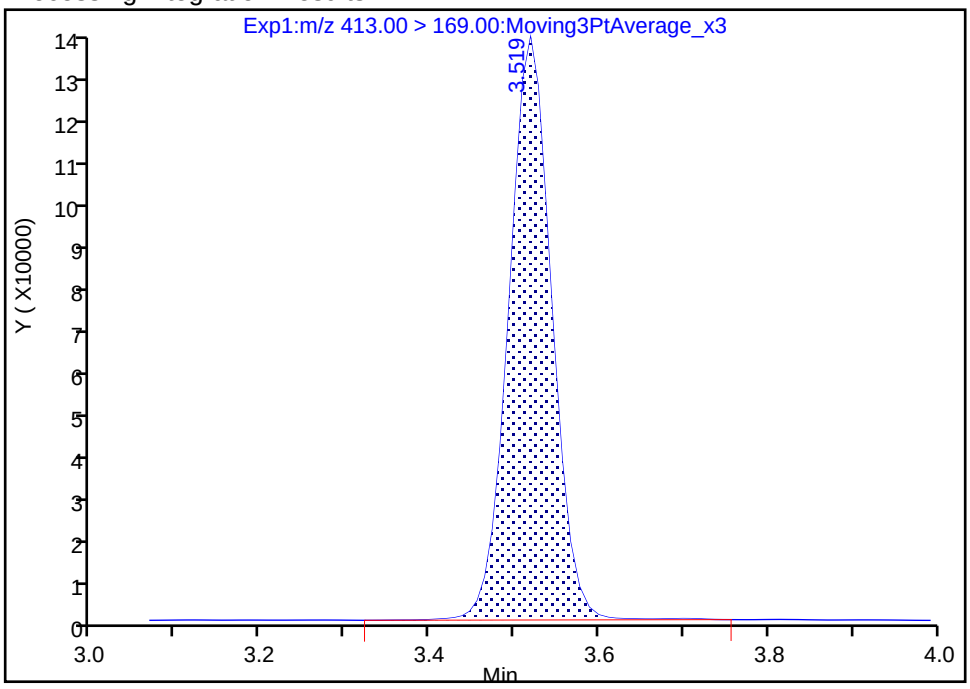
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

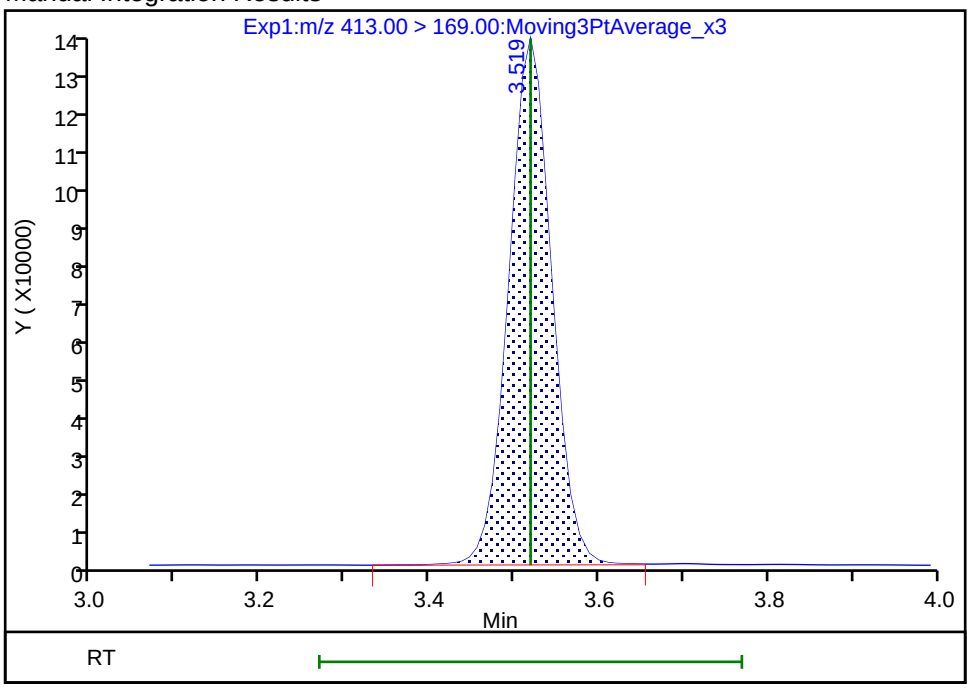
Processing Integration Results

RT: 3.52
Area: 478438
Amount: 0.985938
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 477686
Amount: 0.986416
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:48:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

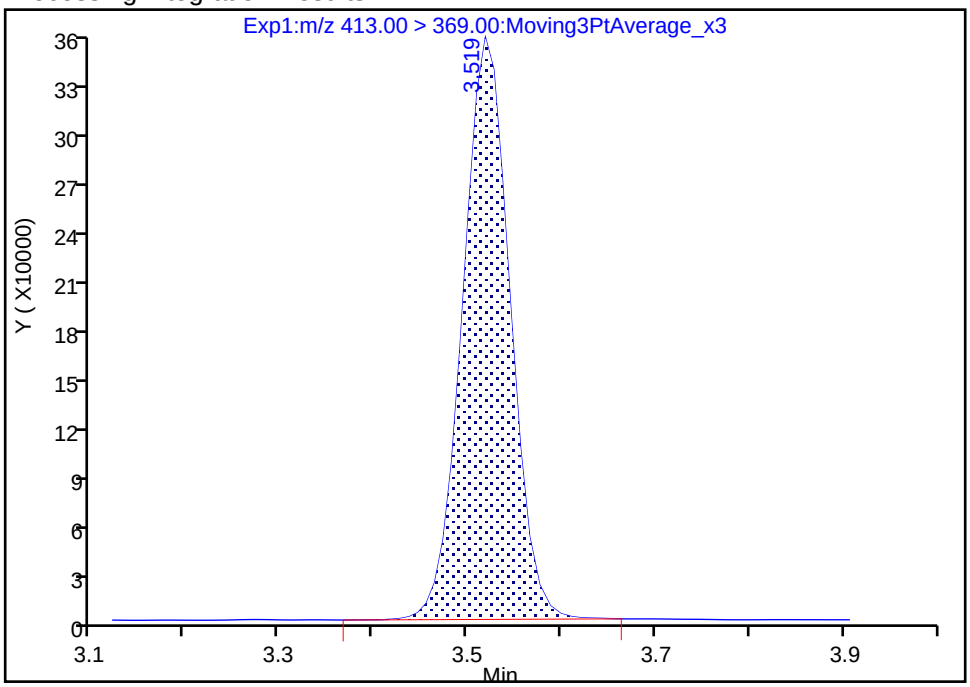
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

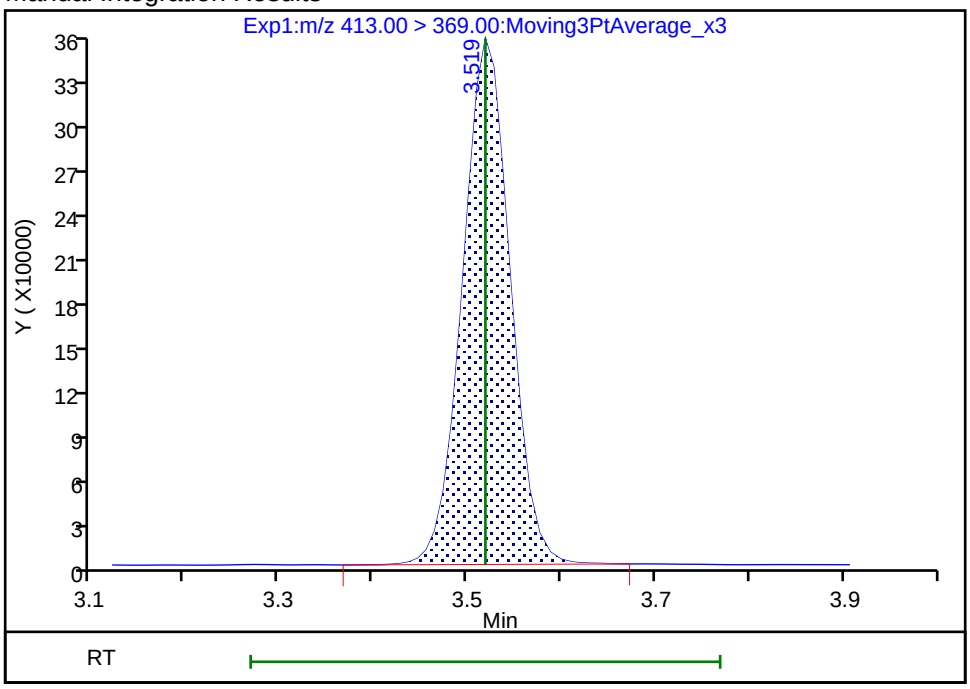
Processing Integration Results

RT: 3.52
Area: 1236890
Amount: 0.985938
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 1237490
Amount: 0.986416
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:48:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

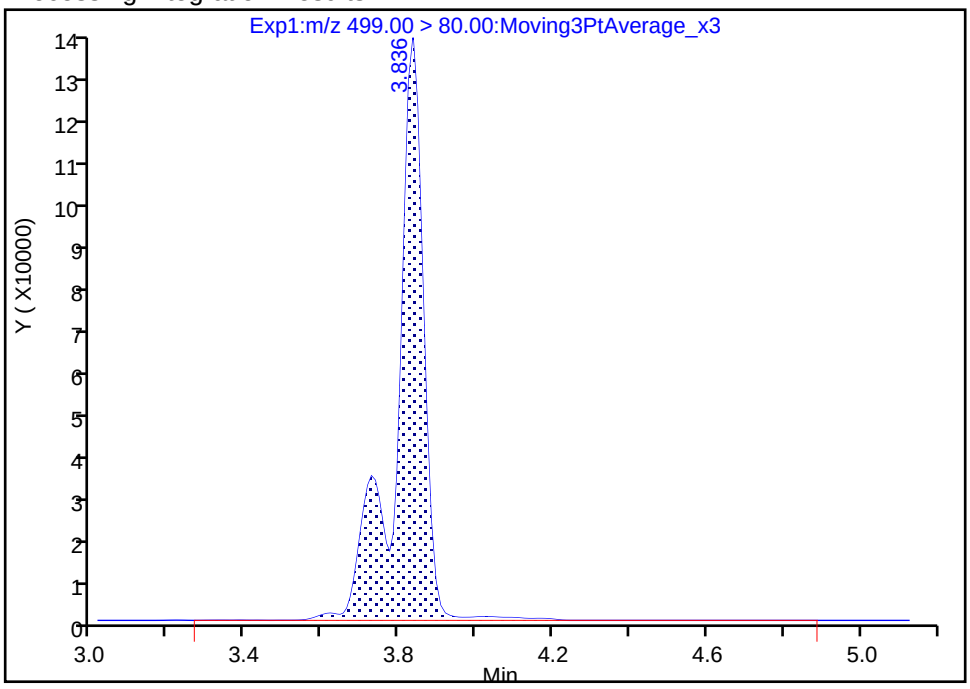
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

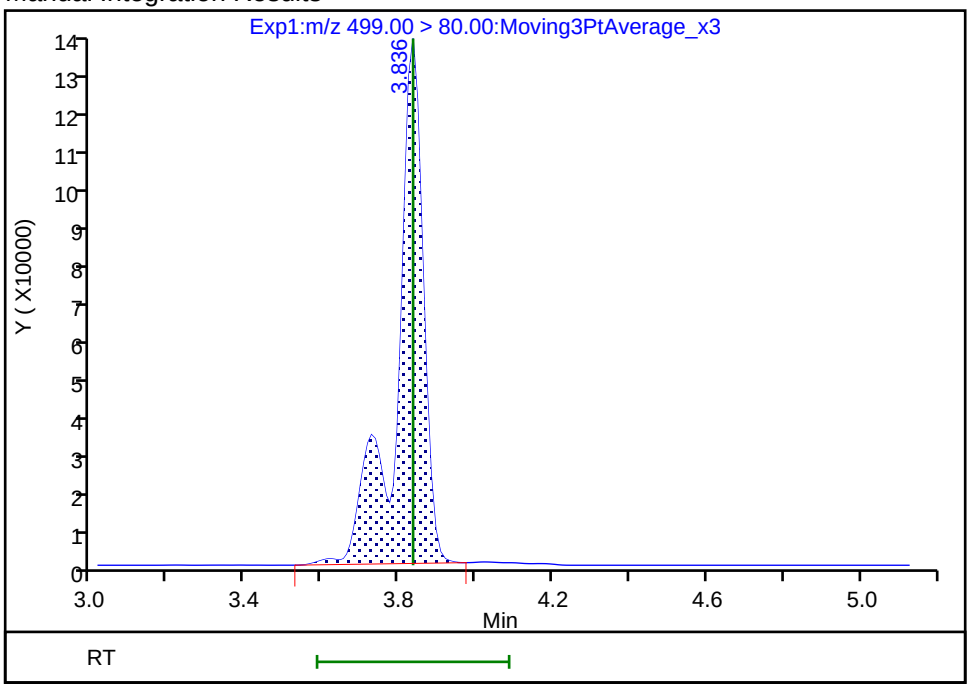
Processing Integration Results

RT: 3.84
Area: 676706
Amount: 0.914952
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 658662
Amount: 0.890556
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:49:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

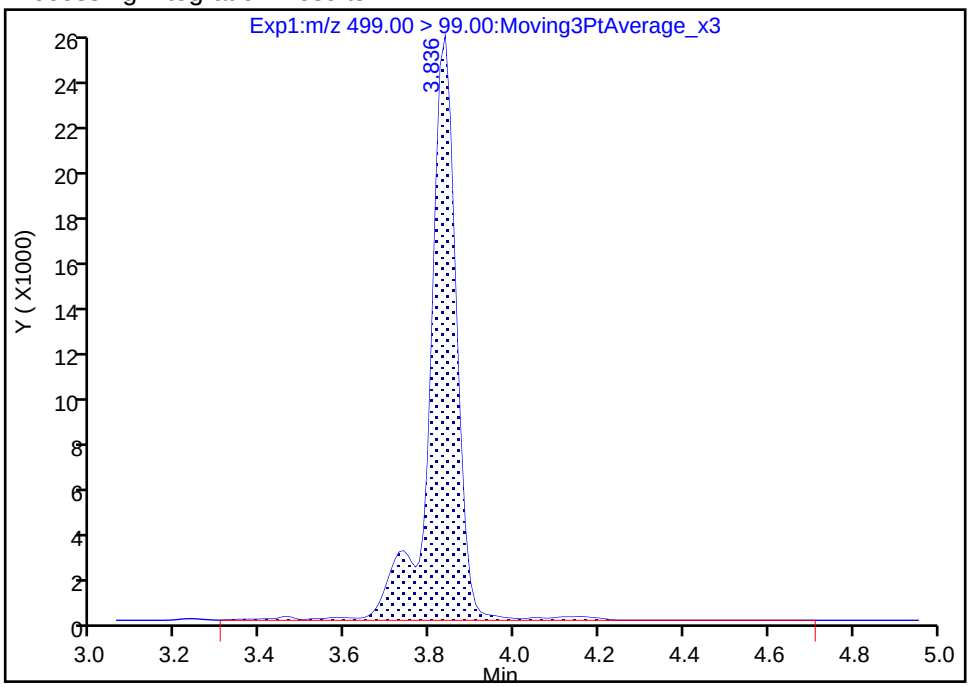
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

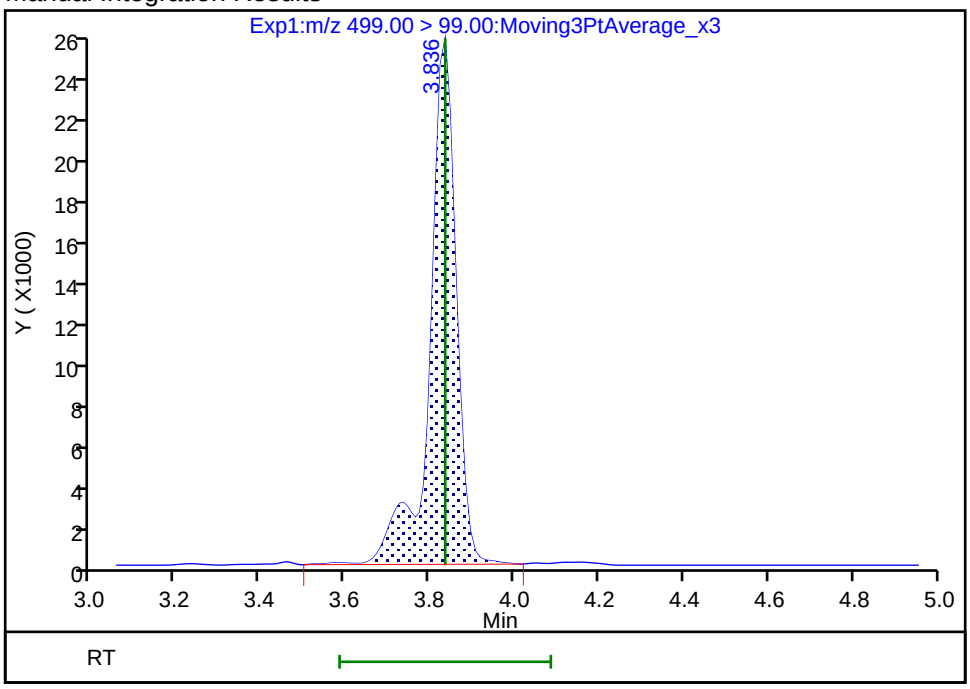
Processing Integration Results

RT: 3.84
Area: 112027
Amount: 0.914952
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 108882
Amount: 0.890556
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:49:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

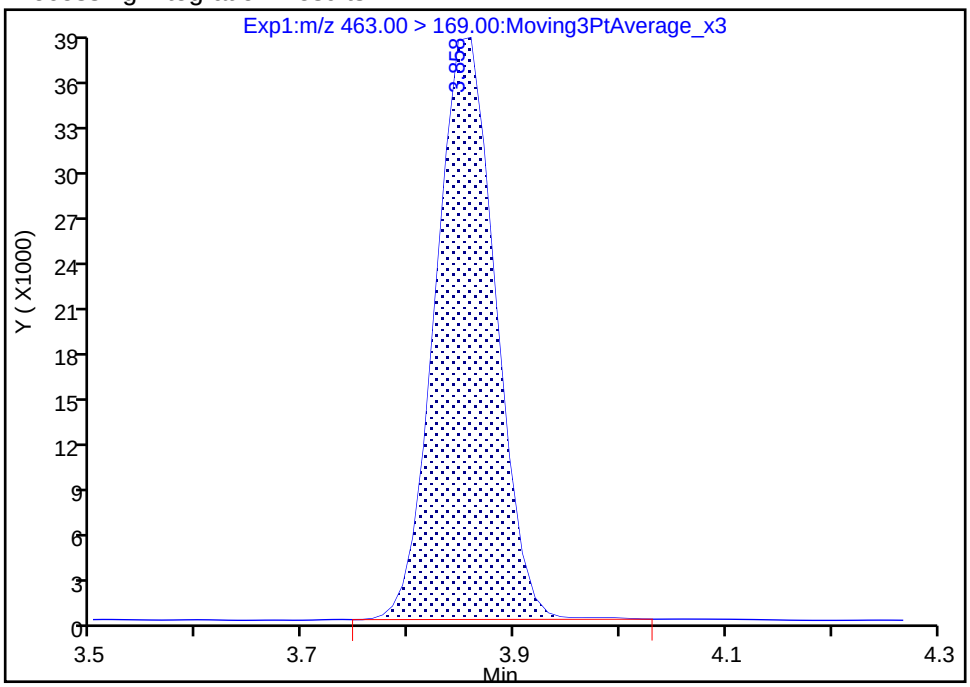
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

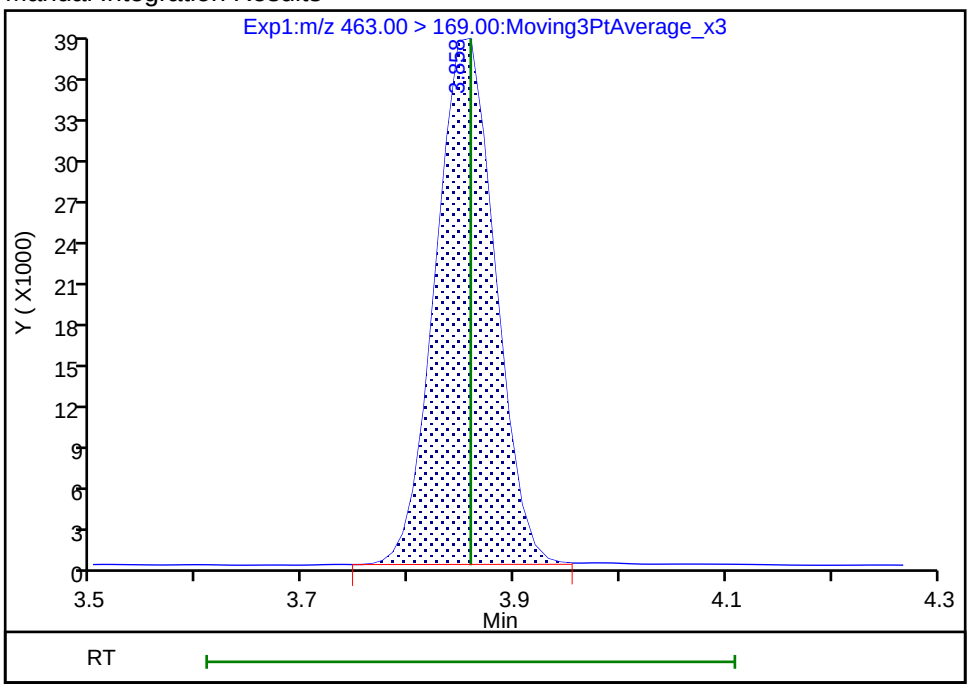
Processing Integration Results

RT: 3.86
Area: 150419
Amount: 1.013526
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 150124
Amount: 1.013526
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:49:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

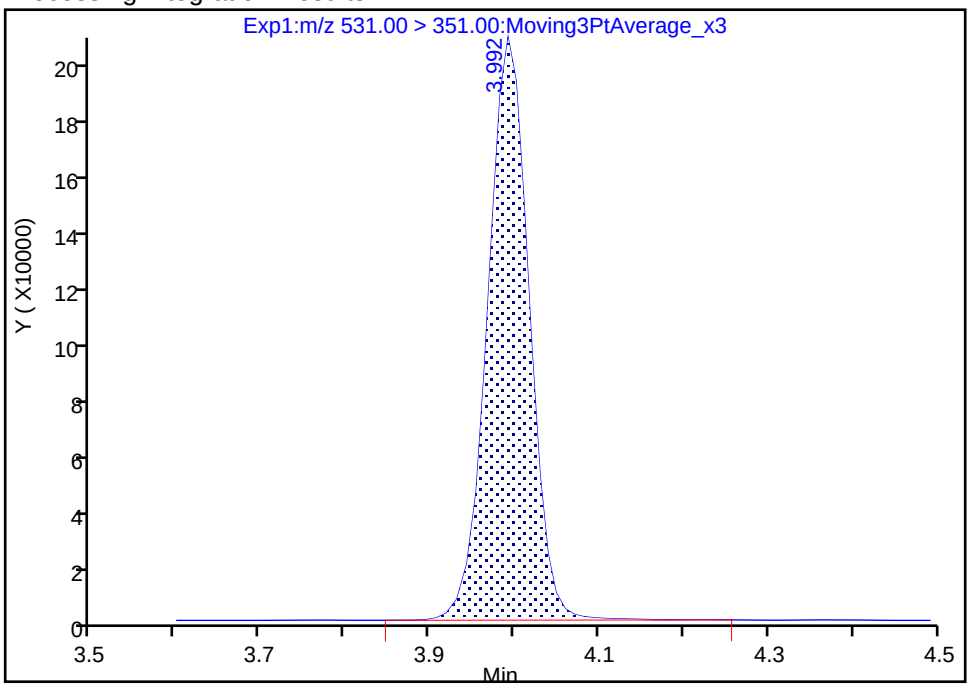
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Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

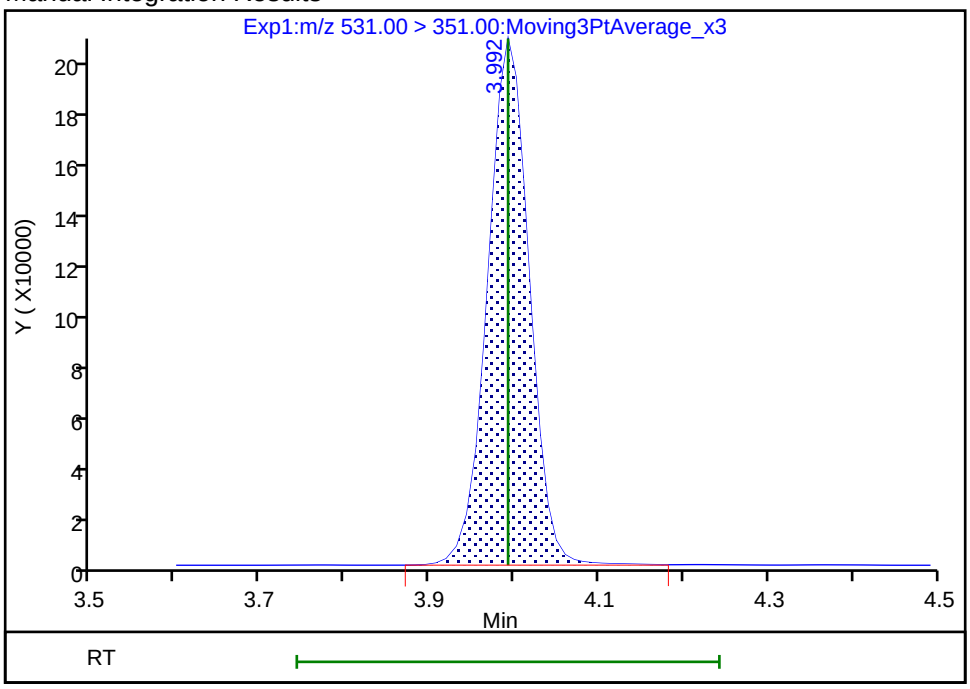
Processing Integration Results

RT: 3.99
Area: 711858
Amount: 0.880175
Amount Units: ng/ml



Manual Integration Results

RT: 3.99
Area: 712469
Amount: 0.880931
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:49:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

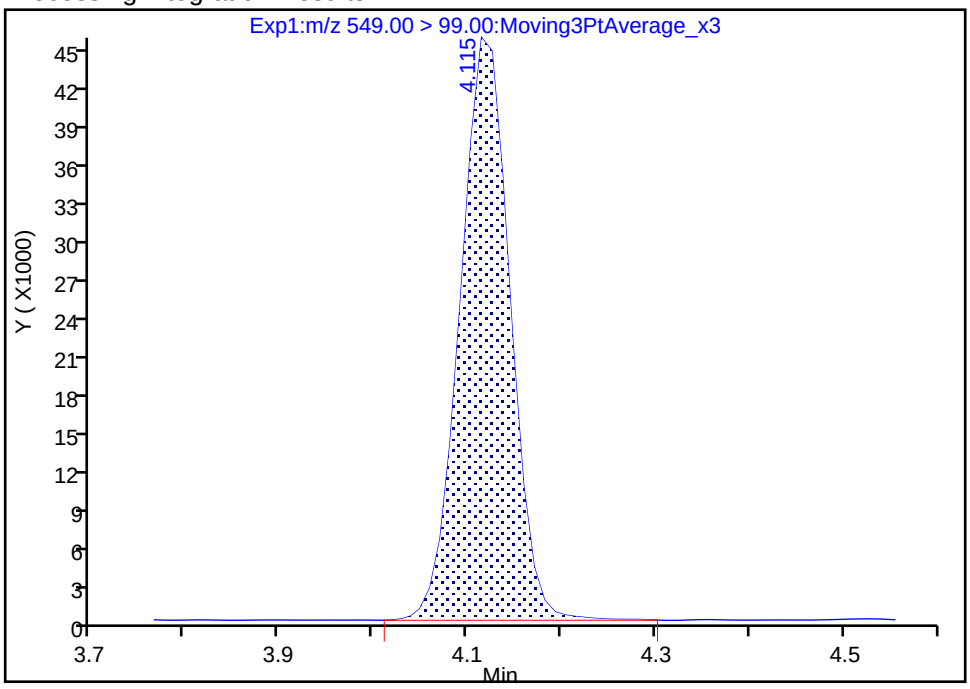
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

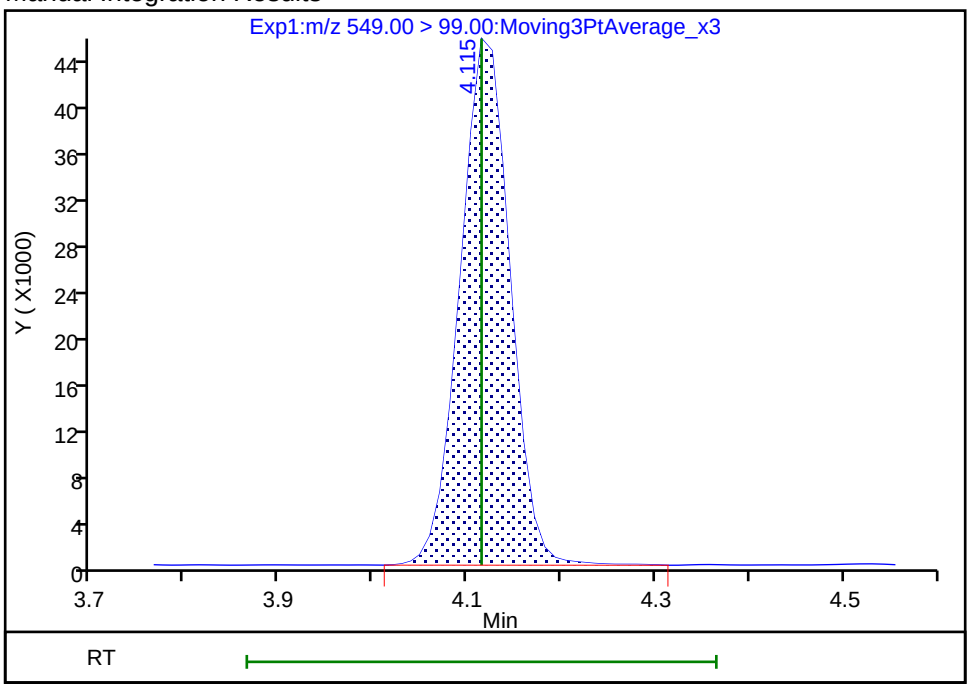
Processing Integration Results

RT: 4.11
Area: 169590
Amount: 0.940788
Amount Units: ng/ml



Manual Integration Results

RT: 4.11
Area: 169734
Amount: 0.940788
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:50:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

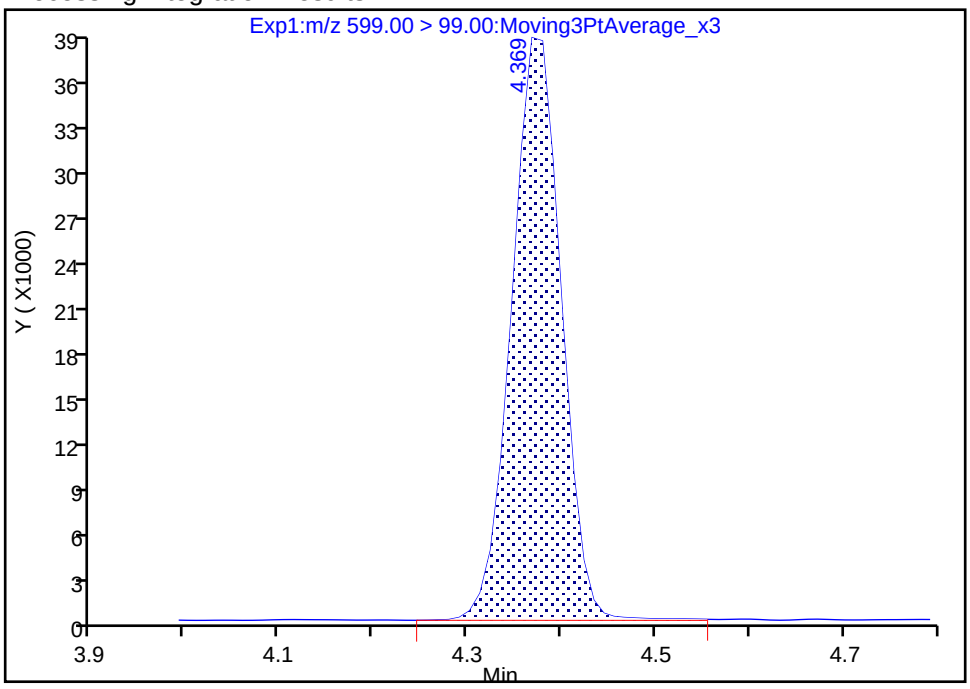
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

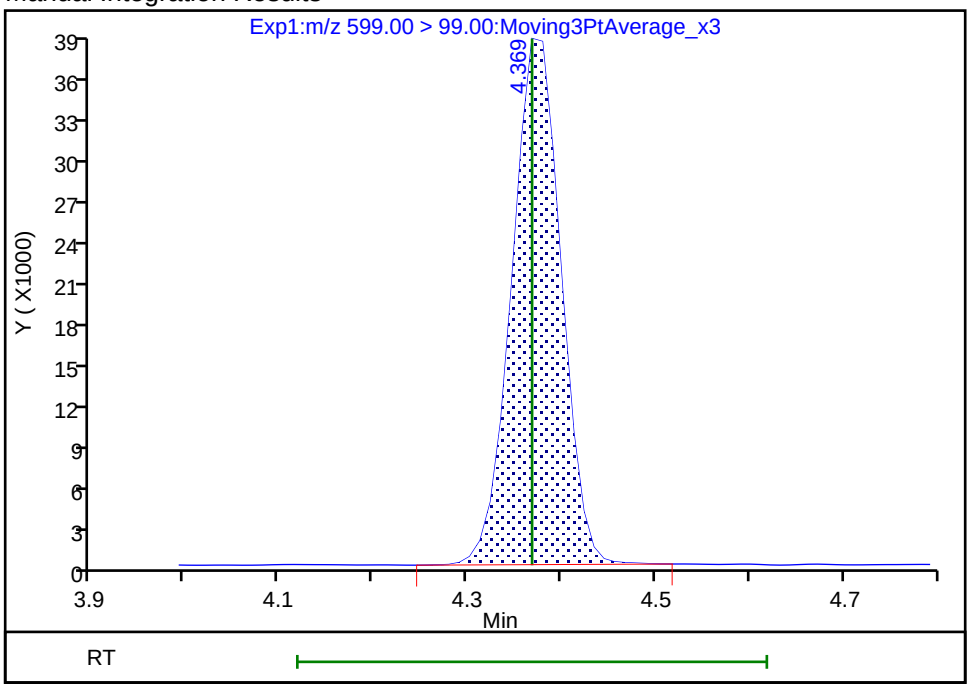
Processing Integration Results

RT: 4.37
Area: 140487
Amount: 0.985648
Amount Units: ng/ml



Manual Integration Results

RT: 4.37
Area: 139566
Amount: 0.985648
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:50:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

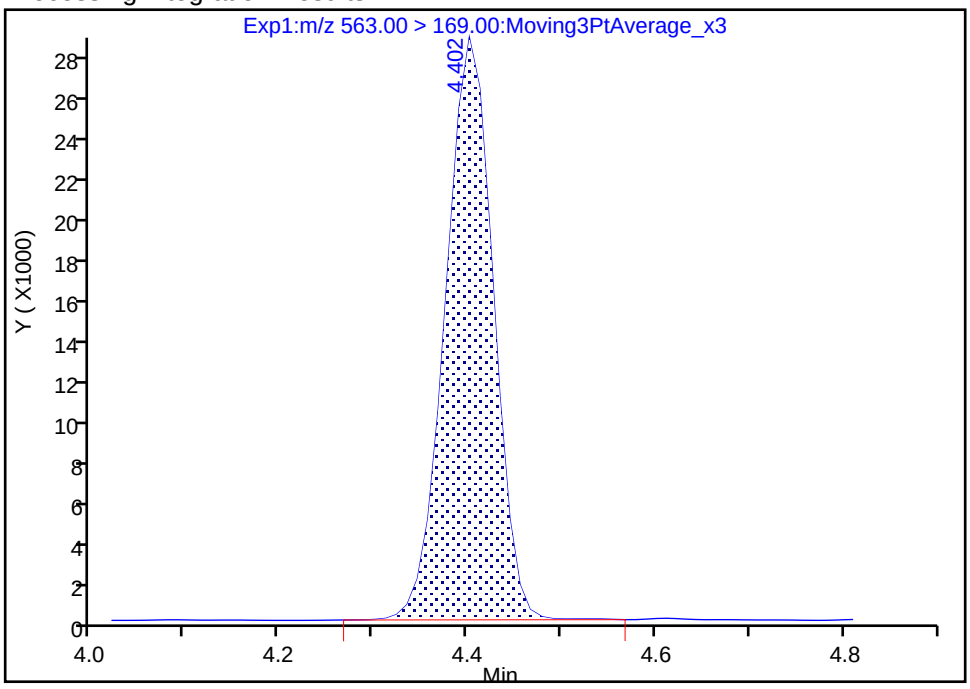
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

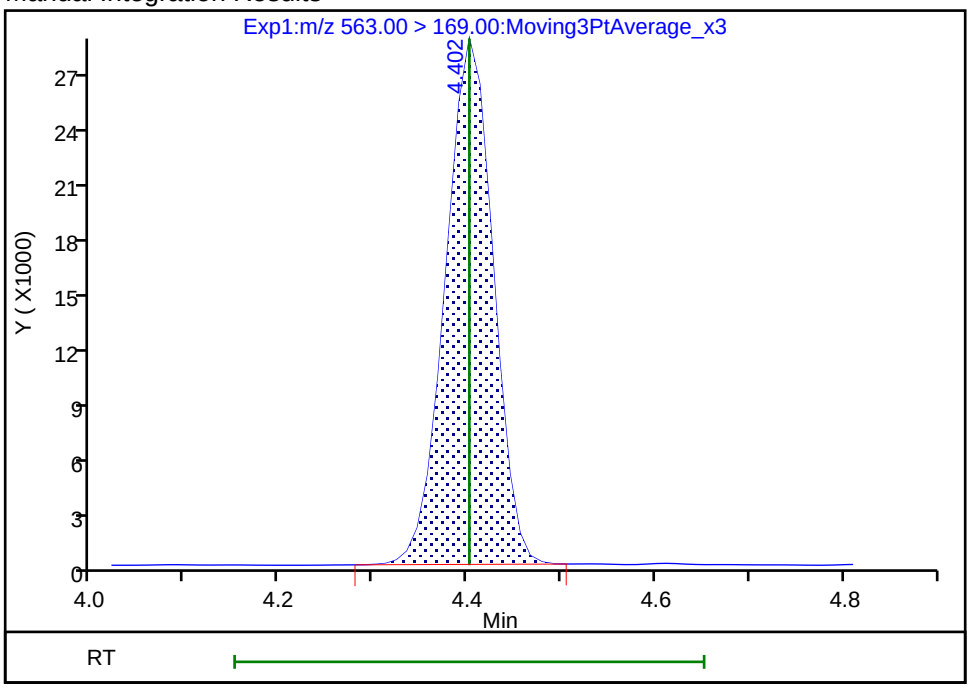
Processing Integration Results

RT: 4.40
Area: 101563
Amount: 1.126228
Amount Units: ng/ml



Manual Integration Results

RT: 4.40
Area: 101188
Amount: 1.126228
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:50:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

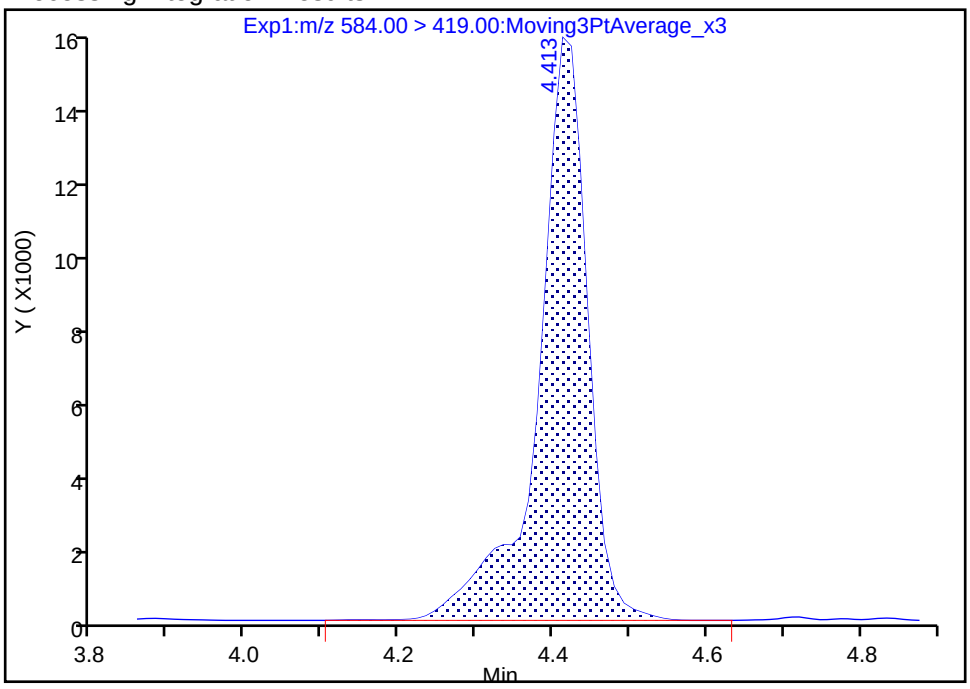
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

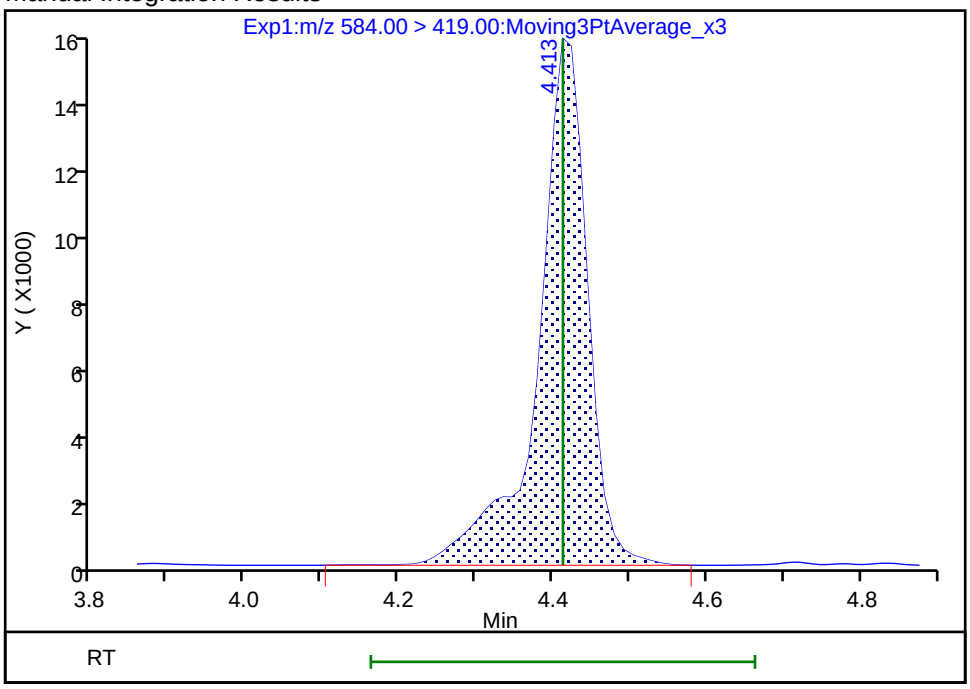
Processing Integration Results

RT: 4.41
Area: 68260
Amount: 1.083695
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 68260
Amount: 1.083695
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:50:50

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

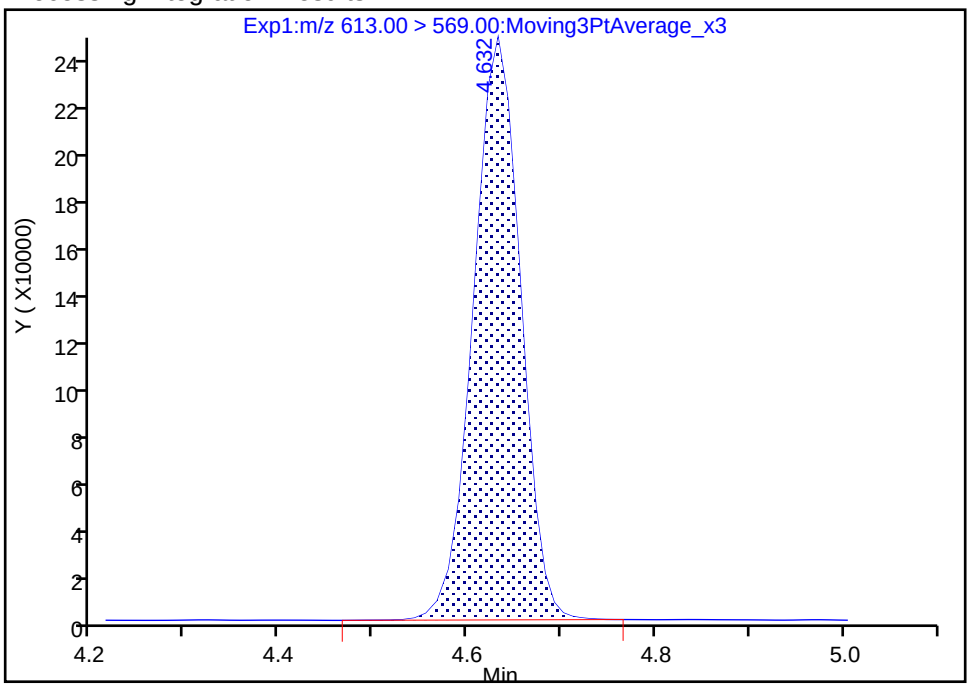
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

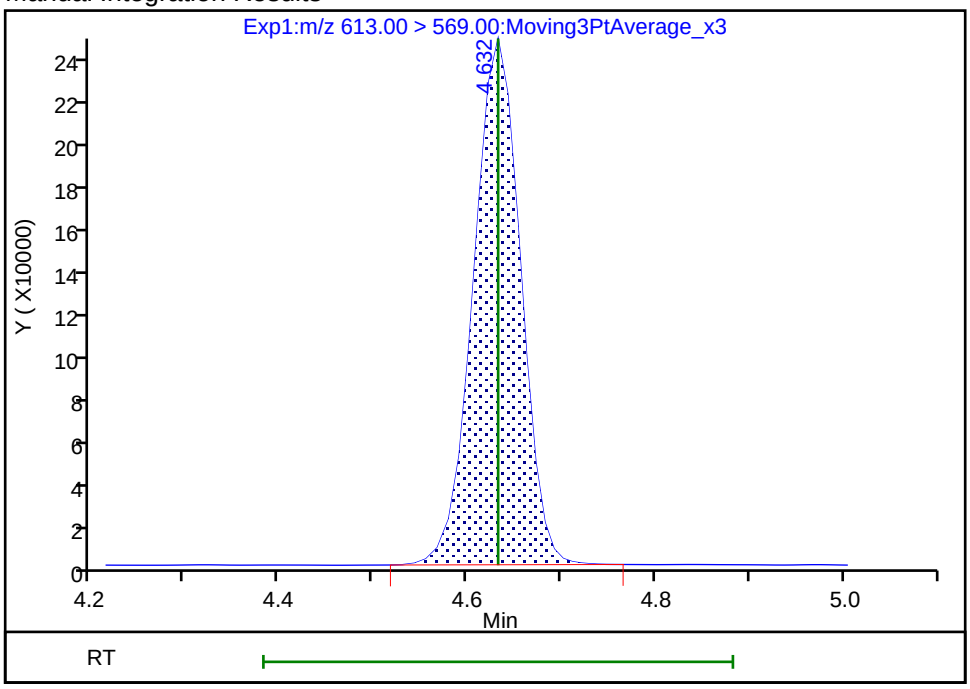
Processing Integration Results

RT: 4.63
Area: 848666
Amount: 1.008872
Amount Units: ng/ml



Manual Integration Results

RT: 4.63
Area: 848175
Amount: 1.008289
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:51:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

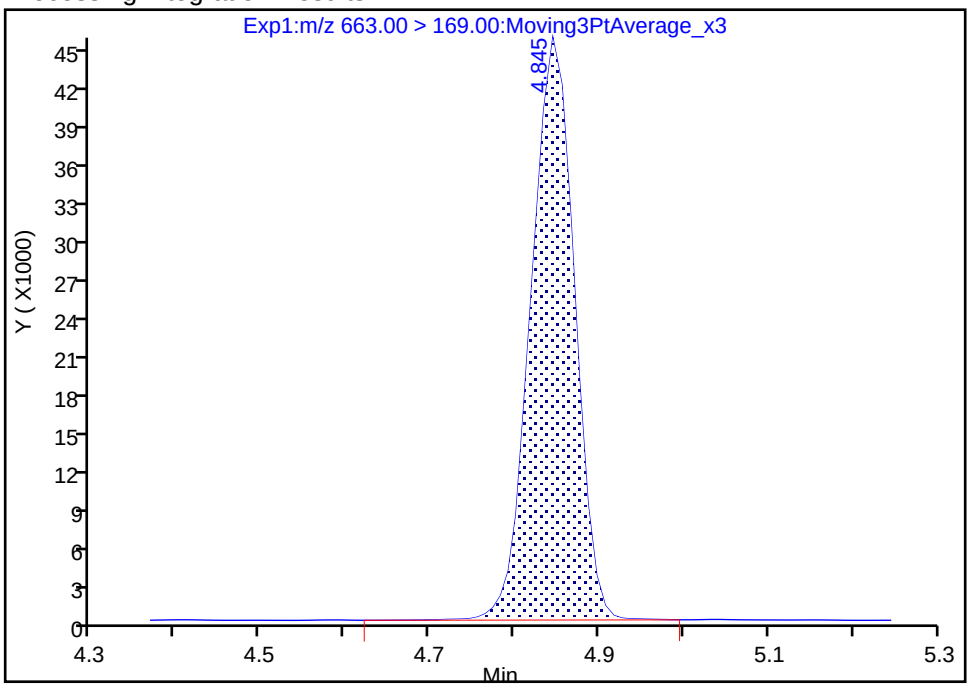
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

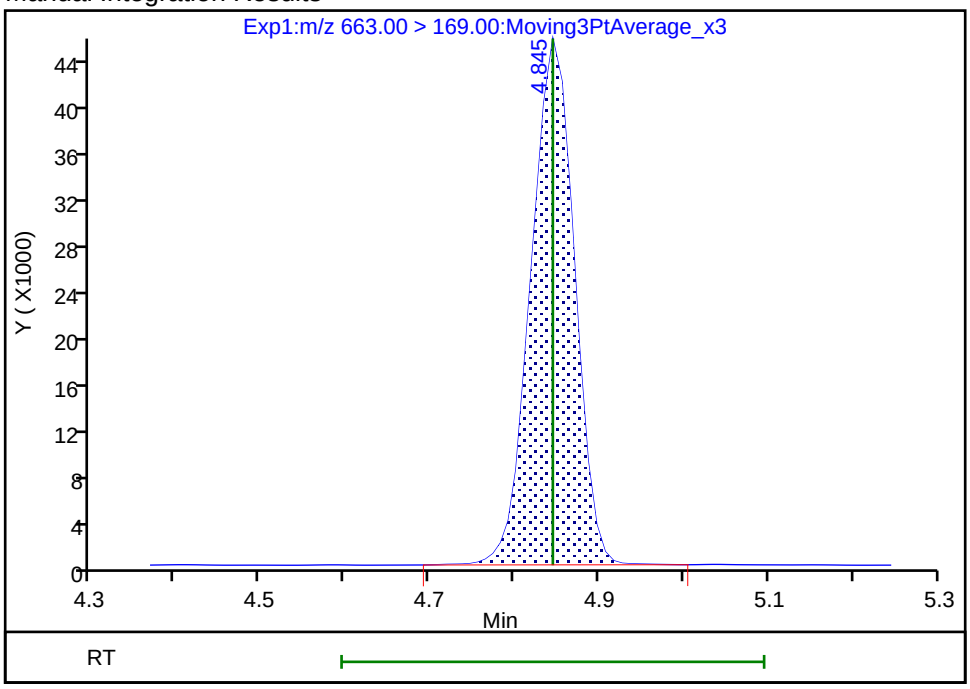
Processing Integration Results

RT: 4.85
Area: 163024
Amount: 1.029340
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 162890
Amount: 1.028161
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:51:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

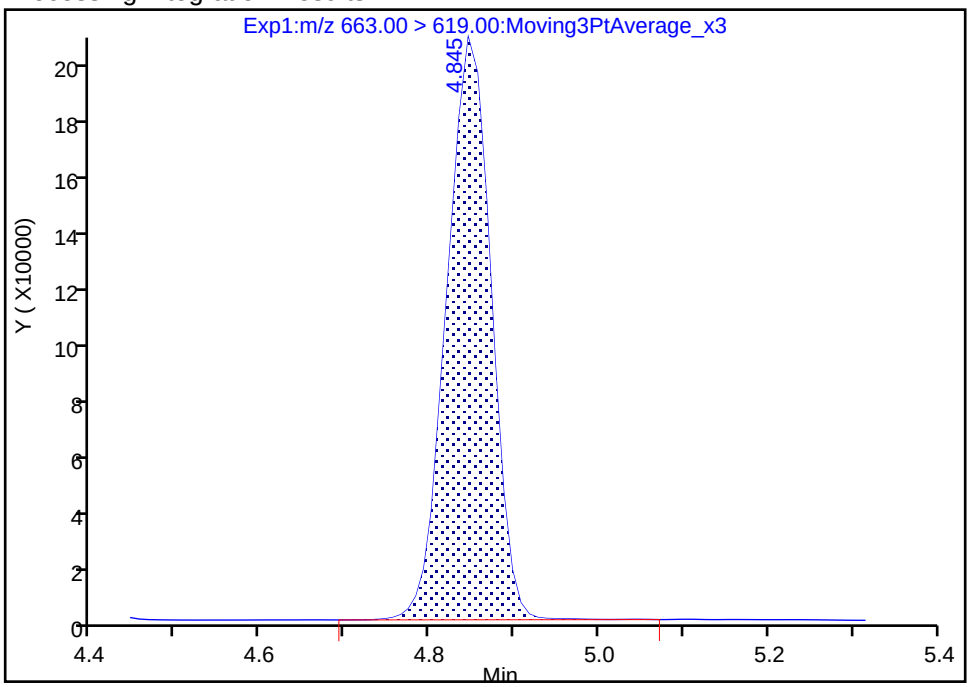
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d
Injection Date: 11-Aug-2021 13:26:58 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

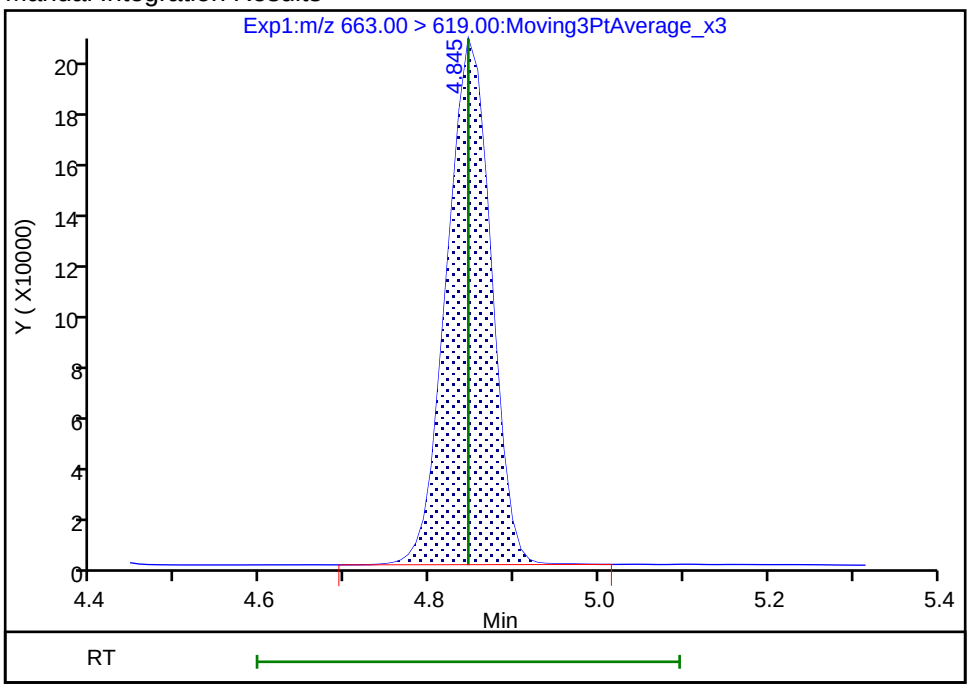
Processing Integration Results

RT: 4.85
Area: 746419
Amount: 1.029340
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 745564
Amount: 1.028161
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:51:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

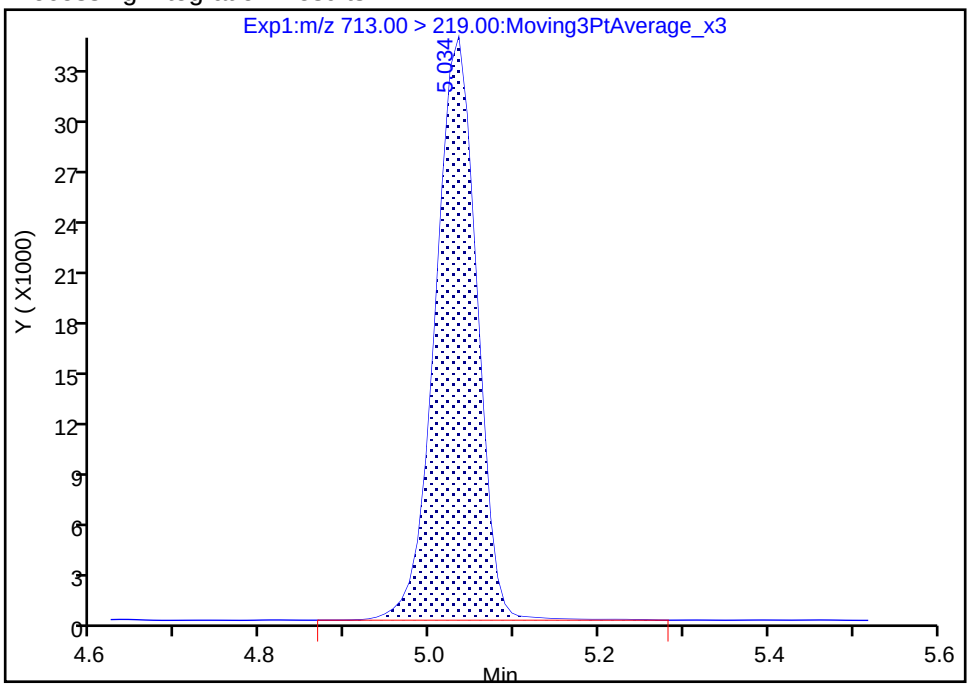
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A06.d				
Injection Date:	11-Aug-2021 13:26:58	Instrument ID:	LC812		
Lims ID:	CCVIS				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	3	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

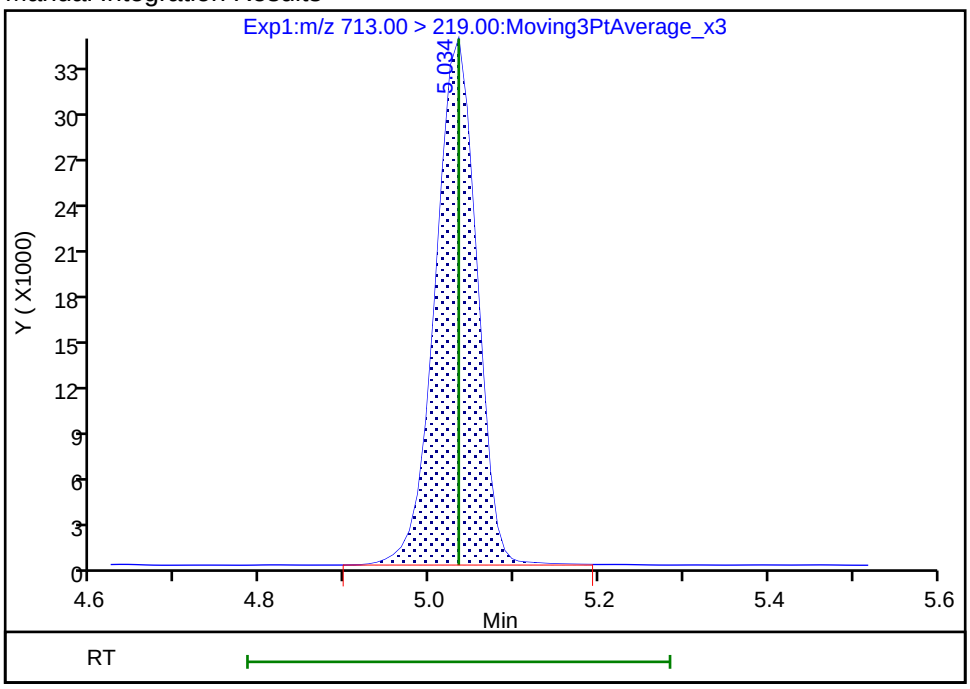
Processing Integration Results

RT: 5.03
Area: 118545
Amount: 1.057508
Amount Units: ng/ml



Manual Integration Results

RT: 5.03
Area: 118373
Amount: 1.057508
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:51:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCV 200-170086/13 Calibration Date: 08/11/2021 14:25

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210811A13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9638	0.8858		2.30	2.50	-8.1	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.035	0.9853		2.38	2.50	-4.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.080	1.030		2.11	2.21	-4.6	40.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.928	1.963		2.38	2.34	1.8	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.006	0.9680		2.41	2.50	-3.8	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.229	1.184		2.26	2.35	-3.7	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.654	1.302		1.97	2.50	-21.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	1.016		2.46	2.50	-1.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.157	1.051		2.07	2.28	-9.2	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.522	3.321		2.22	2.36	-5.7	50.0
6:2 FTS	AveID	1.036	1.084		2.48	2.37	4.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.245	1.242		2.37	2.38	-0.2	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.052	0.9539		2.27	2.50	-9.4	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.121	1.012		2.09	2.32	-9.7	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9669	0.9685		2.50	2.50	0.2	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.225	1.135		2.16	2.33	-7.4	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8298	0.7441		2.15	2.40	-10.3	50.0
8:2 FTS	AveID	0.4982	0.4623		2.22	2.40	-7.2	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.064	1.018		2.39	2.50	-4.3	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9781	0.9705		2.48	2.50	-0.8	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8313	0.8660		2.60	2.50	4.2	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6334	0.6102		2.32	2.41	-3.7	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9674	0.9928		2.57	2.50	2.6	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8472	0.8309		2.45	2.50	-1.9	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	1.012	1.010		2.35	2.36	-0.2	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.009	0.9548		2.36	2.50	-5.4	40.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.2522	0.2432		2.32	2.41	-3.5	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2155	0.1933		2.17	2.42	-10.3	50.0

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCV 200-170086/13 Calibration Date: 08/11/2021 14:25

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210811A13.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8702	0.7827		2.25	2.50	-10.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1719	0.1763		2.56	2.50	2.6	40.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9895		2.64	2.50	5.5	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8466	0.8470		2.50	2.50	0.0	50.0
13C4 PFBA	Ave	1.144	1.110		1.21	1.25	-3.0	50.0
13C5 PFPeA	Ave	0.8660	0.8364		1.21	1.25	-3.4	50.0
13C3 PFBS	Ave	0.9175	0.8959		1.14	1.16	-2.4	50.0
M2-4:2 FTS	Ave	0.0758	0.0701		1.08	1.17	-7.5	50.0
13C2 PFHxA	Ave	0.9540	0.8861		1.16	1.25	-7.1	50.0
13C3 HFPO-DA	Ave	0.1030	0.1240		1.50	1.25	20.4	50.0
18O2 PFHxS	Ave	0.7289	0.6933		1.12	1.18	-4.9	50.0
13C4 PFHpA	Ave	0.9564	0.9157		1.20	1.25	-4.2	50.0
M2-6:2 FTS	Ave	0.1011	0.0944		1.11	1.19	-6.6	50.0
13C4 PFOA	Ave	0.9874	0.9734		1.23	1.25	-1.4	50.0
13C4 PFOS	Ave	0.5319	0.5034		1.13	1.20	-5.4	50.0
13C5 PFNA	Ave	0.9379	0.8369		1.12	1.25	-10.8	50.0
13C2 PFDA	Ave	0.8507	0.7864		1.16	1.25	-7.6	50.0
M2-8:2 FTS	Ave	0.1204	0.1167		1.16	1.20	-3.1	50.0
13C8 FOSA	Ave	0.9381	0.8966		1.19	1.25	-4.4	50.0
d3-NMeFOSAA	Ave	0.0626	0.0564		1.13	1.25	-9.8	50.0
13C2 PFUnA	Ave	0.6747	0.6141		1.14	1.25	-9.0	50.0
d5-NEtFOSAA	Ave	0.0651	0.0564		1.08	1.25	-13.3	50.0
13C2 PFDoA	Ave	0.6975	0.6587		1.18	1.25	-5.6	50.0
13C2 PFTeDA	Ave	0.5468	0.4938		1.13	1.25	-9.7	50.0
13C2 PFHxDA	Ave	0.5565	0.4998		1.12	1.25	-10.2	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 11-Aug-2021 14:25:00 ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: 200-0047128-013 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:32:14 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 08:11:36
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	2.109	2.082	0.026	0.598	1728103	1.21		97.0	10023	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.117	2.082	0.035	1.004	3061597	2.30		91.9	428	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.452	2.413	0.039	0.695	1301789	1.21		96.6	3425	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.452	2.413	0.039	1.000	2565269	2.38		95.2	251	
D 47 13C3 PFBS										
301.90 > 80.00	2.465	2.426	0.039	0.699	1296797	1.14		97.6	239833	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.465	2.426	0.039	1.000	2540090	2.11	Target=2.20	95.4	2180	M
298.90 > 99.00	2.465	2.426	0.039	1.000	1159588		2.19(1.10-3.30)		717	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.770	2.734	0.036	1.000	400159	2.38		102	2639	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.770	2.734	0.036	0.785	101927	1.08		92.5	149	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.806	2.782	0.024	0.796	1379180	1.16		92.9	3183	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.806	2.782	0.024	1.000	2670139	2.41	Target=12.93	96.2	815	M
313.00 > 119.00	2.806	2.782	0.024	1.000	203100		13.15(6.46-19.39)		541	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.806	2.782	0.024	0.887	2397096	2.26	Target=3.71	96.3	2821	M
349.00 > 99.00	2.806	2.782	0.024	0.887	678631		3.53(1.85-5.56)		1064	M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.911	2.892	0.019	0.825	193050	1.50		120	1879	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.911	2.892	0.019	1.000	502634	1.97		78.7	195	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.164	3.154	0.010	0.897	1020818	1.12		95.1	1577	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.175	3.154	0.021	1.003	2063669	2.07	Target=4.48	90.8	2658	M
399.00 > 99.00	3.164	3.154	0.010	1.000	472353		4.37(2.24-6.72)		698	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.175	3.154	0.021	1.000	2896007	2.46	Target=3.68	98.3	1207	
363.00 > 169.00	3.175	3.154	0.021	1.000	761892		3.80(1.84-5.53)		1797	
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1425247	1.20		95.8	3139	
77 DONA										
377.00 > 251.00	3.208	3.196	0.012	0.836	4901597	2.22	Target=2.47	94.3	3526	
377.00 > 85.00	3.208	3.196	0.012	0.836	2020344		2.43(1.24-3.71)		2242	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.519	3.510	0.009	0.917	1853242	2.37	Target=6.56	99.8	6475	
449.00 > 99.00	3.519	3.510	0.009	0.917	285698		6.49(3.28-9.84)		956	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.519	3.510	0.009	0.997	139616	1.11		93.4	420	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.519	3.510	0.009	1.000	302022	2.48		105	1138	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.528	3.519	0.009	1.000	1514949	1.23		98.6	3328	M
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1556377	1.25			2995	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.528	3.519	0.009	1.000	2890164	2.27	Target=2.67	90.6	1052	
413.00 > 169.00	3.528	3.519	0.009	1.000	1113665		2.60(1.33-4.00)		2183	
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.087	749039	1.13		94.6	2395	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	1470988	2.09	Target=6.69	90.3	940	M
499.00 > 99.00	3.836	3.836	0.0	1.000	236614		6.22(3.34-10.03)		687	M
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.094	1302566	1.12		89.2	3611	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.858	3.858	0.0	1.000	2523125	2.50	Target=7.21	100	852	M
463.00 > 169.00	3.858	3.858	0.0	1.000	358504		7.04(3.60-10.81)		2278	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	4.002	3.992	0.010	1.043	1658101	2.16		92.6	3320	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.115	0.011	1.076	1119373	2.15	Target=3.20	89.7	2640	
549.00 > 99.00	4.126	4.115	0.011	1.076	386548		2.90(1.60-4.80)		1129	
D 23 13C2 PFDA										
515.00 > 470.00	4.159	4.148	0.011	1.179	1223931	1.16		92.4	3353	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.159	4.148	0.011	1.000	2492449	2.39	Target=8.42	95.7	1825	
513.00 > 169.00	4.159	4.148	0.011	1.000	300986		8.28(4.21-12.63)		1730	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.159	4.160	-0.001	1.000	160871	2.22		92.8	1776	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.159	4.160	-0.001	1.179	174004	1.16		96.9	880	
D 21 13C8 FOSA										
506.00 > 78.00	4.234	4.224	0.010	1.200	1395472	1.19		95.6	4011	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.234	4.224	0.010	1.000	2708526	2.48		99.2	3382	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.303	4.280	0.023	1.220	87788	1.13		90.2	131	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.303	4.291	0.012	1.000	152045	2.60		104	525	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.392	4.369	0.023	1.145	921745	2.32	Target=2.66	96.3	2705	M
599.00 > 99.00	4.392	4.369	0.023	1.145	318207		2.90(1.33-3.99)		2069	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.414	4.402	0.012	1.251	955732	1.14		91.0	4342	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.414	4.402	0.012	1.000	1897650	2.57	Target=7.70	103	1886	
563.00 > 169.00	4.414	4.402	0.012	1.000	233667		8.12(3.85-11.56)		1730	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.425	4.413	0.011	1.254	87842	1.08		86.7	1064	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.435	4.413	0.022	1.002	145981	2.45		98.1	841	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.506	4.492	0.014	1.175	1491214	2.35		99.8	2226	
D 36 13C2 PFDoA										
615.00 > 570.00	4.643	4.632	0.011	1.316	1025146	1.18		94.4	3821	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.632	0.021	1.002	1957584	2.36	Target=6.31	94.6	600	
613.00 > 169.00	4.643	4.632	0.011	1.000	324737		6.03(3.15-9.46)		2409	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.673	4.653	0.020	1.123	85183	2.32		96.5	1535	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.823	4.810	0.012	1.257	293221	2.17	Target=0.45	89.7	1616	
699.00 > 99.00	4.823	4.810	0.012	1.257	646030		0.45(0.23-0.68)		3468	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.856	4.845	0.011	1.046	1604742	2.25	Target=4.61	89.9	593	M
663.00 > 169.00	4.856	4.845	0.011	1.046	383297		4.19(2.31-6.92)		2243	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.044	5.034	0.010	1.430	768563	1.13		90.3	4337	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.053	5.034	0.019	1.002	270982	2.56	Target=1.00	103	2309	
713.00 > 219.00	5.044	5.034	0.010	1.000	253860		1.07(0.50-1.51)		3430	M

Report Date: 12-Aug-2021 12:32:15 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d
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 44 13C2 PFHxDA										
815.00 > 770.00	5.394	5.383	0.011	1.529	777952	1.12		89.8	2449	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.394	5.383	0.011	1.000	1539573	2.64	Target=4.32	105	706	M
813.00 > 169.00	5.394	5.383	0.011	1.000	371953		4.14(2.16-6.48)		2907	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.729	5.710	0.019	1.062	1317823	2.50	Target=3.72	100	731	M
913.00 > 169.00	5.720	5.710	0.010	1.060	346248		3.81(1.86-5.58)		1440	M

QC Flag Legend

Processing Flags
Review Flags
M - Manually Integrated

Reagents:

PFAS32NCIC5_00019 Amount Added: 100.00 Units: uL

Report Date: 12-Aug-2021 12:32:15 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d

Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812

Lims ID: CCV L5

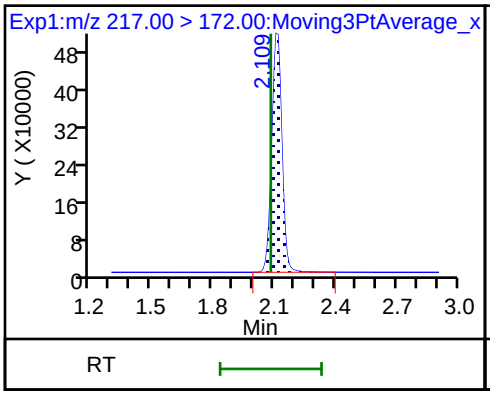
Client ID:

Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13

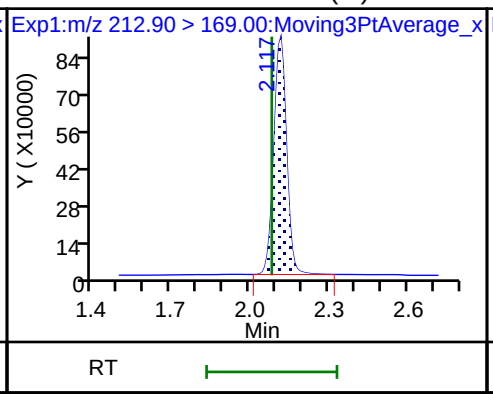
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

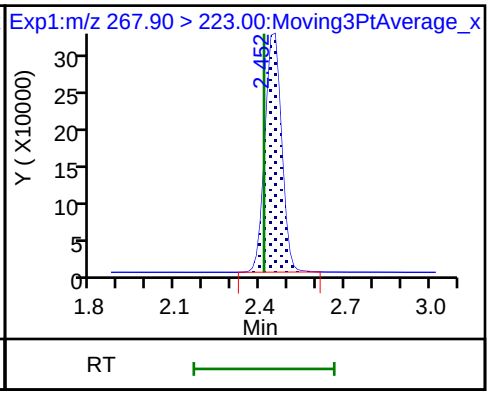
D 1 13C4 PFBA



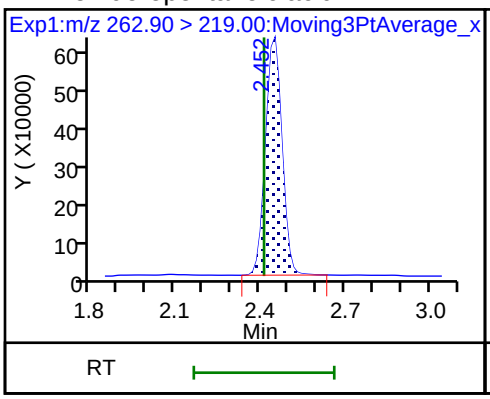
2 Perfluorobutanoic acid (M)



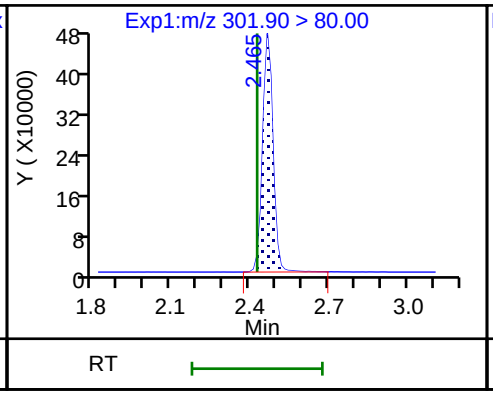
D 3 13C5 PFPeA



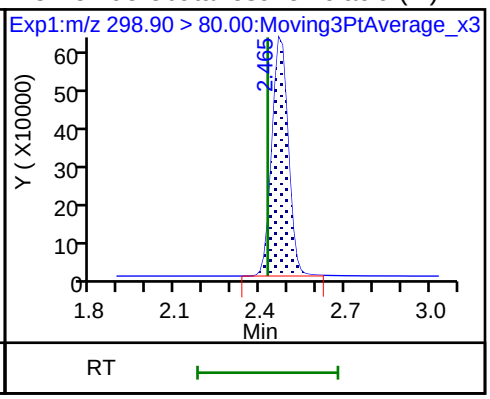
4 Perfluoropentanoic acid



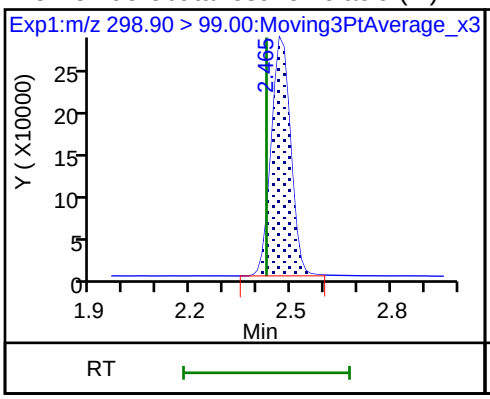
D 47 13C3 PFBS



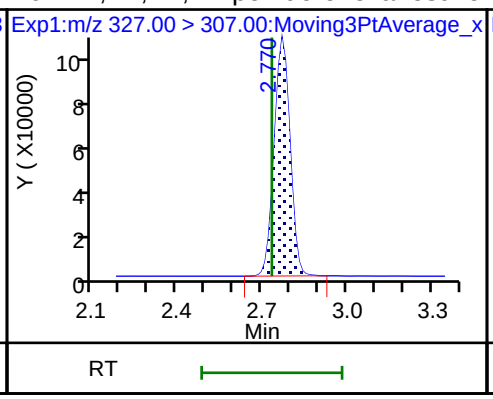
5 Perfluorobutanesulfonic acid (M)



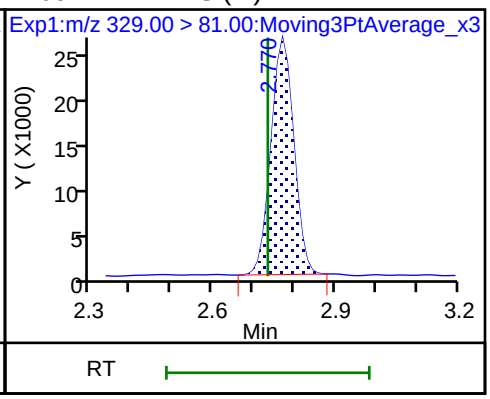
5 Perfluorobutanesulfonic acid (M)



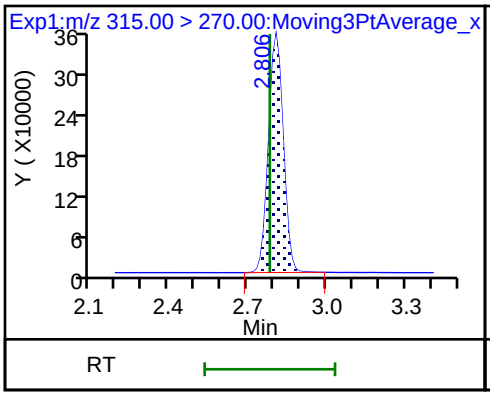
61 1H,1H,2H,2H-perfluorohexanesulfo



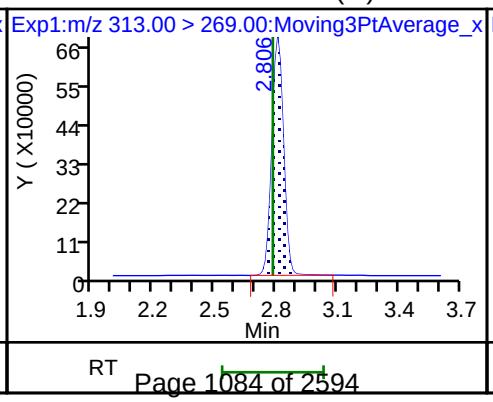
D 60 M2-4:2 FTS (M)



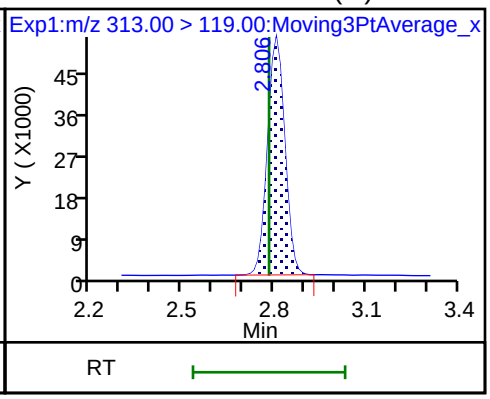
D 7 13C2 PFHxA



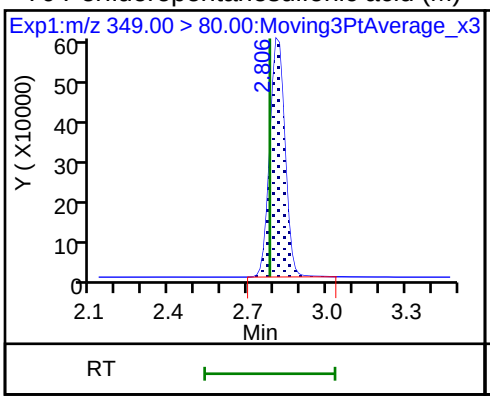
6 Perfluorohexanoic acid (M)



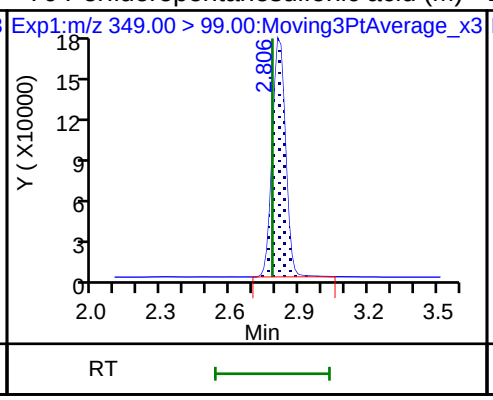
6 Perfluorohexanoic acid (M)



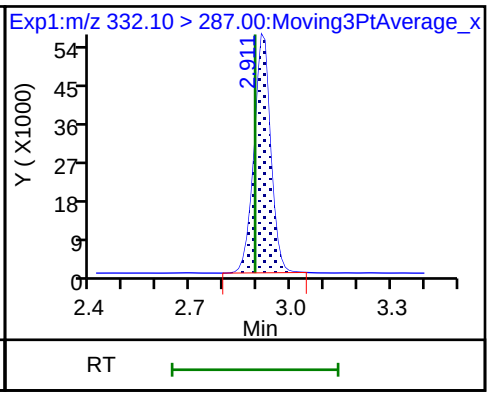
70 Perfluoropentanesulfonic acid (M)



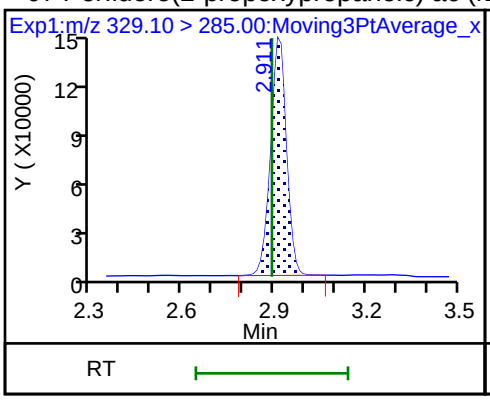
70 Perfluoropentanesulfonic acid (M)



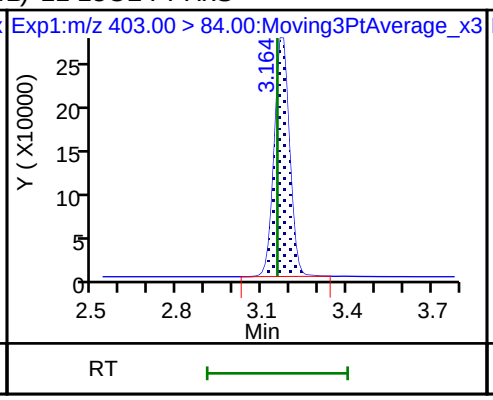
D 64 13C3 HFPO-DA



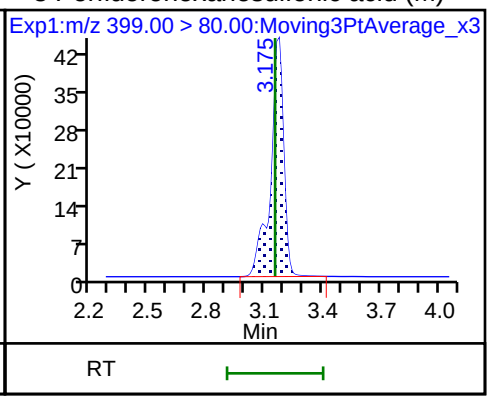
67 Perfluoro(2-propoxypropanoic) ac (M)



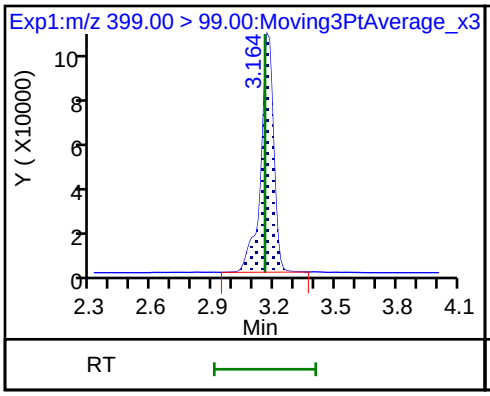
D 11 18O2 PFHxS



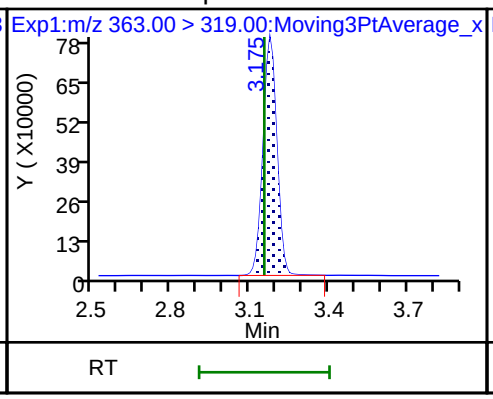
8 Perfluorohexanesulfonic acid (M)



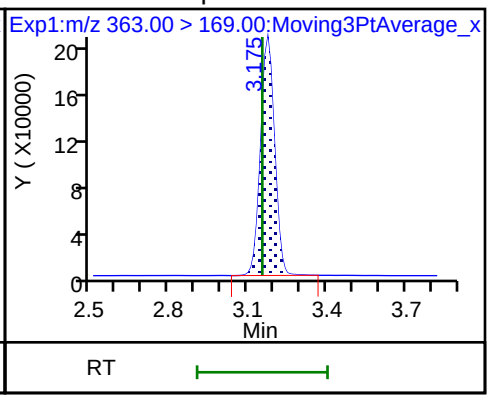
8 Perfluorohexanesulfonic acid



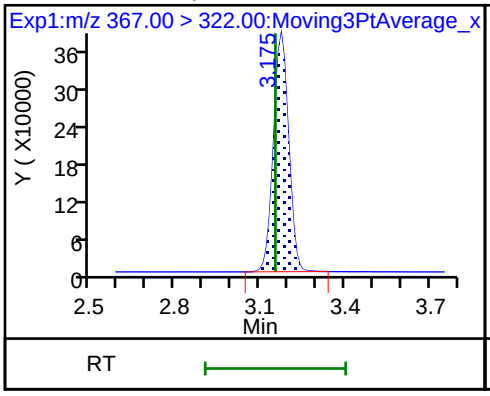
10 Perfluoroheptanoic acid



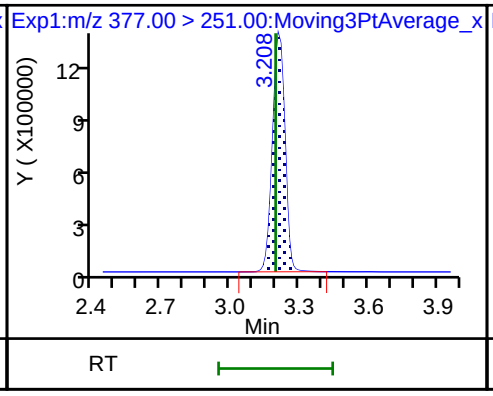
10 Perfluoroheptanoic acid



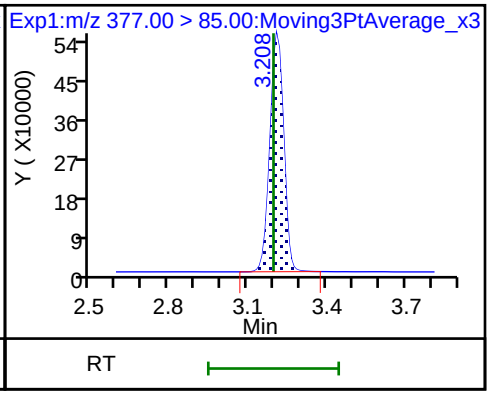
D 9 13C4 PFHpA



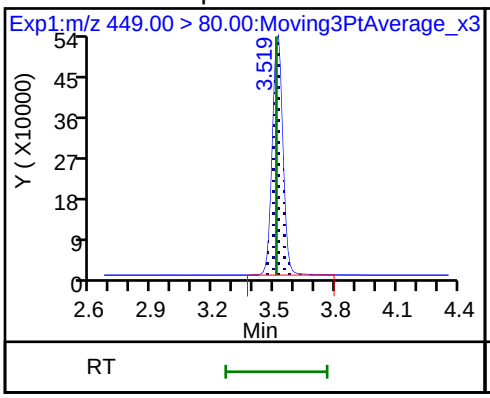
77 DONA



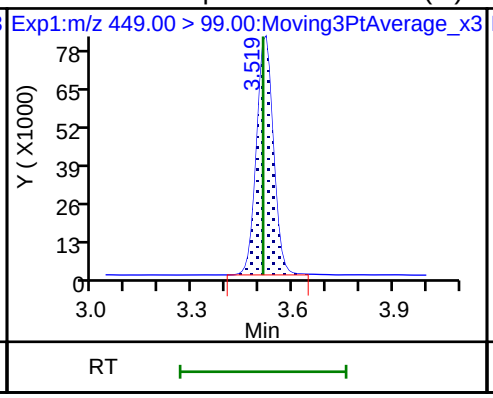
77 DONA



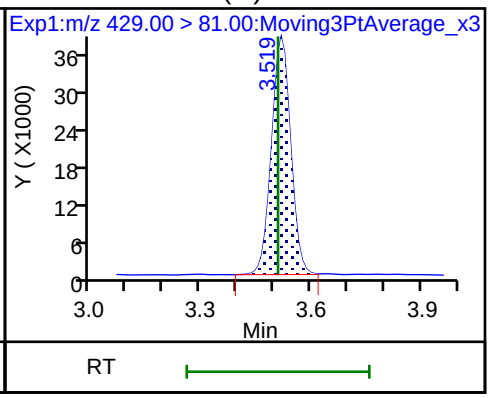
16 Perfluoroheptanesulfonic acid



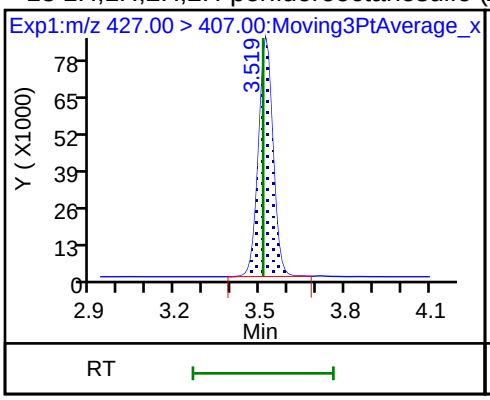
16 Perfluoroheptanesulfonic acid (M)



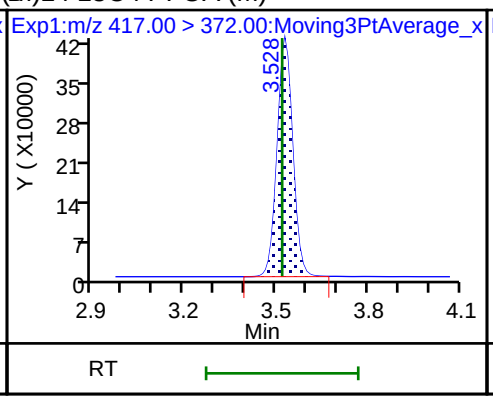
D 12 M2-6:2 FTS (M)



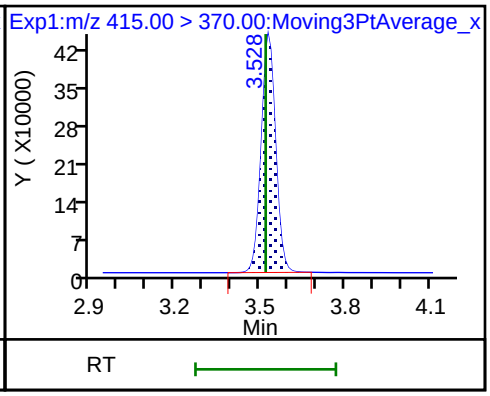
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



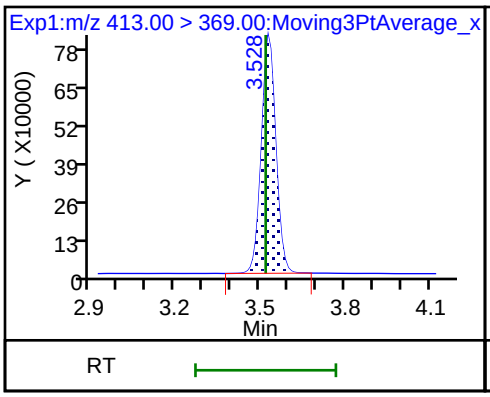
14 13C4 PFOA (M)



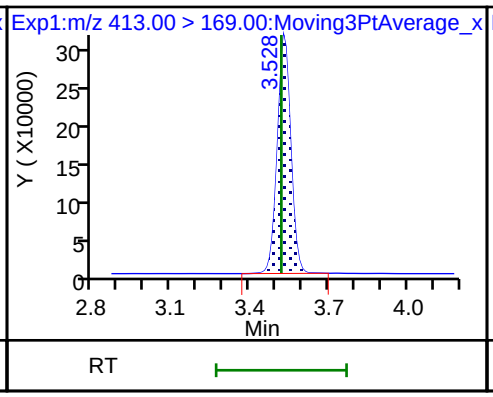
* 62 13C2 PFOA



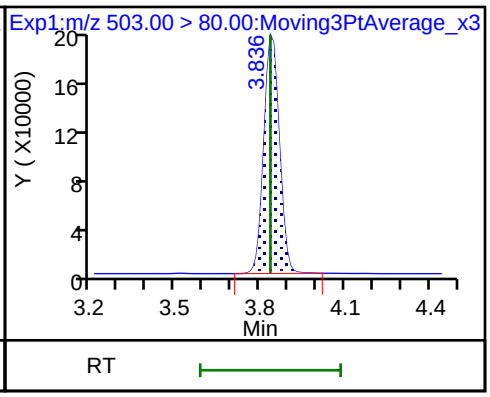
15 Perfluorooctanoic acid



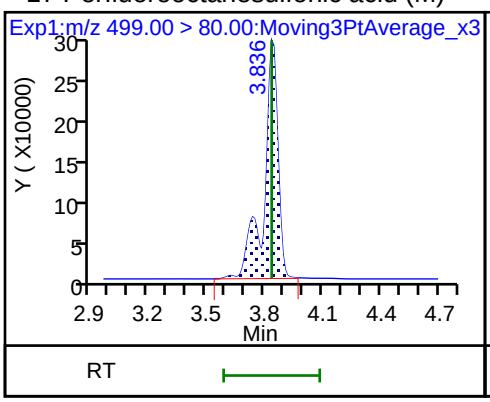
15 Perfluorooctanoic acid



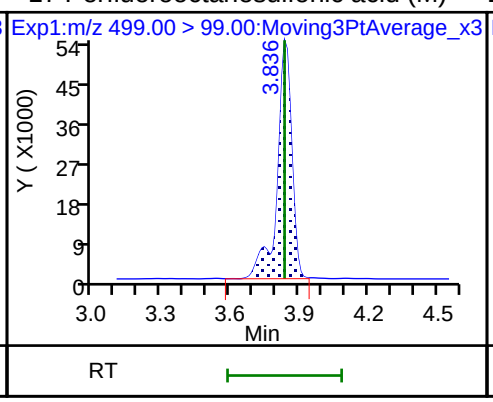
D 18 13C4 PFOS



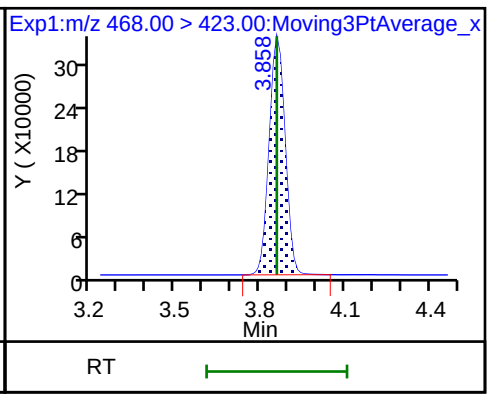
17 Perfluorooctanesulfonic acid (M)



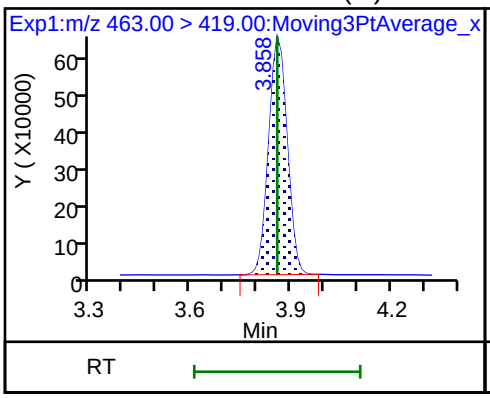
17 Perfluorooctanesulfonic acid (M)



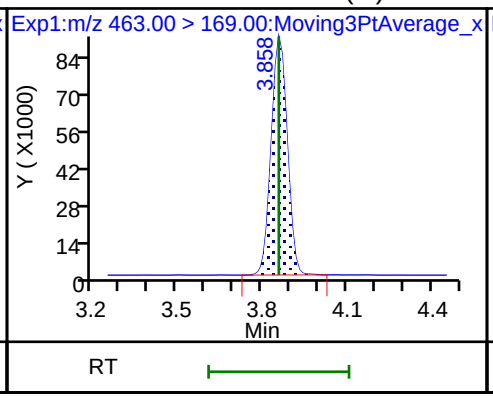
D 19 13C5 PFNA



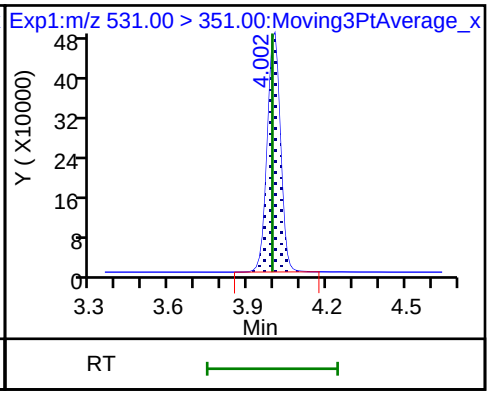
20 Perfluorononanoic acid (M)



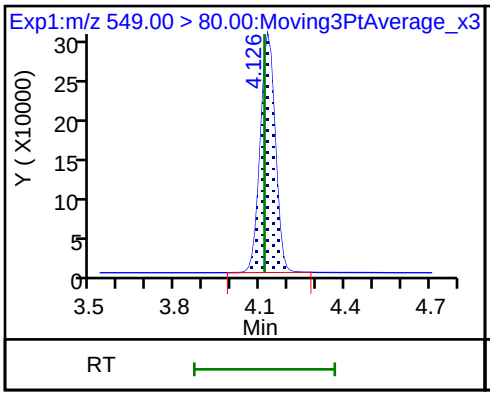
20 Perfluorononanoic acid (M)



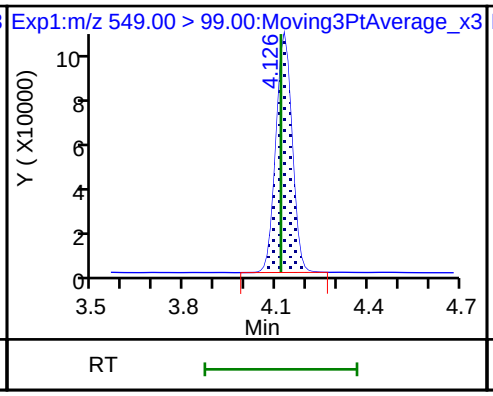
69 9-Chlorohexadecafluoro-3-oxanona



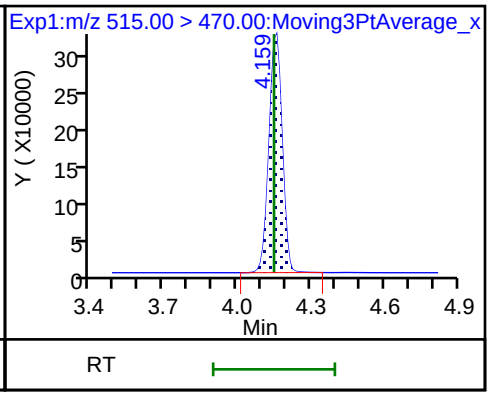
68 Perfluorononanesulfonic acid



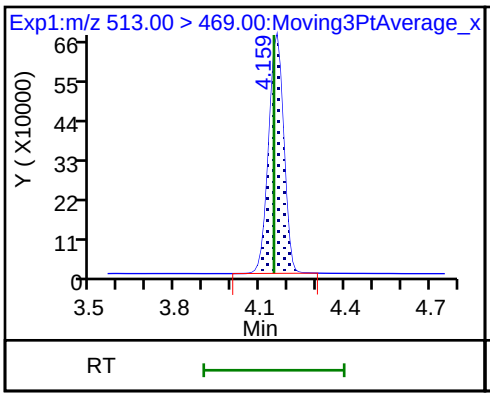
68 Perfluorononanesulfonic acid



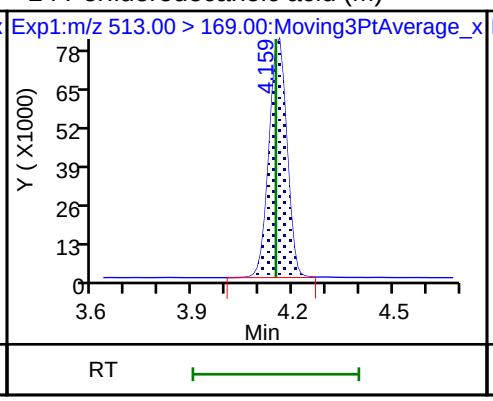
D 23 13C2 PFDA



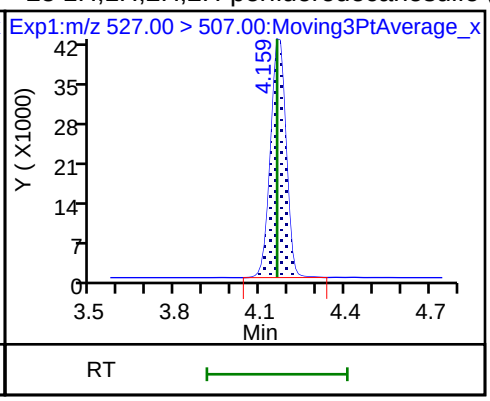
24 Perfluorodecanoic acid



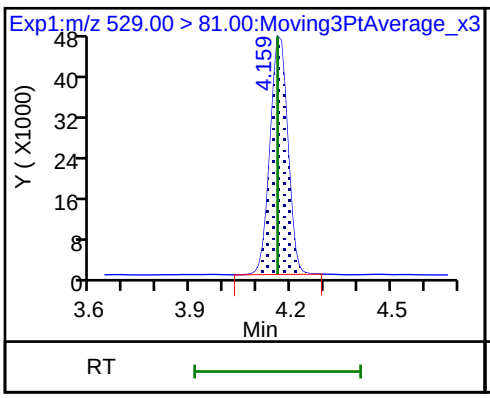
24 Perfluorodecanoic acid (M)



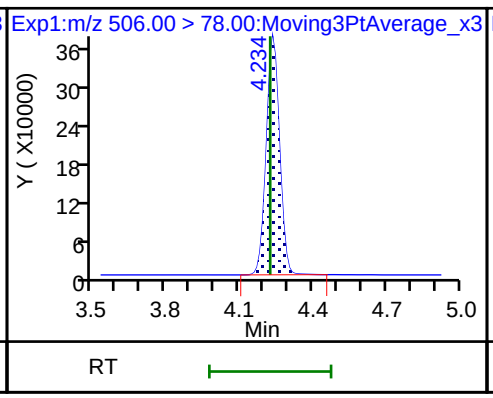
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



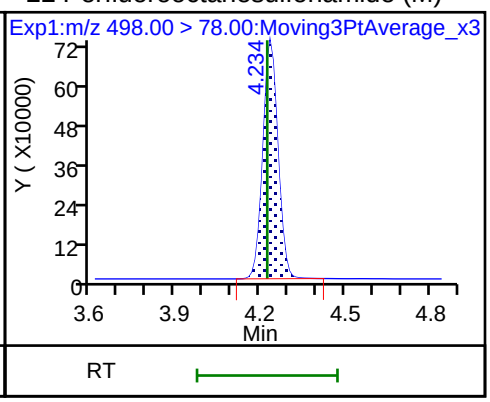
D 26 M2-8:2 FTS



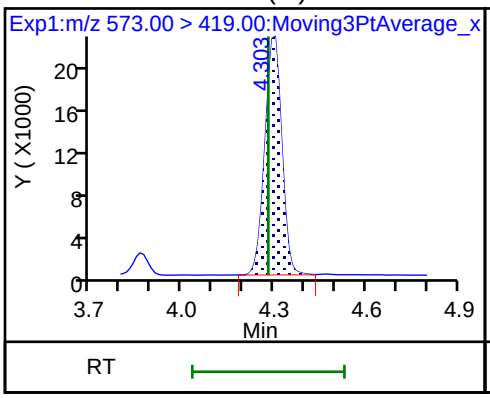
D 21 13C8 FOSA



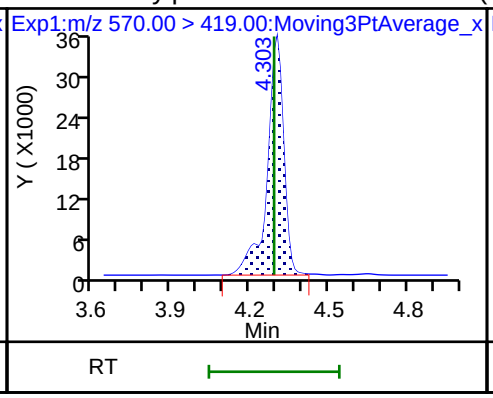
22 Perfluorooctanesulfonamide (M)



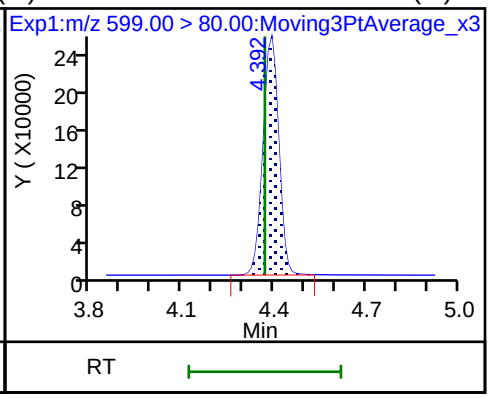
D 27 d3-NMeFOSAA (M)



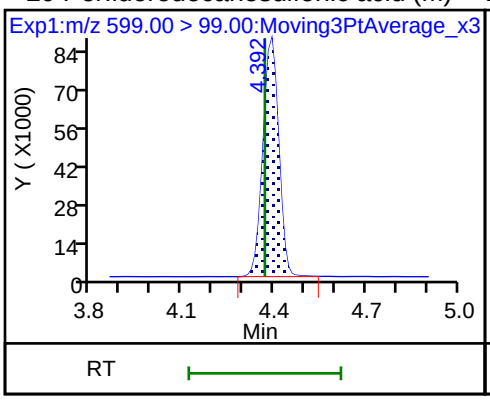
28 N-methylperfluorooctanesulfonami (M)



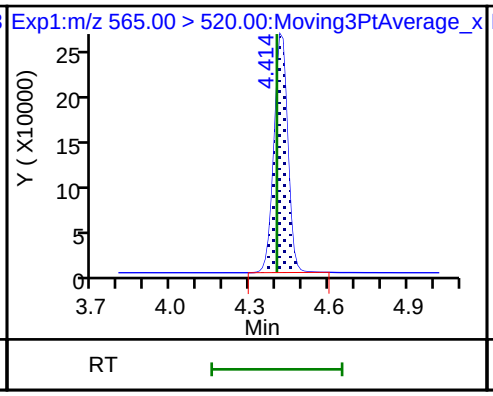
29 Perfluorodecanesulfonic acid (M)



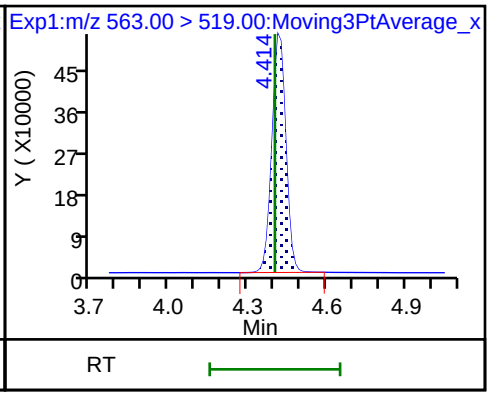
29 Perfluorodecanesulfonic acid (M)



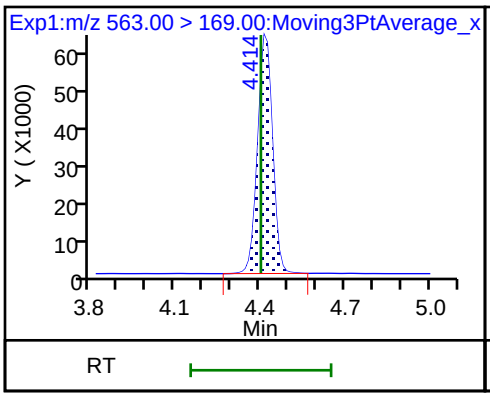
D 30 13C2 PFUnA



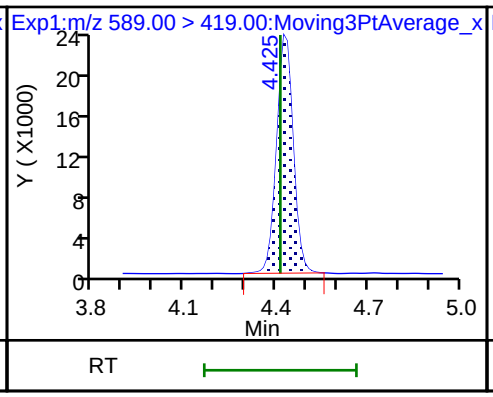
31 Perfluoroundecanoic acid



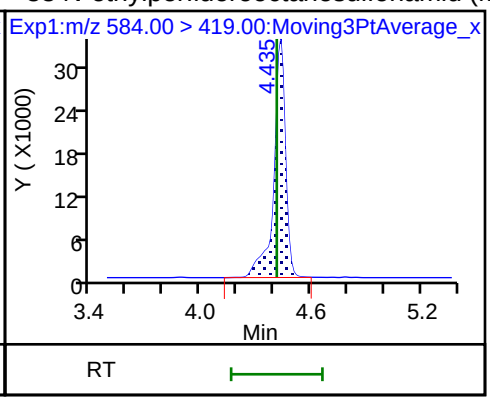
31 Perfluoroundecanoic acid



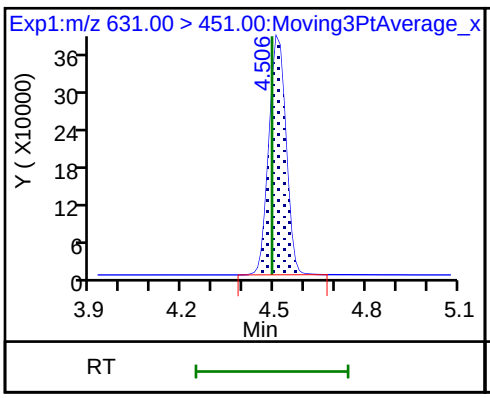
D 32 d5-NEtFOSAA



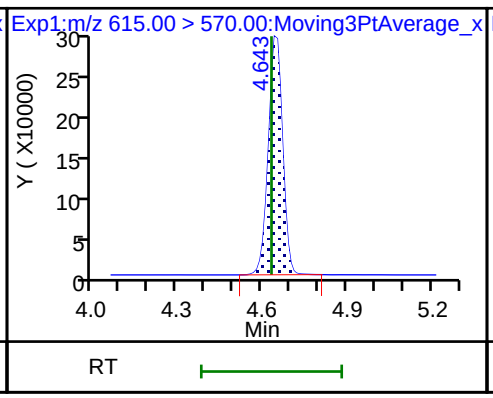
33 N-ethylperfluorooctanesulfonamid (M)



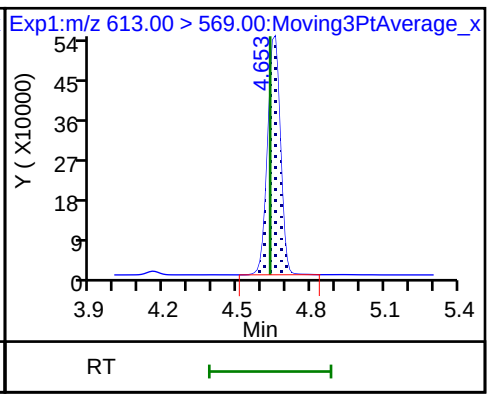
66 11-Chloroeicosafluoro-3-oxaundec



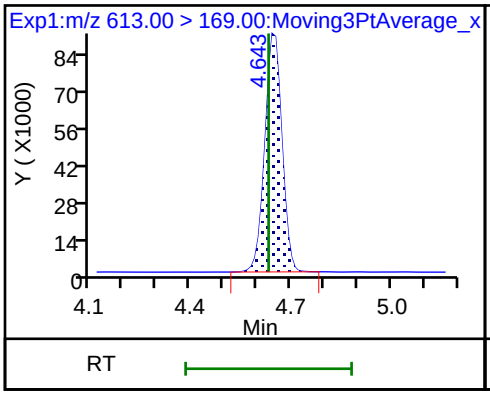
D 36 13C2 PFDoA



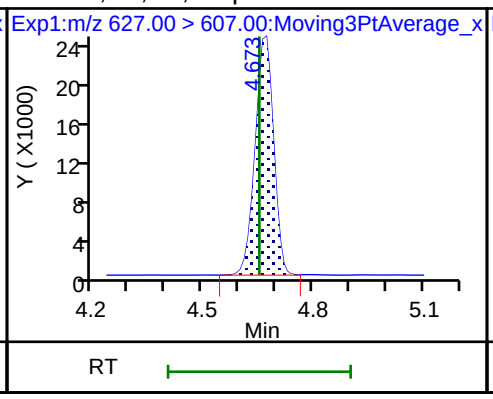
37 Perfluorododecanoic acid



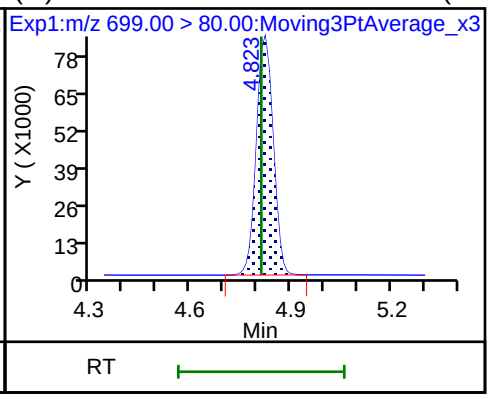
37 Perfluorododecanoic acid



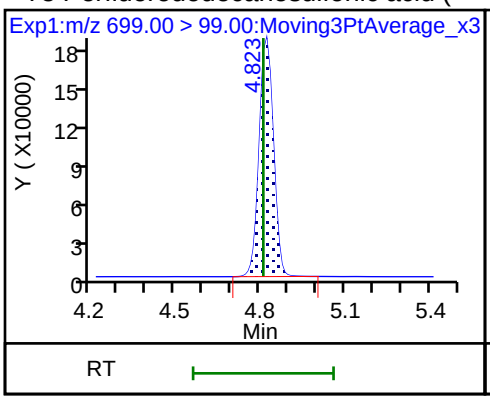
74 1H,1H,2H,2H-perfluorododecanesul (M)



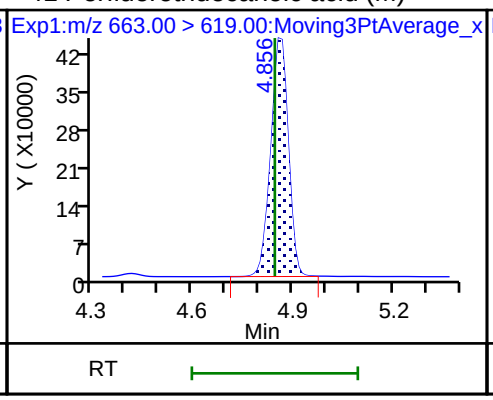
75 Perfluorododecanesulfonic acid (



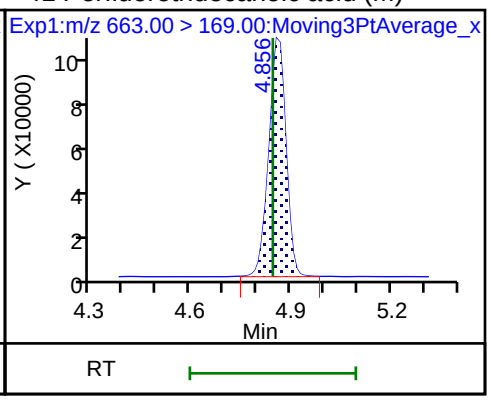
75 Perfluorododecanesulfonic acid (



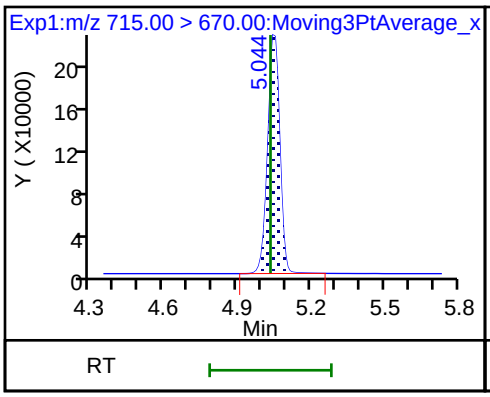
41 Perfluorotridecanoic acid (M)



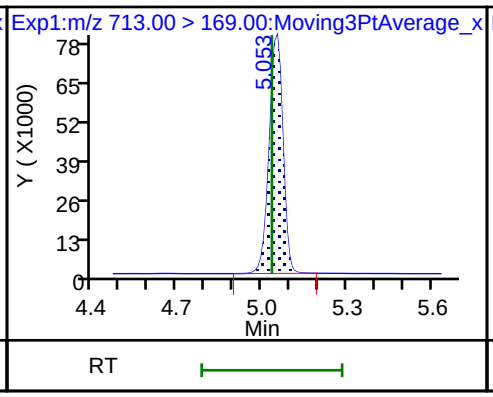
41 Perfluorotridecanoic acid (M)



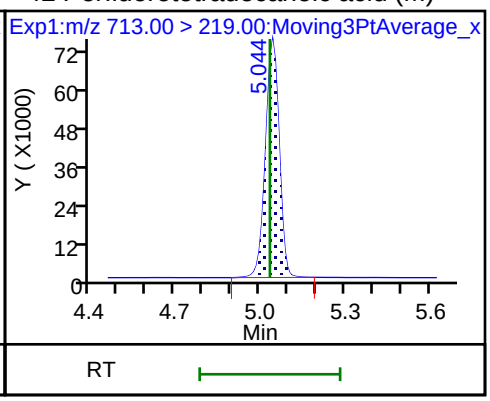
D 43 13C2 PFTeDA



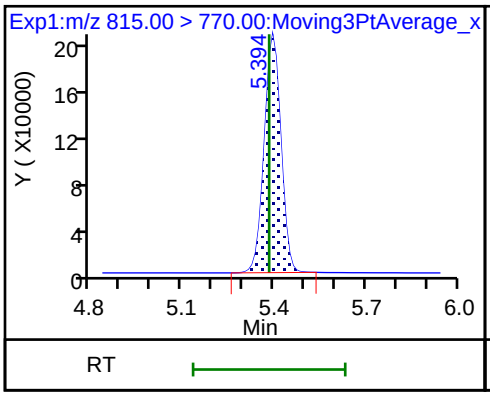
42 Perfluorotetradecanoic acid



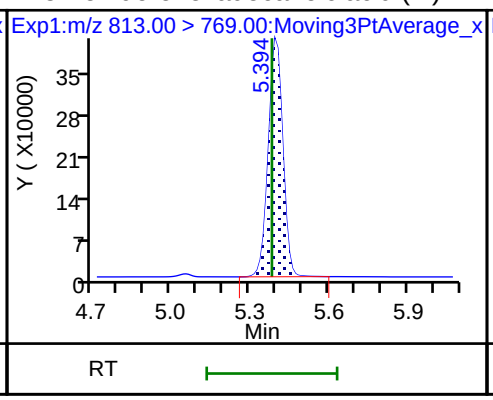
42 Perfluorotetradecanoic acid (M)



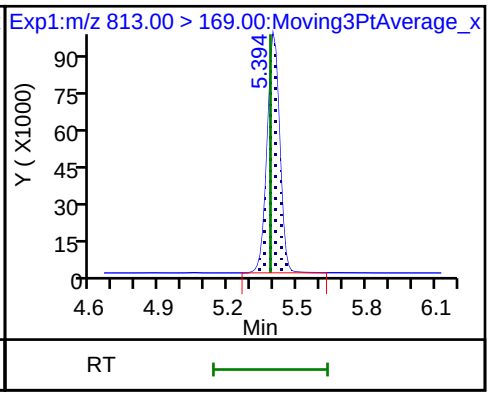
D 44 13C2 PFHxDA



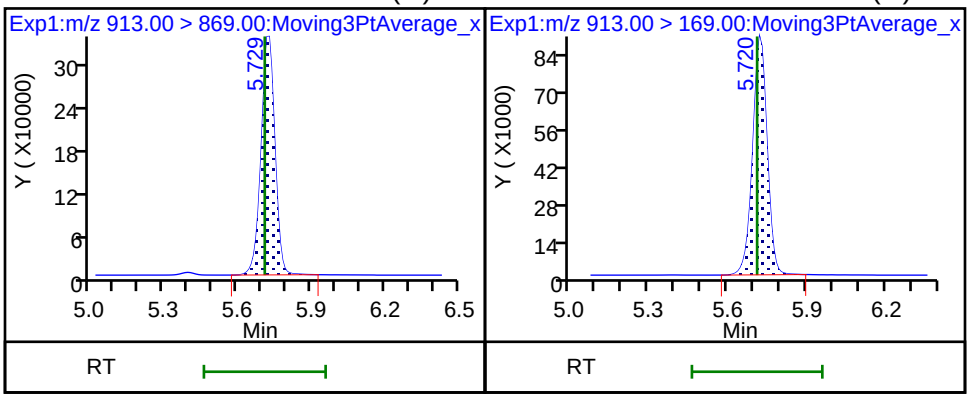
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

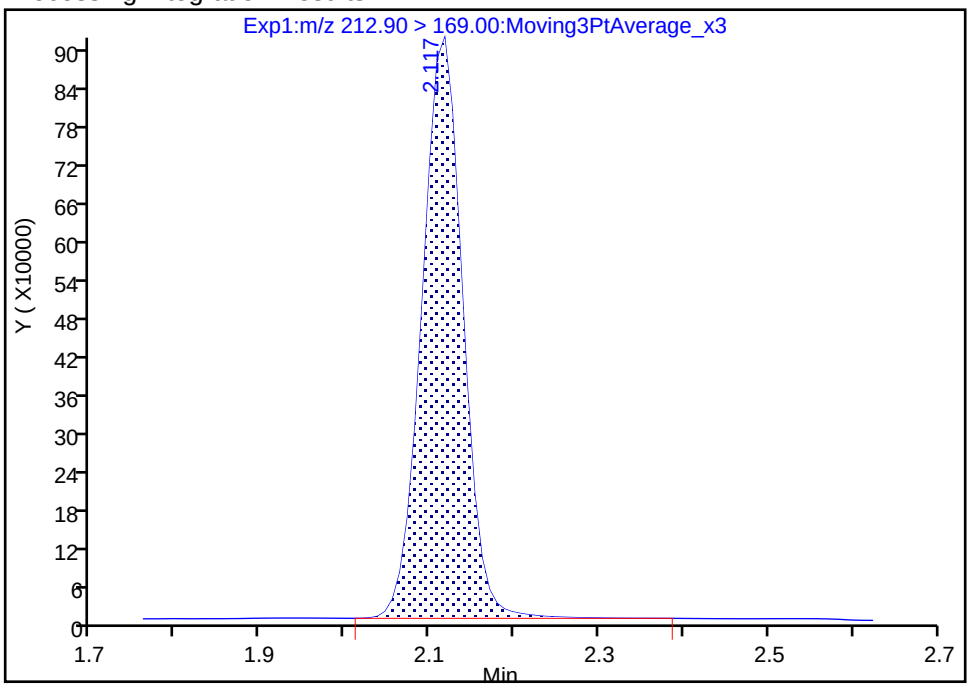
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d				
Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

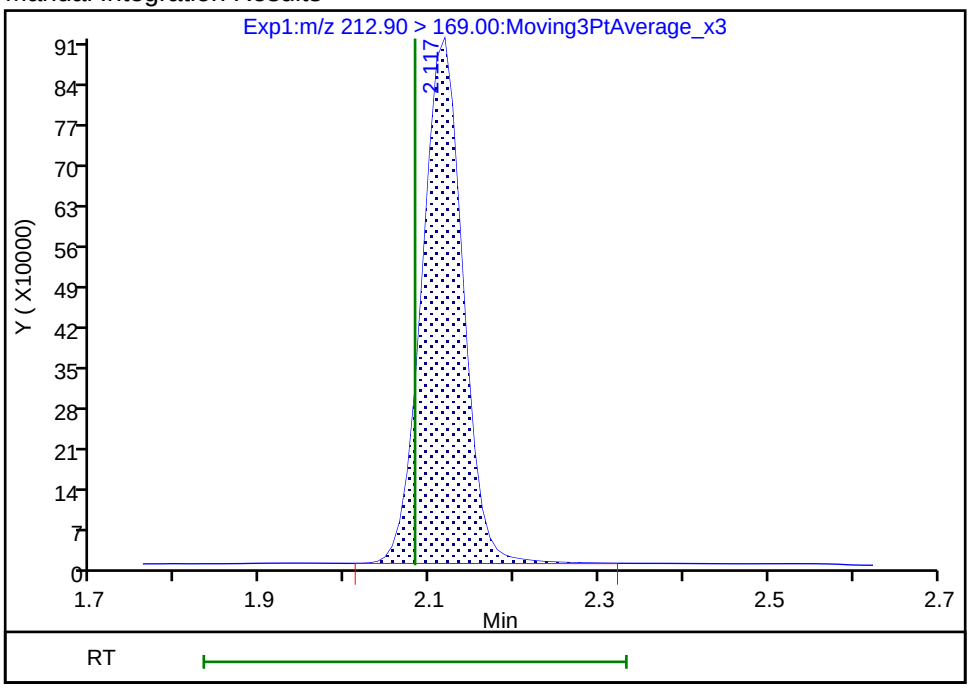
Processing Integration Results

RT: 2.12
Area: 3058140
Amount: 2.295250
Amount Units: ng/ml



Manual Integration Results

RT: 2.12
Area: 3061597
Amount: 2.297845
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:57:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

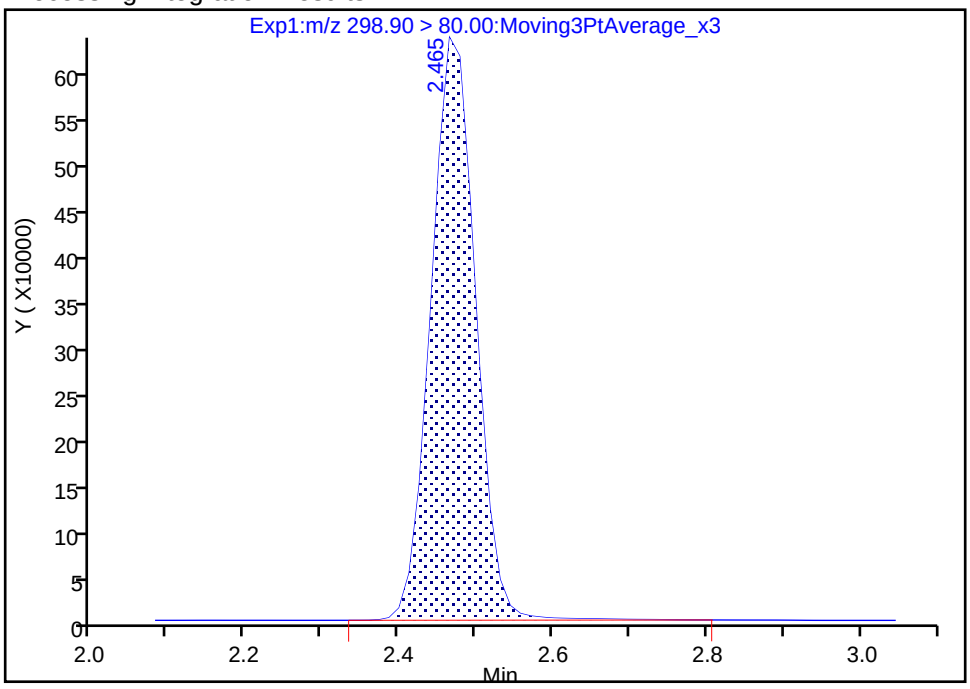
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Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

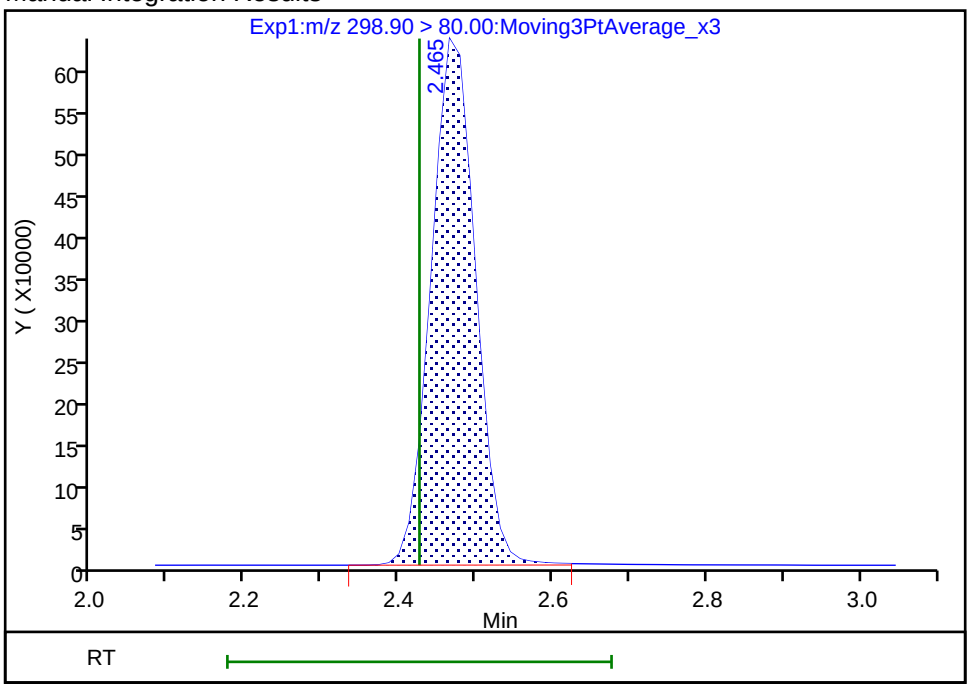
Processing Integration Results

RT: 2.47
Area: 2547136
Amount: 2.113941
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 2540090
Amount: 2.108094
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:02:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

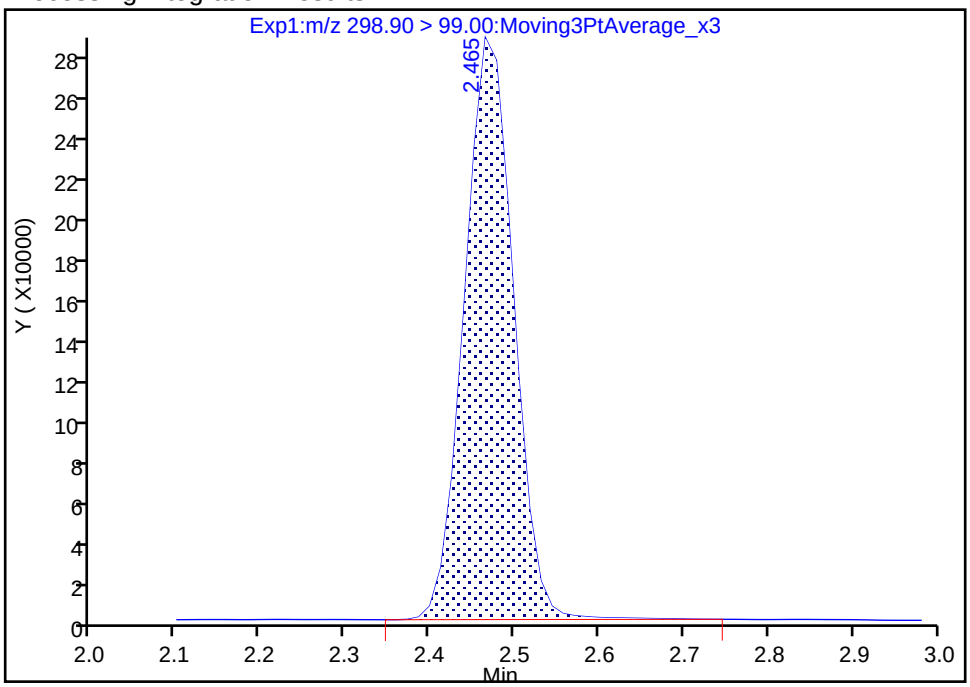
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d				
Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

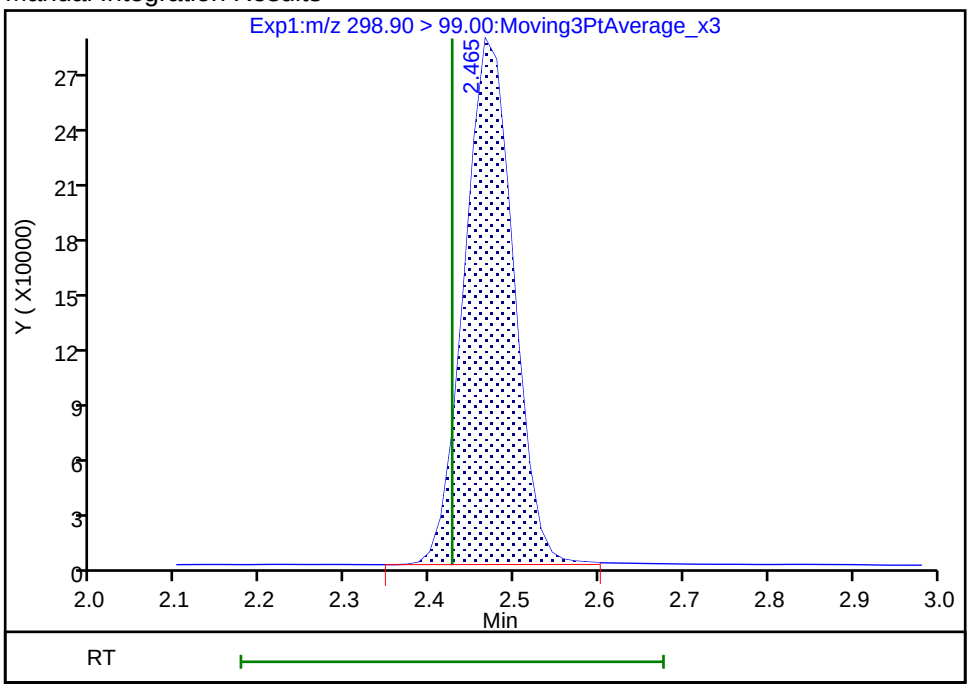
Processing Integration Results

RT: 2.47
Area: 1162782
Amount: 2.113941
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1159588
Amount: 2.108094
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:02:57

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

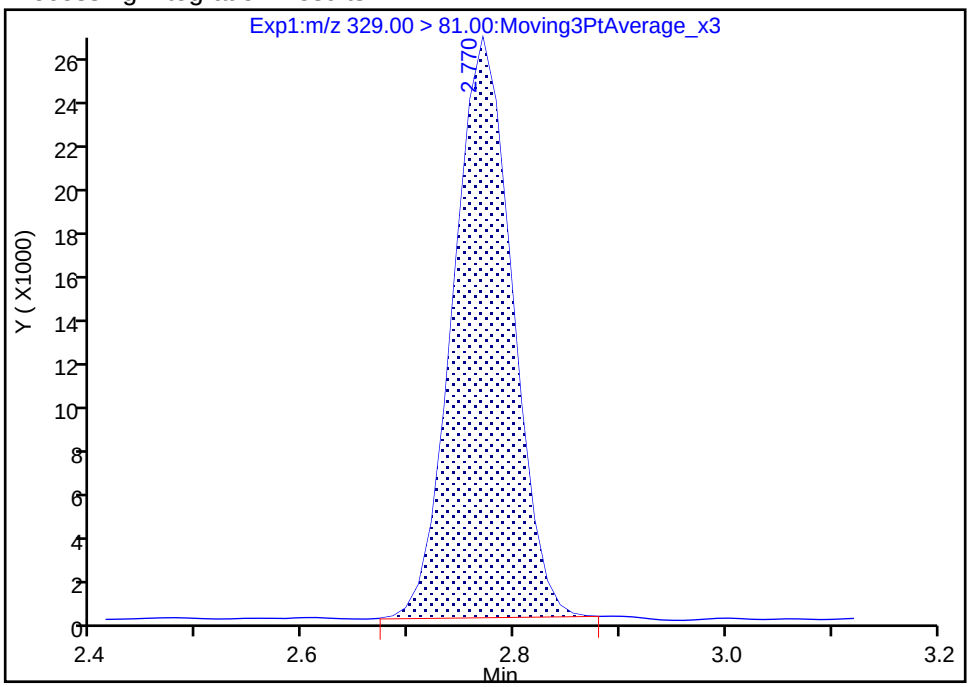
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Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

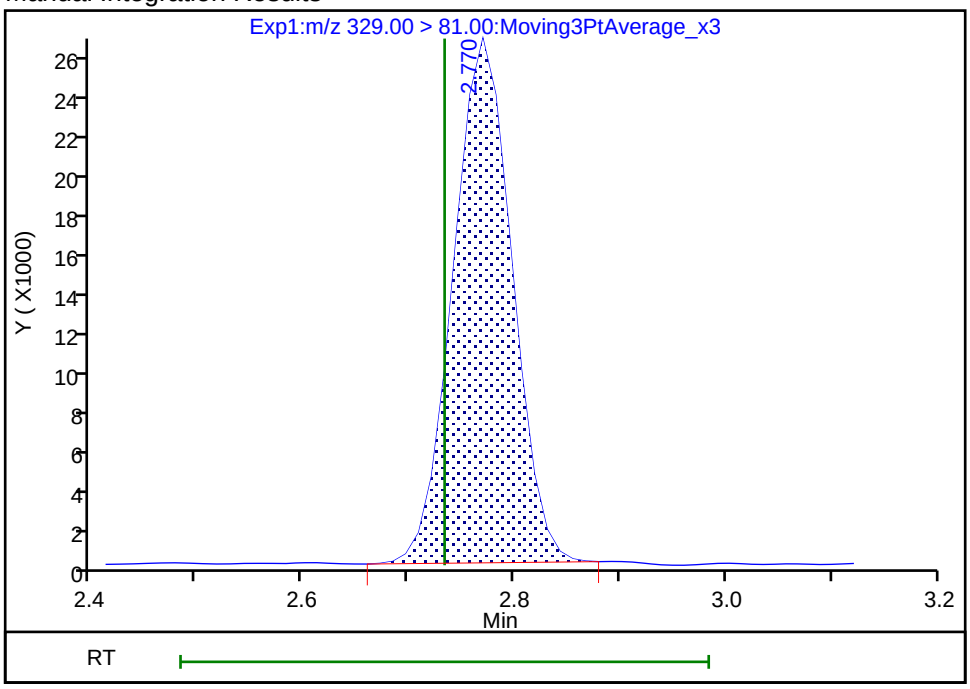
Processing Integration Results

RT: 2.77
Area: 101940
Amount: 1.080141
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 101927
Amount: 1.080004
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:53:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

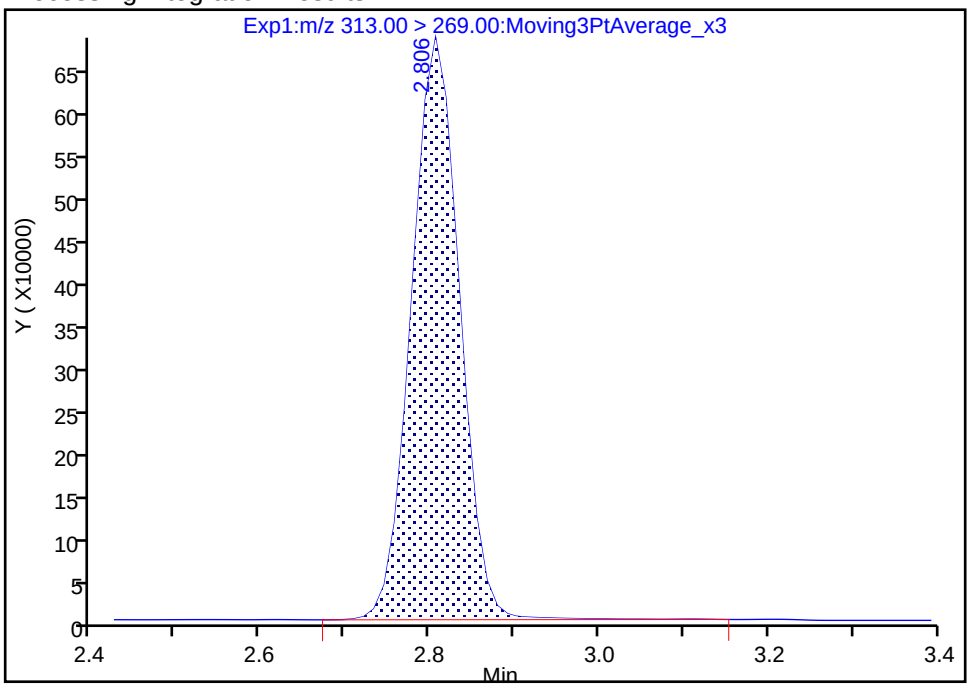
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d				
Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

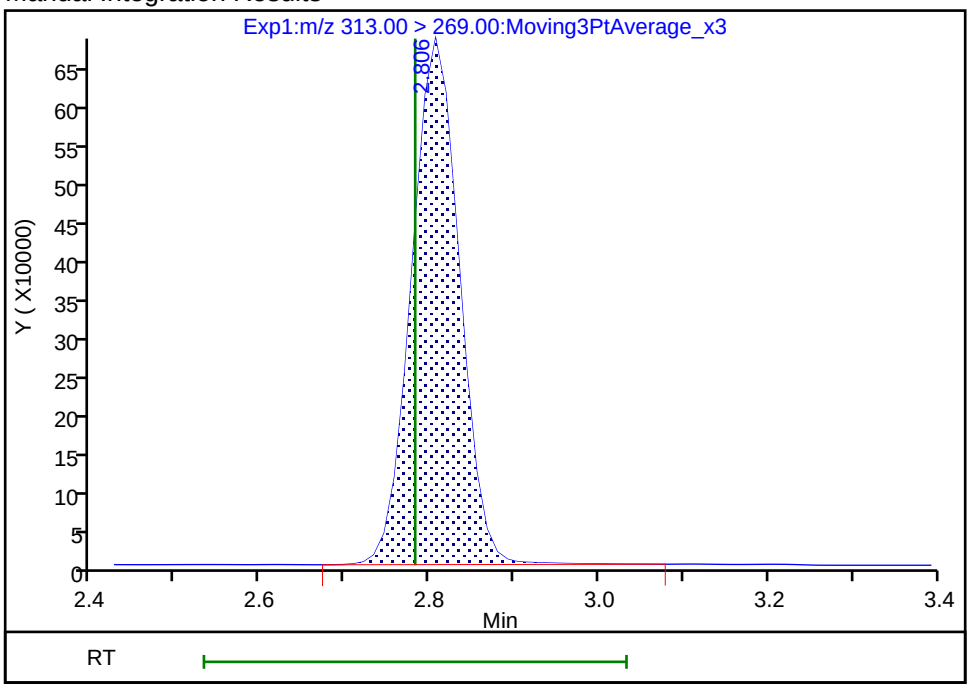
Processing Integration Results

RT: 2.81
Area: 2675833
Amount: 2.410587
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 2670139
Amount: 2.405457
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:03:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

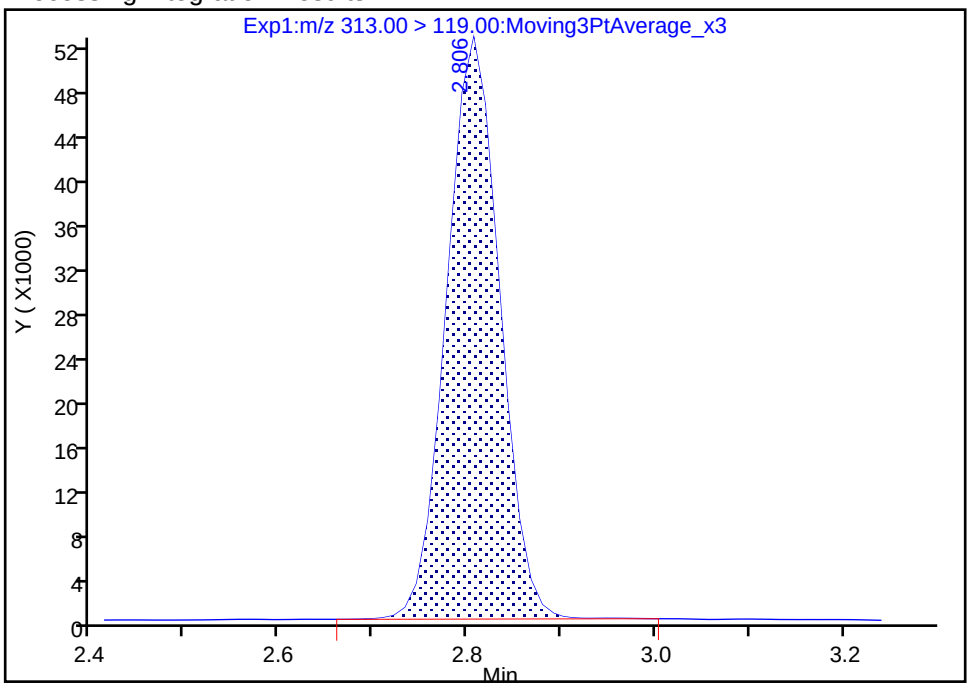
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Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

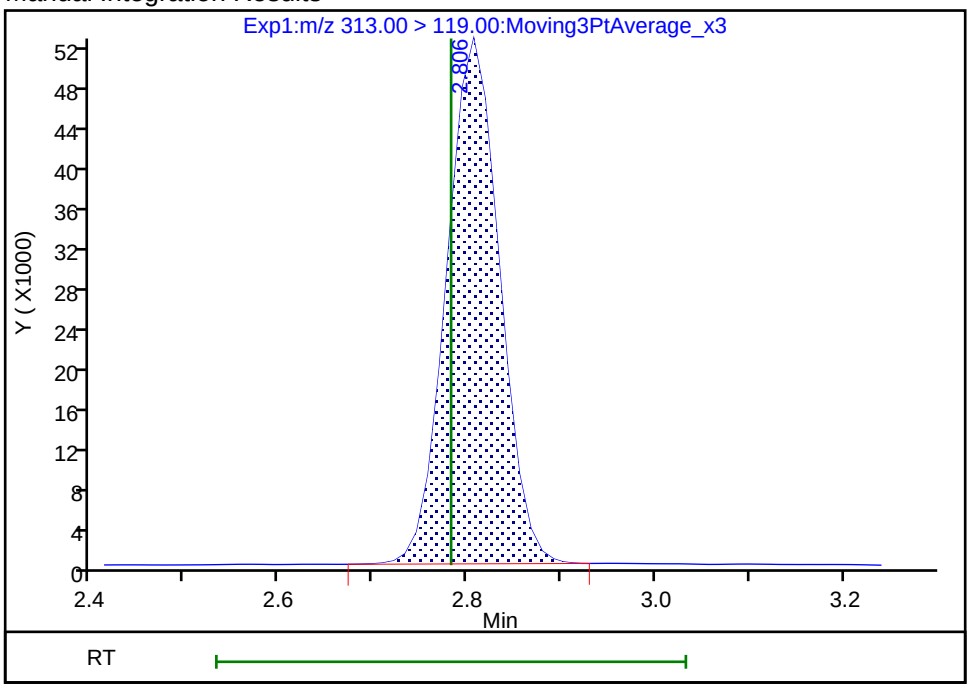
Processing Integration Results

RT: 2.81
Area: 203577
Amount: 2.410587
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 203100
Amount: 2.405457
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:03:22

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

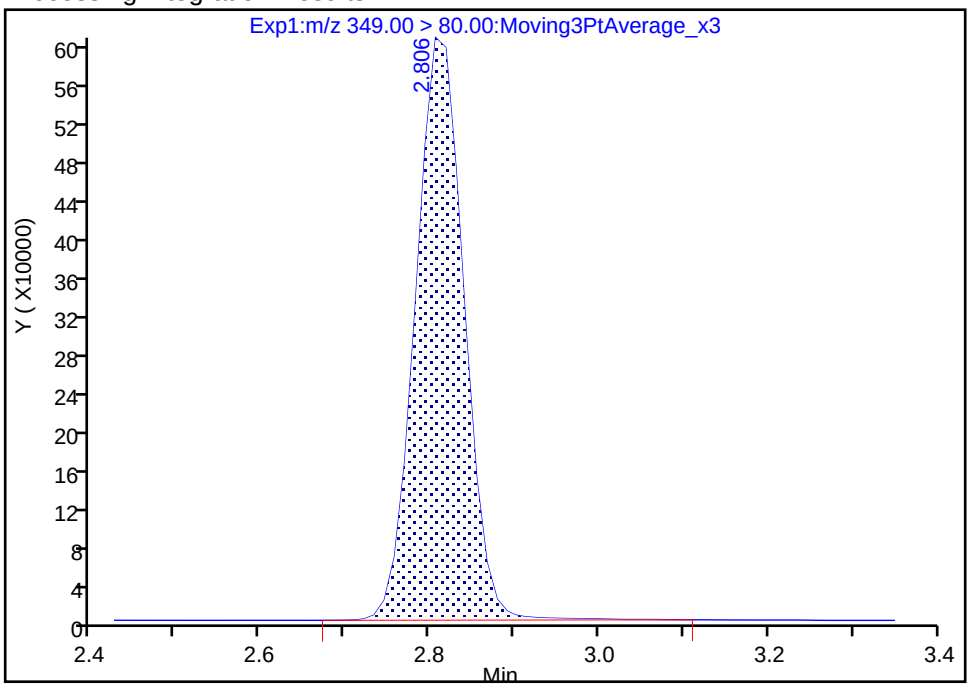
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d
Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

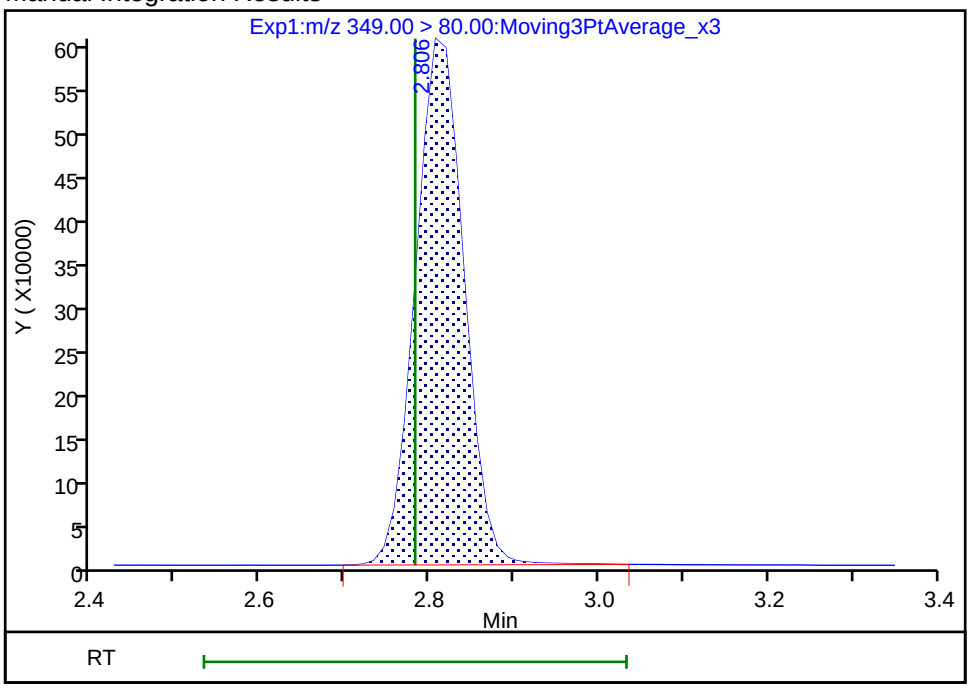
Processing Integration Results

RT: 2.81
Area: 2402823
Amount: 2.264464
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 2397096
Amount: 2.259067
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:03:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

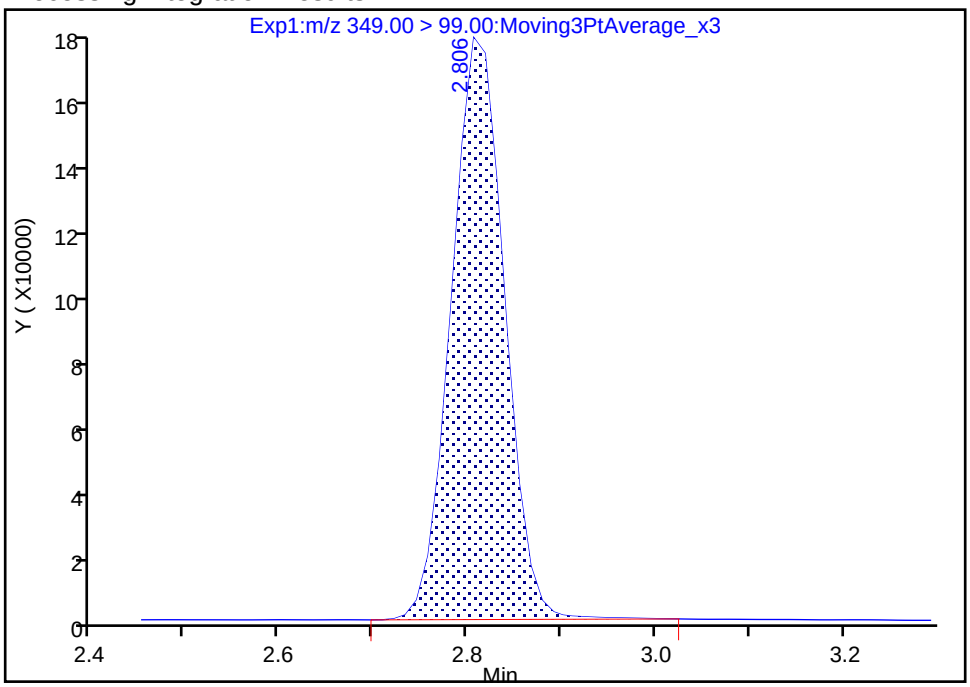
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d				
Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

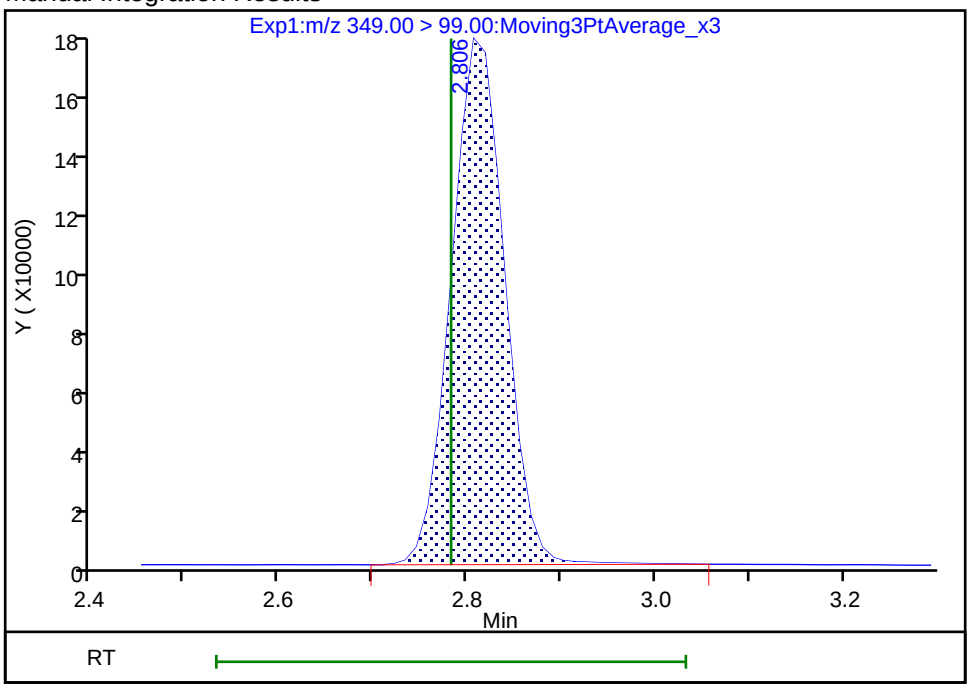
Processing Integration Results

RT: 2.81
Area: 677260
Amount: 2.264464
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 678631
Amount: 2.259067
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:03:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

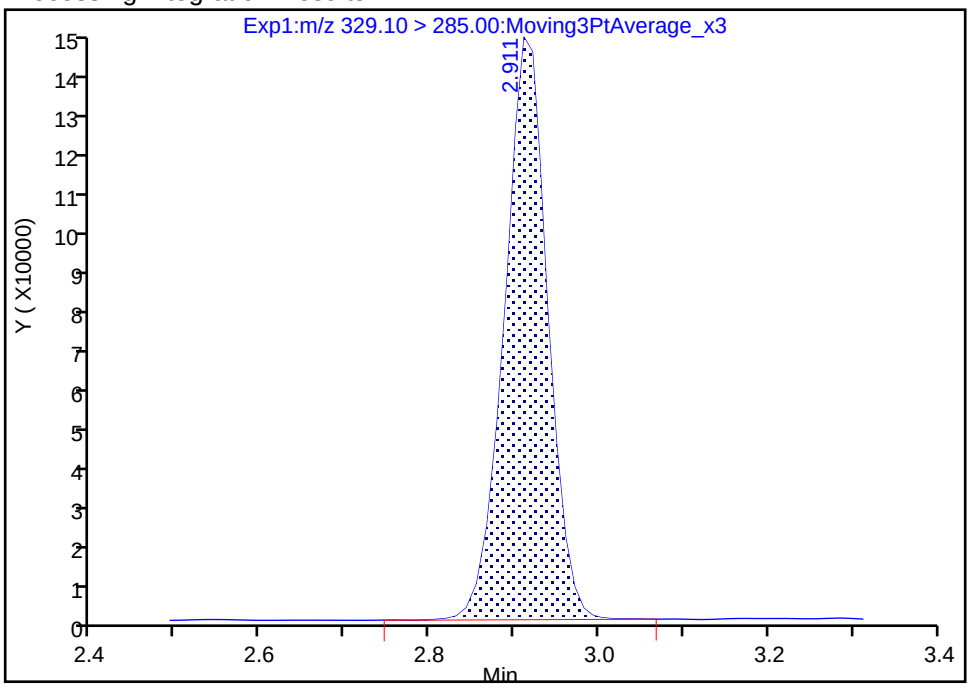
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Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

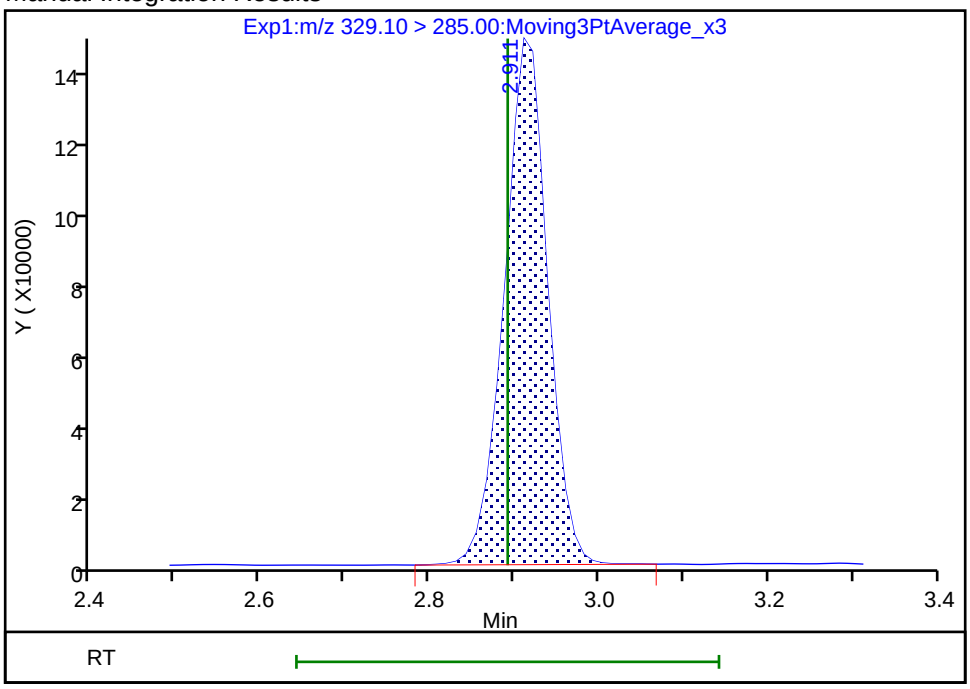
Processing Integration Results

RT: 2.91
Area: 502710
Amount: 1.968265
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 502634
Amount: 1.967968
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:03:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

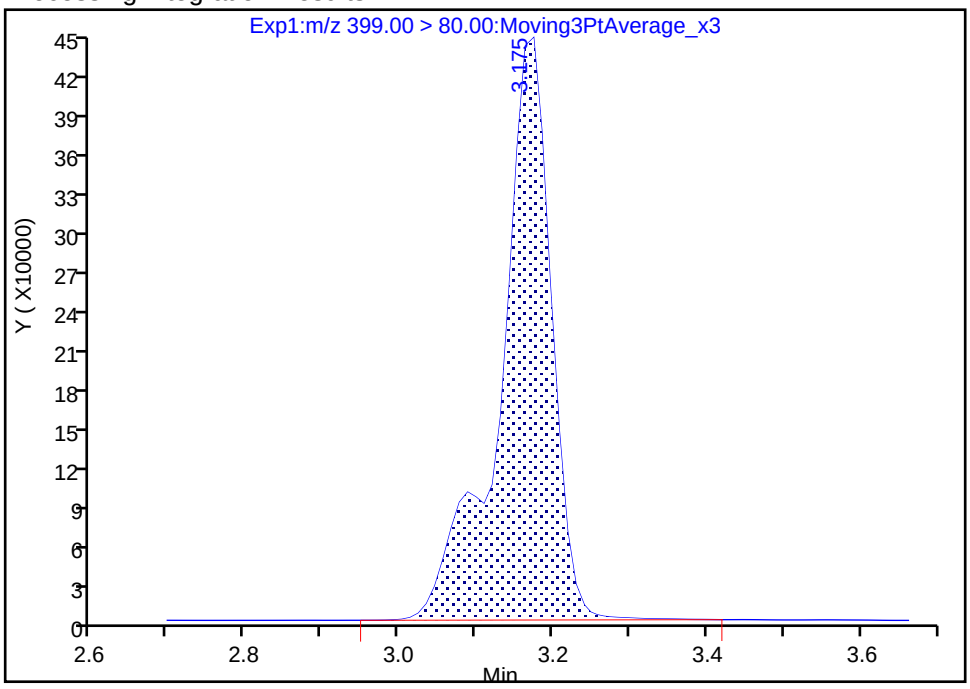
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d				
Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

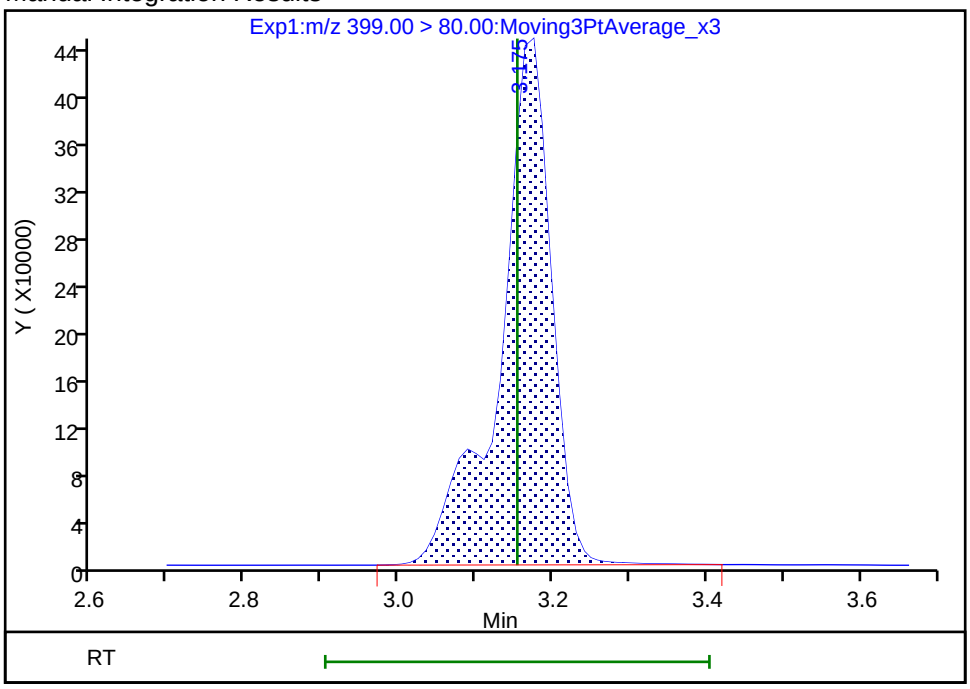
Processing Integration Results

RT: 3.17
Area: 2063902
Amount: 2.066279
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 2063669
Amount: 2.066046
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:04:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

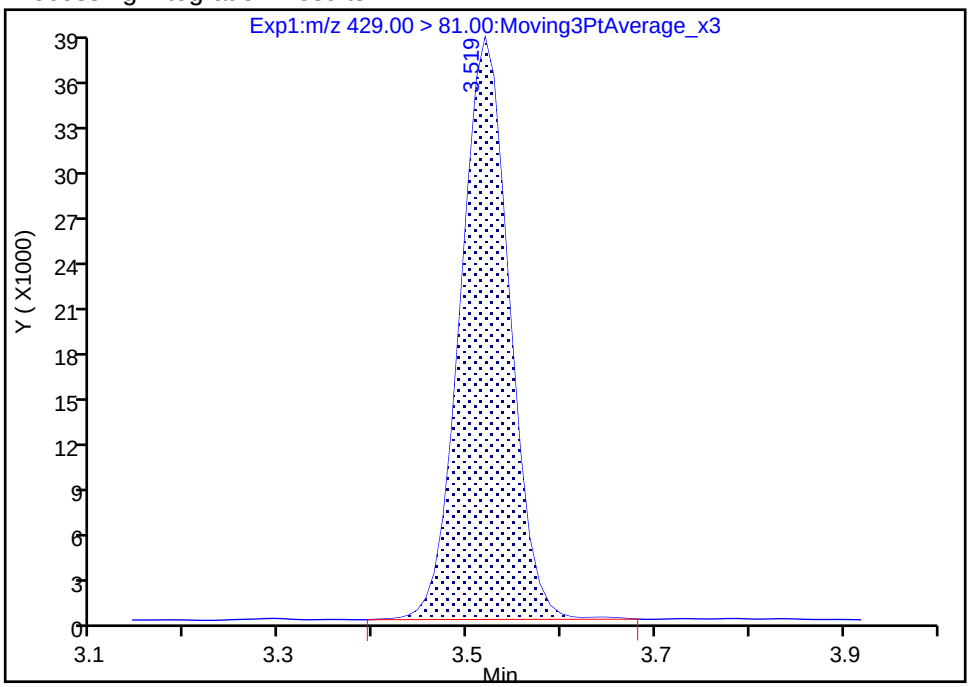
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d
Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

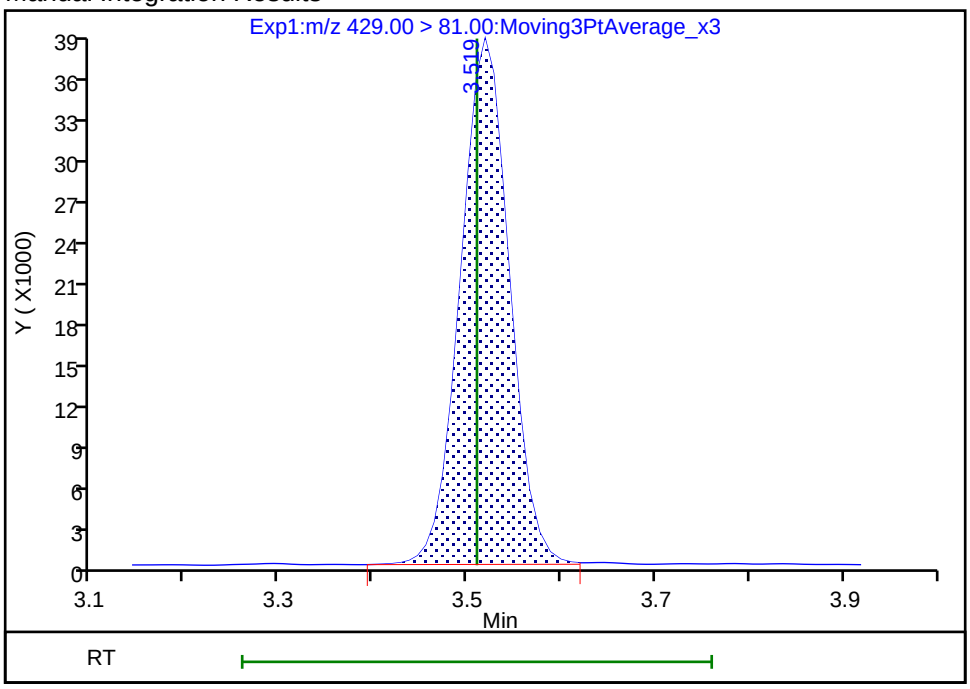
Processing Integration Results

RT: 3.52
Area: 139936
Amount: 1.111634
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 139616
Amount: 1.109092
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:53:31
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

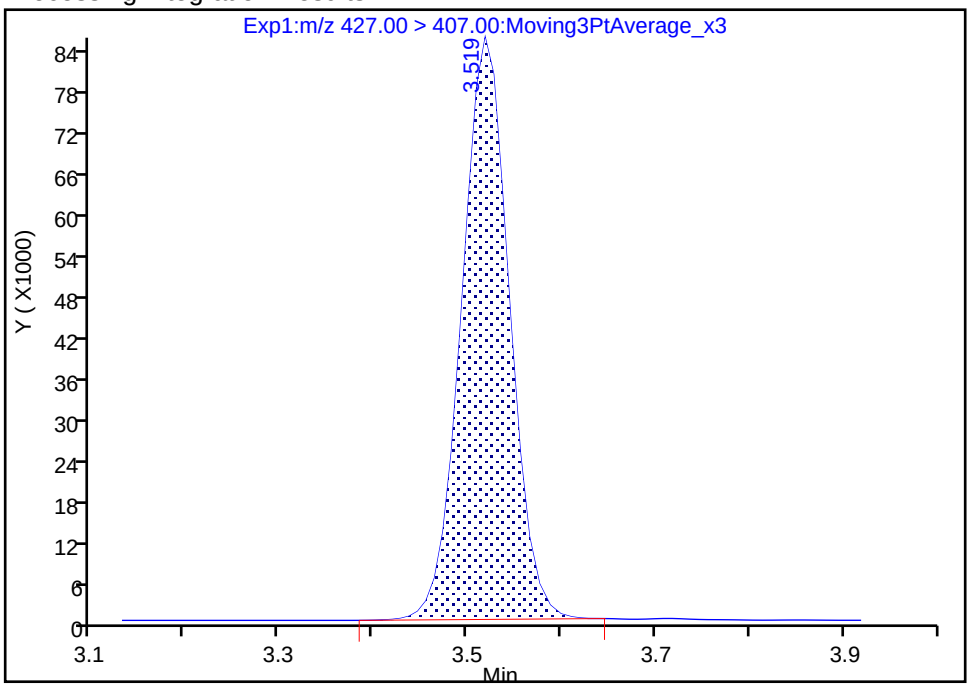
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d
Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

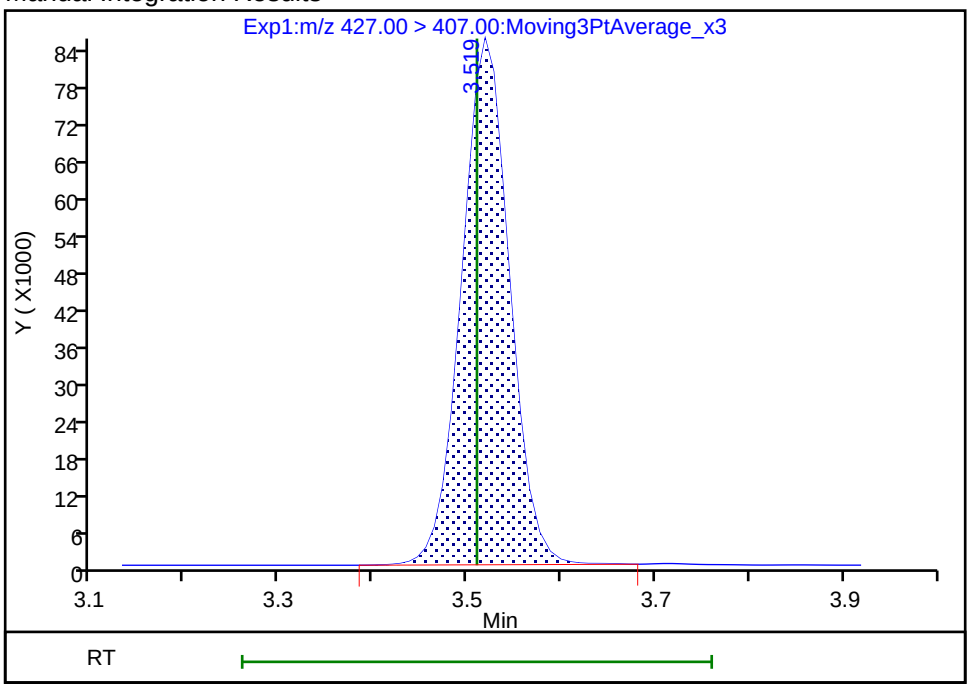
Processing Integration Results

RT: 3.52
Area: 300966
Amount: 2.469913
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 302022
Amount: 2.478579
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:05:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

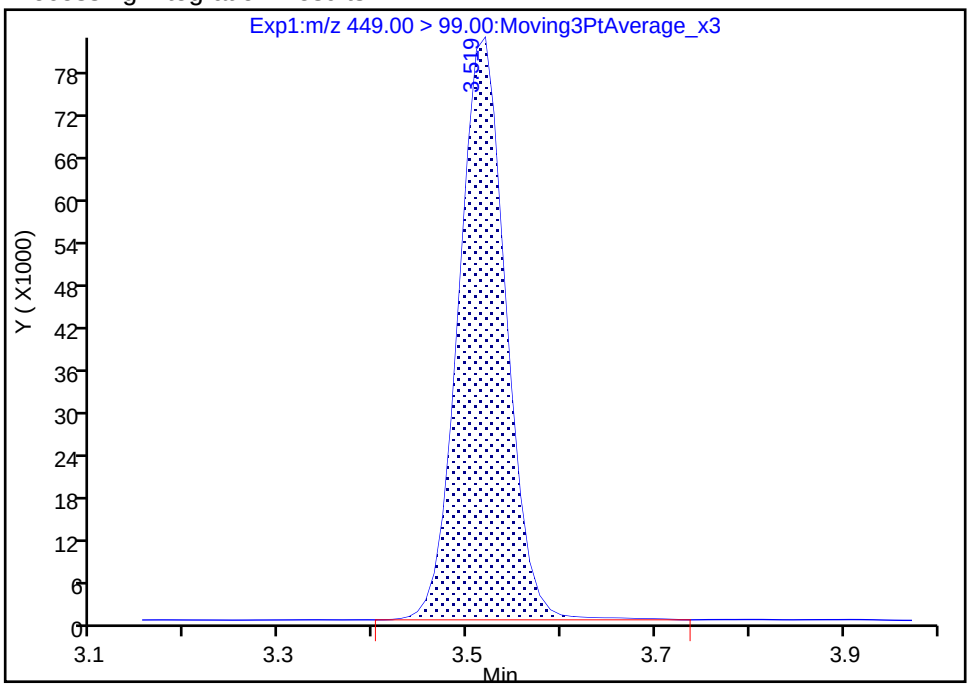
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Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

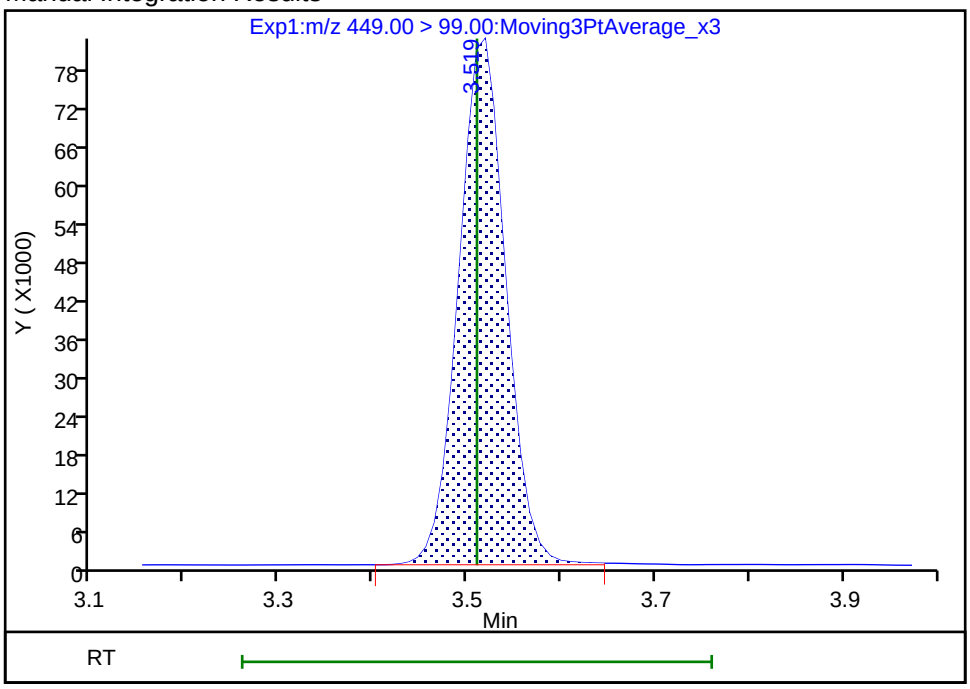
Processing Integration Results

RT: 3.52
Area: 286389
Amount: 2.374334
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 285698
Amount: 2.374334
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:04:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

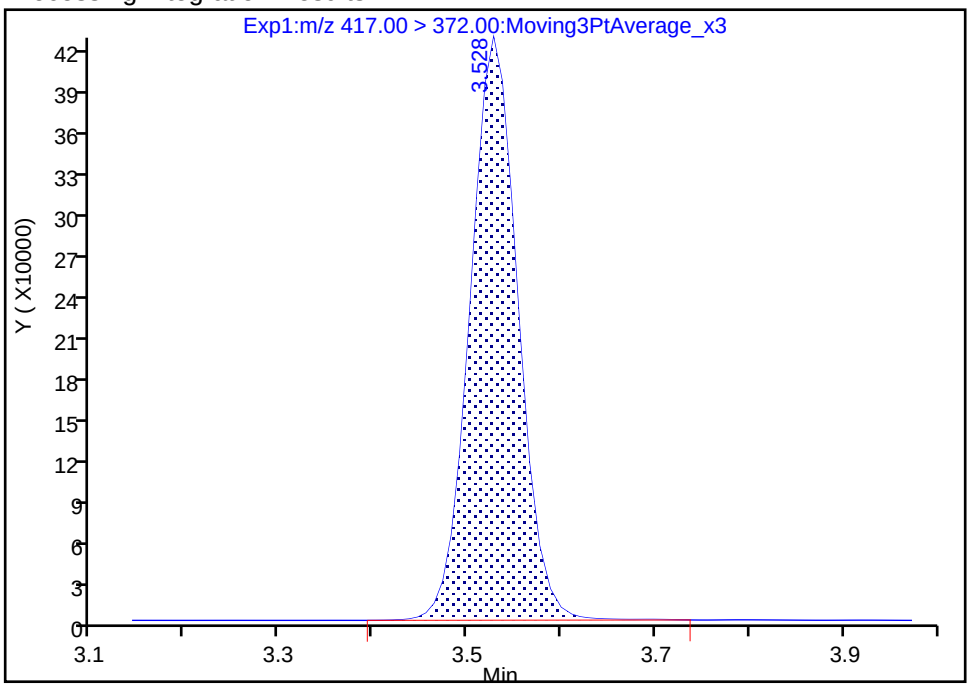
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Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

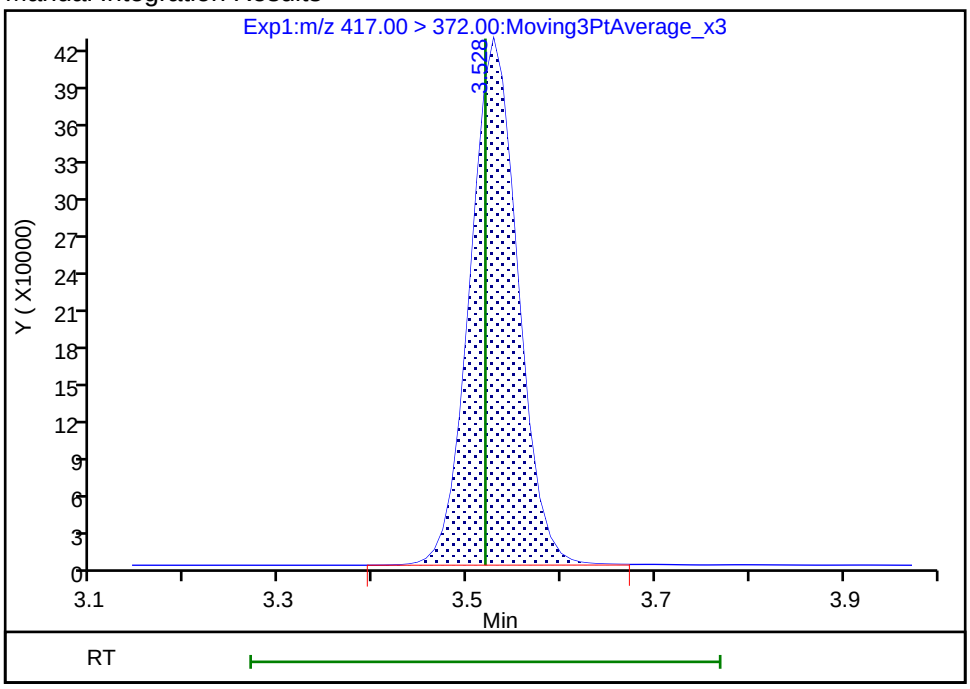
Processing Integration Results

RT: 3.53
Area: 1515524
Amount: 1.232727
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 1514949
Amount: 1.232260
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:53:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

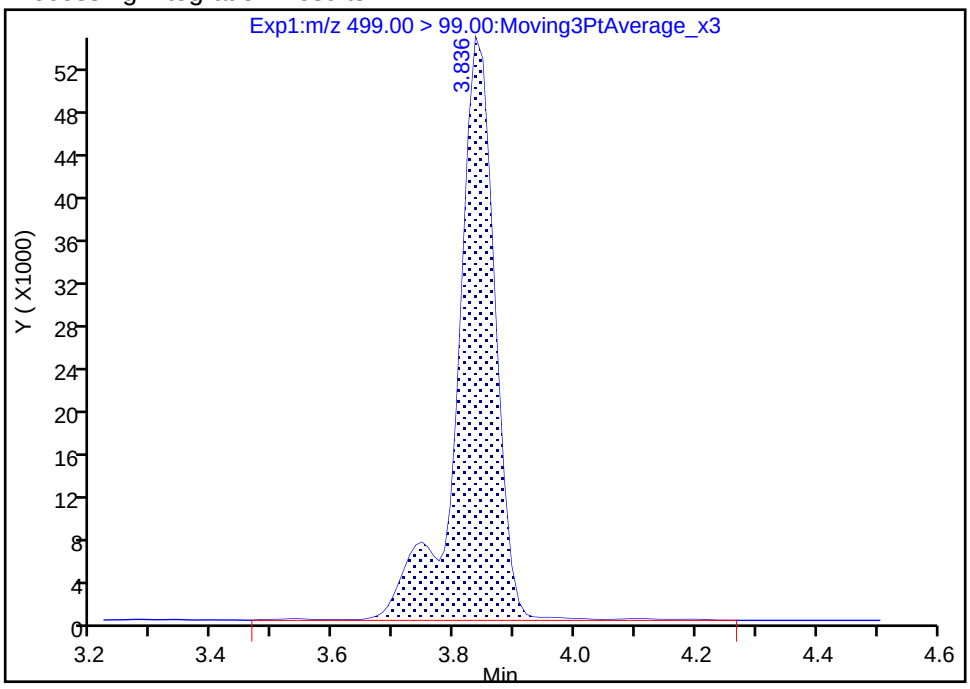
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Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

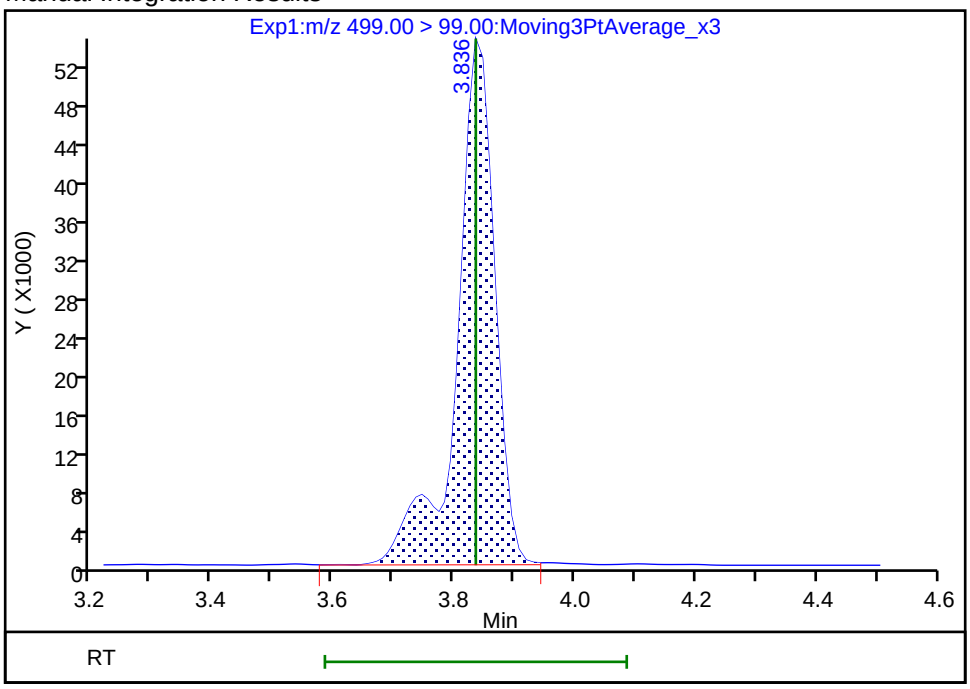
Processing Integration Results

RT: 3.84
Area: 240019
Amount: 2.124477
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 236614
Amount: 2.094054
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:05:54

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

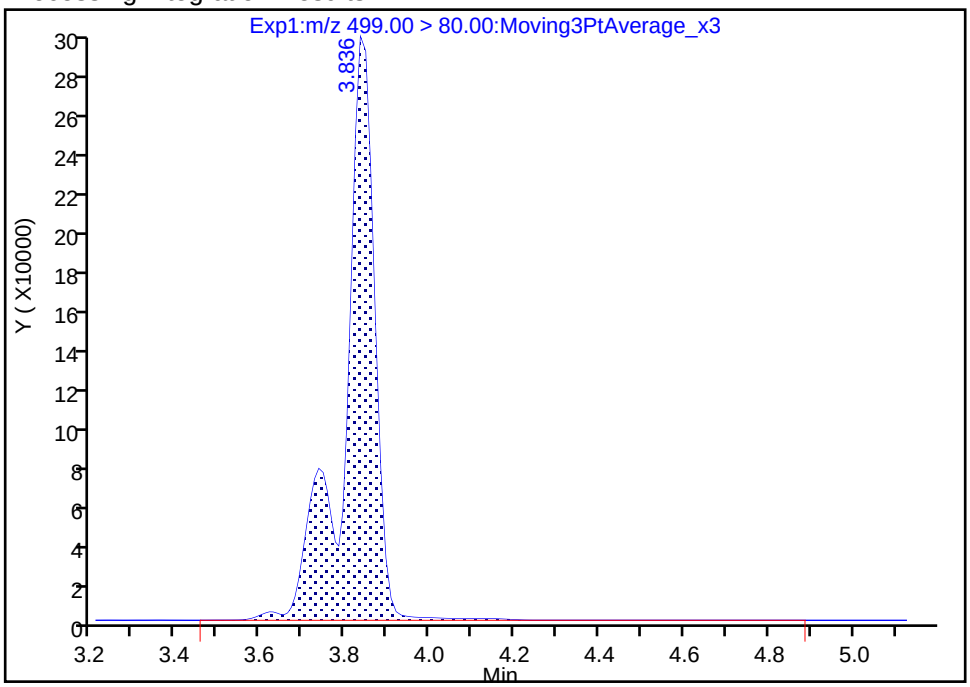
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Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

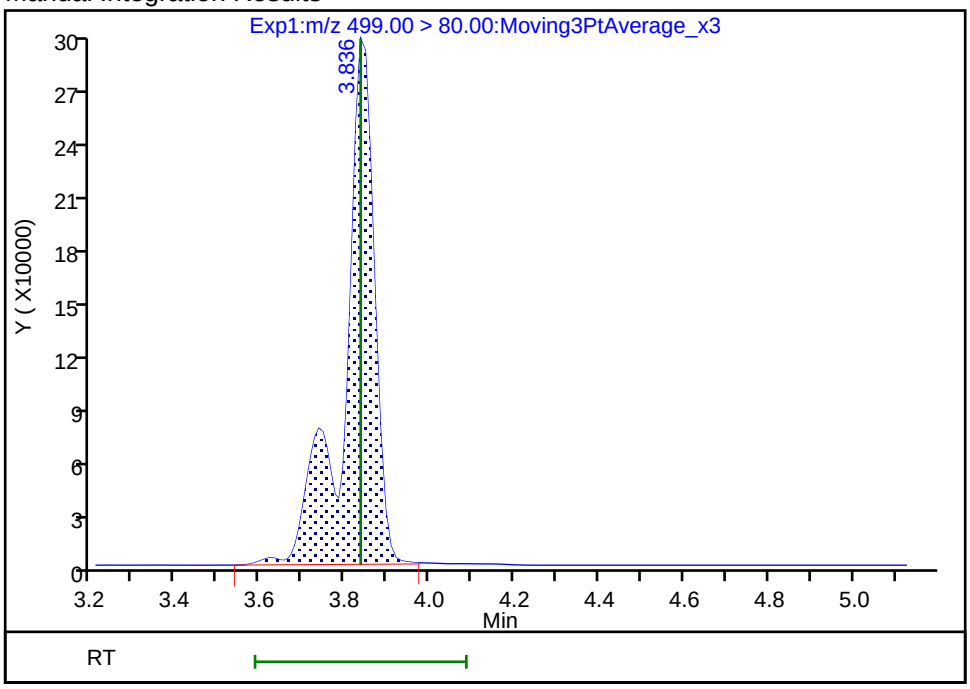
Processing Integration Results

RT: 3.84
Area: 1492359
Amount: 2.124477
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 1470988
Amount: 2.094054
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:06:23

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

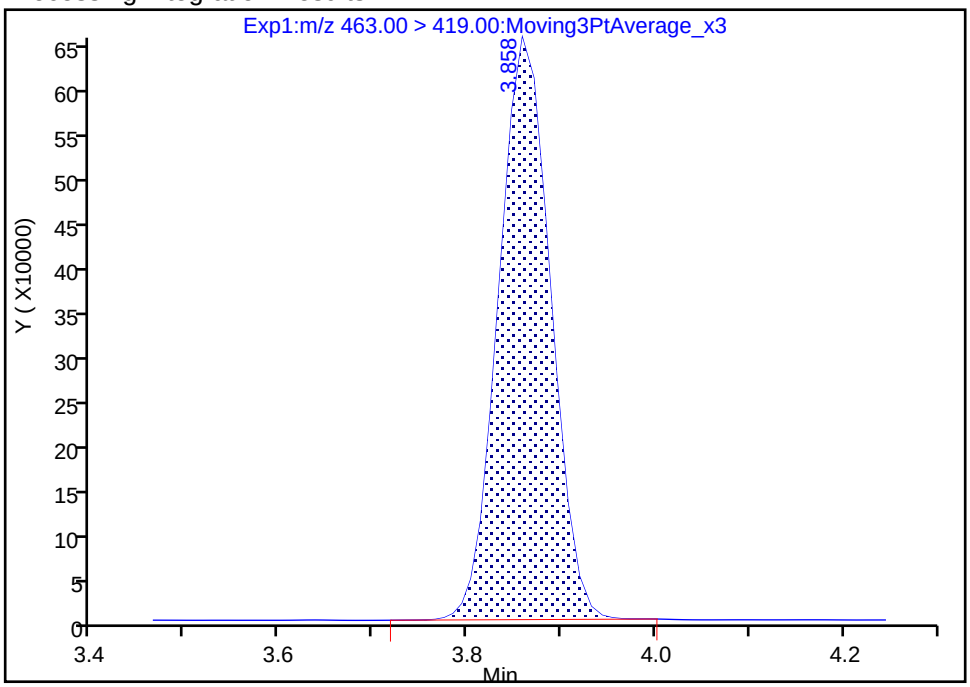
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Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

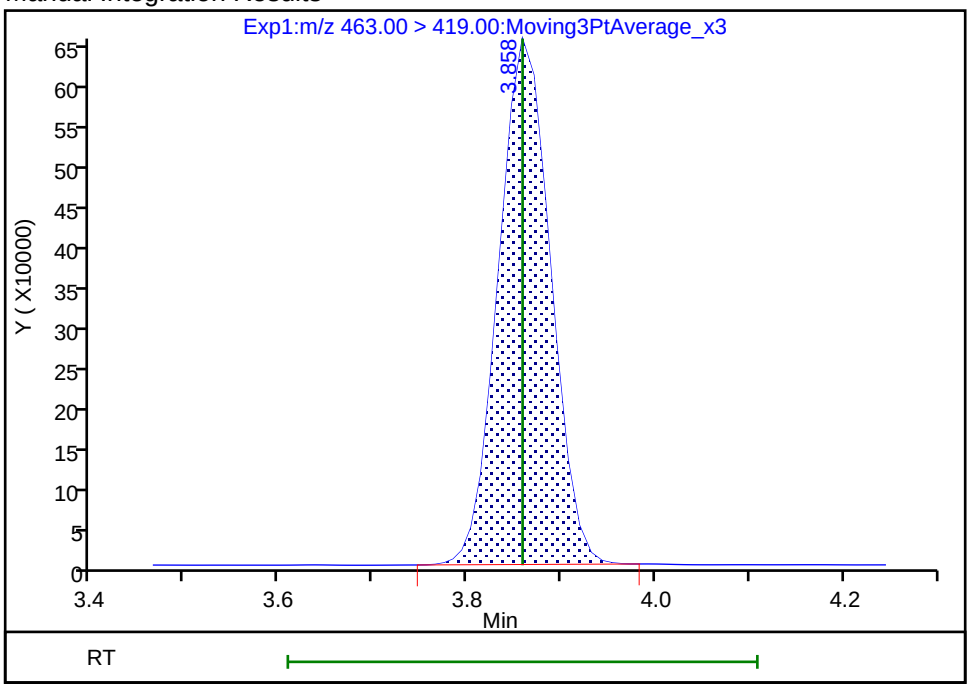
Processing Integration Results

RT: 3.86
Area: 2524727
Amount: 2.505712
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 2523125
Amount: 2.504122
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:06:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

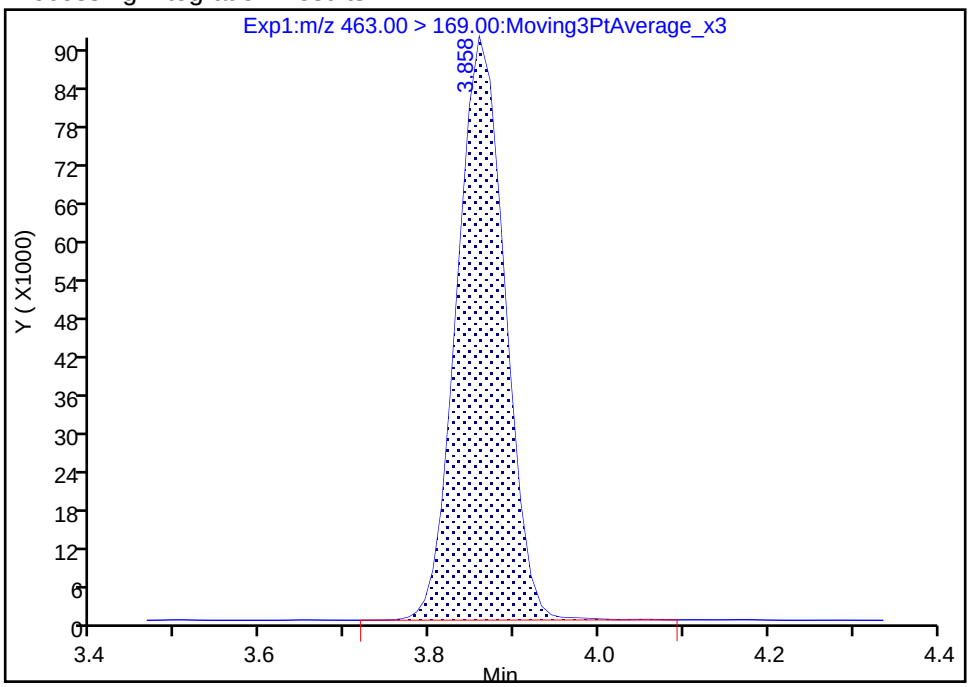
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Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

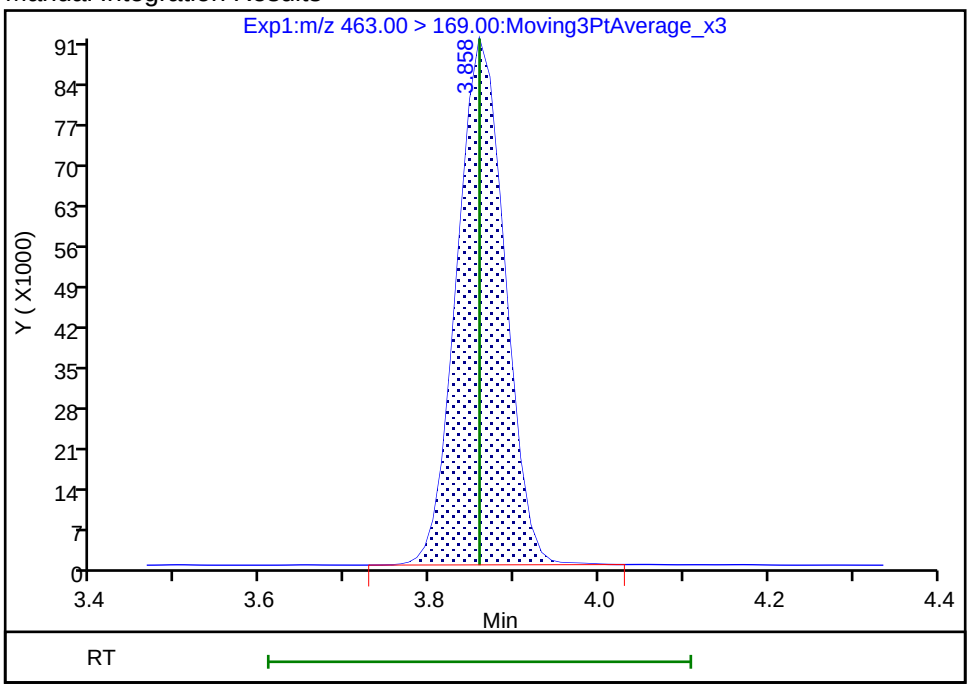
Processing Integration Results

RT: 3.86
Area: 359105
Amount: 2.505712
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 358504
Amount: 2.504122
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:06:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

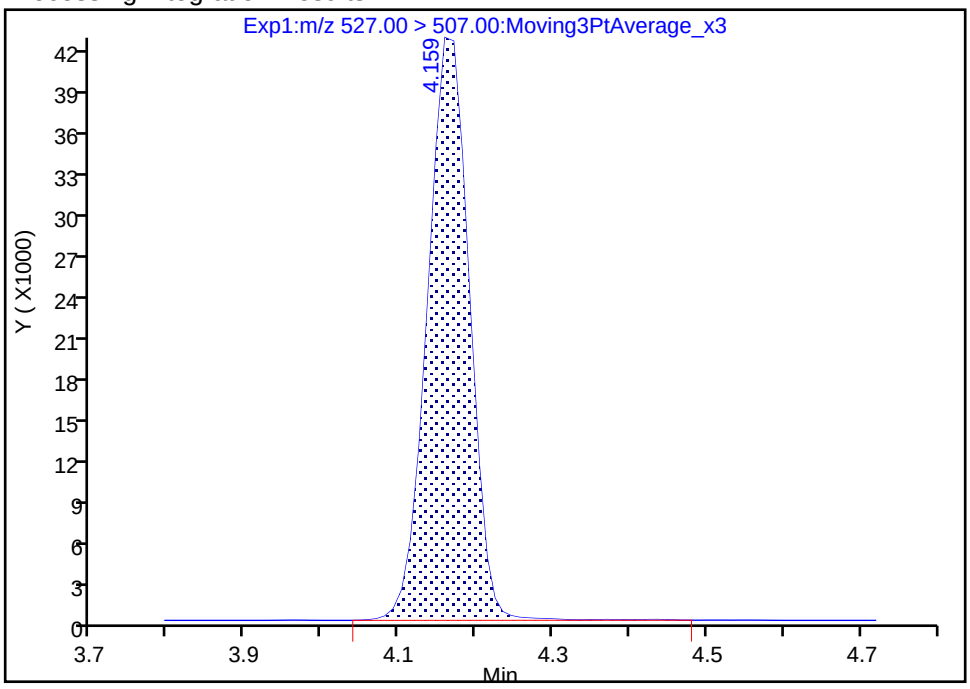
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Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

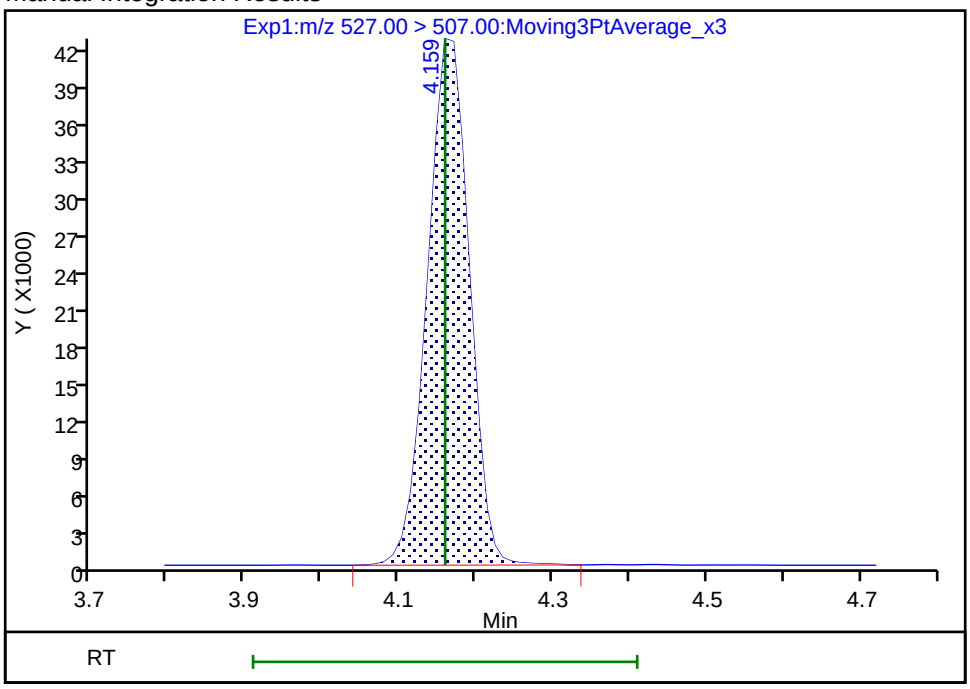
Processing Integration Results

RT: 4.16
Area: 161263
Amount: 2.227499
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 160871
Amount: 2.222084
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:07:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

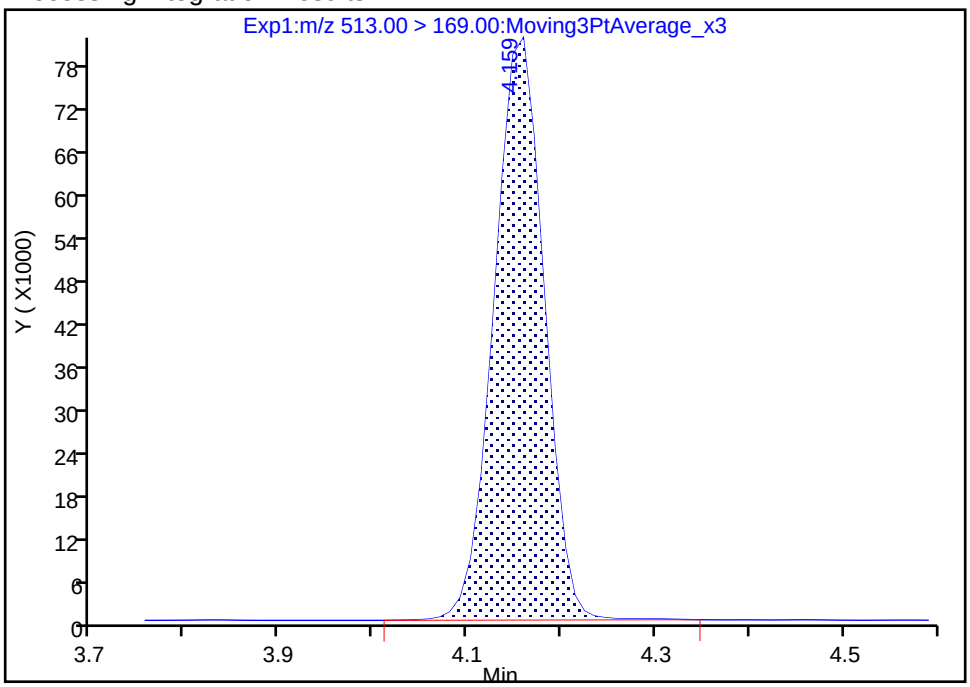
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Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

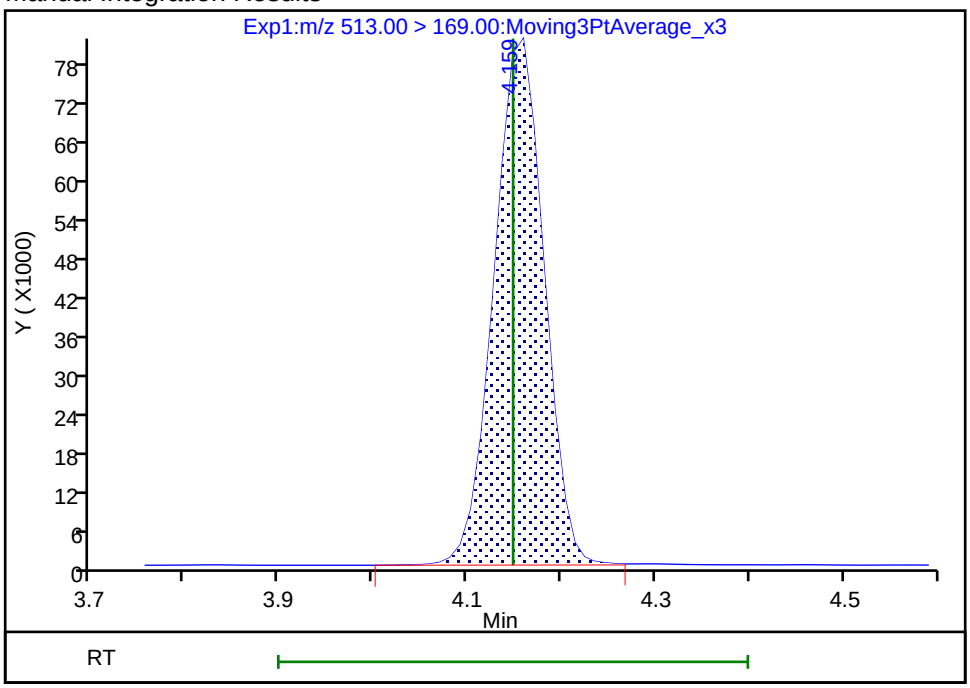
Processing Integration Results

RT: 4.16
Area: 301206
Amount: 2.391438
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 300986
Amount: 2.391438
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:07:29

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

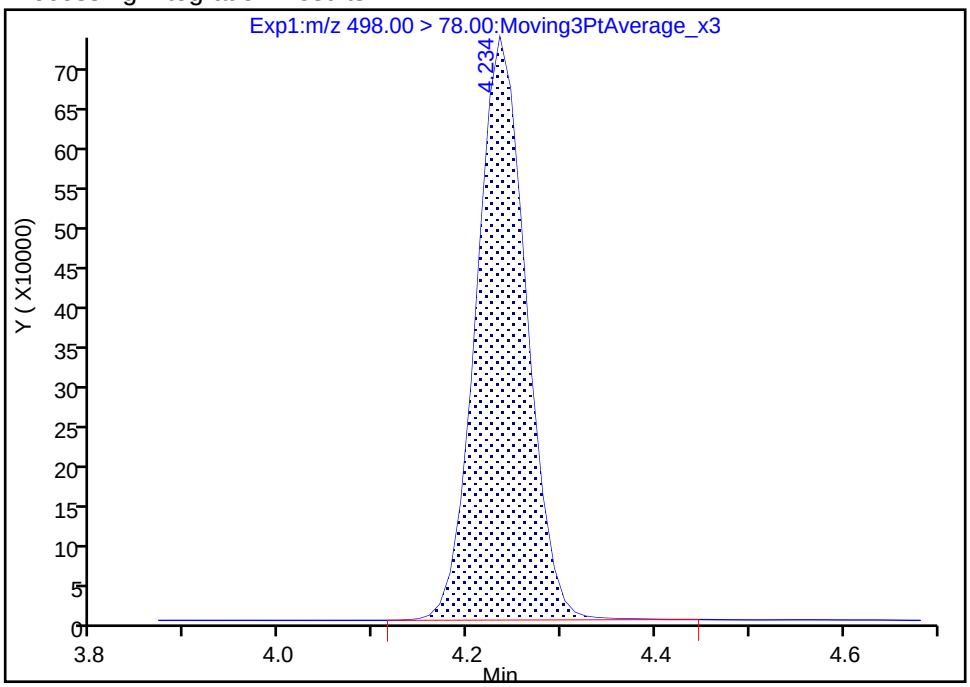
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Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

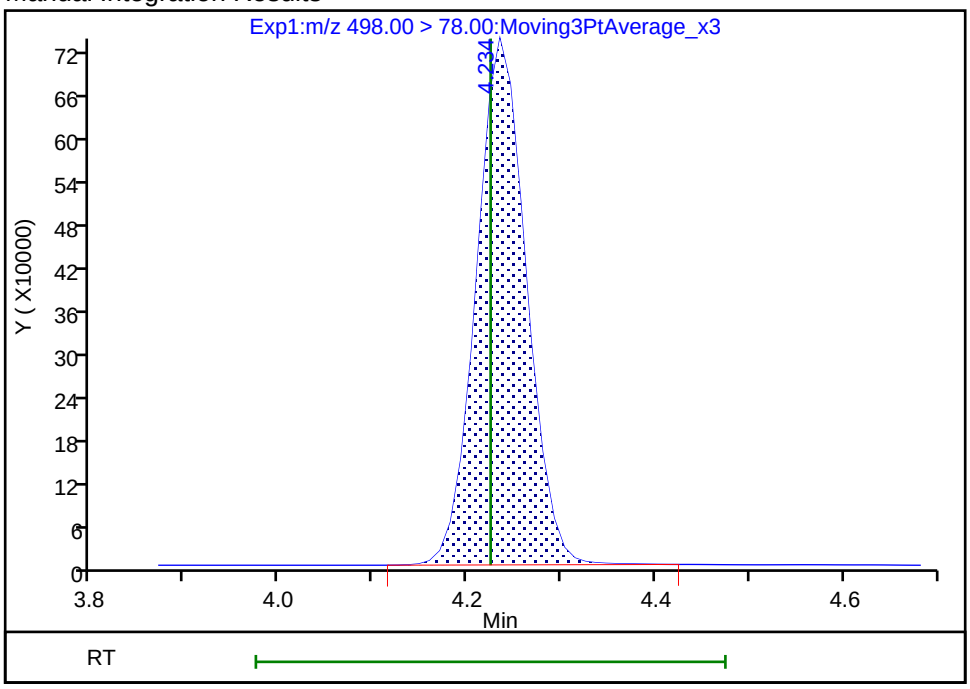
Processing Integration Results

RT: 4.23
Area: 2709938
Amount: 2.481799
Amount Units: ng/ml



Manual Integration Results

RT: 4.23
Area: 2708526
Amount: 2.480506
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:08:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

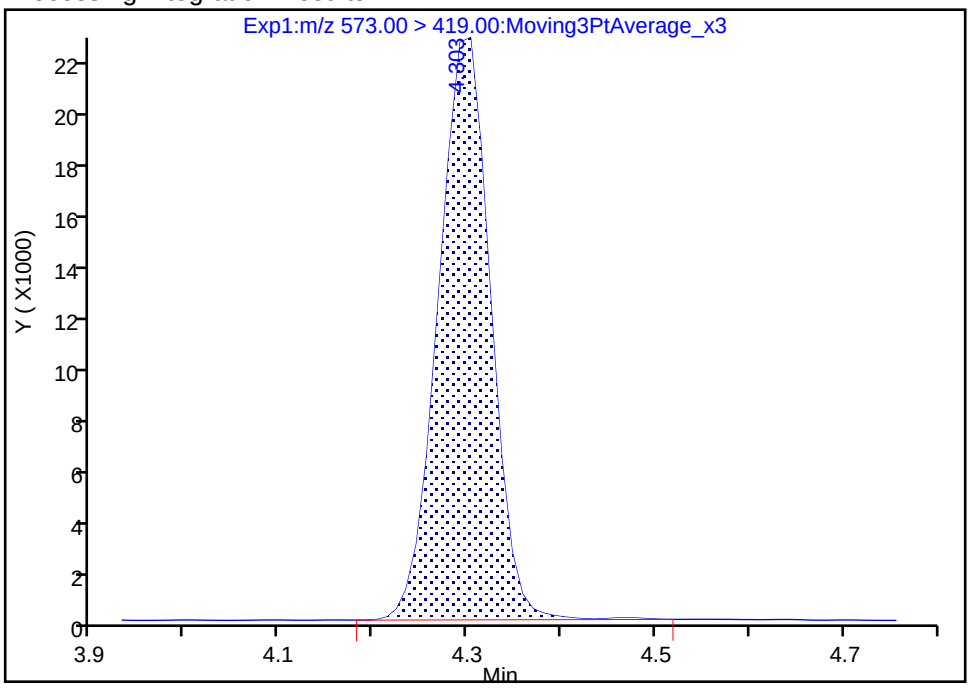
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Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

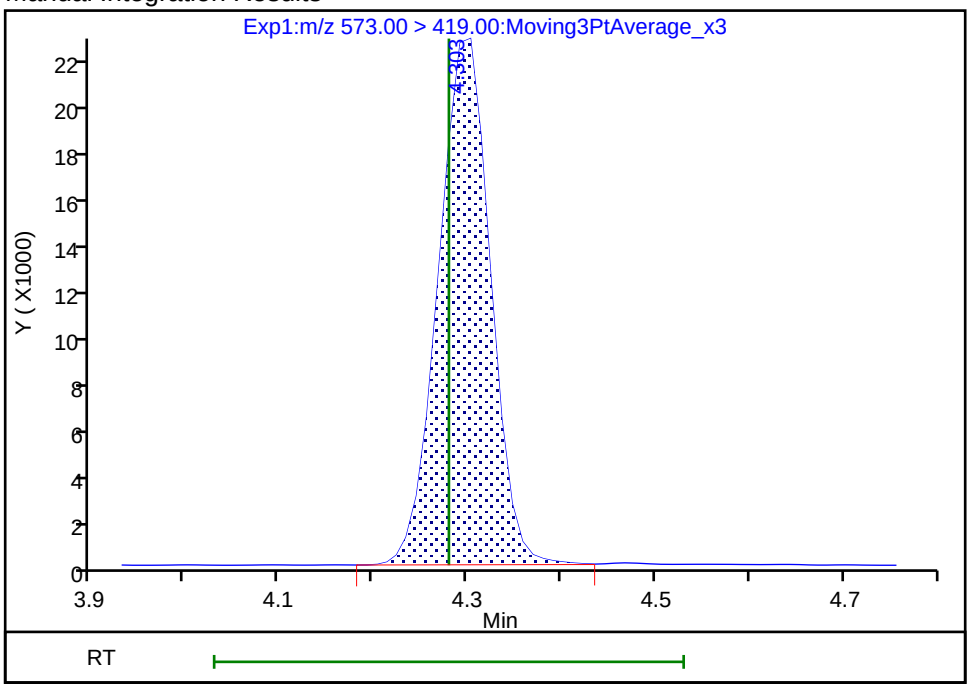
Processing Integration Results

RT: 4.30
Area: 87966
Amount: 1.129237
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 87788
Amount: 1.126952
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 07:54:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

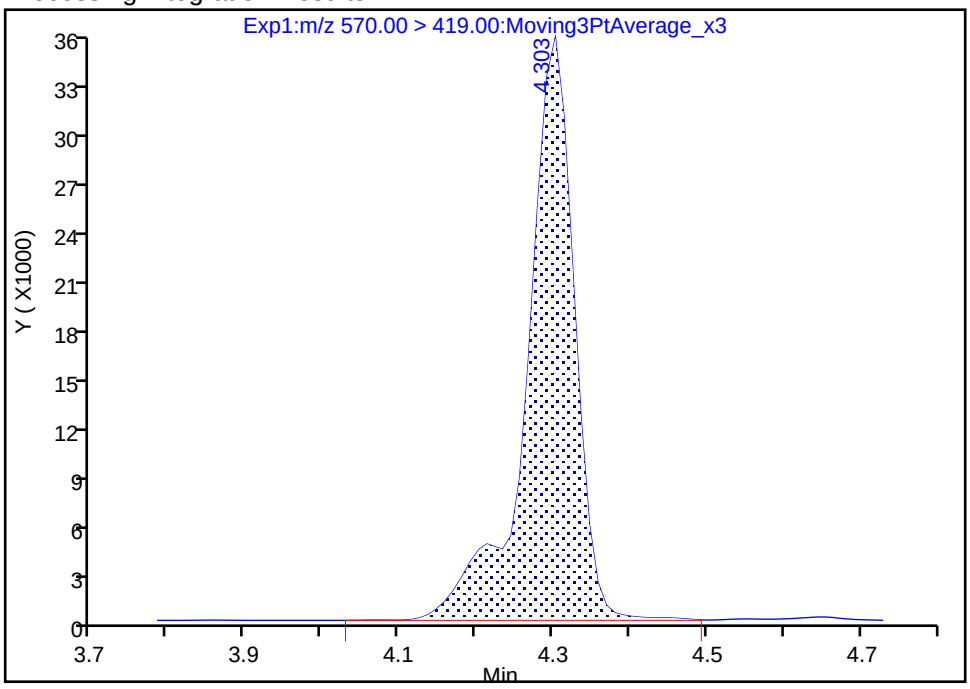
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Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

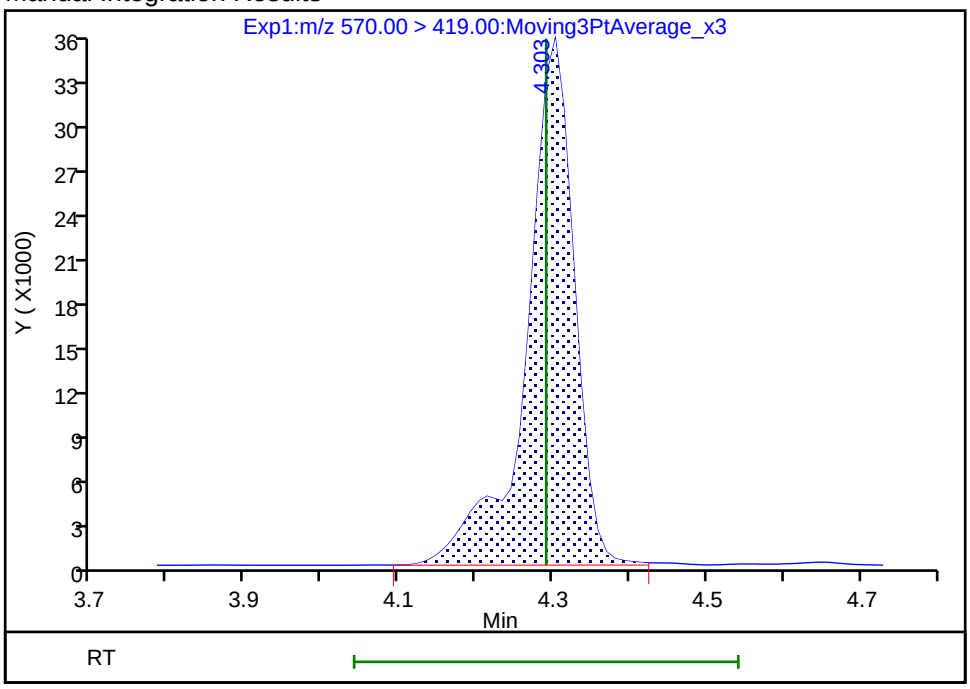
Processing Integration Results

RT: 4.30
Area: 152671
Amount: 2.615047
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 152045
Amount: 2.604325
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:08:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

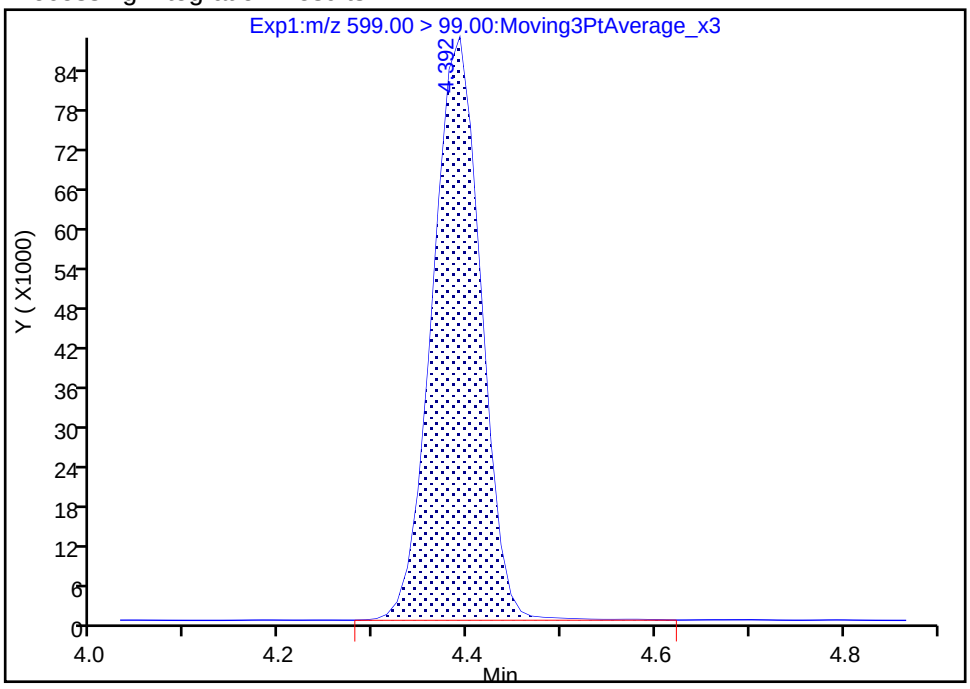
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Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

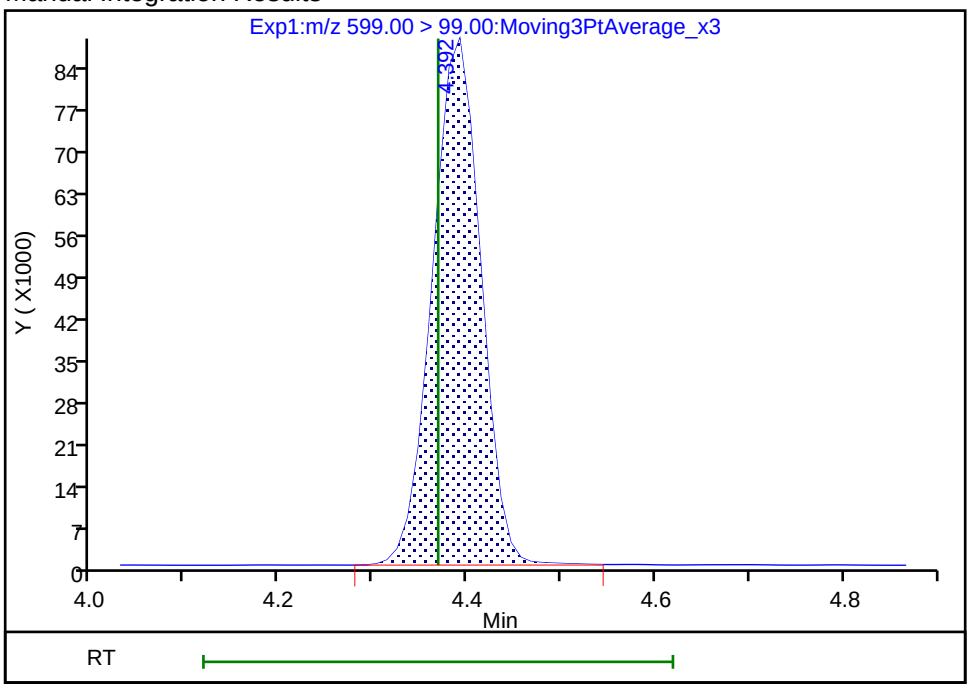
Processing Integration Results

RT: 4.39
Area: 318774
Amount: 2.315746
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 318207
Amount: 2.321650
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:08:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

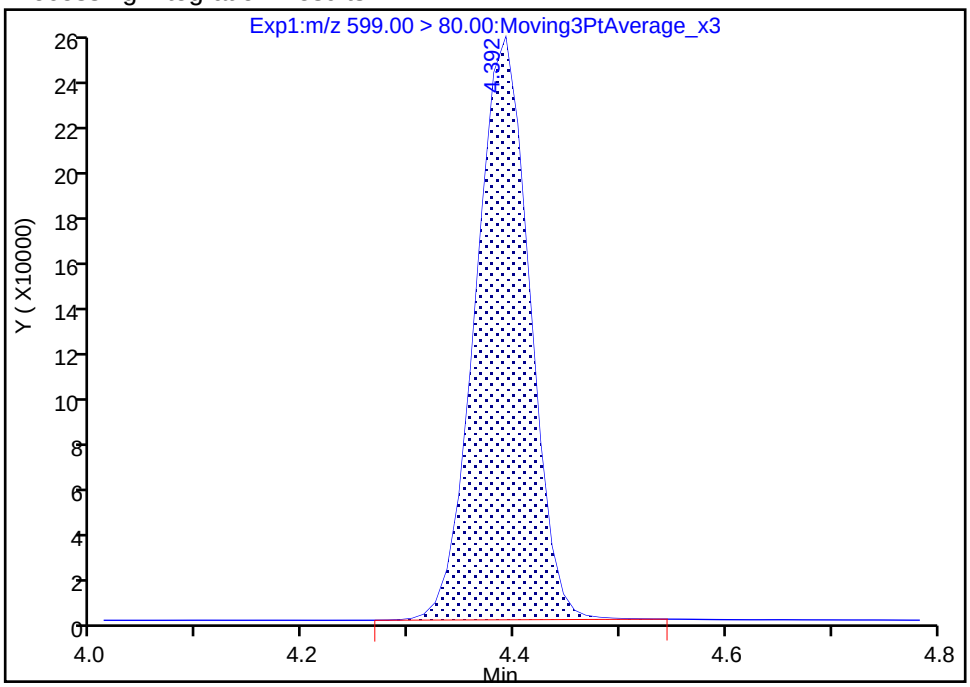
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Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

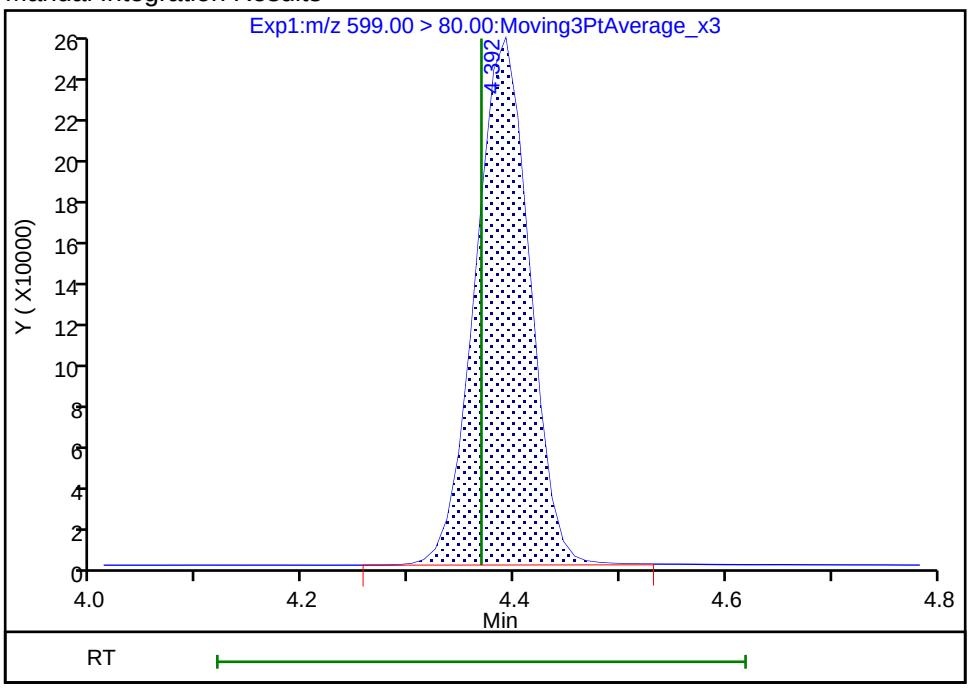
Processing Integration Results

RT: 4.39
Area: 919401
Amount: 2.315746
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 921745
Amount: 2.321650
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:09:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

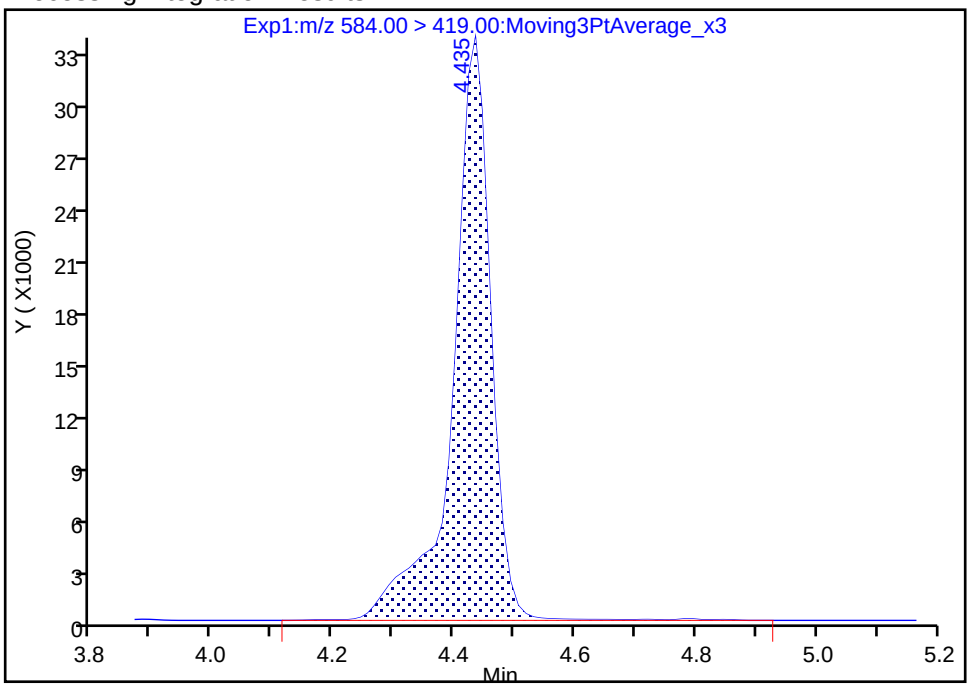
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Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

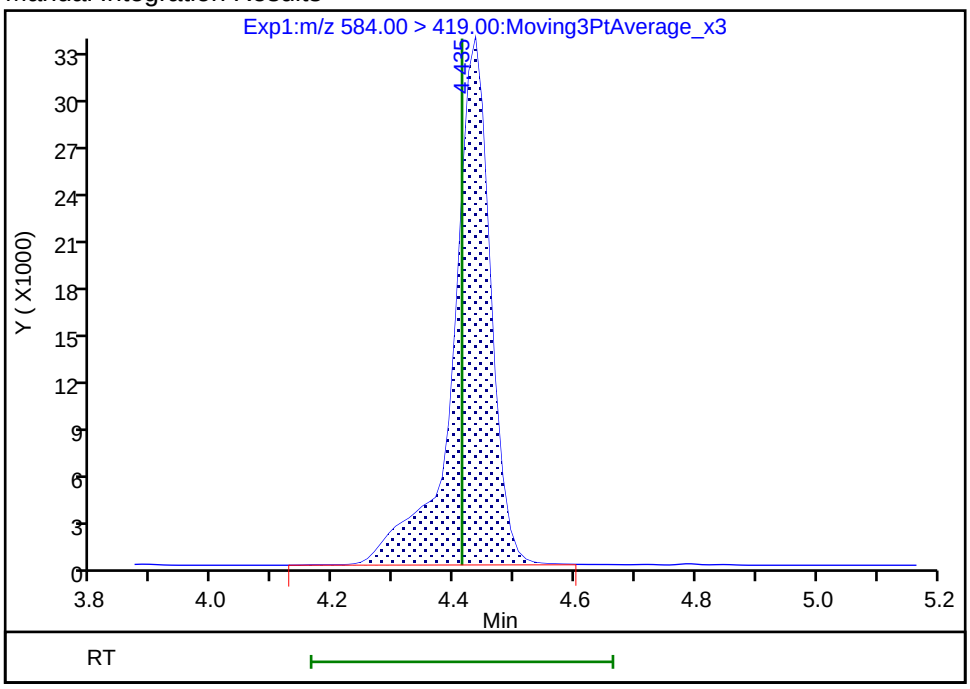
Processing Integration Results

RT: 4.44
Area: 147122
Amount: 2.471182
Amount Units: ng/ml



Manual Integration Results

RT: 4.44
Area: 145981
Amount: 2.452016
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:09:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

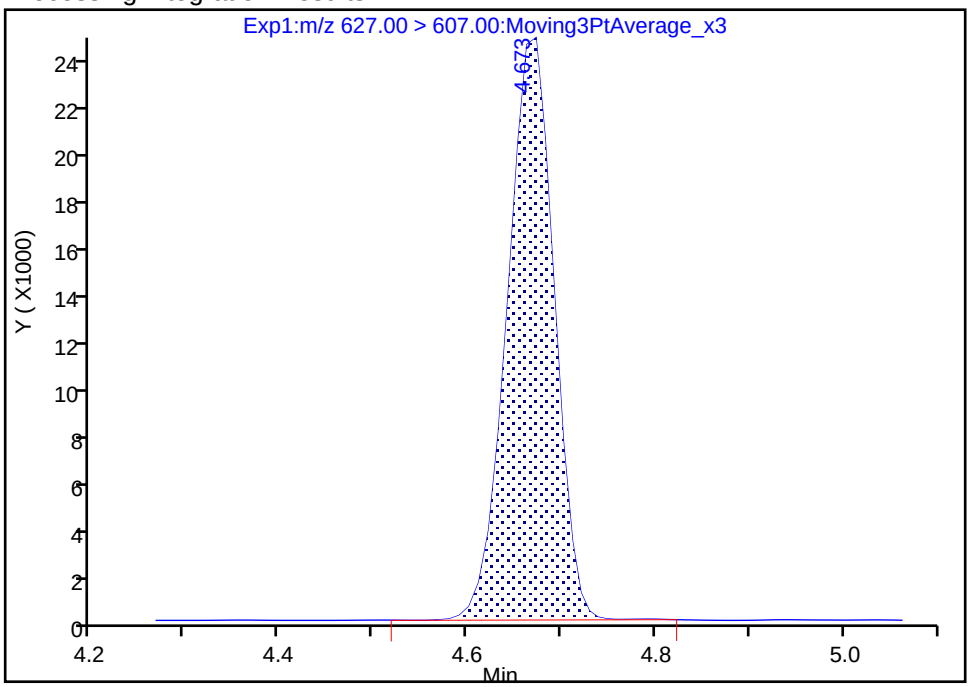
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Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

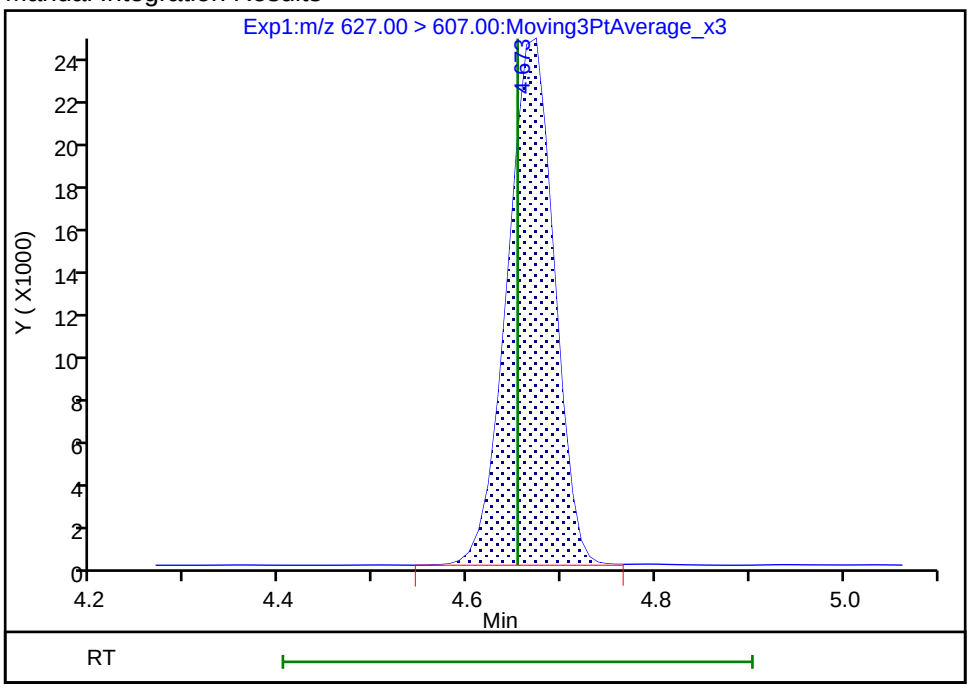
Processing Integration Results

RT: 4.67
Area: 85095
Amount: 2.322129
Amount Units: ng/ml



Manual Integration Results

RT: 4.67
Area: 85183
Amount: 2.324530
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:09:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

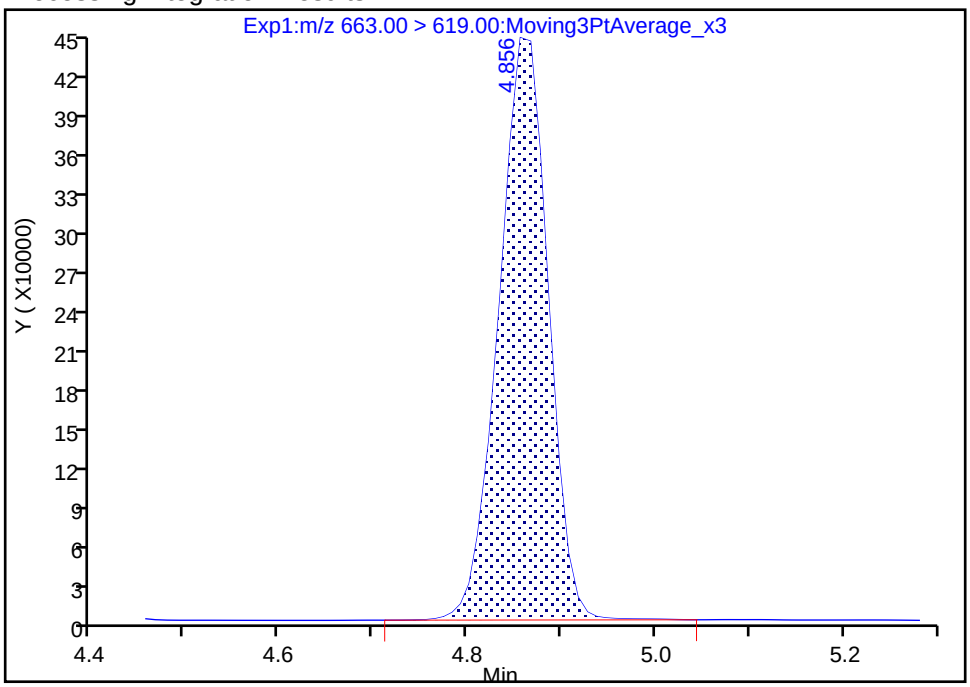
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d				
Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

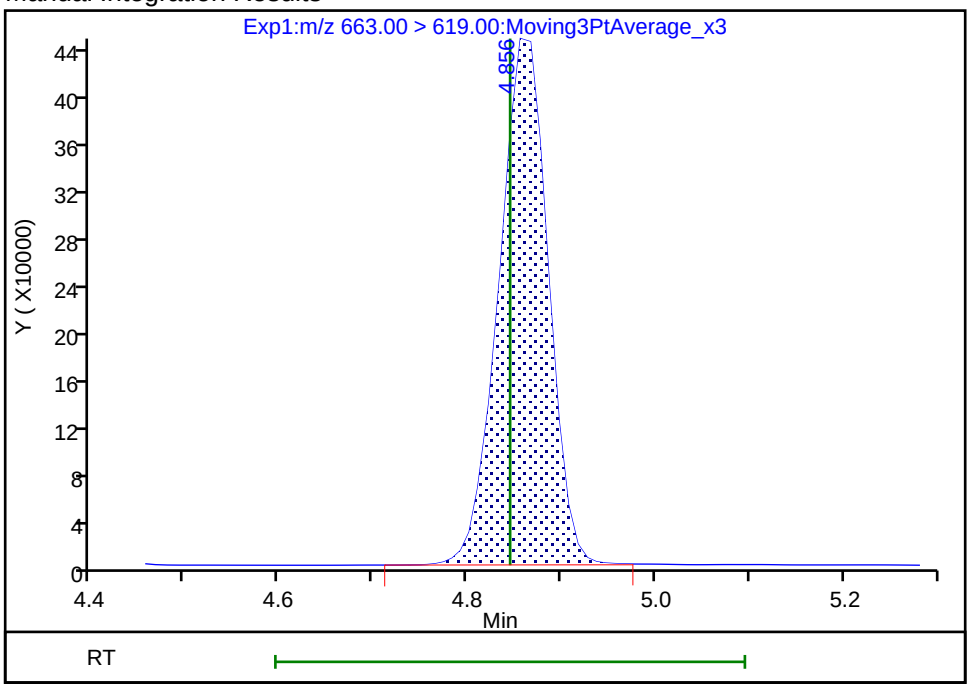
Processing Integration Results

RT: 4.86
Area: 1606182
Amount: 2.250714
Amount Units: ng/ml



Manual Integration Results

RT: 4.86
Area: 1604742
Amount: 2.248696
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:10:06

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

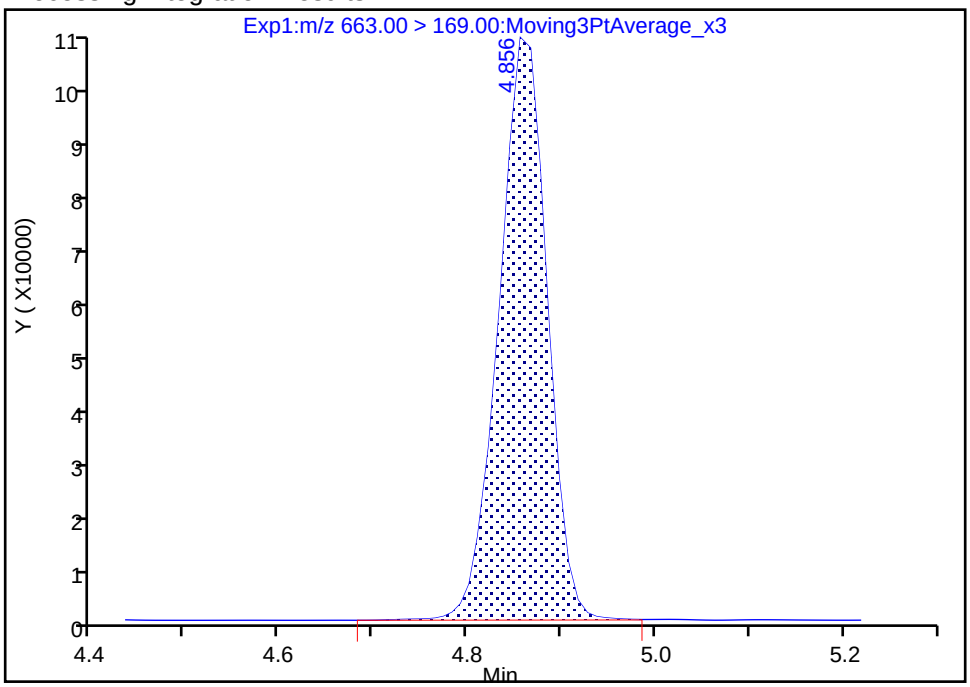
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d				
Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

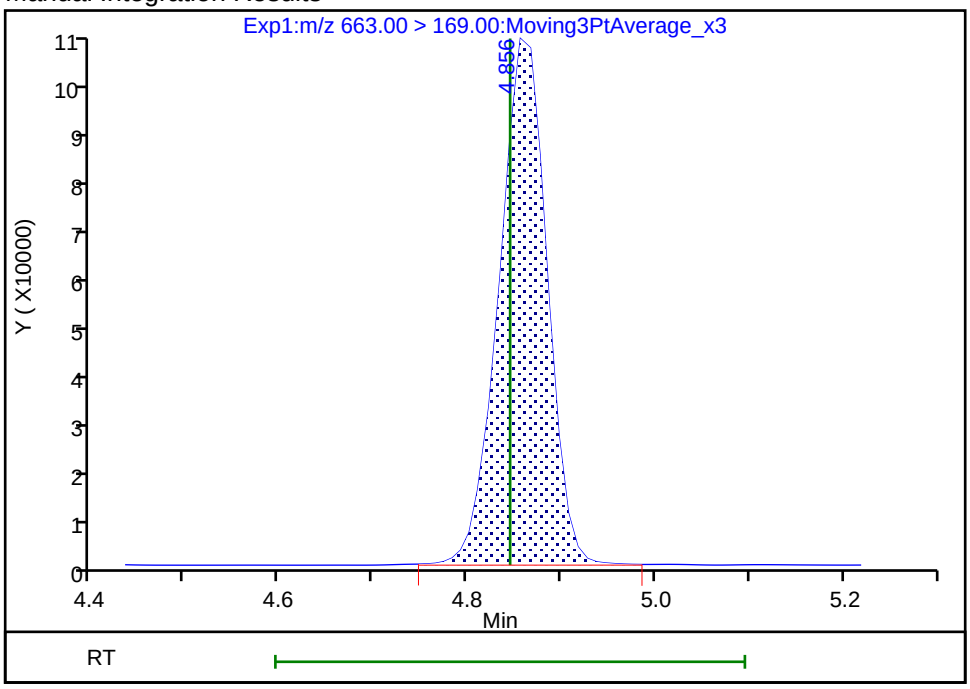
Processing Integration Results

RT: 4.86
Area: 383181
Amount: 2.250714
Amount Units: ng/ml



Manual Integration Results

RT: 4.86
Area: 383297
Amount: 2.248696
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:10:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

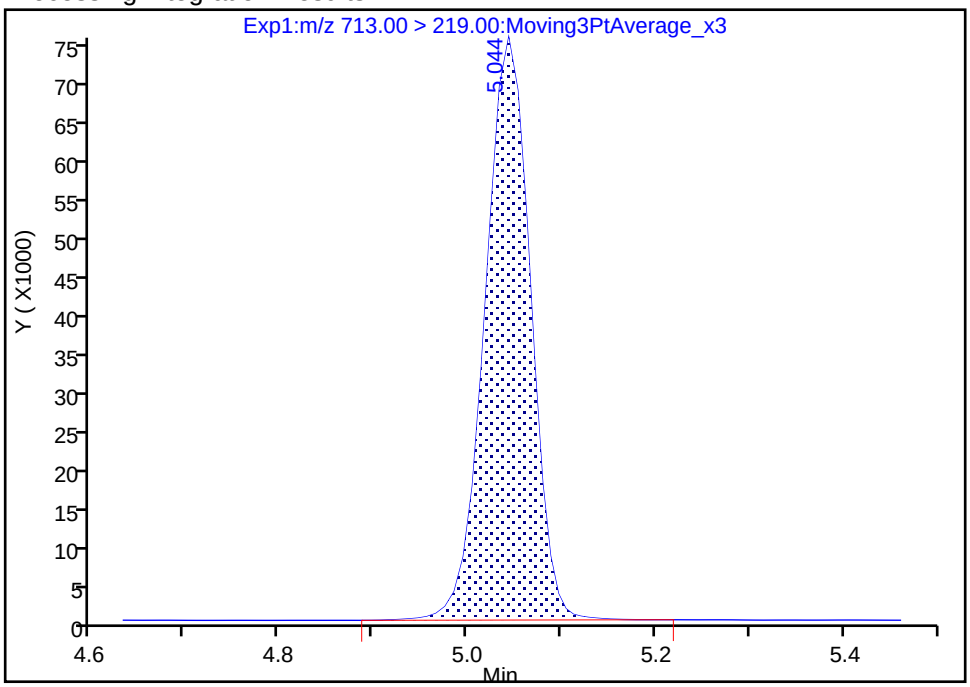
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d
Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

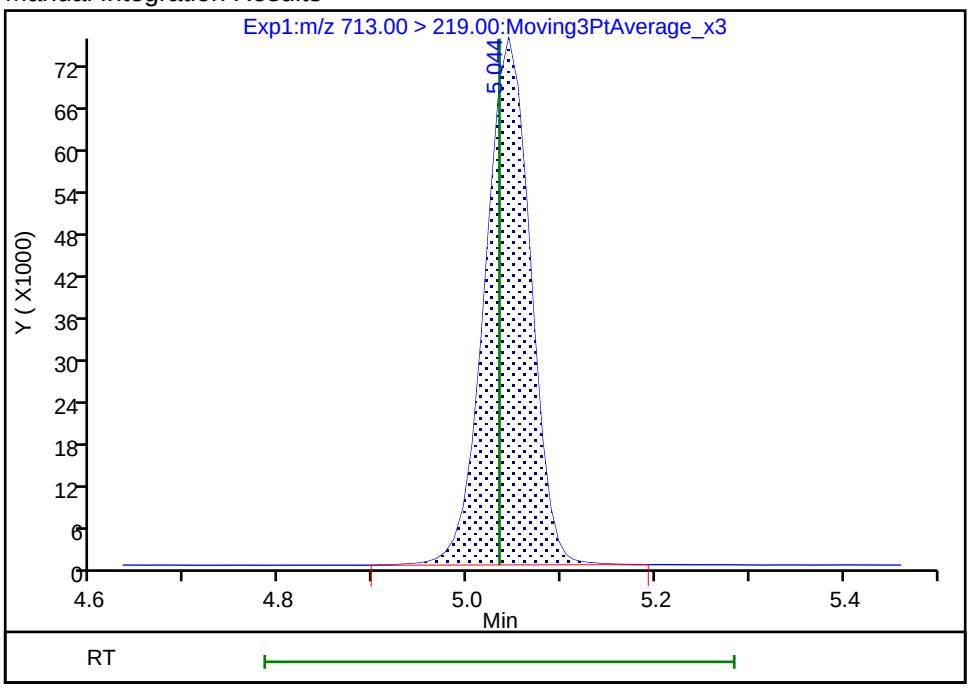
Processing Integration Results

RT: 5.04
Area: 253952
Amount: 2.564488
Amount Units: ng/ml



Manual Integration Results

RT: 5.04
Area: 253860
Amount: 2.564488
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:10:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

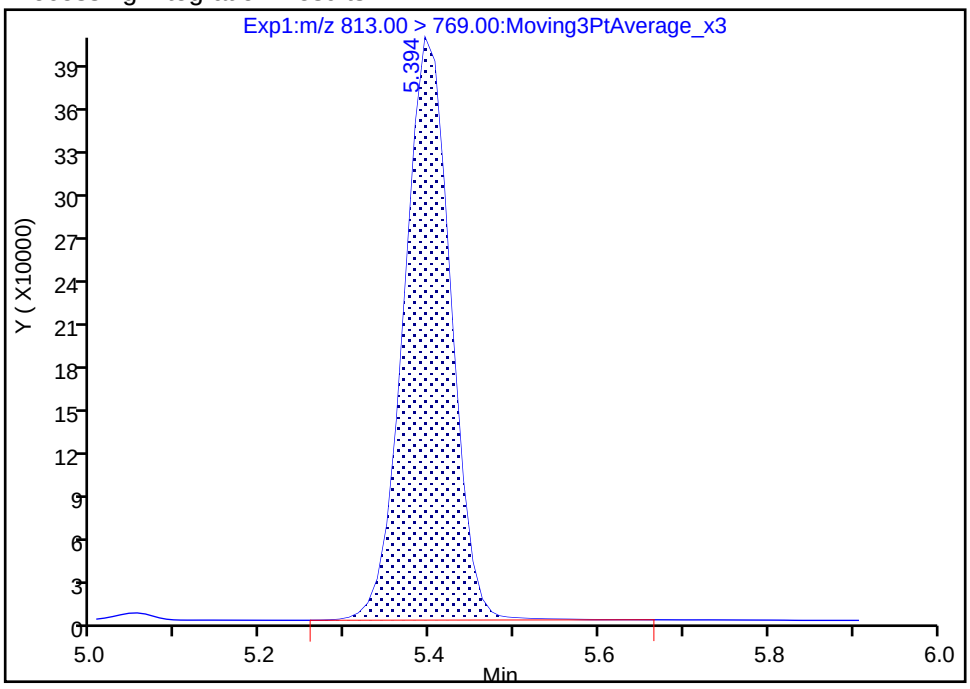
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d
Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 1

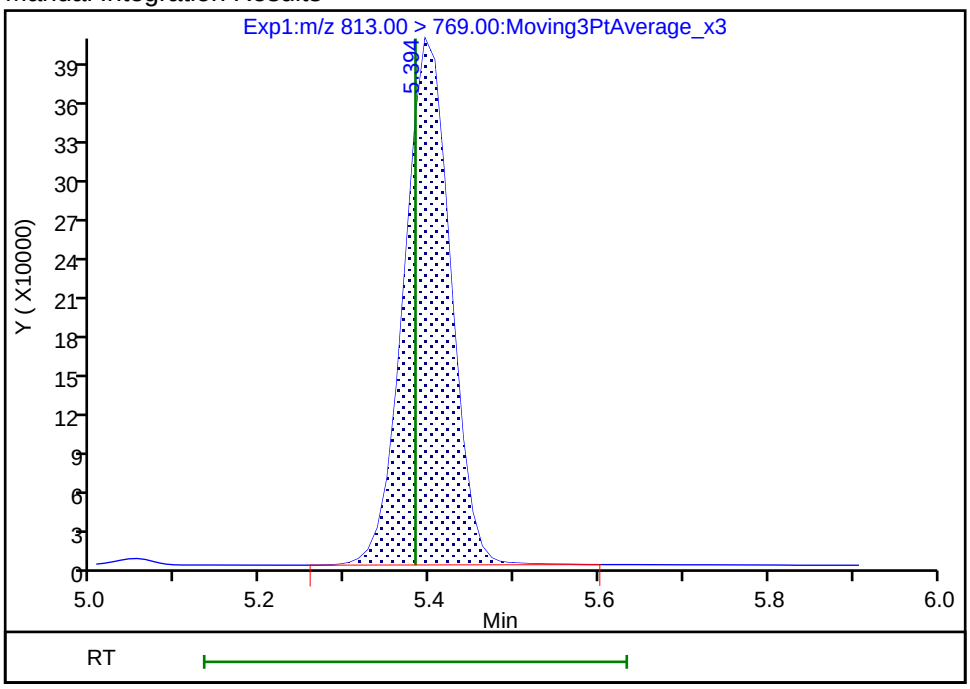
Processing Integration Results

RT: 5.39
Area: 1541161
Amount: 2.639082
Amount Units: ng/ml



Manual Integration Results

RT: 5.39
Area: 1539573
Amount: 2.636352
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:10:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

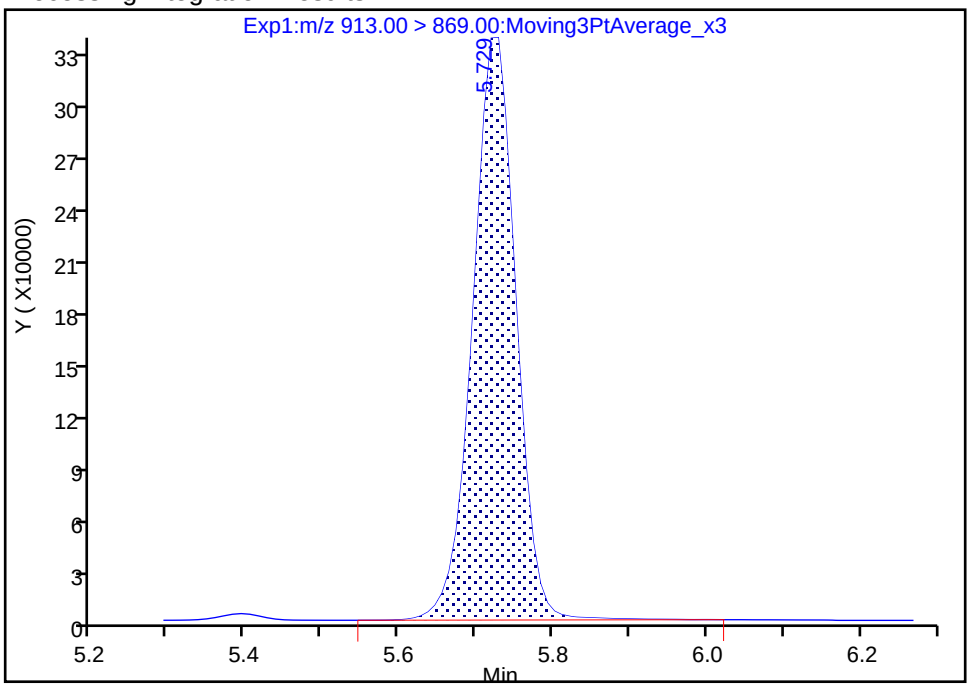
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d
Injection Date: 11-Aug-2021 14:25:00 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

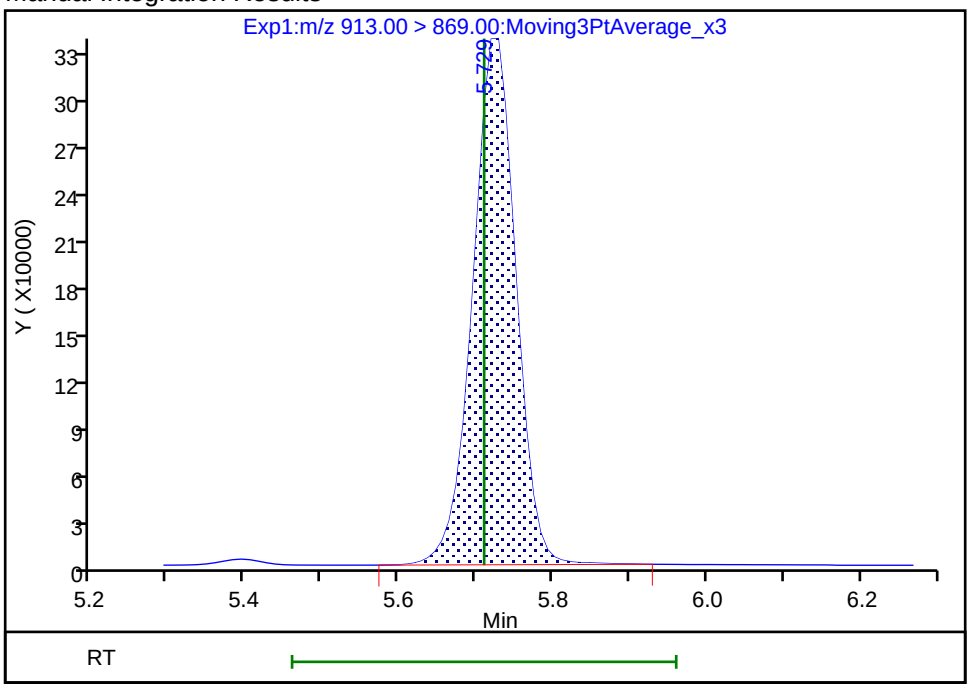
Processing Integration Results

RT: 5.73
Area: 1321561
Amount: 2.508288
Amount Units: ng/ml



Manual Integration Results

RT: 5.73
Area: 1317823
Amount: 2.501194
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:11:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

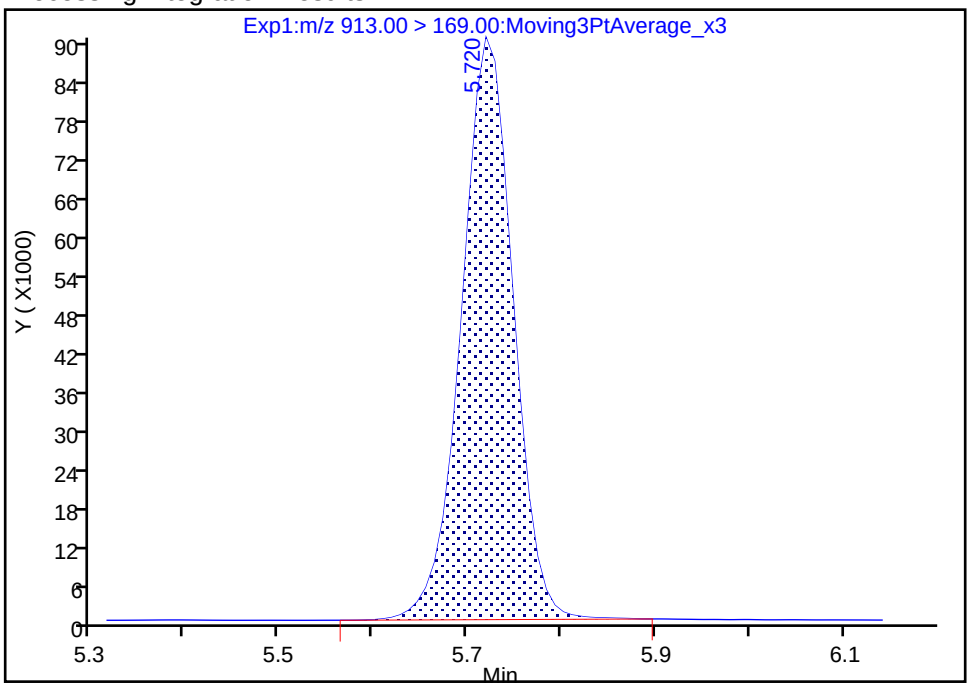
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A13.d				
Injection Date:	11-Aug-2021 14:25:00	Instrument ID:	LC812		
Lims ID:	CCV L5				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	10	Worklist Smp#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

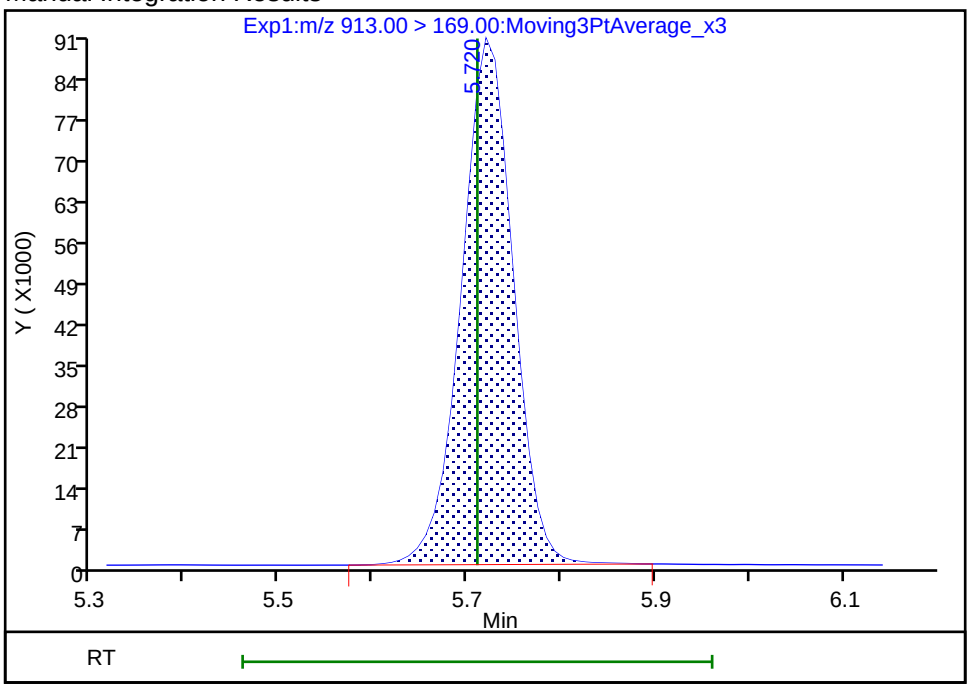
Processing Integration Results

RT: 5.72
Area: 346274
Amount: 2.508288
Amount Units: ng/ml



Manual Integration Results

RT: 5.72
Area: 346248
Amount: 2.501194
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:11:31

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCV 200-170086/24 Calibration Date: 08/11/2021 15:56

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210811A24.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9638	0.9637		1.00	1.00	-0.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.035	1.064		1.03	1.00	2.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.080	1.075		0.879	0.884	-0.5	40.0
1H,1H,2H,2H-Perfluorohexane sulfonic acid (4:2 FTS)	AveID	1.928	1.926		0.933	0.934	-0.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.006	1.042		1.04	1.00	3.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	1.229	1.270		0.969	0.938	3.3	50.0
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	AveID	1.654	1.545		0.934	1.00	-6.6	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.034	1.106		1.07	1.00	7.0	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.157	1.133		0.891	0.910	-2.0	40.0
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	AveID	3.522	3.413		0.913	0.942	-3.1	50.0
6:2 FTS	AveID	1.036	1.025		0.938	0.948	-1.1	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.245	1.279		0.978	0.952	2.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.052	1.097		1.04	1.00	4.3	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.121	1.068		0.885	0.928	-4.7	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9669	1.023		1.06	1.00	5.8	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3O	AveID	1.225	1.156		0.879	0.932	-5.7	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8298	0.8427		0.975	0.960	1.6	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.064	1.083		1.02	1.00	1.7	40.0
8:2 FTS	AveID	0.4982	0.5700		1.10	0.958	14.4	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9781	1.016		1.04	1.00	3.8	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8313	0.9084		1.09	1.00	9.3	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6334	0.6132		0.933	0.964	-3.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9674	1.111		1.15	1.00	14.8	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.8472	0.8881		1.05	1.00	4.8	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF	AveID	1.012	1.040		0.968	0.942	2.8	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.009	0.9906		0.981	1.00	-1.9	40.0
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	AveID	0.2522	0.2975		1.14	0.964	17.9	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2155	0.2051		0.921	0.968	-4.8	50.0

FORM VII 537 (modified)

FORM VII
PFAS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Lab Sample ID: CCV 200-170086/24 Calibration Date: 08/11/2021 15:56

Instrument ID: LC812 Calib Start Date: 07/08/2021 15:19

GC Column: C-18 ID: 4.60(mm) Calib End Date: 07/08/2021 16:00

Lab File ID: PA210811A24.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorotridecanoic acid (PFTriA)	AveID	0.8702	0.8387		0.964	1.00	-3.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.1719	0.1903		1.11	1.00	10.7	40.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.001		1.06	1.00	6.0	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8466	0.8508		1.00	1.00	0.5	50.0
13C4 PFBA	Ave	1.144	1.068		1.17	1.25	-6.7	50.0
13C5 PFPeA	Ave	0.8660	0.8112		1.17	1.25	-6.3	50.0
13C3 PFBS	Ave	0.9175	0.9327		1.18	1.16	1.7	50.0
M2-4:2 FTS	Ave	0.0758	0.0738		1.14	1.17	-2.6	50.0
13C2 PFHxA	Ave	0.9540	0.9177		1.20	1.25	-3.8	50.0
13C3 HFPO-DA	Ave	0.1030	0.1118		1.36	1.25	8.5	50.0
13C4 PFHpA	Ave	0.9564	0.8940		1.17	1.25	-6.5	50.0
18O2 PFHxS	Ave	0.7289	0.7050		1.14	1.18	-3.3	50.0
M2-6:2 FTS	Ave	0.1011	0.1081		1.27	1.19	6.9	50.0
13C4 PFOA	Ave	0.9874	0.9265		1.17	1.25	-6.2	50.0
13C4 PFOS	Ave	0.5319	0.5212		1.17	1.20	-2.0	50.0
13C5 PFNA	Ave	0.9379	0.8689		1.16	1.25	-7.4	50.0
13C2 PFDA	Ave	0.8507	0.8420		1.24	1.25	-1.0	50.0
M2-8:2 FTS	Ave	0.1204	0.1297		1.29	1.20	7.8	50.0
13C8 FOSA	Ave	0.9381	0.9112		1.21	1.25	-2.9	50.0
d3-NMeFOSAA	Ave	0.0626	0.0580		1.16	1.25	-7.3	50.0
13C2 PFUnA	Ave	0.6747	0.6127		1.14	1.25	-9.2	50.0
d5-NEtFOSAA	Ave	0.0651	0.0629		1.21	1.25	-3.4	50.0
13C2 PFDoA	Ave	0.6975	0.7184		1.29	1.25	3.0	50.0
13C2 PFTeDA	Ave	0.5468	0.5276		1.21	1.25	-3.5	50.0
13C2 PFHxDA	Ave	0.5565	0.6150		1.38	1.25	10.5	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 11-Aug-2021 15:56:05 ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: 200-0047128-024 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812
Sublist: chrom-PFC_LC812*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:33:05 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 08:20:48
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	2.117	2.082	0.035	0.600	1698095	1.17		93.3	8837	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.117	2.082	0.035	1.000	1309112	1.00		100	192	
D 3 13C5 PFPeA										
267.90 > 223.00	2.452	2.413	0.039	0.695	1289664	1.17		93.7	2895	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.452	2.413	0.039	1.000	1097461	1.03		103	84.7	
D 47 13C3 PFBS										M
301.90 > 80.00	2.465	2.426	0.039	0.699	1379097	1.18		102	265605	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.465	2.426	0.039	1.000	1126876	0.8794	Target=2.20	99.5	1224	
298.90 > 99.00	2.465	2.426	0.039	1.000	513058		2.20(1.10-3.30)		378	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.770	2.734	0.036	1.000	168815	0.9328		99.9	1343	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.770	2.734	0.036	0.785	109581	1.14		97.4	158	M
D 7 13C2 PFHxA										M
315.00 > 270.00	2.807	2.782	0.025	0.796	1458912	1.20		96.2	1687	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.807	2.782	0.025	1.000	1216416	1.04	Target=12.93	104	289	M
313.00 > 119.00	2.807	2.782	0.025	1.000	92362		13.17(6.46-19.39)		199	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.819	2.782	0.037	0.888	1068462	0.9694	Target=3.71	103	2217	M
349.00 > 99.00	2.807	2.782	0.025	0.884	299571		3.57(1.85-5.56)		515	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.921	2.892	0.029	0.828	177718	1.36		108	1437	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.911	2.892	0.019	0.997	219594	0.9340		93.4	78.9	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.175	3.154	0.021	0.900	1060371	1.14		96.7	2147	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.175	3.154	0.021	1.000	924819	0.8913	Target=4.48	98.0	1248	M
399.00 > 99.00	3.175	3.154	0.021	1.000	210676		4.39(2.24-6.72)		256	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.175	3.154	0.021	1.000	1258013	1.07	Target=3.68	107	514	
363.00 > 169.00	3.175	3.154	0.021	1.000	336759		3.74(1.84-5.53)		893	
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1421261	1.17		93.5	4441	
77 DONA										M
377.00 > 251.00	3.208	3.196	0.012	0.836	2131033	0.9128	Target=2.47	96.9	2599	M
377.00 > 85.00	3.208	3.196	0.012	0.836	873658		2.44(1.24-3.71)		1288	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.519	3.510	0.009	0.917	807027	0.9777	Target=6.56	103	1819	
449.00 > 99.00	3.519	3.510	0.009	0.917	121531		6.64(3.28-9.84)		532	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.519	3.510	0.009	0.997	163264	1.27		107	571	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.519	3.510	0.009	1.000	133629	0.9378		98.9	761	M
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1472941	1.17		93.8	3394	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1589822	1.25			2546	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	1293236	1.04	Target=2.67	104	544	M
413.00 > 169.00	3.528	3.519	0.009	1.000	502513		2.57(1.33-4.00)		1352	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.087	792091	1.17		98.0	2880	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.847	3.836	0.011	1.003	657106	0.8846	Target=6.69	95.3	622	M
499.00 > 99.00	3.836	3.836	0.0	1.000	101929		6.45(3.34-10.03)		479	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.858	3.858	0.0	1.094	1381382	1.16		92.6	2472	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.858	3.858	0.0	1.000	1130274	1.06	Target=7.21	106	409	
463.00 > 169.00	3.858	3.858	0.0	1.000	164776		6.86(3.60-10.81)		1260	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	4.002	3.992	0.010	1.043	714158	0.8792		94.3	3695	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.126	4.115	0.011	1.076	536247	0.9749	Target=3.20	102	1573	
549.00 > 99.00	4.126	4.115	0.011	1.076	164992		3.25(1.60-4.80)		158	M
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.148	0.012	1.179	1338675	1.24		99.0	4145	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.160	4.148	0.012	1.000	1159811	1.02	Target=8.42	102	1001	
513.00 > 169.00	4.160	4.148	0.012	1.000	140687		8.24(4.21-12.63)		886	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.171	4.160	0.011	1.000	90102	1.10		114	988	
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.171	4.160	0.011	1.182	197596	1.29		108	796	M
D 21 13C8 FOSA										
506.00 > 78.00	4.235	4.224	0.011	1.200	1448610	1.21		97.1	2770	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.235	4.224	0.011	1.000	1176864	1.04		104	1652	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.302	4.280	0.022	1.219	92253	1.16		92.7	301	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.302	4.291	0.011	1.000	67039	1.09		109	304	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.391	4.369	0.022	1.145	391838	0.9333	Target=2.66	96.8	1831	
599.00 > 99.00	4.391	4.369	0.022	1.145	141794		2.76(1.33-3.99)		1295	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.402	0.022	1.254	974149	1.14		90.8	3419	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.402	0.022	1.000	865448	1.15	Target=7.70	115	168	
563.00 > 169.00	4.424	4.402	0.022	1.000	103160		8.39(3.85-11.56)		1234	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.424	4.413	0.011	1.254	100063	1.21		96.6	916	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.434	4.413	0.021	1.002	71089	1.05		105	608	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.518	4.492	0.026	1.178	649443	0.9682		103	3077	
D 36 13C2 PFDoA										
615.00 > 570.00	4.653	4.632	0.021	1.319	1142075	1.29		103	3554	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.632	0.021	1.000	905111	0.9814	Target=6.31	98.1	330	
613.00 > 169.00	4.653	4.632	0.021	1.000	152684		5.93(3.15-9.46)		1530	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.673	4.653	0.020	1.120	47316	1.14		118	897	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.822	4.810	0.012	1.257	131617	0.9215	Target=0.45	95.2	1432	
699.00 > 99.00	4.822	4.810	0.012	1.257	278914		0.47(0.23-0.68)		1758	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.867	4.845	0.022	1.046	766293	0.9639	Target=4.61	96.4	266	
663.00 > 169.00	4.867	4.845	0.022	1.046	173301		4.42(2.31-6.92)		1800	M
D 43 13C2 PFTeDA										M
715.00 > 670.00	5.053	5.034	0.019	1.432	838788	1.21		96.5	2934	M
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.034	0.019	1.000	127686	1.11	Target=1.00	111	1643	
713.00 > 219.00	5.043	5.034	0.009	0.998	123878		1.03(0.50-1.51)		1479	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.405	5.383	0.022	1.532	977713	1.38		111	3207	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.405	5.383	0.022	1.000	782750	1.06	Target=4.32	106	431	
813.00 > 169.00	5.405	5.383	0.022	1.000	193795		4.04(2.16-6.48)		2192	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.728	5.710	0.018	1.060	665469	1.00	Target=3.72	100	455	
913.00 > 169.00	5.728	5.710	0.018	1.060	178216		3.73(1.86-5.58)		1072	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00024 Amount Added: 100.00 Units: uL

Report Date: 12-Aug-2021 12:33:06 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d

Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812

Lims ID: CCV L4

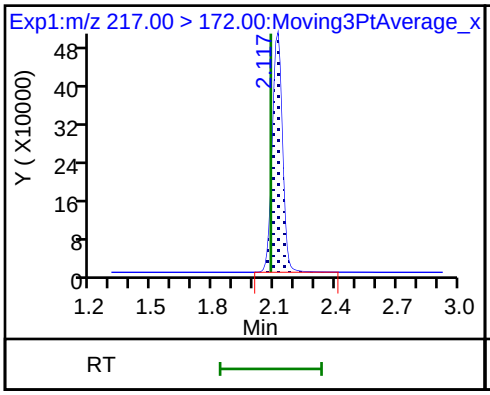
Client ID:

Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24

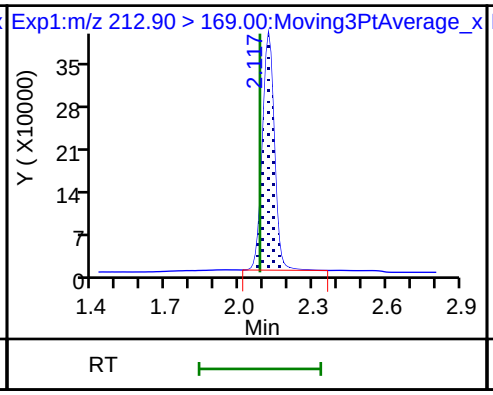
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

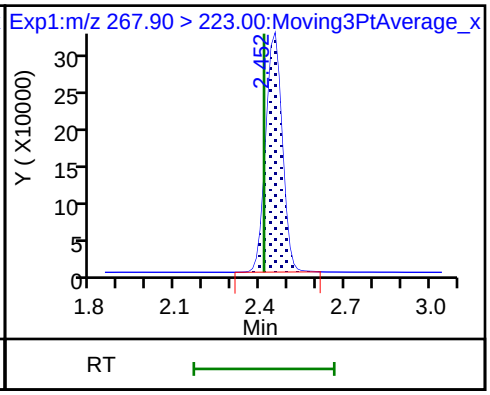
D 1 13C4 PFBA



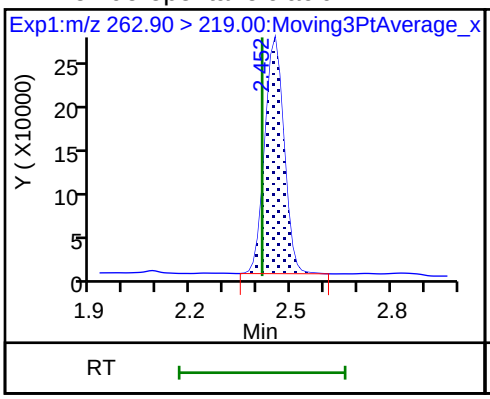
2 Perfluorobutanoic acid



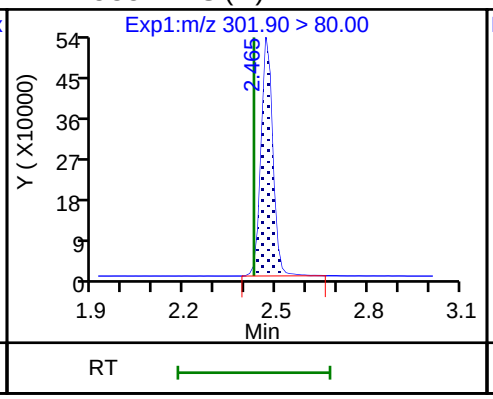
D 3 13C5 PFPeA



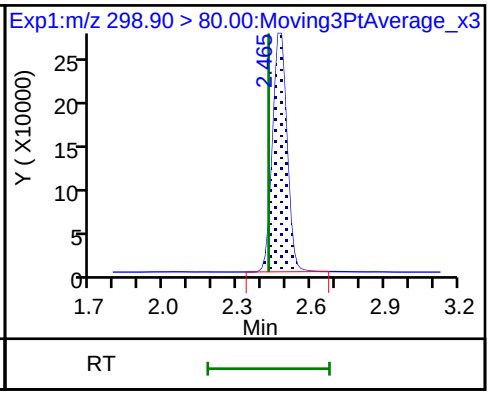
4 Perfluoropentanoic acid



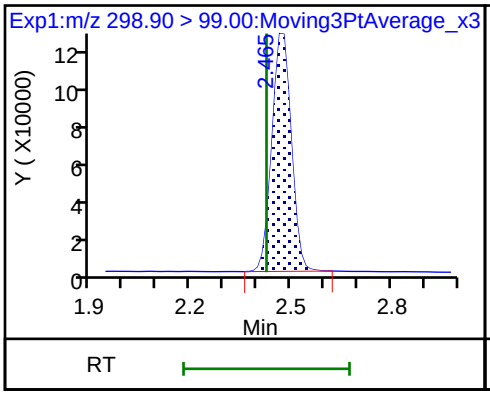
D 47 13C3 PFBS (M)



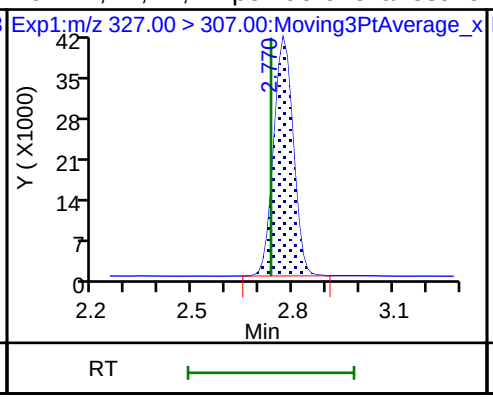
5 Perfluorobutanesulfonic acid



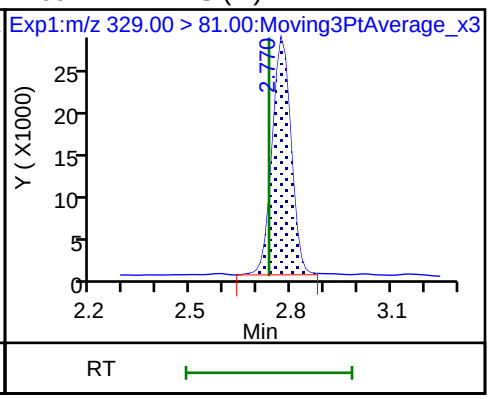
5 Perfluorobutanesulfonic acid



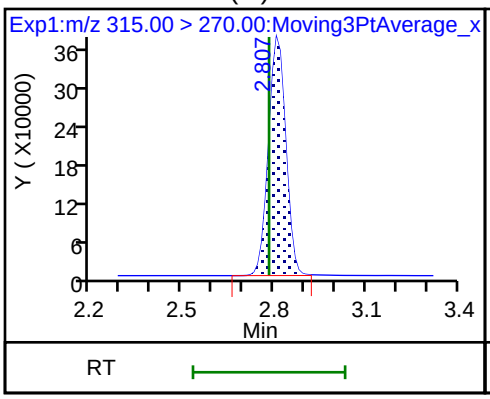
61 1H,1H,2H,2H-perfluorohexanesulfo



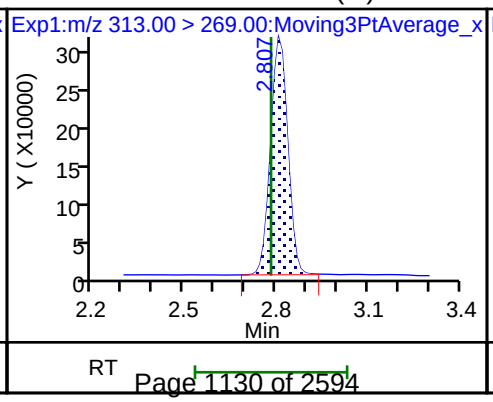
D 60 M2-4:2 FTS (M)



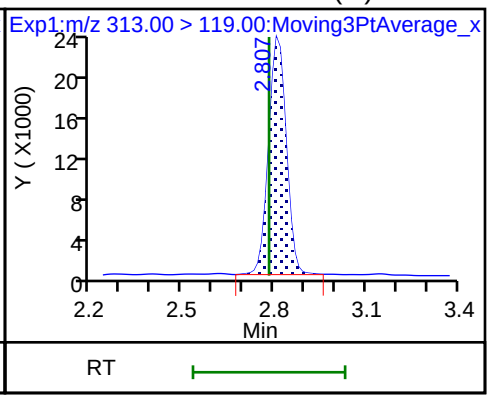
D 7 13C2 PFHxA (M)



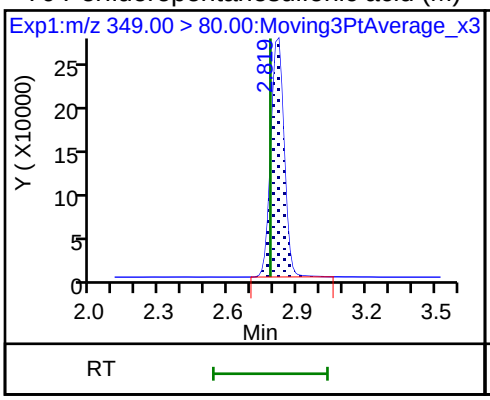
6 Perfluorohexanoic acid (M)



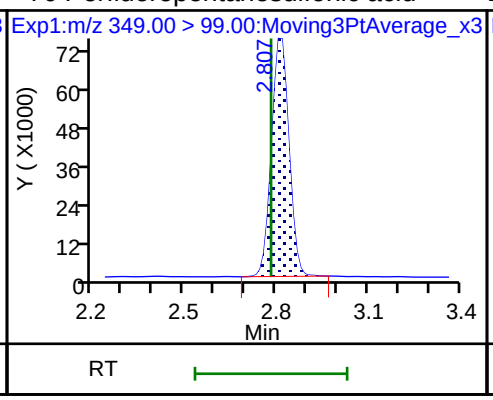
6 Perfluorohexanoic acid (M)



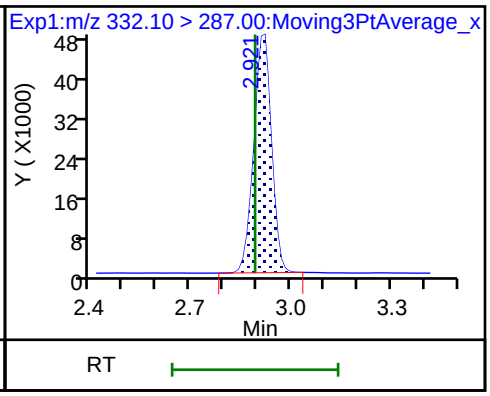
70 Perfluoropentanesulfonic acid (M)



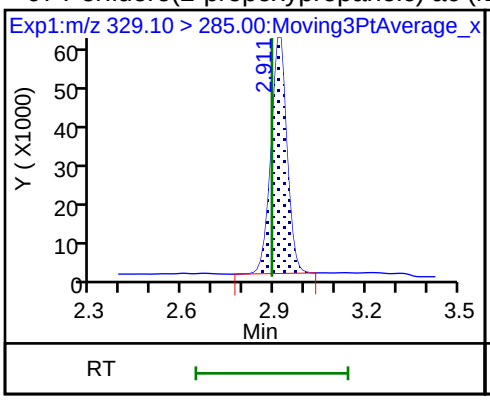
70 Perfluoropentanesulfonic acid



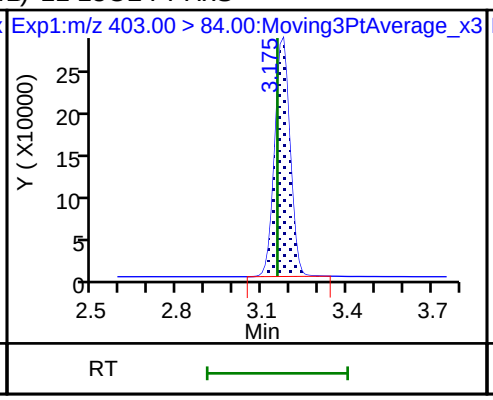
D 64 13C3 HFPO-DA



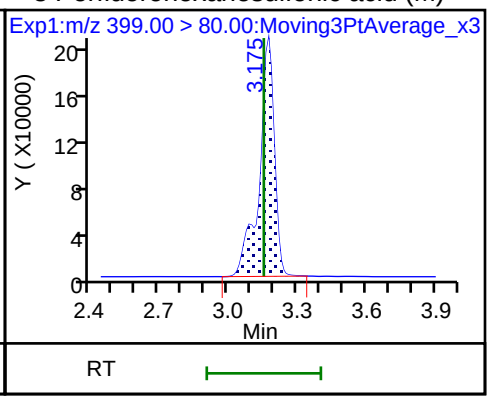
67 Perfluoro(2-propoxypropanoic) ac (M)



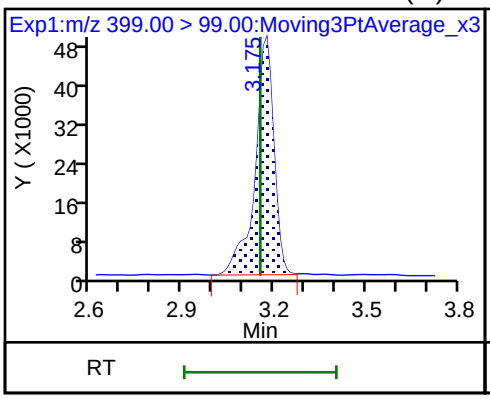
D 11 18O2 PFHxS



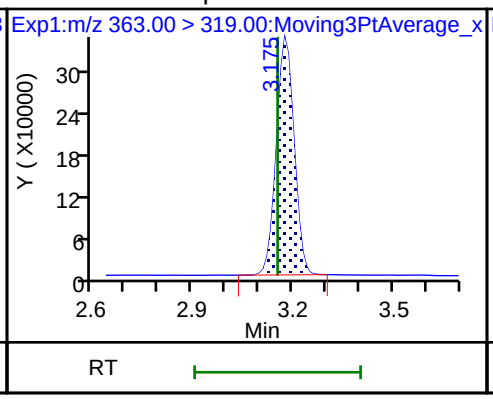
8 Perfluorohexanesulfonic acid (M)



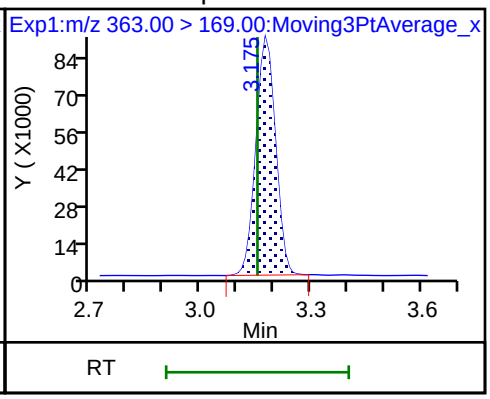
8 Perfluorohexanesulfonic acid (M)



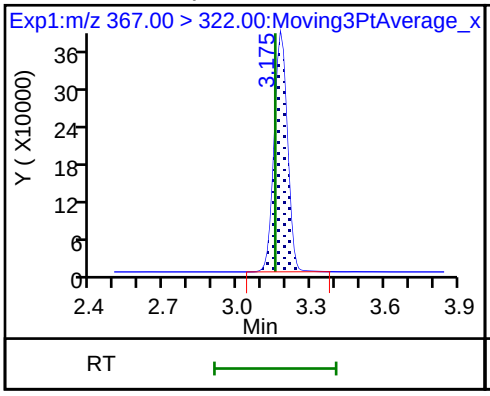
10 Perfluoroheptanoic acid



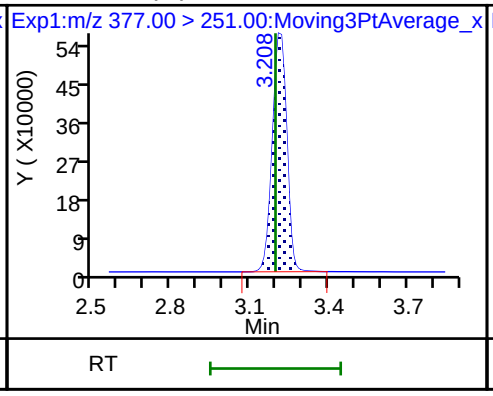
10 Perfluoroheptanoic acid



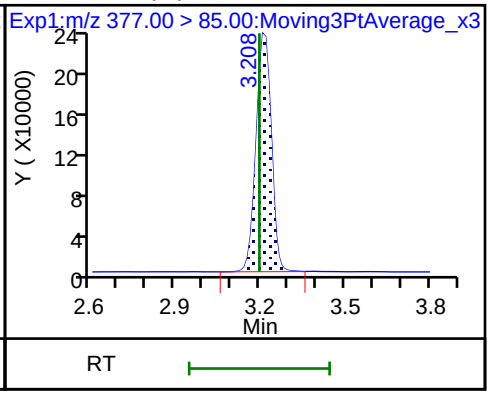
D 9 13C4 PFHpA



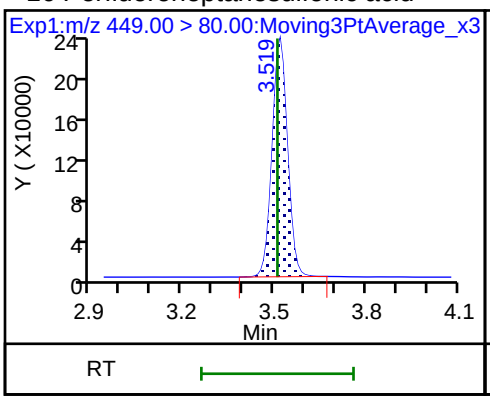
77 DONA (M)



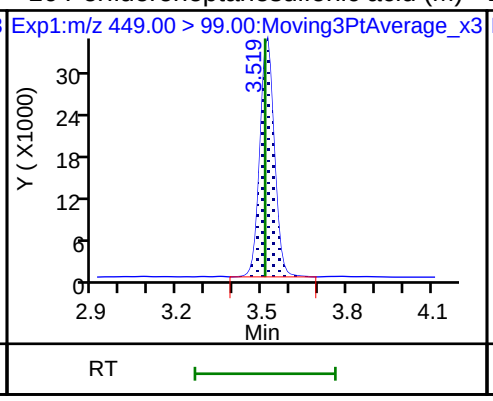
77 DONA (M)



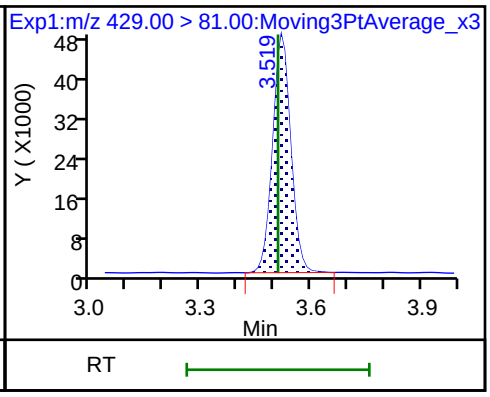
16 Perfluoroheptanesulfonic acid



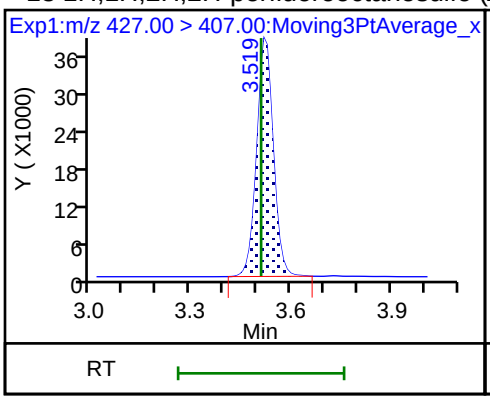
16 Perfluoroheptanesulfonic acid (M)



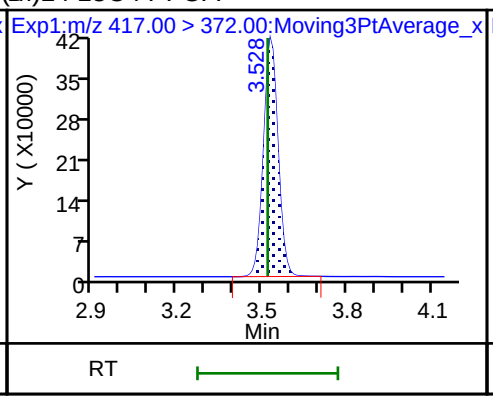
D 12 M2-6:2 FTS



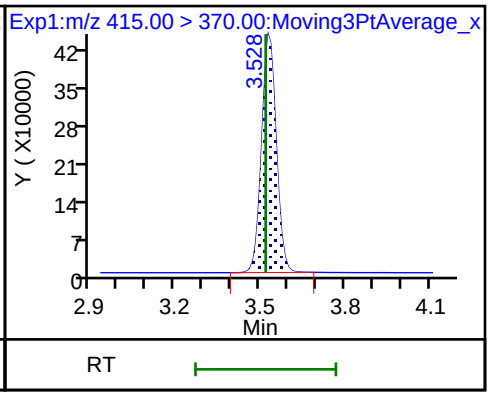
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



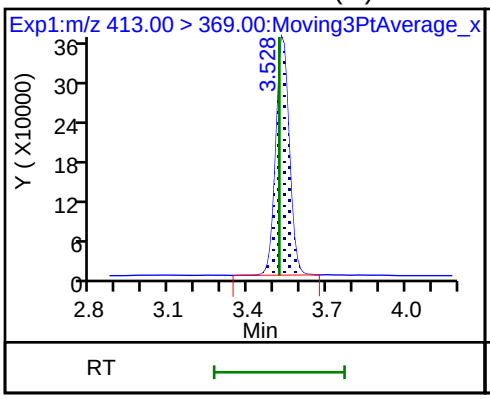
D 14 13C4 PFOA



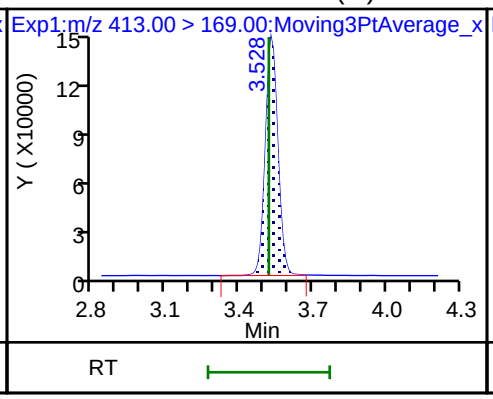
* 62 13C2 PFOA



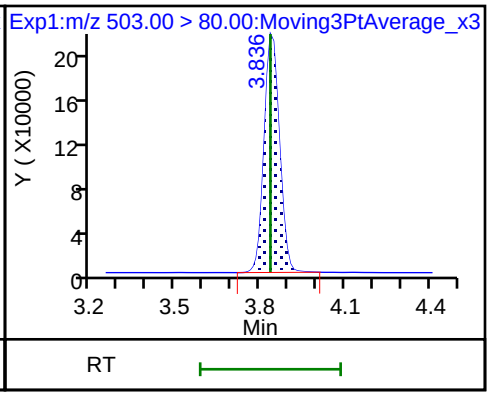
15 Perfluorooctanoic acid (M)



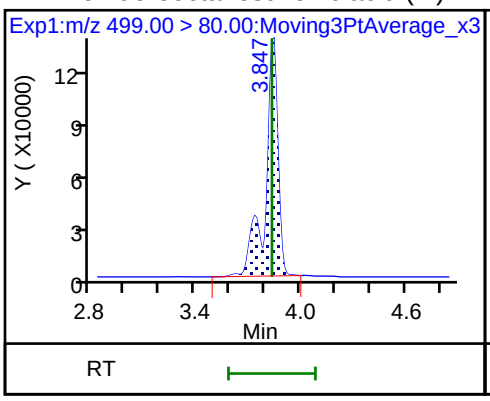
15 Perfluorooctanoic acid (M)



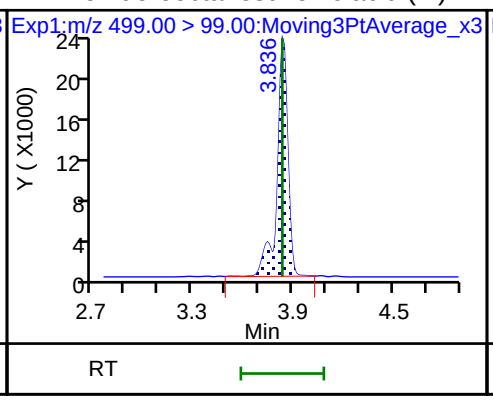
D 18 13C4 PFOS



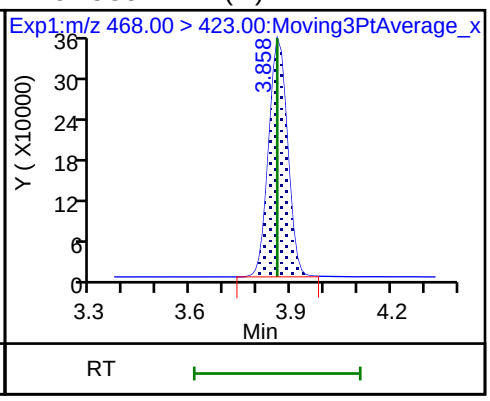
17 Perfluorooctanesulfonic acid (M)



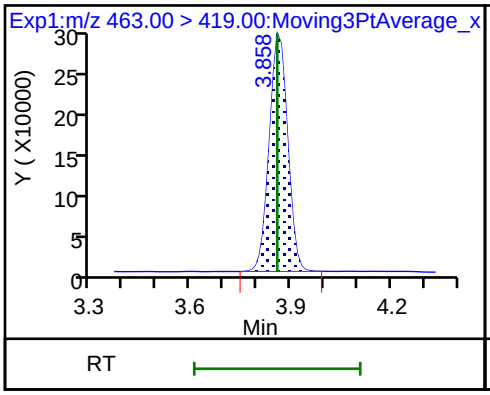
17 Perfluorooctanesulfonic acid (M)



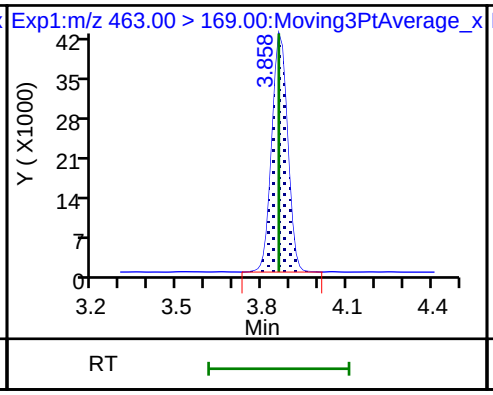
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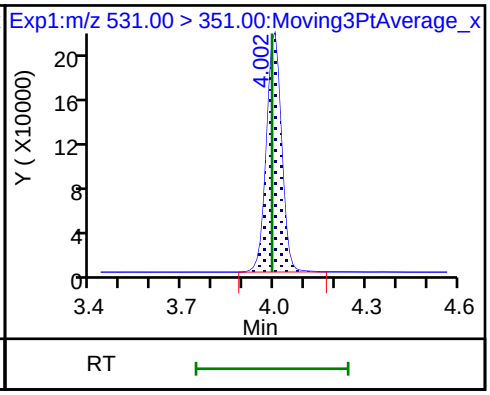
20 Perfluorononanoic acid



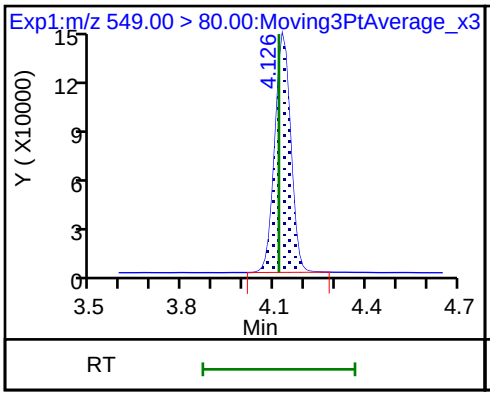
20 Perfluorononanoic acid



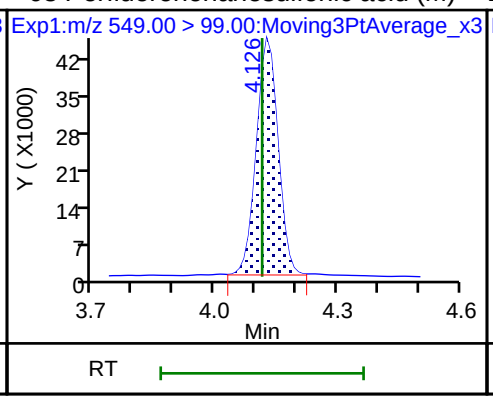
69 9-Chlorohexadecafluoro-3-oxanona (M)



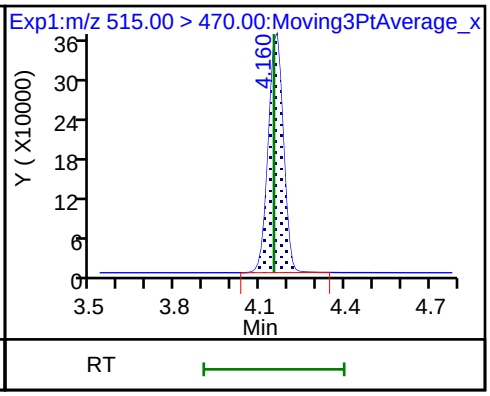
68 Perfluorononanesulfonic acid



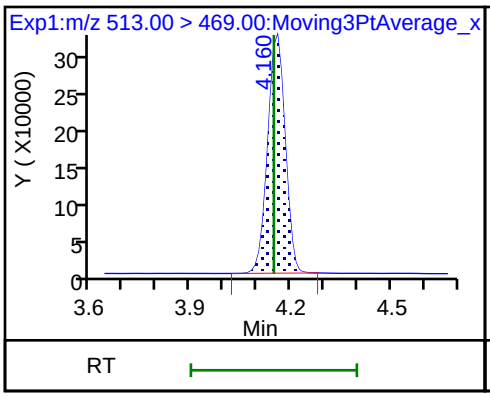
68 Perfluorononanesulfonic acid (M)



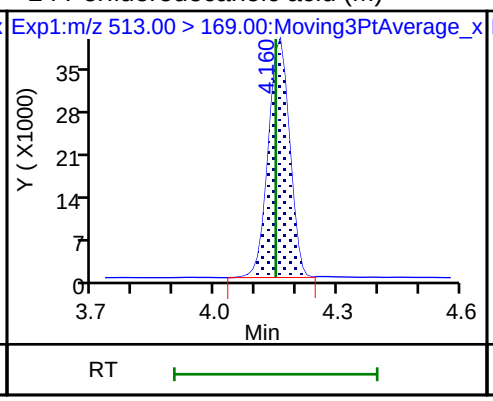
D 23 13C2 PFDA



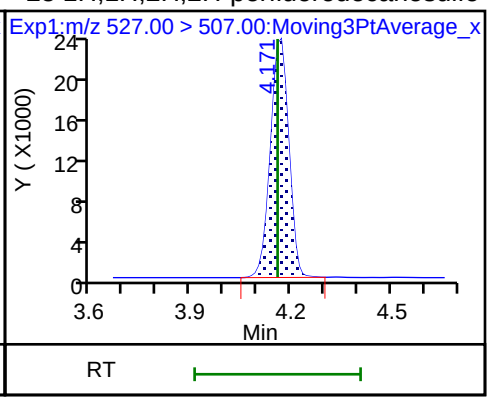
24 Perfluorodecanoic acid



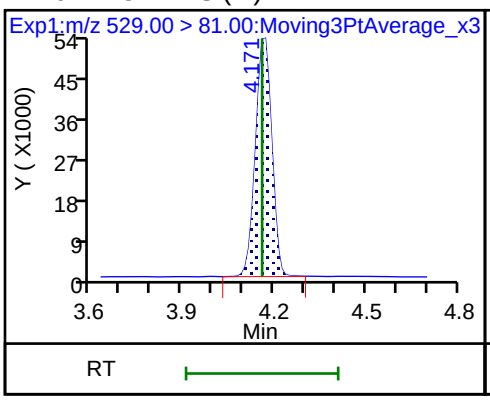
24 Perfluorodecanoic acid (M)



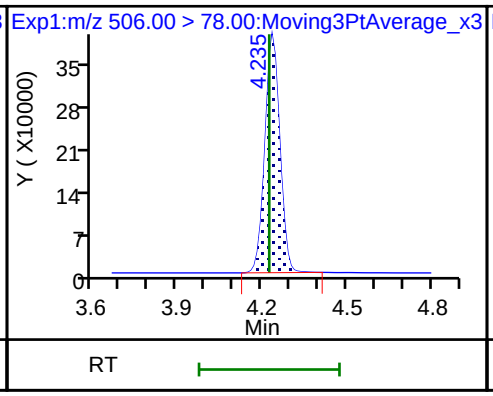
25 1H,1H,2H,2H-perfluorodecanesulfo



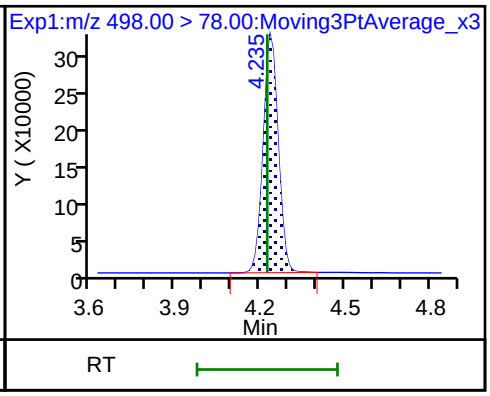
D 26 M2-8:2 FTS (M)



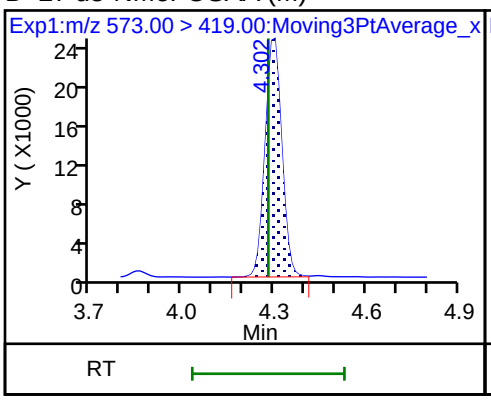
D 21 13C8 FOSA



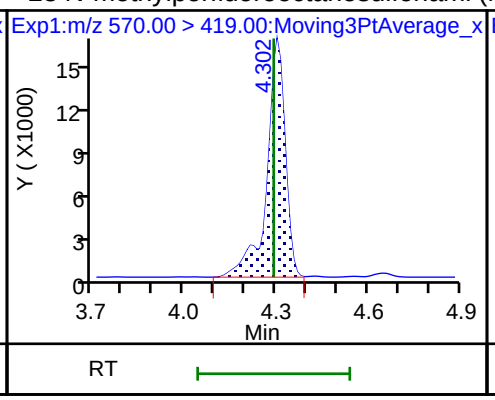
22 Perfluorooctanesulfonamide



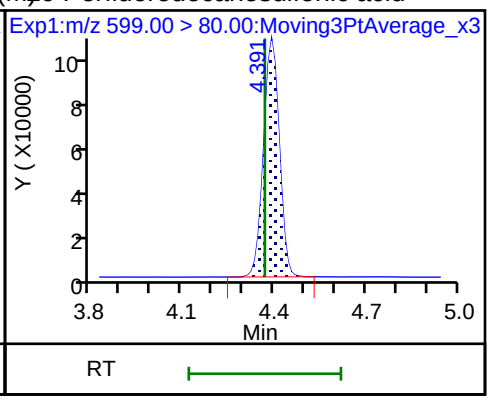
D 27 d3-NMeFOSAA (M)



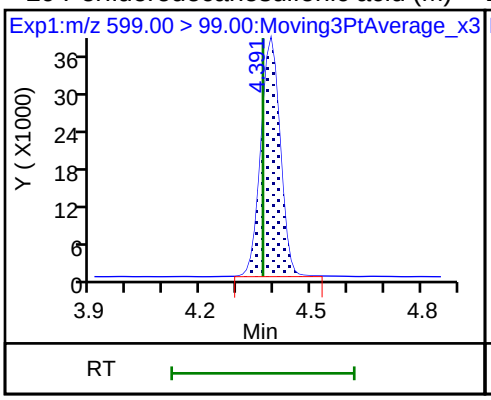
28 N-methylperfluorooctanesulfonami (M)



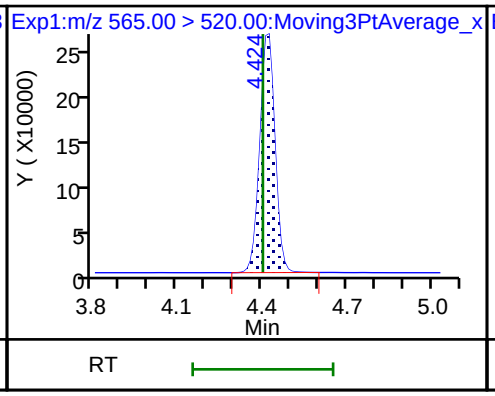
29 Perfluorodecanesulfonic acid



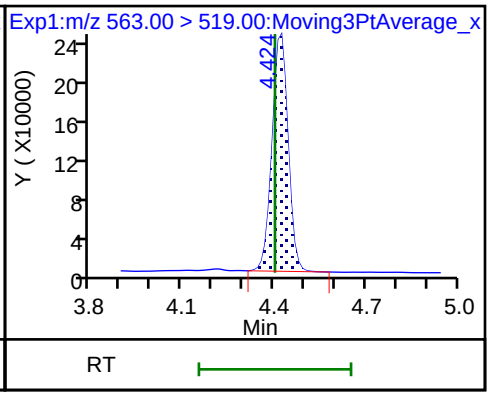
29 Perfluorodecanesulfonic acid (M)



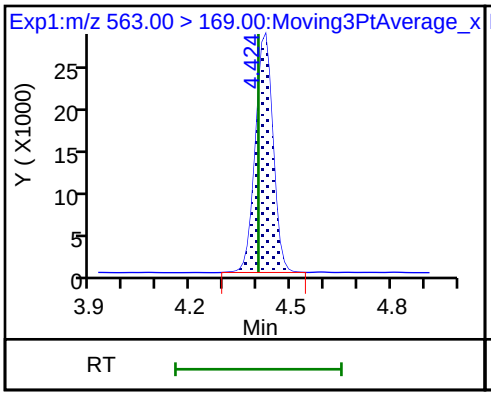
D 30 13C2 PFUnA



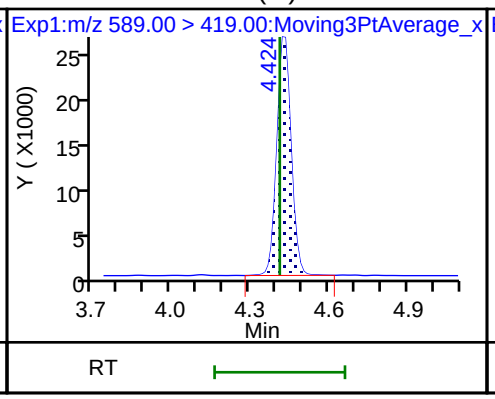
31 Perfluoroundecanoic acid



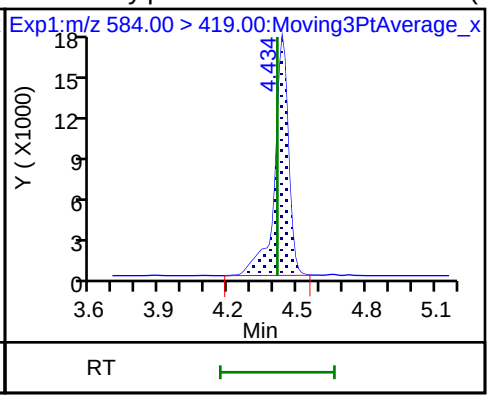
31 Perfluoroundecanoic acid



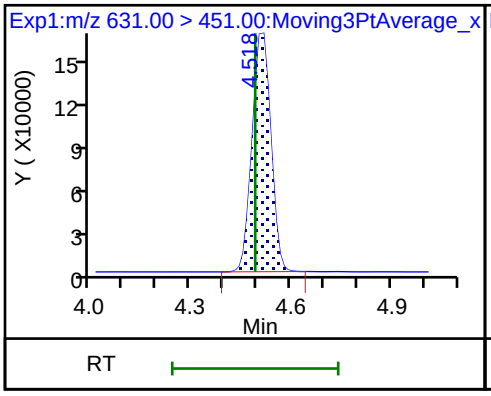
D 32 d5-NEtFOSAA (M)



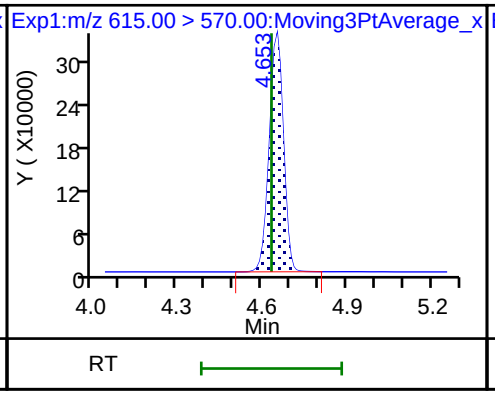
33 N-ethylperfluorooctanesulfonamid (M)



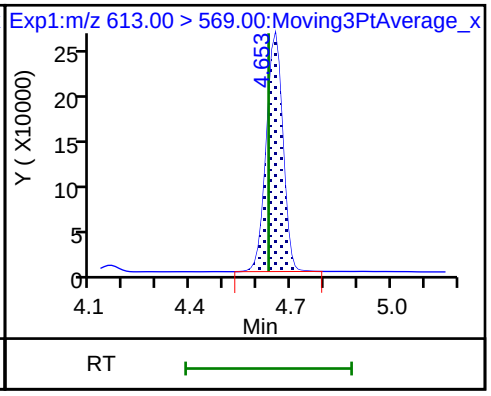
66 11-Chloroeicosafluoro-3-oxaundec



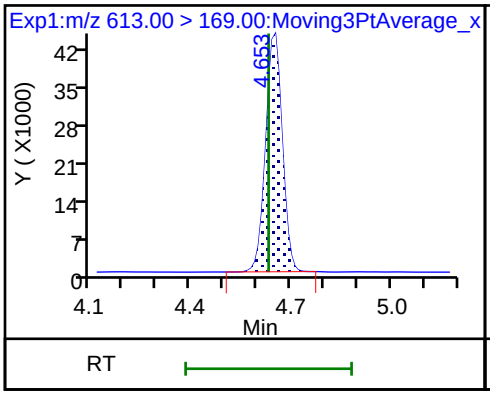
D 36 13C2 PFDoA



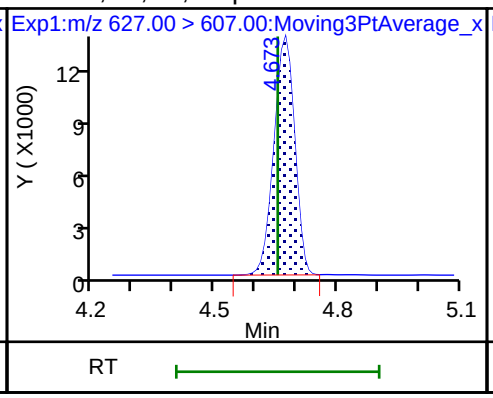
37 Perfluorododecanoic acid



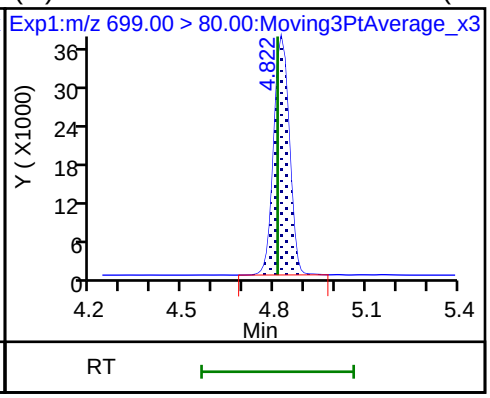
37 Perfluorododecanoic acid



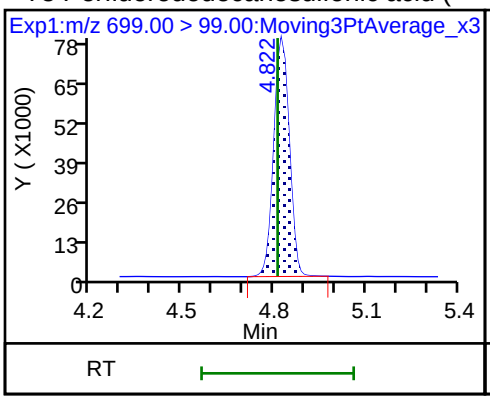
74 1H,1H,2H,2H-perfluorododecanesul (M)



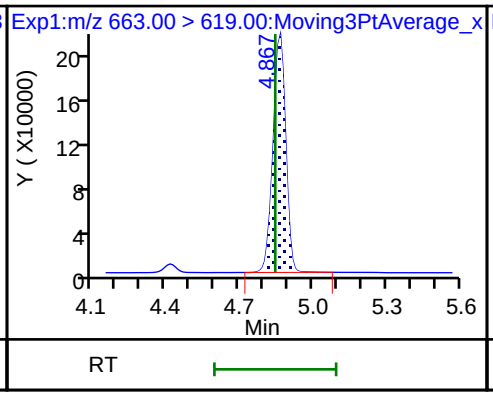
75 Perfluorododecanesulfonic acid (



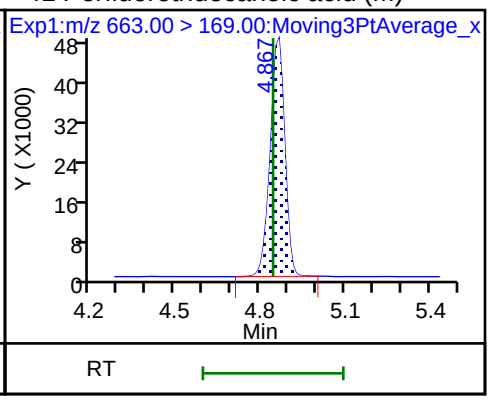
75 Perfluorododecanesulfonic acid (



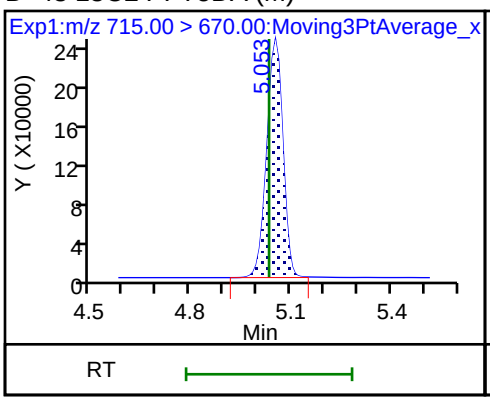
41 Perfluorotridecanoic acid



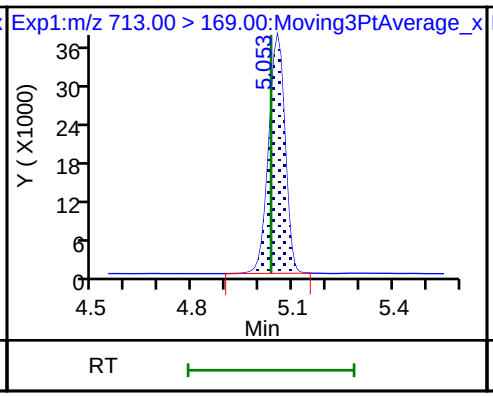
41 Perfluorotridecanoic acid (M)



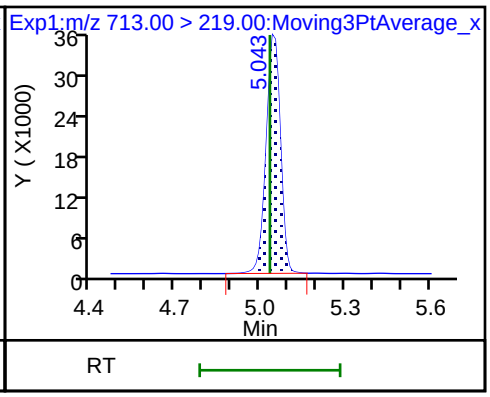
D 43 13C2 PFTeDA (M)



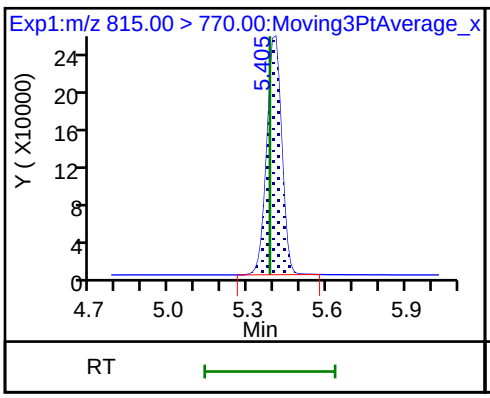
42 Perfluorotetradecanoic acid



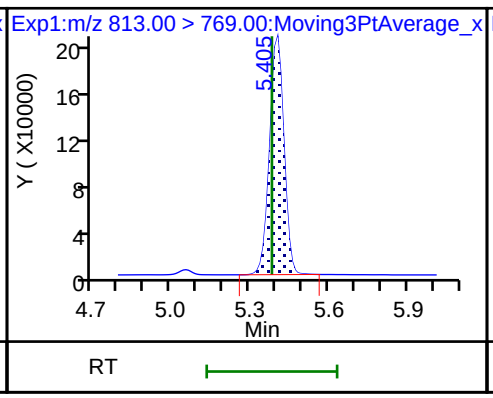
42 Perfluorotetradecanoic acid



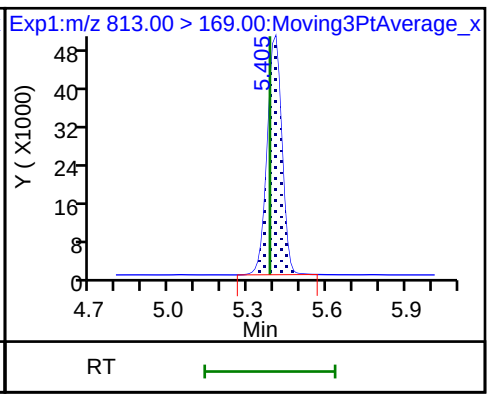
D 44 13C2 PFHxDA



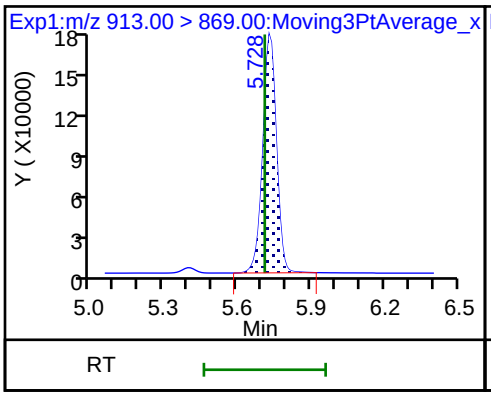
45 Perfluorohexadecanoic acid



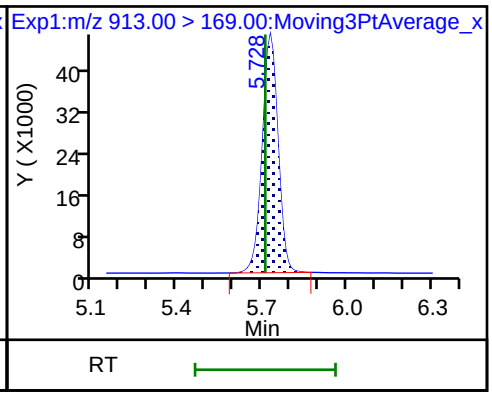
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

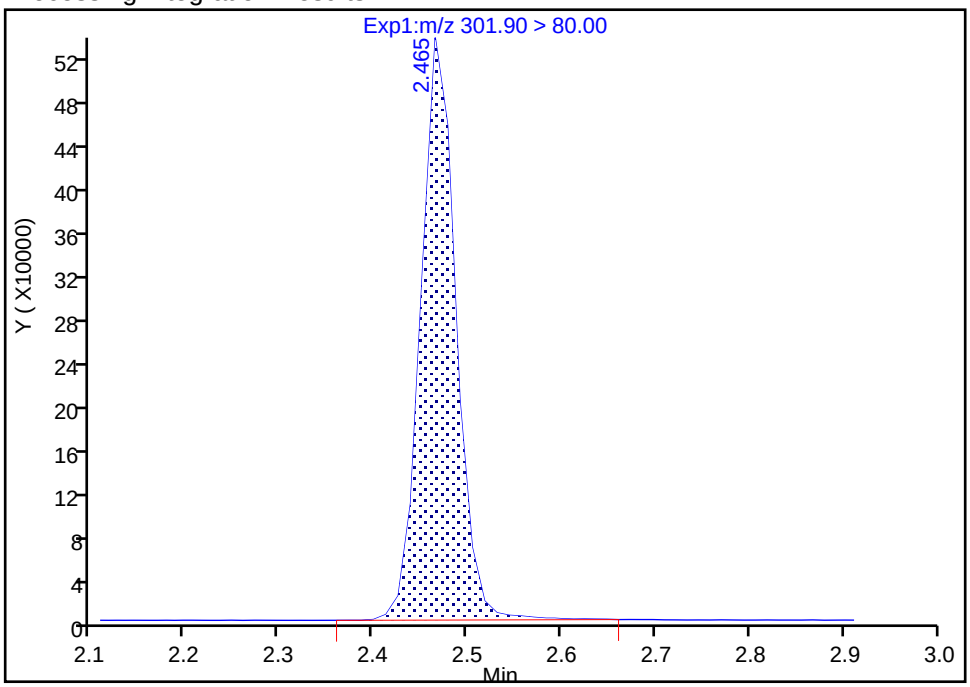
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Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

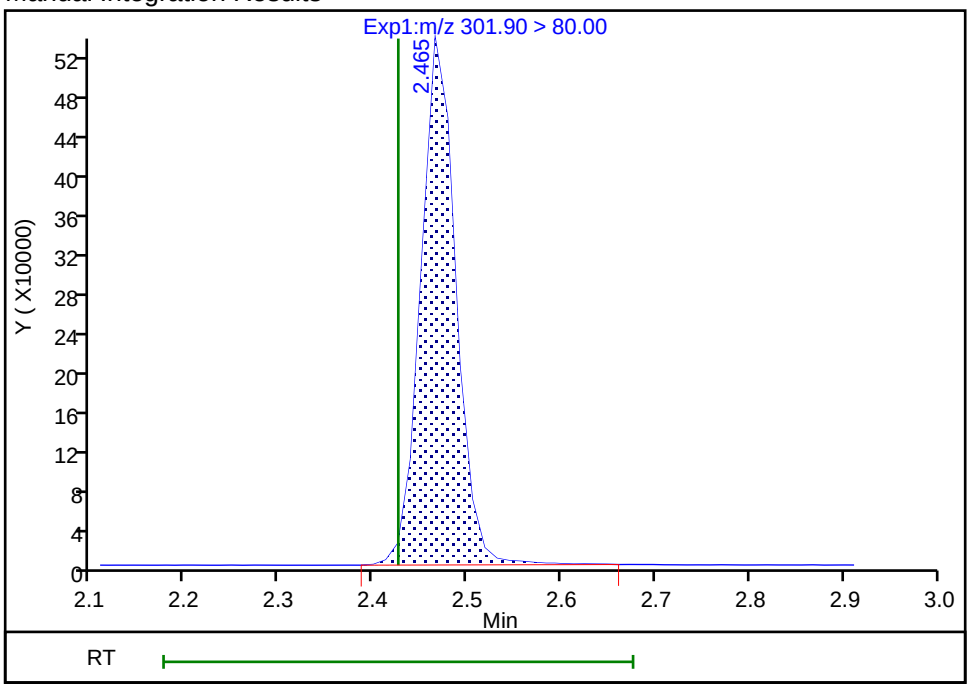
Processing Integration Results

RT: 2.47
Area: 1379304
Amount: 1.181941
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1379097
Amount: 1.181764
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:12:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

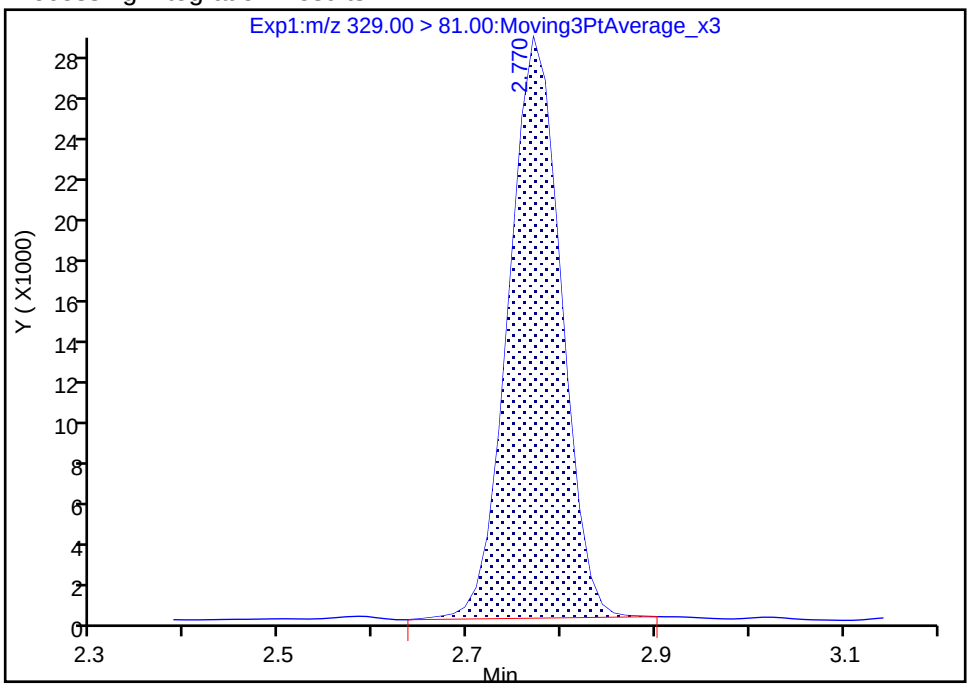
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Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

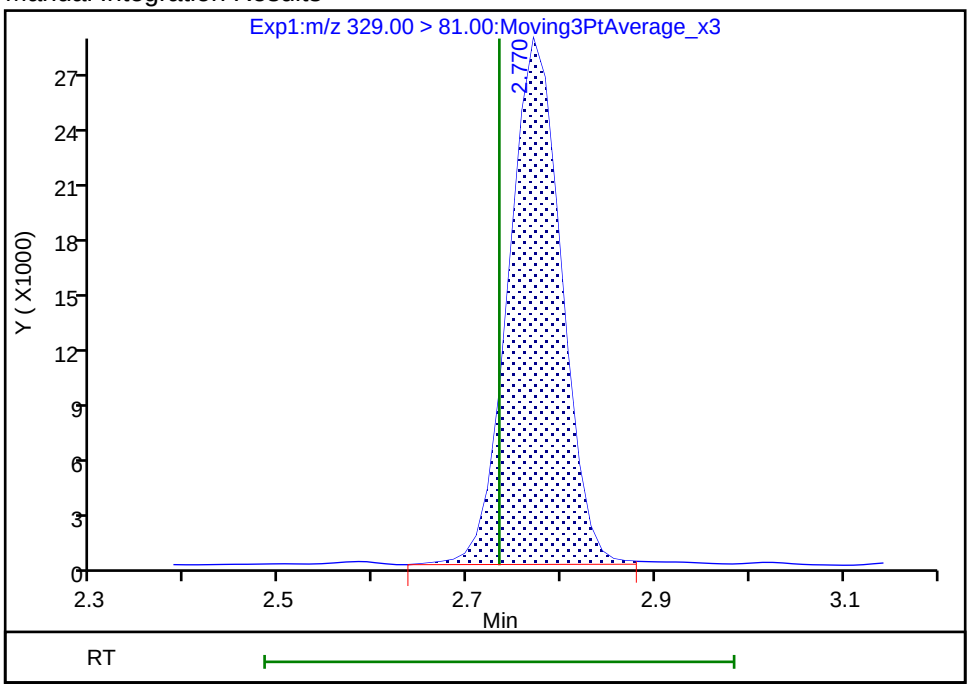
Processing Integration Results

RT: 2.77
Area: 108786
Amount: 1.128432
Amount Units: ng/ml



Manual Integration Results

RT: 2.77
Area: 109581
Amount: 1.136678
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:12:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

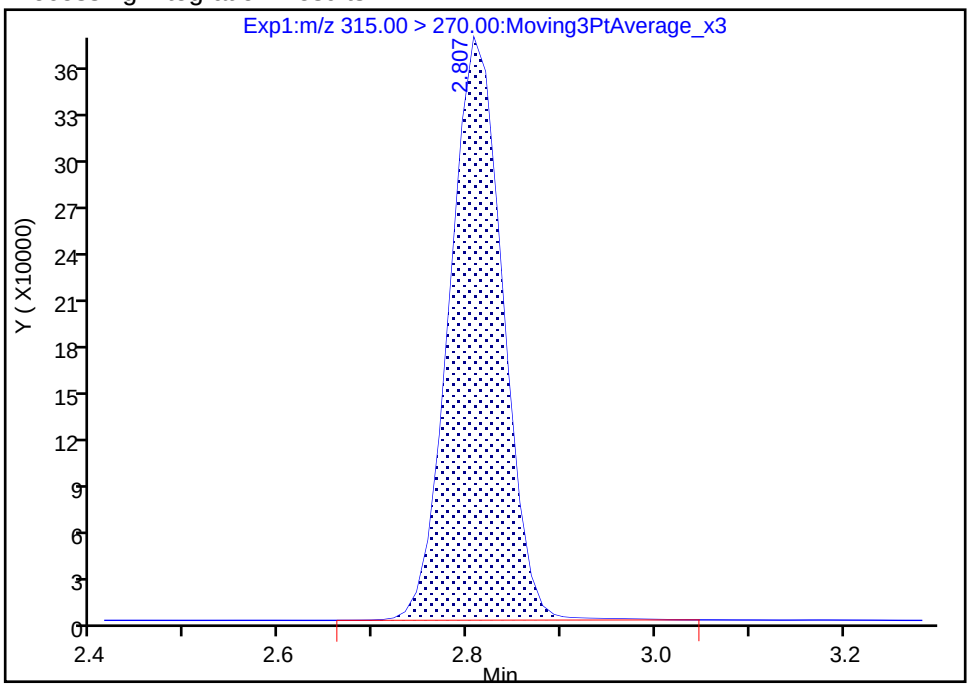
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Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

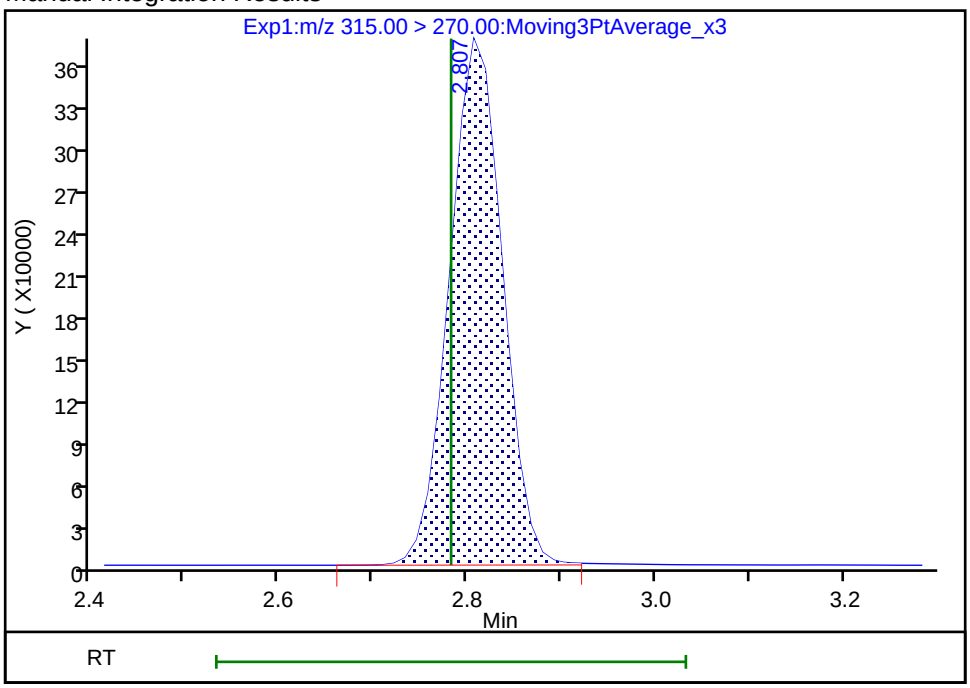
Processing Integration Results

RT: 2.81
Area: 1462536
Amount: 1.205352
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 1458912
Amount: 1.202365
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:12:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

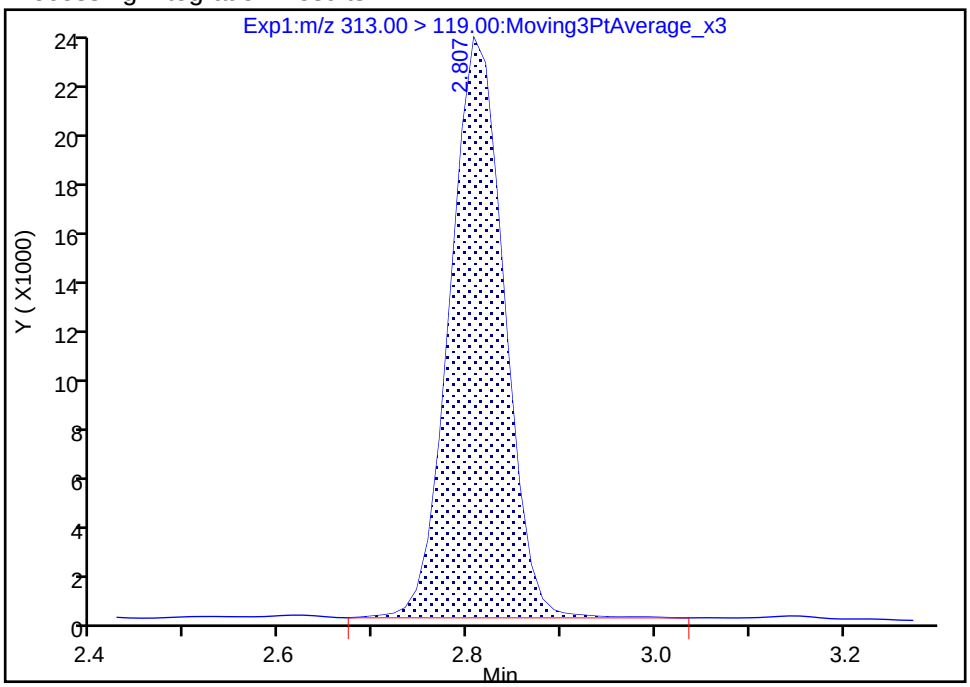
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Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

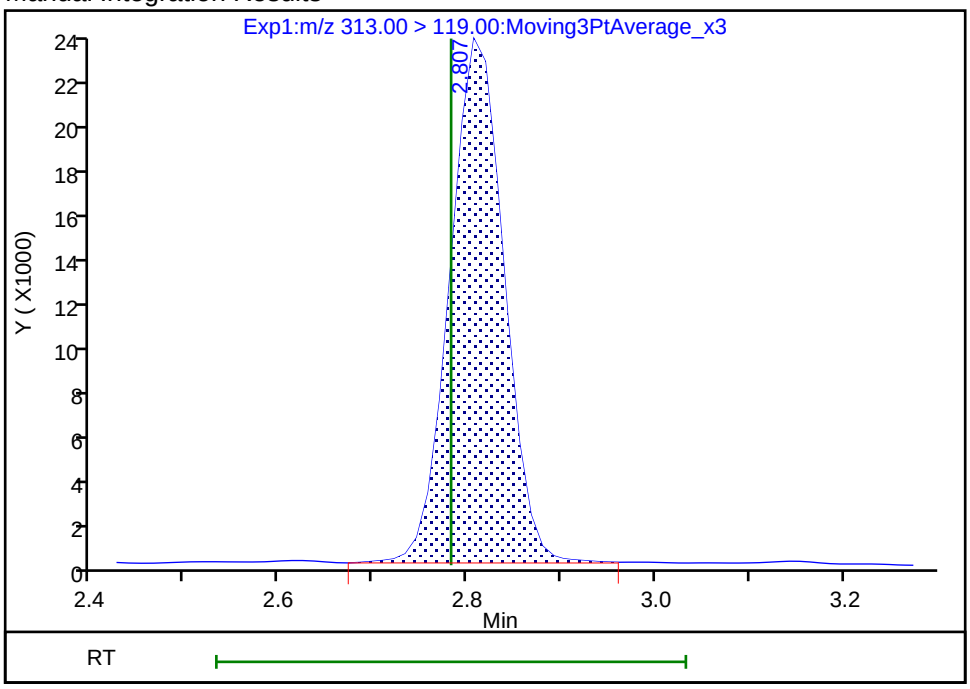
Processing Integration Results

RT: 2.81
Area: 92467
Amount: 1.039874
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 92362
Amount: 1.035947
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:14:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

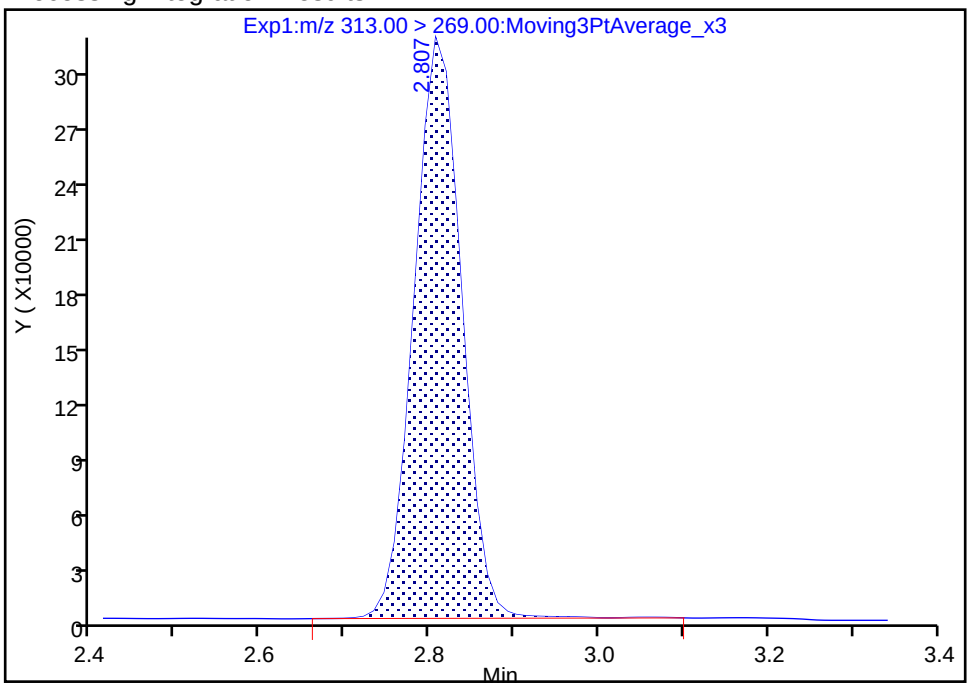
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

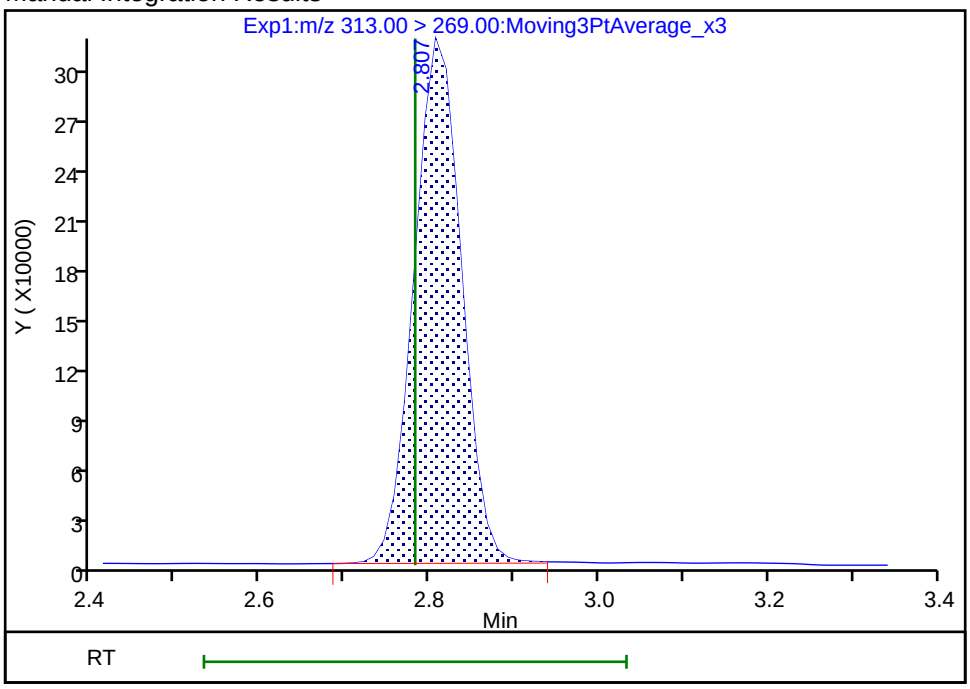
Processing Integration Results

RT: 2.81
Area: 1221027
Amount: 1.039874
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 1216416
Amount: 1.035947
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:15:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

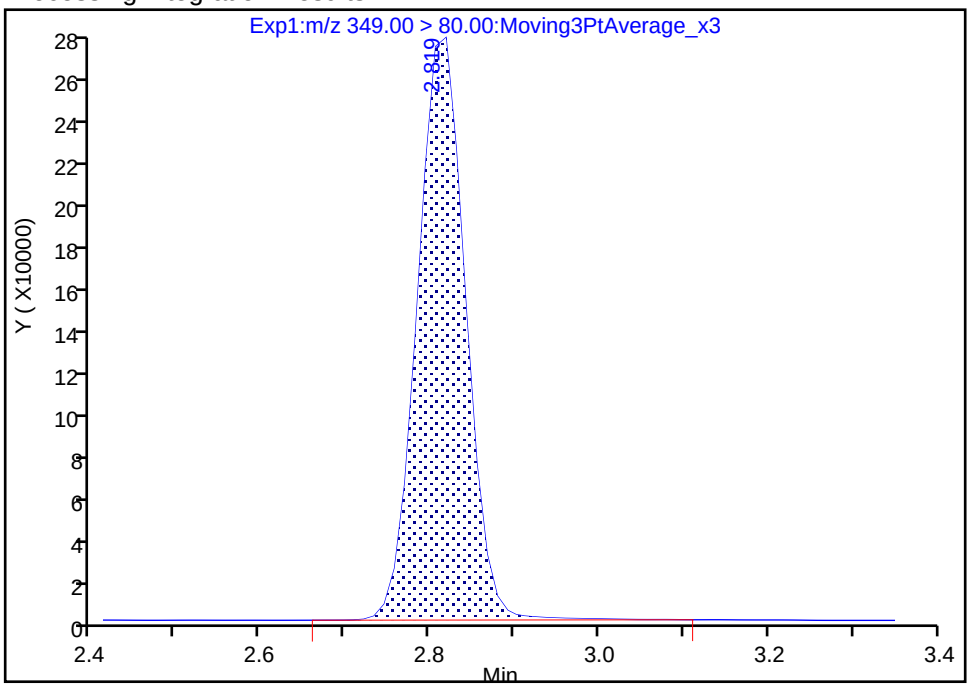
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

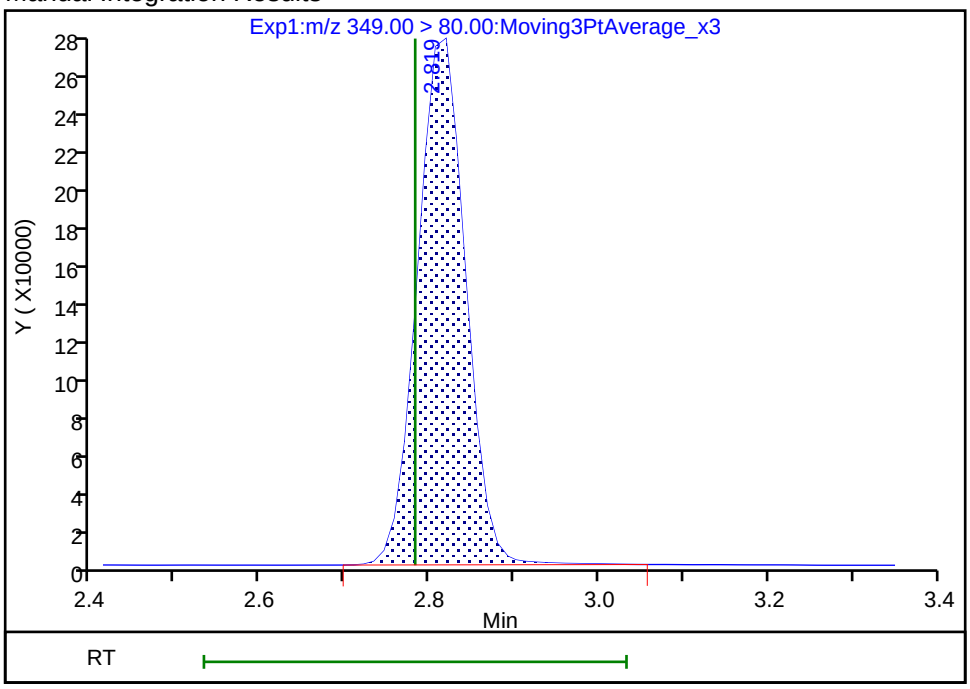
Processing Integration Results

RT: 2.82
Area: 1070165
Amount: 0.970923
Amount Units: ng/ml



Manual Integration Results

RT: 2.82
Area: 1068462
Amount: 0.969378
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:15:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

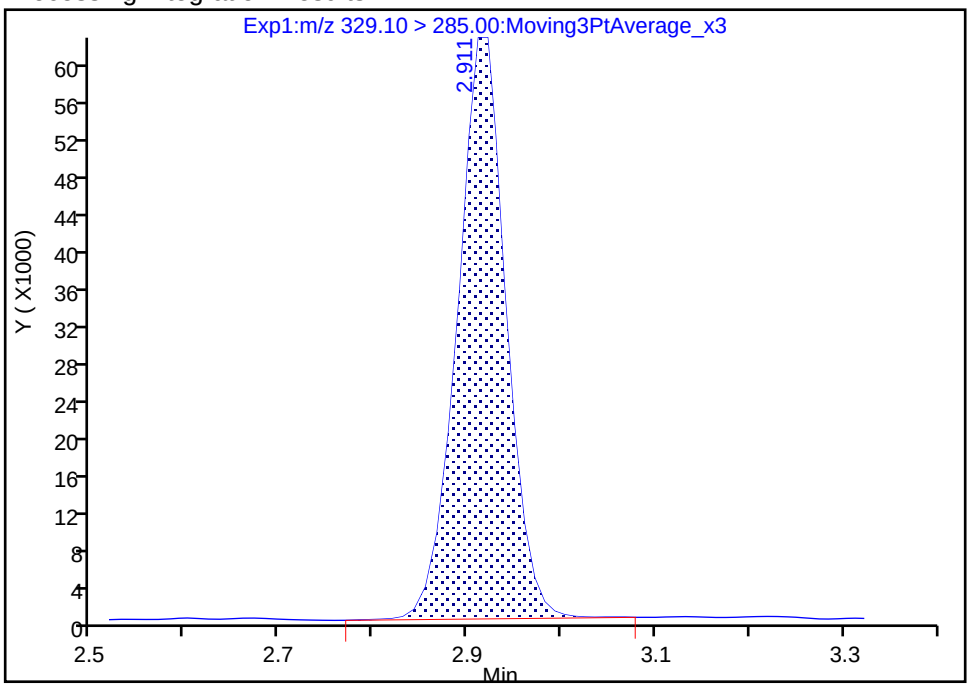
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

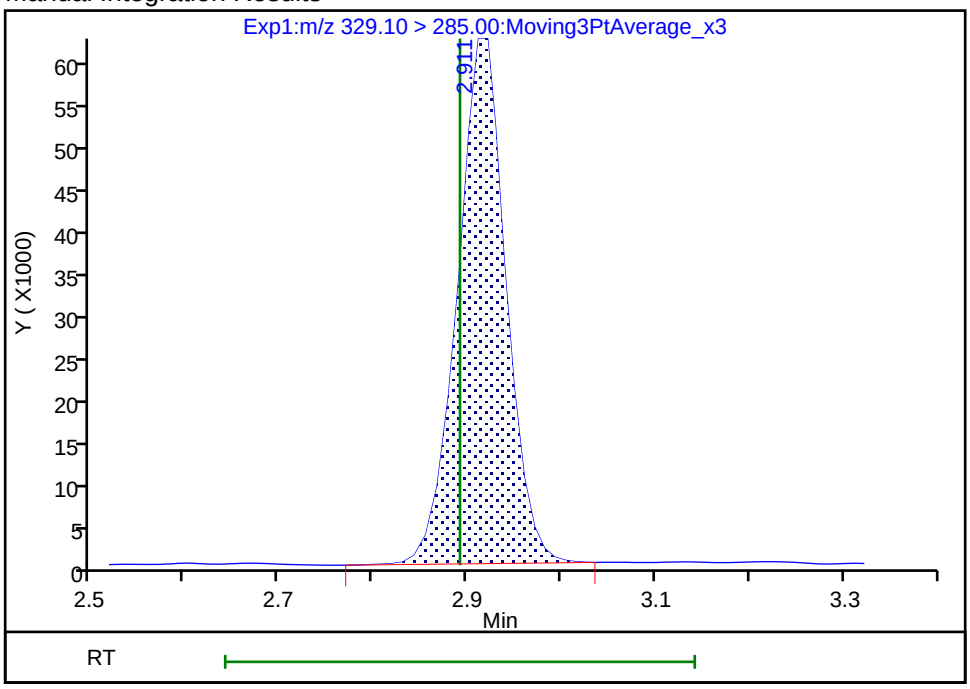
Processing Integration Results

RT: 2.91
Area: 220187
Amount: 0.936475
Amount Units: ng/ml



Manual Integration Results

RT: 2.91
Area: 219594
Amount: 0.933953
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:15:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

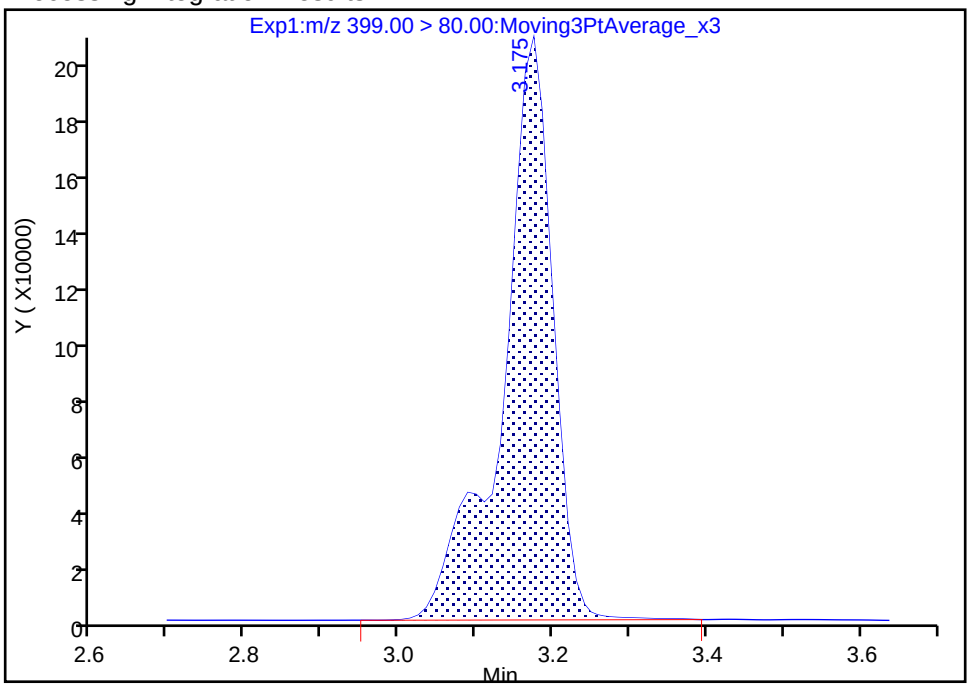
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

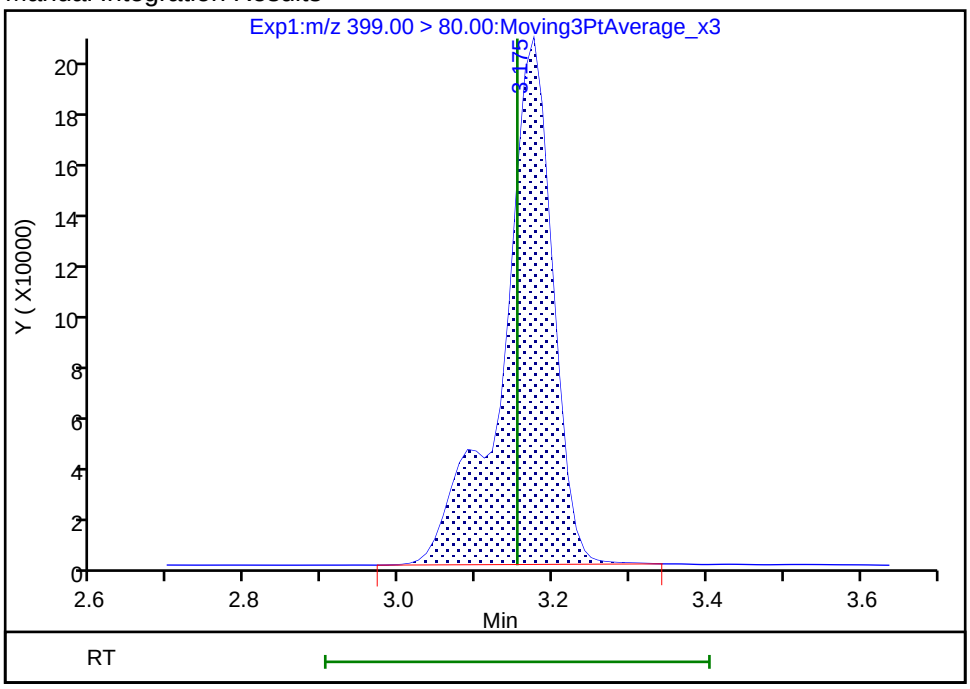
Processing Integration Results

RT: 3.17
Area: 928719
Amount: 0.895107
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 924819
Amount: 0.891348
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:15:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

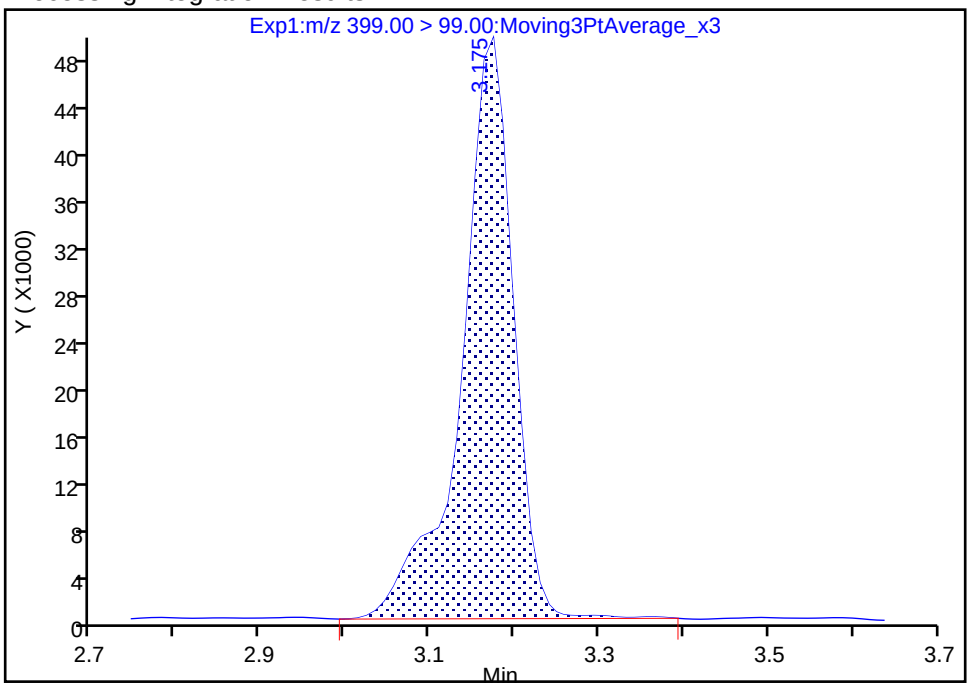
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

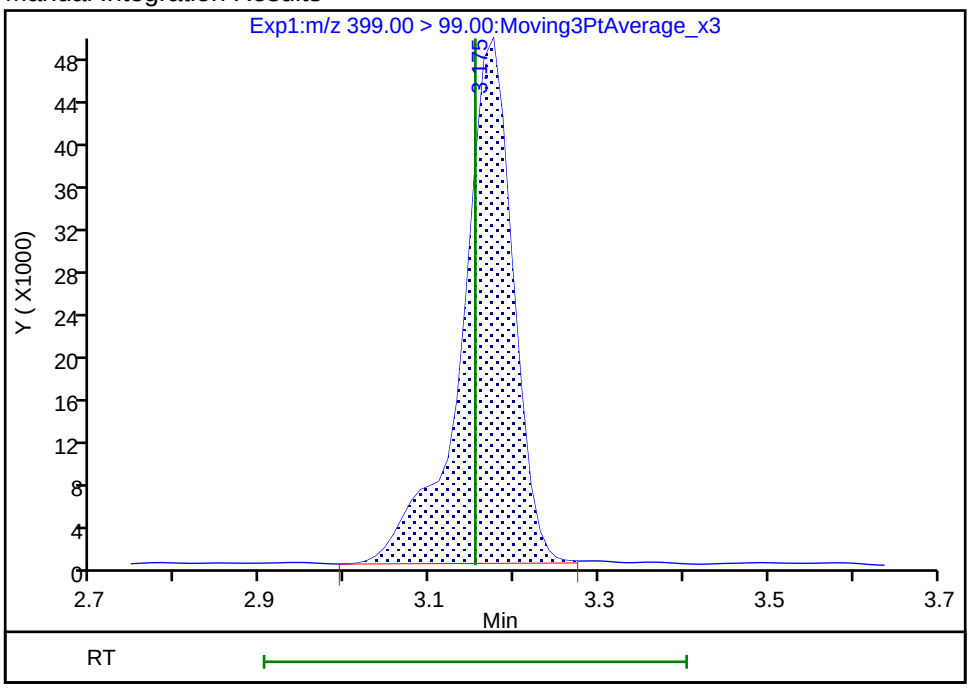
Processing Integration Results

RT: 3.17
Area: 212184
Amount: 0.895107
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 210676
Amount: 0.891348
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:16:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

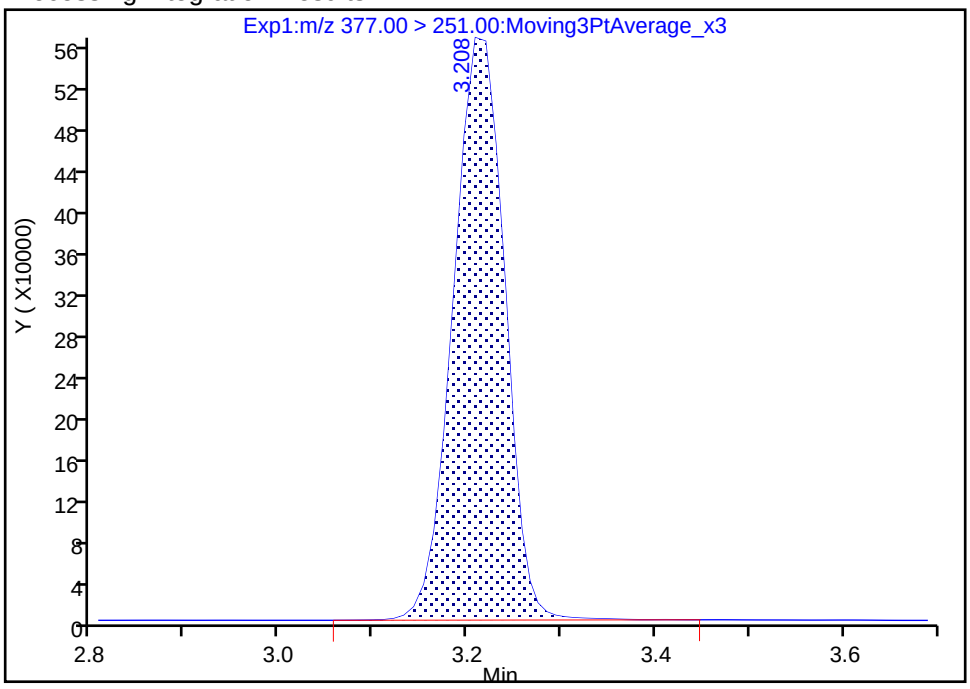
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

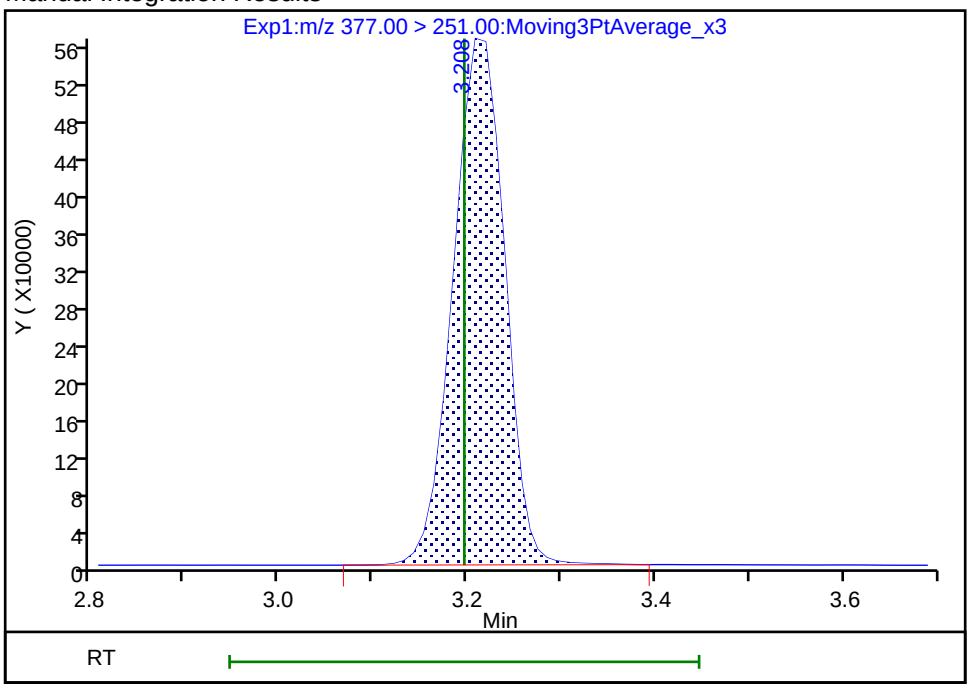
Processing Integration Results

RT: 3.21
Area: 2133113
Amount: 0.913694
Amount Units: ng/ml



Manual Integration Results

RT: 3.21
Area: 2131033
Amount: 0.912803
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:16:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

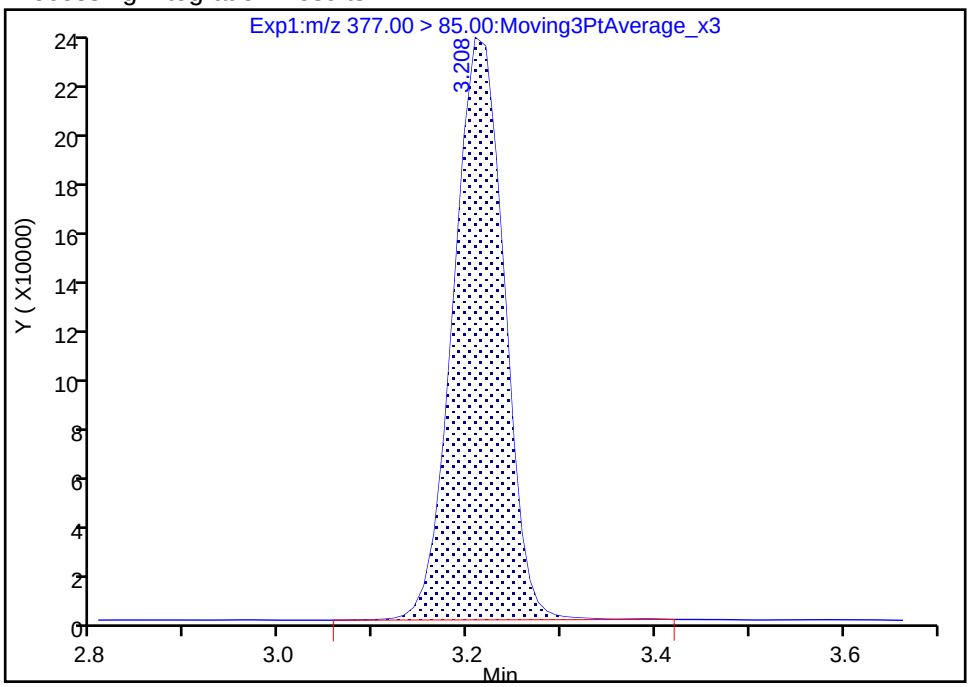
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

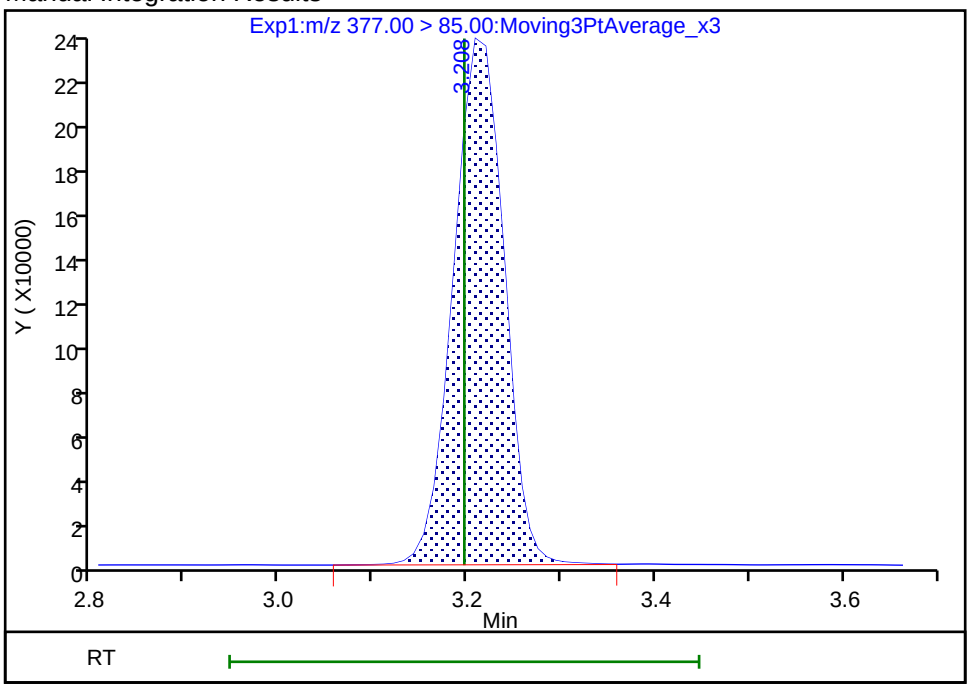
Processing Integration Results

RT: 3.21
Area: 874188
Amount: 0.913694
Amount Units: ng/ml



Manual Integration Results

RT: 3.21
Area: 873658
Amount: 0.912803
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:16:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

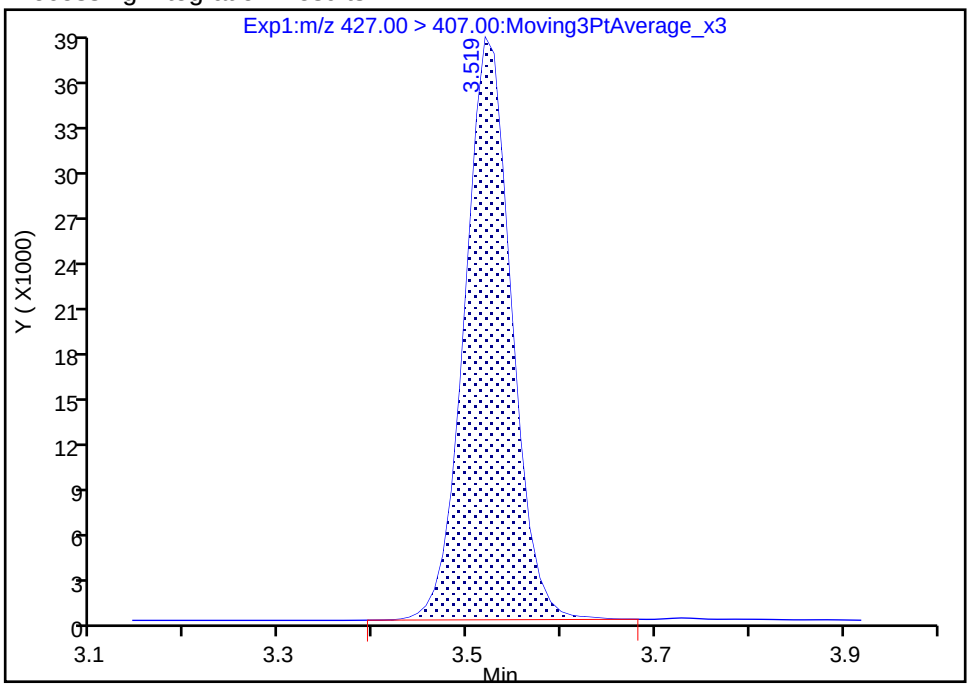
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

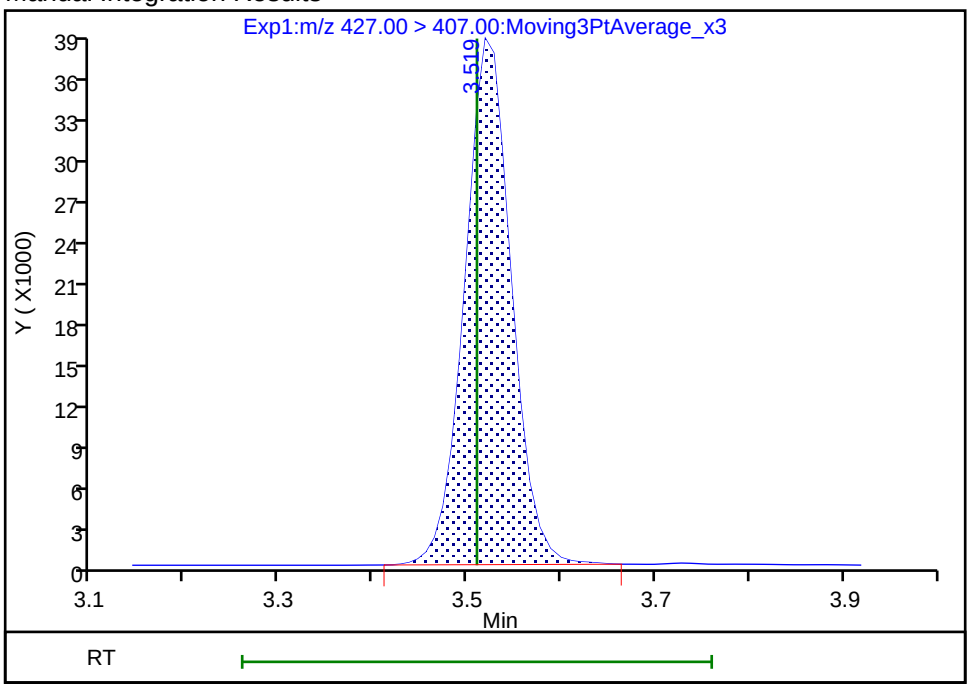
Processing Integration Results

RT: 3.52
Area: 133710
Amount: 0.938367
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 133629
Amount: 0.937799
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:17:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

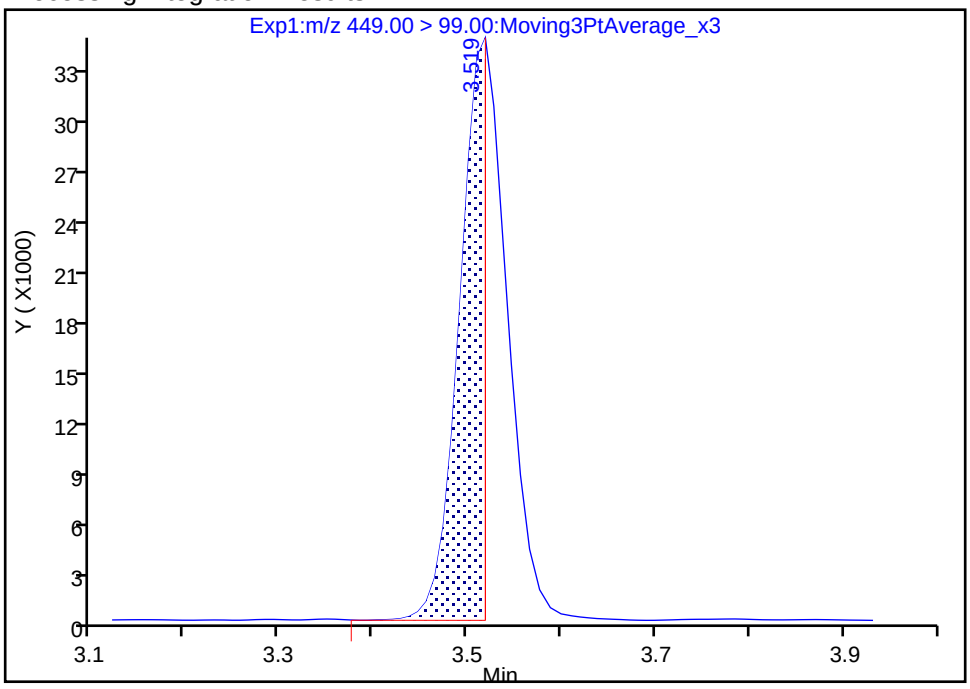
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

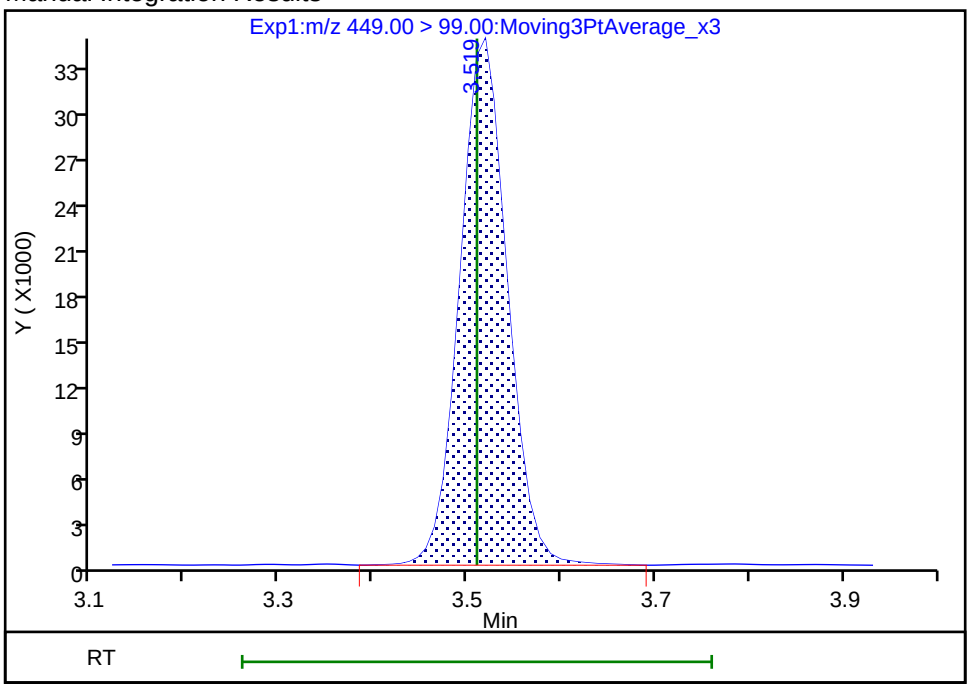
Processing Integration Results

RT: 3.52
Area: 63790
Amount: 0.977749
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 121531
Amount: 0.977749
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:16:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

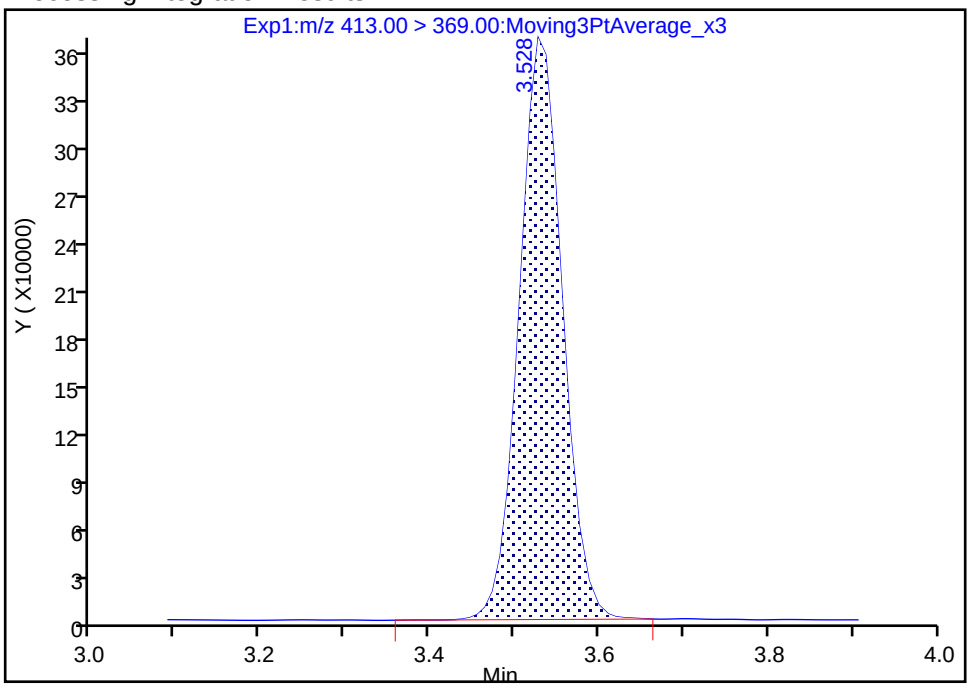
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

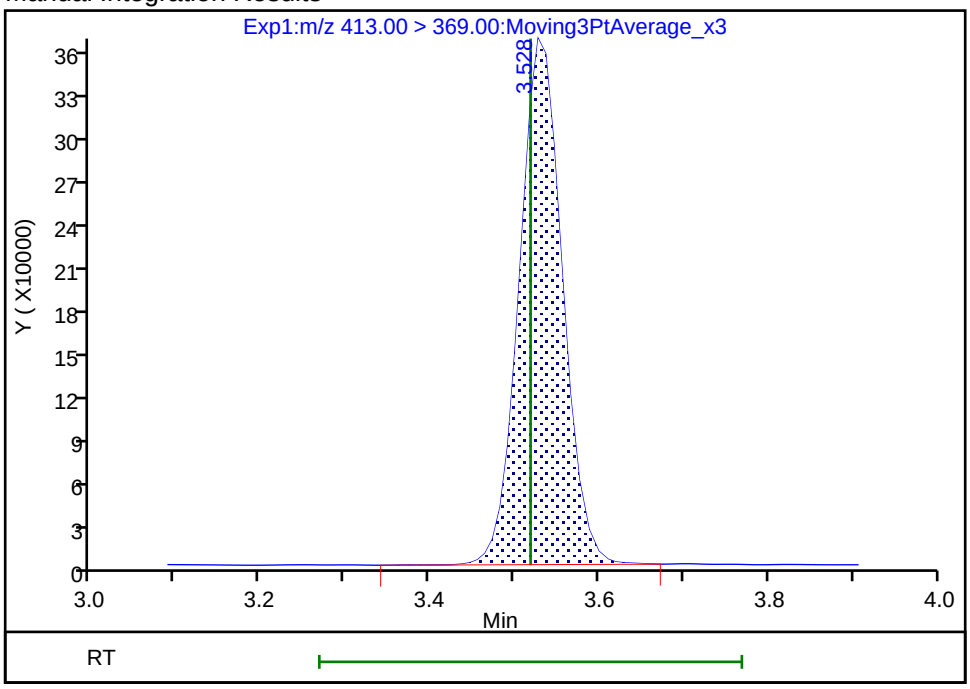
Processing Integration Results

RT: 3.53
Area: 1291362
Amount: 1.041284
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 1293236
Amount: 1.042795
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:17:10

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

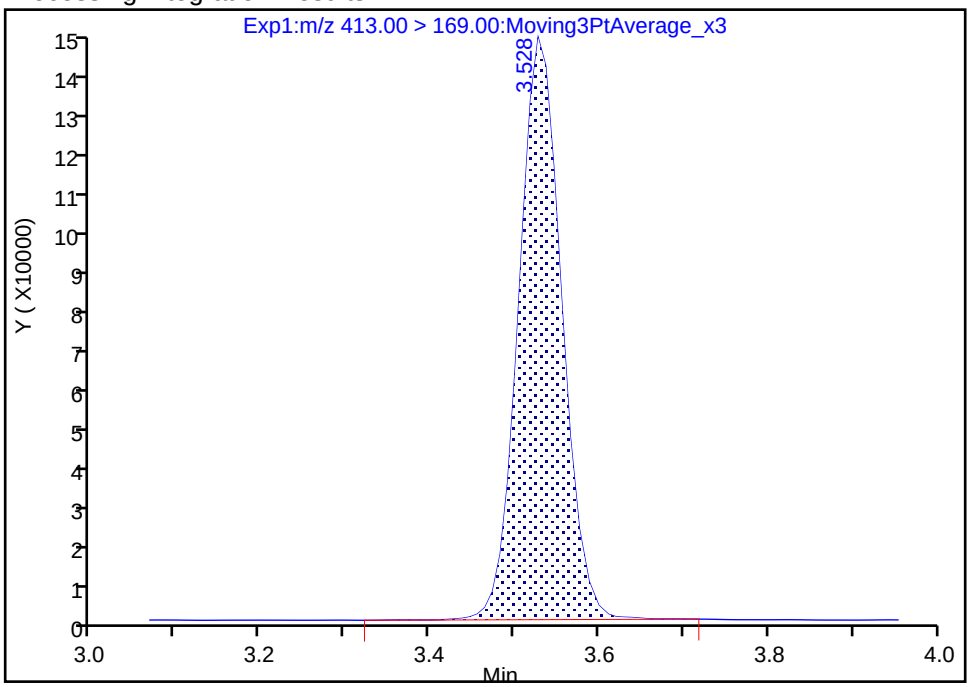
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

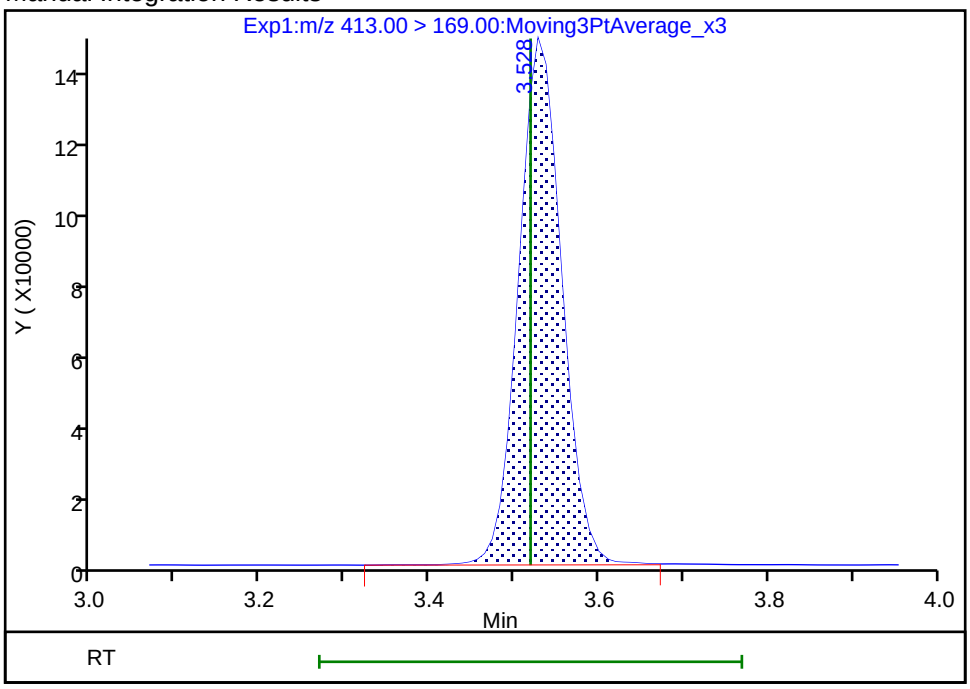
Processing Integration Results

RT: 3.53
Area: 501157
Amount: 1.041284
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 502513
Amount: 1.042795
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:17:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

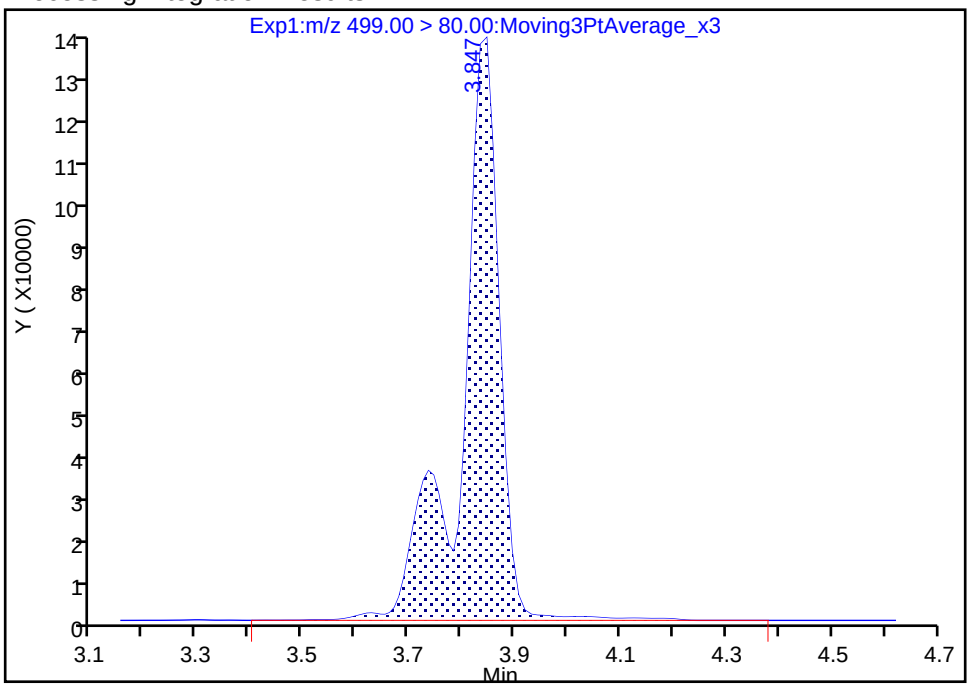
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

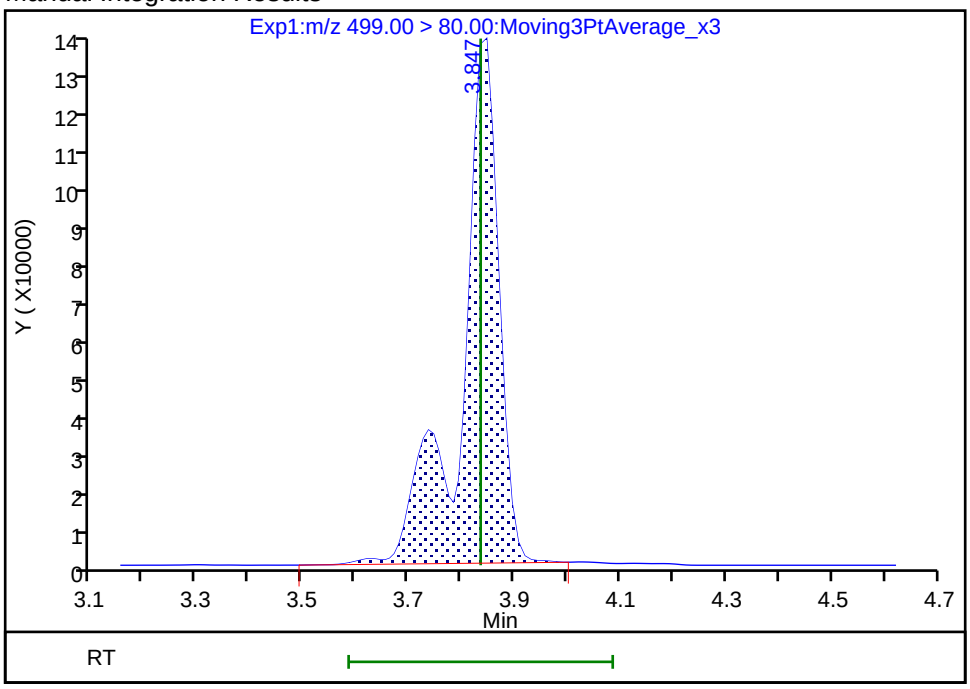
Processing Integration Results

RT: 3.85
Area: 676098
Amount: 0.910160
Amount Units: ng/ml



Manual Integration Results

RT: 3.85
Area: 657106
Amount: 0.884593
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:17:45
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

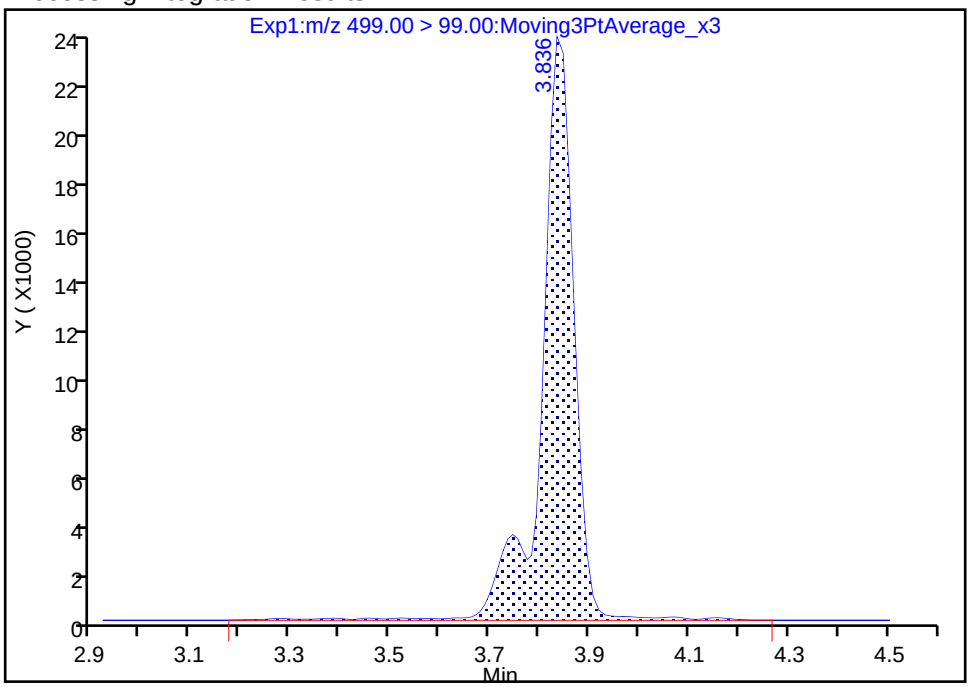
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

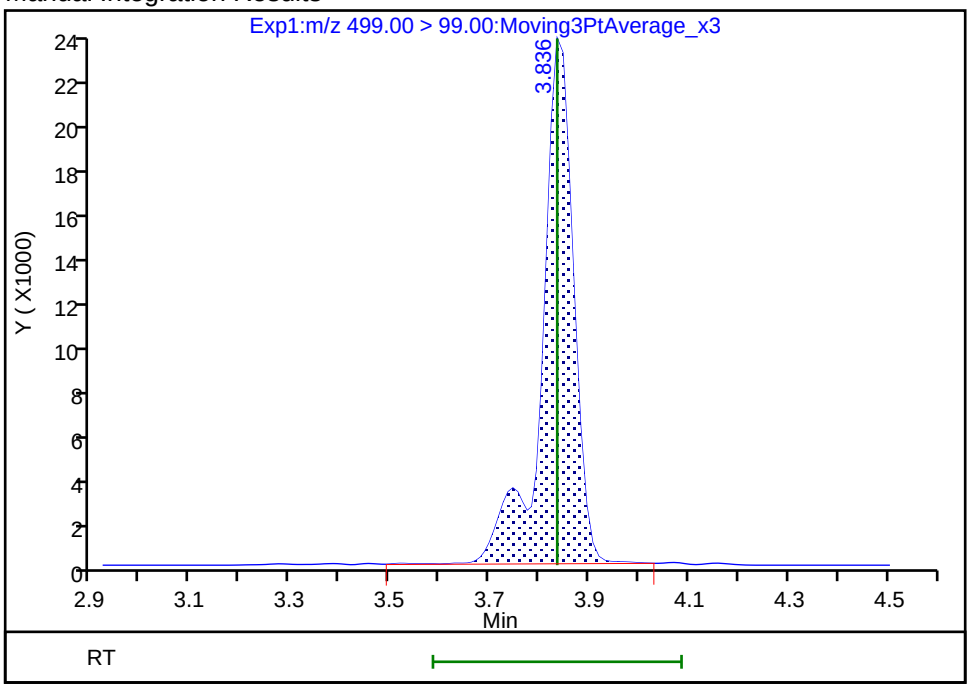
Processing Integration Results

RT: 3.84
Area: 105176
Amount: 0.910160
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 101929
Amount: 0.884593
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:18:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

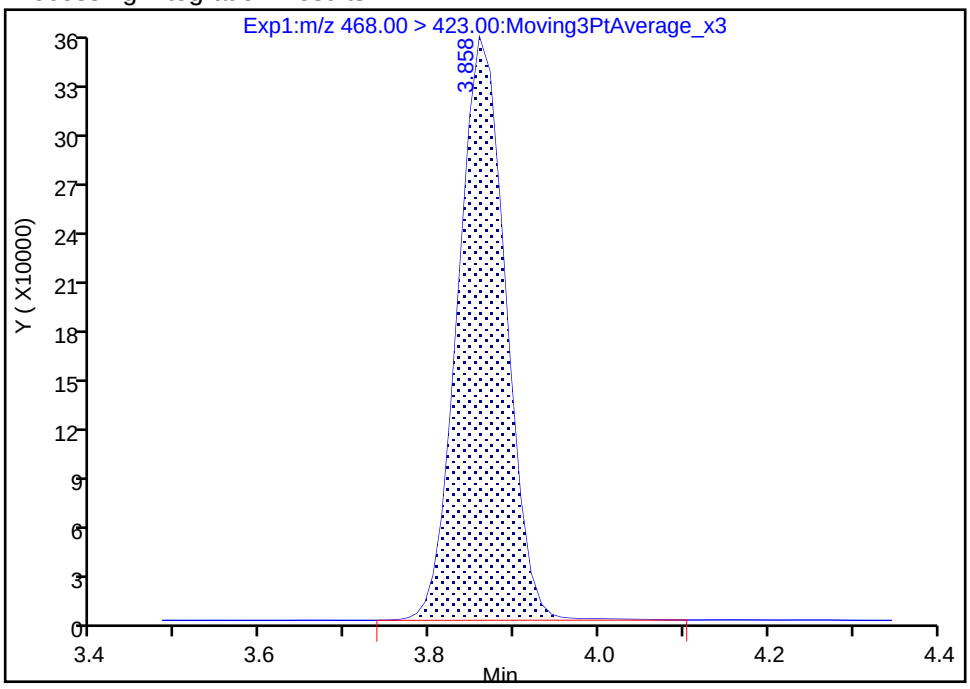
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

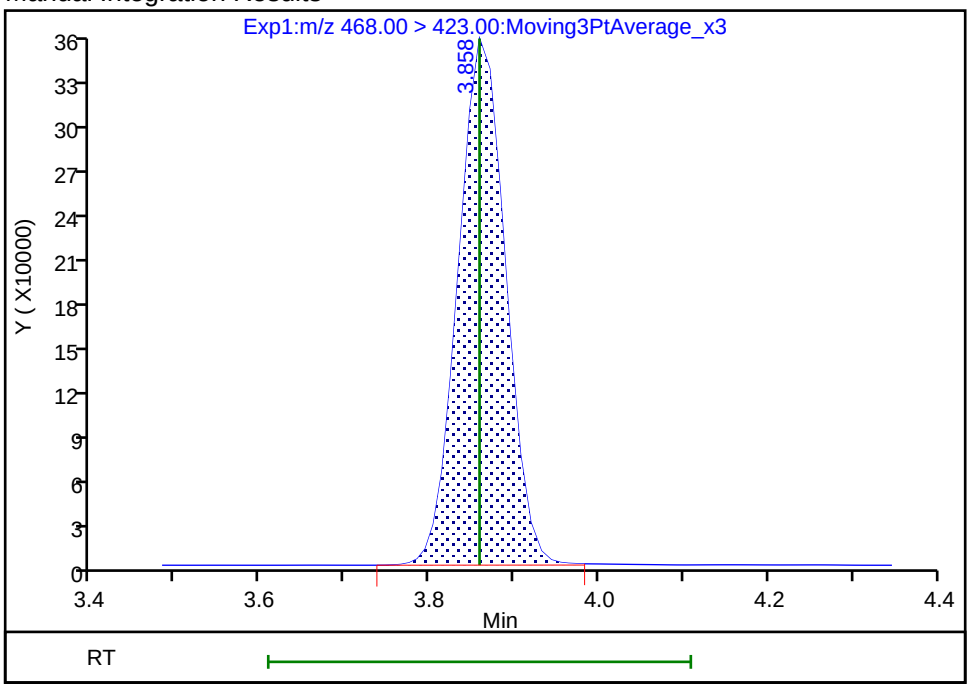
Processing Integration Results

RT: 3.86
Area: 1384110
Amount: 1.160330
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 1381382
Amount: 1.158043
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:13:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

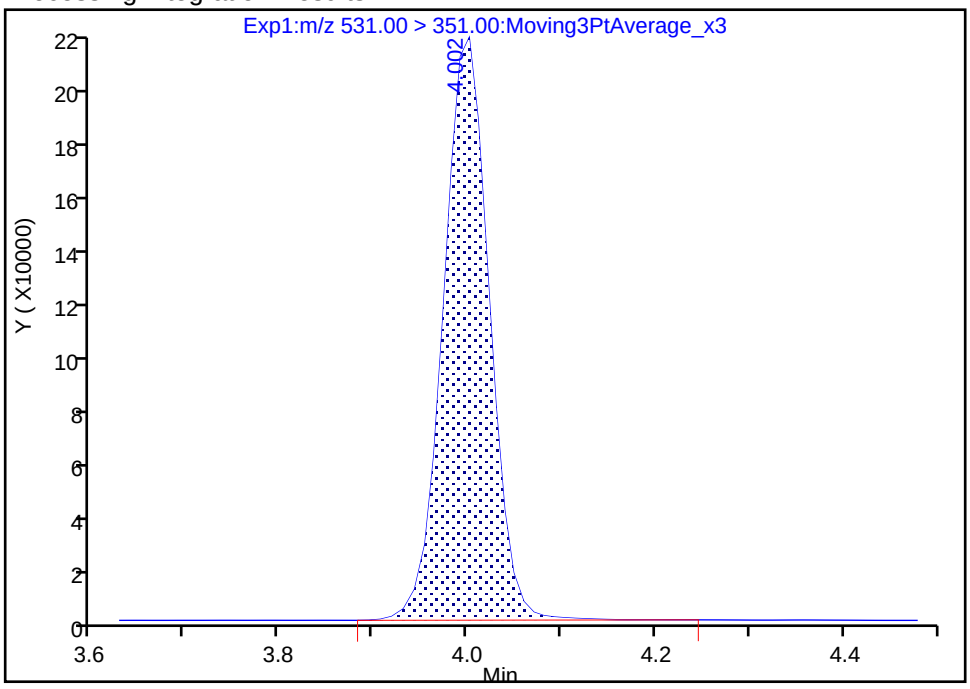
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

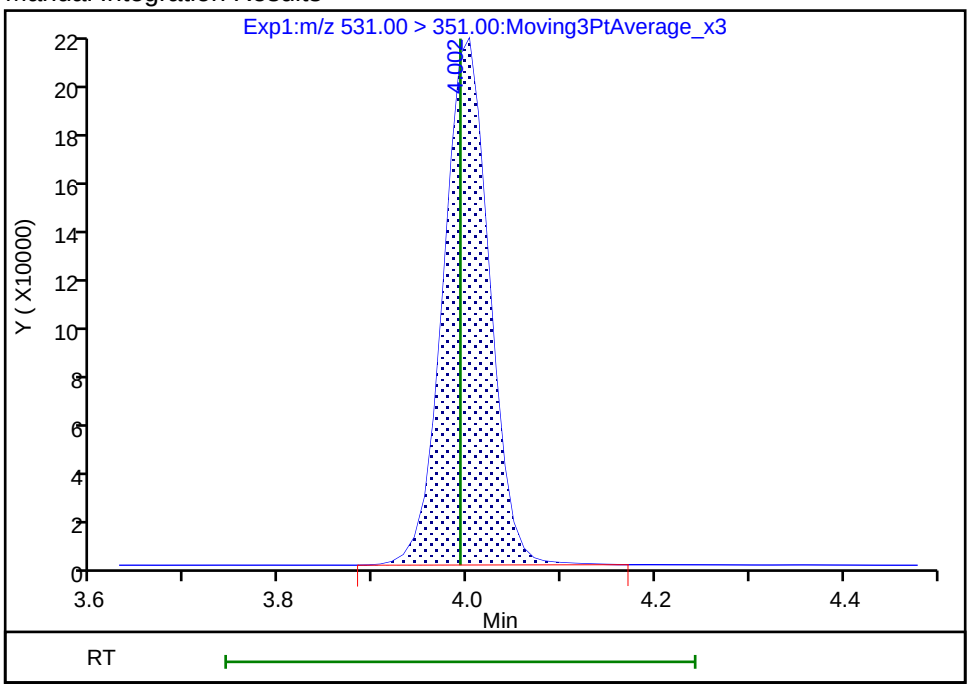
Processing Integration Results

RT: 4.00
Area: 714912
Amount: 0.880112
Amount Units: ng/ml



Manual Integration Results

RT: 4.00
Area: 714158
Amount: 0.879184
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:18:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

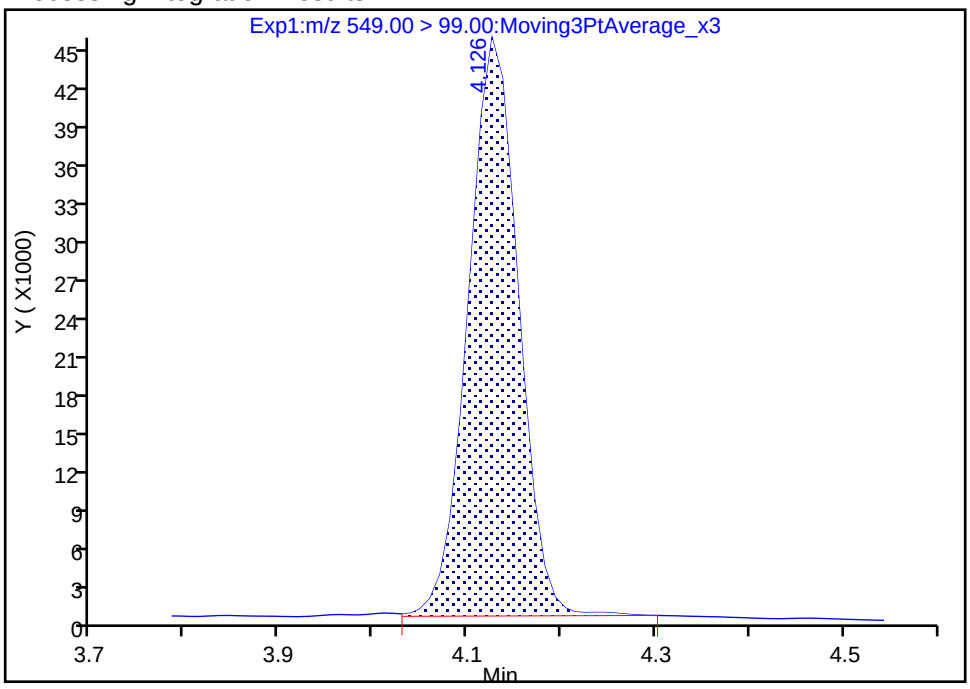
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

68 Perfluorononanesulfonic acid, CAS: 68259-12-1

Signal: 2

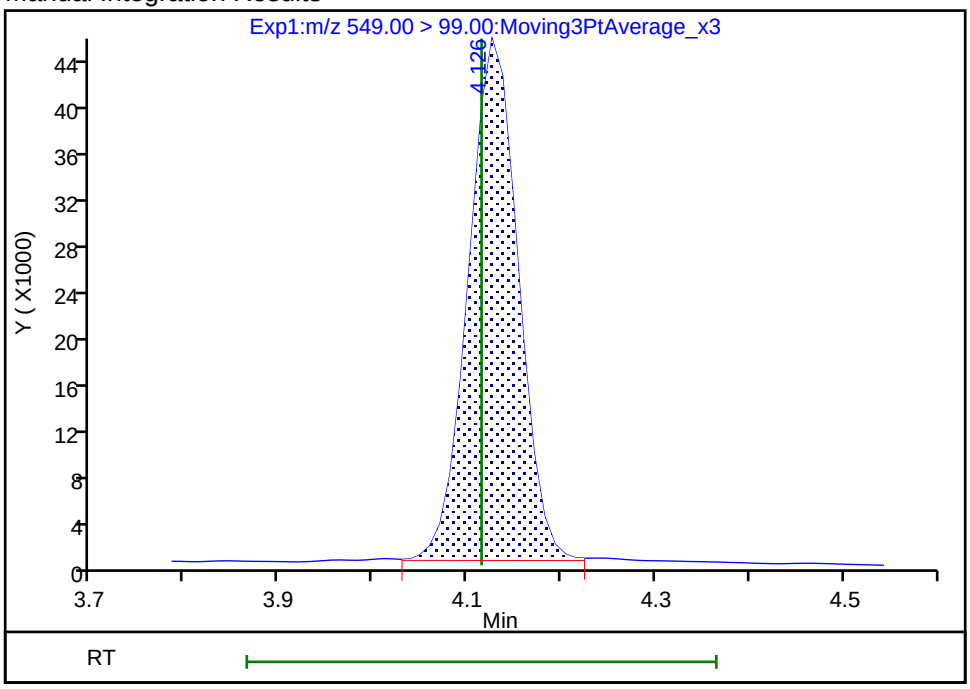
Processing Integration Results

RT: 4.13
Area: 166479
Amount: 0.974929
Amount Units: ng/ml



Manual Integration Results

RT: 4.13
Area: 164992
Amount: 0.974929
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:18:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

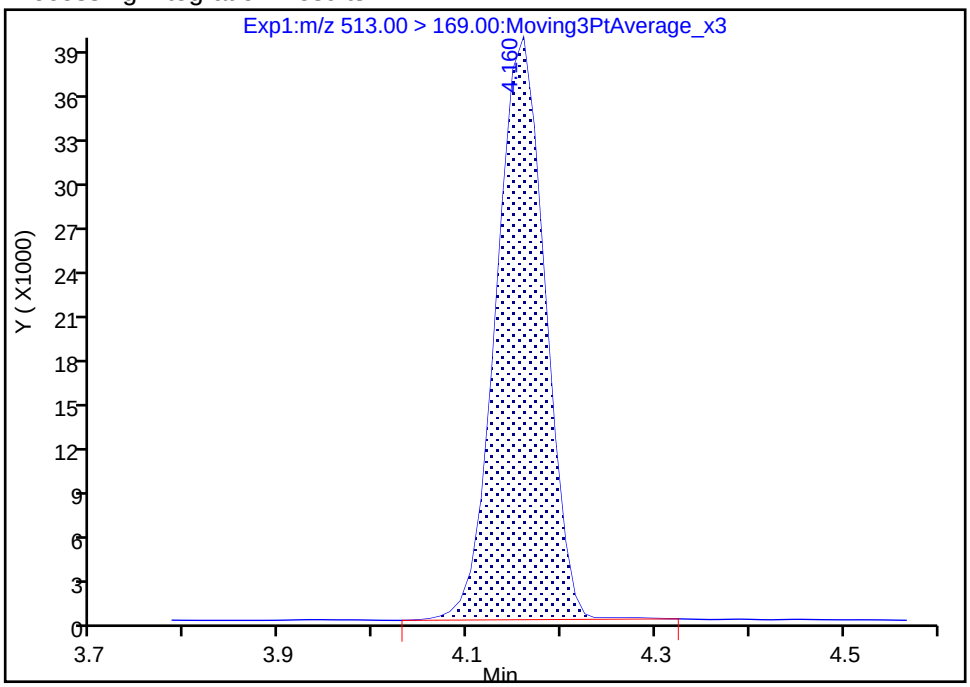
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

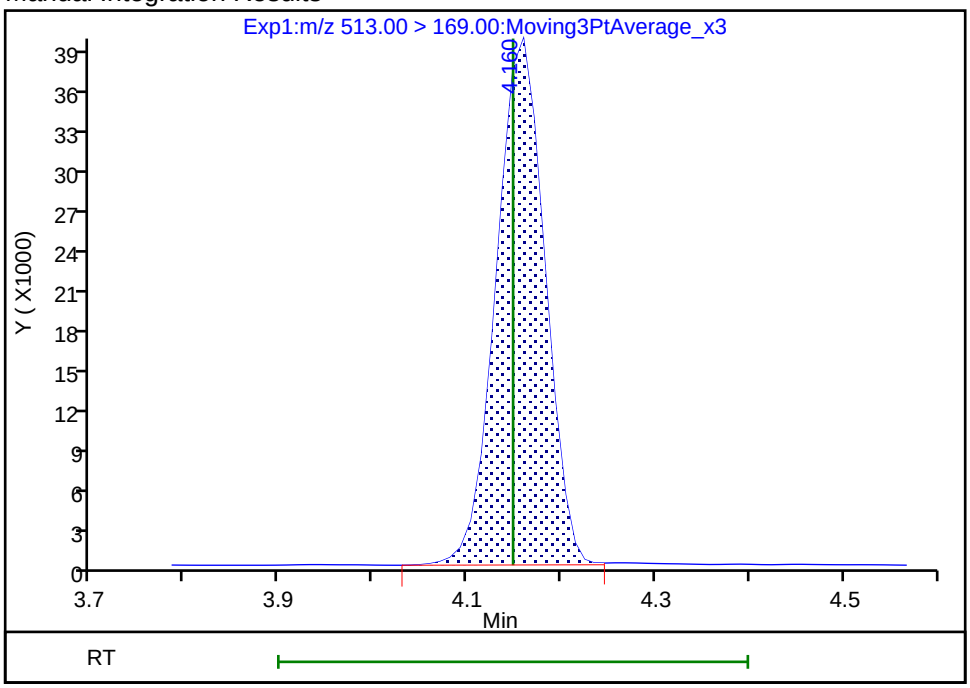
Processing Integration Results

RT: 4.16
Area: 140713
Amount: 1.017424
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 140687
Amount: 1.017424
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:18:58

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

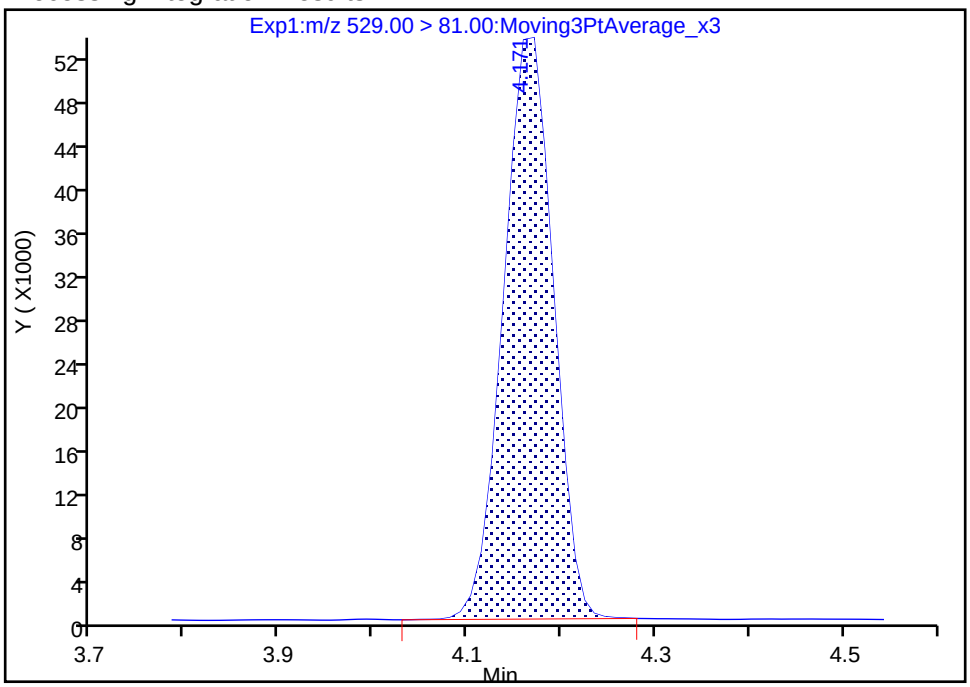
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 26 M2-8:2 FTS, CAS: STL02280

Signal: 1

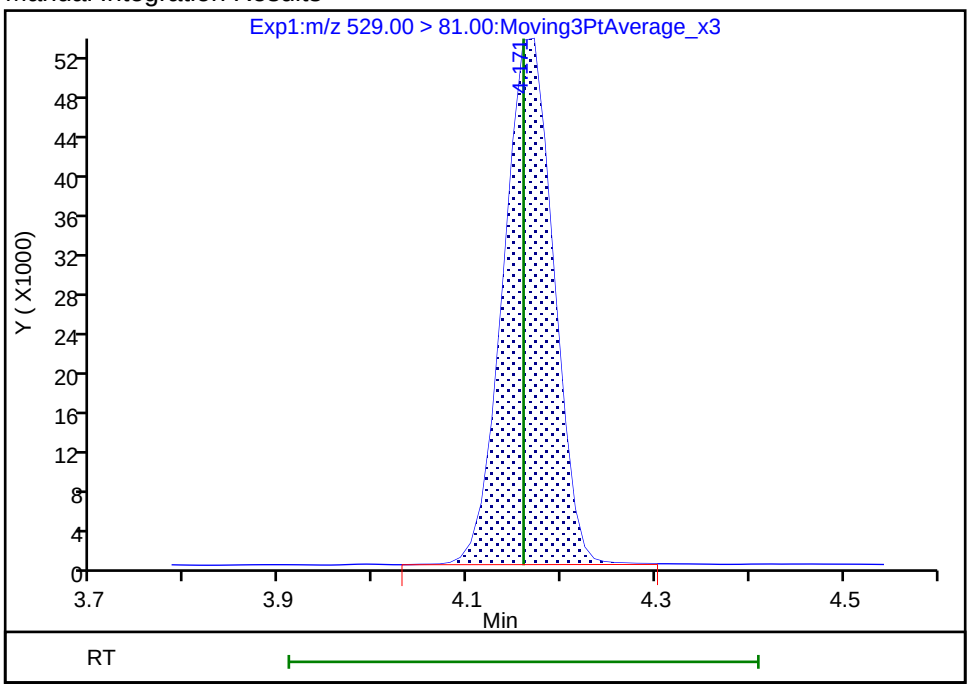
Processing Integration Results

RT: 4.17
Area: 196743
Amount: 1.284875
Amount Units: ng/ml



Manual Integration Results

RT: 4.17
Area: 197596
Amount: 1.290446
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:13:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

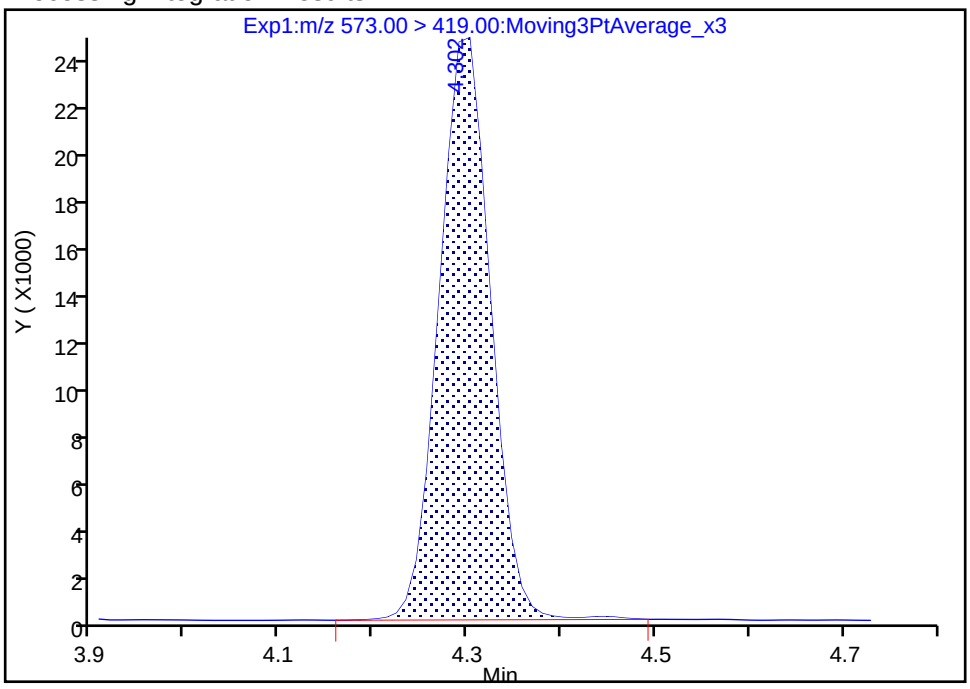
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

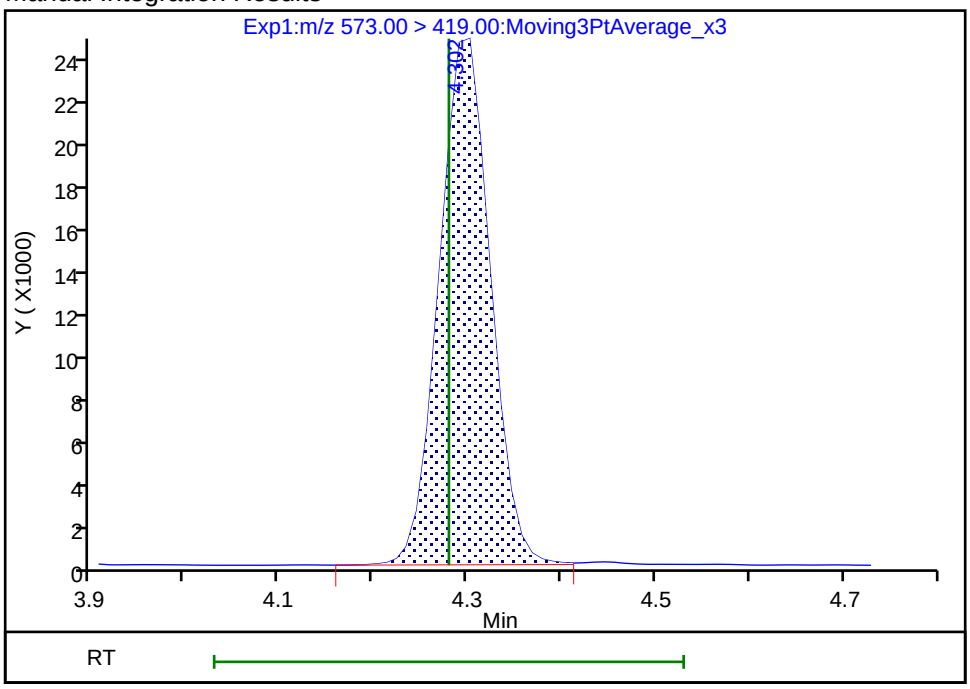
Processing Integration Results

RT: 4.30
Area: 92585
Amount: 1.163529
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 92253
Amount: 1.159356
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:13:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

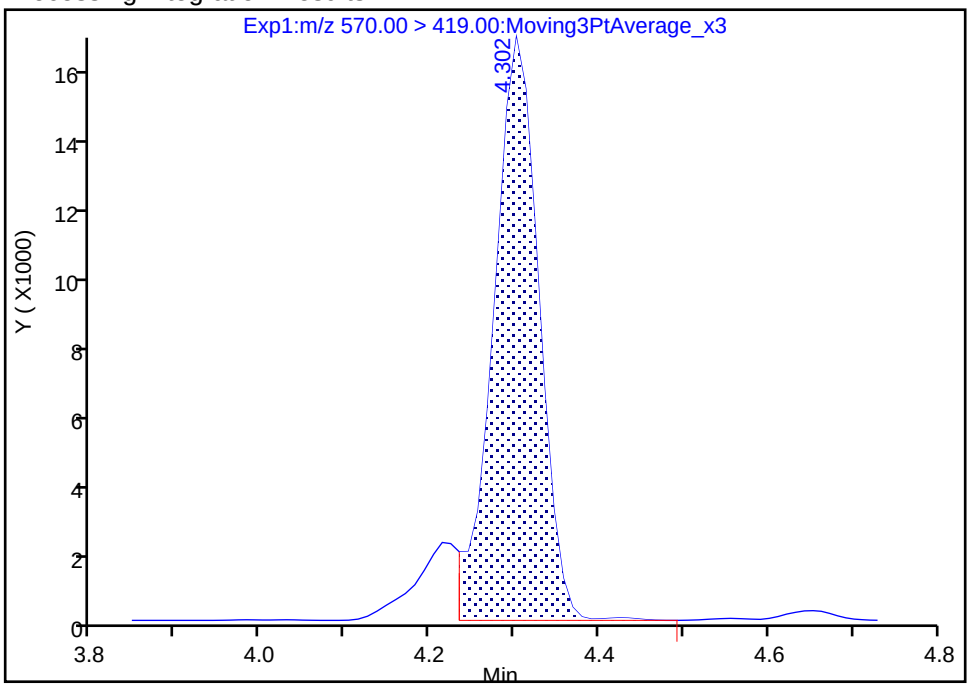
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

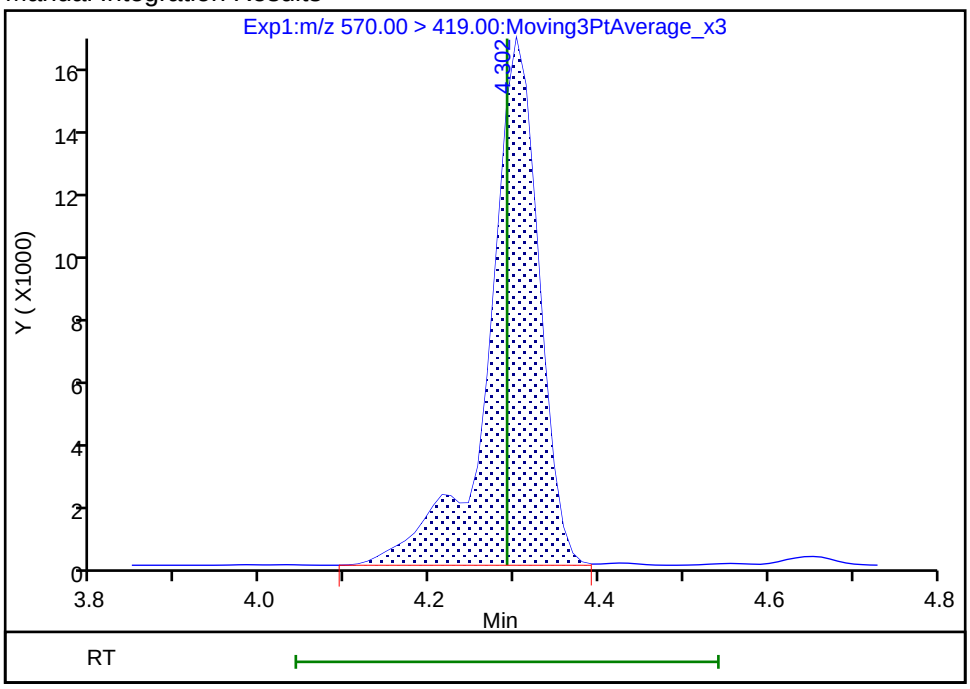
Processing Integration Results

RT: 4.30
Area: 59840
Amount: 0.975370
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 67039
Amount: 1.092711
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:19:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

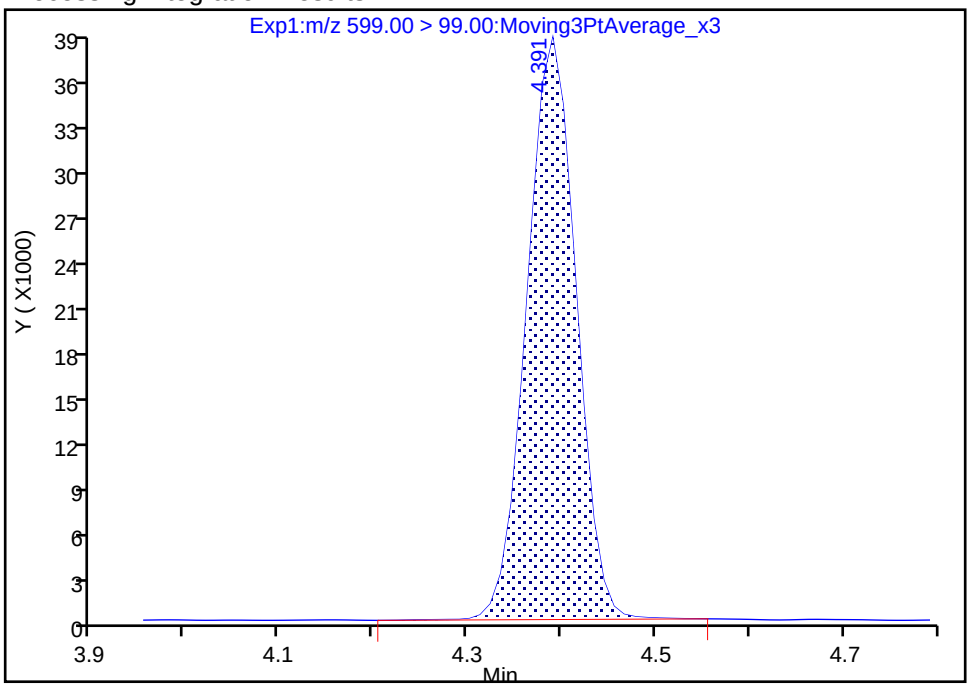
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

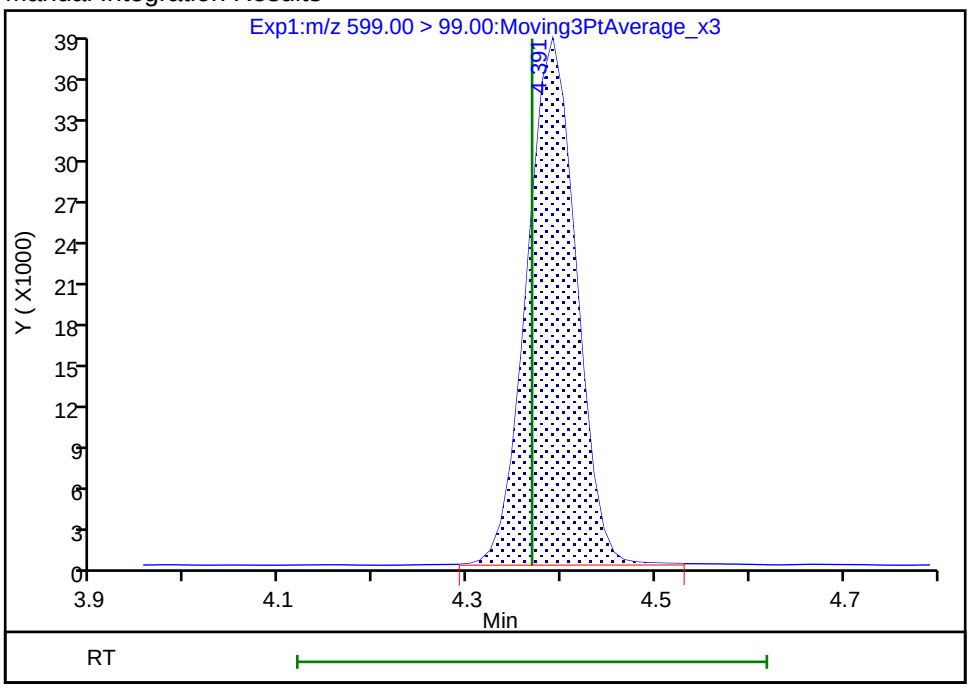
Processing Integration Results

RT: 4.39
Area: 141220
Amount: 0.933301
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 141794
Amount: 0.933301
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:19:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

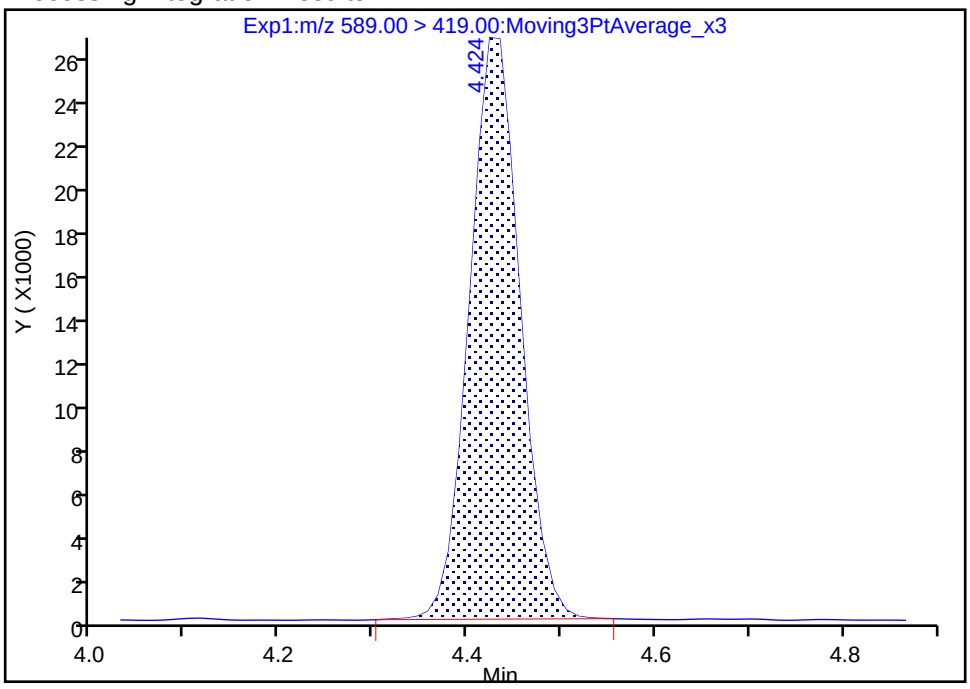
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

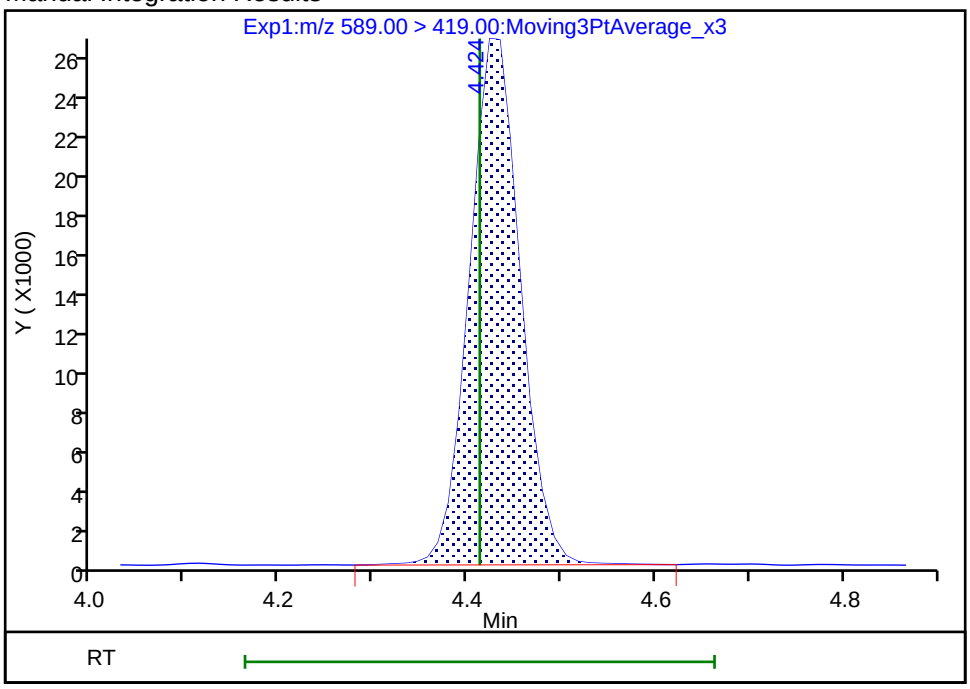
Processing Integration Results

RT: 4.42
Area: 99403
Amount: 1.200053
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 100063
Amount: 1.208021
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:13:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

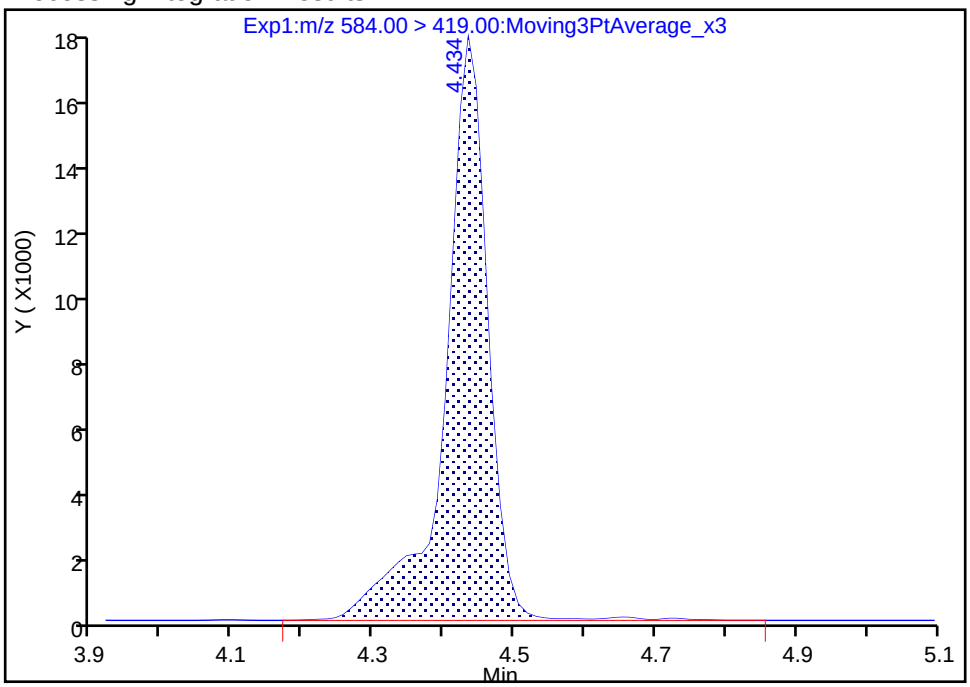
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

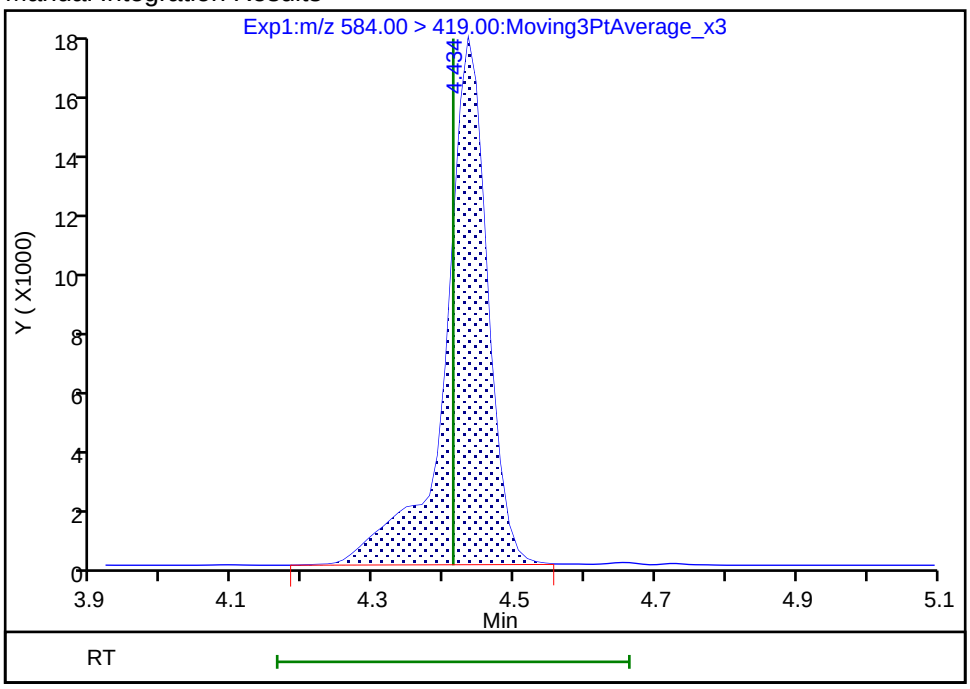
Processing Integration Results

RT: 4.43
Area: 71948
Amount: 1.060900
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 71089
Amount: 1.048234
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:19:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

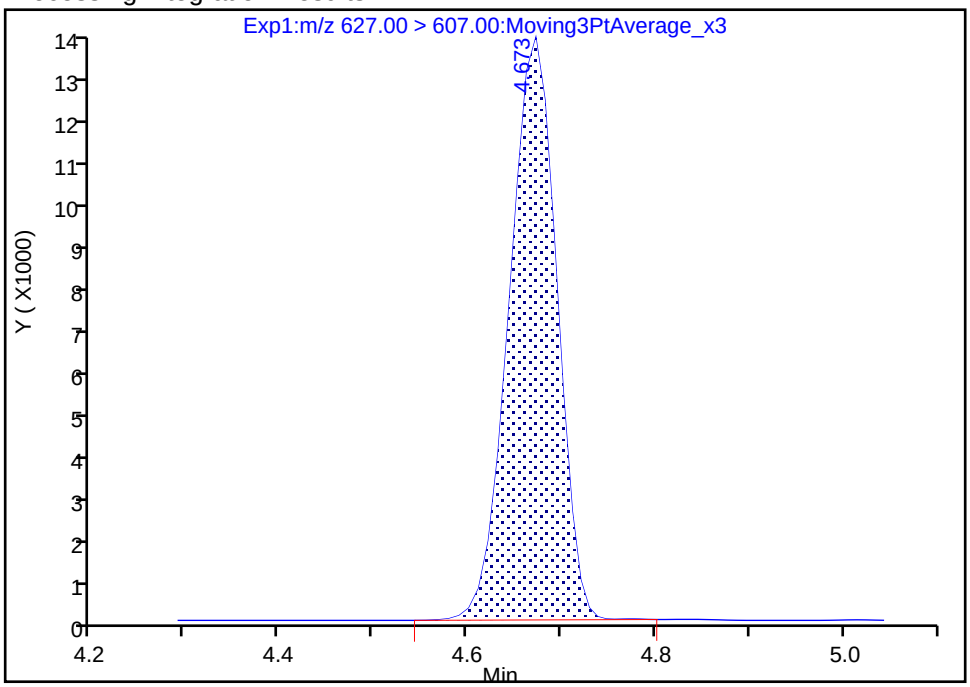
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

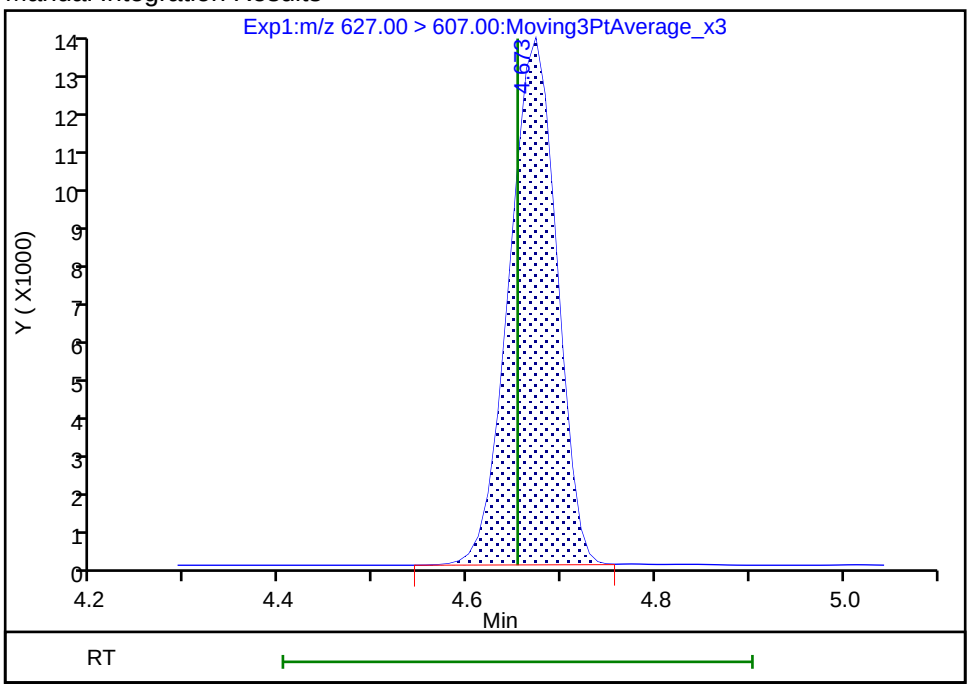
Processing Integration Results

RT: 4.67
Area: 47338
Amount: 1.137557
Amount Units: ng/ml



Manual Integration Results

RT: 4.67
Area: 47316
Amount: 1.137029
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:20:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

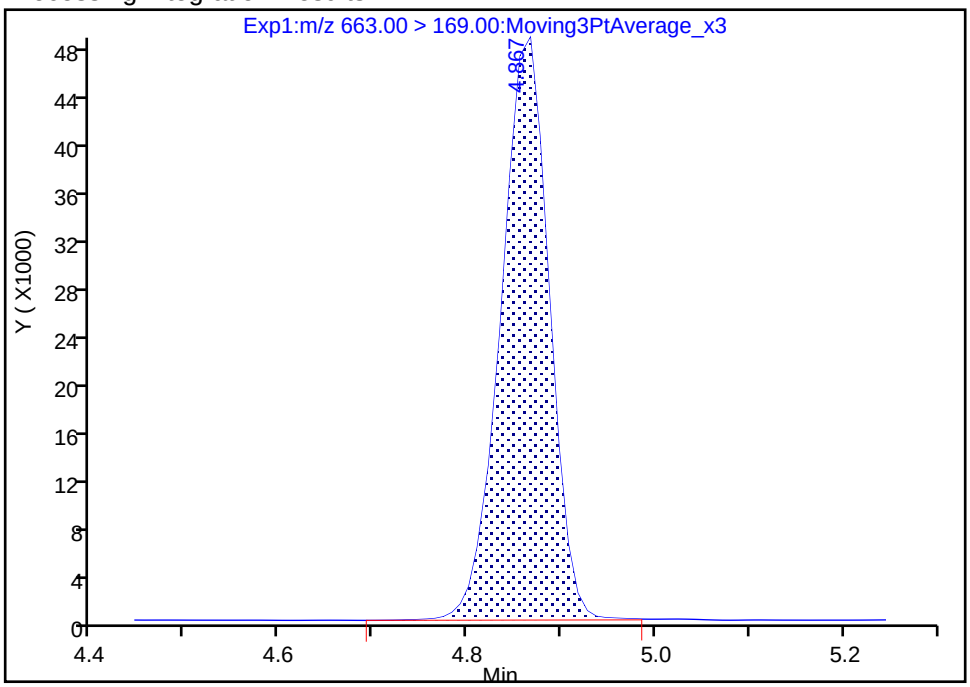
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d
Injection Date: 11-Aug-2021 15:56:05 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 24
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

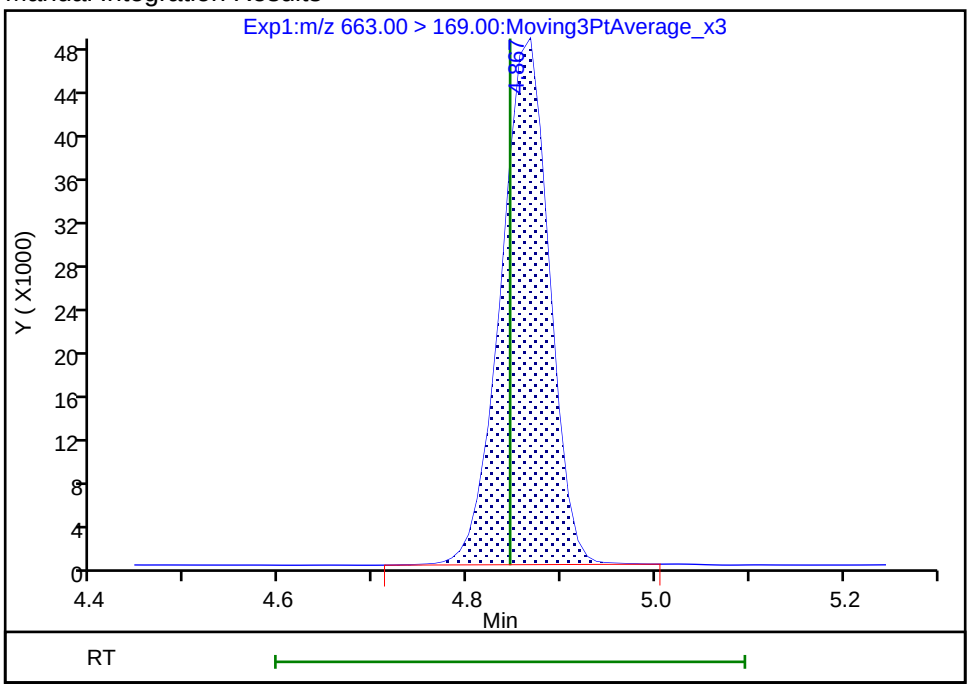
Processing Integration Results

RT: 4.87
Area: 173750
Amount: 0.963855
Amount Units: ng/ml



Manual Integration Results

RT: 4.87
Area: 173301
Amount: 0.963855
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:20:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

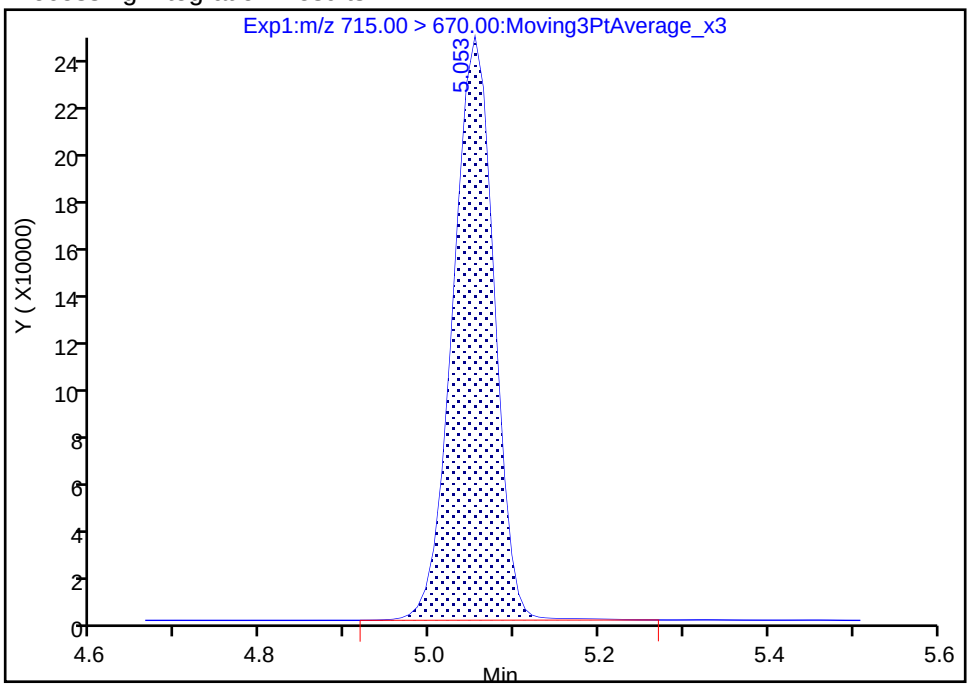
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A24.d				
Injection Date:	11-Aug-2021 15:56:05	Instrument ID:	LC812		
Lims ID:	CCV L4				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	21	Worklist Smp#:	24
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 43 13C2 PFTeDA, CAS: STL02116

Signal: 1

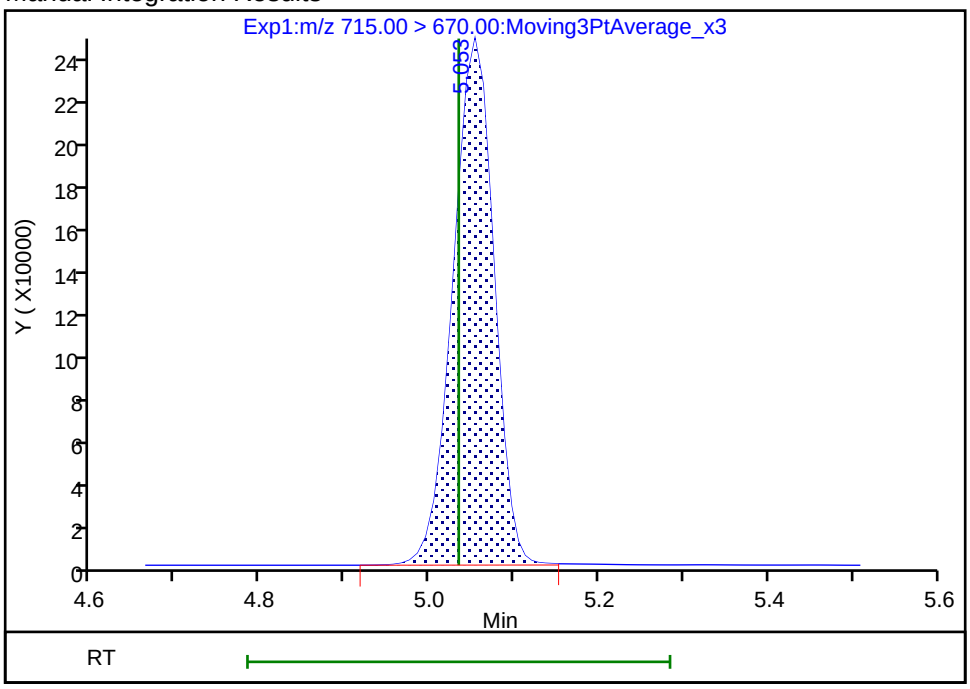
Processing Integration Results

RT: 5.05
Area: 840618
Amount: 1.208781
Amount Units: ng/ml



Manual Integration Results

RT: 5.05
Area: 838788
Amount: 1.206149
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:14:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-170043/1-A

Matrix: Water Lab File ID: PA210811A08.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 250(mL) Date Analyzed: 08/11/2021 13:43

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		5.0	0.89
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	0.42
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.323	J	2.0	0.25
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.58
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74
27619-97-2	6:2 FTS	ND		5.0	1.1
39108-34-4	8:2 FTS	ND		2.0	0.39

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 200-170043/1-A

Matrix: Water Lab File ID: PA210811A08.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 250(mL) Date Analyzed: 08/11/2021 13:43

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	89		25-150
STL00992	13C4 PFBA	95		25-150
STL01893	13C5 PFPeA	102		25-150
STL00993	13C2 PFHxA	107		50-150
STL01892	13C4 PFHpA	105		50-150
STL00990	13C4 PFOA	105		50-150
STL00995	13C5 PFNA	104		50-150
STL00996	13C2 PFDA	103		50-150
STL00997	13C2 PFUnA	97		50-150
STL00998	13C2 PFDoA	95		50-150
STL02116	13C2 PFTeDA	92		50-150
STL02337	13C3 PFBS	110		50-150
STL00994	18O2 PFHxS	104		50-150
STL00991	13C4 PFOS	102		50-150
STL02118	d3-NMeFOSAA	102		50-150
STL02117	d5-NEtFOSAA	97		50-150
STL02279	M2-6:2 FTS	105		25-150
STL02280	M2-8:2 FTS	107		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d
Lims ID: MB 200-170043/1-A
Client ID:
Sample Type: MB
Inject. Date: 11-Aug-2021 13:43:34 ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: MB 200-170043/1-A
Misc. Info.: 200-0047128-008 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:31:39 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 09:15:43
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	2.109	2.082	0.027	0.599	1493660	1.19		95.4	11357	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.100	2.082	0.018	0.996	22169	0.0193			2.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.693	1210884	1.28		102	3289	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.452	2.413	0.039	1.005	2008	0.002003			0.2	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.452	2.426	0.026	0.697	1279359	1.27		110	457893	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.466	2.426	0.040	1.005	9602	0.008078	Target=2.20		27.8	M
298.90 > 99.00	2.466	2.426	0.040	1.005	3999		2.40(1.10-3.30)		3.3	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.758	2.734	0.024	1.000	159	0.000888			2.6	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.758	2.734	0.024	0.784	108369	1.31		112	160	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.795	2.782	0.013	0.794	1390723	1.33		107	3021	
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.795	2.782	0.013	1.000	2722	0.002432	Target=12.93		0.9	RM
313.00 > 119.00	2.782	2.782	0.0	0.996	742		3.67(6.46-19.39)		2.1	M
70 Perfluoropentanesulfonic acid										RM
349.00 > 80.00	2.795	2.782	0.013	0.883	359	0.000352	Target=3.71		1.9	RM
349.00 > 99.00	2.770	2.782	-0.012	0.875	259		1.39(1.85-5.56)		0.6	M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.902	2.892	0.010	0.825	179963	1.60		128	2012	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.902	2.892	0.010	1.000	584	0.002453			0.3	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.164	3.154	0.010	0.899	980870	1.23		104	2361	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.164	3.154	0.010	1.000	4680	0.004876	Target=4.48		28.5	M
399.00 > 99.00	3.164	3.154	0.010	1.000	1265		3.70(2.24-6.72)		2.0	M
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.164	3.154	0.010	1.000	1039	0.000915	Target=3.68		0.4	RM
363.00 > 169.00	3.175	3.154	0.021	1.003	662		1.57(1.84-5.53)		2.7	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.154	0.010	0.899	1372203	1.31		105	2249	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	138369	1.25		105	579	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.510	3.510	0.0	1.000	66	0.000547			2.1	M
D 14 13C4 PFOA										M
417.00 > 372.00	3.519	3.519	0.0	1.000	1412307	1.31		105	2075	M
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1367960	1.25			3045	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.519	3.519	0.0	1.000	3385	0.002847	Target=2.67		1.5	RM
413.00 > 169.00	3.528	3.519	0.009	1.003	784		4.32(1.33-4.00)		3.7	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	712798	1.22		102	3935	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.824	3.836	-0.012	0.997	2309	0.003454	Target=6.69		1.8	RM
499.00 > 99.00	3.824	3.836	-0.012	0.997	1267		1.82(3.34-10.03)		2.1	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.858	3.858	0.0	1.097	1335807	1.30		104	3275	M
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.858	3.858	0.0	1.000	1592	0.001541	Target=7.21		0.8	RM
463.00 > 169.00	3.836	3.858	-0.022	0.994	72		22.11(3.60-10.81)		1.3	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	4.011	3.992	0.019	1.046	314	0.000430			4.9	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.126	4.115	0.011	1.076	574	0.001160	Target=3.20		4.0	M
549.00 > 99.00	4.104	4.115	-0.011	1.070	321		1.79(1.60-4.80)		1.8	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.148	4.148	0.0	1.179	1200250	1.29		103	3473	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.148	4.148	0.0	1.000	1243	0.001216	Target=8.42		1.6	M
513.00 > 169.00	4.137	4.148	-0.011	0.997	212		5.86(4.21-12.63)		2.2	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.182	169128	1.28		107	681	
D 21 13C8 FOSA										
506.00 > 78.00	4.235	4.224	0.011	1.203	1140125	1.11		88.8	2137	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.235	4.224	0.011	1.000	1612	0.001807			10.6	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.291	4.280	0.011	1.219	87150	1.27		102	968	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.280	4.291	-0.011	0.997	44	0.000759			0.3	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.254	897943	1.22		97.3	3865	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.413	4.402	0.011	1.000	1032	0.001485	Target=7.70		1.7	M
563.00 > 169.00	4.413	4.402	0.011	1.000	159		6.49(3.85-11.56)		2.3	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.413	0.011	1.257	86522	1.21		97.1	757	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.380	4.413	-0.033	0.990	189	0.003223			3.2	M
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.531	4.492	0.039	1.181	164	0.000272			4.9	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.643	4.632	0.011	1.319	904948	1.19		94.8	3296	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.643	4.632	0.011	1.000	1334	0.001825	Target=6.31		0.6	RM
613.00 > 169.00	4.643	4.632	0.011	1.000	91		14.66(3.15-9.46)		2.6	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.643	4.653	-0.010	1.116	31	0.000870			1.9	M
75 Perfluorododecanesulfonic acid (										RM
699.00 > 80.00	4.822	4.810	0.012	1.257	203	0.001579	Target=0.45		0.9	RM
699.00 > 99.00	4.792	4.810	-0.018	1.249	34		5.97(0.23-0.68)		0.8	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.845	4.845	0.0	1.044	1016	0.001613	Target=4.61		0.5	M
663.00 > 169.00	4.845	4.845	0.0	1.044	173		5.87(2.31-6.92)		3.1	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.043	5.034	0.009	1.433	687111	1.15		91.9	3285	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.034	5.034	0.0	0.998	82	0.000868	Target=1.00		1.9	M
713.00 > 219.00	5.024	5.034	-0.010	0.996	70		1.17(0.50-1.51)		2.3	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.383	5.383	0.0	1.530	739383	1.21		97.1	2461	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.394	5.383	0.011	1.002	6194	0.000921	Target=4.32		4.9	
813.00 > 169.00	5.394	5.383	0.011	1.002	1588		3.90(2.16-6.48)		22.9	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.701	5.710	-0.009	1.059	419	0.000837	Target=3.72		0.6	M
913.00 > 169.00	5.719	5.710	0.009	1.063	161		2.60(1.86-5.58)		3.7	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:31:51 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d

Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812

Lims ID: MB 200-170043/1-A

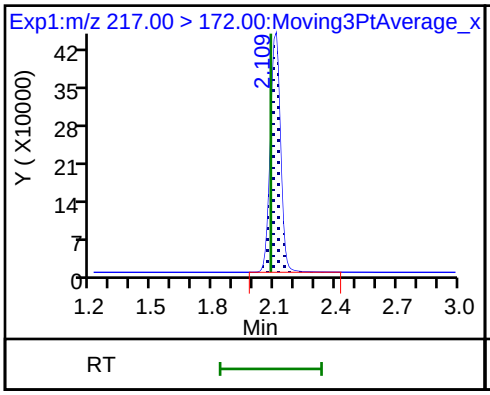
Client ID:

Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8

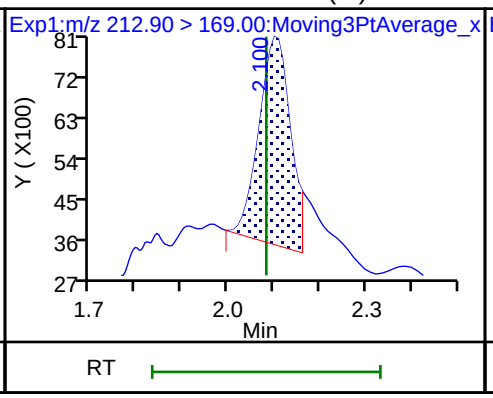
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

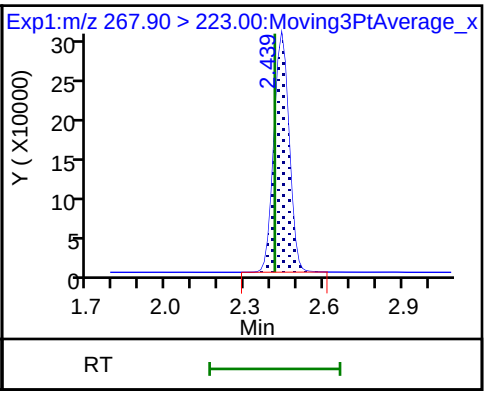
D 1 13C4 PFBA



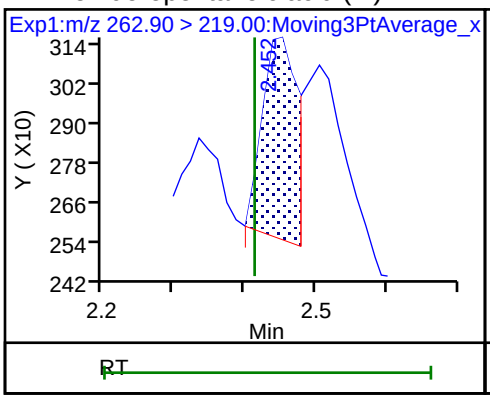
2 Perfluorobutanoic acid (M)



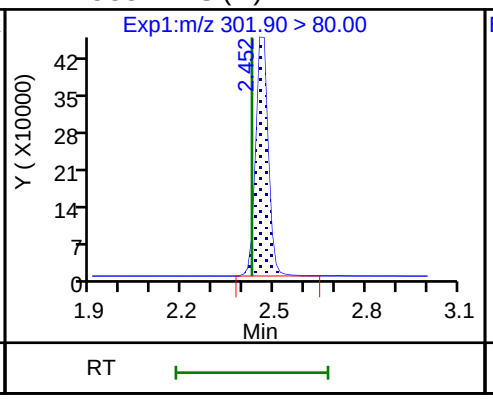
D 3 13C5 PFPeA



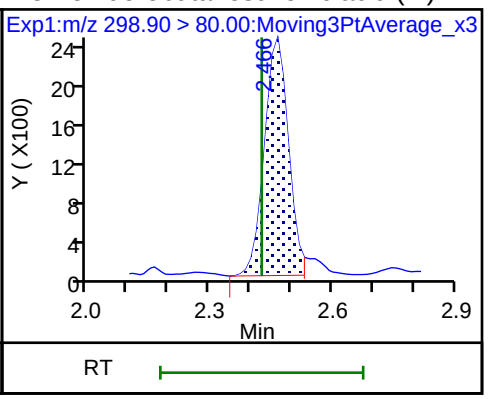
4 Perfluoropentanoic acid (M)



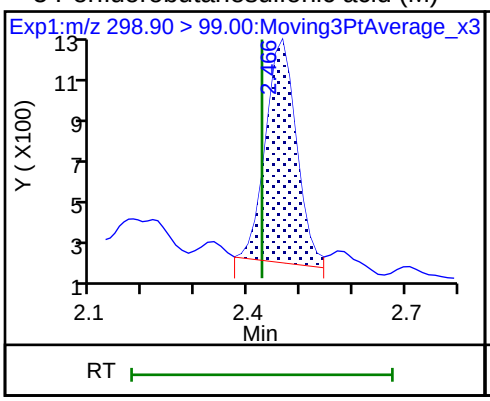
D 47 13C3 PFBS (M)



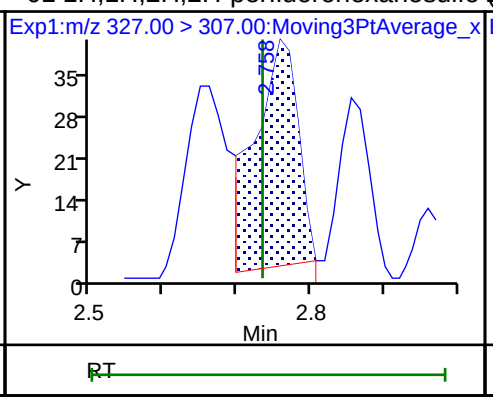
5 Perfluorobutanesulfonic acid (M)



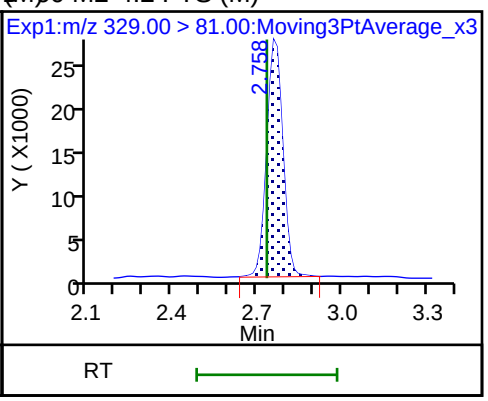
5 Perfluorobutanesulfonic acid (M)



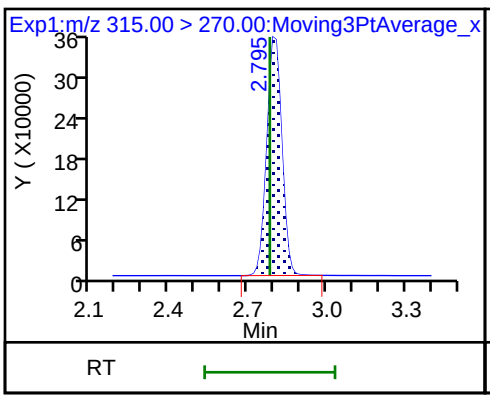
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



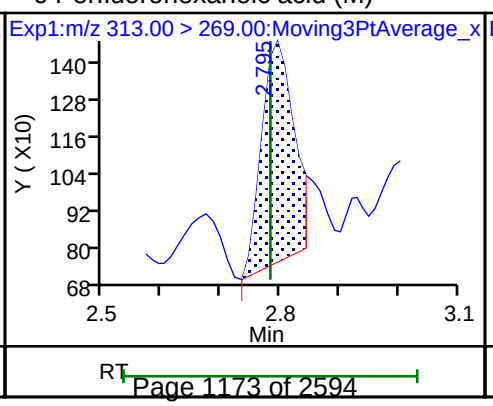
60 M2-4:2 FTS (M)



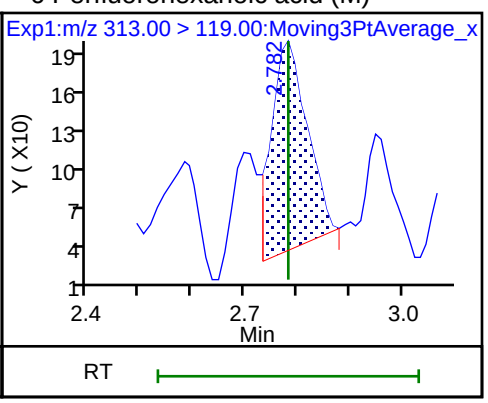
D 7 13C2 PFHxA



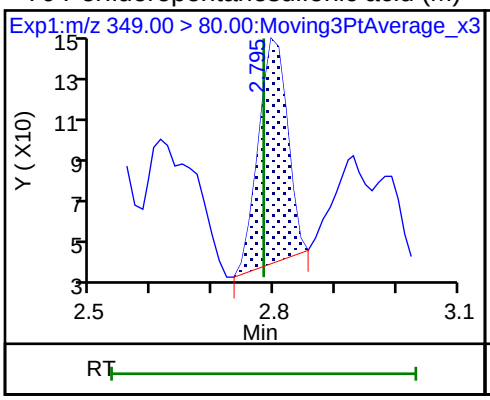
6 Perfluorohexanoic acid (M)



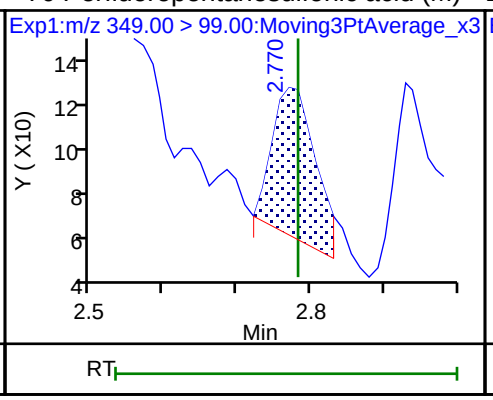
6 Perfluorohexanoic acid (M)



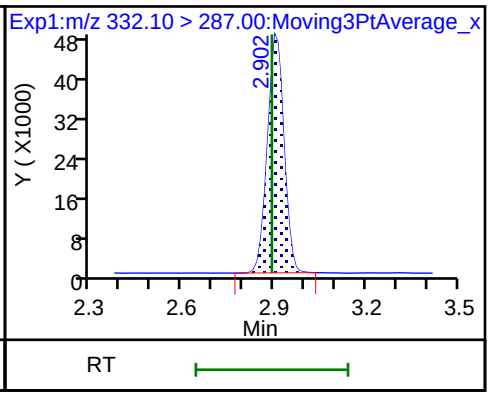
70 Perfluoropentanesulfonic acid (M)



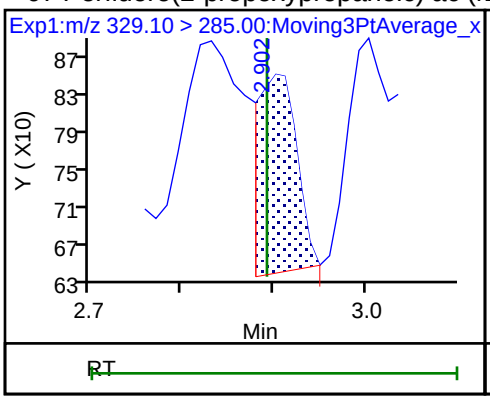
70 Perfluoropentanesulfonic acid (M)



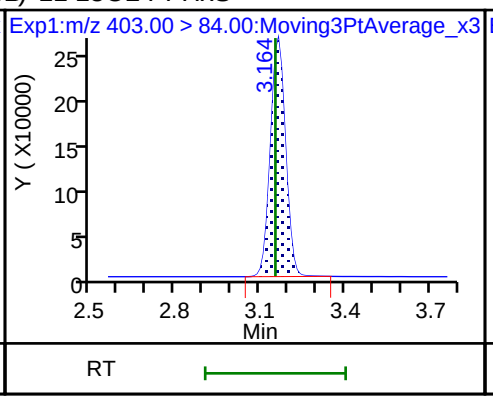
D 64 13C3 HFPO-DA



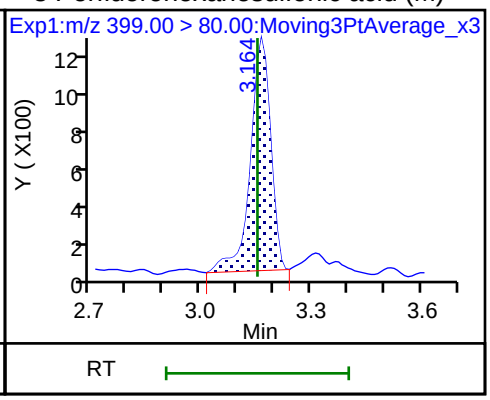
67 Perfluoro(2-propoxypropanoic) ac (M)



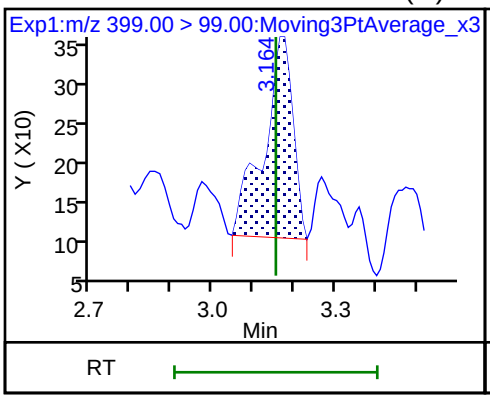
D 11 18O2 PFHxS



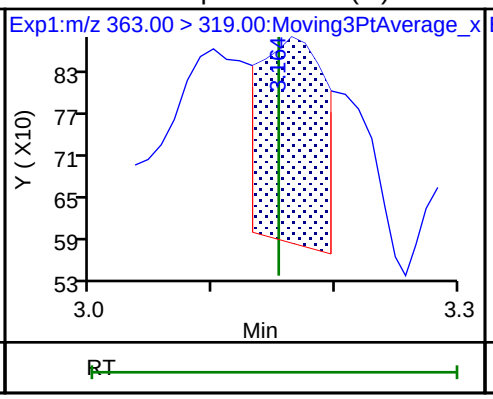
8 Perfluorohexanesulfonic acid (M)



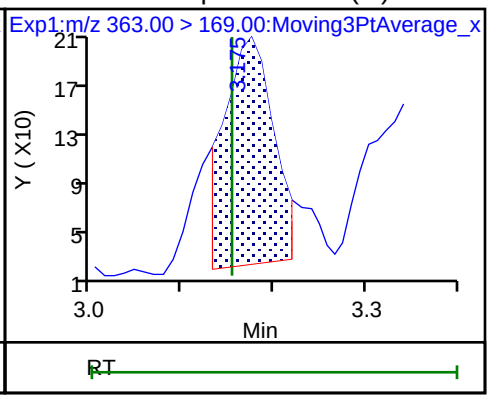
8 Perfluorohexanesulfonic acid (M)



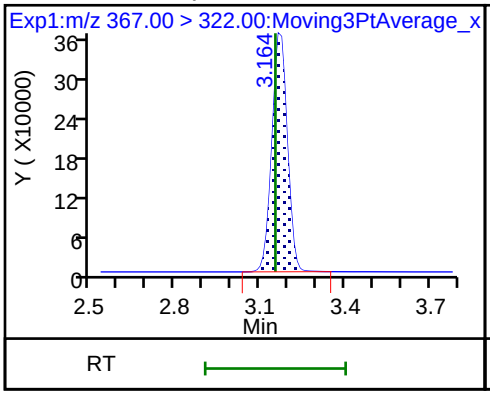
10 Perfluoroheptanoic acid (M)



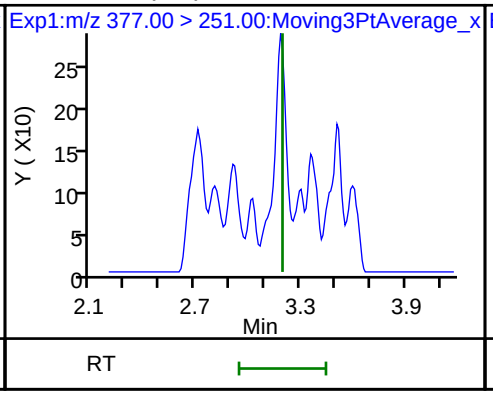
10 Perfluoroheptanoic acid (M)



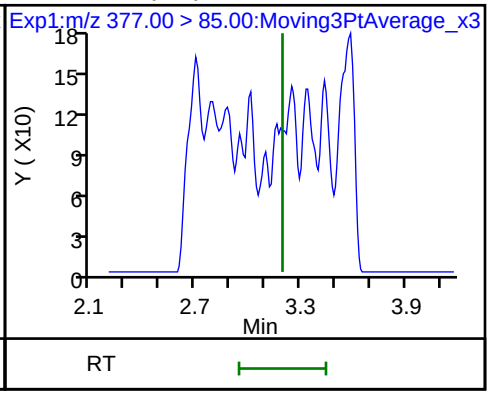
D 9 13C4 PFHpA



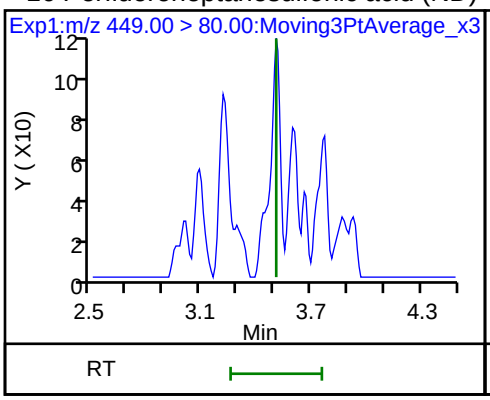
77 DONA (ND)



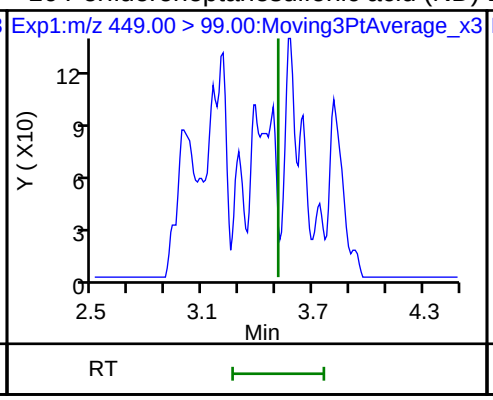
77 DONA (ND)



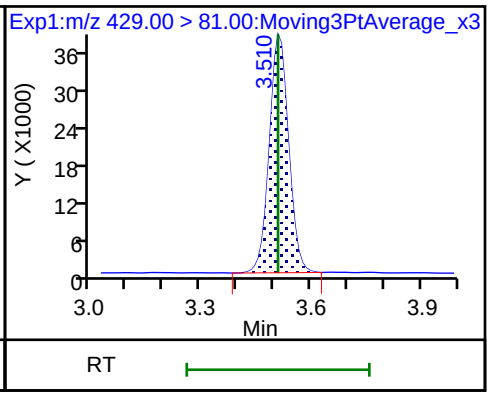
16 Perfluoroheptanesulfonic acid (ND)



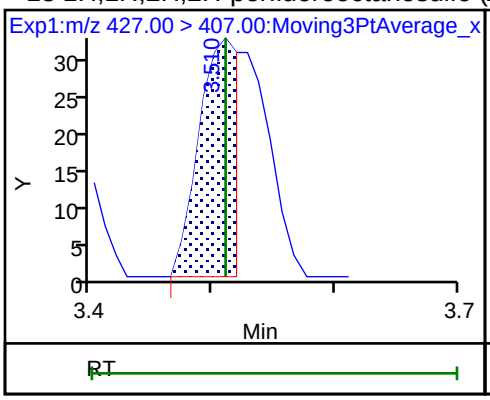
16 Perfluoroheptanesulfonic acid (ND)



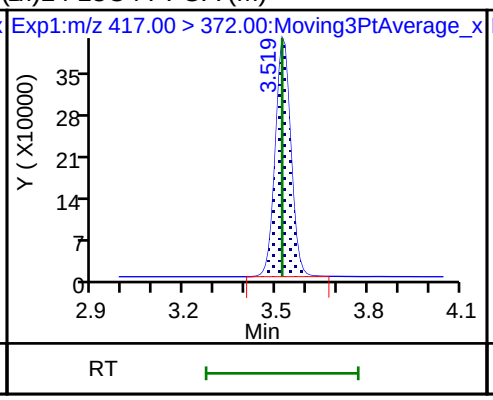
D 12 M2-6:2 FTS



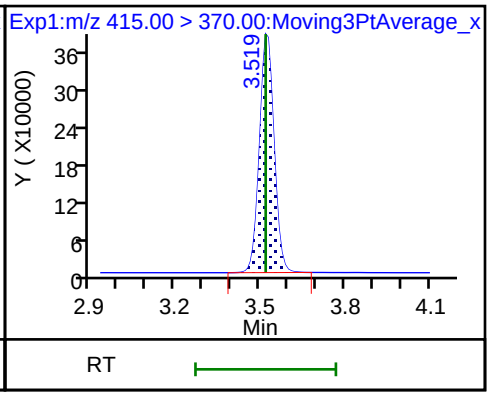
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



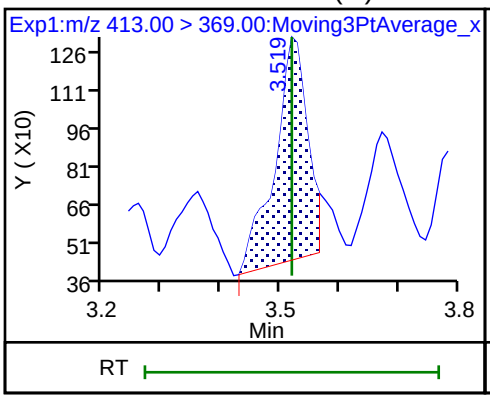
14 13C4 PFOA (M)



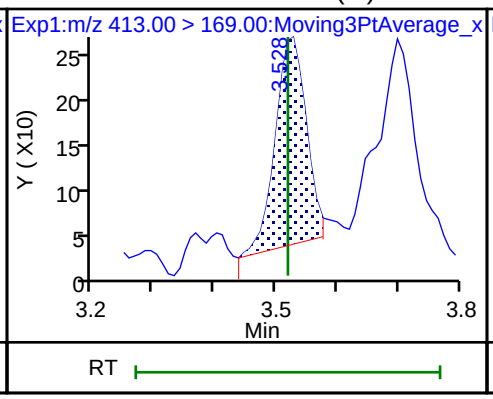
* 62 13C2 PFOA



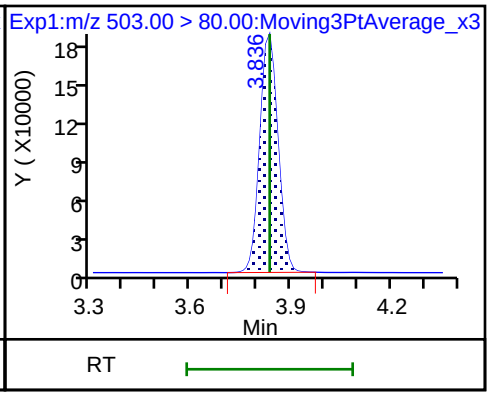
15 Perfluorooctanoic acid (M)



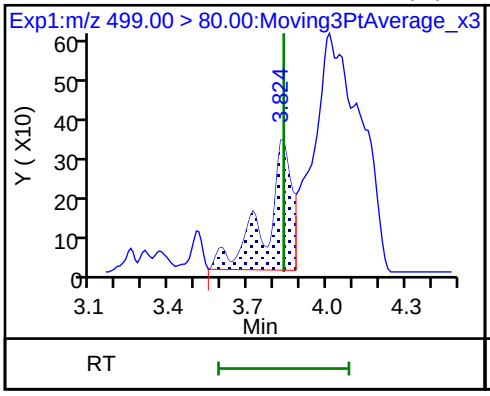
15 Perfluorooctanoic acid (M)



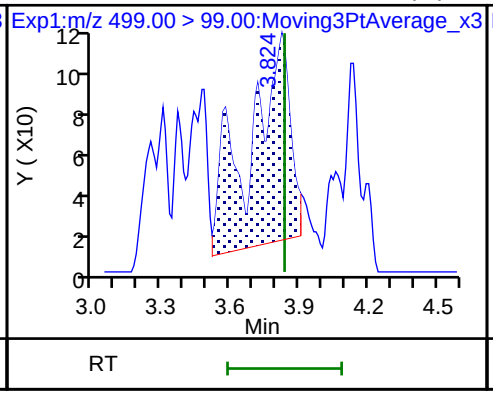
D 18 13C4 PFOS



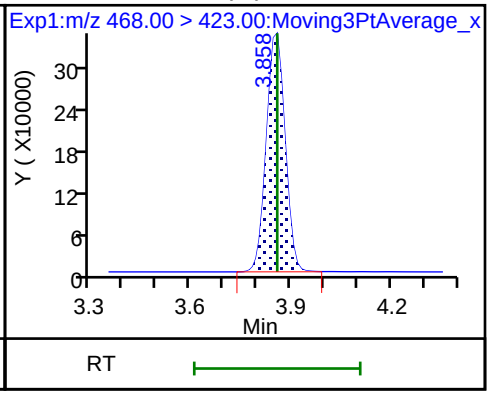
17 Perfluorooctanesulfonic acid (M)



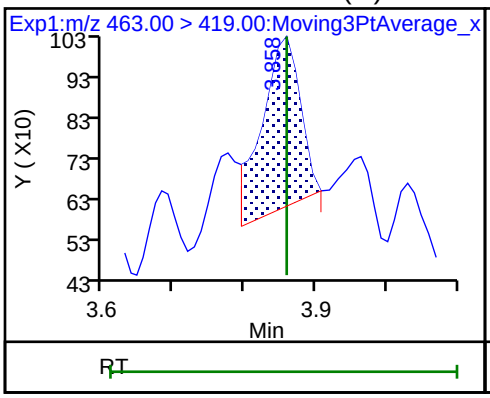
17 Perfluorooctanesulfonic acid (M)



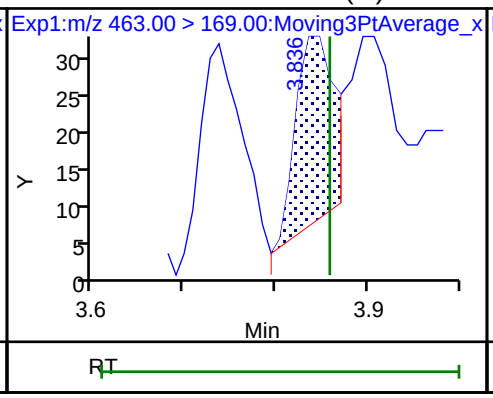
D 19 13C5 PFNA (M)



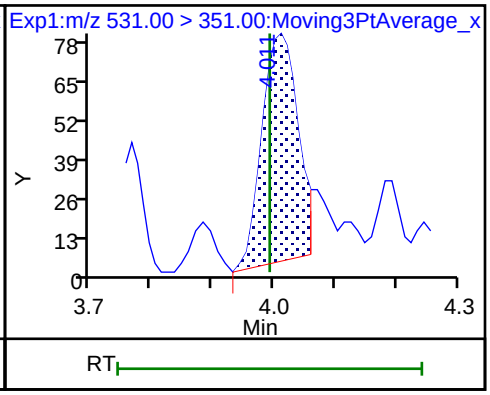
20 Perfluorononanoic acid (M)



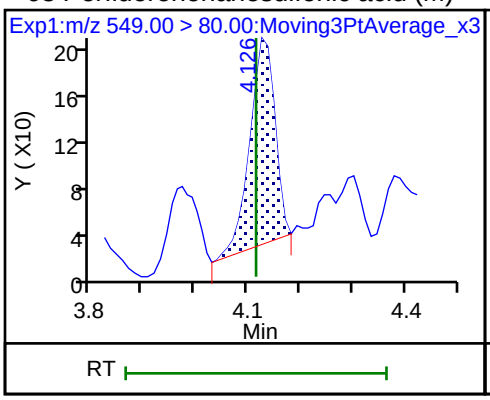
20 Perfluorononanoic acid (M)



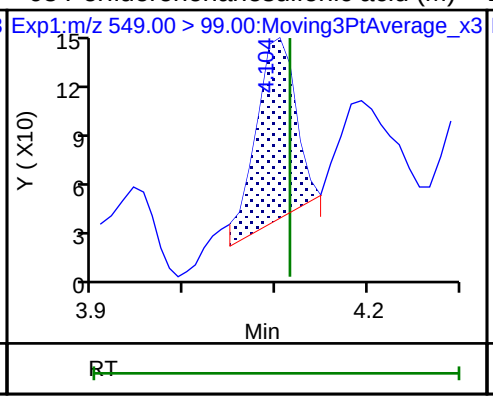
69 9-Chlorohexadecafluoro-3-oxanona (M)



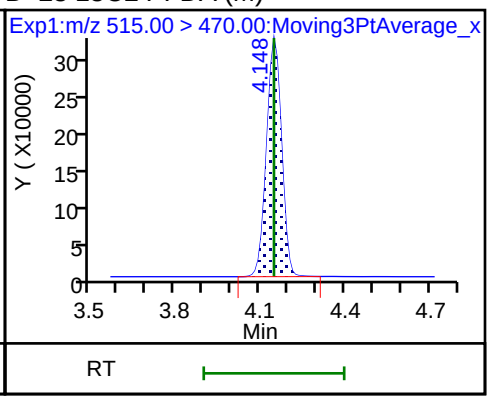
68 Perfluorononanesulfonic acid (M)



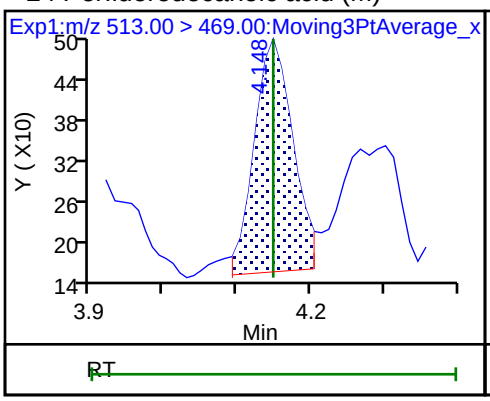
68 Perfluorononanesulfonic acid (M)



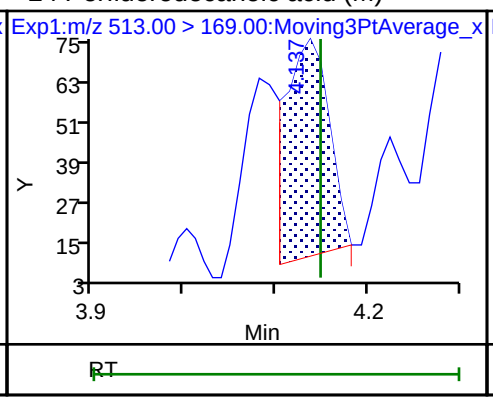
D 23 13C2 PFDA (M)



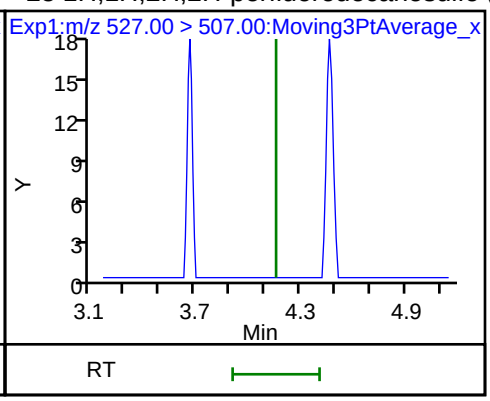
24 Perfluorodecanoic acid (M)



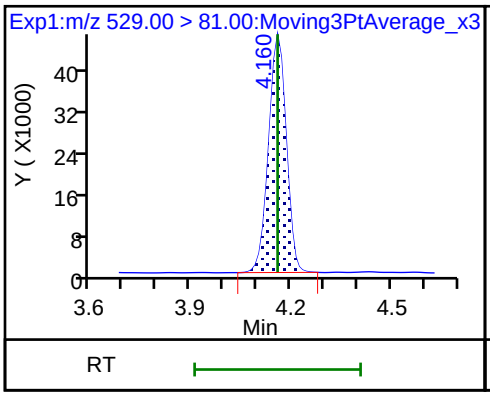
24 Perfluorodecanoic acid (M)



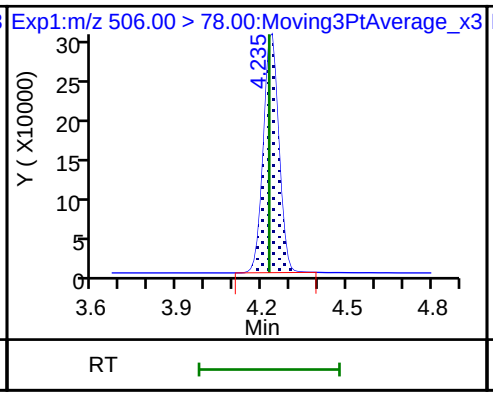
25 1H,1H,2H,2H-perfluorodecanesulfo (ND)



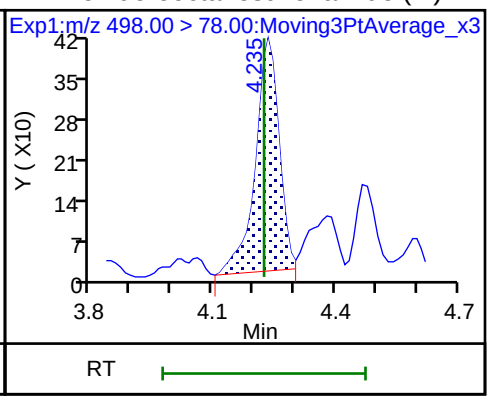
D 26 M2-8:2 FTS



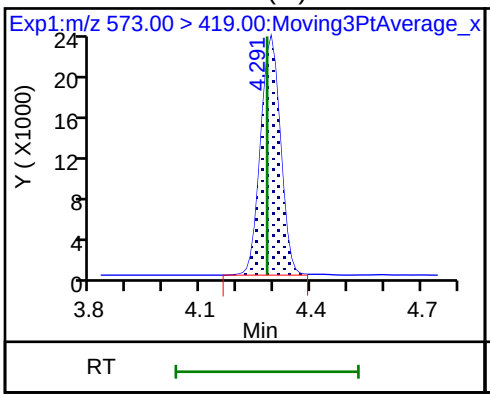
D 21 13C8 FOSA



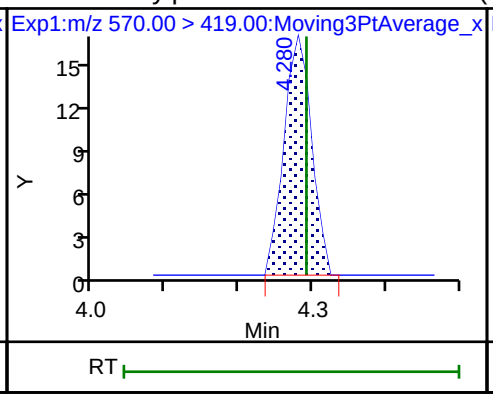
22 Perfluorooctanesulfonamide (M)



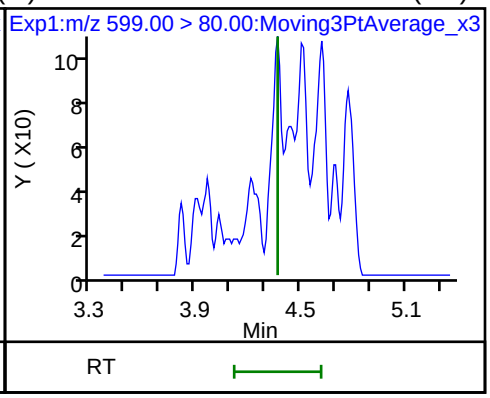
D 27 d3-NMeFOSAA (M)



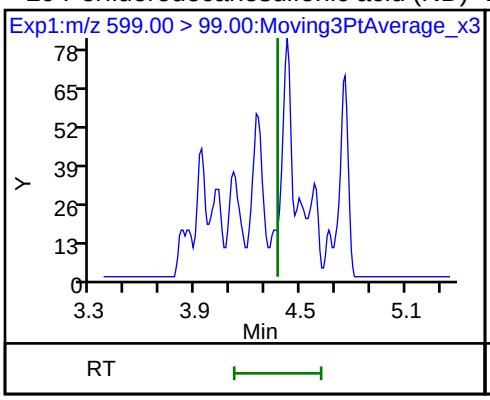
28 N-methylperfluorooctanesulfonami (M)



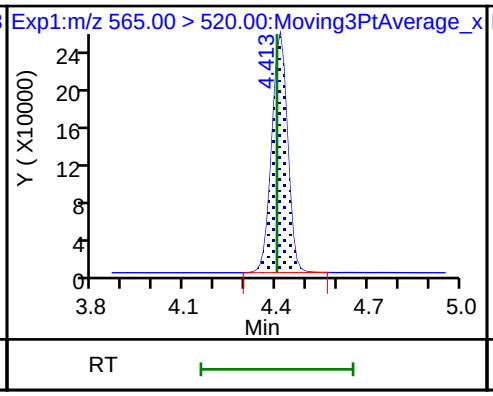
29 Perfluorodecanesulfonic acid (ND)



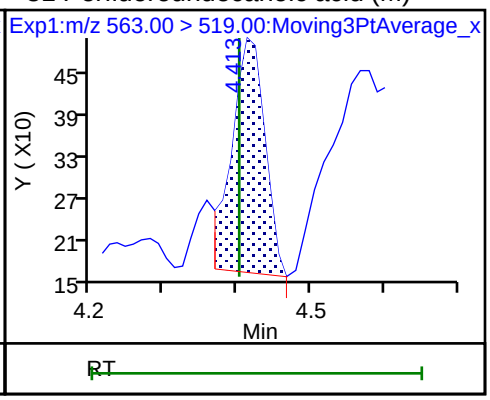
29 Perfluorodecanesulfonic acid (ND)



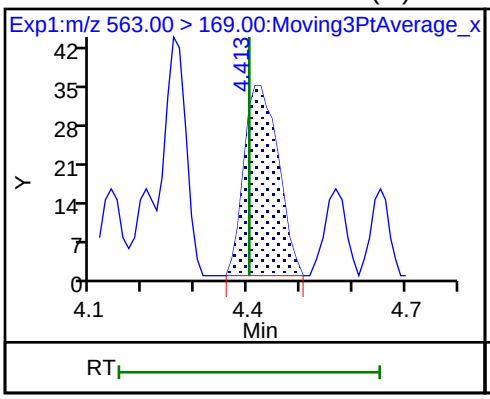
D 30 13C2 PFUnA



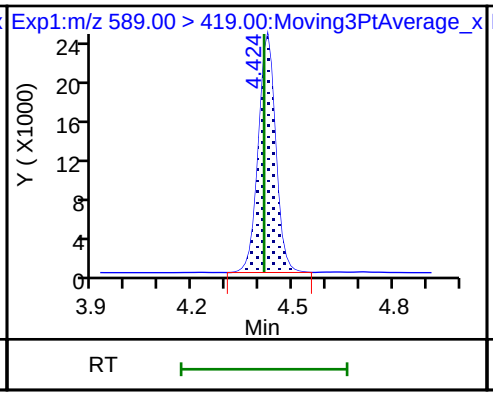
31 Perfluoroundecanoic acid (M)



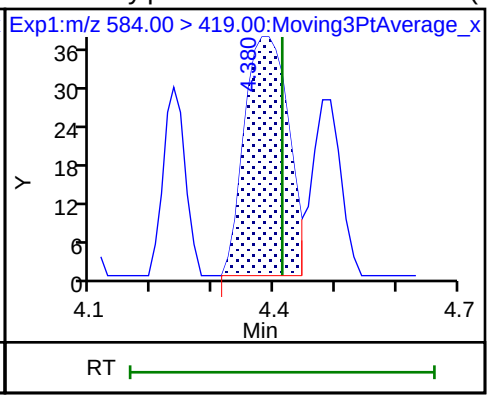
31 Perfluoroundecanoic acid (M)



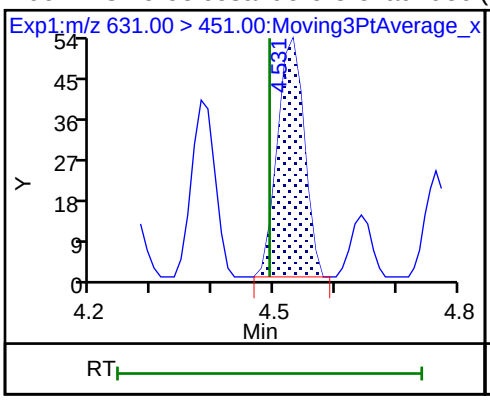
D 32 d5-NEtFOSAA



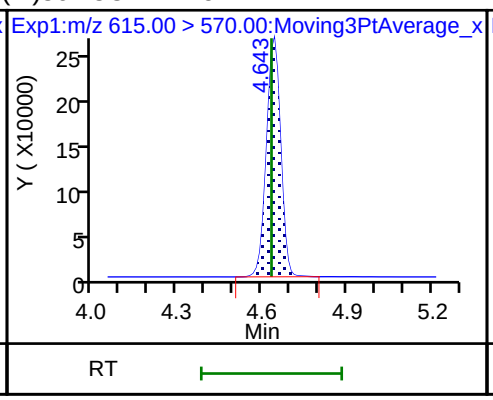
33 N-ethylperfluorooctanesulfonamid (M)



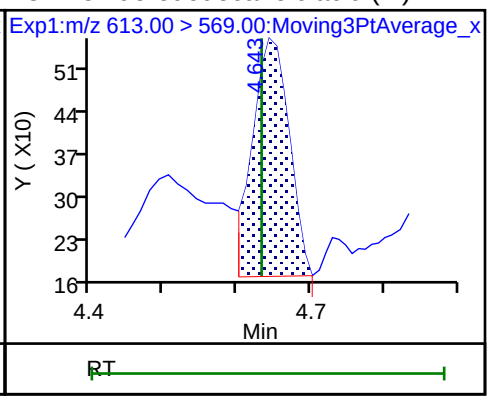
66 11-Chloroeicosafluoro-3-oxaundec (M)



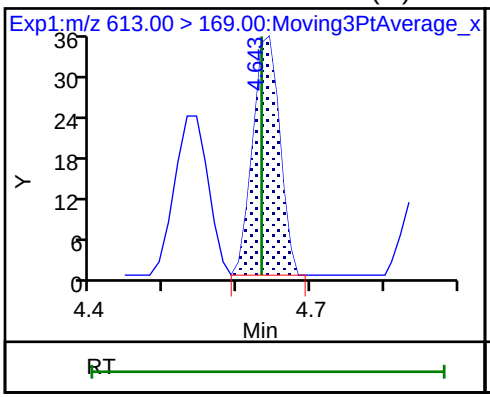
D 36 13C2 PFDoA



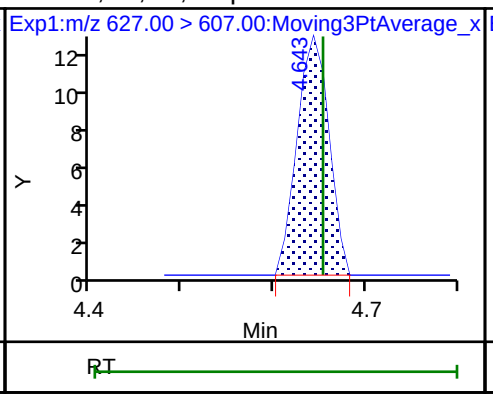
37 Perfluorododecanoic acid (M)



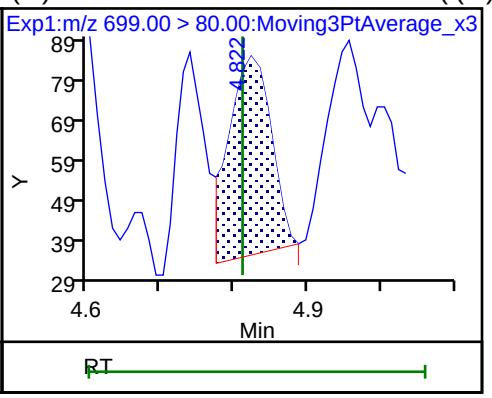
37 Perfluorododecanoic acid (M)



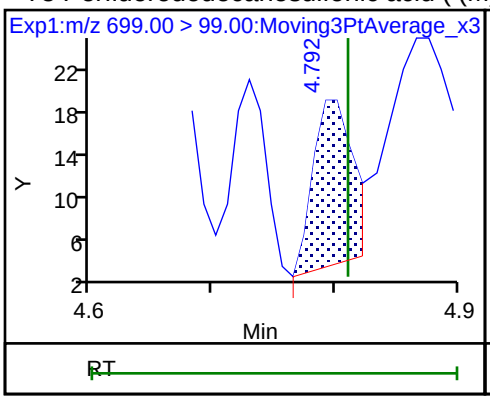
74 1H,1H,2H,2H-perfluorododecanesul (M)



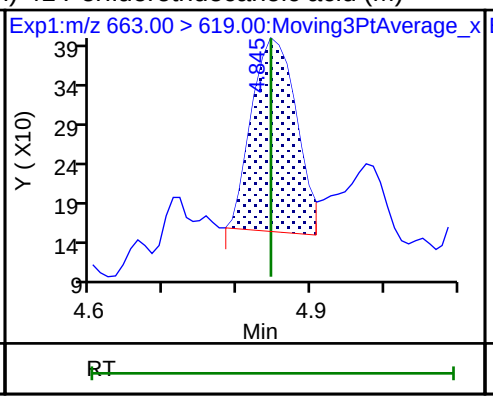
75 Perfluorododecanesulfonic acid ((M)



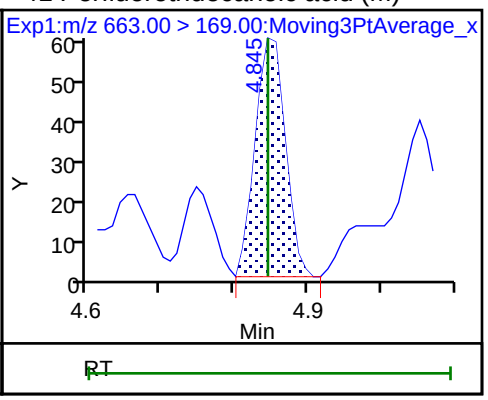
75 Perfluorododecanesulfonic acid ((M)



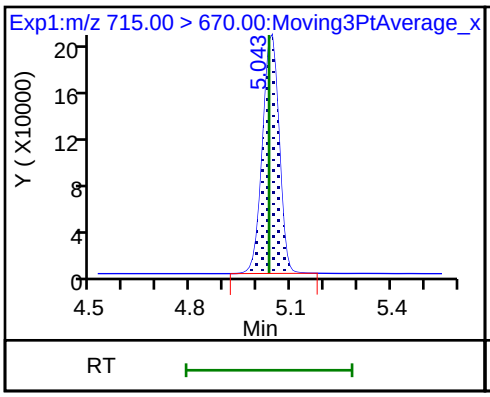
41 Perfluorotridecanoic acid (M)



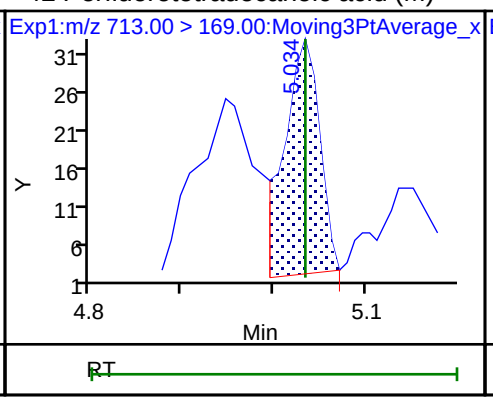
41 Perfluorotridecanoic acid (M)



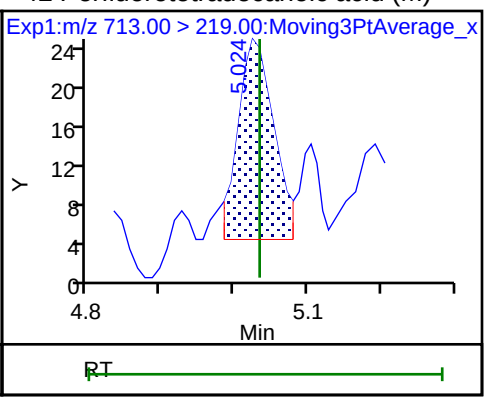
D 43 13C2 PFTeDA



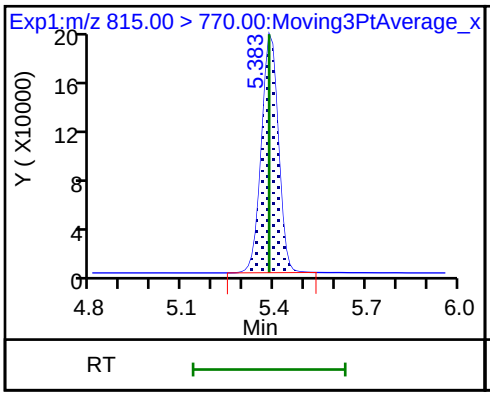
42 Perfluorotetradecanoic acid (M)



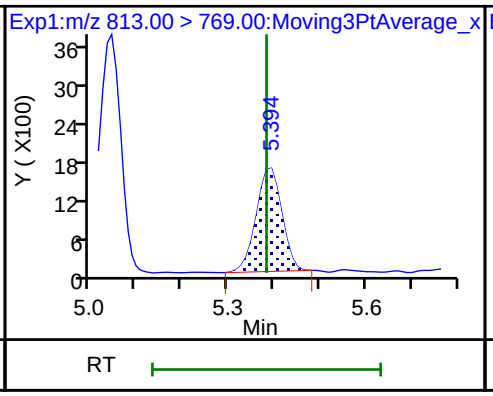
42 Perfluorotetradecanoic acid (M)



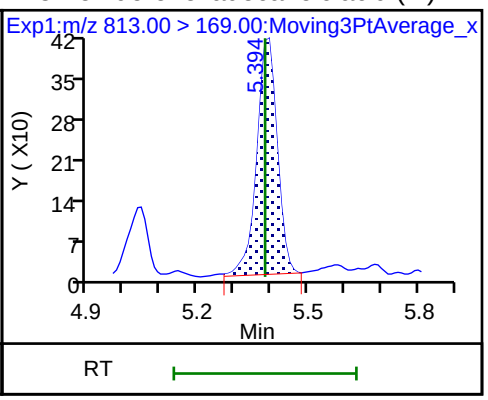
D 44 13C2 PFHxDA



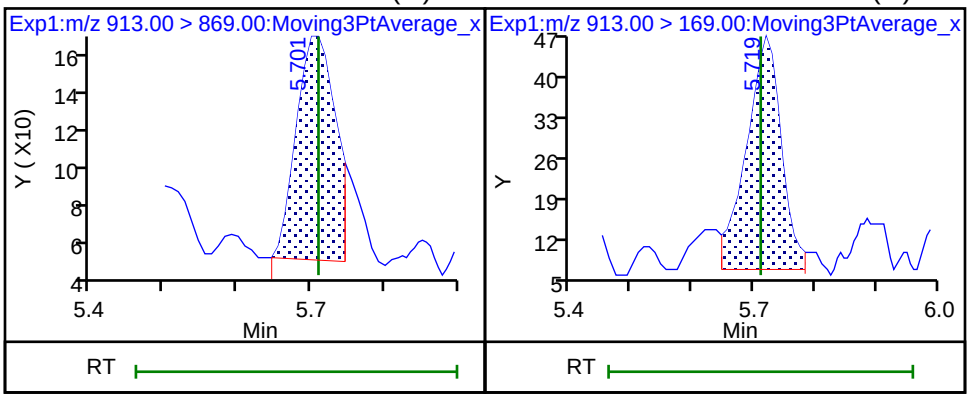
45 Perfluorohexadecanoic acid



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M) 46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

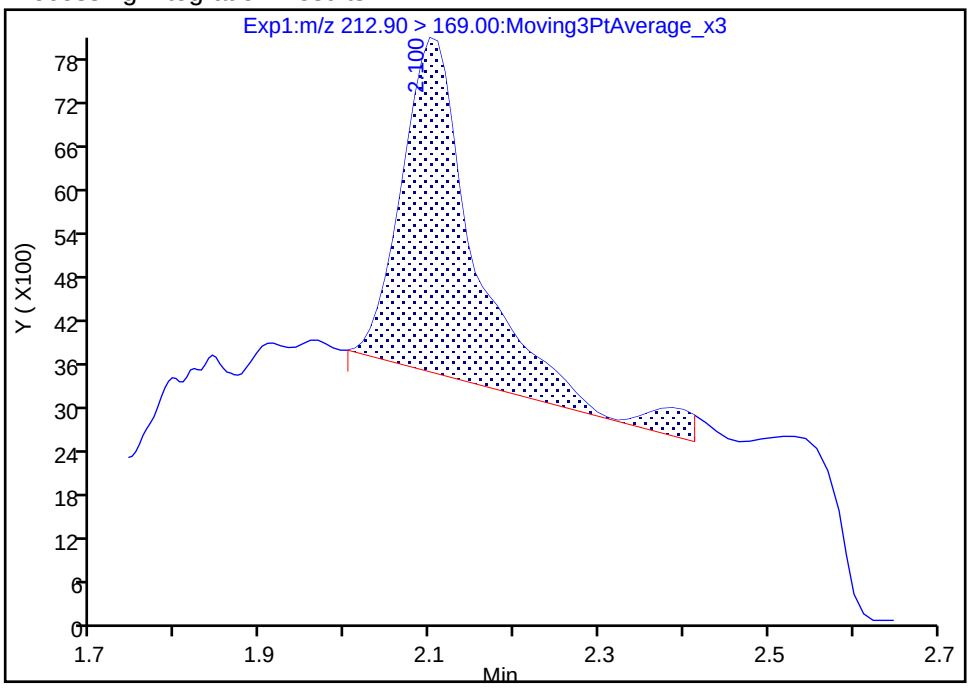
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

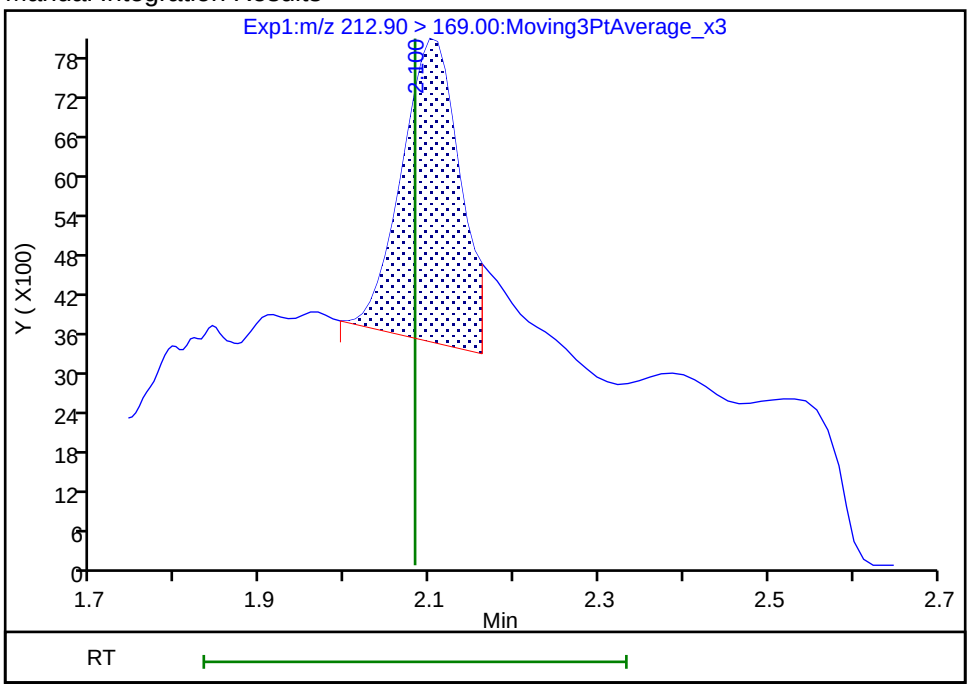
Processing Integration Results

RT: 2.10
Area: 28567
Amount: 0.024806
Amount Units: ng/ml



Manual Integration Results

RT: 2.10
Area: 22169
Amount: 0.019250
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:01:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

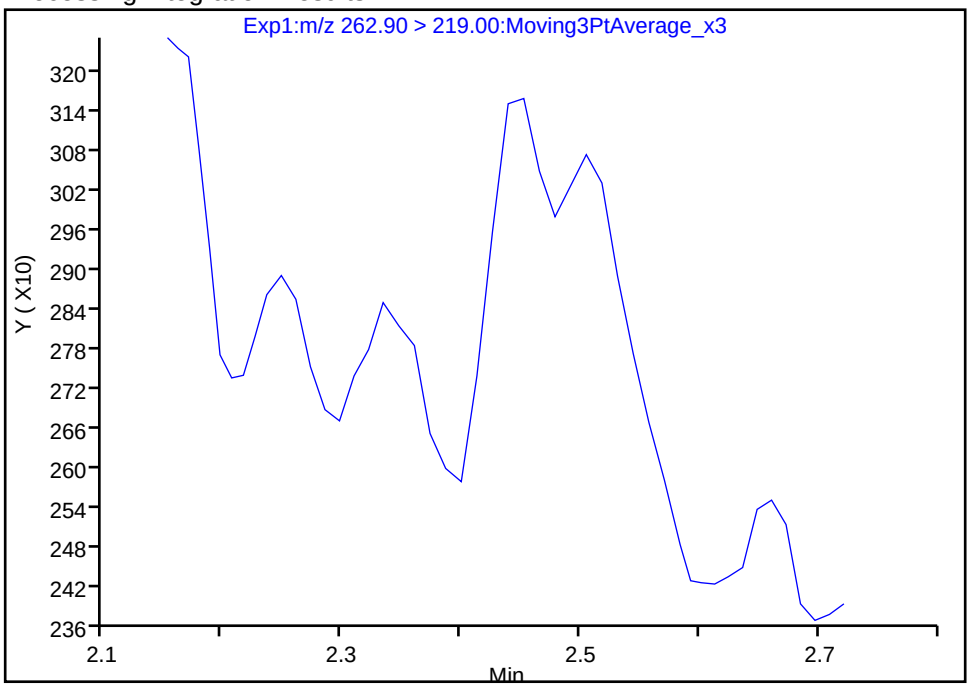
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

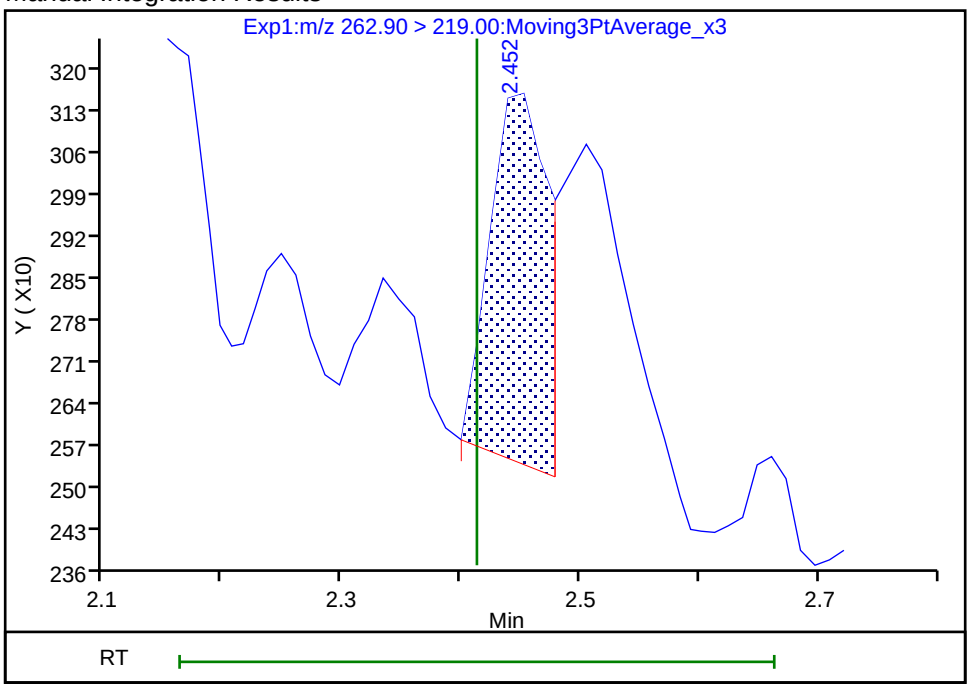
Not Detected
Expected RT: 2.41

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 2008
Amount: 0.002003
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:02:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

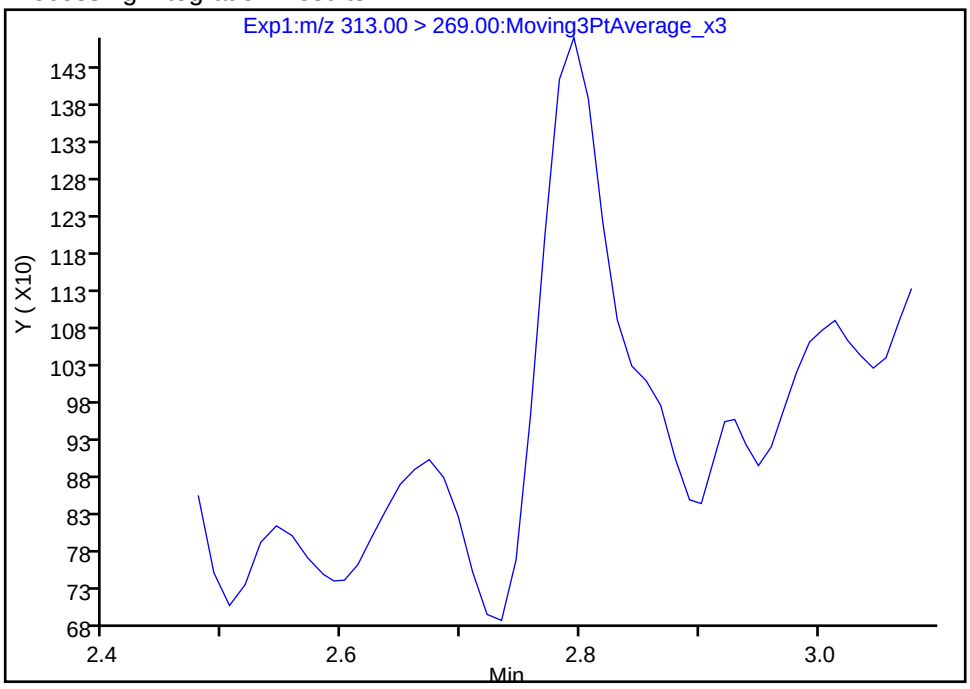
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

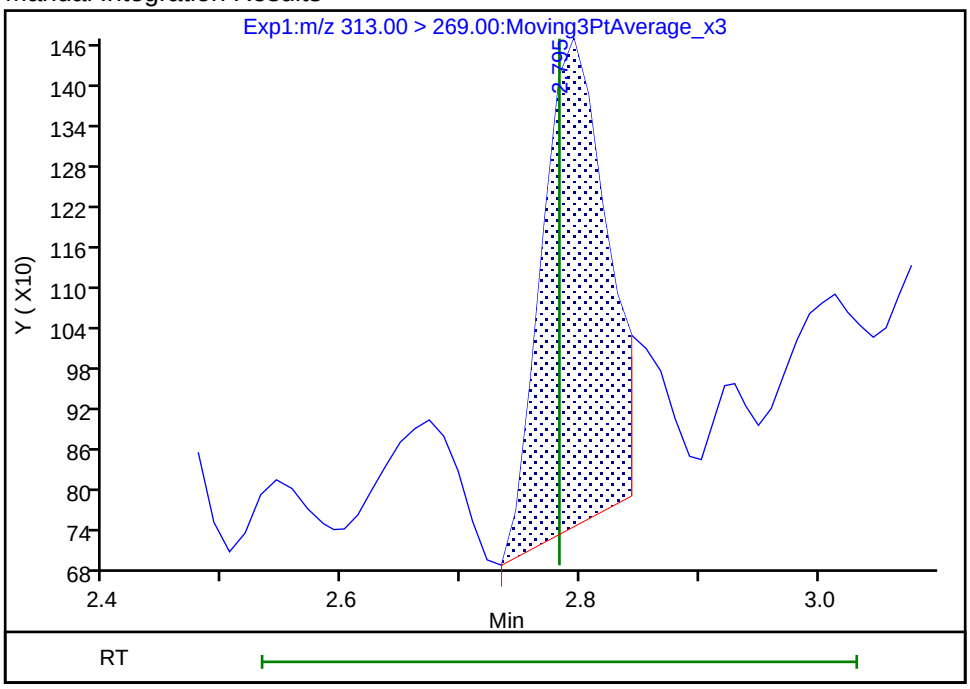
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.79
Area: 2722
Amount: 0.002432
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:05:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

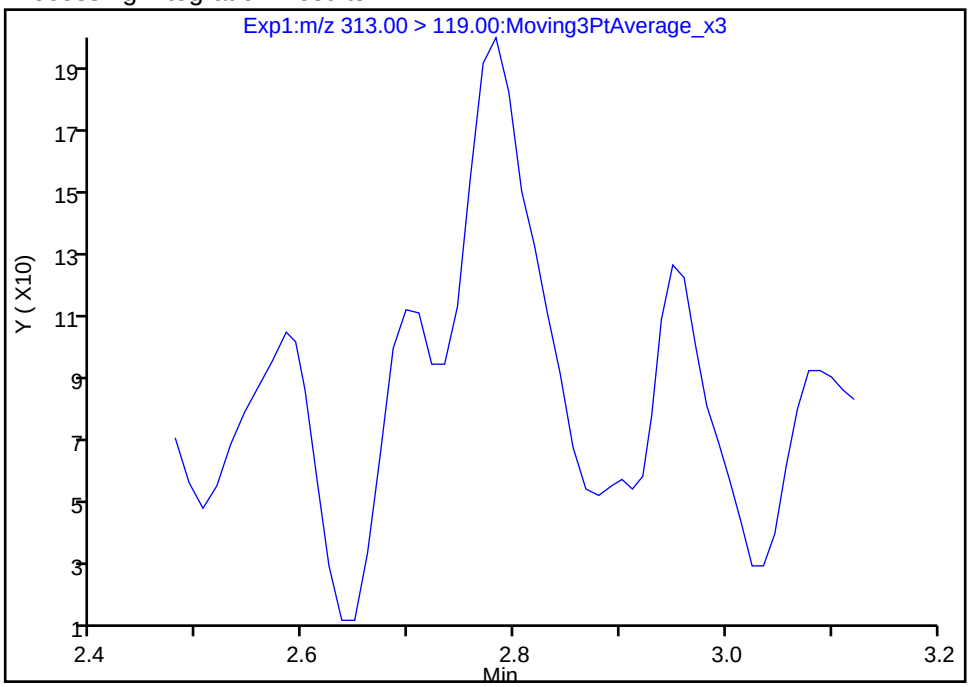
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d
Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

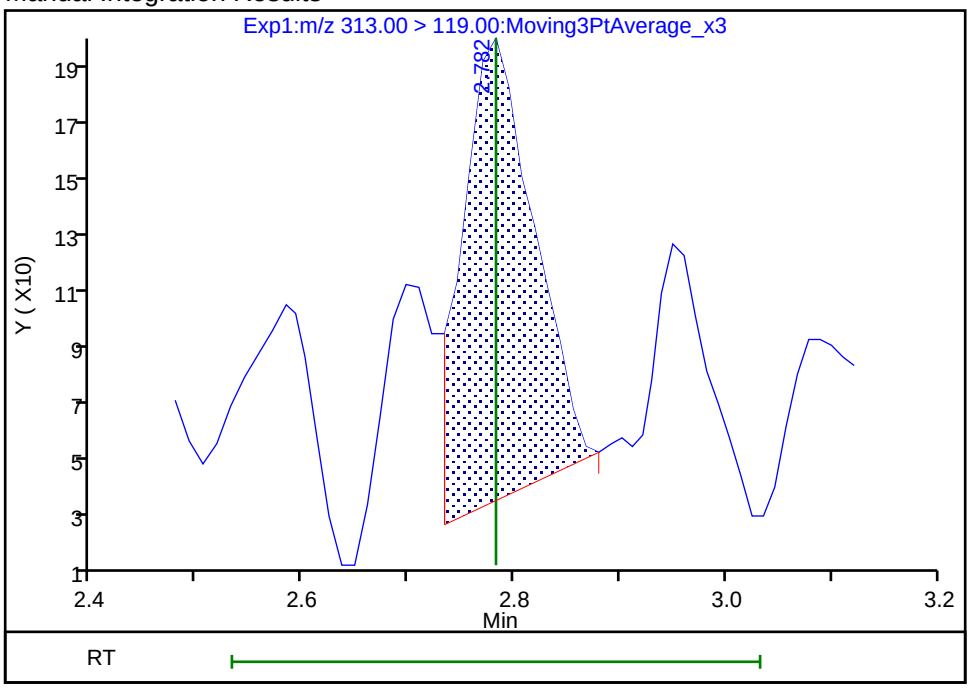
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.78
Area: 742
Amount: 0.002432
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:05:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

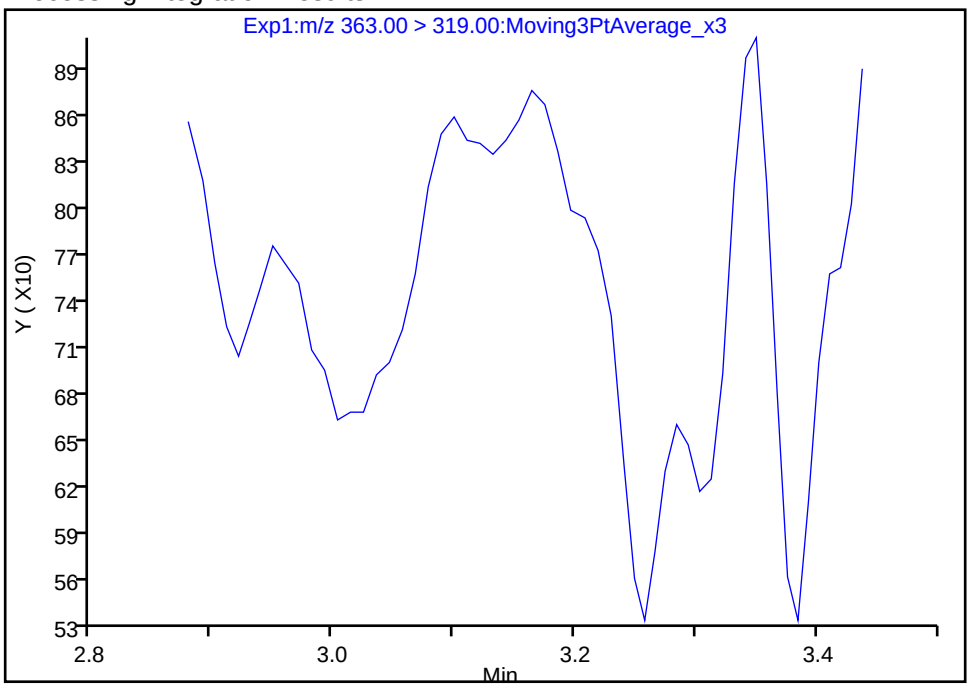
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d
Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

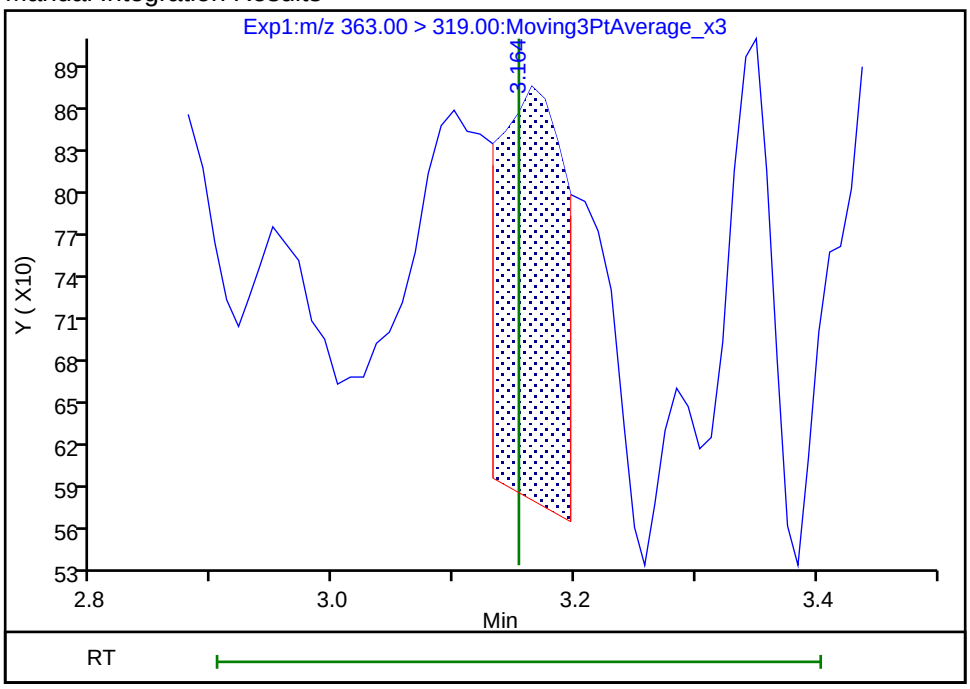
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 1039
Amount: 0.000915
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:06:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

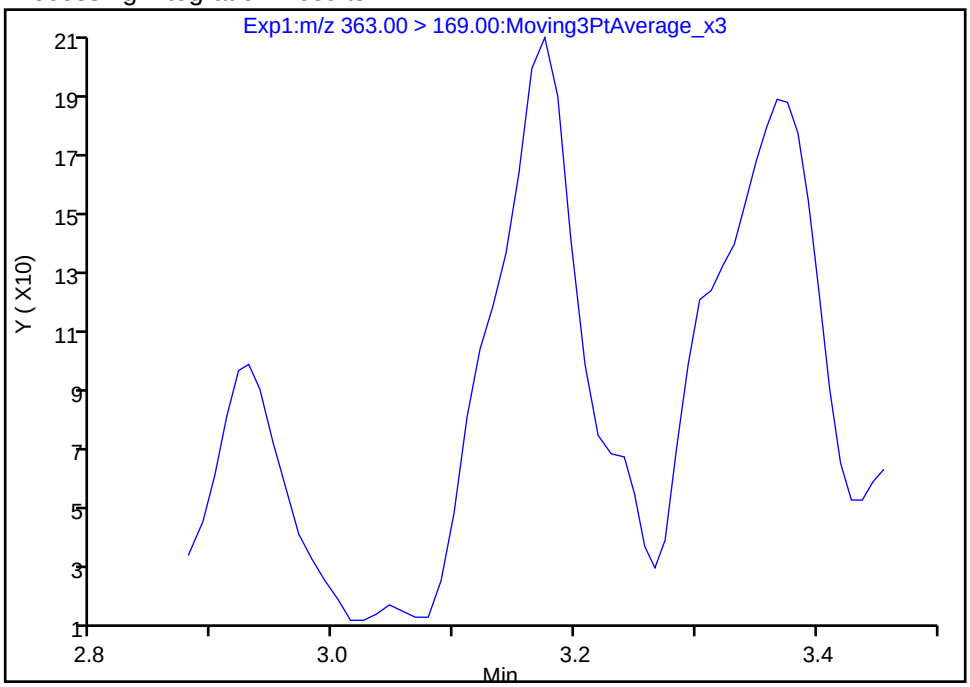
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

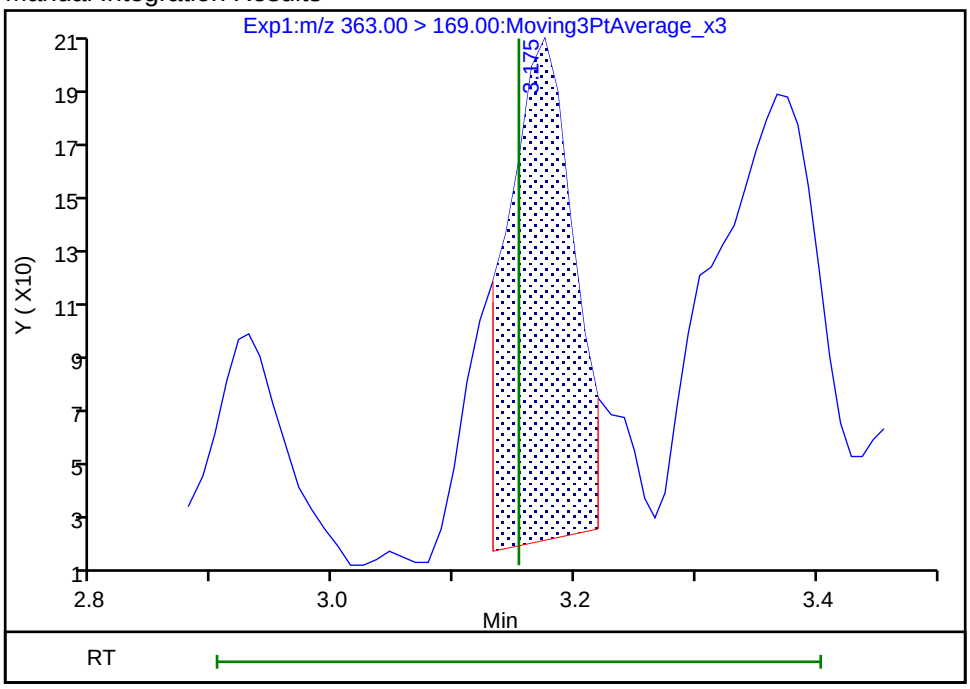
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.18
Area: 662
Amount: 0.000915
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:06:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

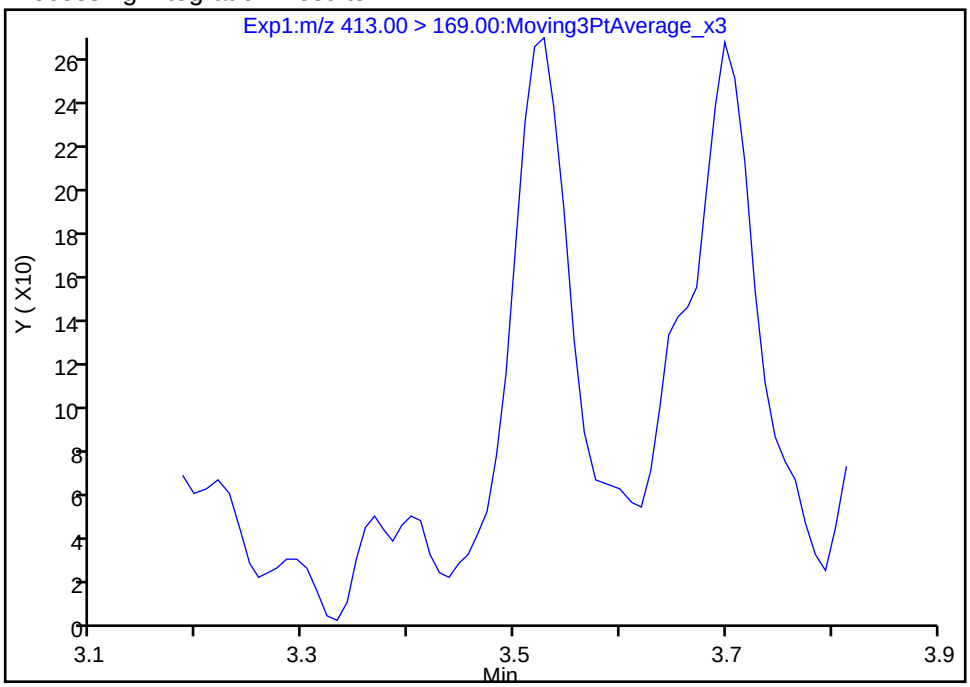
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

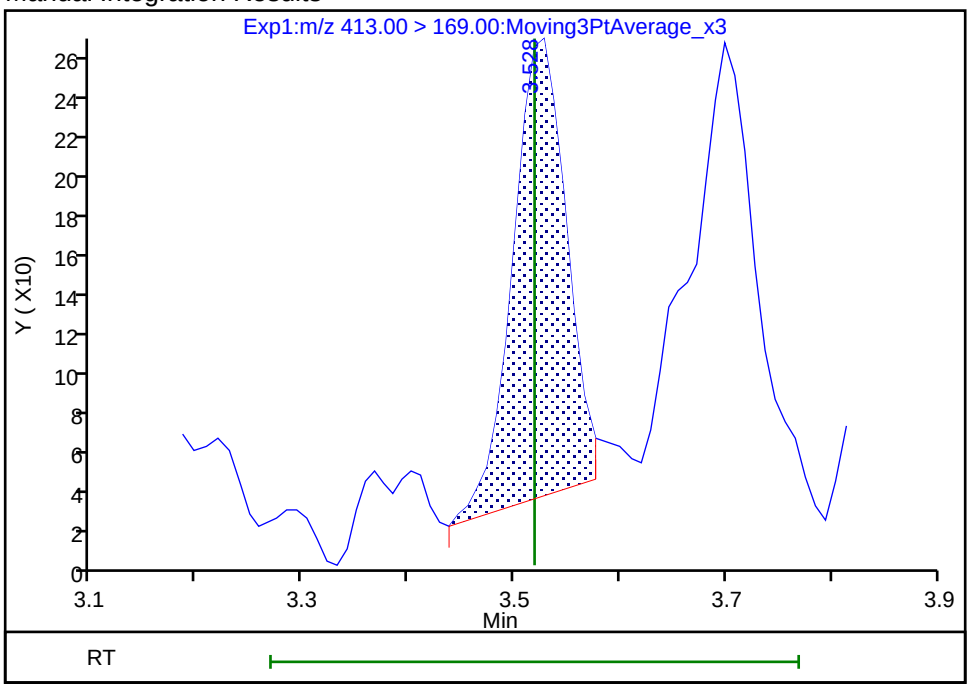
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 784
Amount: 0.002847
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:08:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

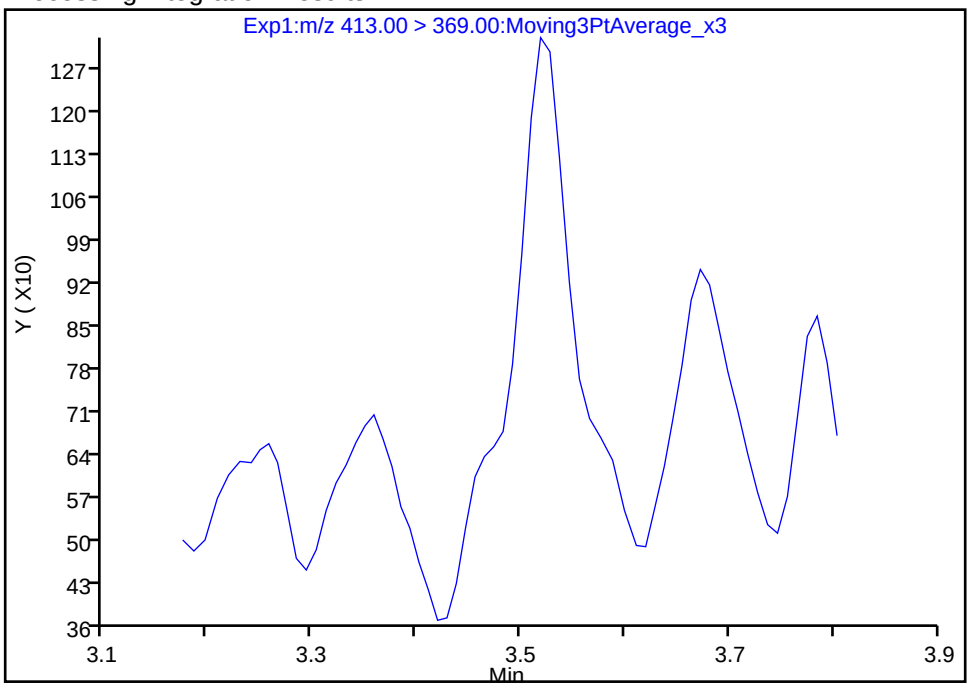
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

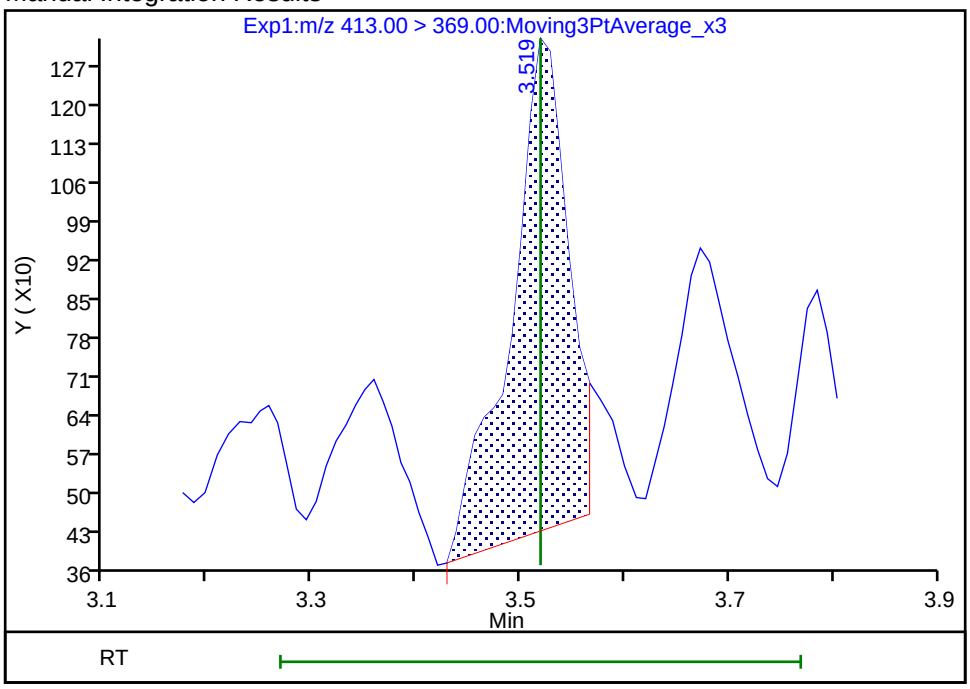
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 3385
Amount: 0.002847
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:08:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

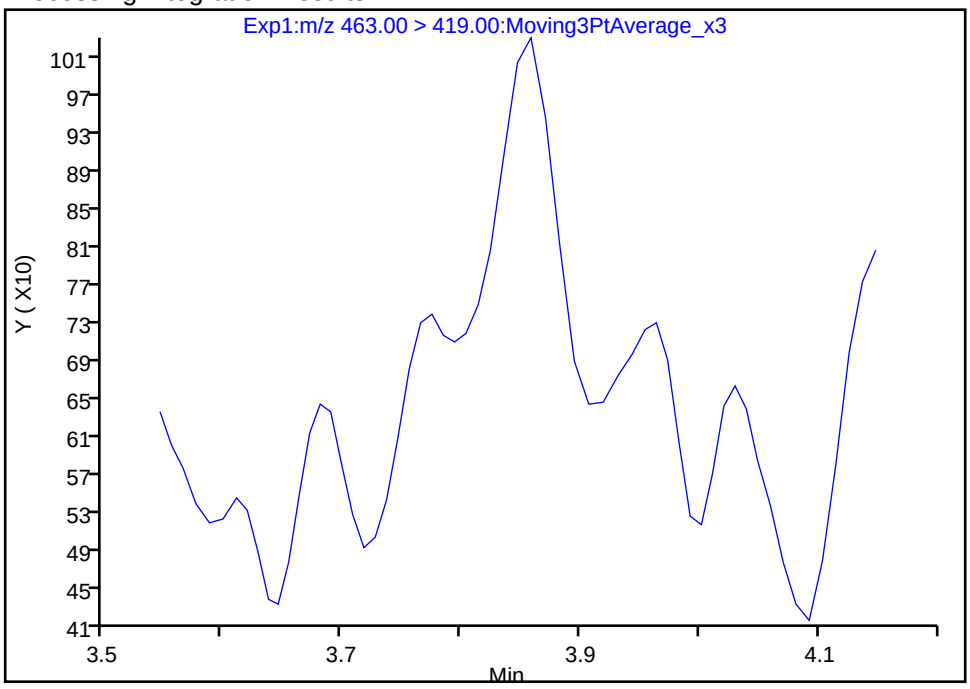
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

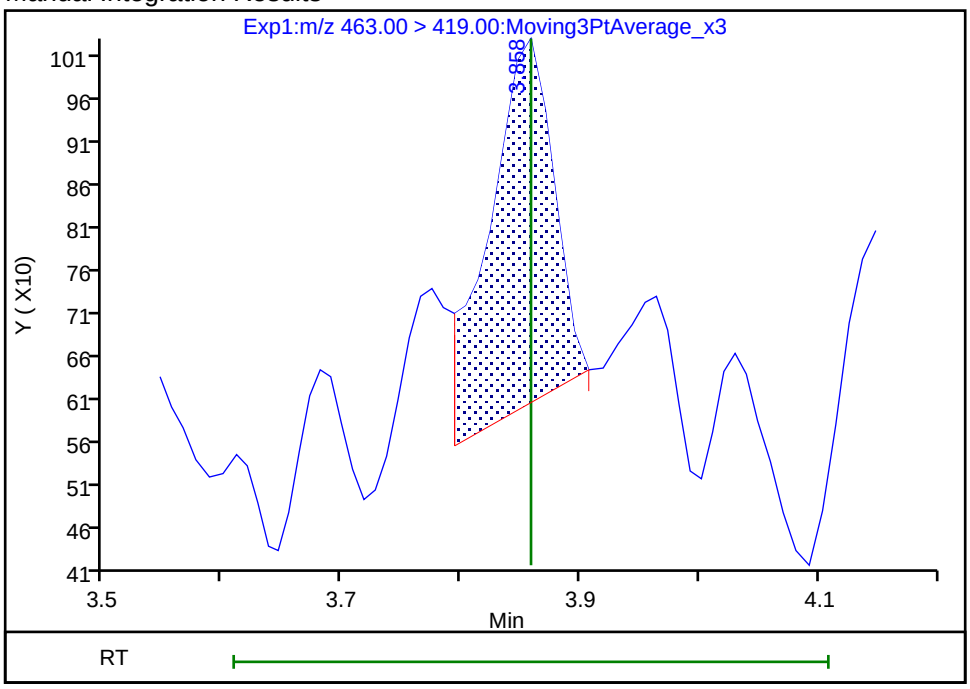
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.86
Area: 1592
Amount: 0.001541
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:10:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

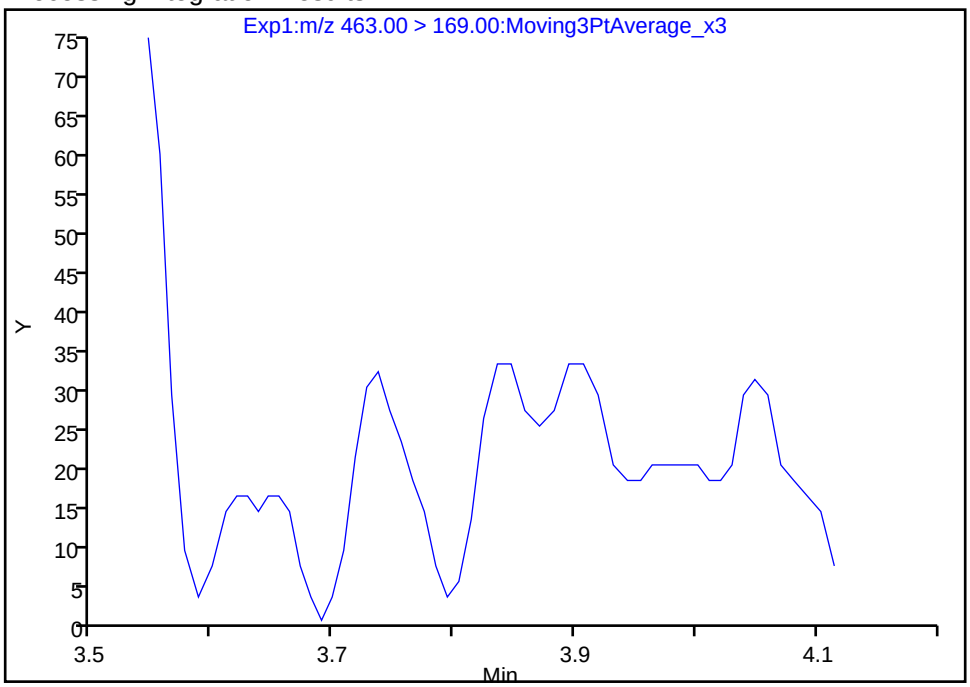
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

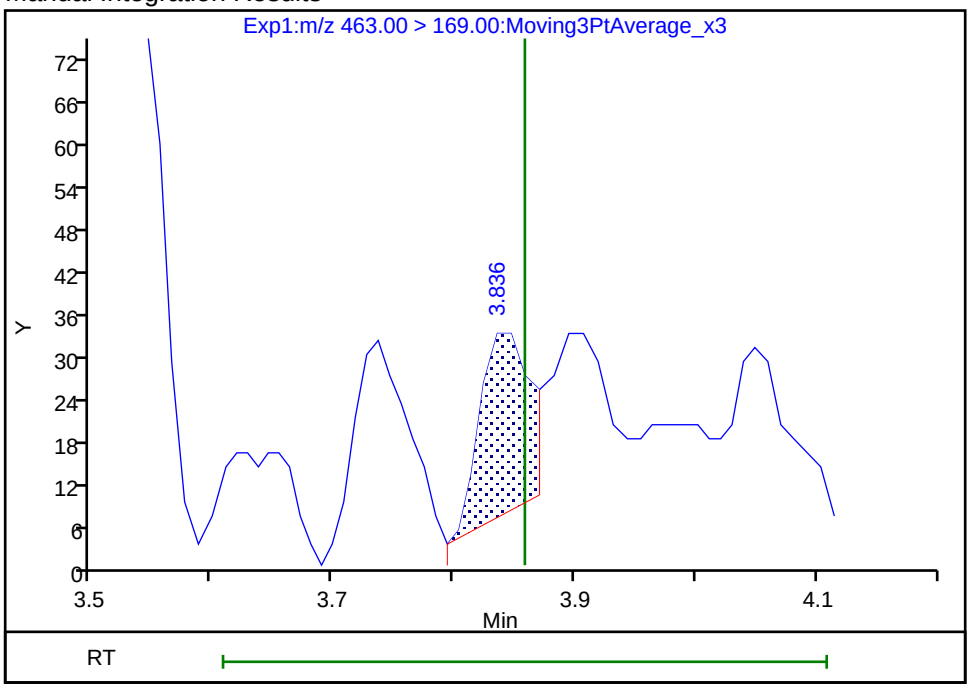
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.84
Area: 72
Amount: 0.001541
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:10:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

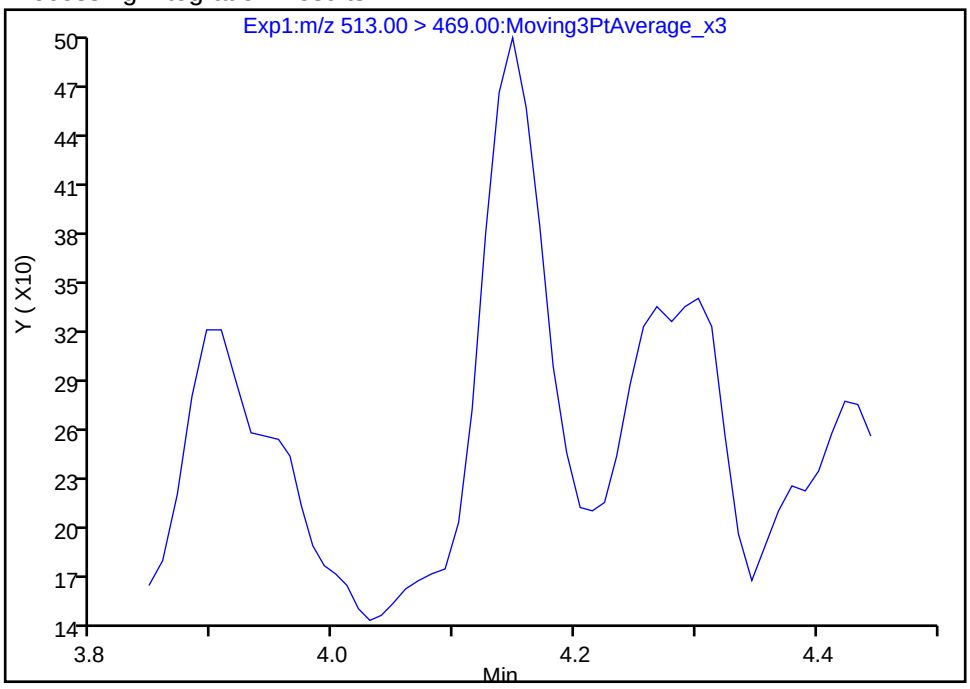
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

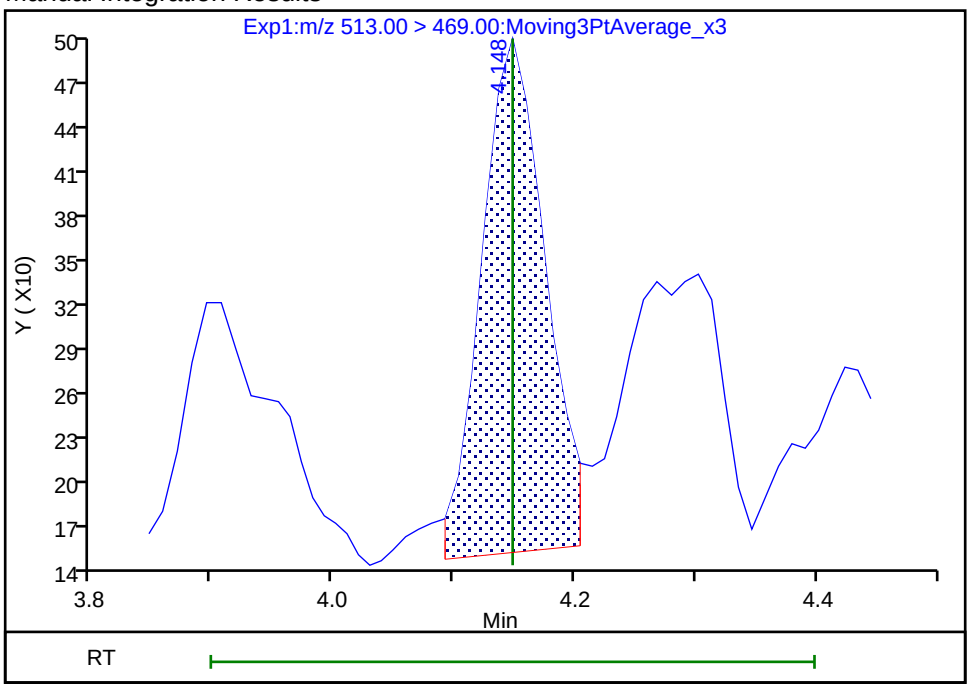
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 1243
Amount: 0.001216
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:11:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

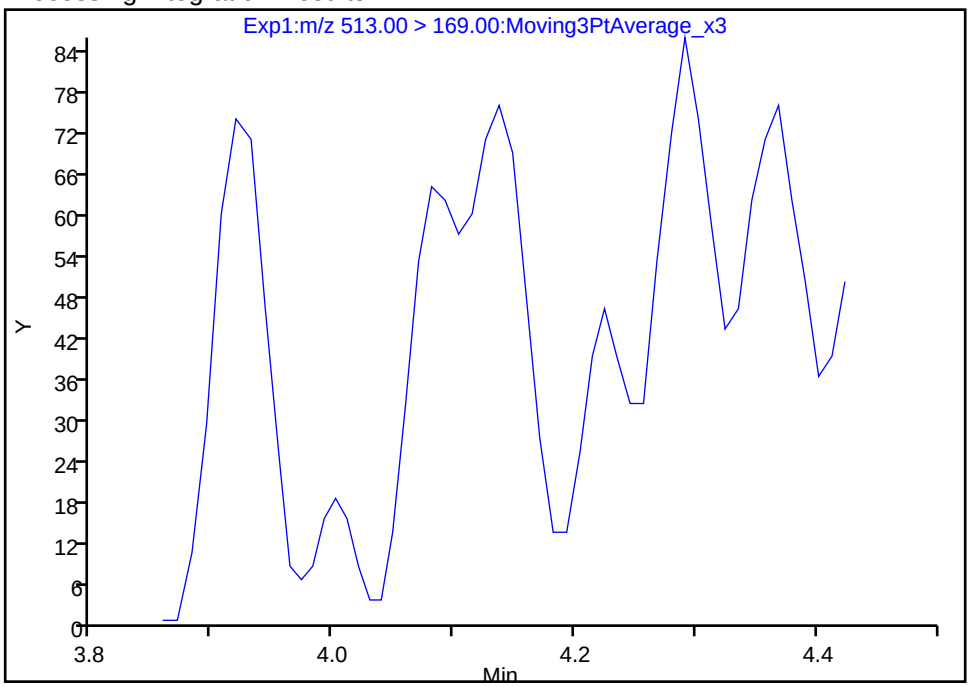
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

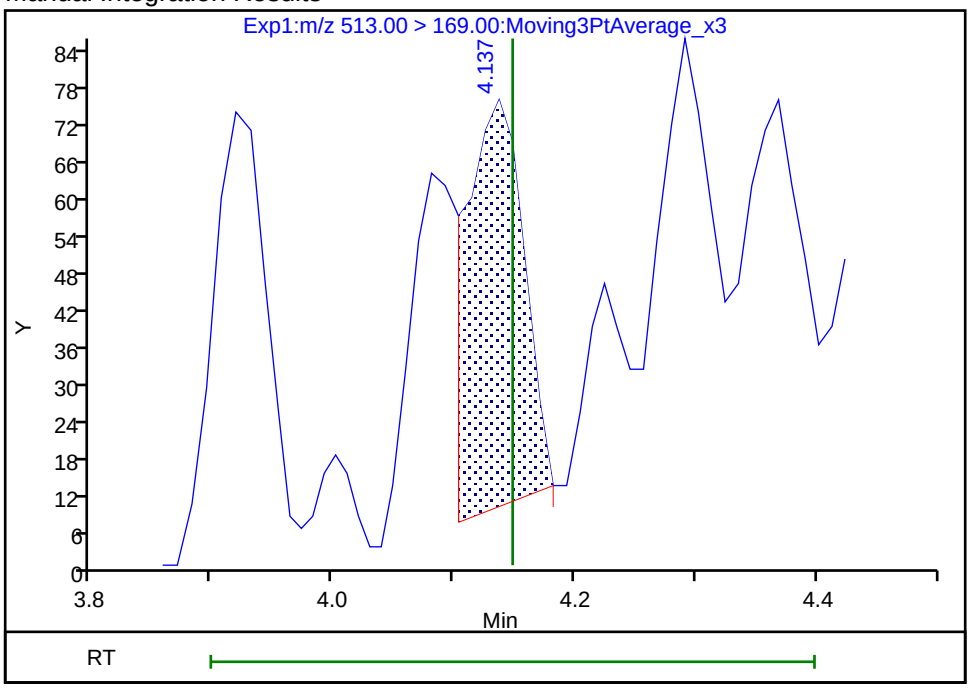
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 212
Amount: 0.001216
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:11:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

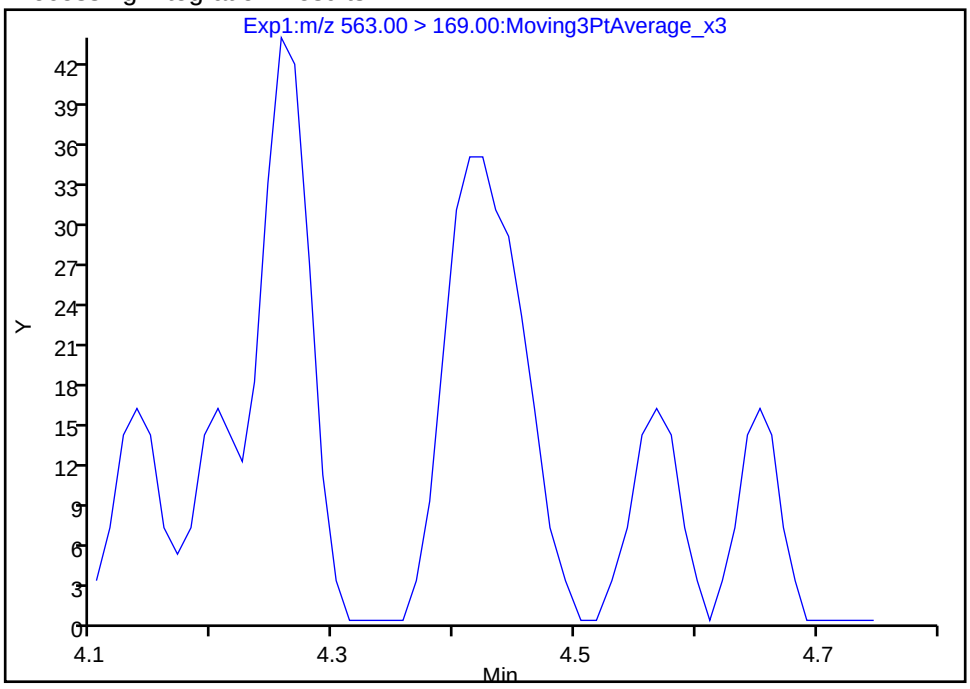
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

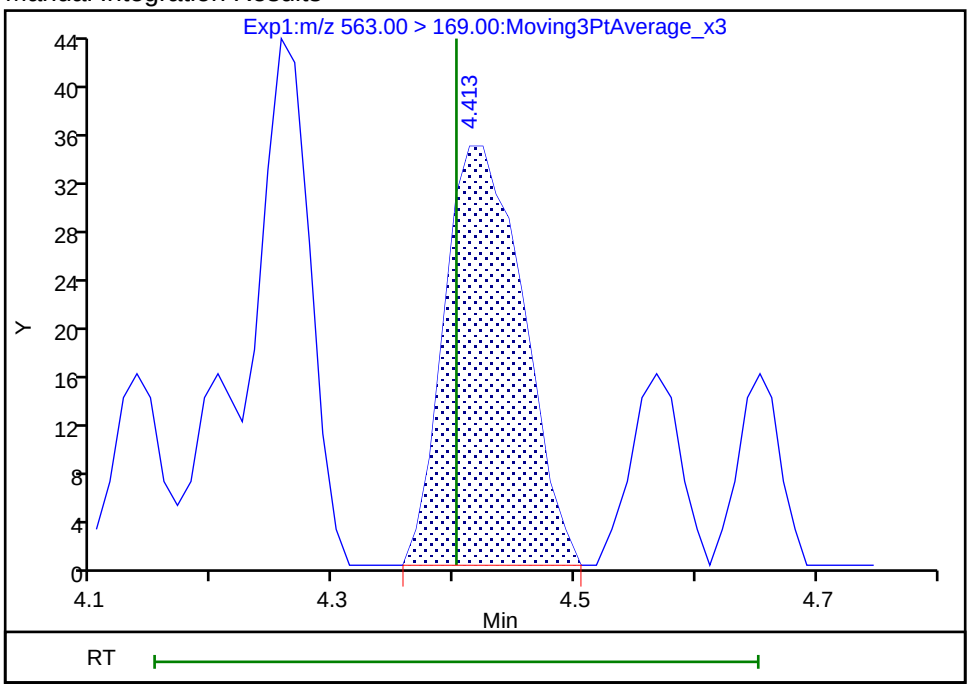
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 159
Amount: 0.001485
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:12:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

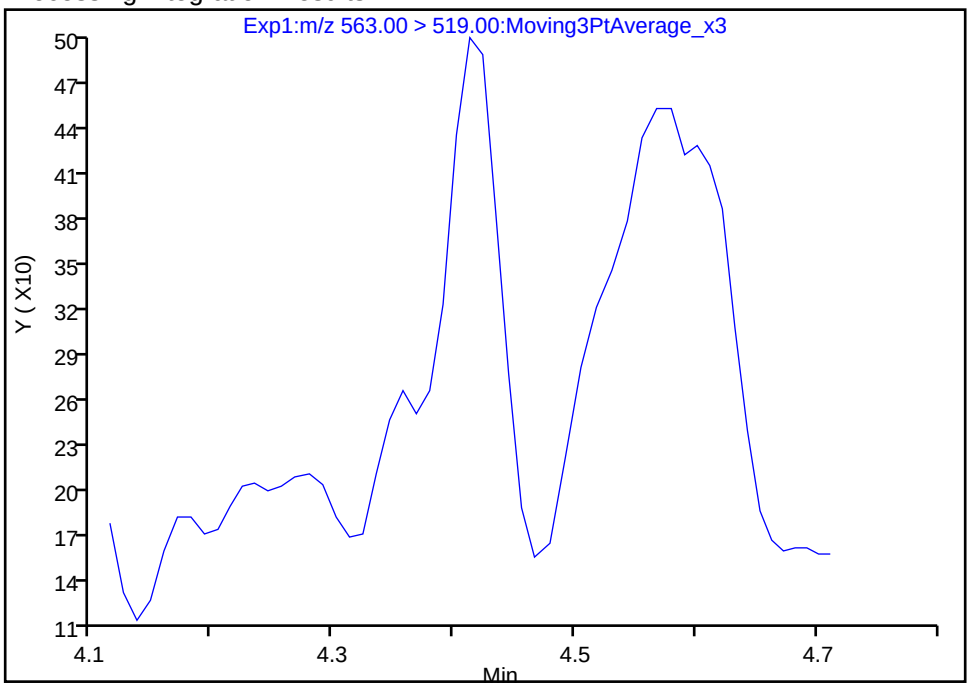
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

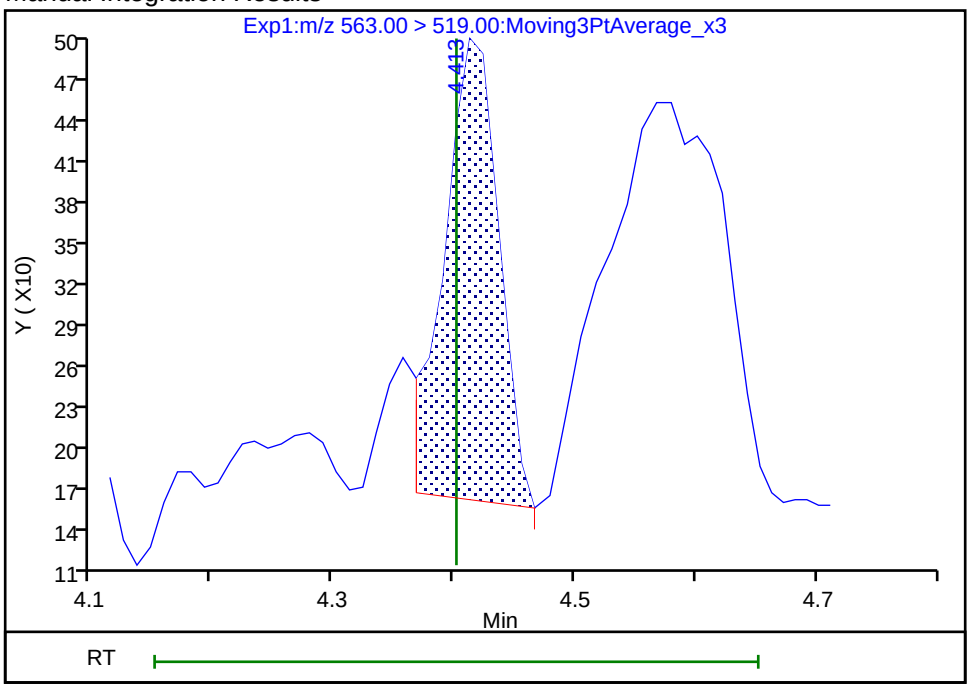
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 1032
Amount: 0.001485
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:12:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

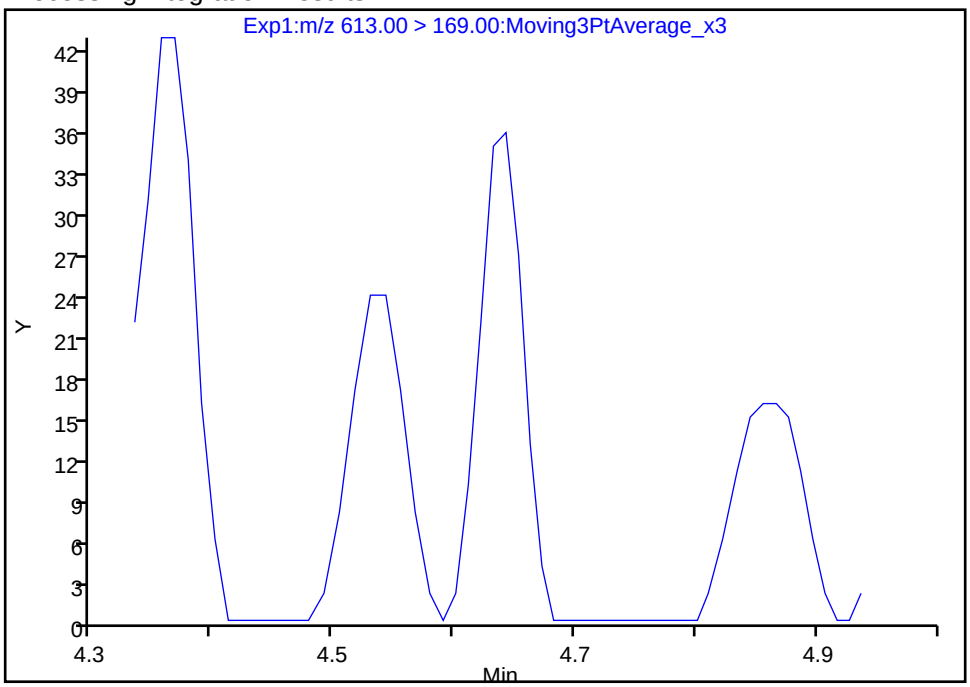
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d
Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

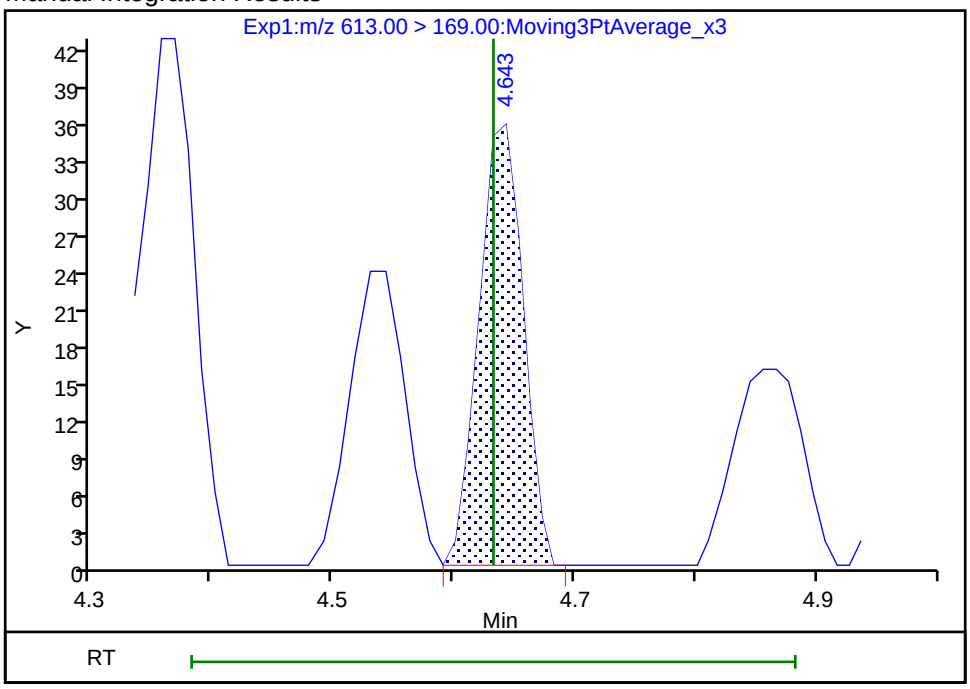
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 91
Amount: 0.001825
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:12:57
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

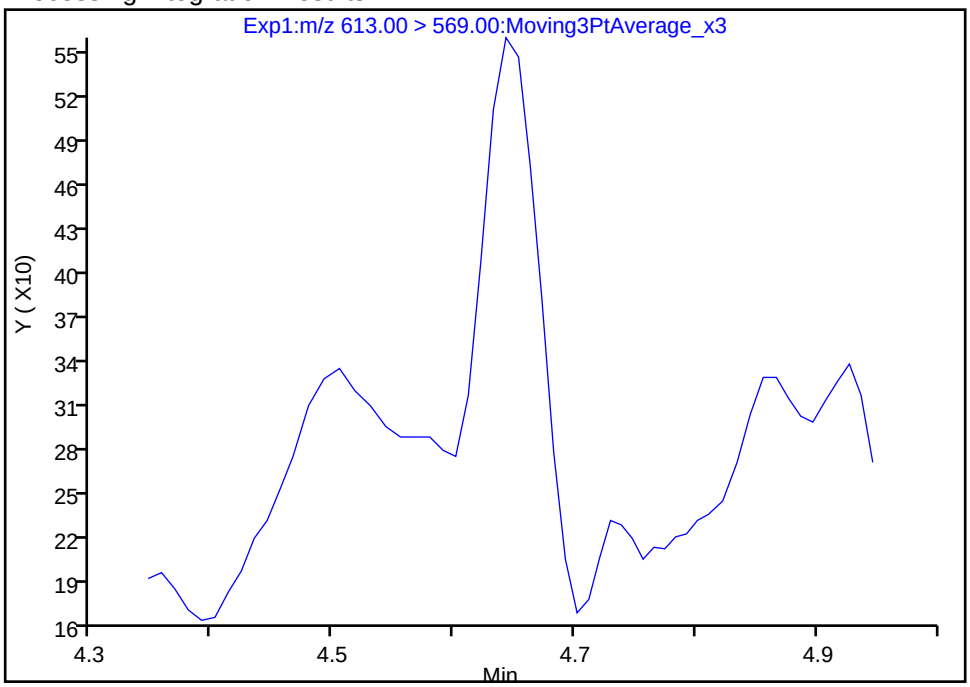
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

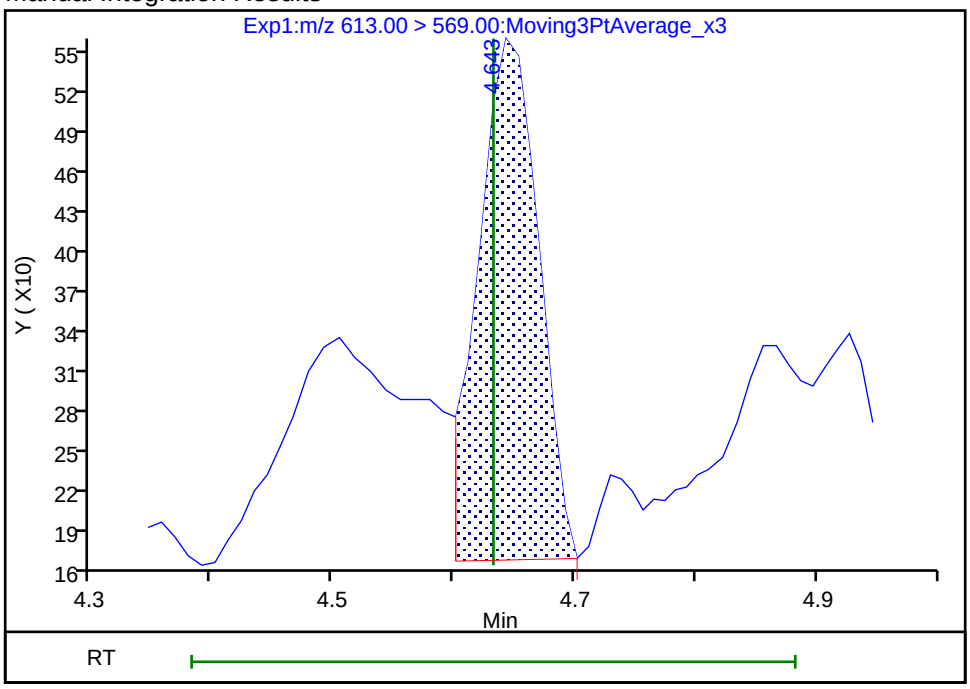
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 1334
Amount: 0.001825
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:13:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

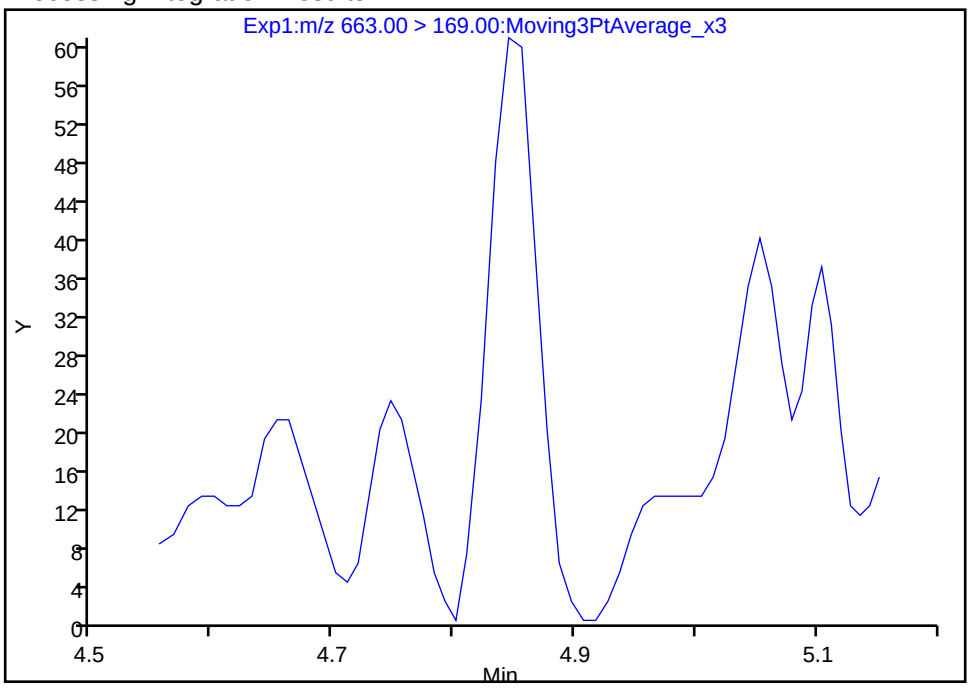
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

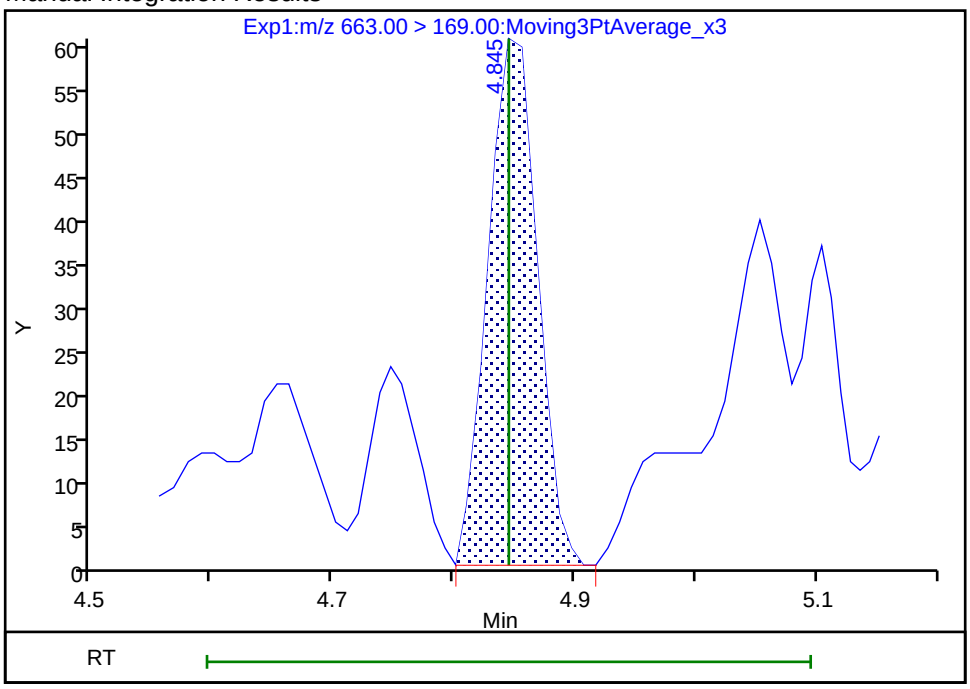
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 173
Amount: 0.001613
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:13:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

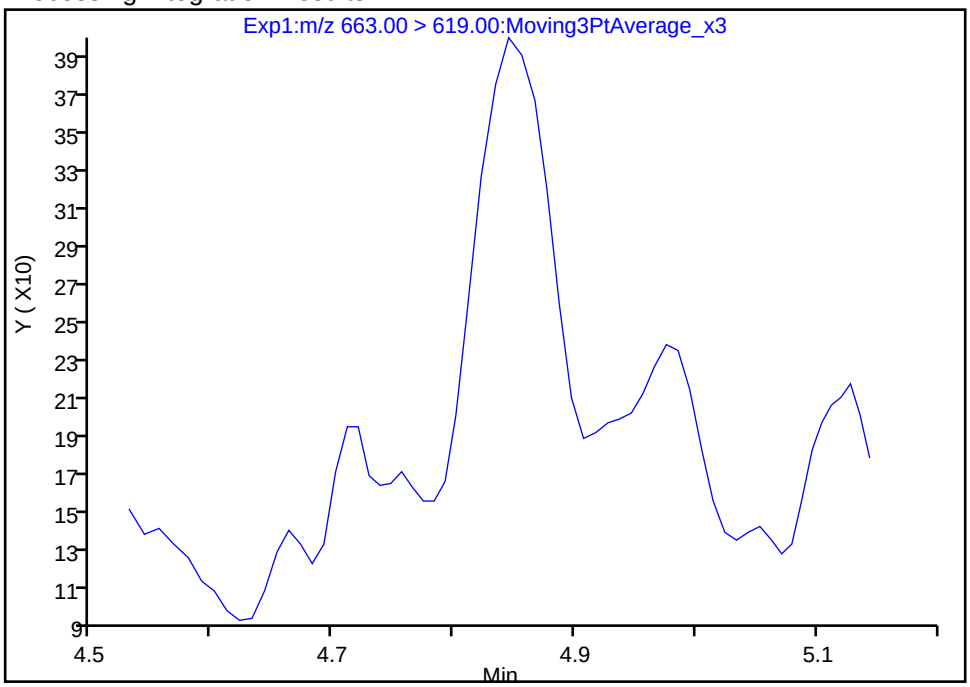
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

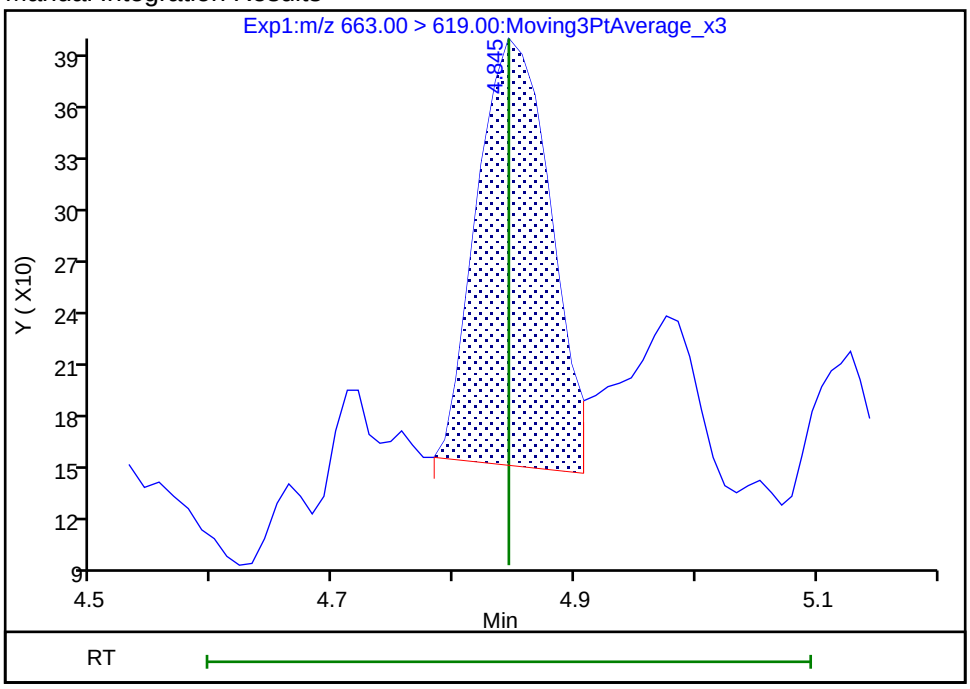
Not Detected
Expected RT: 4.85

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 1016
Amount: 0.001613
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:13:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

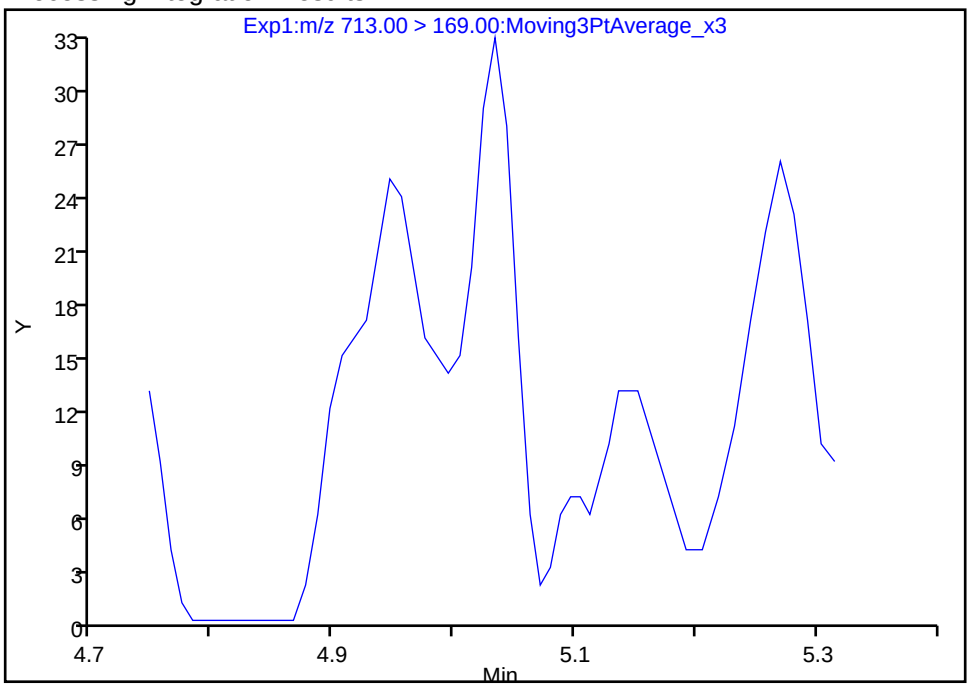
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

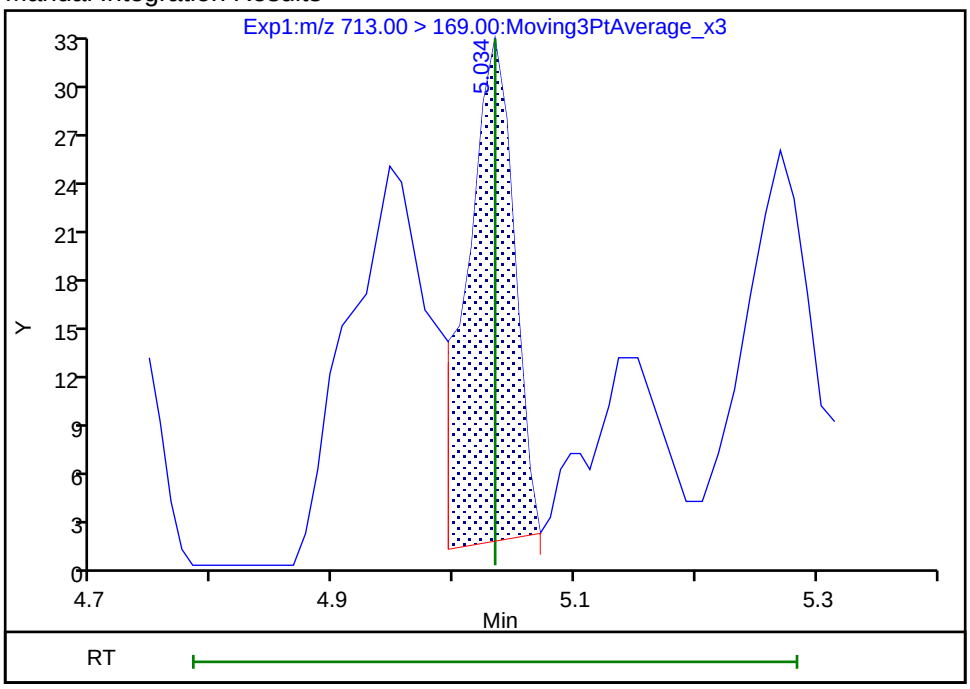
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 82
Amount: 0.000868
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:14:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

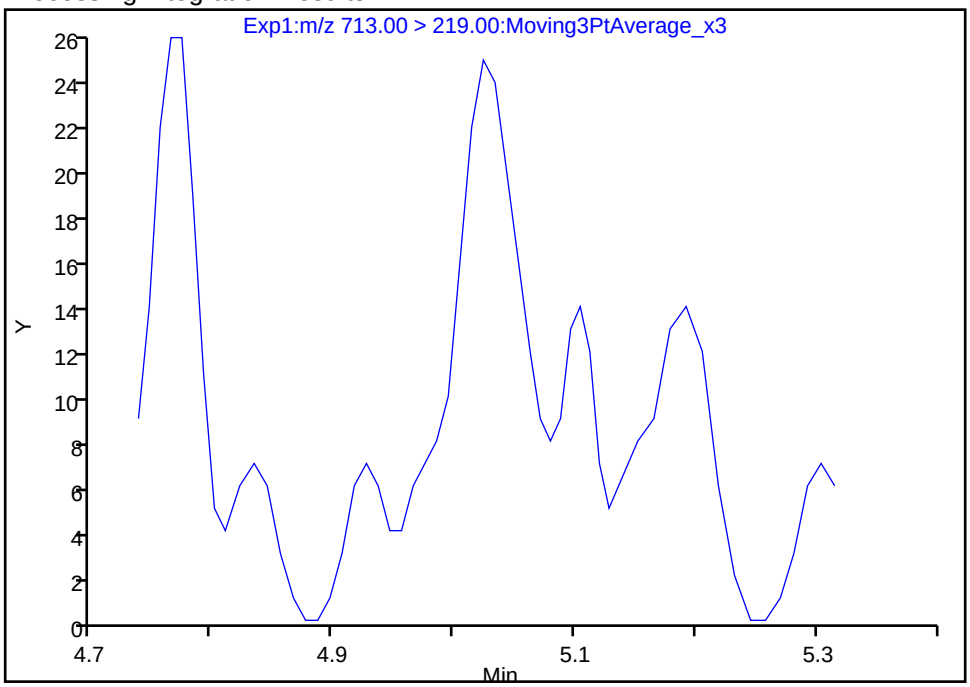
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

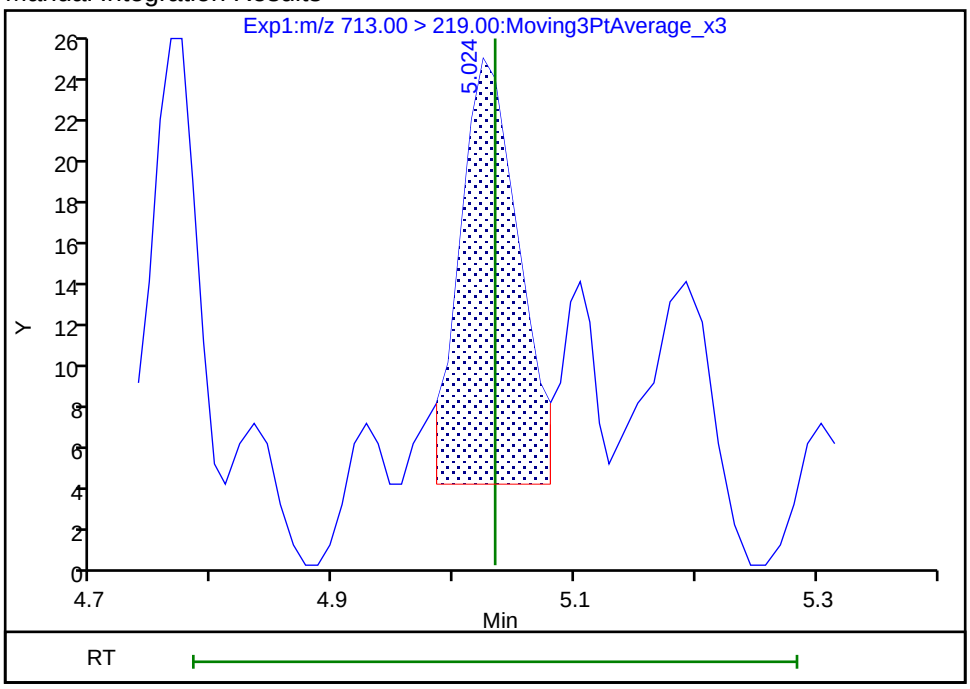
Not Detected
Expected RT: 5.03

Processing Integration Results



Manual Integration Results

RT: 5.02
Area: 70
Amount: 0.000868
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:14:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

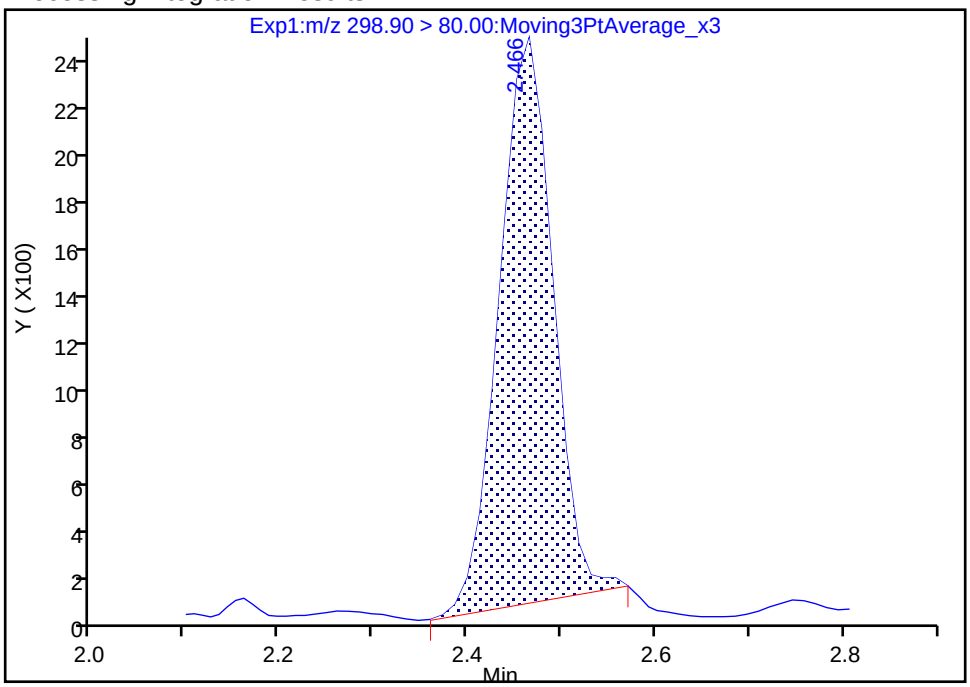
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Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

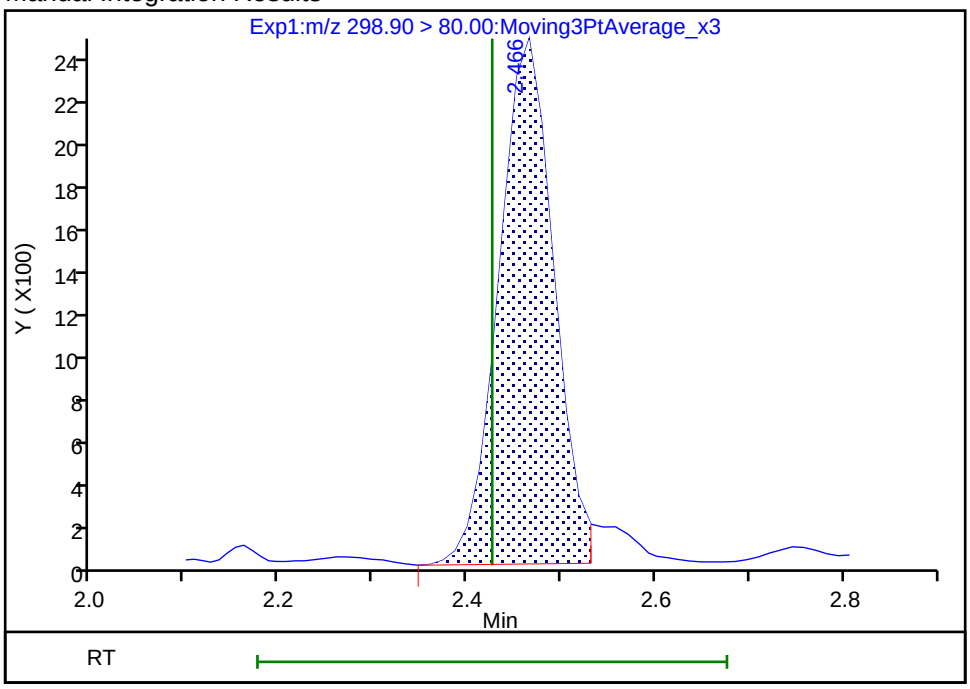
Processing Integration Results

RT: 2.47
Area: 9167
Amount: 0.007712
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 9602
Amount: 0.008078
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:03:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

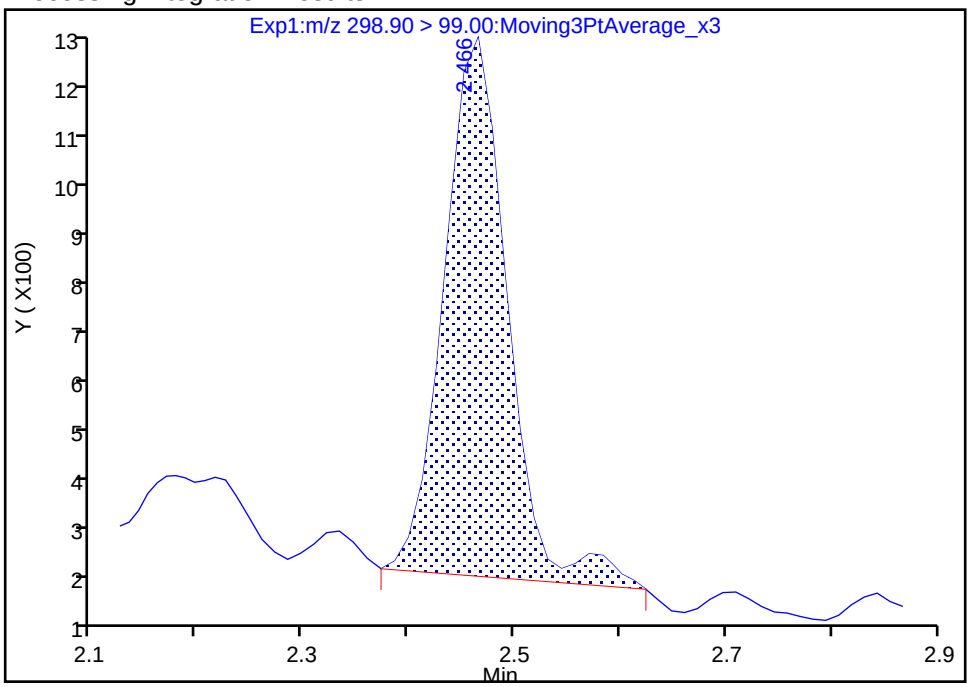
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

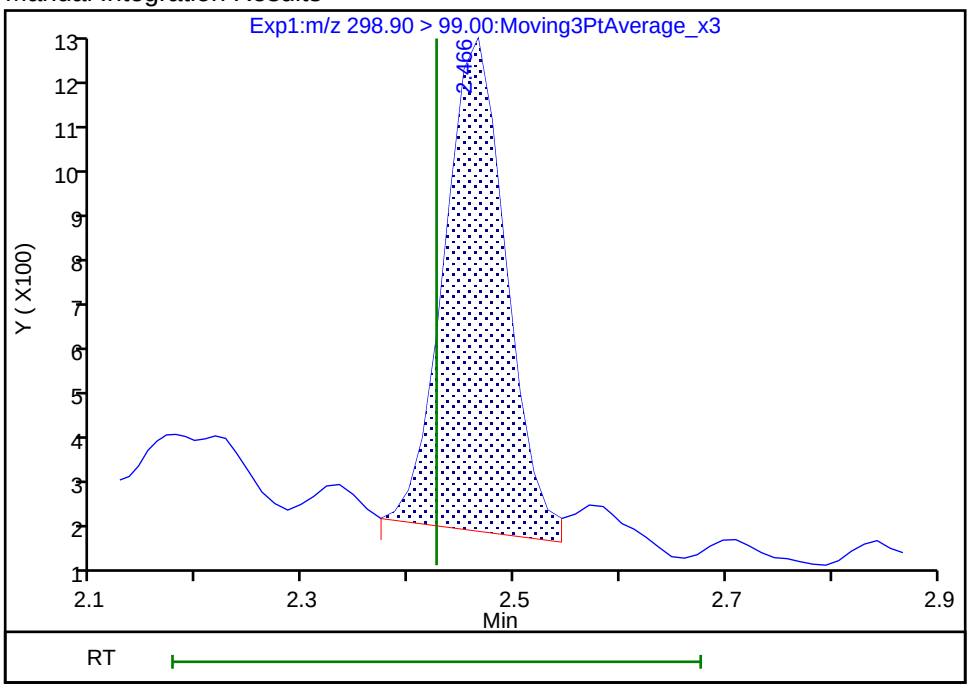
Processing Integration Results

RT: 2.47
Area: 4052
Amount: 0.007712
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 3999
Amount: 0.008078
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:03:46
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

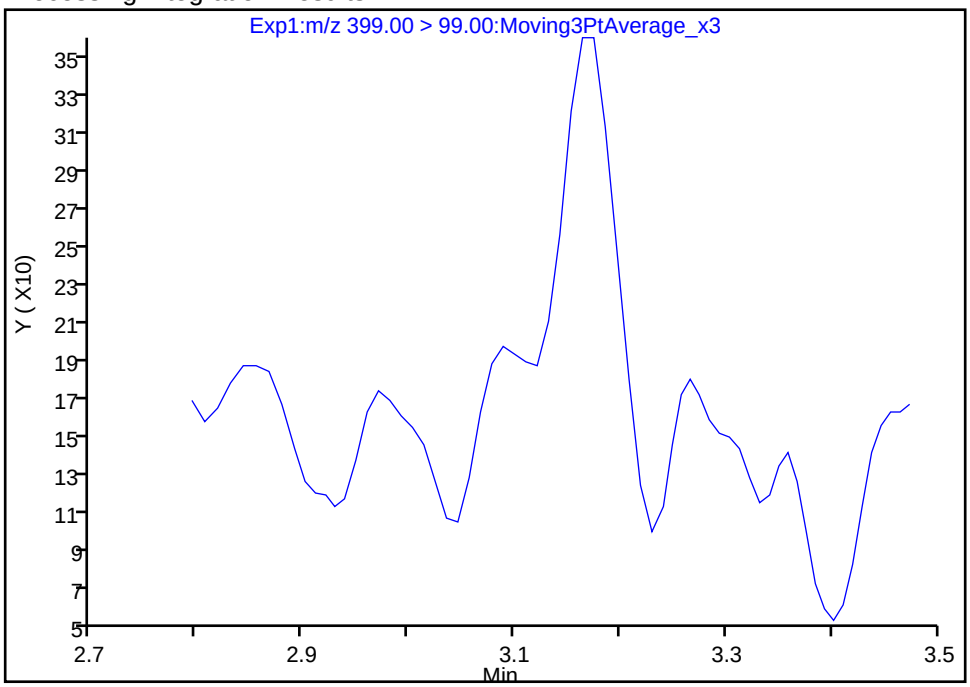
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

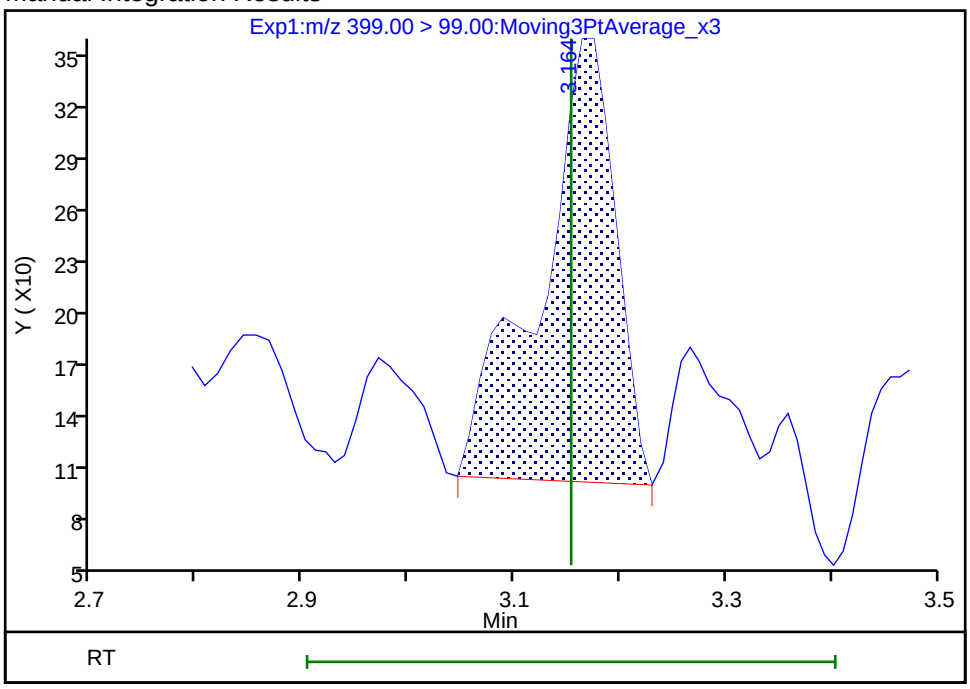
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 1265
Amount: 0.004876
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:06:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

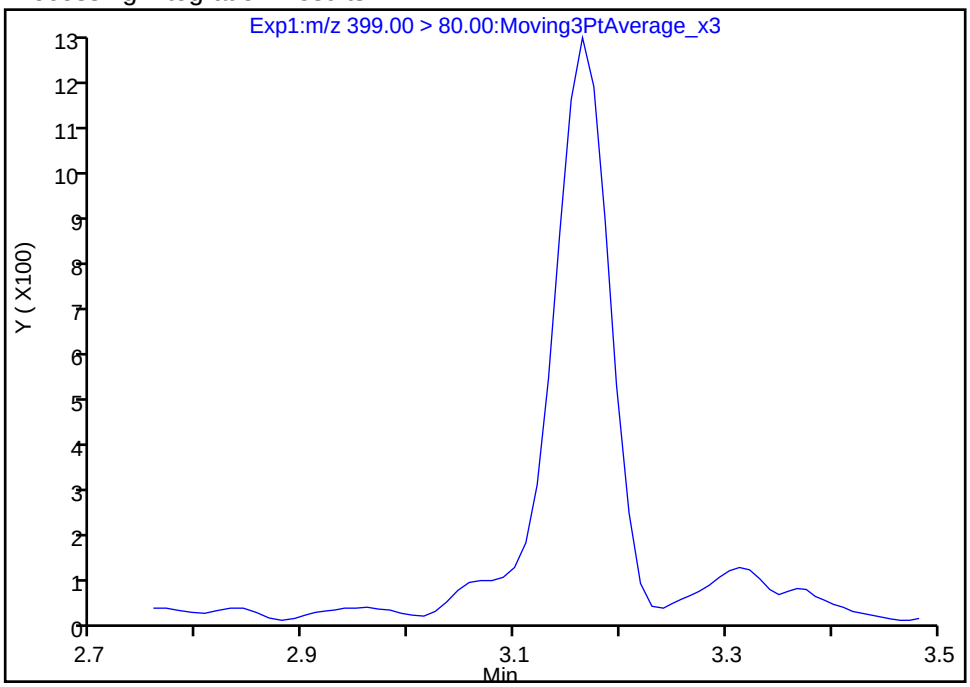
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Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

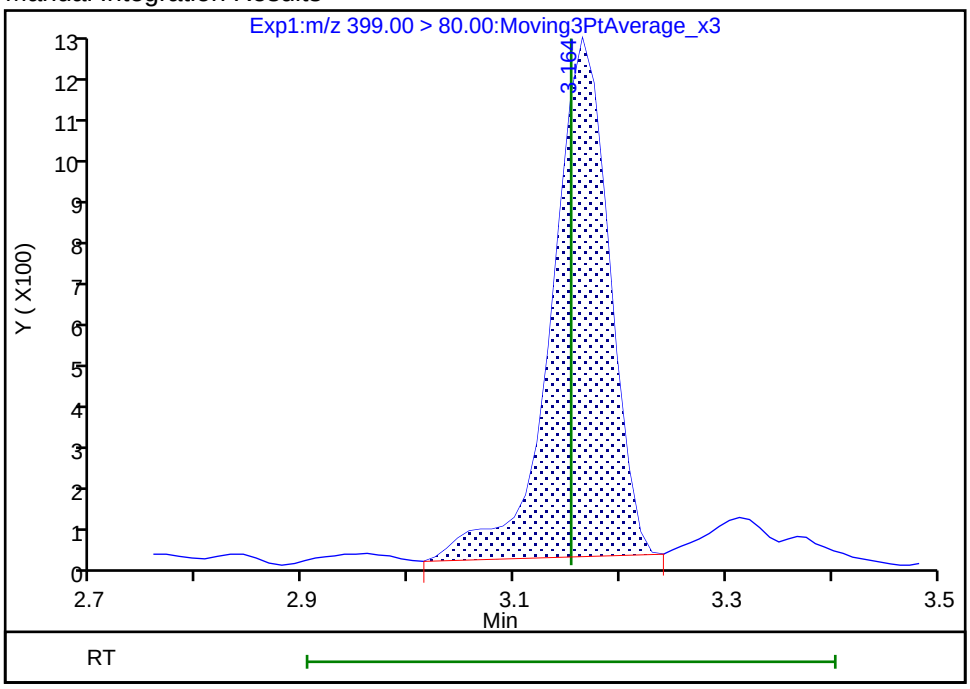
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.16
Area: 4680
Amount: 0.004876
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:06:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

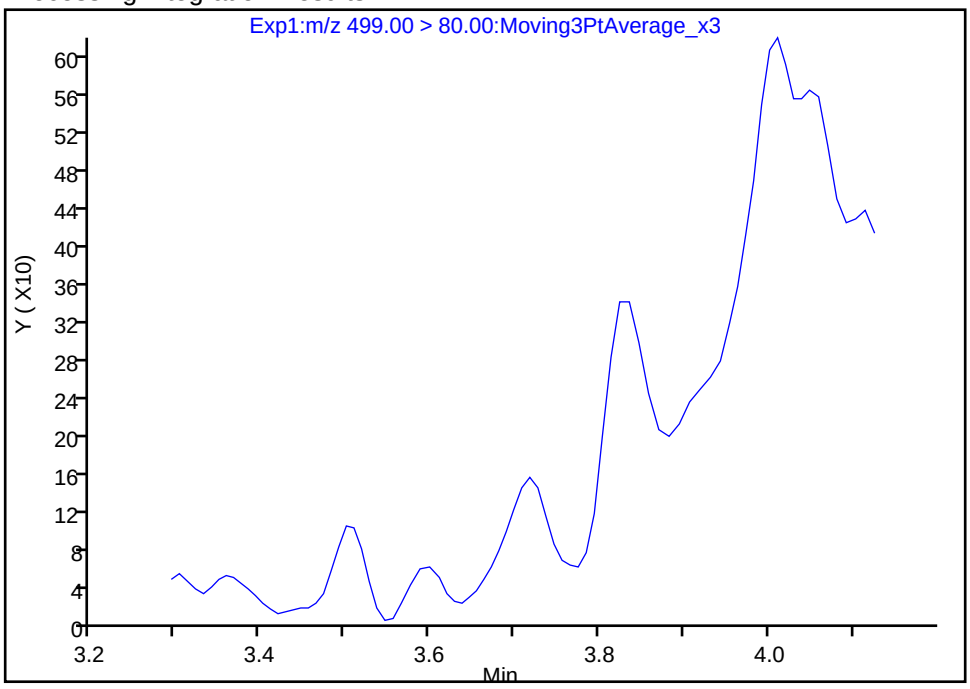
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Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

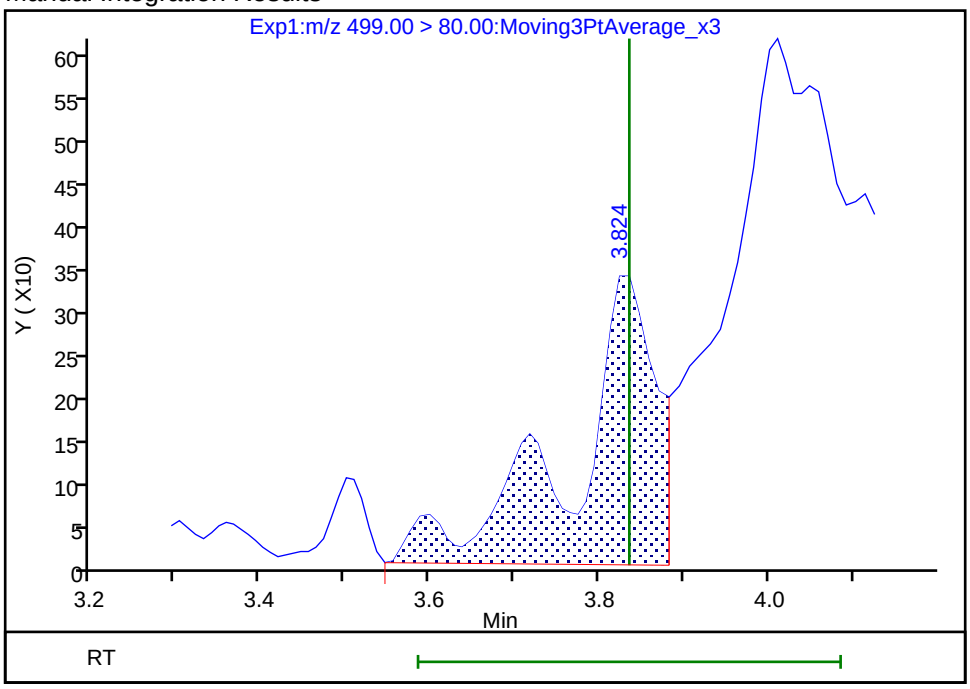
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 2309
Amount: 0.003454
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:08:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

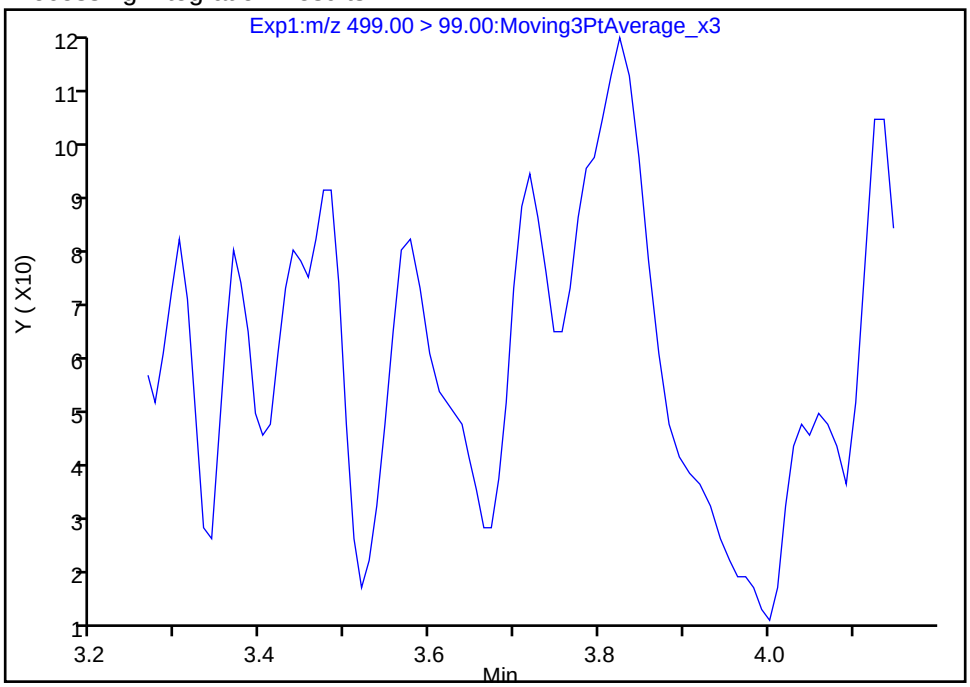
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d
Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

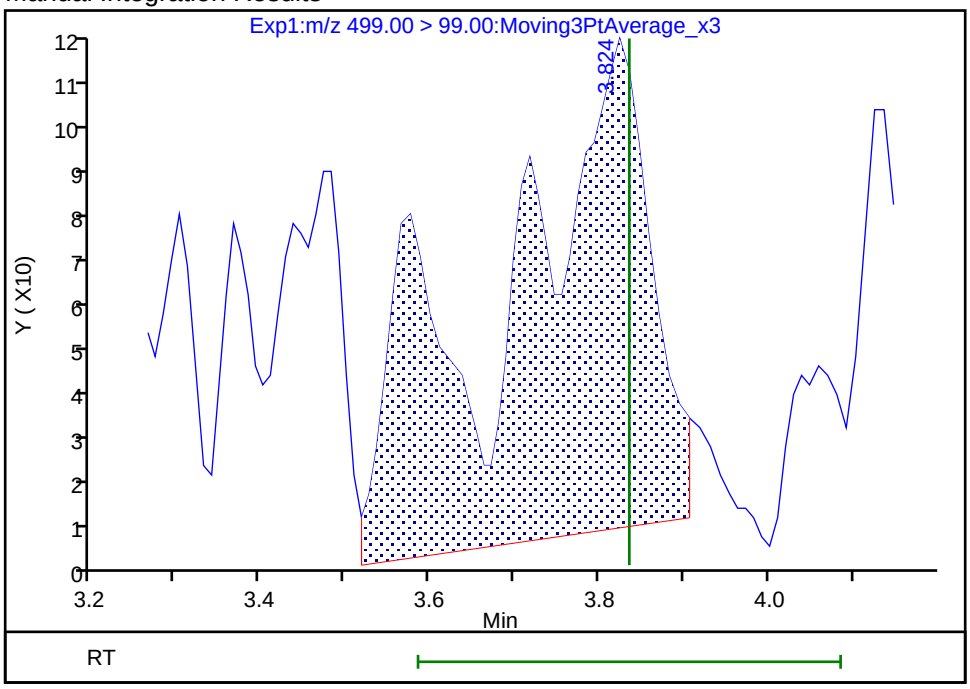
Not Detected
Expected RT: 3.84

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 1267
Amount: 0.003454
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:10:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

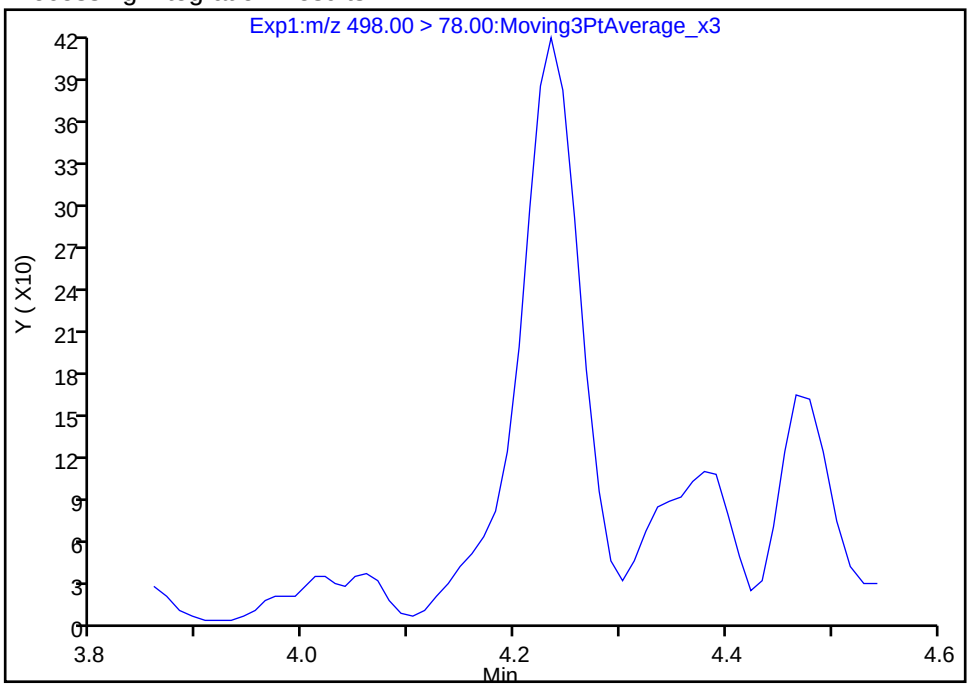
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d
Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

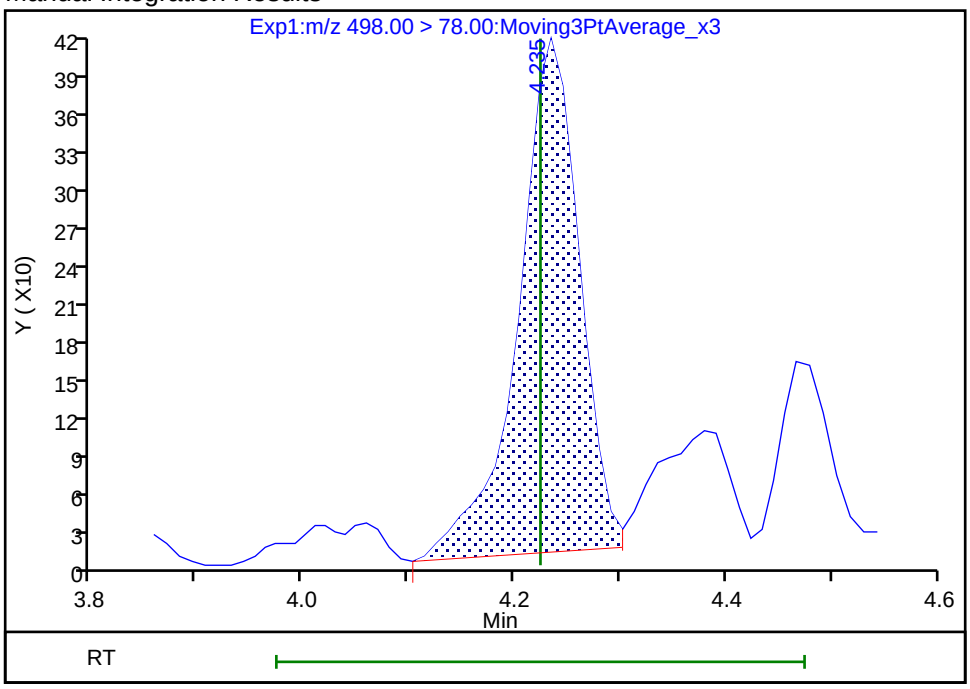
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 1612
Amount: 0.001807
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:12:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

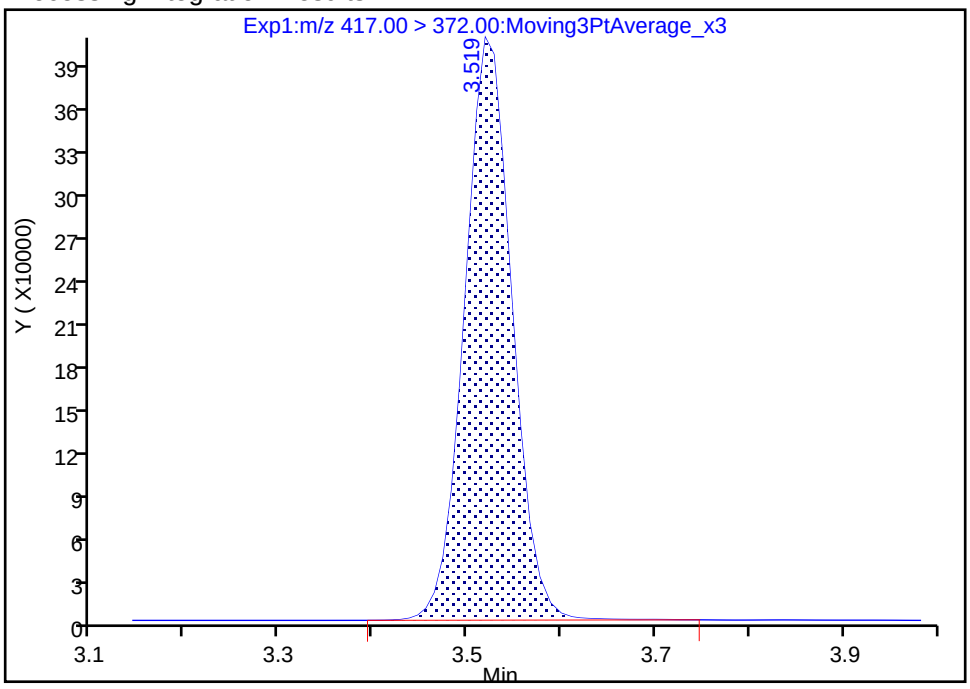
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

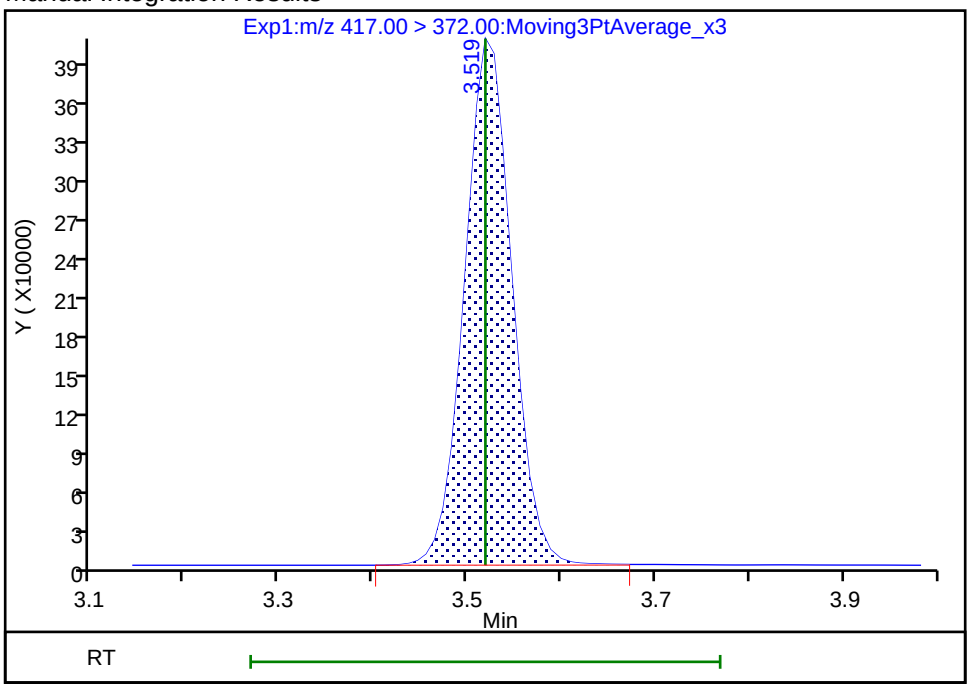
Processing Integration Results

RT: 3.52
Area: 1411910
Amount: 1.306630
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 1412307
Amount: 1.306997
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:00:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

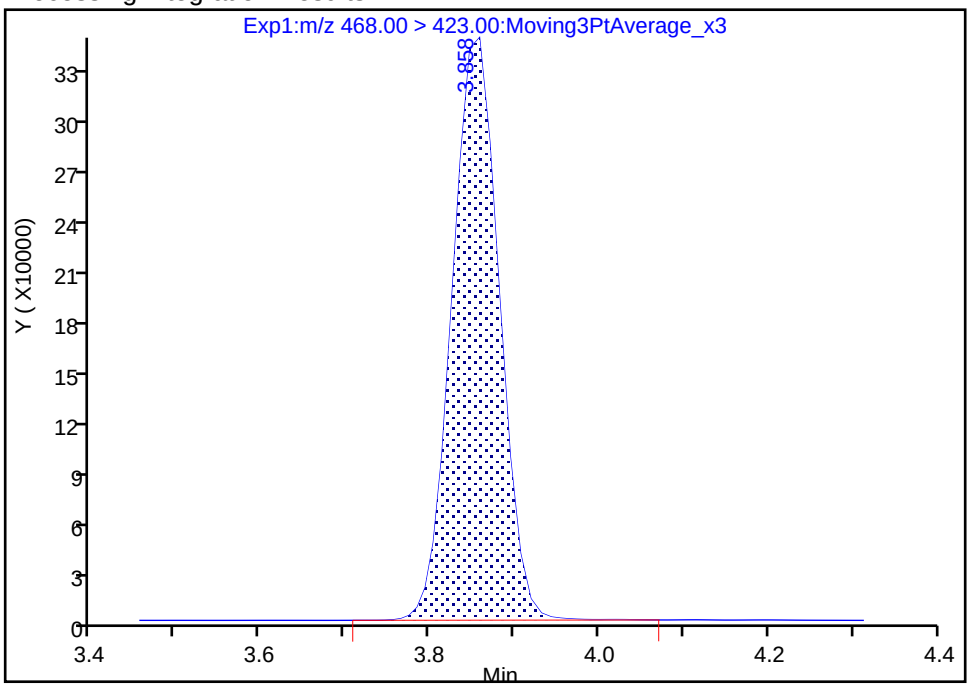
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d
Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

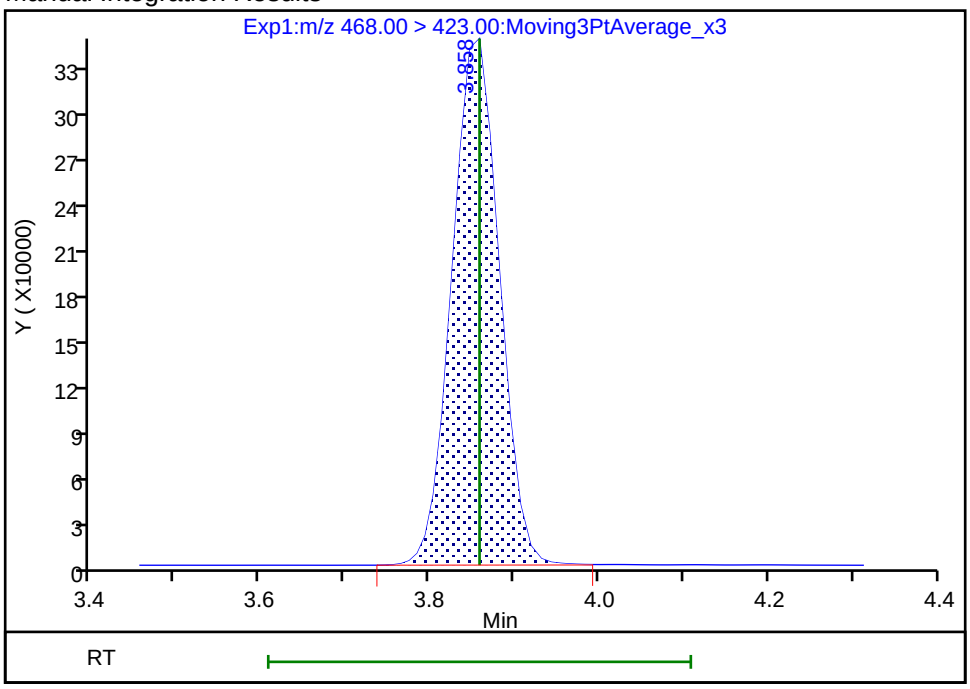
Processing Integration Results

RT: 3.86
Area: 1336572
Amount: 1.302202
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 1335807
Amount: 1.301457
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:01:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

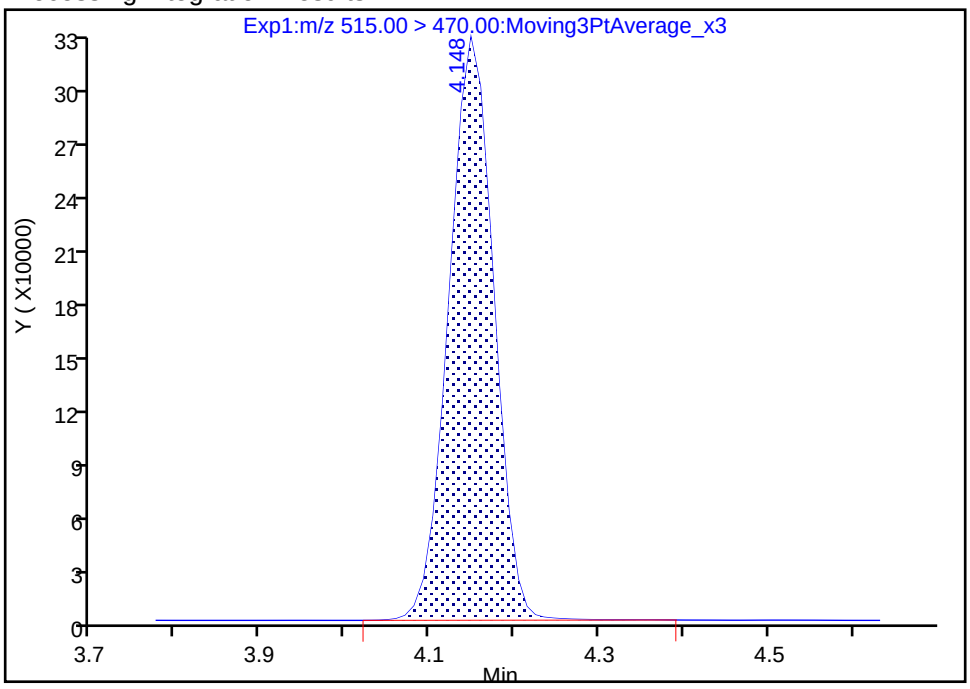
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Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

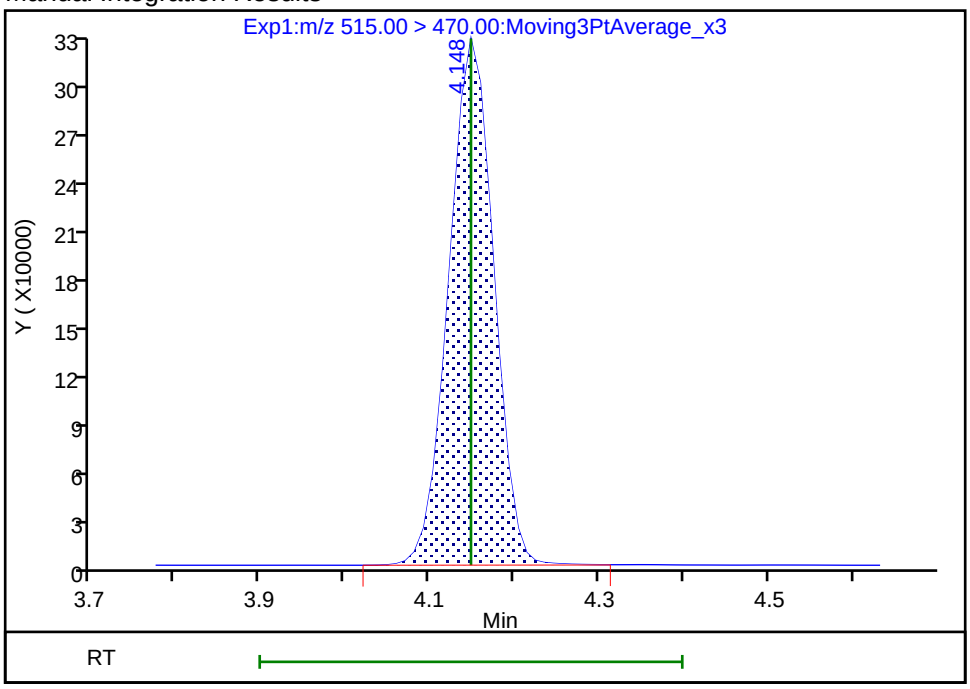
Processing Integration Results

RT: 4.15
Area: 1200887
Amount: 1.289904
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 1200250
Amount: 1.289220
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:01:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

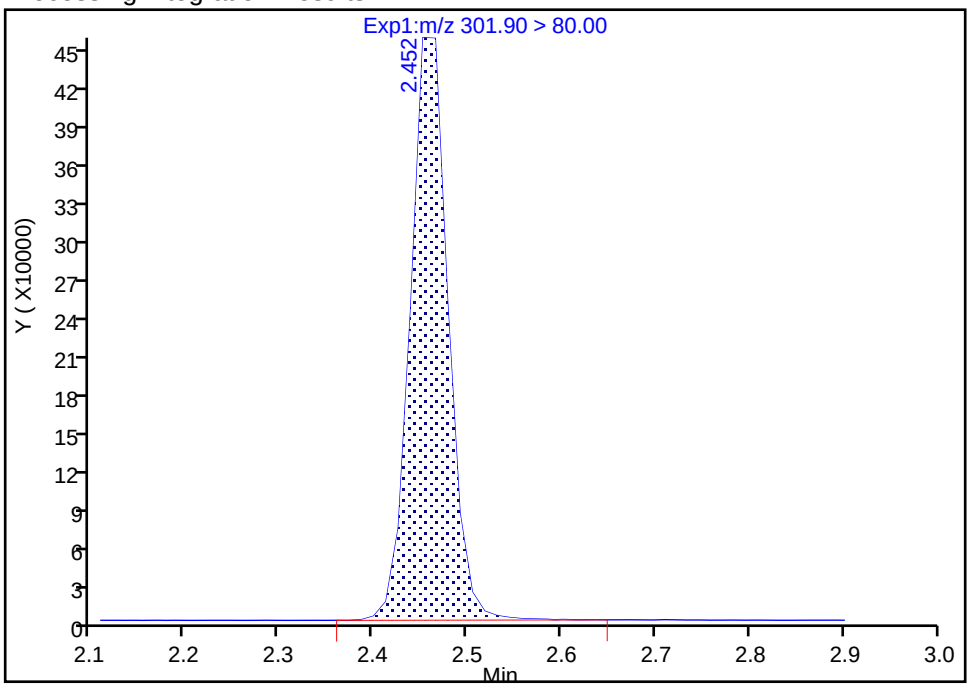
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Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

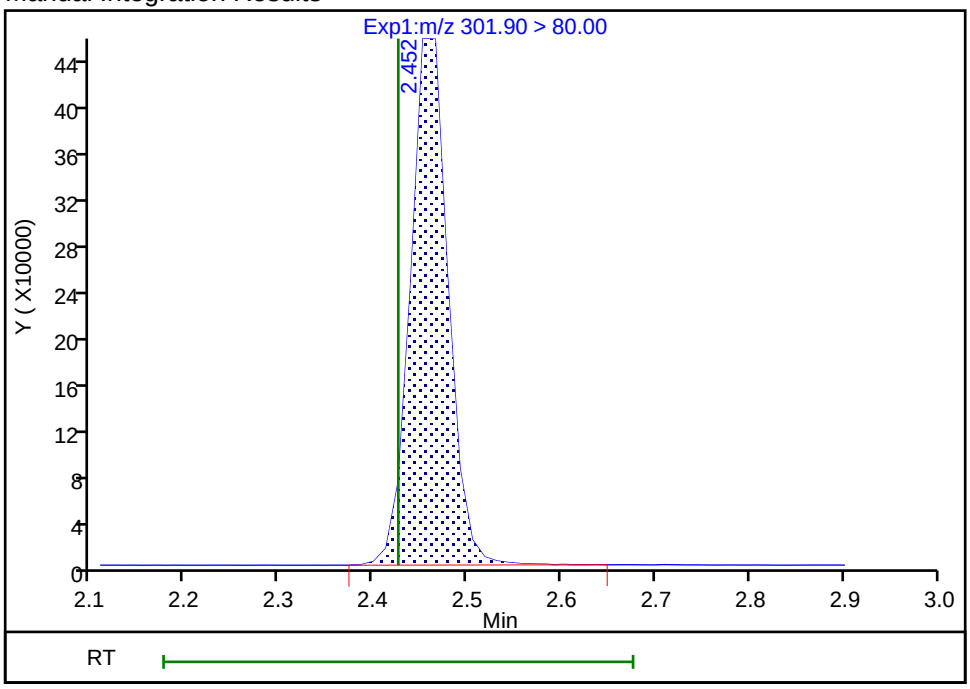
Processing Integration Results

RT: 2.45
Area: 1279452
Amount: 1.274192
Amount Units: ng/ml



Manual Integration Results

RT: 2.45
Area: 1279359
Amount: 1.274100
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:59:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

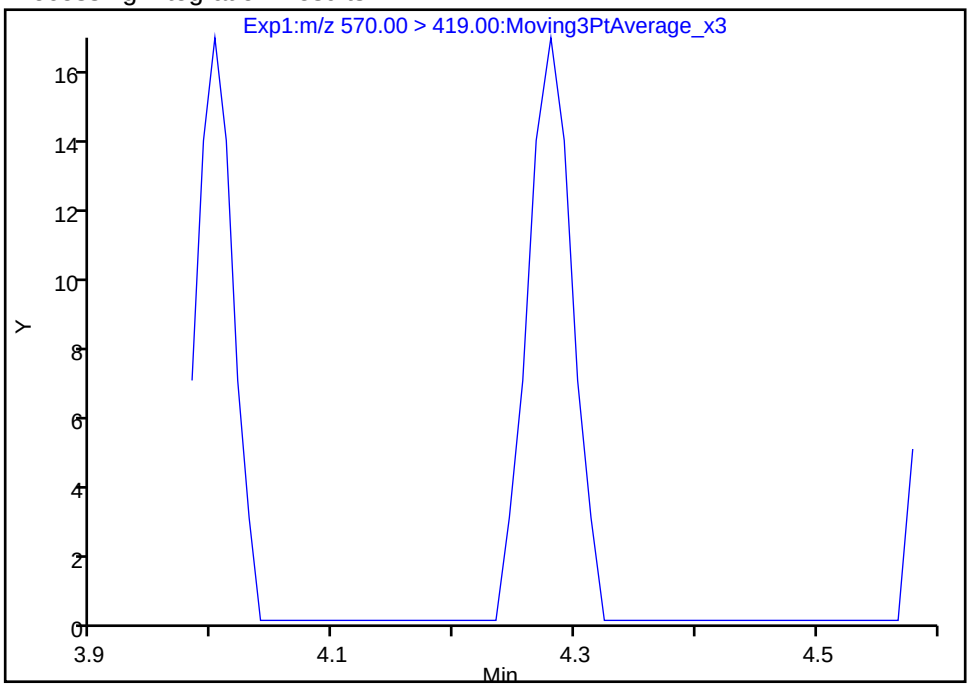
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

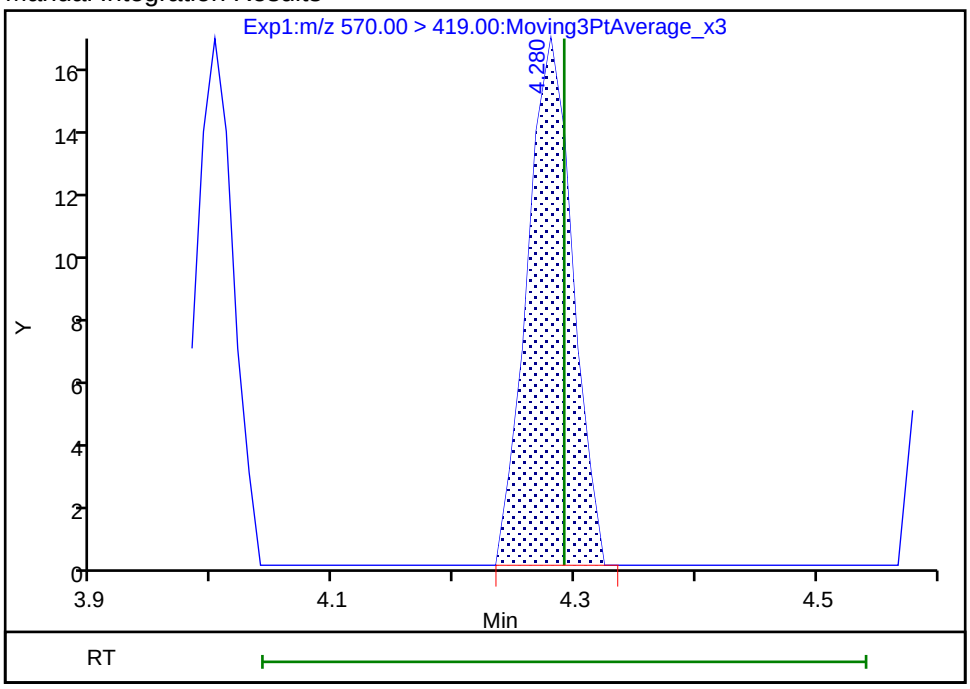
Not Detected
Expected RT: 4.29

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 44
Amount: 0.000759
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:12:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

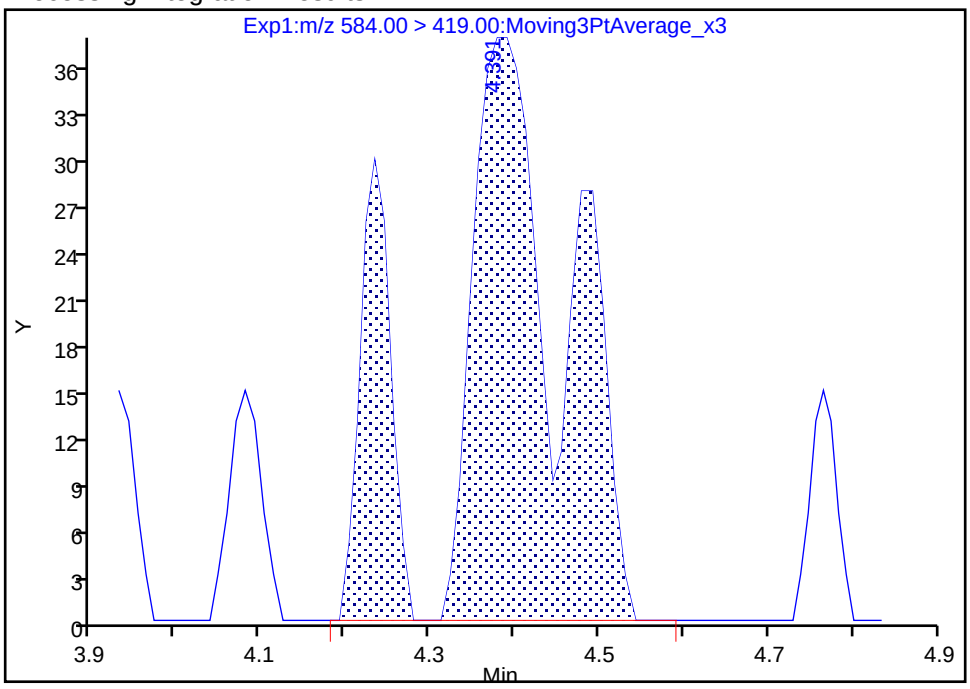
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

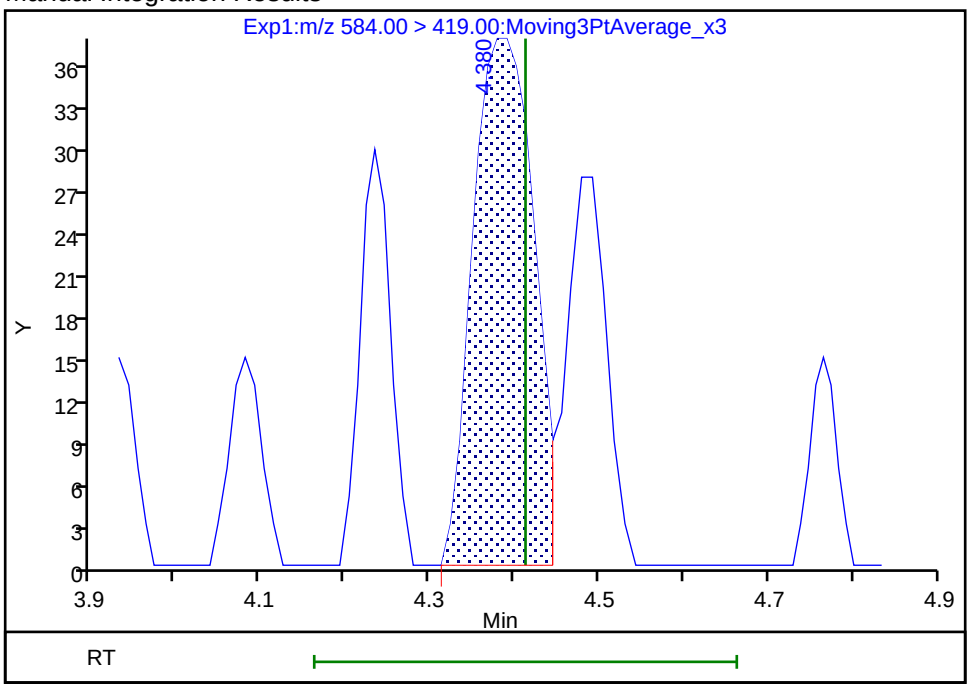
Processing Integration Results

RT: 4.39
Area: 356
Amount: 0.006071
Amount Units: ng/ml



Manual Integration Results

RT: 4.38
Area: 189
Amount: 0.003223
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:12:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

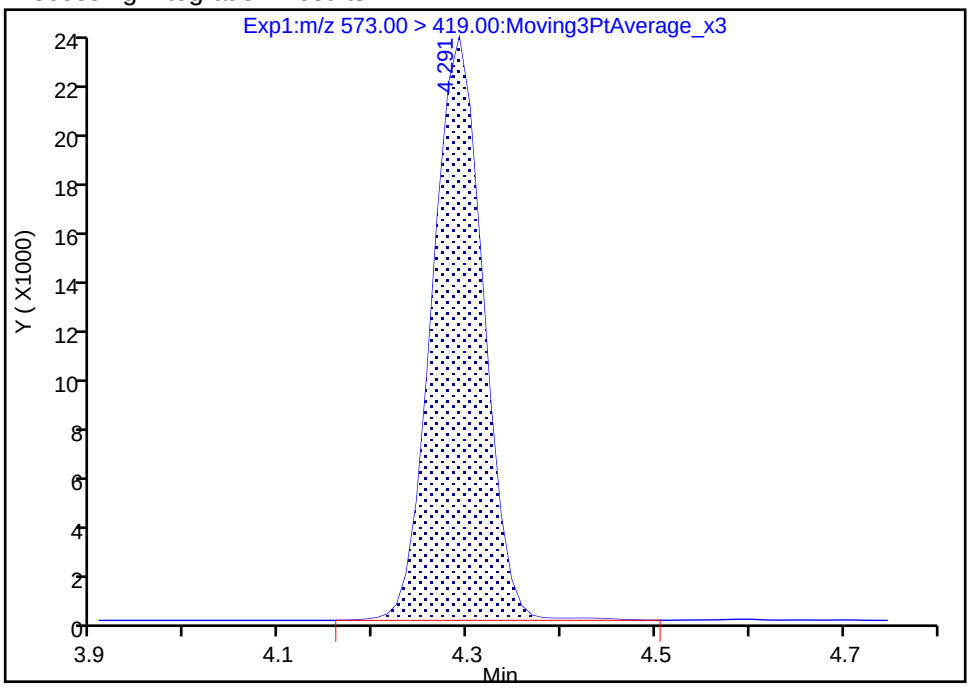
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A08.d				
Injection Date:	11-Aug-2021 13:43:34	Instrument ID:	LC812		
Lims ID:	MB 200-170043/1-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	5	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

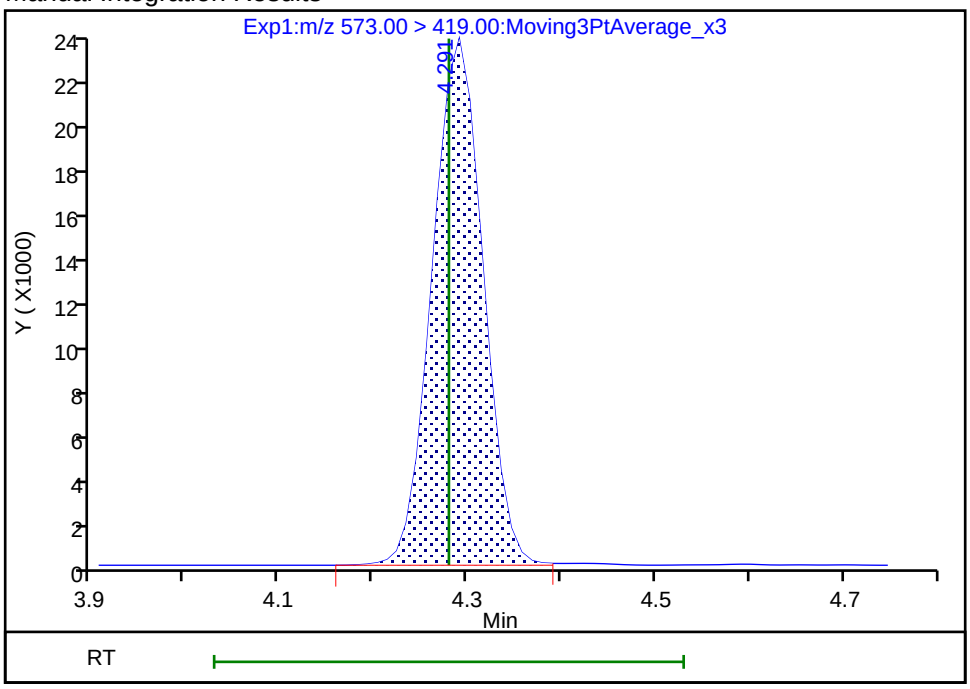
Processing Integration Results

RT: 4.29
Area: 87473
Amount: 1.277572
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 87150
Amount: 1.272855
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:01:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

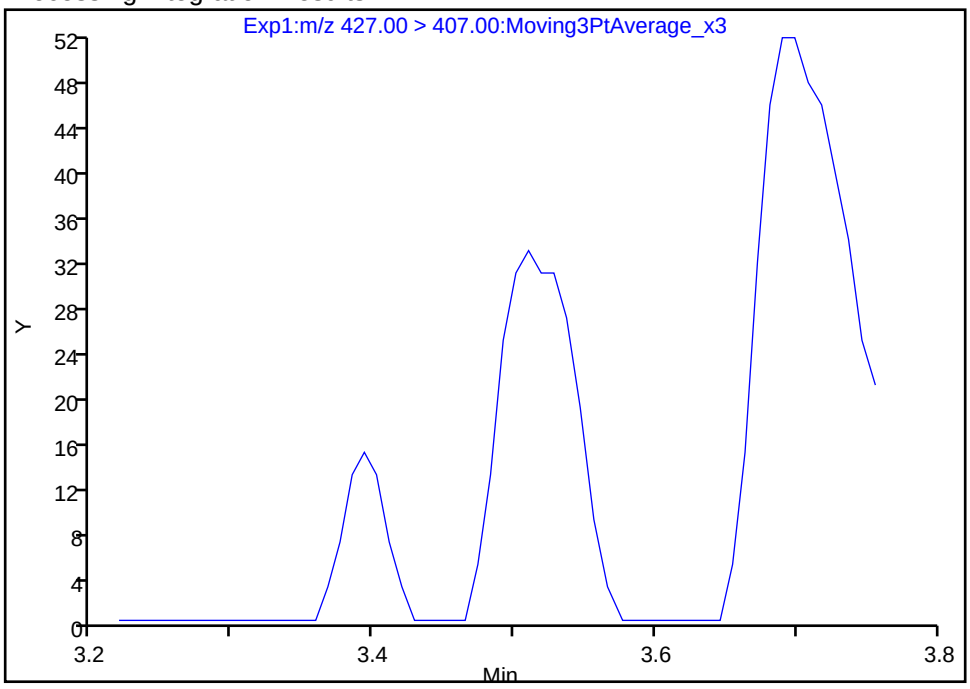
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Injection Date: 11-Aug-2021 13:43:34 Instrument ID: LC812
Lims ID: MB 200-170043/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

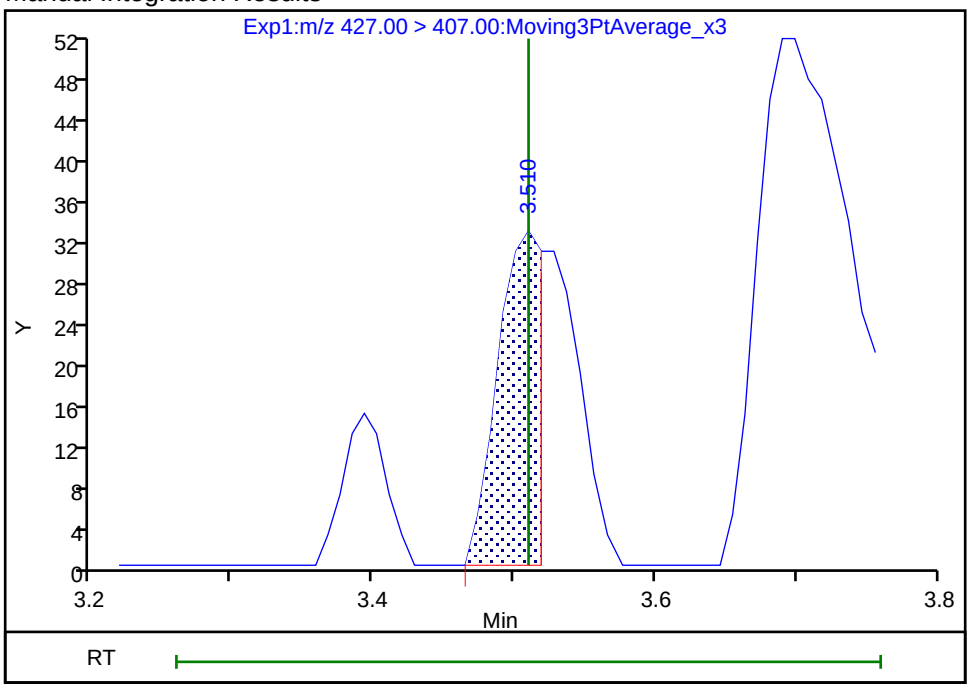
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 66
Amount: 0.000547
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:07:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 200-168873/8

Matrix: Water Lab File ID: PA210708ICAL08.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 07/08/2021 16:08

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 168873 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.13	0.022
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.050	0.012
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.050	0.011
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.00677	J	0.050	0.0060
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.050	0.011
375-95-1	Perfluorononanoic acid (PFNA)	0.00726	J	0.050	0.0070
335-76-2	Perfluorodecanoic acid (PFDA)	0.00691	J	0.050	0.0062
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.050	0.0086
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.050	0.0096
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.050	0.0074
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.050	0.012
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.00630	J	0.050	0.0046
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.00891	J	0.050	0.0071
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.00628	J	0.050	0.0059
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.050	0.0058
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0103	J	0.050	0.0073
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		0.050	0.0084
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.0270	J	0.13	0.019
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	0.0249	J	0.13	0.019
27619-97-2	6:2 FTS	ND		0.13	0.015
39108-34-4	8:2 FTS	ND		0.050	0.0080

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: ICB 200-168873/8

Matrix: Water Lab File ID: PA210708ICAL08.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: Date Extracted:

Sample wt/vol: 1(mL) Date Analyzed: 07/08/2021 16:08

Con. Extract Vol.: Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 168873 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	99		25-150
STL00992	13C4 PFBA	104		25-150
STL01893	13C5 PFPeA	106		25-150
STL00993	13C2 PFHxA	106		50-150
STL01892	13C4 PFHpA	106		50-150
STL00990	13C4 PFOA	104		50-150
STL00995	13C5 PFNA	100		50-150
STL00996	13C2 PFDA	102		50-150
STL00997	13C2 PFUnA	101		50-150
STL00998	13C2 PFDoA	105		50-150
STL02116	13C2 PFTeDA	101		50-150
STL02337	13C3 PFBS	106		50-150
STL00994	18O2 PFHxS	100		50-150
STL00991	13C4 PFOS	99		50-150
STL02118	d3-NMeFOSAA	106		50-150
STL02117	d5-NEtFOSAA	102		50-150
STL02279	M2-6:2 FTS	102		25-150
STL02280	M2-8:2 FTS	103		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d
Lims ID: ICB
Client ID:
Sample Type: ICB
Inject. Date: 08-Jul-2021 16:08:42 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: ICB
Misc. Info.: 200-0046726-008 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 08-Jul-2021 16:41:50 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1667

First Level Reviewer: chirgwinb Date: 08-Jul-2021 16:28:10
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	2.109	2.109	0.0	0.602	1683694	1.30		104	9295	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.118	2.109	0.009	1.004	10898	0.008395			1.9	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.426	2.439	-0.013	0.693	1297375	1.32		106	3762	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.426	2.439	-0.013	1.000	8520	0.007932			1.2	M
D 47 13C3 PFBS										
301.90 > 80.00	2.452	2.452	0.0	0.701	1274504	1.23		106	477719	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.452	2.452	0.0	1.000	7459	0.006299	Target=2.20		25.6	M
298.90 > 99.00	2.452	2.452	0.0	1.000	2811		2.65(1.10-3.30)		2.3	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.746	2.758	-0.012	1.000	1040	0.006193			18.3	M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.746	2.758	-0.012	0.784	101686	1.19		102	175	
D 7 13C2 PFHxA										
315.00 > 270.00	2.782	2.795	-0.013	0.795	1436450	1.33		106	4600	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.782	2.795	-0.013	1.000	9998	0.008648	Target=12.93		2.6	M
313.00 > 119.00	2.770	2.795	-0.025	0.996	1229		8.14(6.46-19.39)		2.8	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.782	2.795	-0.013	0.885	6569	0.006455	Target=3.71		35.1	
349.00 > 99.00	2.782	2.795	-0.013	0.885	2233		2.94(1.85-5.56)		4.1	M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.880	2.902	-0.022	0.823	175258	1.50		120	1714	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	3.143	3.154	-0.011	0.898	979047	1.19		100	1670	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.143	3.154	-0.011	1.000	8533	0.008907	Target=4.48		45.9	M
399.00 > 99.00	3.132	3.154	-0.022	0.997	2136		3.99(2.24-6.72)		2.5	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.143	3.154	-0.011	0.898	1427738	1.32		106	3392	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.143	3.154	-0.011	1.000	7990	0.006765	Target=3.68		4.4	
363.00 > 169.00	3.143	3.154	-0.011	1.000	2090		3.82(1.84-5.53)		8.0	
77 DONA										
377.00 > 251.00	3.175	3.196	-0.021	0.832	11717	0.005591	Target=2.47		30.2	
377.00 > 85.00	3.186	3.196	-0.010	0.835	4512		2.60(1.24-3.71)		11.1	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.483	3.501	-0.018	0.913	4652	0.006279	Target=6.56		41.2	
449.00 > 99.00	3.510	3.501	0.009	0.920	525		8.86(3.28-9.84)		3.3	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.492	3.501	-0.009	0.997	139071	1.22		102	713	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.483	3.501	-0.018	0.997	750	0.006179			12.1	M
D 14 13C4 PFOA										
417.00 > 372.00	3.501	3.510	-0.009	1.000	1451692	1.30		104	3005	
* 62 13C2 PFOA										
415.00 > 370.00	3.501	3.510	-0.009		1414552	1.25			3926	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.501	3.510	-0.009	1.000	9185	0.007515	Target=2.67		4.5	M
413.00 > 169.00	3.501	3.510	-0.009	1.000	3765		2.44(1.33-4.00)		9.9	M
D 18 13C4 PFOS										
503.00 > 80.00	3.814	3.814	0.0	1.089	711019	1.18		98.8	3497	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.814	3.824	-0.010	1.000	6883	0.0103	Target=6.69		12.0	M
499.00 > 99.00	3.814	3.824	-0.010	1.000	1799		3.83(3.34-10.03)		6.2	M
D 19 13C5 PFNA										
468.00 > 423.00	3.836	3.836	0.0	1.096	1330234	1.25		100	4274	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.836	3.847	-0.011	1.000	7470	0.007260	Target=7.21		3.2	
463.00 > 169.00	3.824	3.847	-0.023	0.997	936		7.98(3.60-10.81)		11.7	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.974	3.983	-0.009	1.042	4422	0.006065			42.4	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.104	4.104	0.0	1.076	2941	0.005957	Target=3.20		47.6	
549.00 > 99.00	4.104	4.104	0.0	1.076	1518		1.94(1.60-4.80)		7.2	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.137	0.0	1.182	1233212	1.28		102	3975	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.137	4.137	0.0	1.000	7253	0.006907	Target=8.42		8.4	R
513.00 > 169.00	4.137	4.137	0.0	1.000	351		20.66(4.21-12.63)		3.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.115	4.148	-0.033	0.995	458	0.006540			12.5	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.137	4.148	-0.011	1.182	168326	1.24		103	993	
D 21 13C8 FOSA										
506.00 > 78.00	4.204	4.214	-0.010	1.201	1318262	1.24		99.3	3452	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.214	0.001	1.002	7123	0.006905			17.2	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.280	0.0	1.223	93571	1.32		106	899	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.280	4.280	0.0	1.000	1679	0.0270			12.9	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.369	4.369	0.0	1.145	2035	0.005400	Target=2.66		31.9	
599.00 > 99.00	4.369	4.369	0.0	1.145	932		2.18(1.33-3.99)		7.3	
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.402	0.0	1.257	963275	1.26		101	5418	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.402	4.402	0.0	1.000	4768	0.006395	Target=7.70		8.1	
563.00 > 169.00	4.402	4.402	0.0	1.000	467		10.21(3.85-11.56)		6.1	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.413	0.0	1.261	93968	1.28		102	700	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.413	4.413	0.0	1.000	1586	0.0249			22.7	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.479	4.492	-0.013	1.174	3477	0.005775			45.6	
D 36 13C2 PFDoA										
615.00 > 570.00	4.633	4.633	0.001	1.323	1034177	1.31		105	3428	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.633	4.633	0.001	1.000	6519	0.007806	Target=6.31		2.9	
613.00 > 169.00	4.633	4.633	0.001	1.000	918		7.10(3.15-9.46)		11.4	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.653	4.643	0.010	1.125	258	0.007278			8.1	M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.811	4.801	0.009	1.261	752	0.005865	Target=0.45		21.5	
699.00 > 99.00	4.811	4.801	0.009	1.261	1660		0.45(0.23-0.68)		18.4	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.845	4.845	0.0	1.046	4525	0.006285	Target=4.61		2.0	
663.00 > 169.00	4.845	4.845	0.0	1.046	967		4.68(2.31-6.92)		17.1	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.034	5.034	0.0	1.438	777429	1.26		101	3064	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.044	5.034	0.010	1.002	1245	0.0116	Target=1.00		28.2	
713.00 > 219.00	5.034	5.034	0.0	1.000	1014		1.23(0.50-1.51)		28.4	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.394	5.383	0.011	1.541	834864	1.33		106	3036	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.394	5.383	0.011	1.000	13256	0.0110	Target=4.32		7.9	M
813.00 > 169.00	5.394	5.383	0.011	1.000	3217		4.12(2.16-6.48)		65.1	M
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.729	5.701	0.028	1.062	5752	0.0102	Target=3.72		5.1	
913.00 > 169.00	5.729	5.701	0.028	1.062	1678		3.43(1.86-5.58)		36.9	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCBLK20_00011 Amount Added: 100.00 Units: uL

Report Date: 08-Jul-2021 16:41:58 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d

Injection Date: 08-Jul-2021 16:08:42 Instrument ID: LC812

Lims ID: ICB

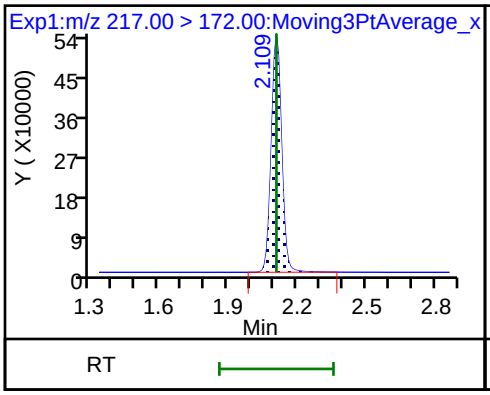
Client ID:

Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8

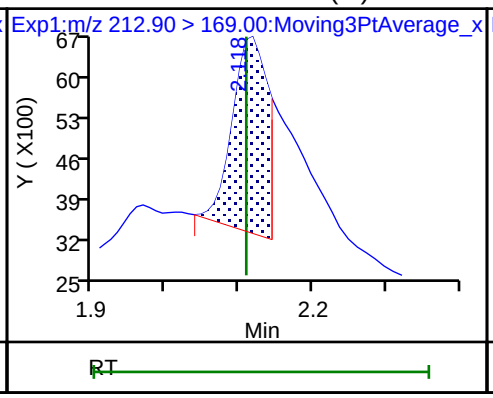
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

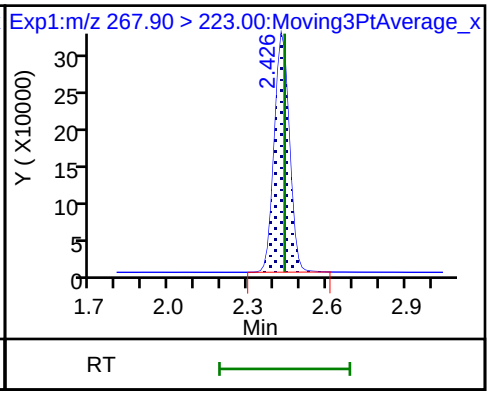
D 1 13C4 PFBA



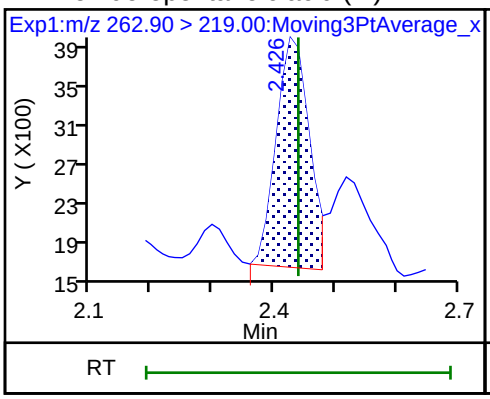
2 Perfluorobutanoic acid (M)



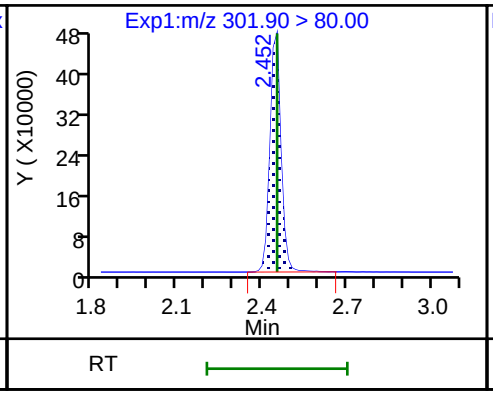
D 3 13C5 PFPeA



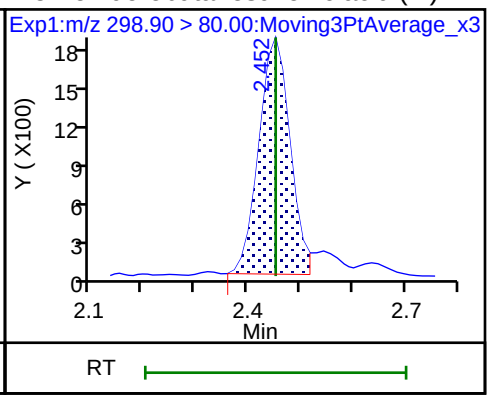
4 Perfluoropentanoic acid (M)



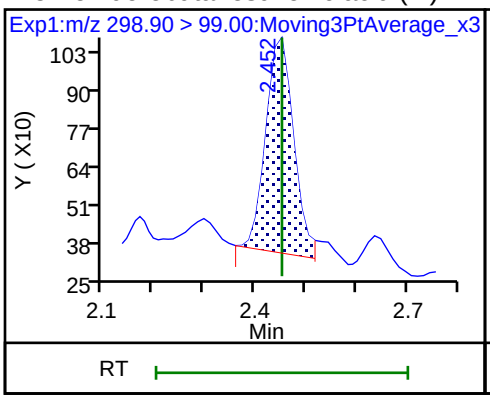
D 47 13C3 PFBS



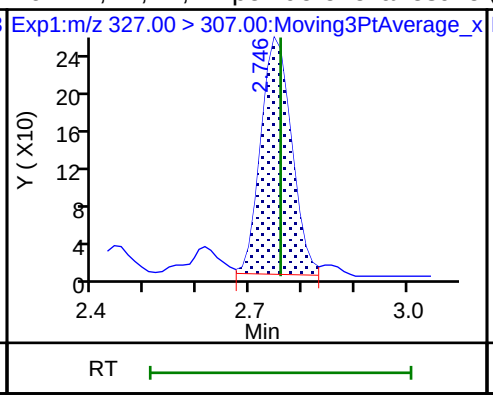
5 Perfluorobutanesulfonic acid (M)



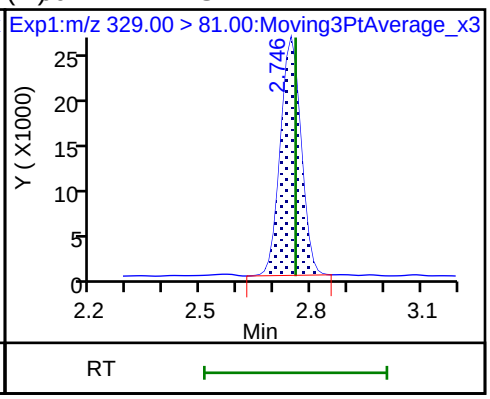
5 Perfluorobutanesulfonic acid (M)



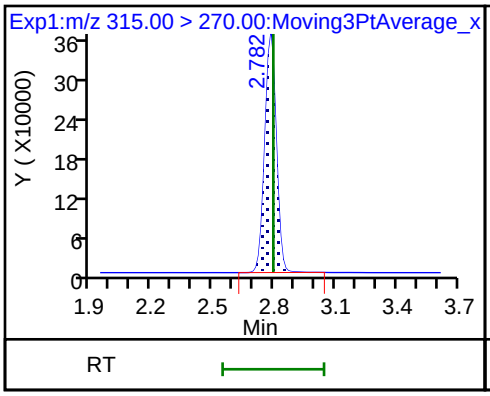
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



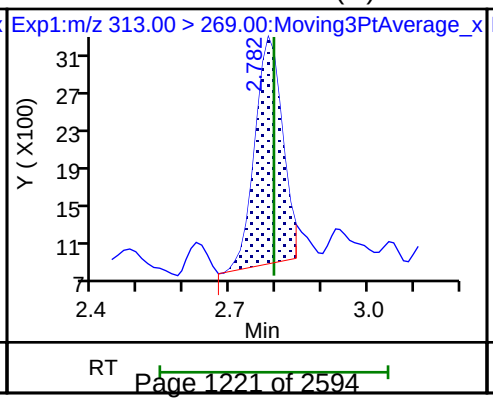
60 M2-4:2 FTS



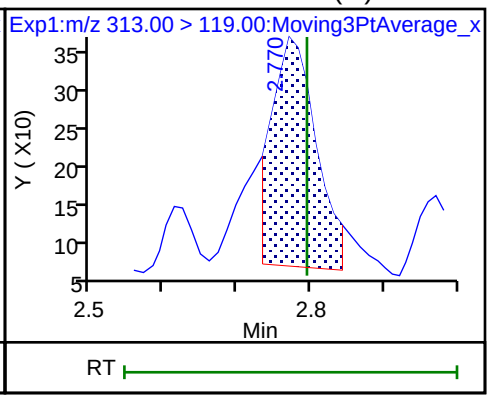
D 7 13C2 PFHxA



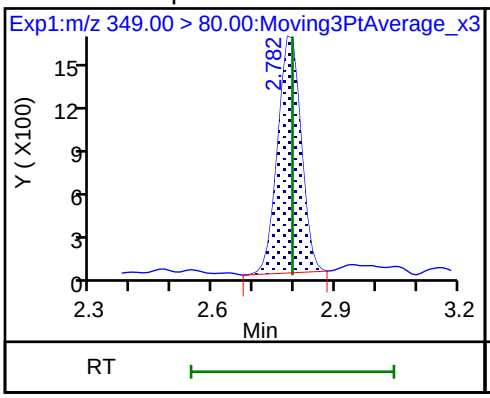
6 Perfluorohexanoic acid (M)



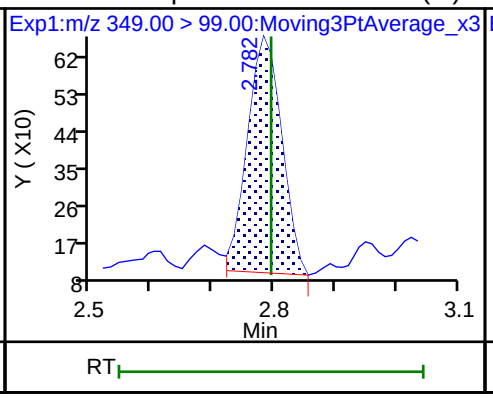
6 Perfluorohexanoic acid (M)



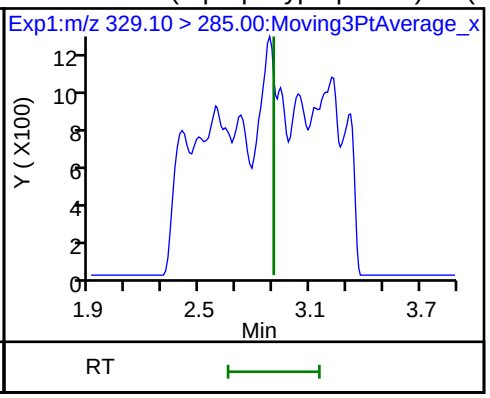
70 Perfluoropentanesulfonic acid



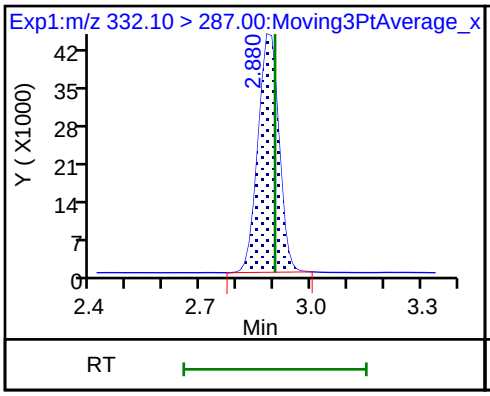
70 Perfluoropentanesulfonic acid (M)



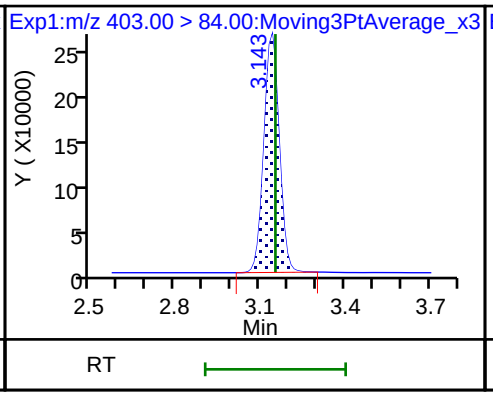
67 Perfluoro(2-propoxypropanoic) ac (ND)



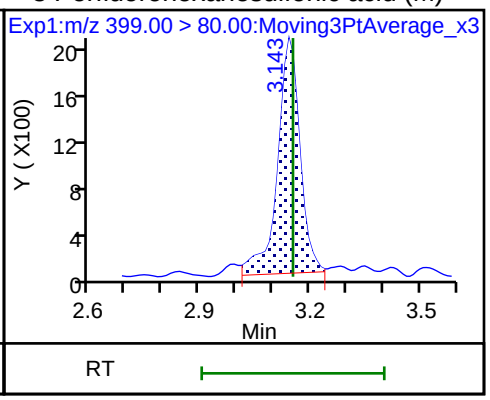
D 64 13C3 HFPO-DA



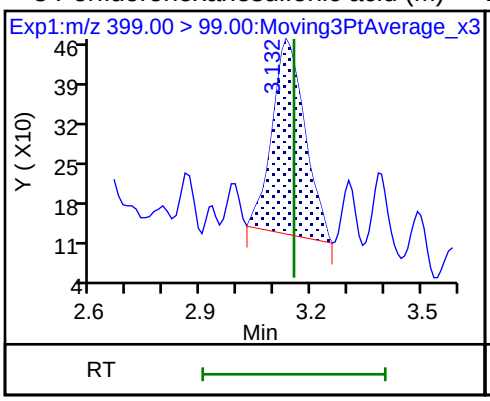
D 11 18O2 PFHxS



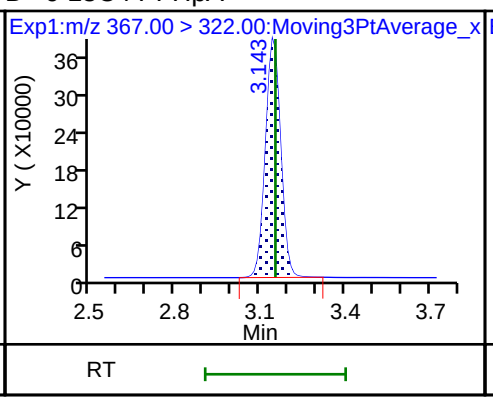
8 Perfluorohexanesulfonic acid (M)



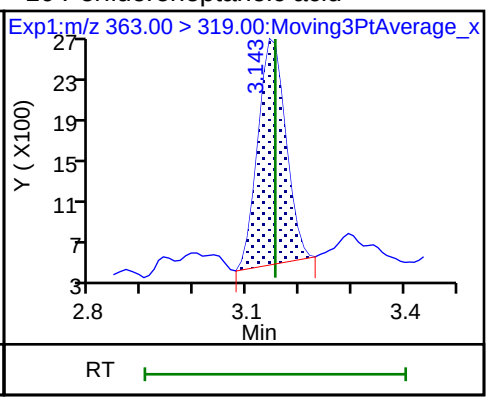
8 Perfluorohexanesulfonic acid (M)



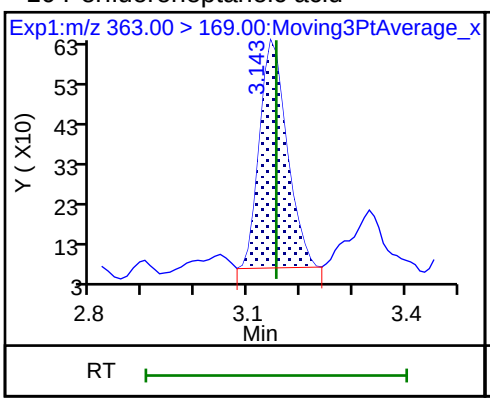
D 9 13C4 PFHpA



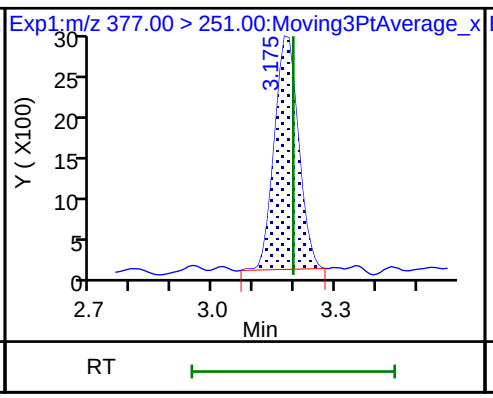
10 Perfluoroheptanoic acid



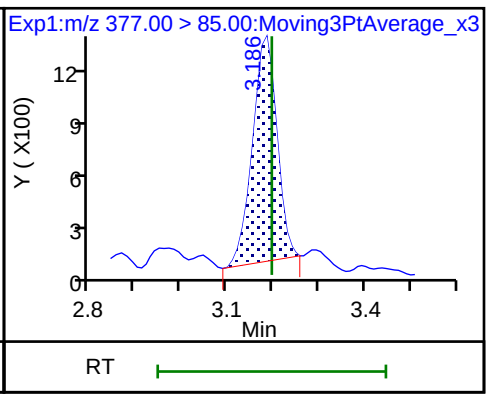
10 Perfluoroheptanoic acid



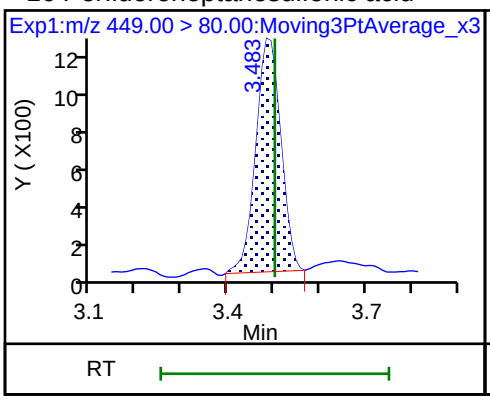
77 DONA



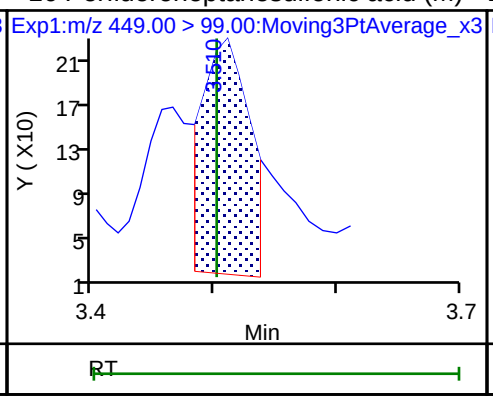
77 DONA



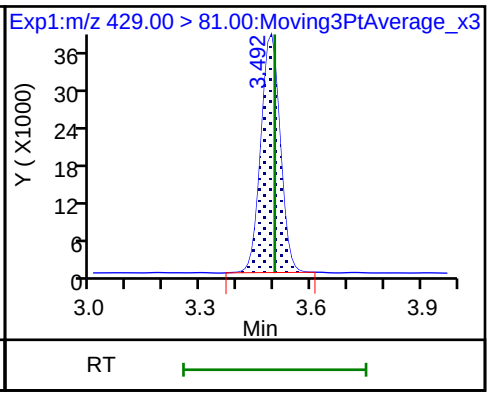
16 Perfluoroheptanesulfonic acid



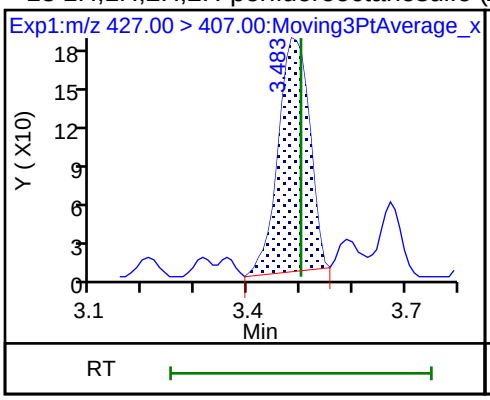
16 Perfluoroheptanesulfonic acid (M)



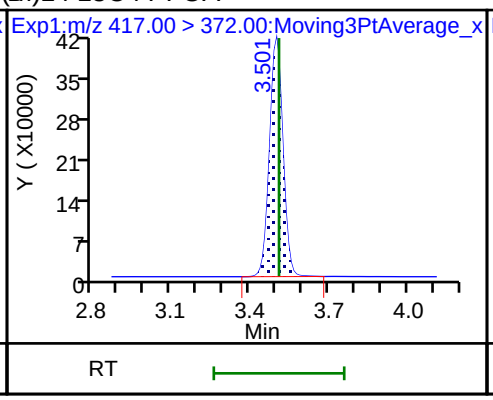
D 12 M2-6:2 FTS



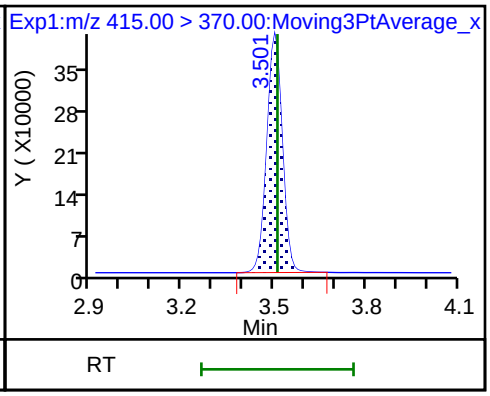
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



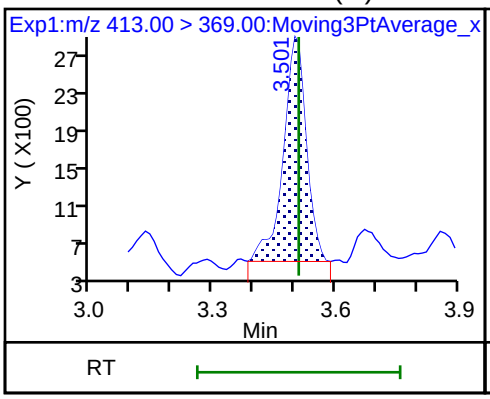
14 13C4 PFOA



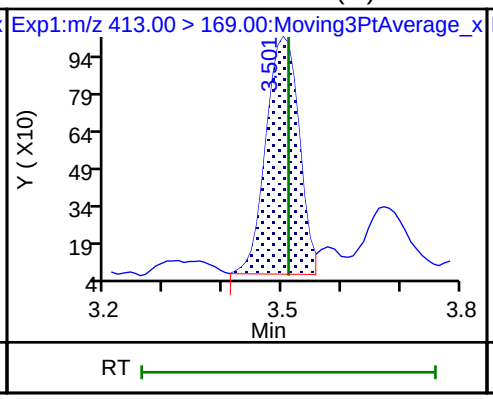
* 62 13C2 PFOA



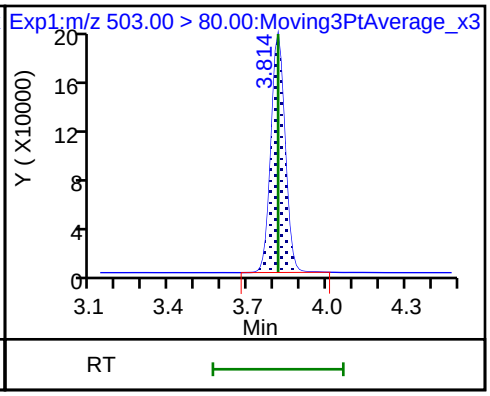
15 Perfluorooctanoic acid (M)



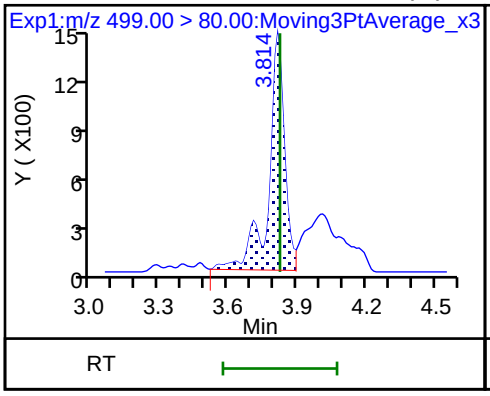
15 Perfluorooctanoic acid (M)



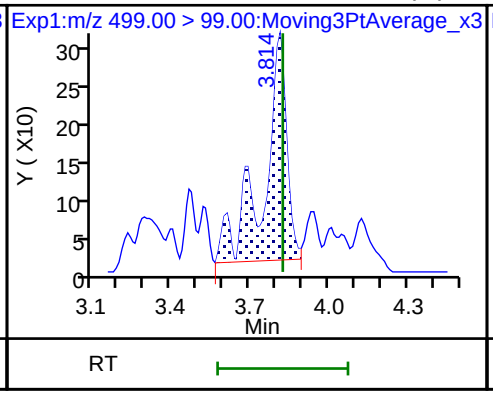
D 18 13C4 PFOS



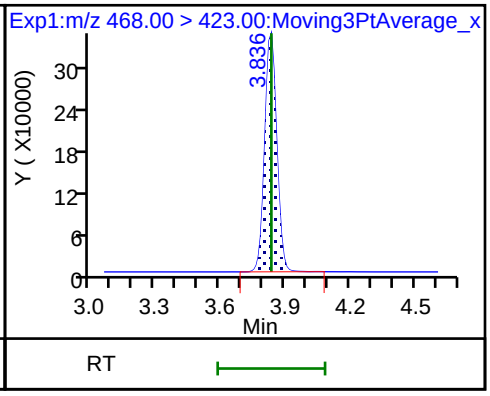
17 Perfluorooctanesulfonic acid (M)



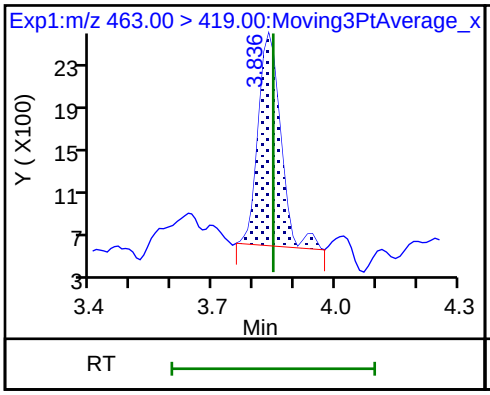
17 Perfluorooctanesulfonic acid (M)



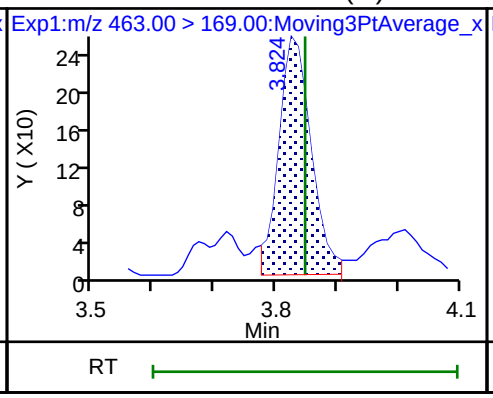
D 19 13C5 PFNA



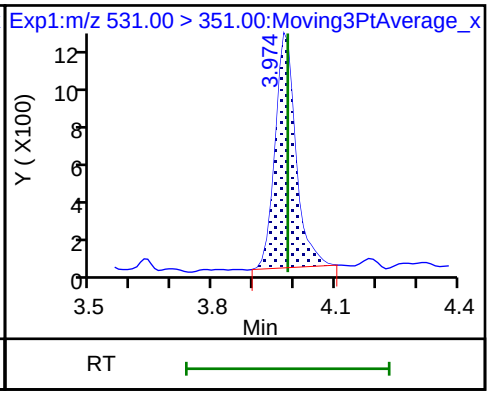
20 Perfluorononanoic acid



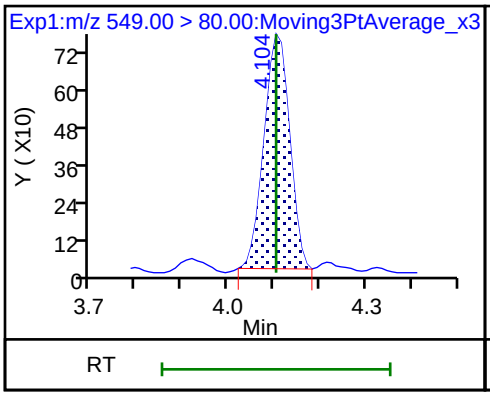
20 Perfluorononanoic acid (M)



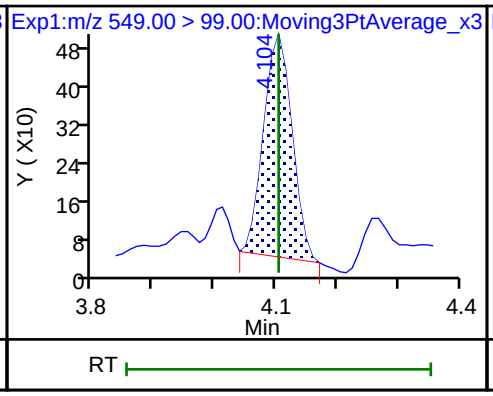
69 9-Chlorohexadecafluoro-3-oxanona (M)



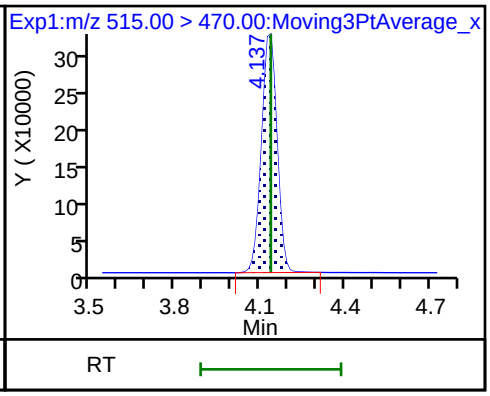
68 Perfluorononanesulfonic acid



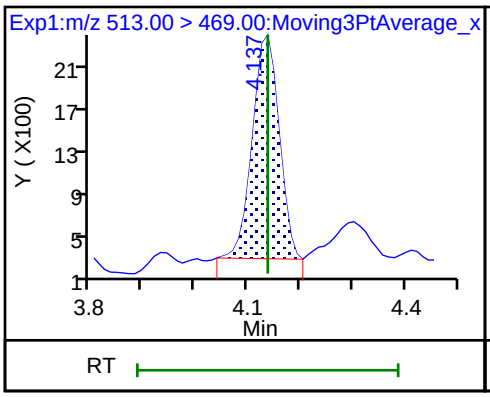
68 Perfluorononanesulfonic acid



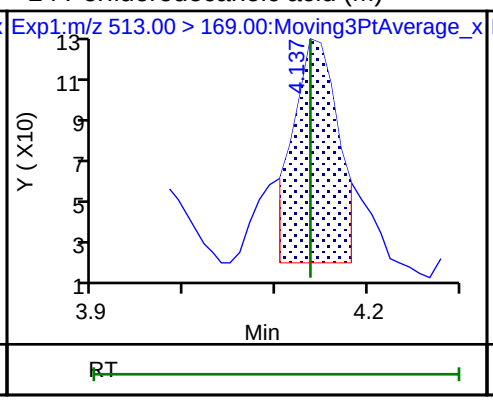
D 23 13C2 PFDA



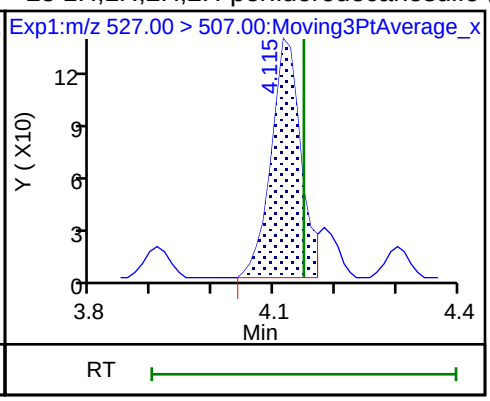
24 Perfluorodecanoic acid



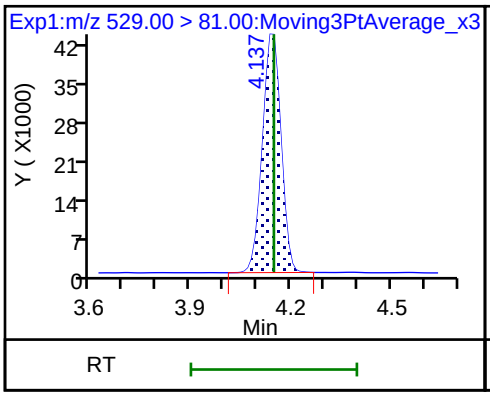
24 Perfluorodecanoic acid (M)



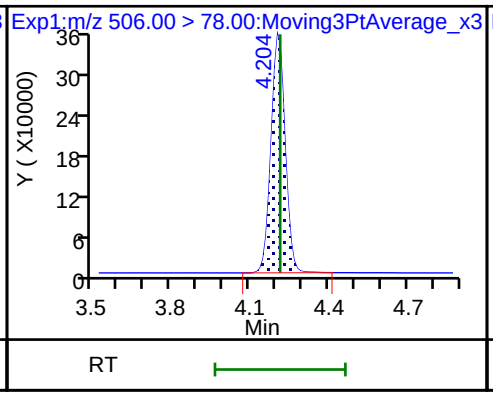
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



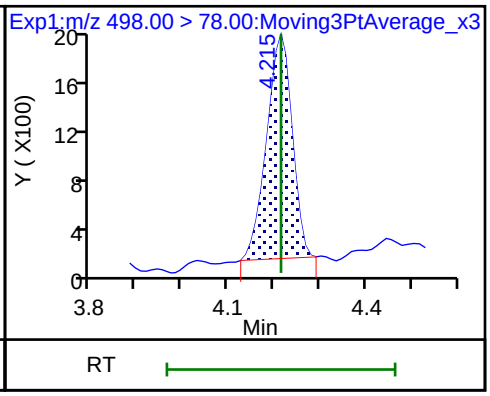
D 26 M2-8:2 FTS



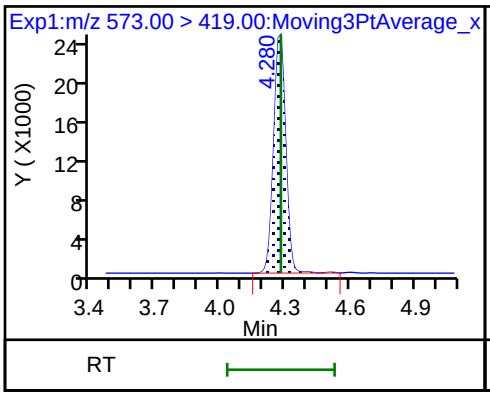
D 21 13C8 FOSA



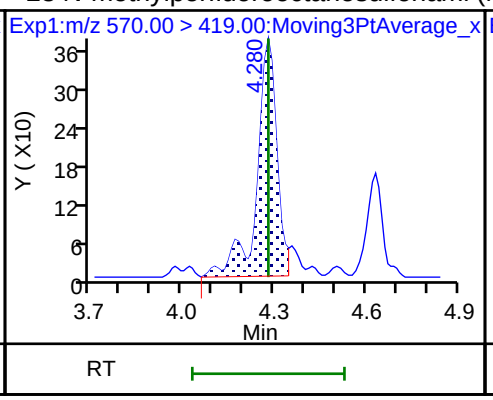
22 Perfluorooctanesulfonamide



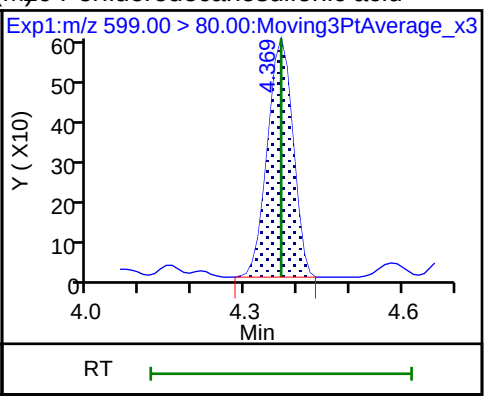
D 27 d3-NMeFOSAA



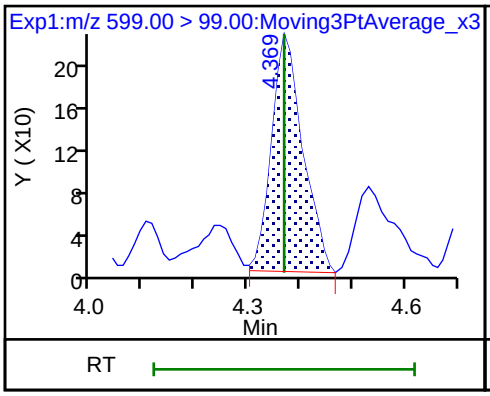
28 N-methylperfluorooctanesulfonami (M)



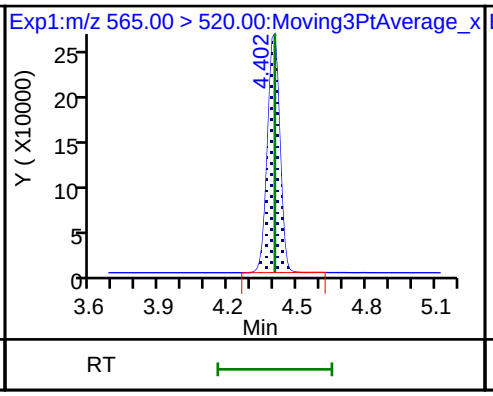
29 Perfluorodecanesulfonic acid



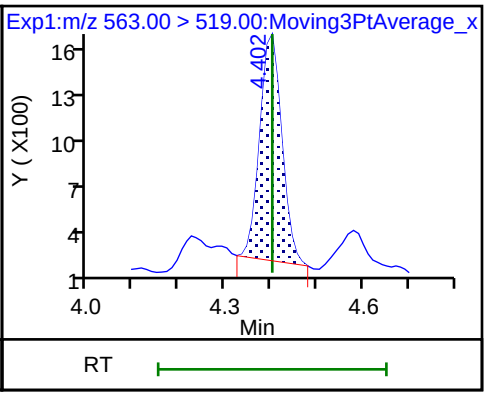
29 Perfluorodecanesulfonic acid



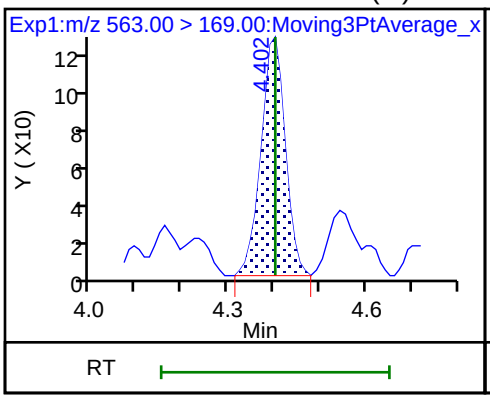
D 30 13C2 PFUnA



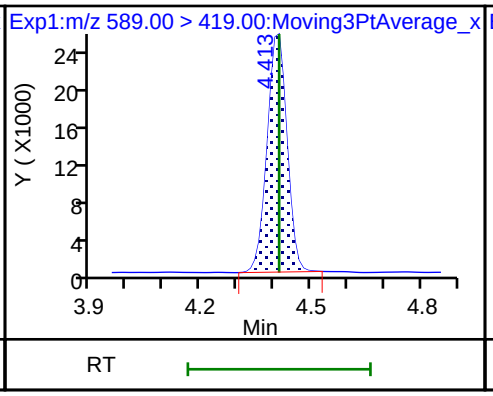
31 Perfluoroundecanoic acid



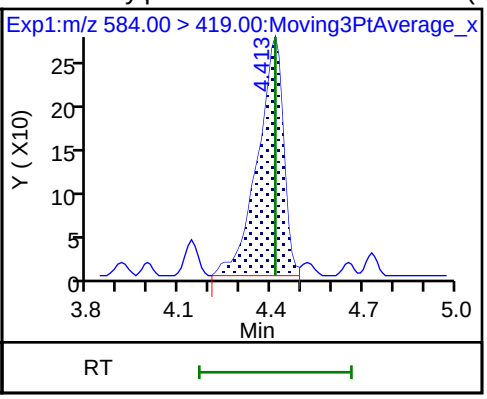
31 Perfluoroundecanoic acid (M)



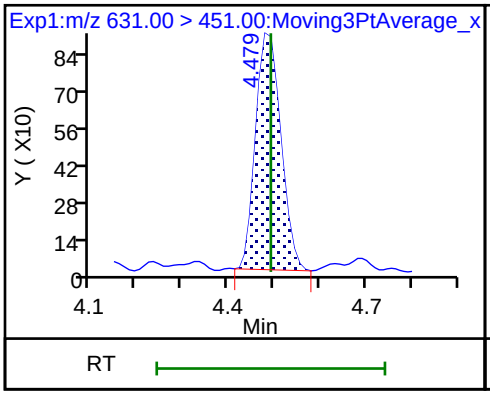
D 32 d5-NEtFOSAA



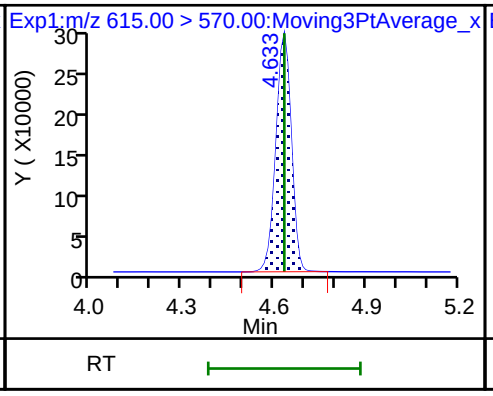
33 N-ethylperfluorooctanesulfonamid (M)



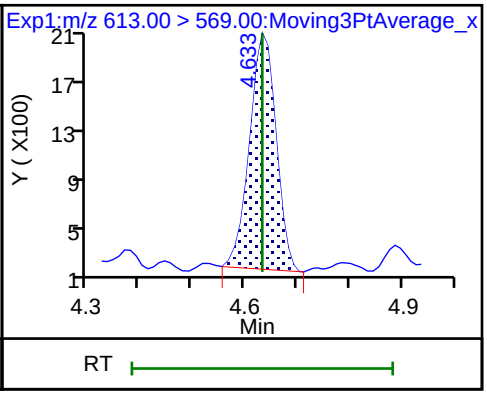
66 11-Chloroeicosafluoro-3-oxaundec



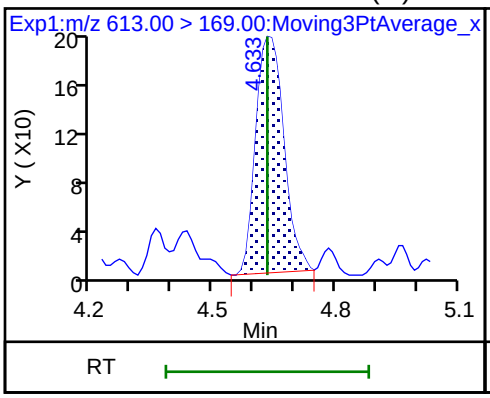
D 36 13C2 PFDoA



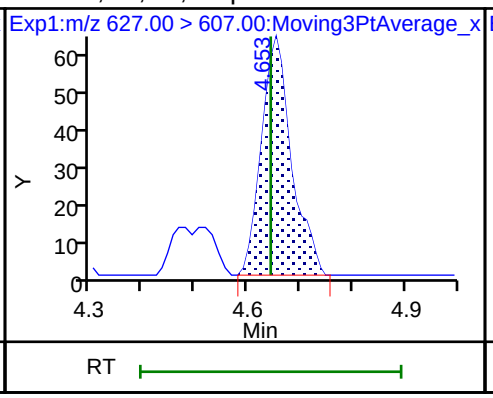
37 Perfluorododecanoic acid



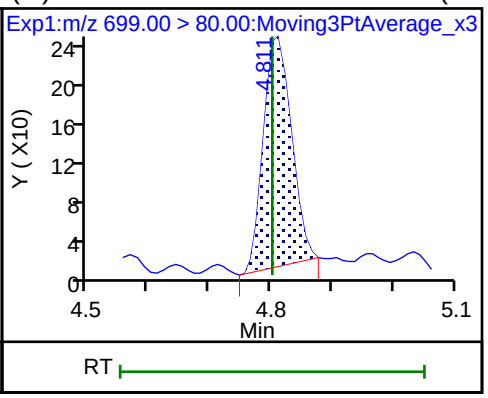
37 Perfluorododecanoic acid (M)



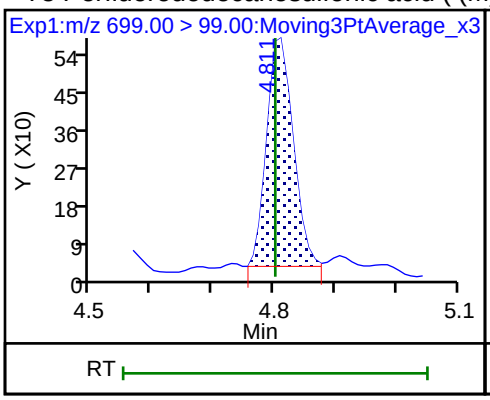
74 1H,1H,2H,2H-perfluorododecanesul (M)



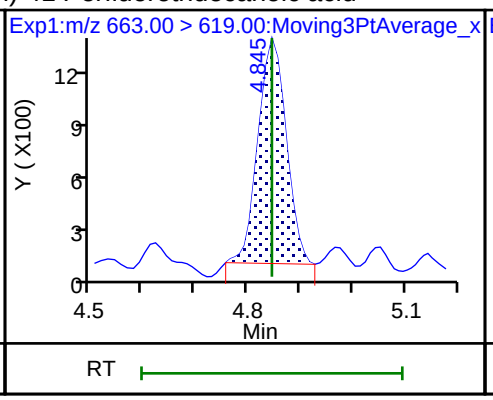
75 Perfluorododecanesulfonic acid (



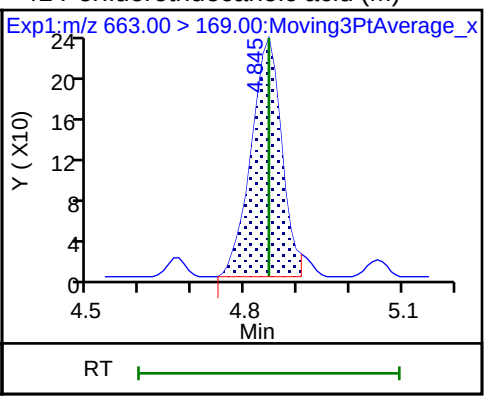
75 Perfluorododecanesulfonic acid ((M)



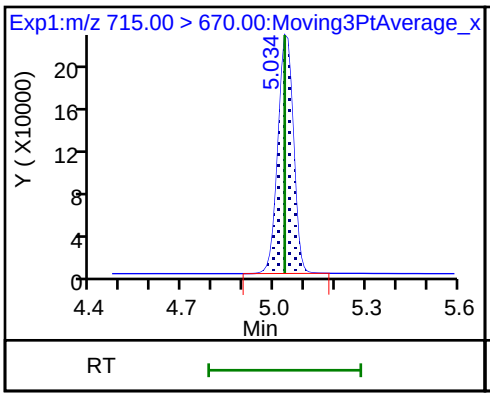
41 Perfluorotridecanoic acid



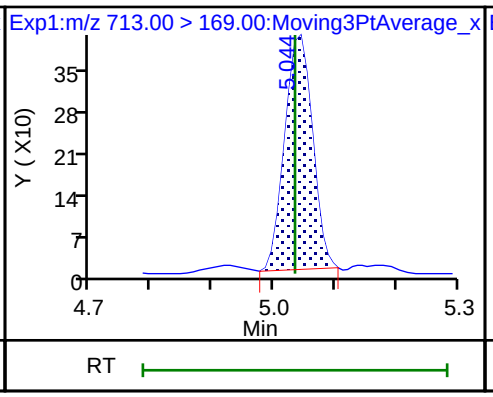
41 Perfluorotridecanoic acid (M)



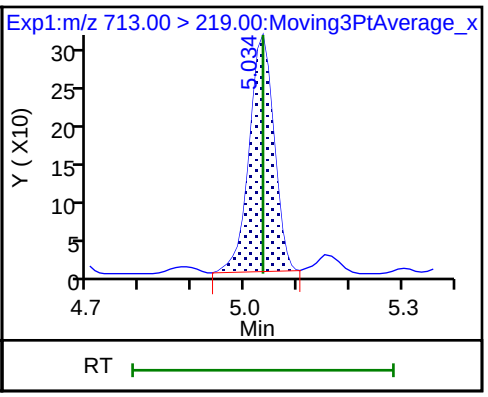
D 43 13C2 PFTeDA



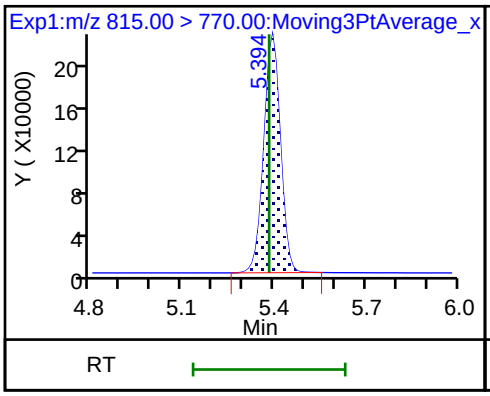
42 Perfluorotetradecanoic acid



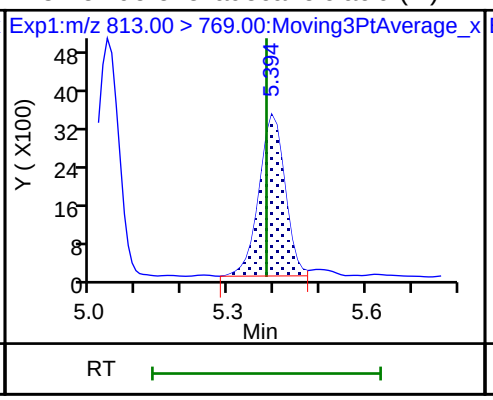
42 Perfluorotetradecanoic acid



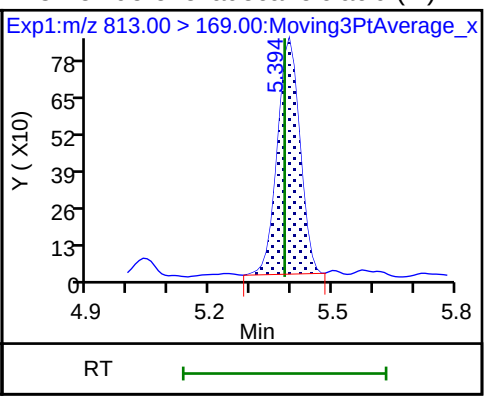
D 44 13C2 PFHxDA



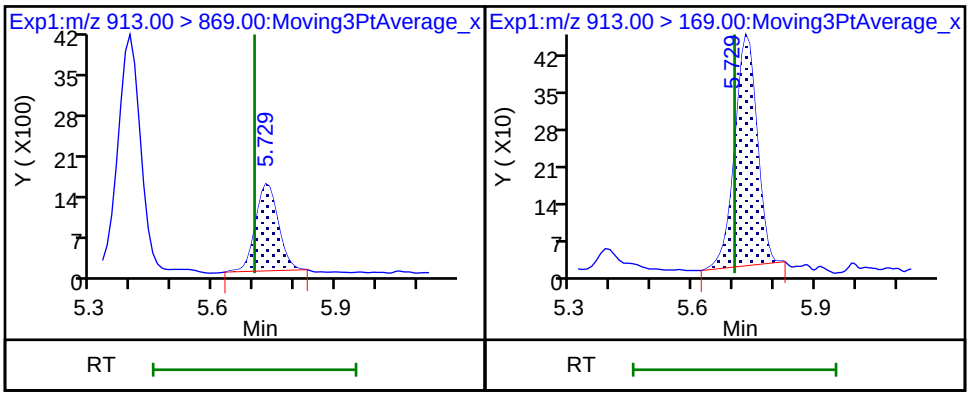
45 Perfluorohexadecanoic acid (M)



45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid

Eurofins TestAmerica, Burlington

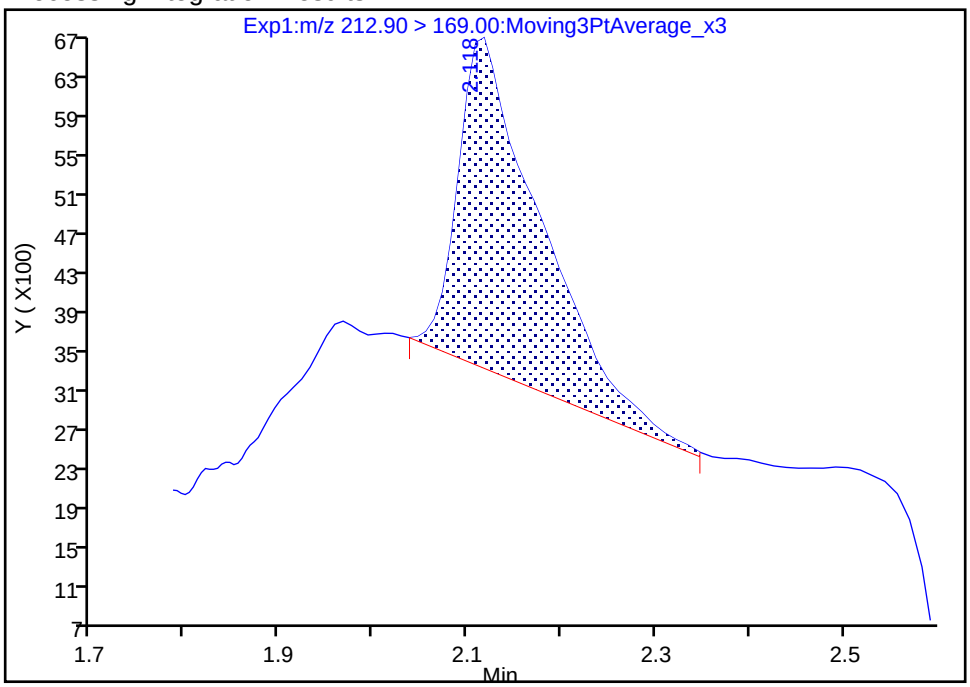
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

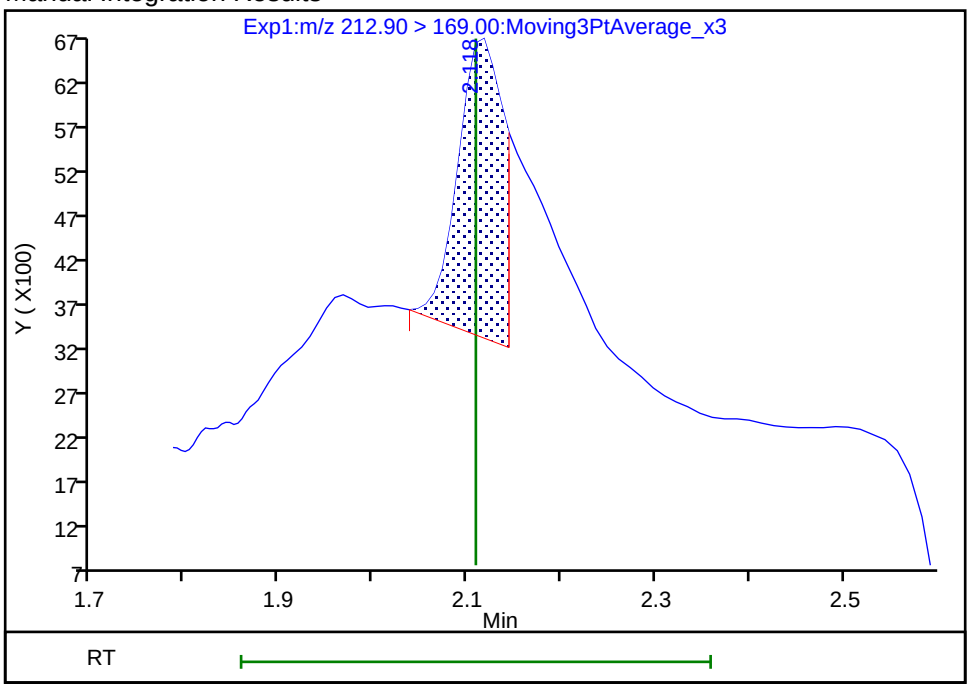
Processing Integration Results

RT: 2.12
Area: 20491
Amount: 0.015785
Amount Units: ng/ml



Manual Integration Results

RT: 2.12
Area: 10898
Amount: 0.008395
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:21:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

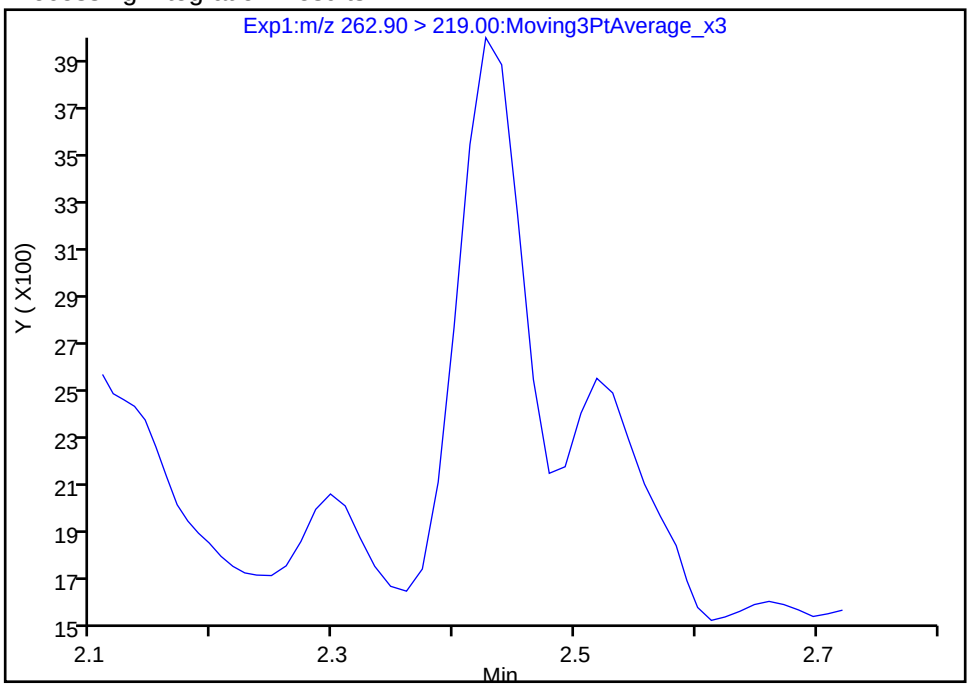
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

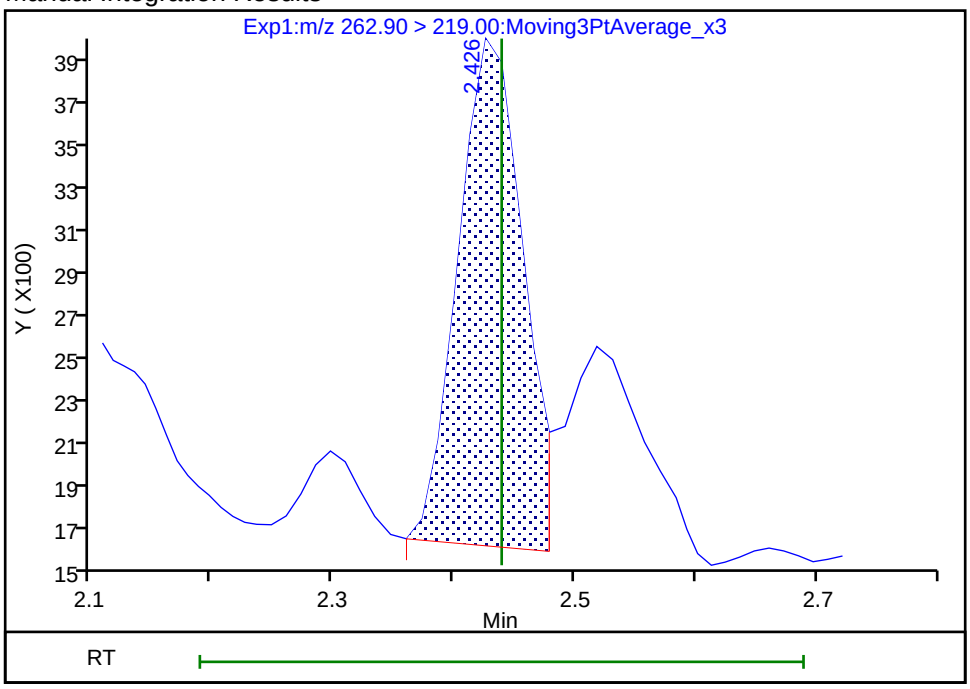
Not Detected
Expected RT: 2.44

Processing Integration Results



Manual Integration Results

RT: 2.43
Area: 8520
Amount: 0.007932
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:21:41
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

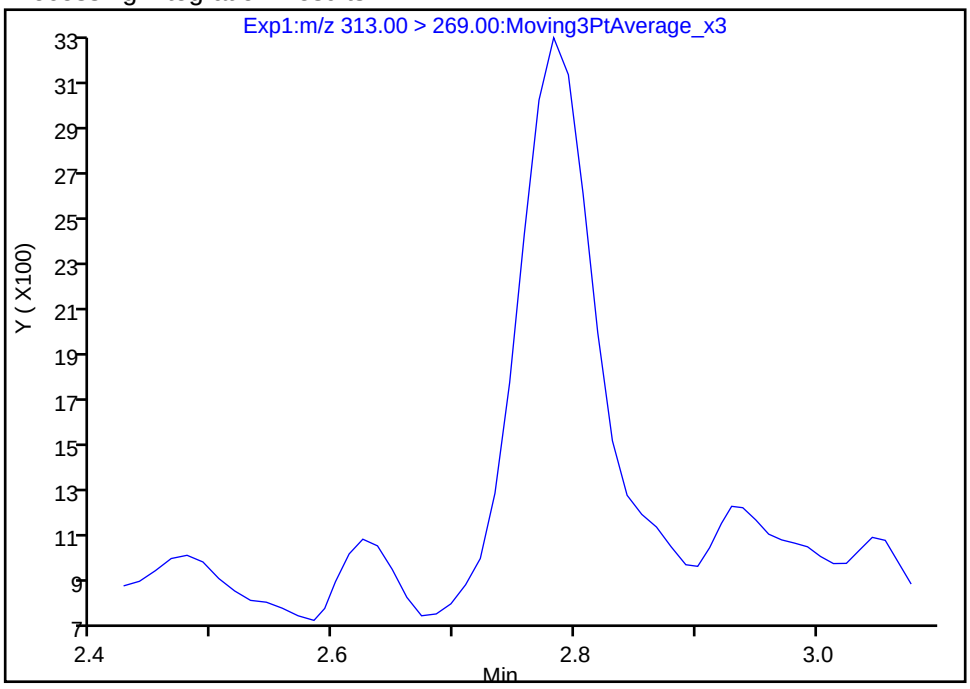
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

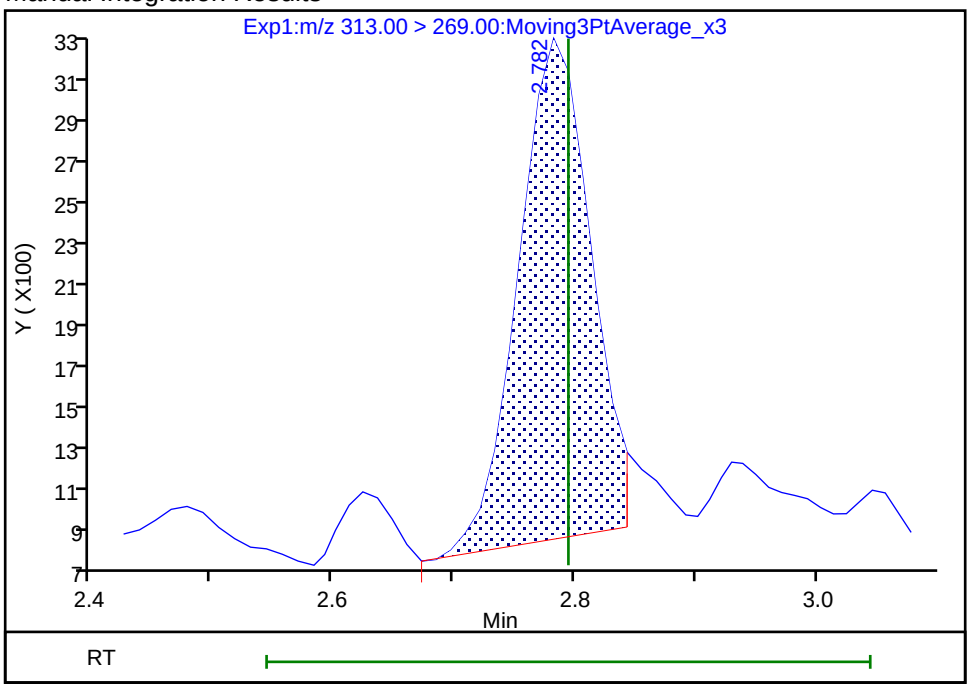
Not Detected
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.78
Area: 9998
Amount: 0.008648
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:22:44
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

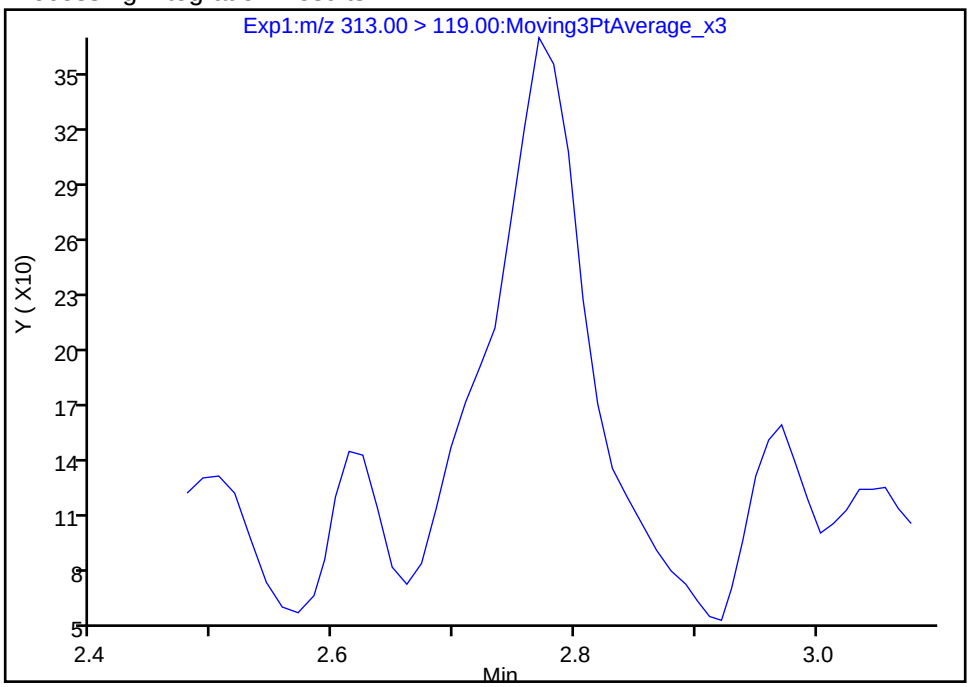
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

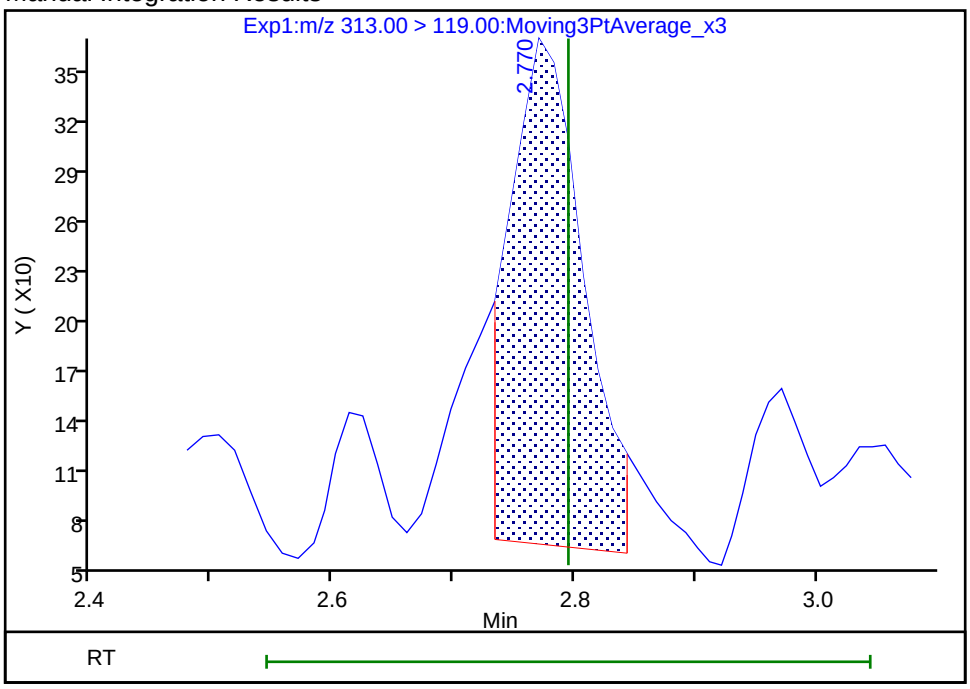
Not Detected
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.77
Area: 1229
Amount: 0.008648
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:22:51
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

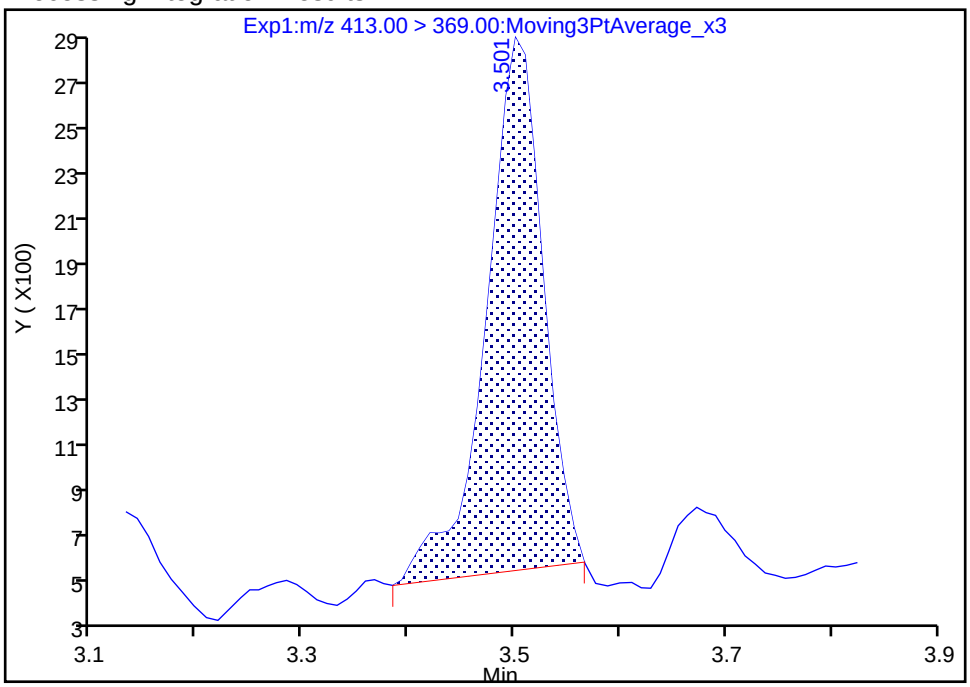
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

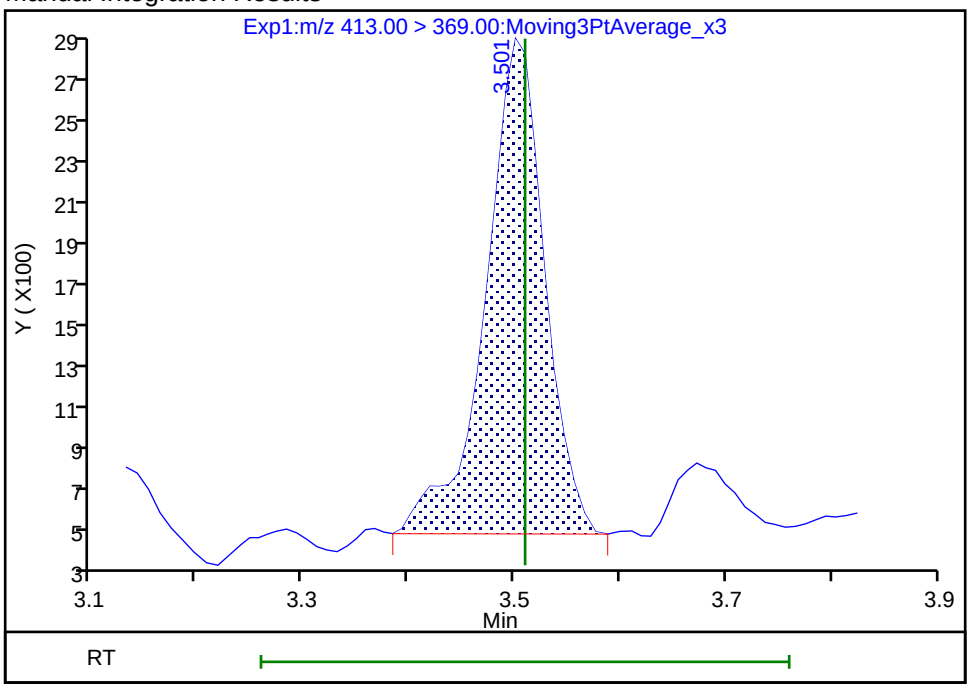
Processing Integration Results

RT: 3.50
Area: 8585
Amount: 0.007024
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 9185
Amount: 0.007515
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:24:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

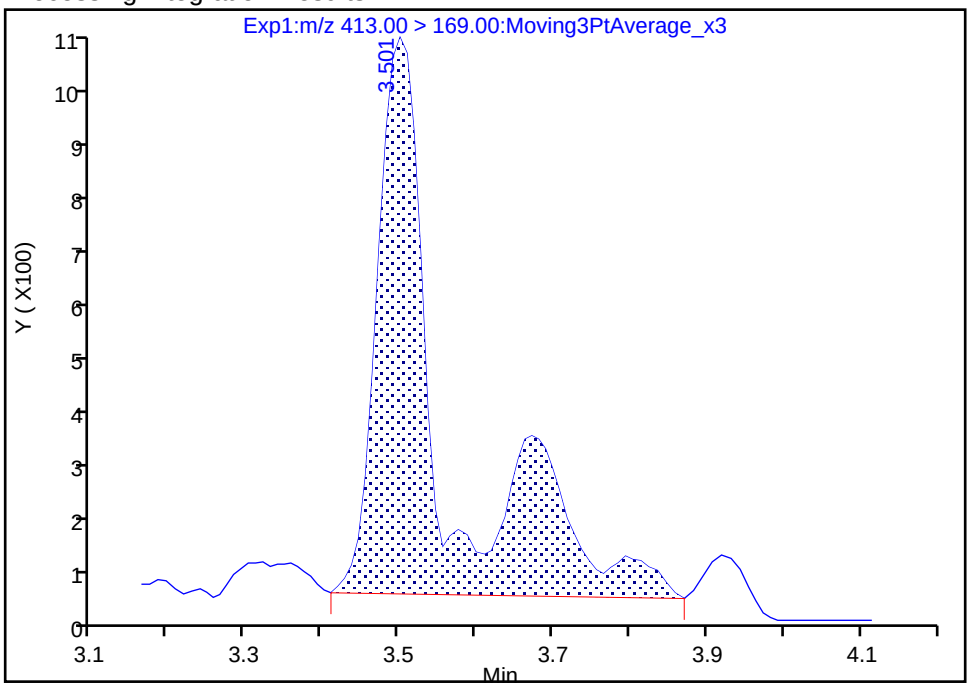
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

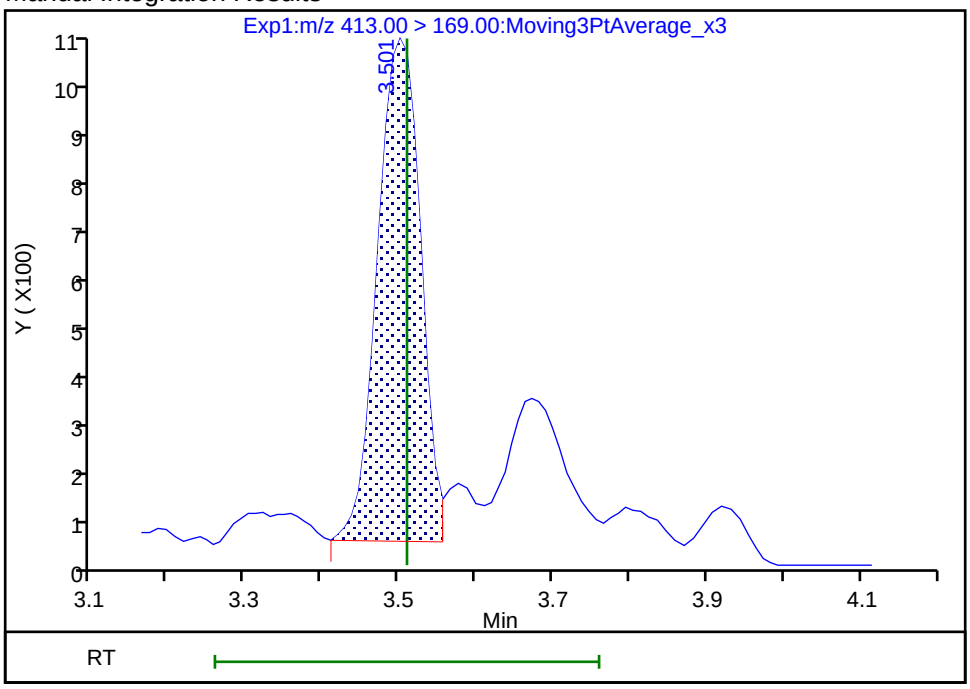
Processing Integration Results

RT: 3.50
Area: 5845
Amount: 0.007024
Amount Units: ng/ml



Manual Integration Results

RT: 3.50
Area: 3765
Amount: 0.007515
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:24:35

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

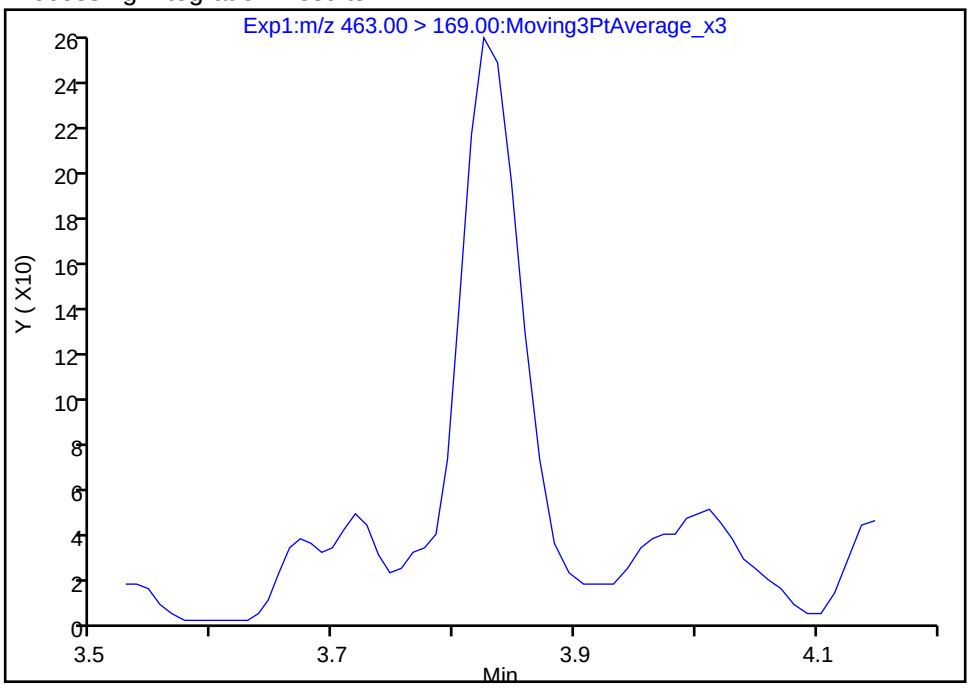
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

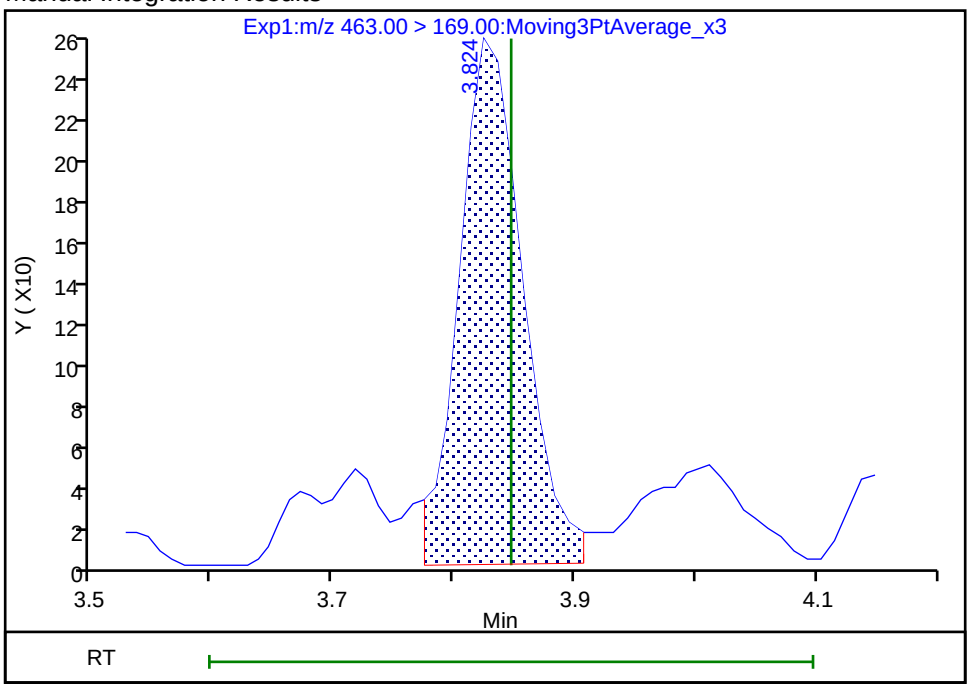
Not Detected
Expected RT: 3.85

Processing Integration Results



Manual Integration Results

RT: 3.82
Area: 936
Amount: 0.007260
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:25:30
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

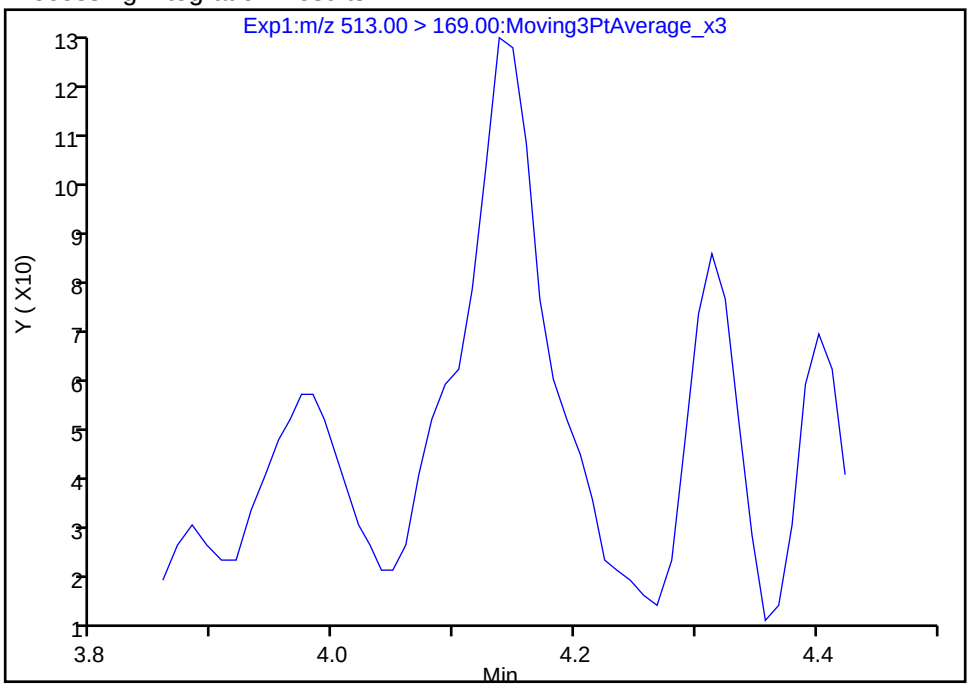
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d
Injection Date: 08-Jul-2021 16:08:42 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

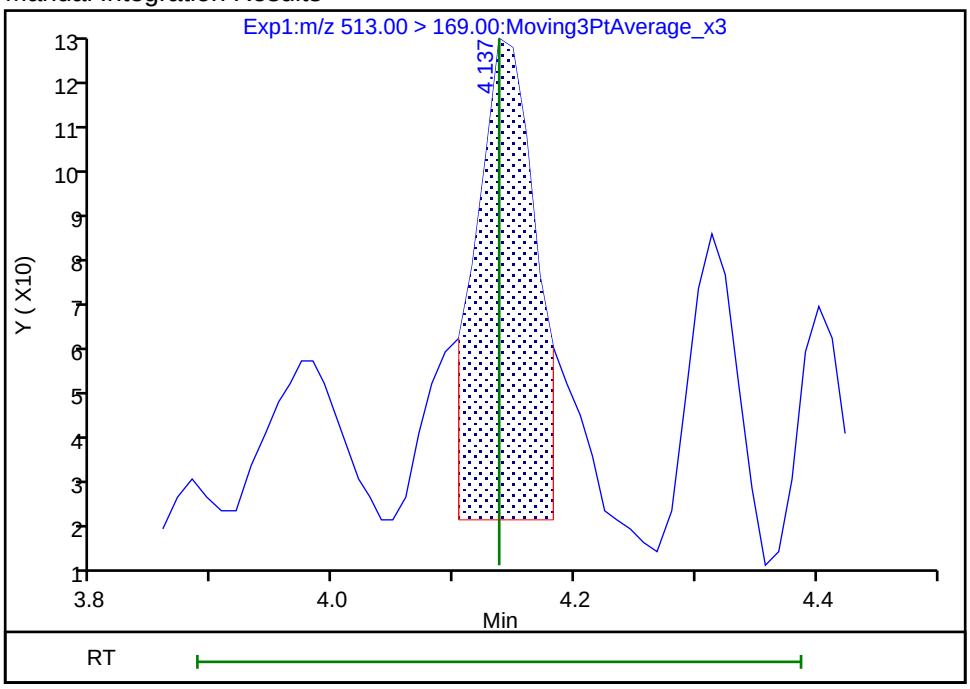
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 351
Amount: 0.006907
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:27:58
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

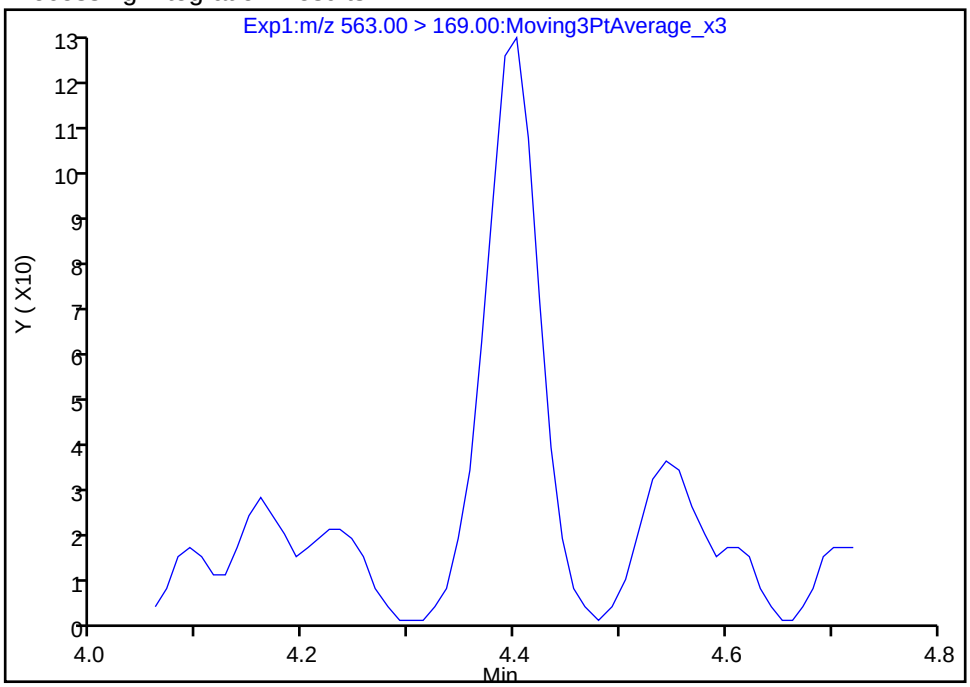
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d
Injection Date: 08-Jul-2021 16:08:42 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

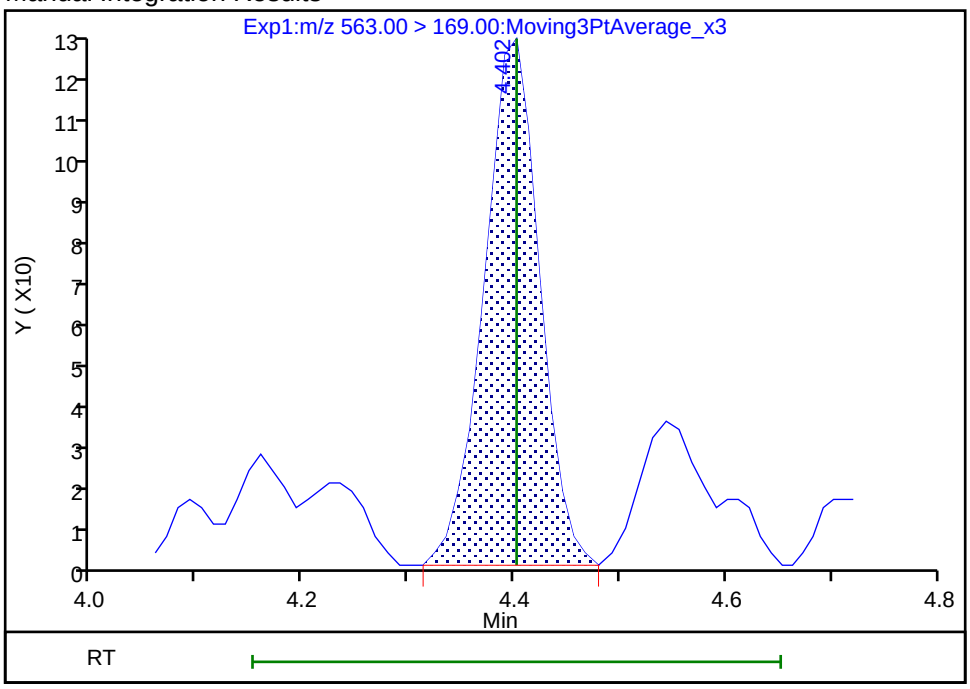
Not Detected
Expected RT: 4.40

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 467
Amount: 0.006395
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:27:28
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

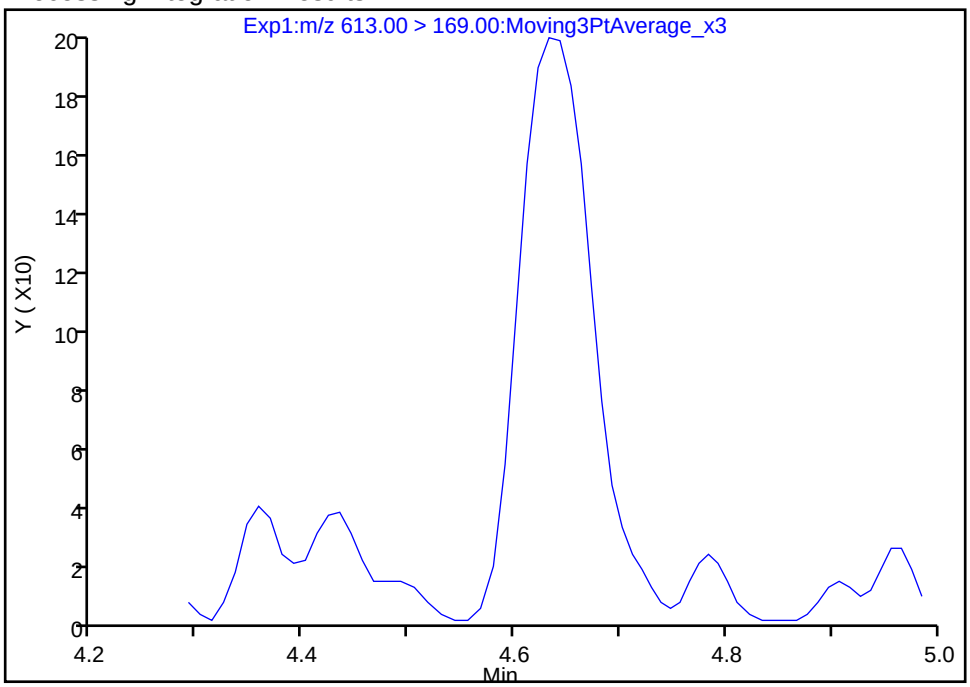
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

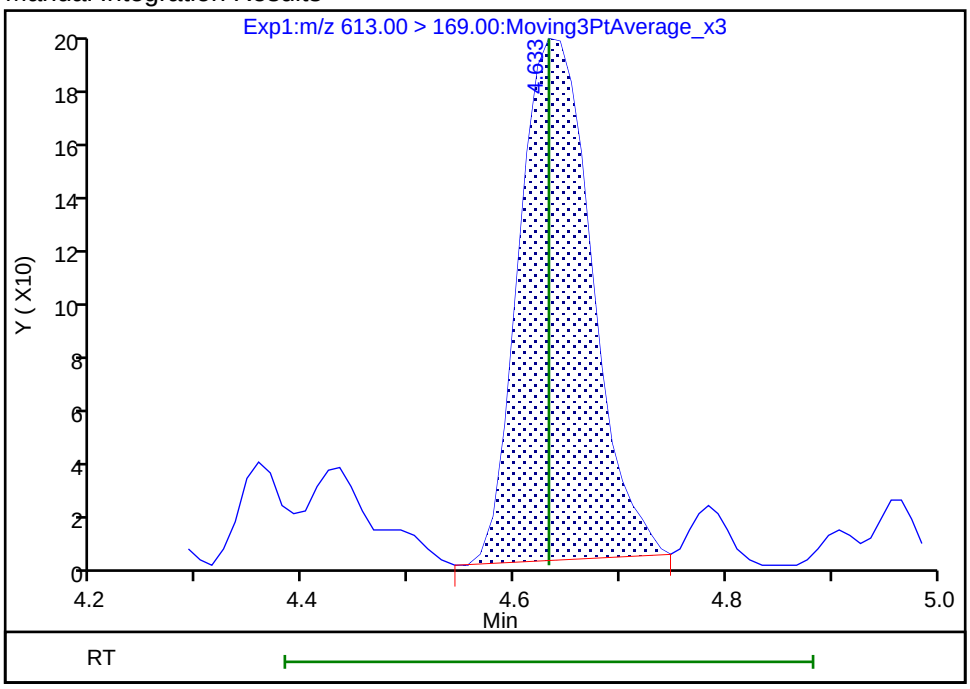
Not Detected
Expected RT: 4.63

Processing Integration Results



Manual Integration Results

RT: 4.63
Area: 918
Amount: 0.007806
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:27:17
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

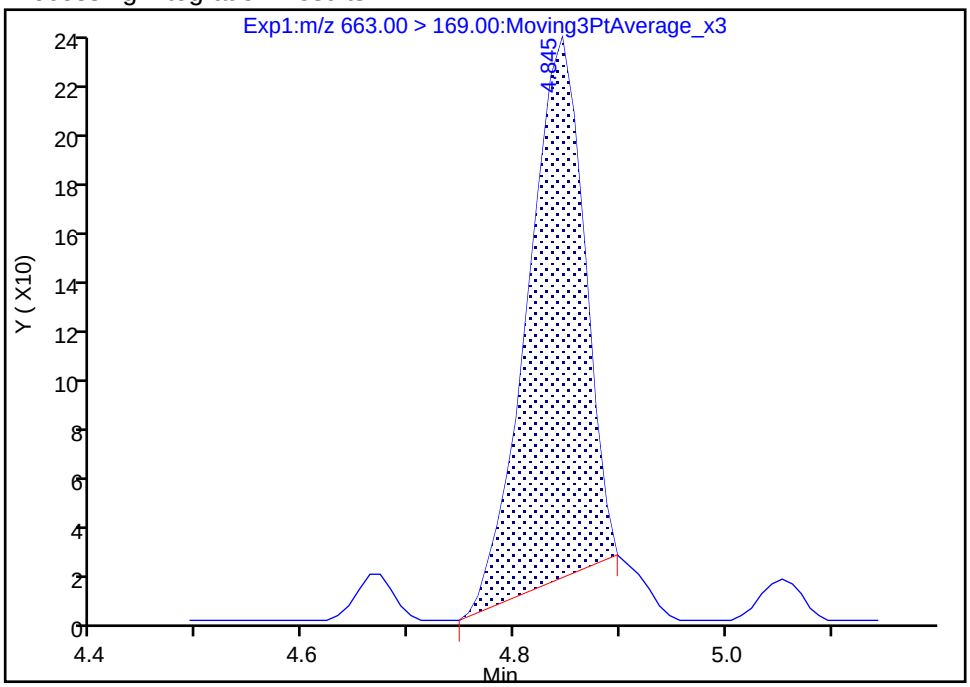
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

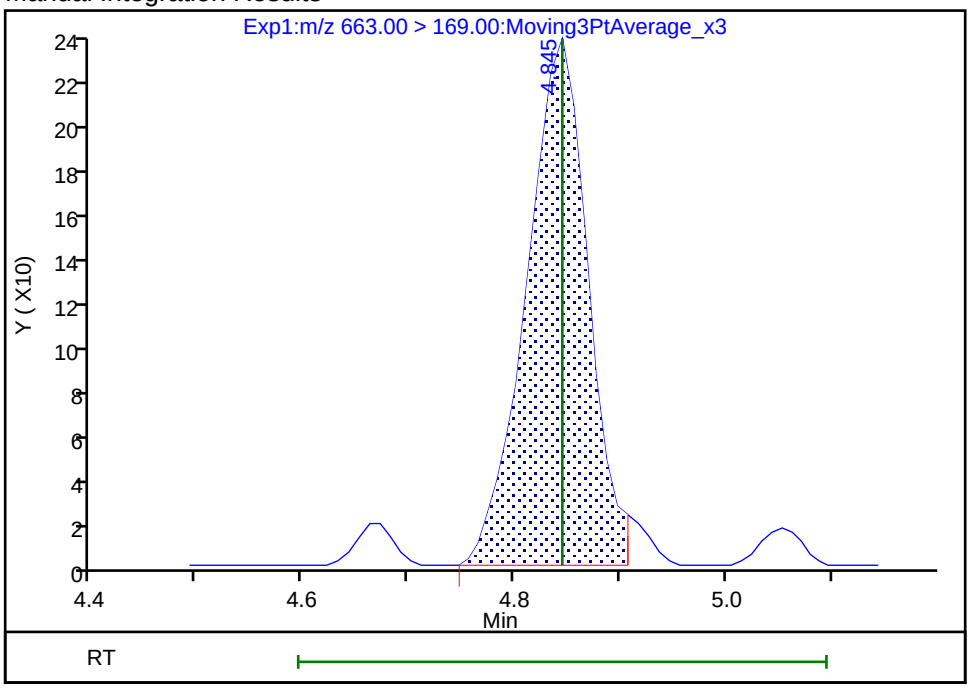
Processing Integration Results

RT: 4.85
Area: 830
Amount: 0.006285
Amount Units: ng/ml



Manual Integration Results

RT: 4.85
Area: 967
Amount: 0.006285
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:26:36

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

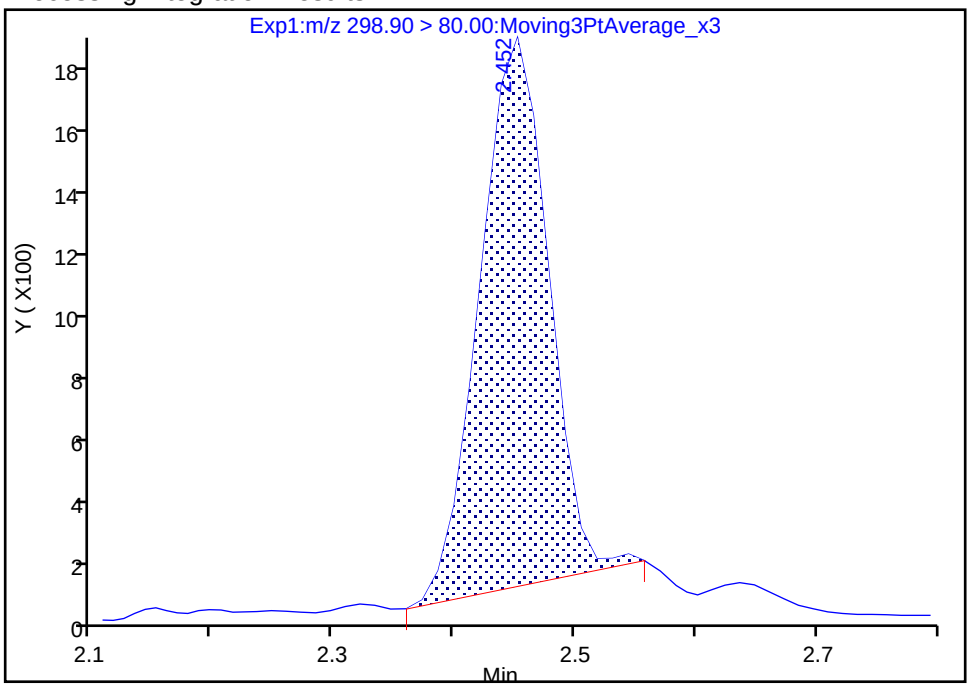
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

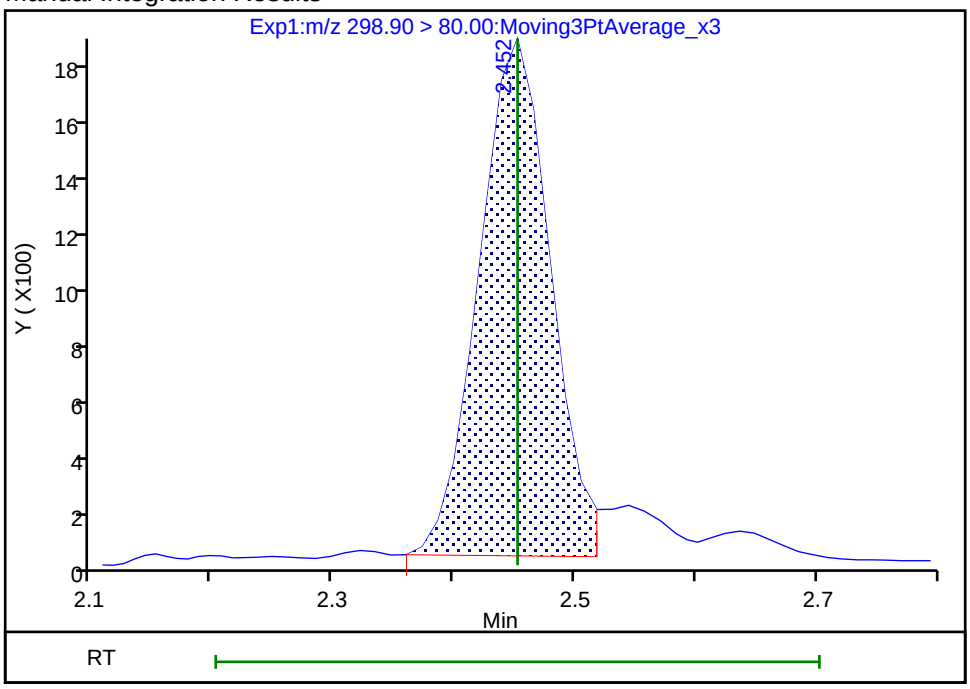
Processing Integration Results

RT: 2.45
Area: 6913
Amount: 0.005838
Amount Units: ng/ml



Manual Integration Results

RT: 2.45
Area: 7459
Amount: 0.006299
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:21:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

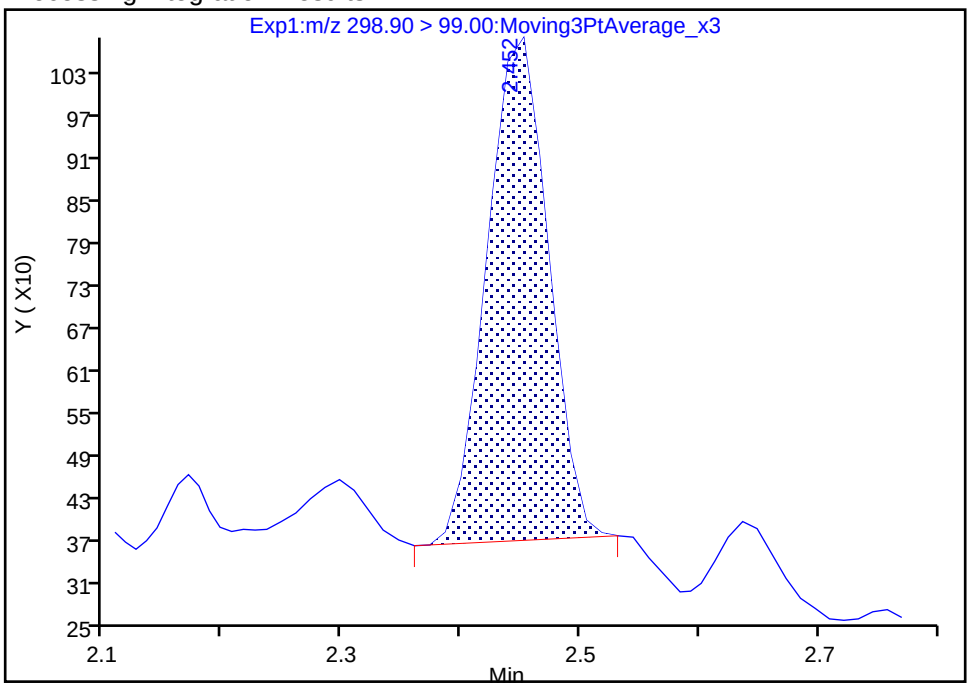
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

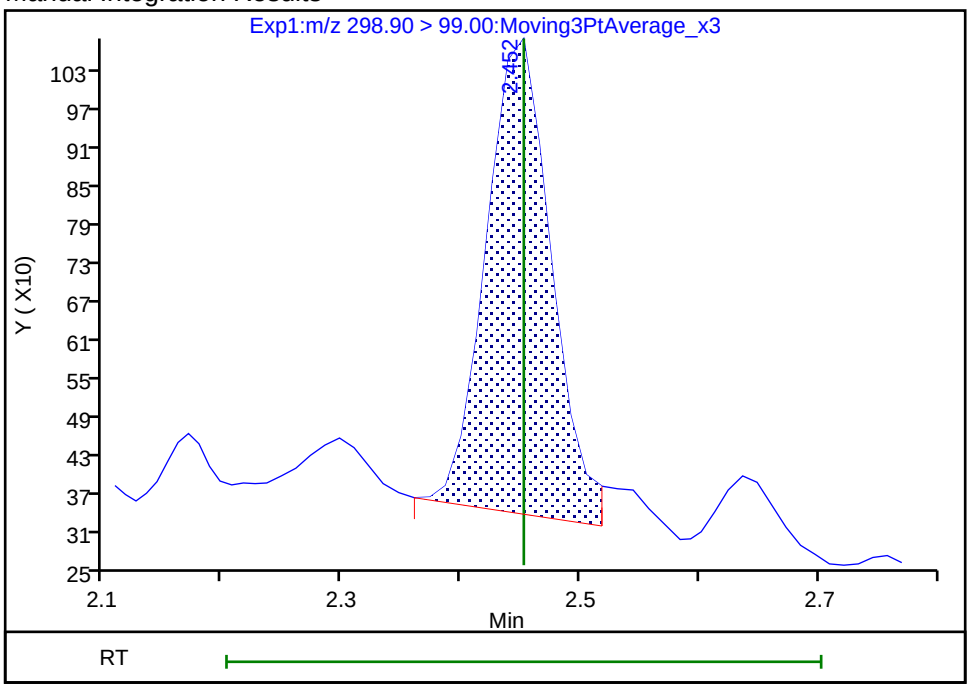
Processing Integration Results

RT: 2.45
Area: 2544
Amount: 0.005838
Amount Units: ng/ml



Manual Integration Results

RT: 2.45
Area: 2811
Amount: 0.006299
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:22:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

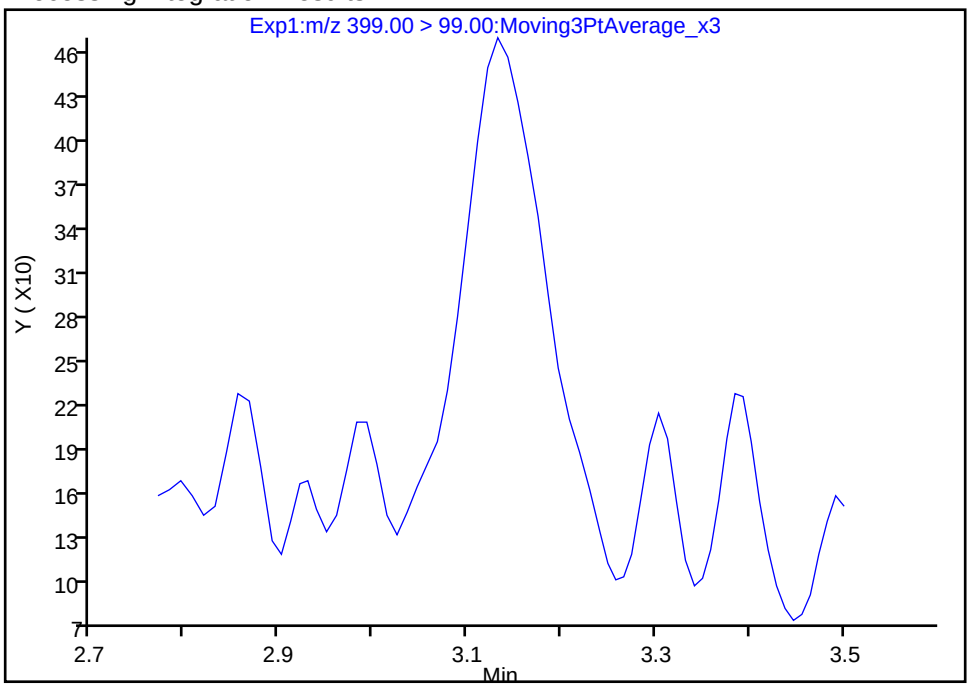
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

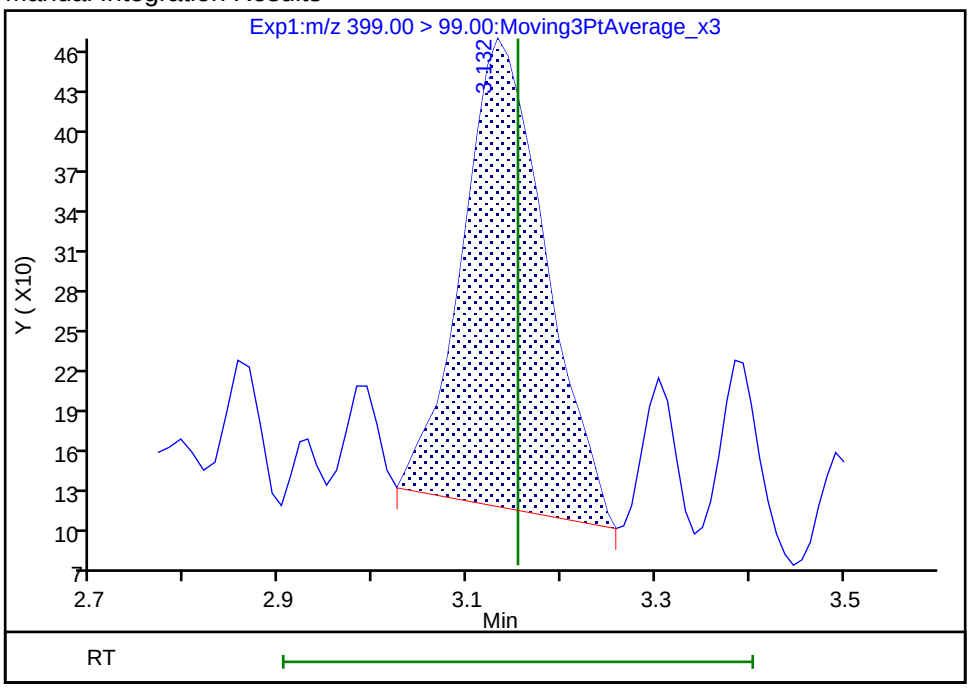
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 2136
Amount: 0.008907
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:23:24
Audit Action: Manually Integrated Audit Reason: Missed Peak

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d

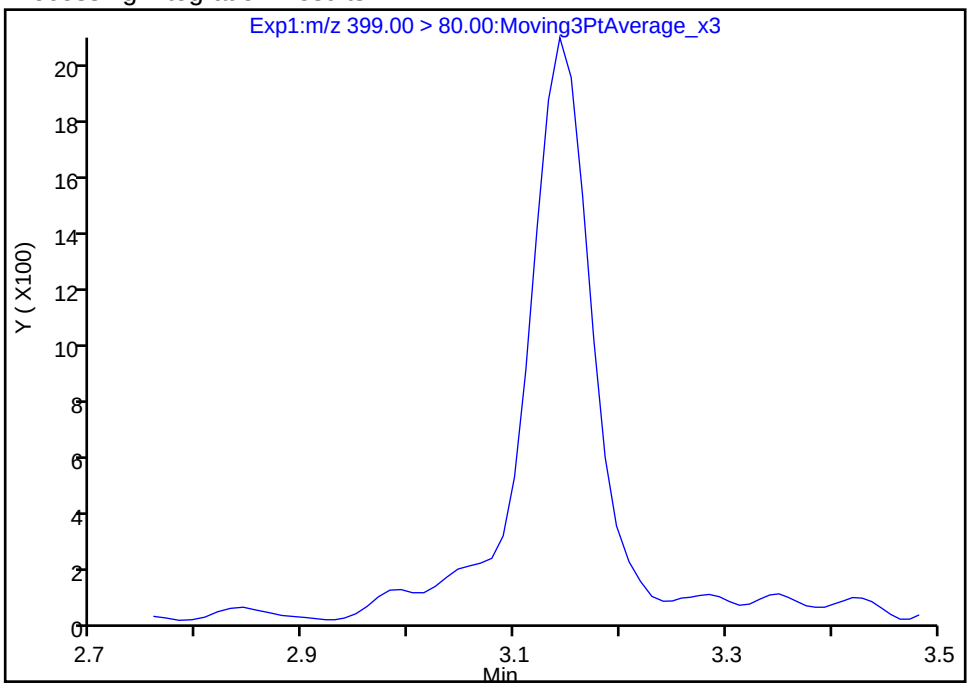
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

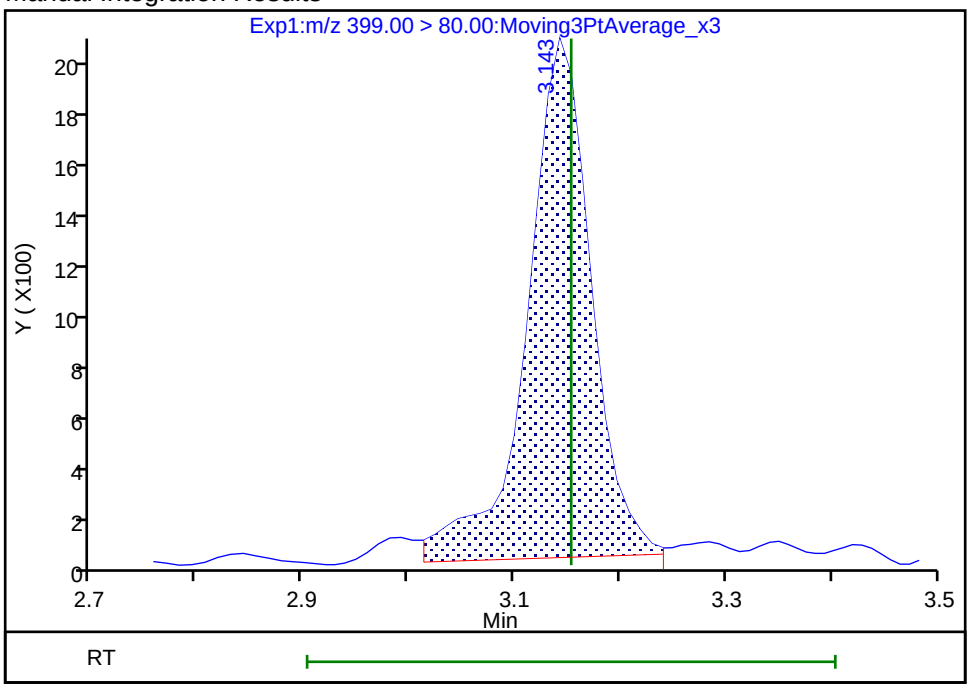
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.14
Area: 8533
Amount: 0.008907
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:23:30
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

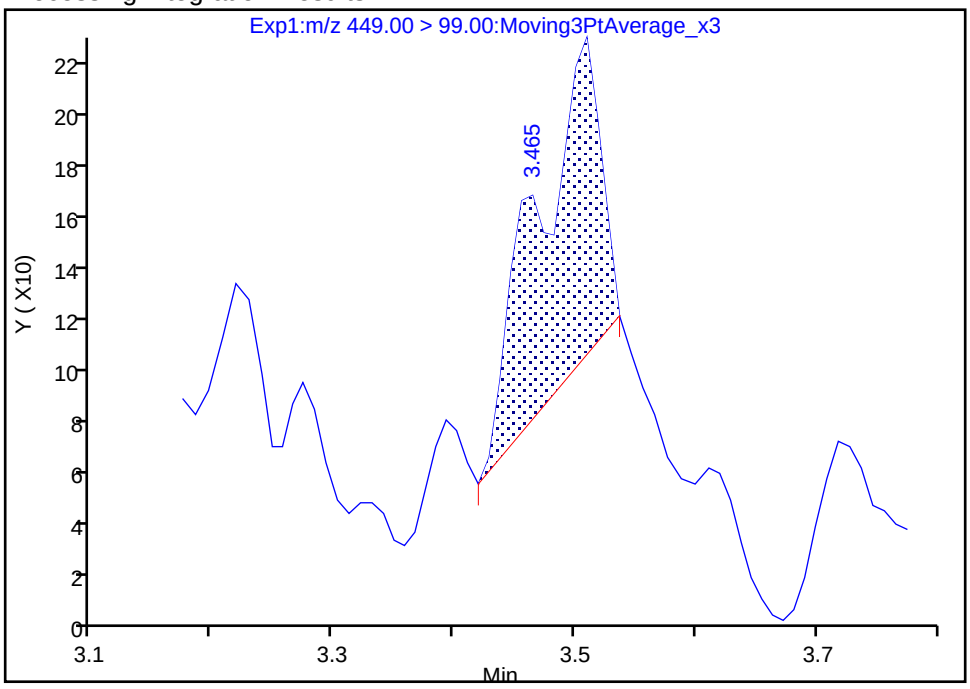
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

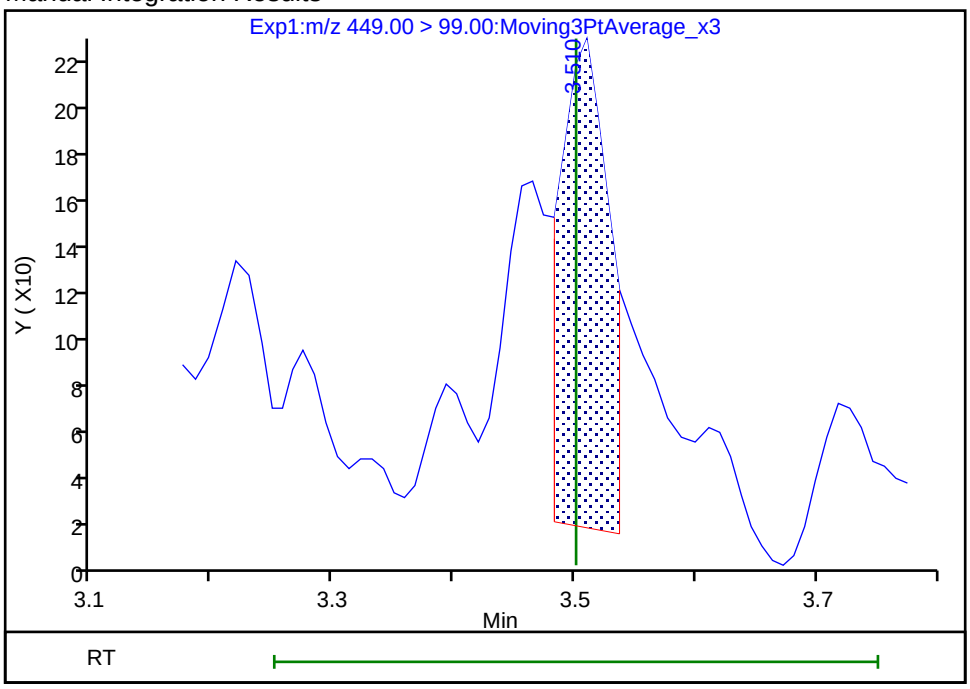
Processing Integration Results

RT: 3.46
Area: 449
Amount: 0.006279
Amount Units: ng/ml



Manual Integration Results

RT: 3.51
Area: 525
Amount: 0.006279
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:23:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

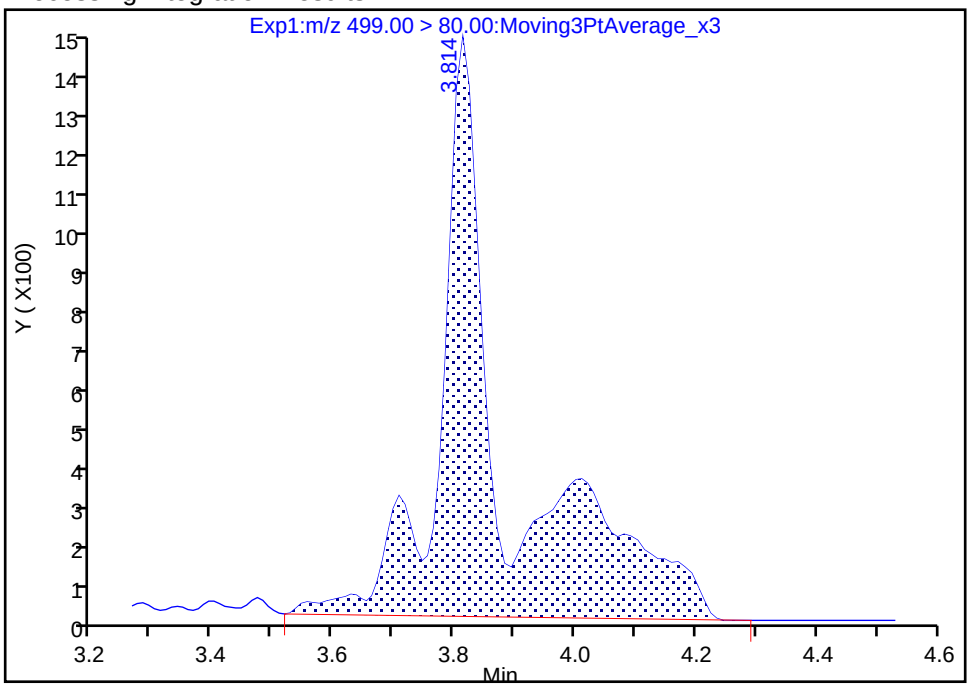
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d
Injection Date: 08-Jul-2021 16:08:42 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

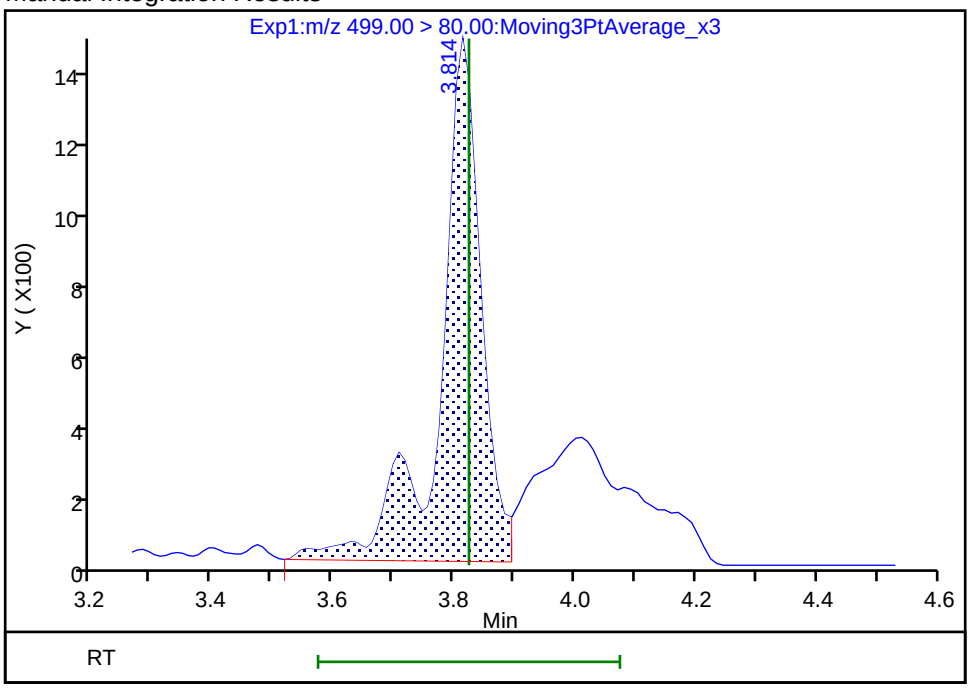
Processing Integration Results

RT: 3.81
Area: 11013
Amount: 0.016516
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 6883
Amount: 0.010322
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:25:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

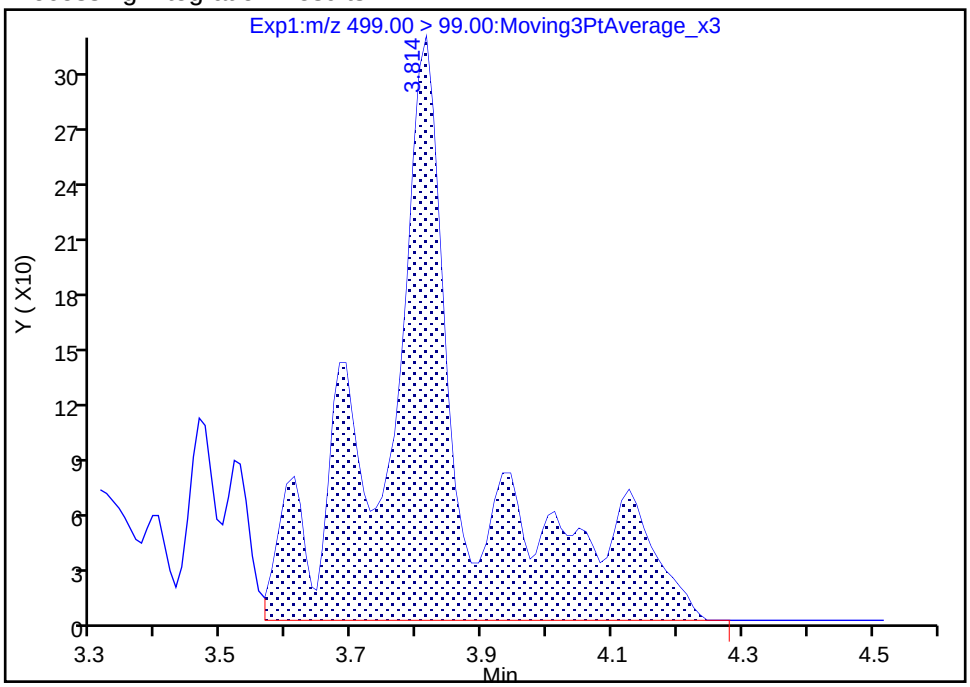
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Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

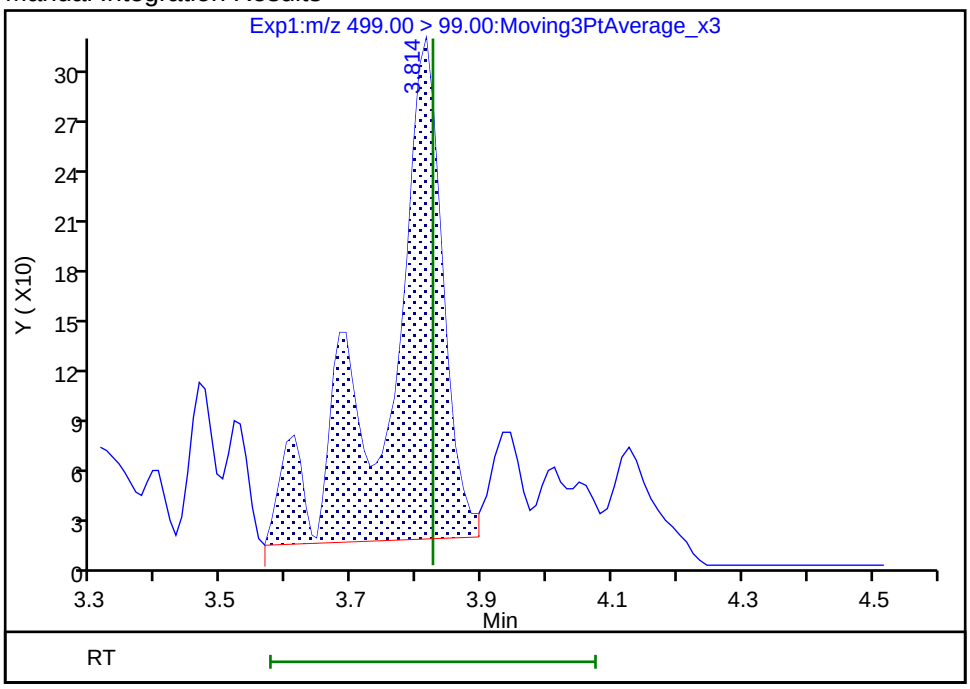
Processing Integration Results

RT: 3.81
Area: 3003
Amount: 0.016516
Amount Units: ng/ml



Manual Integration Results

RT: 3.81
Area: 1799
Amount: 0.010322
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:25:05

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

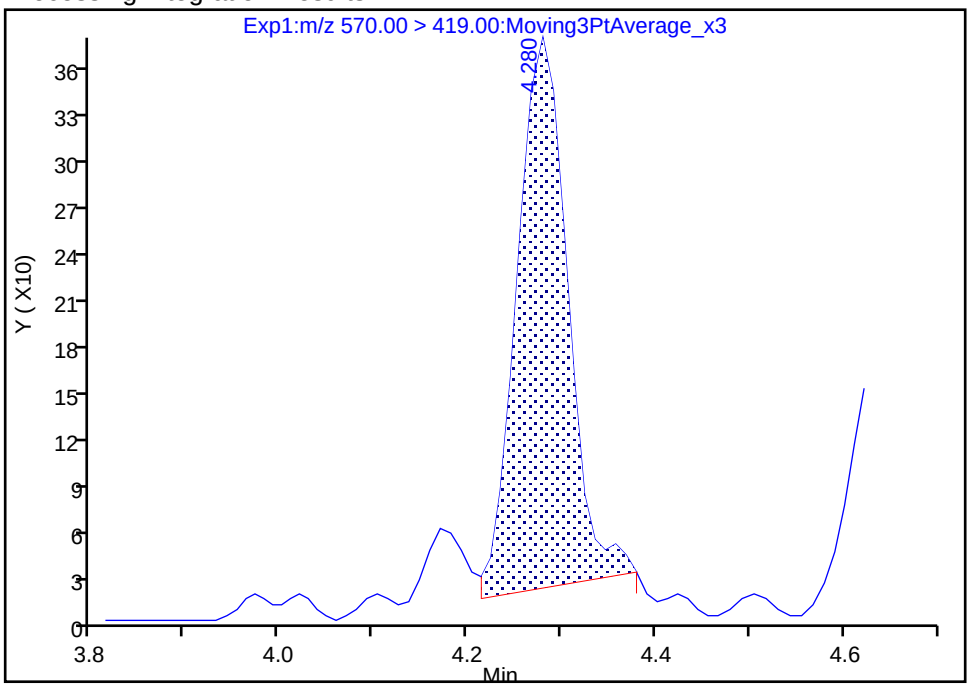
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

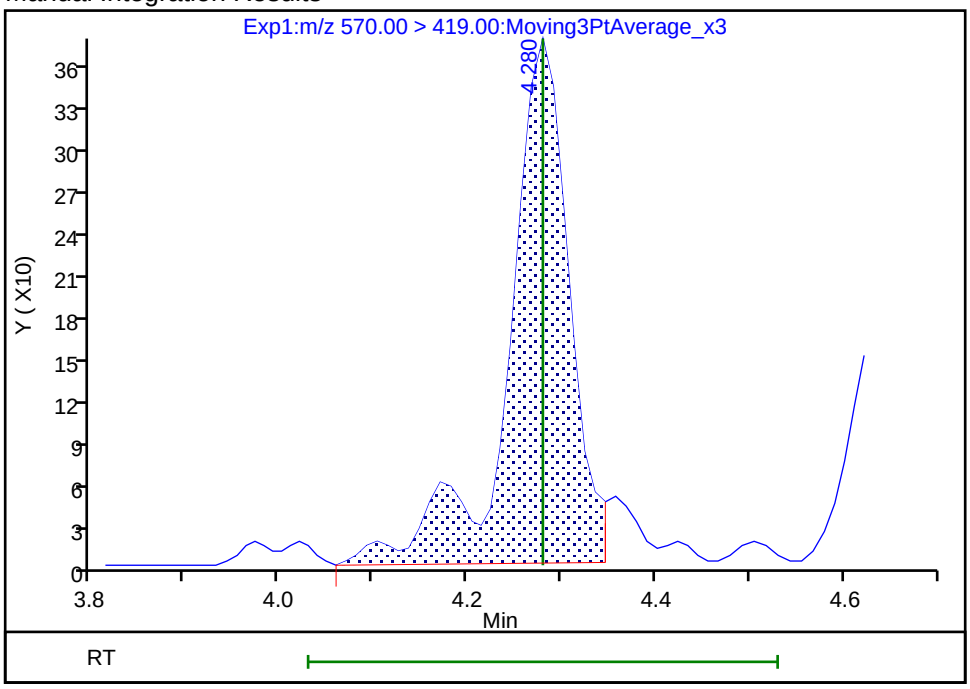
Processing Integration Results

RT: 4.28
Area: 1324
Amount: 0.021385
Amount Units: ng/ml



Manual Integration Results

RT: 4.28
Area: 1679
Amount: 0.026982
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:25:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

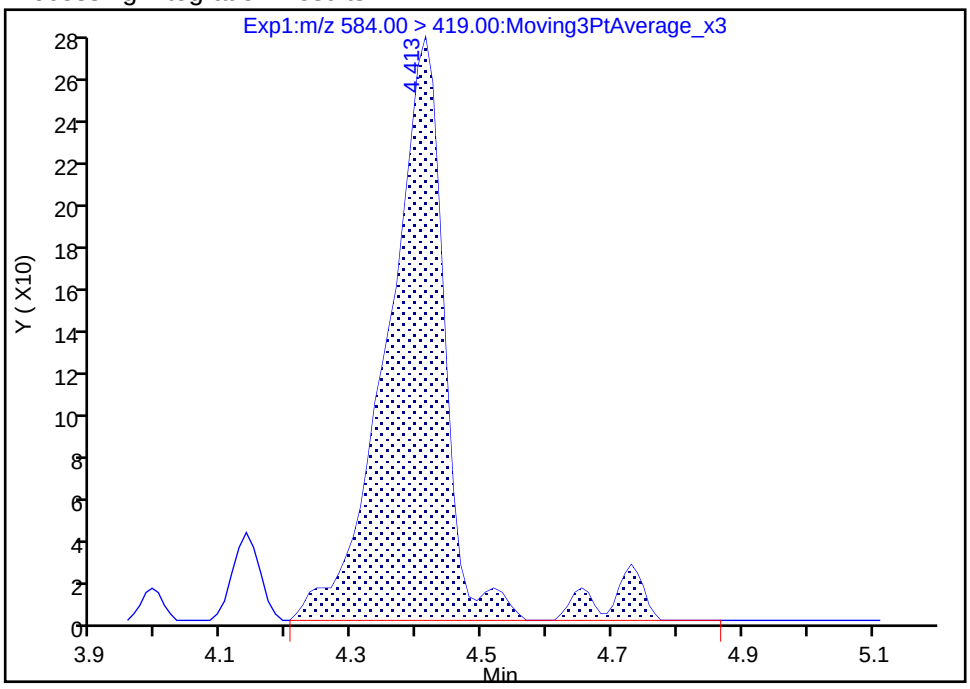
Data File:	\\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d				
Injection Date:	08-Jul-2021 16:08:42	Instrument ID:	LC812		
Lims ID:	ICB				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

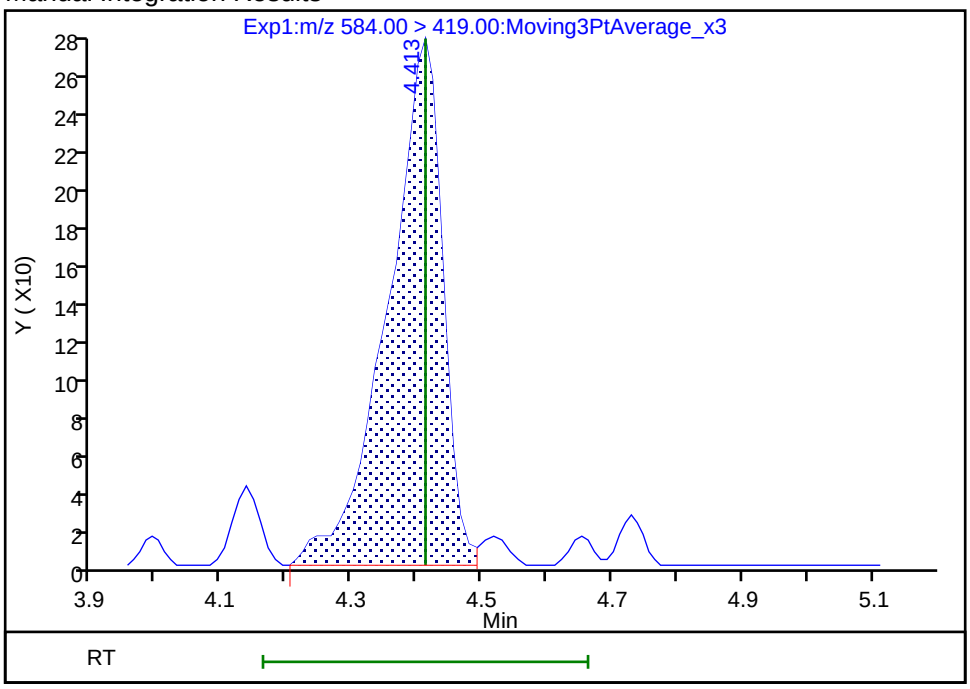
Processing Integration Results

RT: 4.41
Area: 1731
Amount: 0.029180
Amount Units: ng/ml



Manual Integration Results

RT: 4.41
Area: 1586
Amount: 0.024903
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:26:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

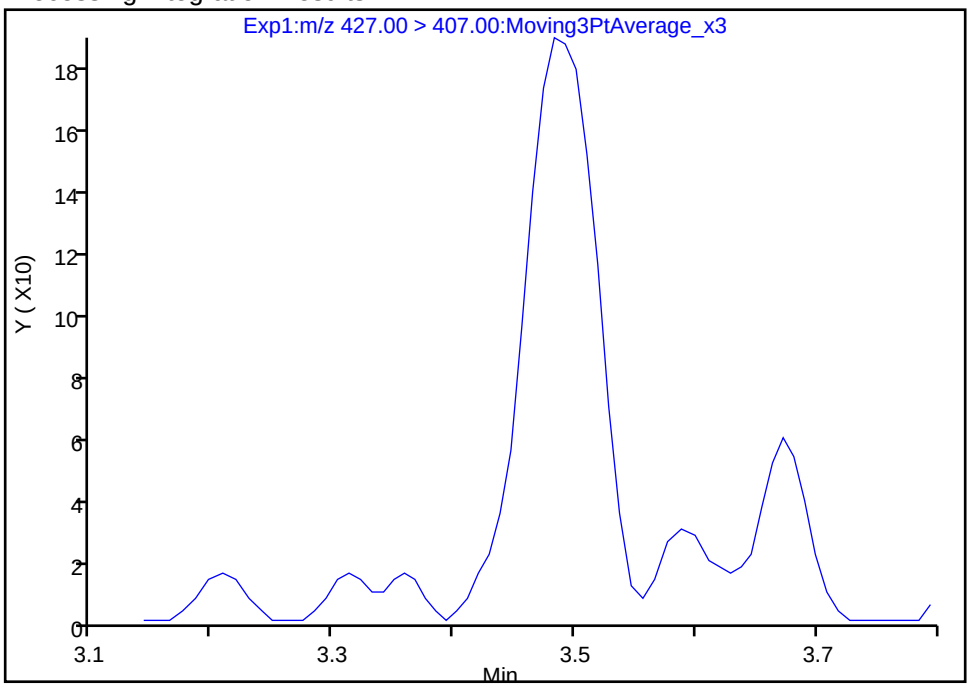
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d
Injection Date: 08-Jul-2021 16:08:42 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

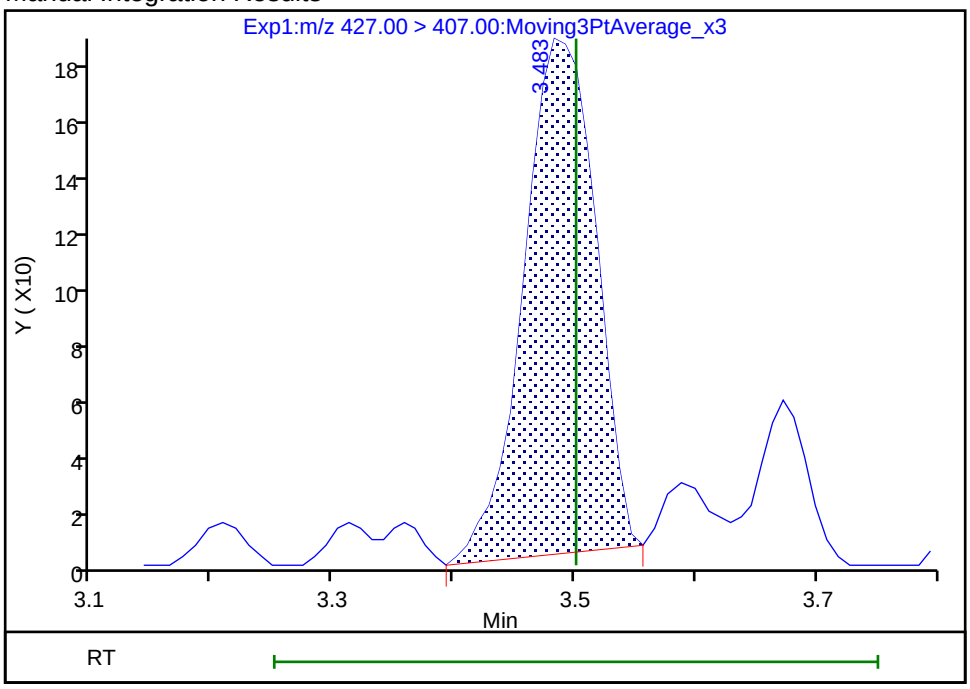
Not Detected
Expected RT: 3.50

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 750
Amount: 0.006179
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:24:12
Audit Action: Manually Integrated Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

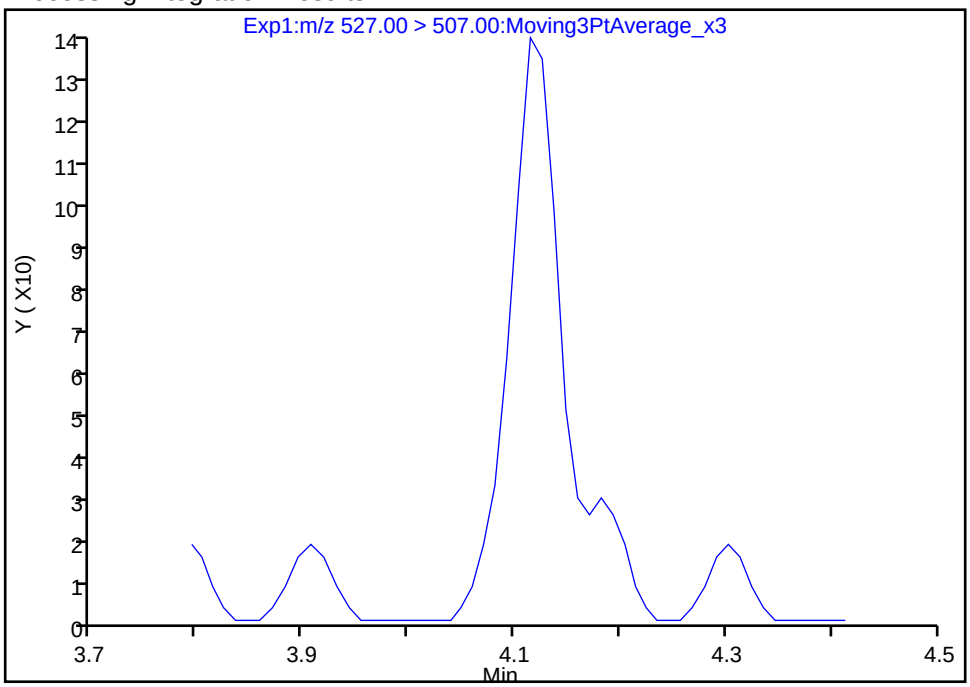
Data File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL08.d
Injection Date: 08-Jul-2021 16:08:42 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

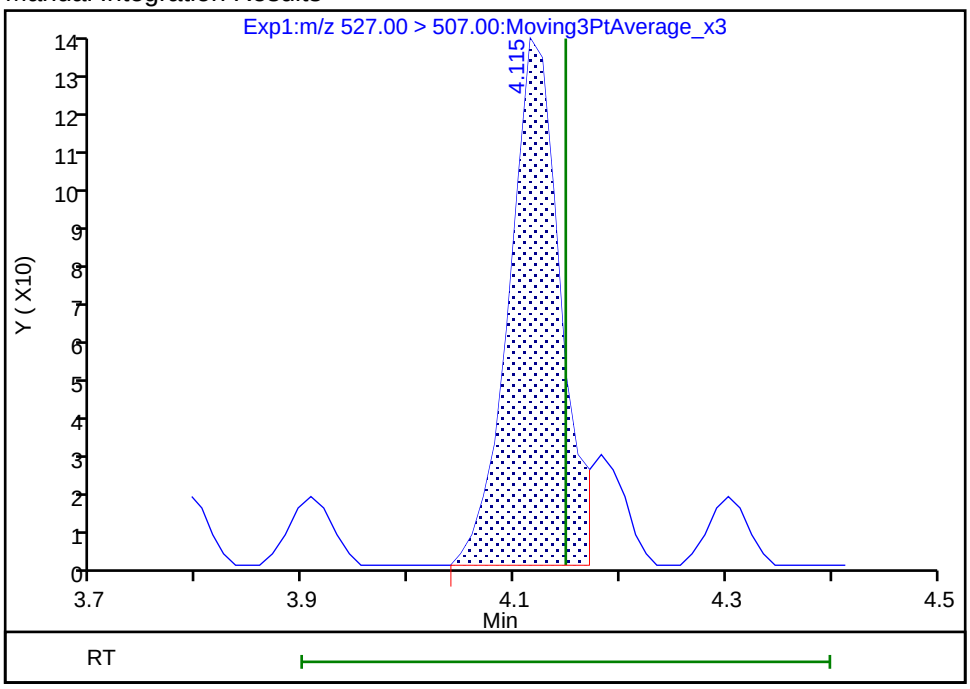
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.11
Area: 458
Amount: 0.006540
Amount Units: ng/ml



Reviewer: chirgwinb, 08-Jul-2021 16:27:39
Audit Action: Manually Integrated Audit Reason: Missed Peak

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-170043/2-A

Matrix: Water Lab File ID: PA210811A09.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 250(mL) Date Analyzed: 08/11/2021 13:51

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	42.5		5.0	0.89
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.9		2.0	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	39.3		2.0	0.45
375-85-9	Perfluoroheptanoic acid (PFHpA)	42.3		2.0	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	41.7		2.0	0.42
375-95-1	Perfluorononanoic acid (PFNA)	40.8		2.0	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	41.3		2.0	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	39.3		2.0	0.34
307-55-1	Perfluorododecanoic acid (PFDoA)	39.4		2.0	0.39
72629-94-8	Perfluorotridecanoic acid (PFTriA)	37.0		2.0	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	39.9		2.0	0.63
375-73-5	Perfluorobutanesulfonic acid (PFBS)	36.6		2.0	0.25
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	34.2		2.0	0.30
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	41.3		2.0	0.23
335-77-3	Perfluorodecanesulfonic acid (PFDS)	37.4		2.0	0.31
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35.5		2.0	0.29
754-91-6	Perfluorooctanesulfonamide (FOSA)	37.6		2.0	0.58
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	46.3		5.0	0.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.2		5.0	0.74
27619-97-2	6:2 FTS	34.4		5.0	1.1
39108-34-4	8:2 FTS	40.3		2.0	0.39

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 200-170043/2-A

Matrix: Water Lab File ID: PA210811A09.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 250(mL) Date Analyzed: 08/11/2021 13:51

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	88		25-150
STL00992	13C4 PFBA	96		25-150
STL01893	13C5 PFPeA	103		25-150
STL00993	13C2 PFHxA	101		50-150
STL01892	13C4 PFHpA	94		50-150
STL00990	13C4 PFOA	99		50-150
STL00995	13C5 PFNA	98		50-150
STL00996	13C2 PFDA	99		50-150
STL00997	13C2 PFUnA	103		50-150
STL00998	13C2 PFDoA	95		50-150
STL02116	13C2 PFTeDA	88		50-150
STL02337	13C3 PFBS	107		50-150
STL00994	18O2 PFHxS	105		50-150
STL00991	13C4 PFOS	100		50-150
STL02118	d3-NMeFOSAA	93		50-150
STL02117	d5-NEtFOSAA	98		50-150
STL02279	M2-6:2 FTS	116		25-150
STL02280	M2-8:2 FTS	100		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d
Lims ID: LCS 200-170043/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Aug-2021 13:51:50 ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: LCS 200-170043/2-A
Misc. Info.: 200-0047128-009 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:31:39 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 08:43:48
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	2.107	2.082	0.025	0.597	1536421	1.20		96.0	7976	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.107	2.082	0.025	1.000	1259538	1.06		106	177	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.437	2.413	0.024	0.691	1251782	1.29		103	2912	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.450	2.413	0.037	1.005	1007078	0.9717		97.2	88.0	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.463	2.426	0.037	0.698	1275129	1.24		107	251855	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.463	2.426	0.037	1.000	1084979	0.9158	Target=2.20	104	2206	
298.90 > 99.00	2.463	2.426	0.037	1.000	469928		2.31(1.10-3.30)		352	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.768	2.734	0.034	1.000	149756	0.9255		99.1	2263	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.768	2.734	0.034	0.785	97971	1.15		98.9	144	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.805	2.782	0.023	0.795	1346406	1.26		101	4216	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.805	2.782	0.023	1.000	1063791	0.9817	Target=12.93	98.2	301	M
313.00 > 119.00	2.805	2.782	0.023	1.000	85020		12.51(6.46-19.39)		250	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.817	2.782	0.035	0.890	1000566	0.9528	Target=3.71	102	2166	
349.00 > 99.00	2.805	2.782	0.023	0.886	279969		3.57(1.85-5.56)		559	
D 64 13C3 HFPO-DA										M
332.10 > 287.00	2.912	2.892	0.020	0.825	142223	1.23		98.7	1661	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.912	2.892	0.020	1.000	184683	0.9815		98.2	65.5	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.164	3.154	0.010	0.897	1010248	1.24		105	2509	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.164	3.154	0.010	1.000	846007	0.8558	Target=4.48	94.0	2264	M
399.00 > 99.00	3.164	3.154	0.010	1.000	191331		4.42(2.24-6.72)		305	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.175	3.154	0.021	1.000	1104884	1.06	Target=3.68	106	439	
363.00 > 169.00	3.175	3.154	0.021	1.000	300276		3.68(1.84-5.53)		818	
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1262966	1.18		94.4	2396	
77 DONA										M
377.00 > 251.00	3.208	3.196	0.012	0.836	2078518	0.9896	Target=2.47	105	3118	M
377.00 > 85.00	3.208	3.196	0.012	0.836	801018		2.59(1.24-3.71)		1418	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.510	3.510	0.0	0.915	765938	1.03	Target=6.56	108	2623	
449.00 > 99.00	3.519	3.510	0.009	0.917	116959		6.55(3.28-9.84)		555	M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.519	3.510	0.009	0.997	155468	1.37		116	658	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.519	3.510	0.009	1.000	116571	0.8591		90.6	1079	
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1367772	1.24		99.0	2949	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1398987	1.25			1972	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	1199537	1.04	Target=2.67	104	468	
413.00 > 169.00	3.528	3.519	0.009	1.000	455371		2.63(1.33-4.00)		1266	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.087	712598	1.20		100	2900	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	593895	0.8887	Target=6.69	95.8	540	M
499.00 > 99.00	3.836	3.836	0.0	1.000	99823		5.95(3.34-10.03)		422	M
D 19 13C5 PFNA										M
468.00 > 423.00	3.859	3.858	0.001	1.094	1288326	1.23		98.2	3485	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.859	3.858	0.001	1.000	1016133	1.02	Target=7.21	102	442	
463.00 > 169.00	3.859	3.858	0.001	1.000	145367		6.99(3.60-10.81)		1202	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.992	3.992	0.0	1.041	654657	0.8958		96.1	3185	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.115	0.011	1.076	444511	0.8983	Target=3.20	93.6	3369	
549.00 > 99.00	4.126	4.115	0.011	1.076	154422		2.88(1.60-4.80)		609	
D 23 13C2 PFDA										
515.00 > 470.00	4.149	4.148	0.001	1.176	1182363	1.24		99.3	3797	

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	4.149	4.148	0.001	1.000	1039083	1.03	Target=8.42	103	1071	
513.00 > 169.00	4.149	4.148	0.001	1.000	115581		8.99(4.21-12.63)		1015	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.160	4.160	0.0	1.000	67760	1.01		105	1145	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.179	161568	1.20		100	680	
D 21 13C8 FOSA										
506.00 > 78.00	4.235	4.224	0.011	1.200	1161158	1.11		88.5	2744	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.235	4.224	0.011	1.000	853498	0.9394		93.9	1777	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.291	4.280	0.011	1.216	81370	1.16		93.0	272	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.302	4.291	0.011	1.003	62572	1.16		116	202	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.380	4.369	0.011	1.142	353481	0.9359	Target=2.66	97.1	1828	M
599.00 > 99.00	4.380	4.369	0.011	1.142	110893		3.19(1.33-3.99)		841	
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.251	971667	1.29		103	3423	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.413	4.402	0.011	1.000	738927	0.9826	Target=7.70	98.3	922	
563.00 > 169.00	4.413	4.402	0.011	1.000	96623		7.65(3.85-11.56)		1083	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.424	4.413	0.011	1.254	89182	1.22		97.9	965	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.424	4.413	0.011	1.000	60819	1.01		101	355	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.505	4.492	0.013	1.174	498086	0.8254		87.6	2162	
D 36 13C2 PFDoA										
615.00 > 570.00	4.643	4.632	0.011	1.316	922337	1.18		94.5	2953	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.643	4.632	0.011	1.000	734192	0.9857	Target=6.31	98.6	264	
613.00 > 169.00	4.643	4.632	0.011	1.000	116125		6.32(3.15-9.46)		1591	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.663	4.653	0.010	1.121	30210	0.8878		92.1	690	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.811	4.810	0.0	1.254	99659	0.7756	Target=0.45	80.1	909	
699.00 > 99.00	4.811	4.810	0.0	1.254	222174		0.45(0.23-0.68)		1795	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.856	4.845	0.011	1.046	594641	0.9261	Target=4.61	92.6	244	M
663.00 > 169.00	4.856	4.845	0.011	1.046	131653		4.52(2.31-6.92)		1031	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.044	5.034	0.010	1.430	669537	1.09		87.5	2706	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.044	5.034	0.010	1.000	91782	1.00	Target=1.00	99.7	1619	
713.00 > 219.00	5.044	5.034	0.010	1.000	92219		1.00(0.50-1.51)		1723	

Report Date: 12-Aug-2021 12:31:55 Chrom Revision: 2.3 13-May-2021 07:57:40
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d
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 44 13C2 PFHxDA										M
815.00 > 770.00	5.394	5.383	0.011	1.529	723845	1.16		93.0	2539	M
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.394	5.383	0.011	1.000	541511	0.99	Target=4.32	99.0	347	
813.00 > 169.00	5.394	5.383	0.011	1.000	138339		3.91(2.16-6.48)		1318	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.710	0.010	1.060	475889	0.9707	Target=3.72	97.1	379	
913.00 > 169.00	5.710	5.710	0.0	1.059	126036		3.78(1.86-5.58)		1006	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:31:55 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d

Injection Date: 11-Aug-2021 13:51:50 Instrument ID: LC812

Lims ID: LCS 200-170043/2-A

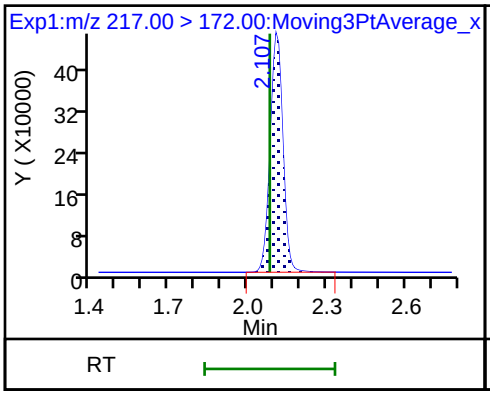
Client ID:

Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9

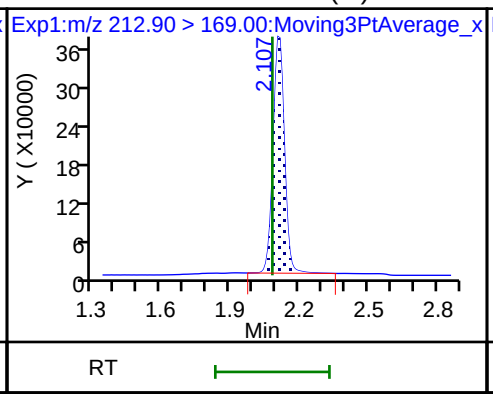
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

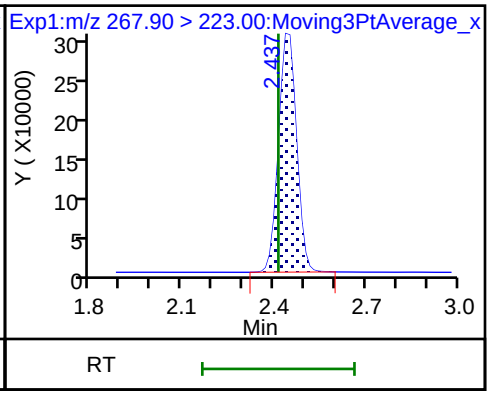
D 1 13C4 PFBA



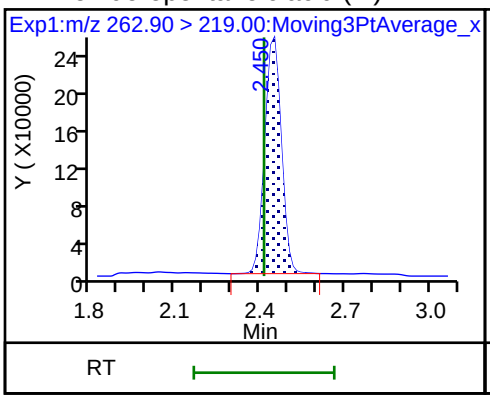
2 Perfluorobutanoic acid (M)



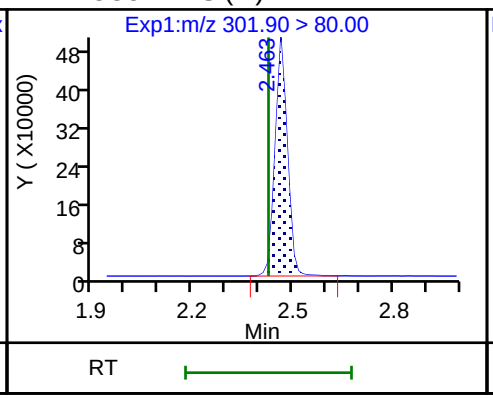
D 3 13C5 PFPeA



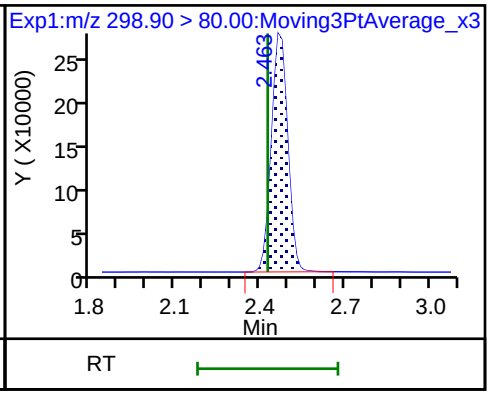
4 Perfluoropentanoic acid (M)



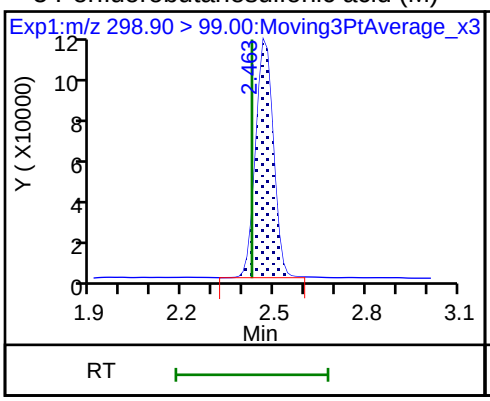
D 47 13C3 PFBS (M)



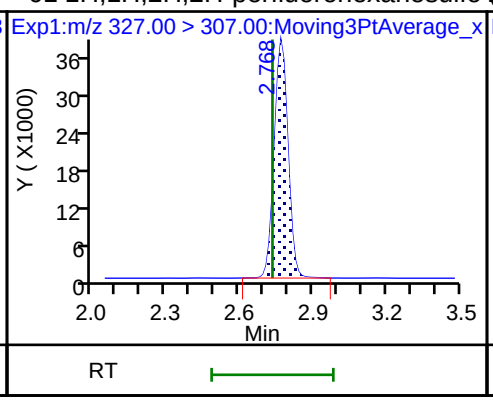
5 Perfluorobutanesulfonic acid



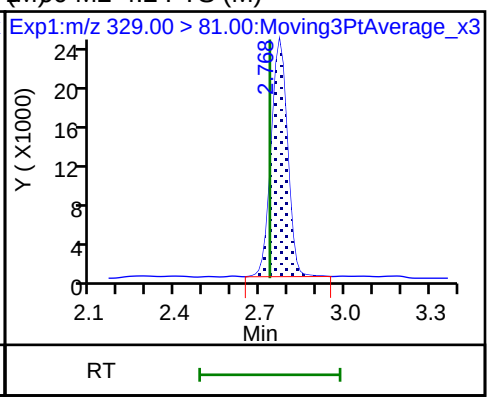
5 Perfluorobutanesulfonic acid (M)



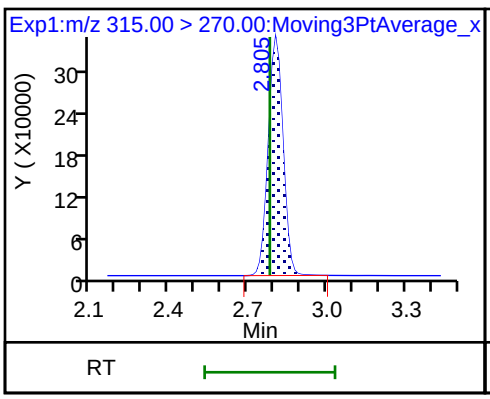
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



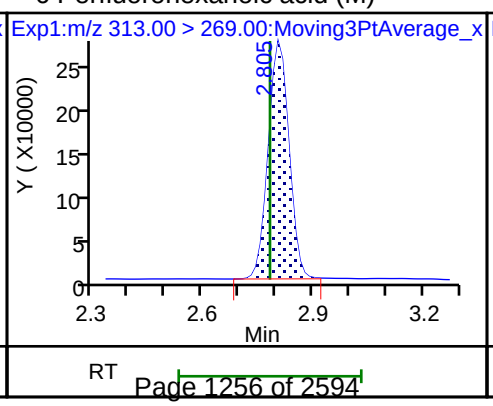
60 M2-4:2 FTS (M)



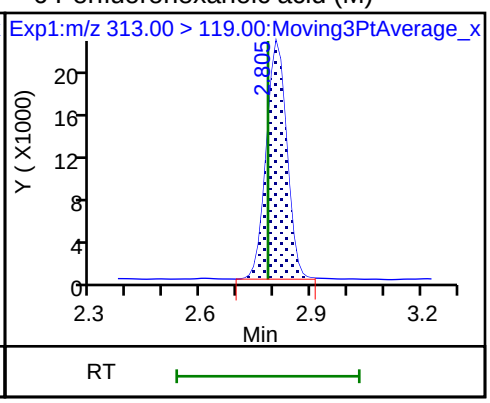
D 7 13C2 PFHxA



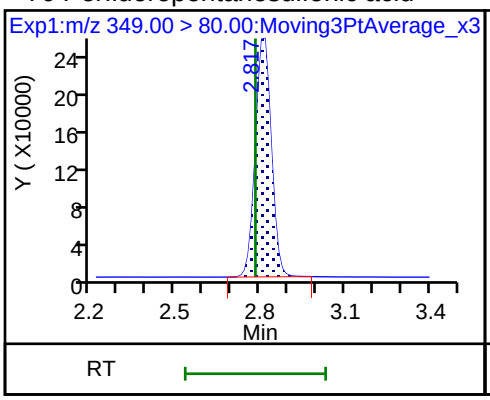
6 Perfluorohexanoic acid (M)



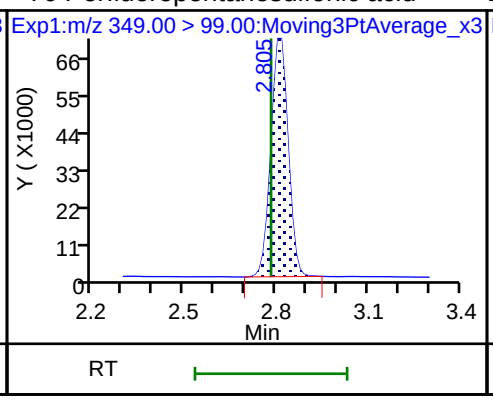
6 Perfluorohexanoic acid (M)



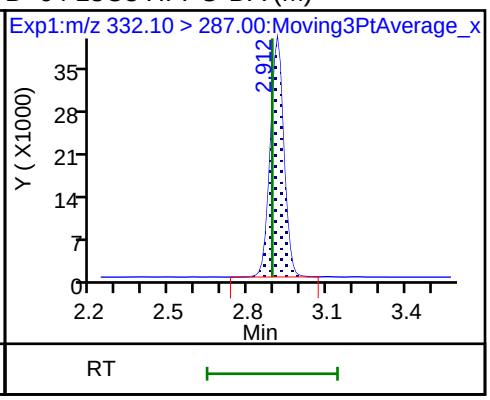
70 Perfluoropentanesulfonic acid



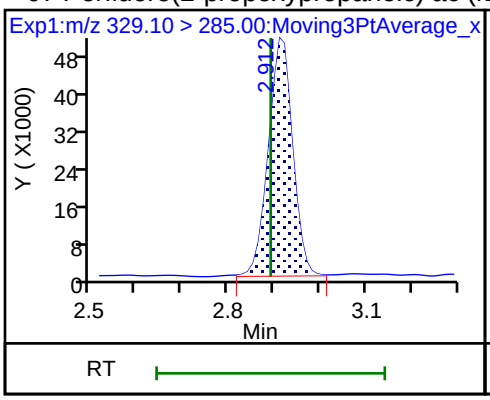
70 Perfluoropentanesulfonic acid



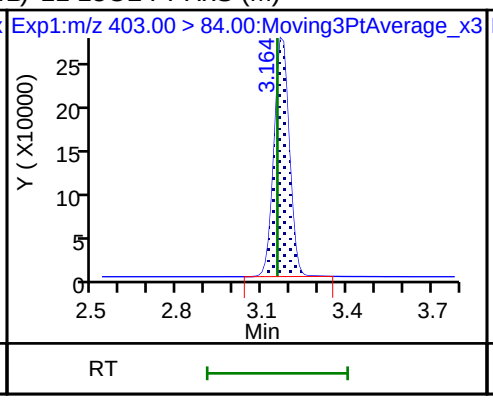
D 64 13C3 HFPO-DA (M)



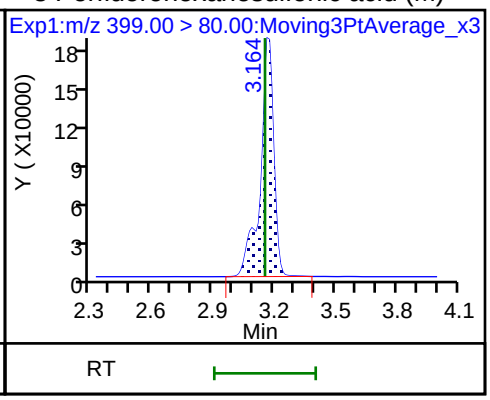
67 Perfluoro(2-propoxypropanoic) ac (M)



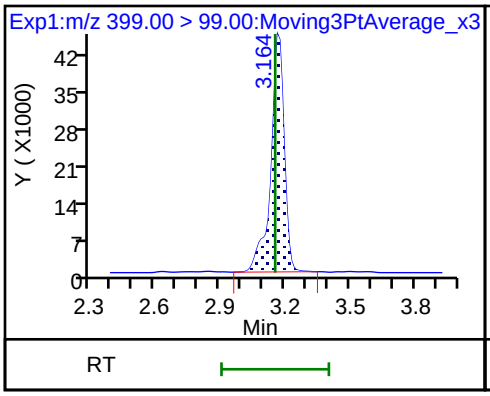
D 11 18O2 PFHxS (M)



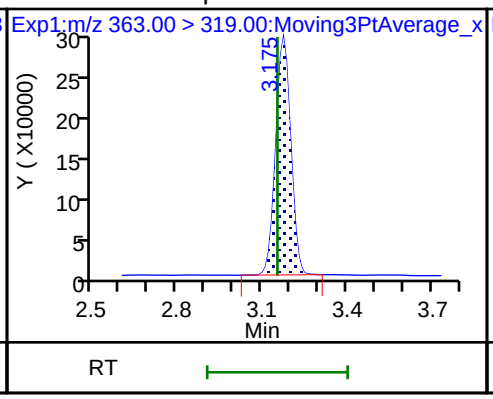
8 Perfluorohexanesulfonic acid (M)



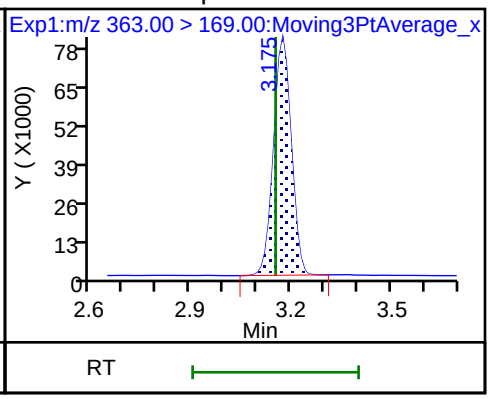
8 Perfluorohexanesulfonic acid



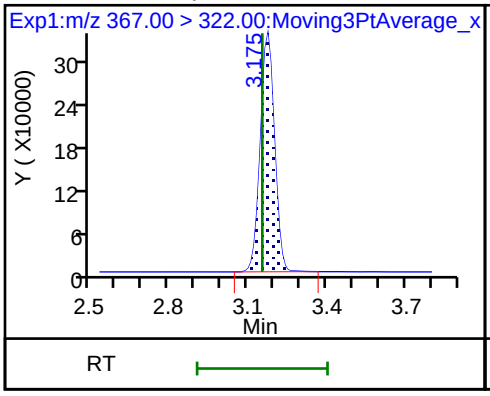
10 Perfluoroheptanoic acid



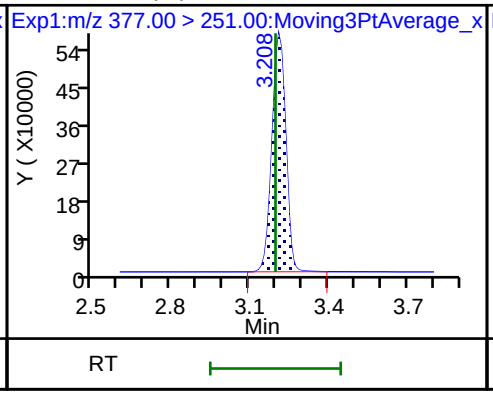
10 Perfluoroheptanoic acid



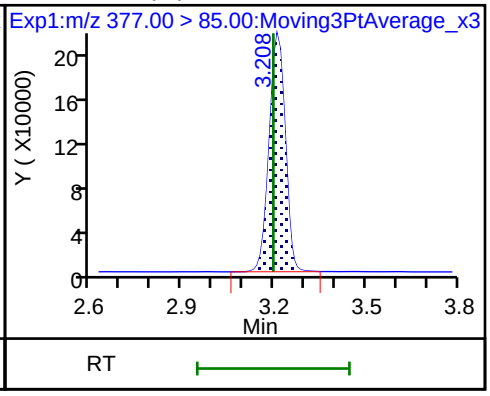
D 9 13C4 PFHpA



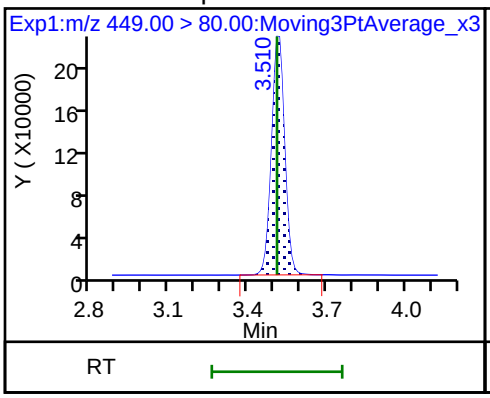
77 DONA (M)



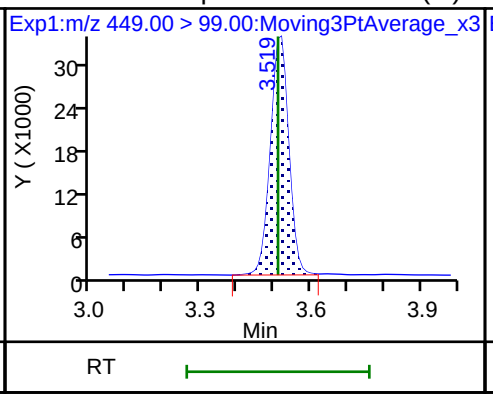
77 DONA (M)



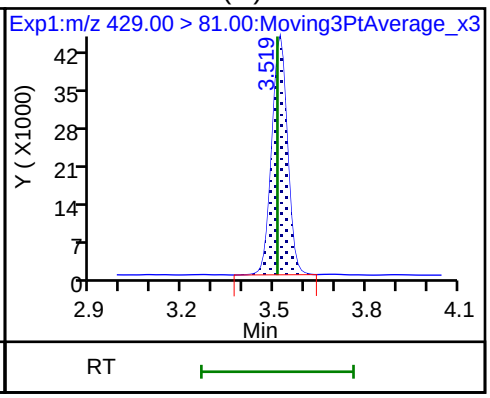
16 Perfluoroheptanesulfonic acid



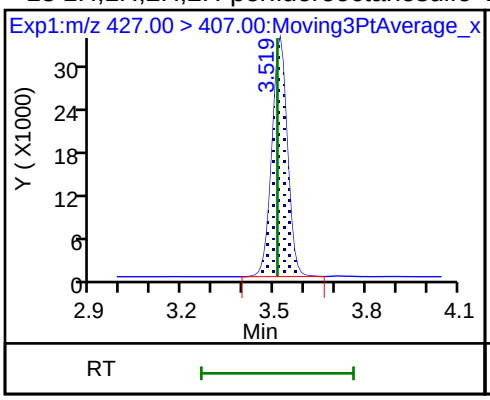
16 Perfluoroheptanesulfonic acid (M)



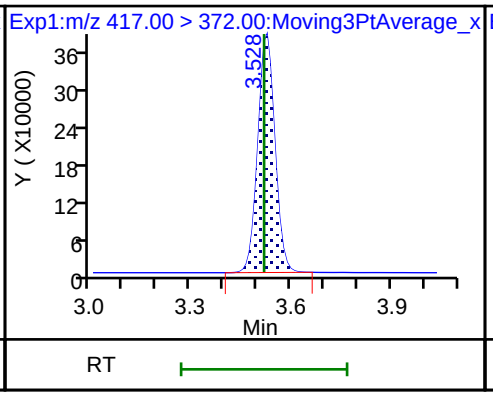
D 12 M2-6:2 FTS (M)



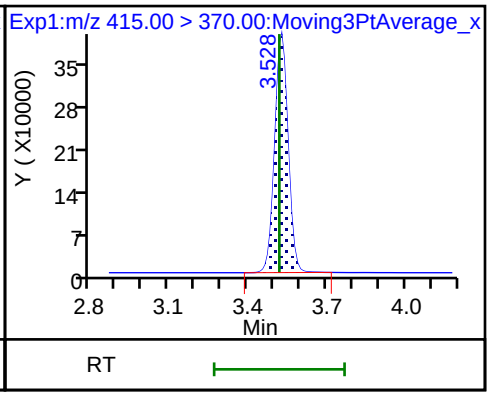
13 1H,1H,2H,2H-perfluorooctanesulfo



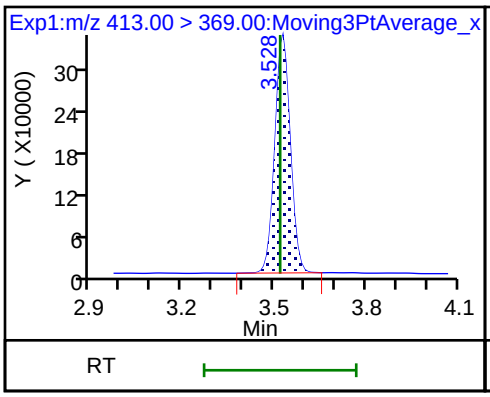
D 14 13C4 PFOA



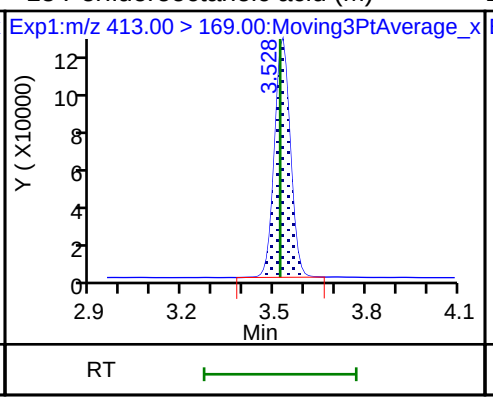
* 62 13C2 PFOA



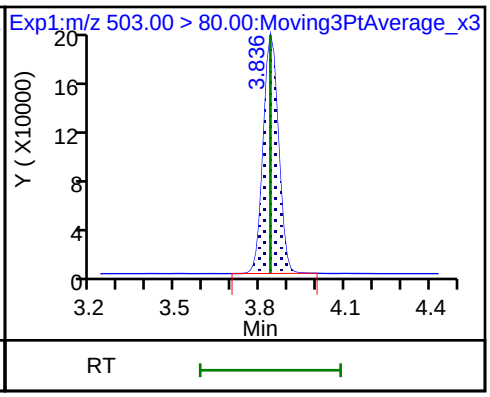
15 Perfluorooctanoic acid



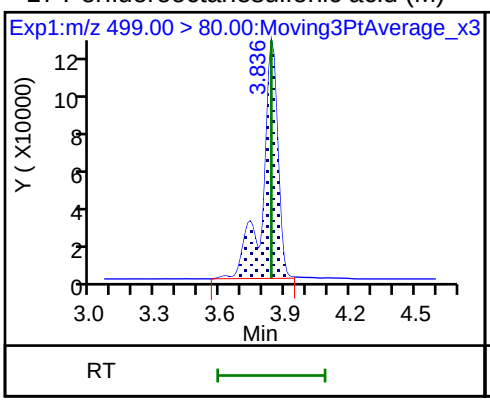
15 Perfluorooctanoic acid (M)



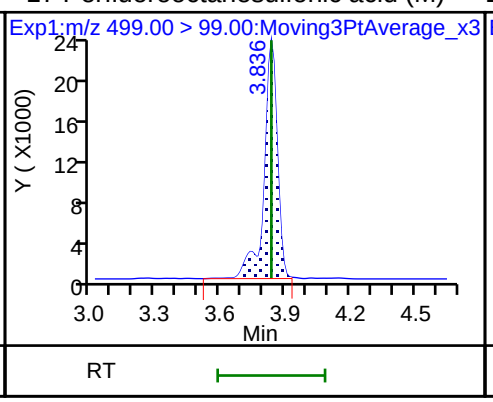
D 18 13C4 PFOS



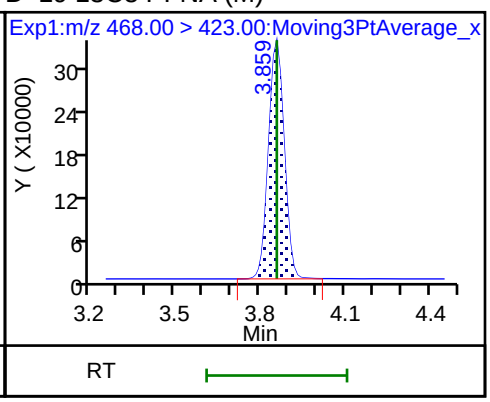
17 Perfluorooctanesulfonic acid (M)



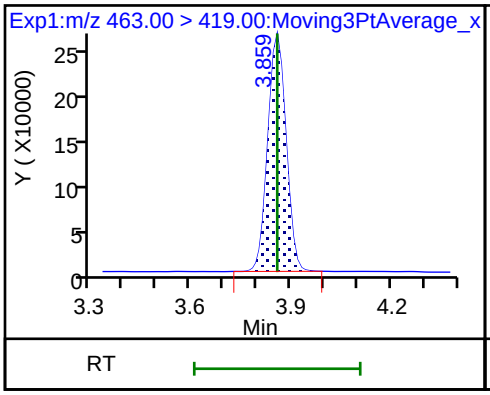
17 Perfluorooctanesulfonic acid (M)



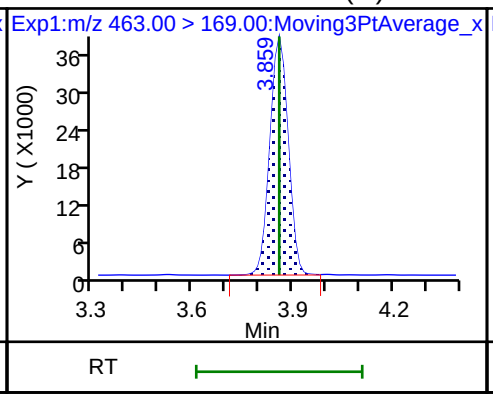
D 19 13C5 PFNA (M)



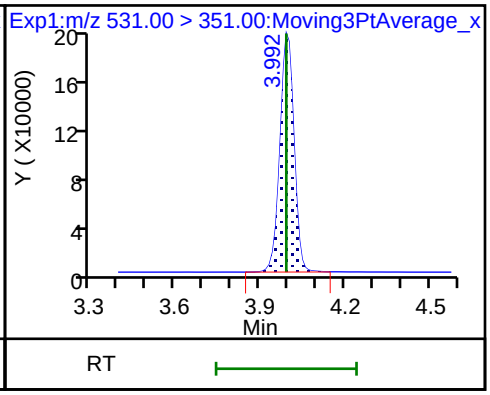
20 Perfluorononanoic acid



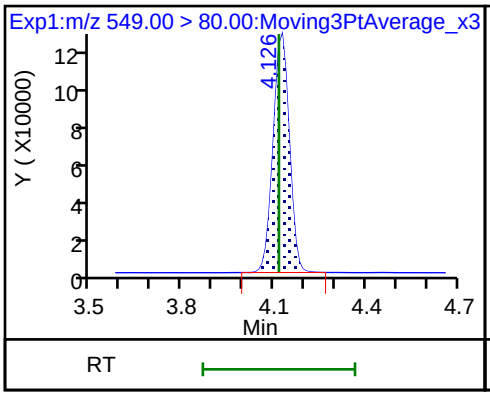
20 Perfluorononanoic acid (M)



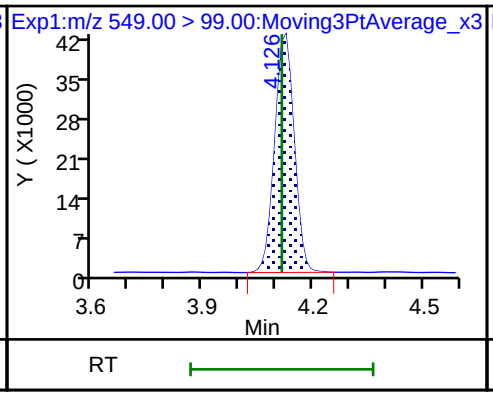
69 9-Chlorohexadecafluoro-3-oxanona (M)



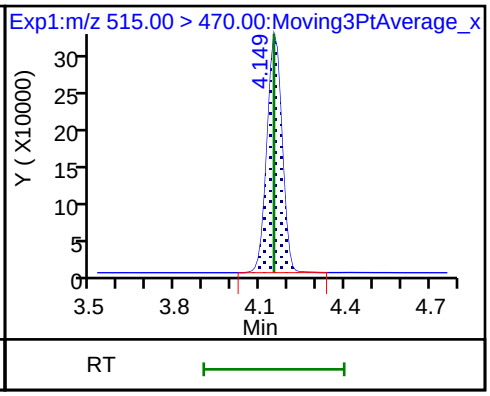
68 Perfluorononanesulfonic acid



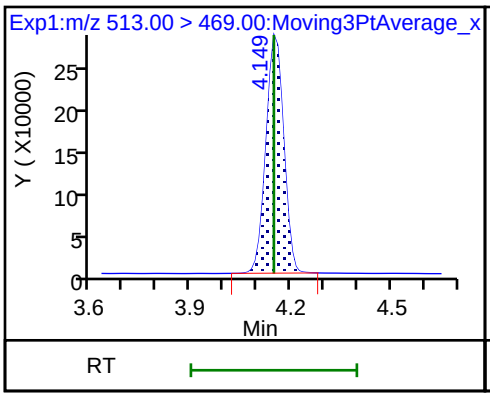
68 Perfluorononanesulfonic acid



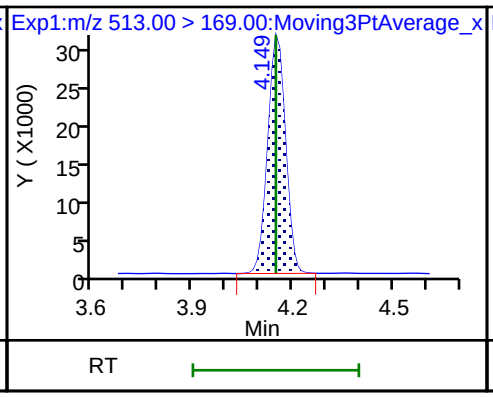
D 23 13C2 PFDA



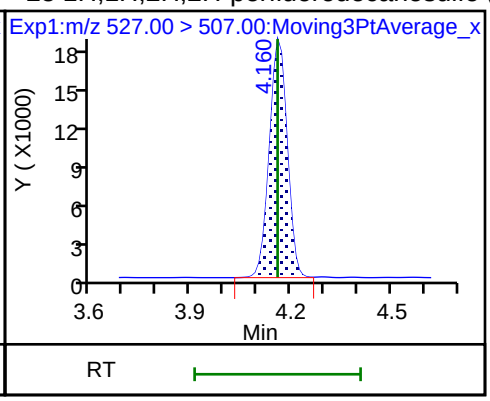
24 Perfluorodecanoic acid



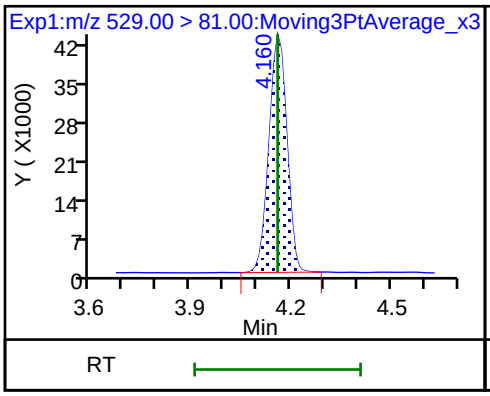
24 Perfluorodecanoic acid



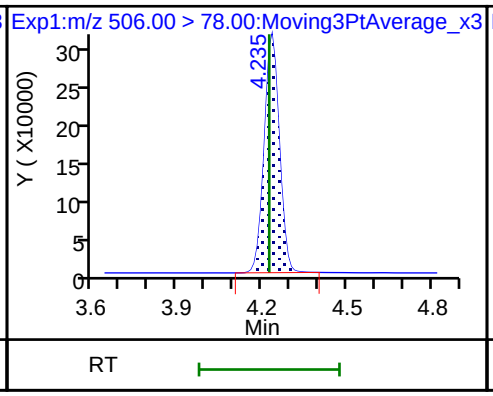
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



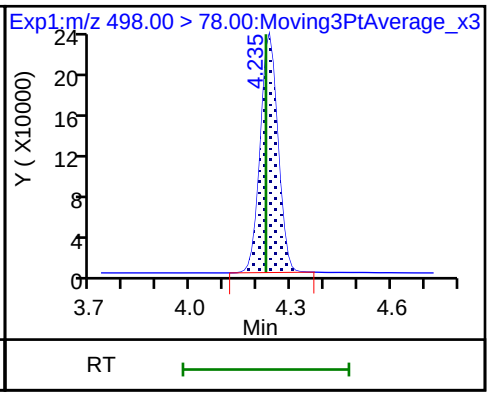
D 26 M2-8:2 FTS



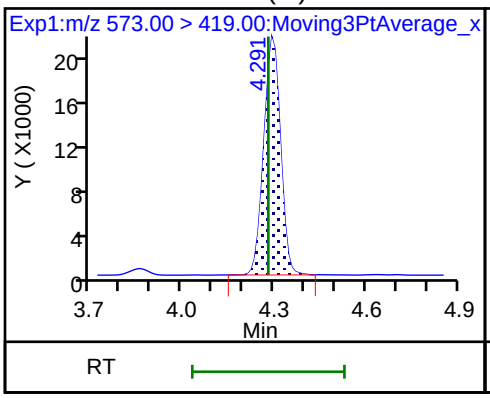
D 21 13C8 FOSA



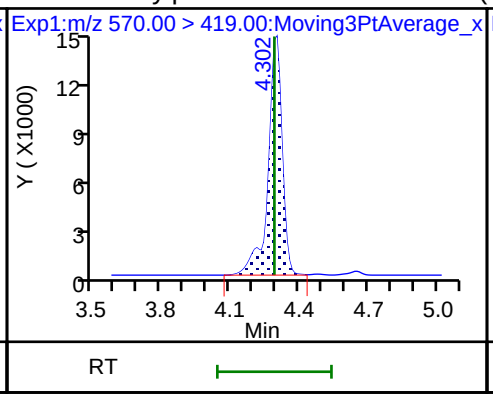
22 Perfluorooctanesulfonamide



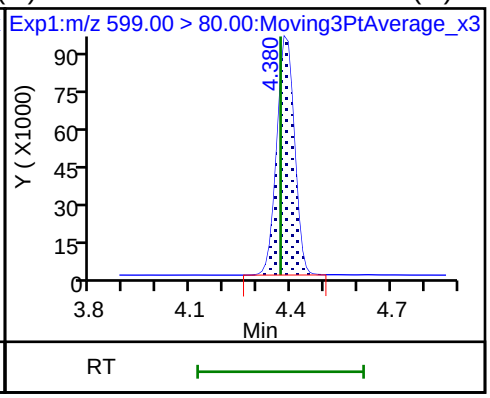
D 27 d3-NMeFOSAA (M)



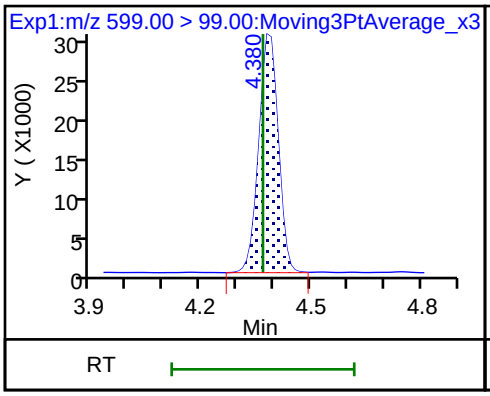
28 N-methylperfluorooctanesulfonami (M)



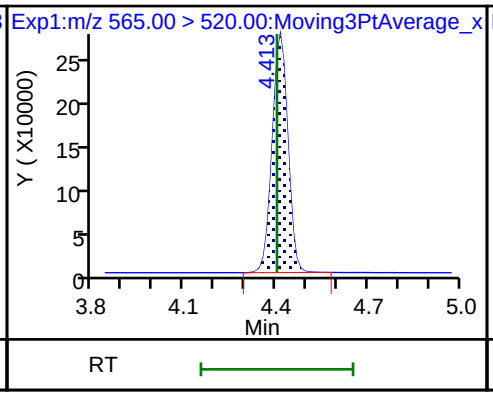
29 Perfluorodecanesulfonic acid (M)



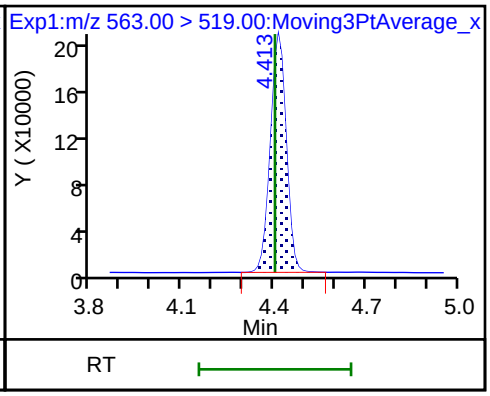
29 Perfluorodecanesulfonic acid



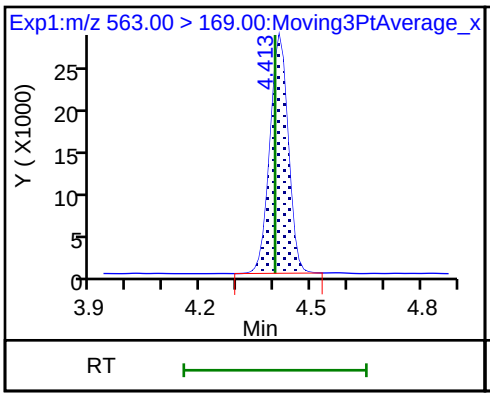
D 30 13C2 PFUnA



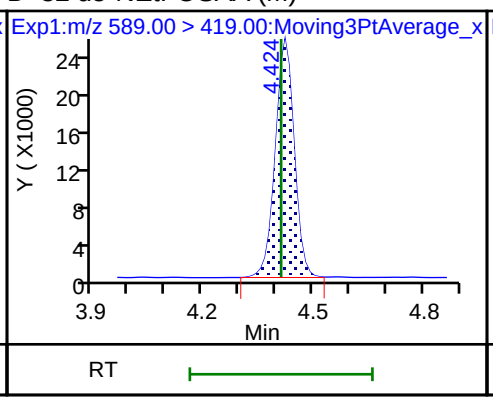
31 Perfluoroundecanoic acid



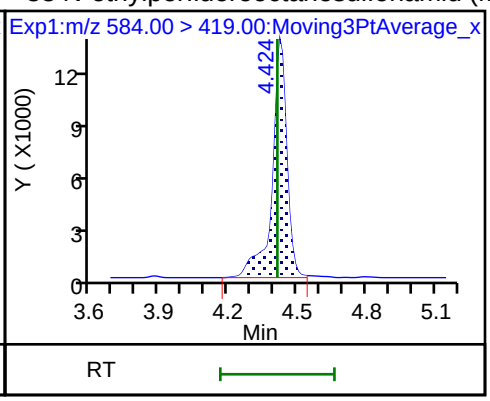
31 Perfluoroundecanoic acid



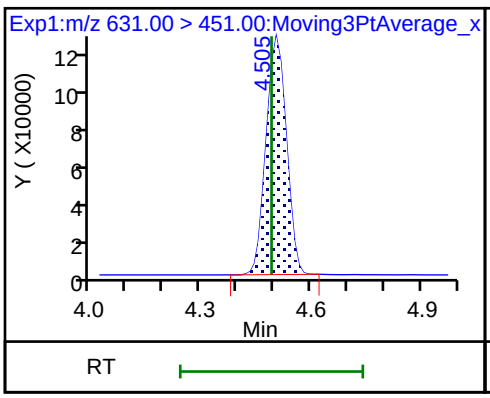
D 32 d5-NEtFOSAA (M)



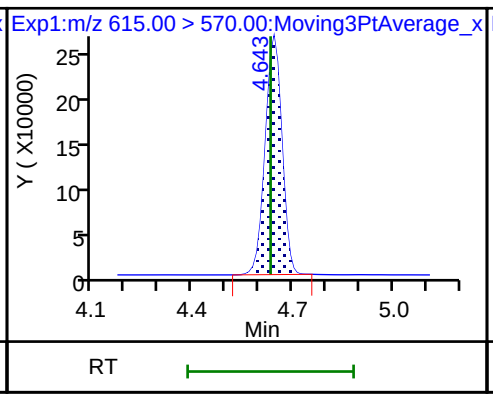
33 N-ethylperfluorooctanesulfonamid (M)



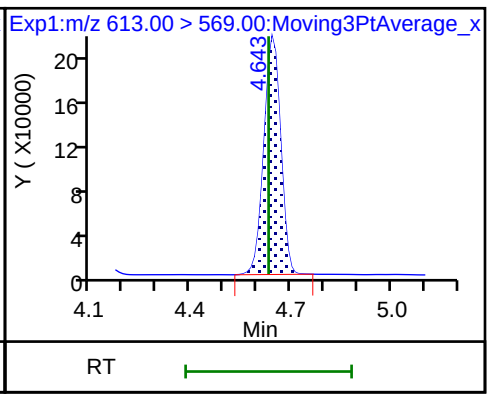
66 11-Chloroeicosafluoro-3-oxaundec



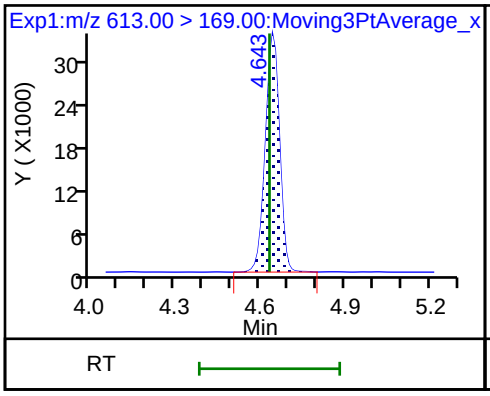
D 36 13C2 PFDoA



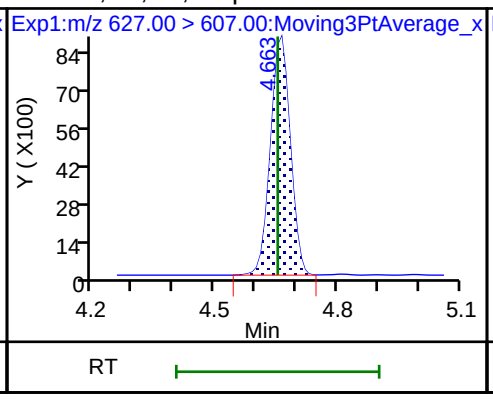
37 Perfluorododecanoic acid



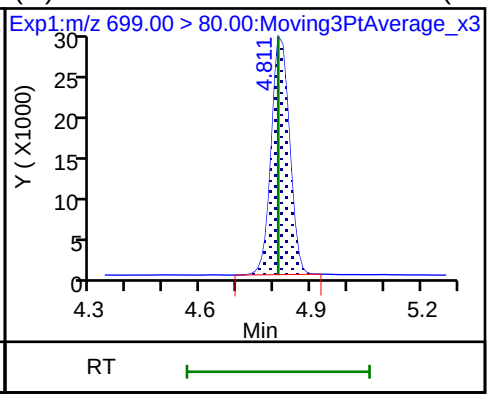
37 Perfluorododecanoic acid



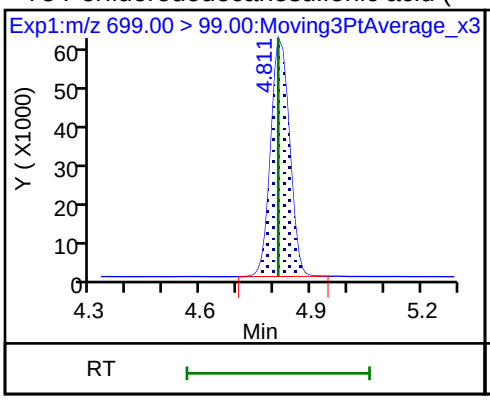
74 1H,1H,2H,2H-perfluorododecanesul (M)



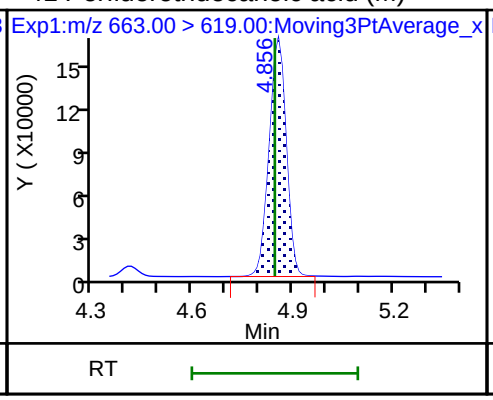
75 Perfluorododecanesulfonic acid (



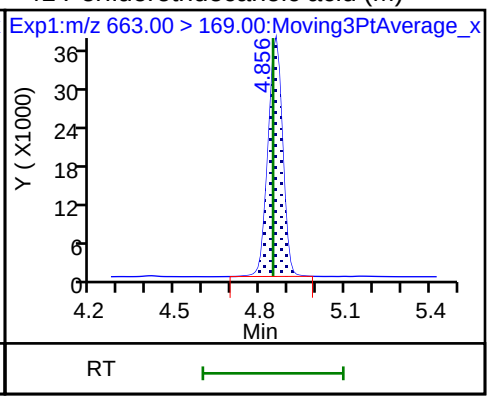
75 Perfluorododecanesulfonic acid (



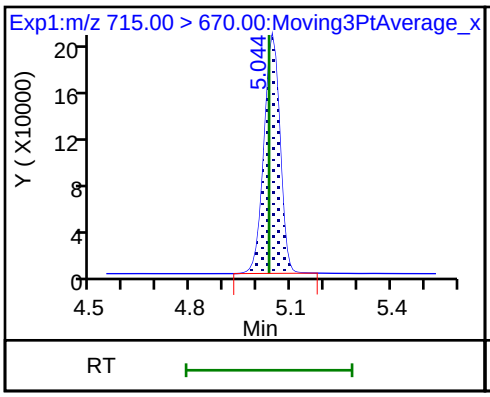
41 Perfluorotridecanoic acid (M)



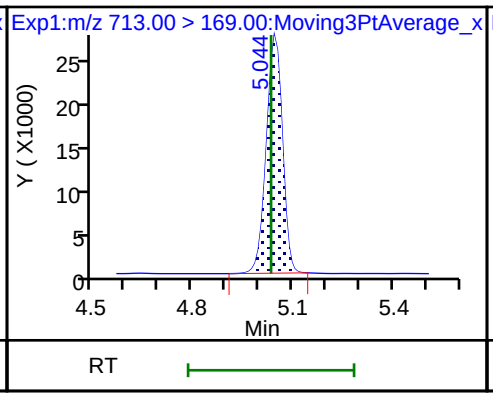
41 Perfluorotridecanoic acid (M)



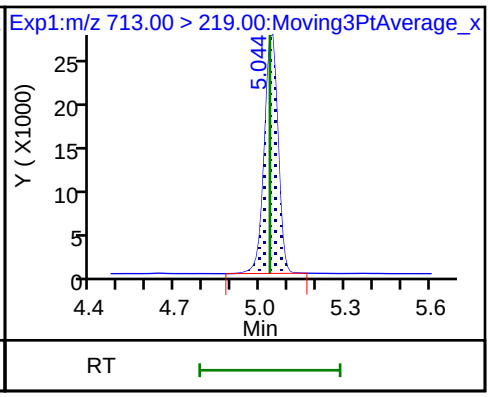
D 43 13C2 PFTeDA



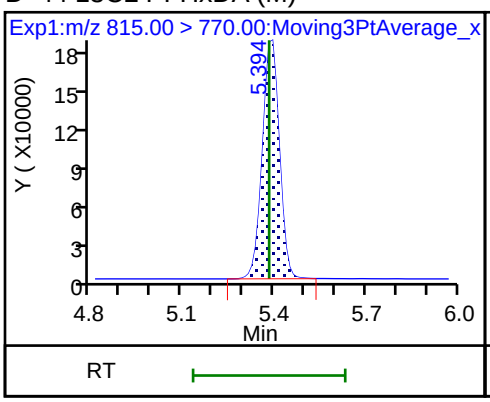
42 Perfluorotetradecanoic acid



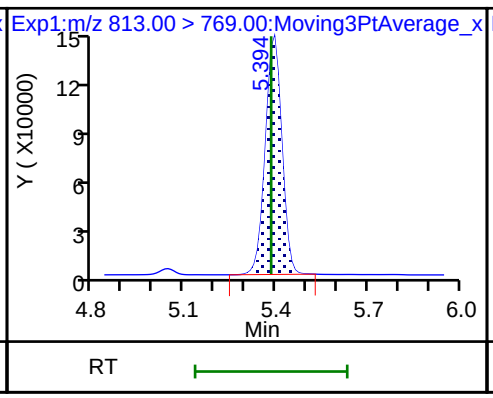
42 Perfluorotetradecanoic acid



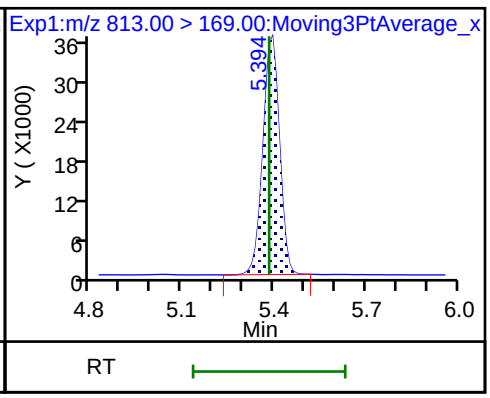
D 44 13C2 PFHxDA (M)



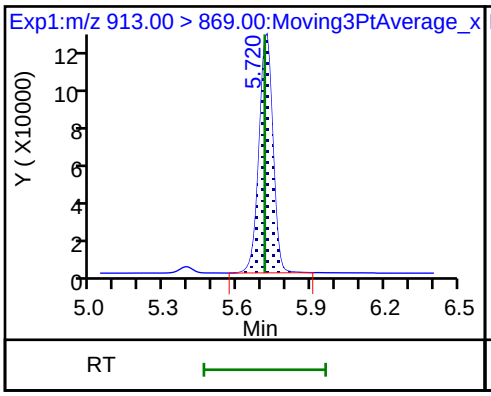
45 Perfluorohexadecanoic acid



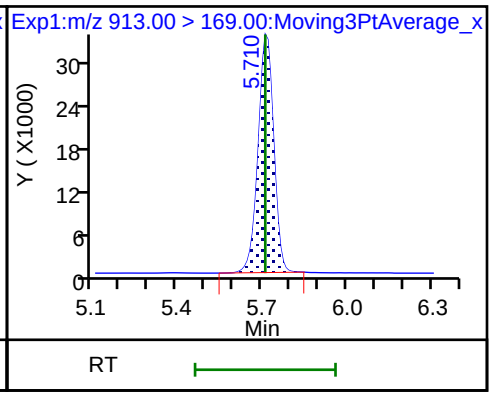
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

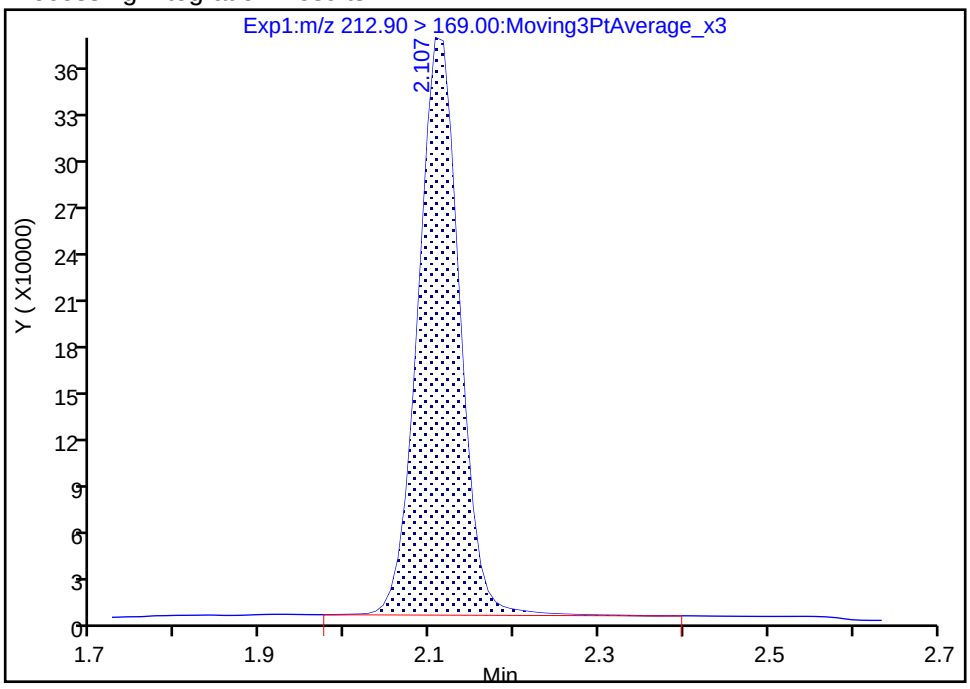
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Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

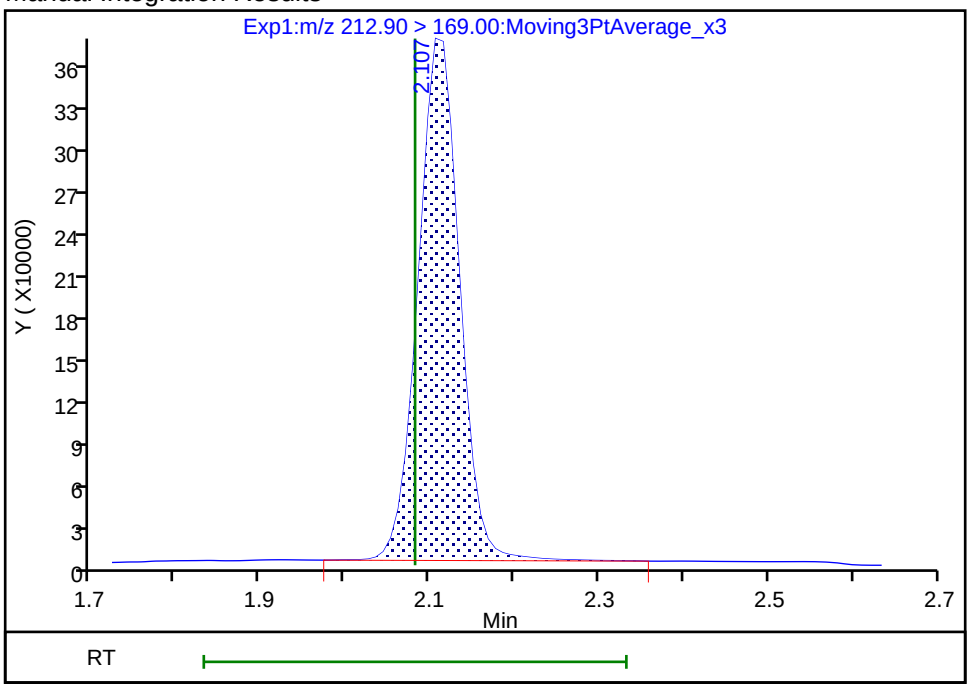
Processing Integration Results

RT: 2.11
Area: 1259962
Amount: 1.063627
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 1259538
Amount: 1.063269
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:35:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

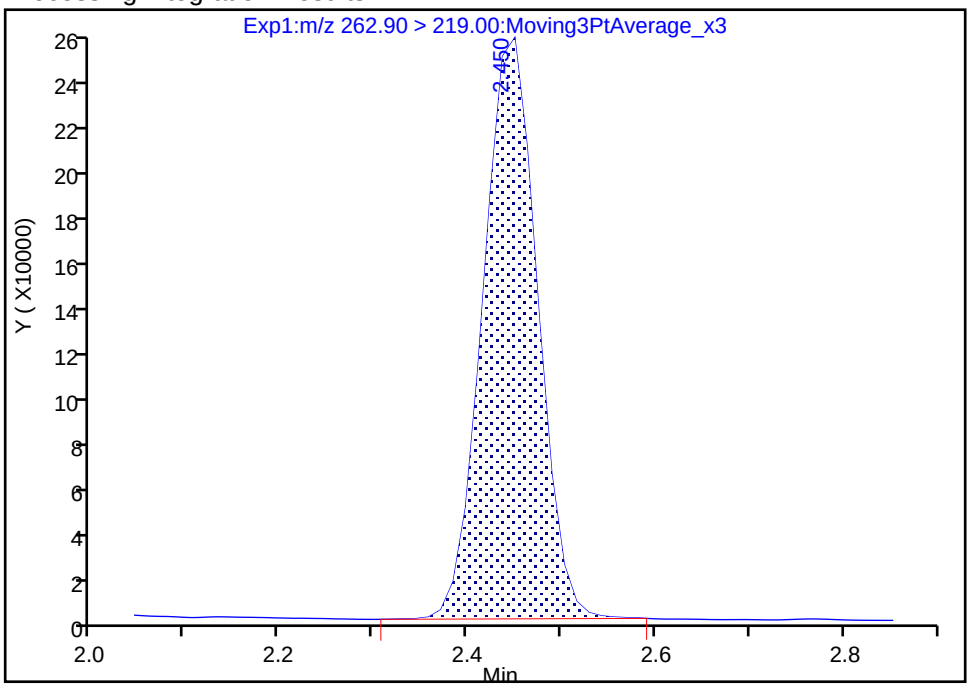
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Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

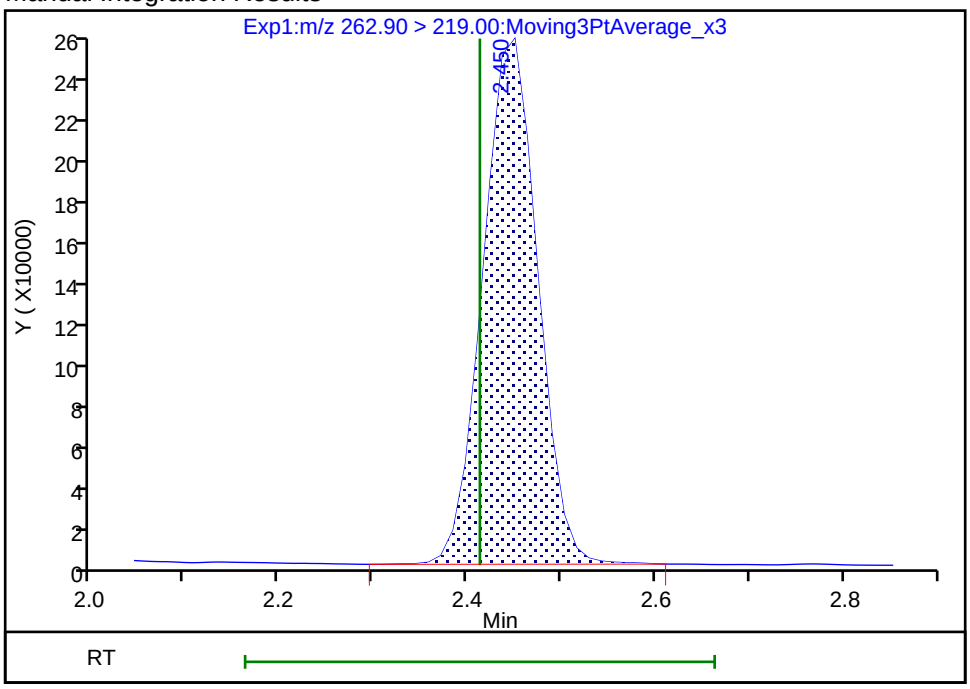
Processing Integration Results

RT: 2.45
Area: 1004206
Amount: 0.968894
Amount Units: ng/ml



Manual Integration Results

RT: 2.45
Area: 1007078
Amount: 0.971665
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:35:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

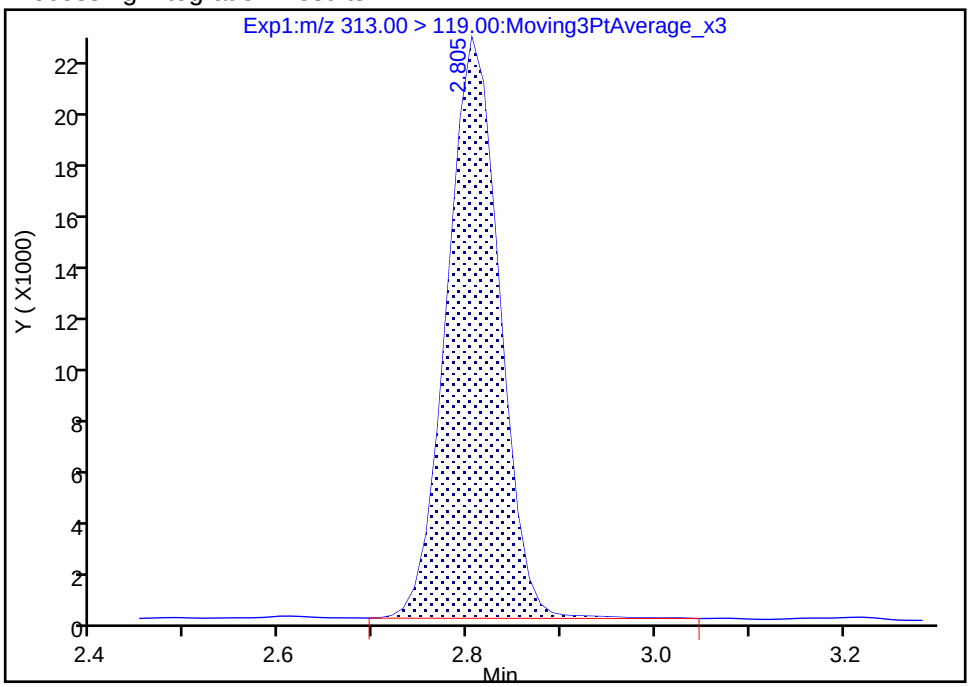
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

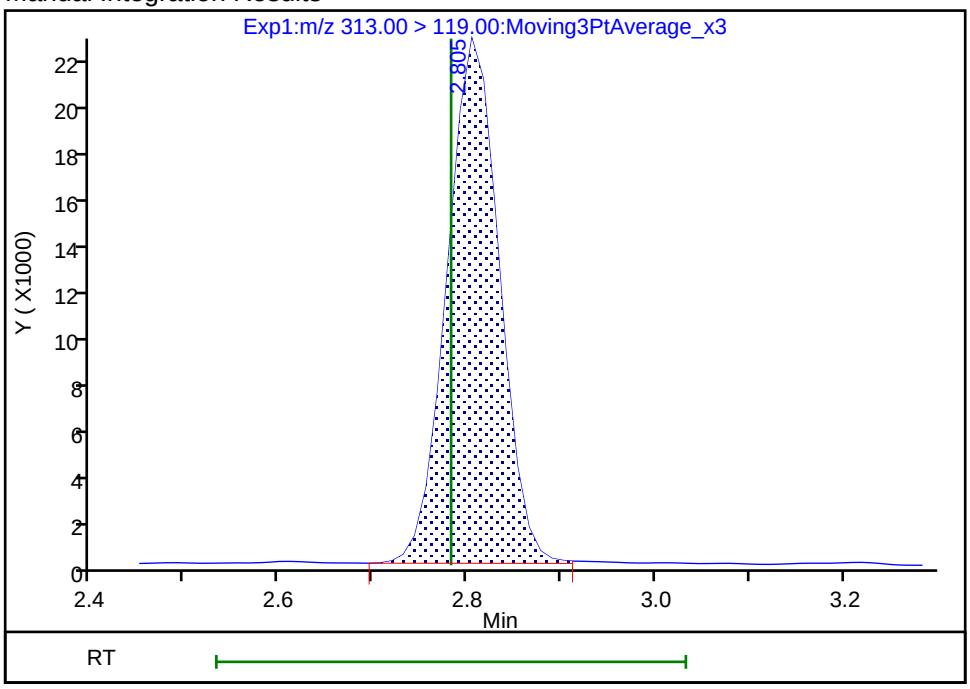
Processing Integration Results

RT: 2.80
Area: 85374
Amount: 0.980467
Amount Units: ng/ml



Manual Integration Results

RT: 2.80
Area: 85020
Amount: 0.981669
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:37:24

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

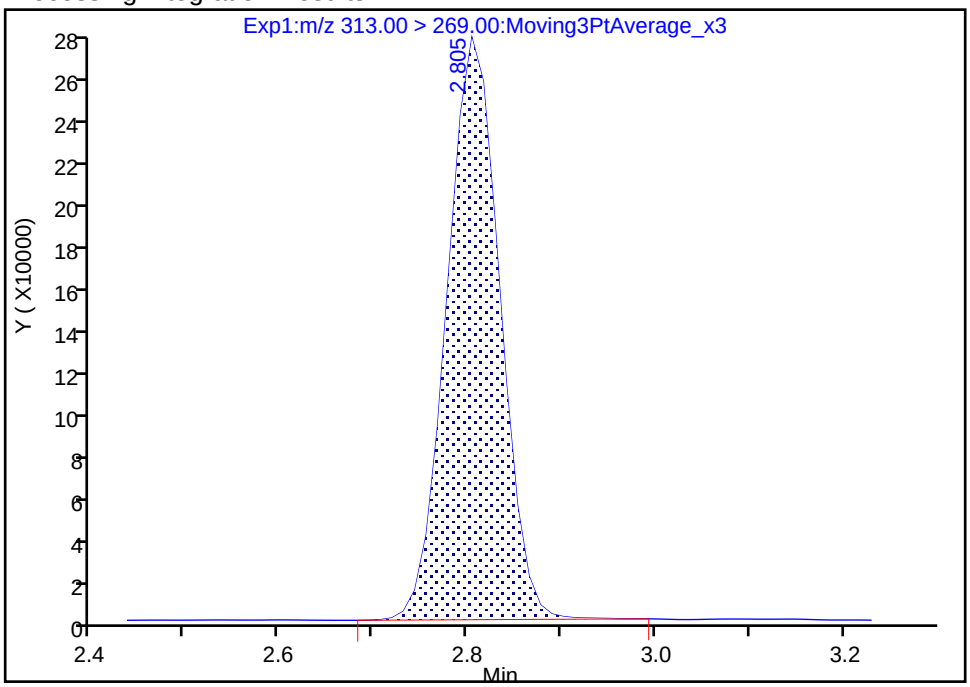
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Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

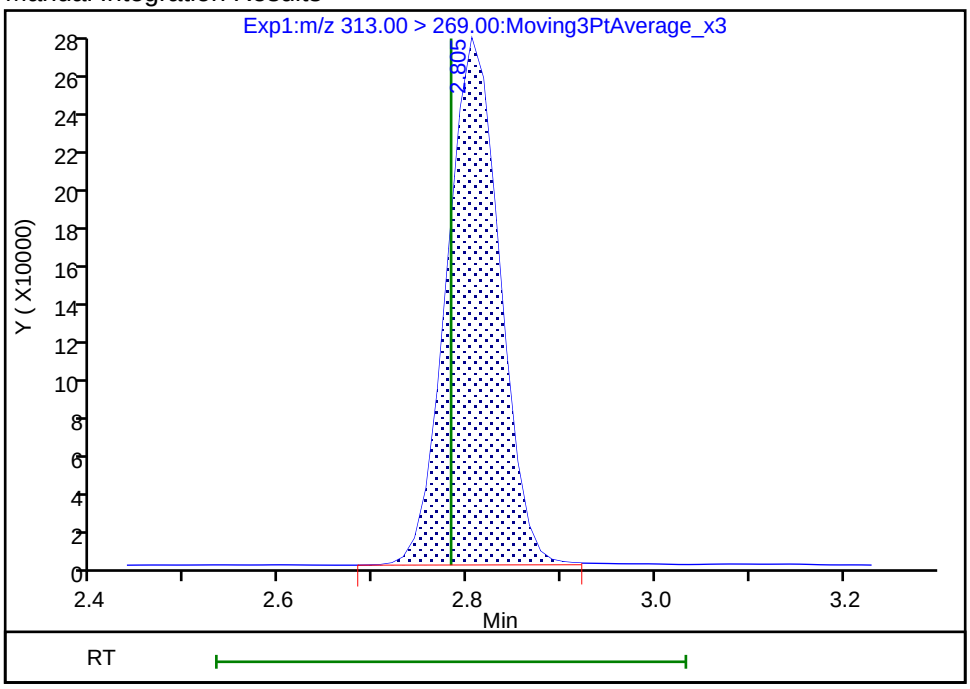
Processing Integration Results

RT: 2.80
Area: 1062489
Amount: 0.980467
Amount Units: ng/ml



Manual Integration Results

RT: 2.80
Area: 1063791
Amount: 0.981669
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:37:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

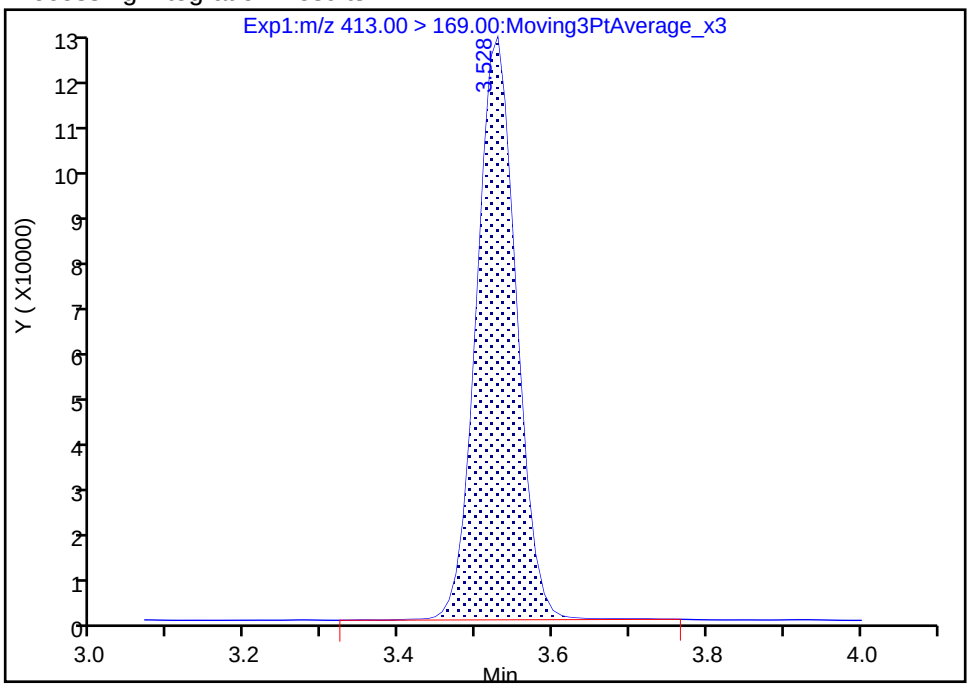
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Injection Date: 11-Aug-2021 13:51:50 Instrument ID: LC812
Lims ID: LCS 200-170043/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

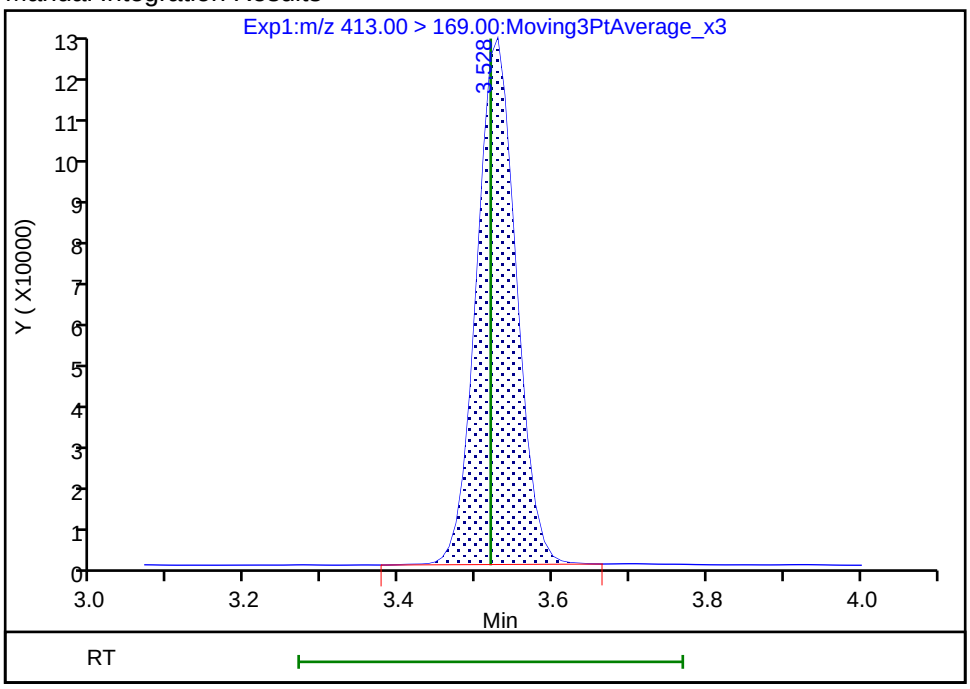
Processing Integration Results

RT: 3.53
Area: 457017
Amount: 1.041613
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 455371
Amount: 1.041613
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:38:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

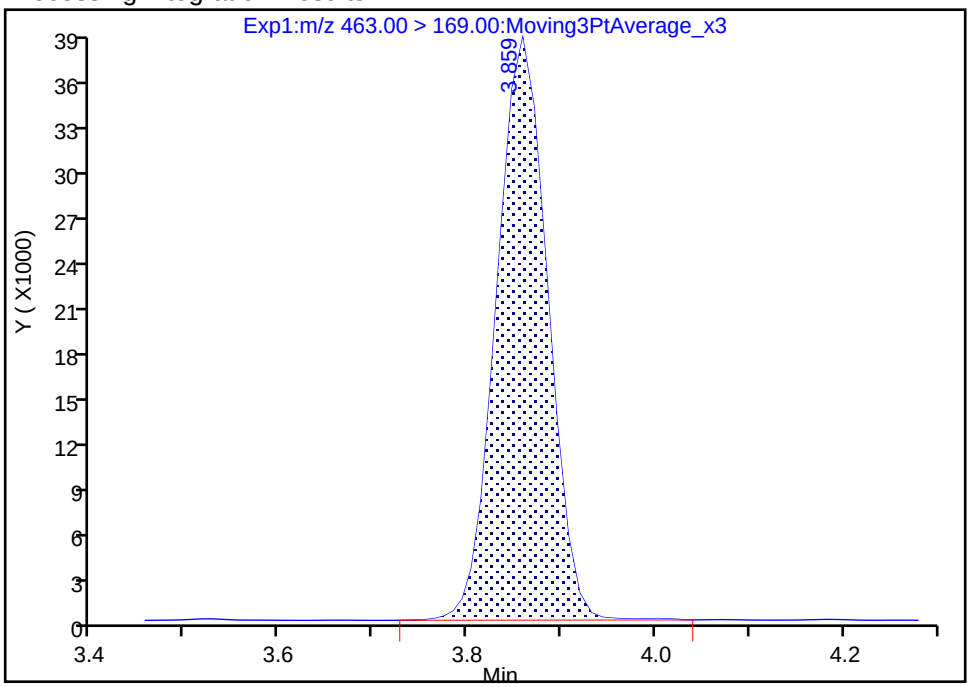
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

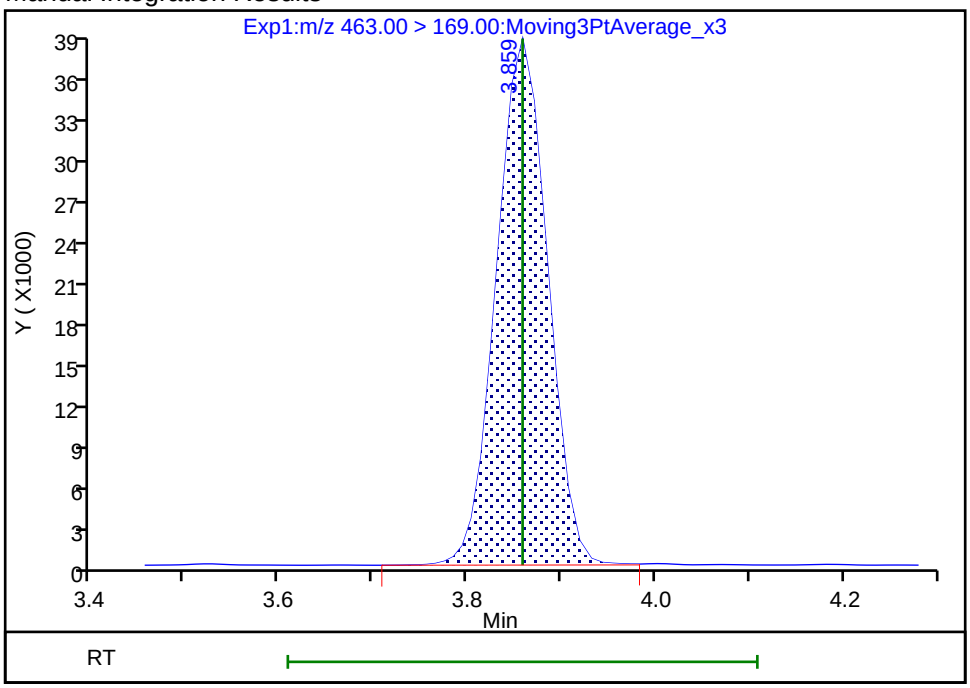
Processing Integration Results

RT: 3.86
Area: 145506
Amount: 1.019627
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 145367
Amount: 1.019627
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:39:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

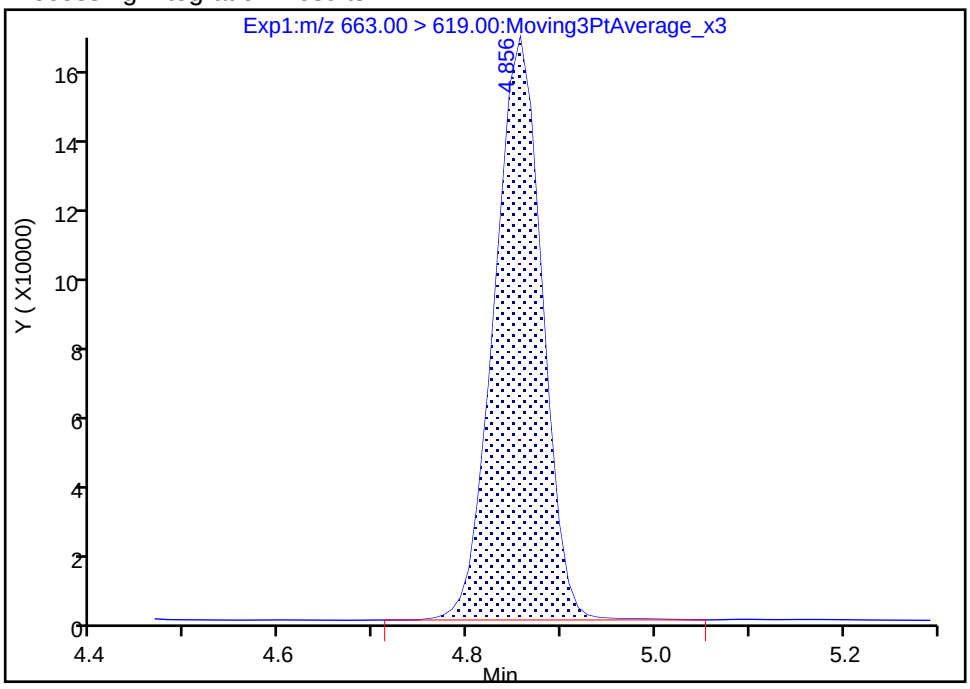
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Injection Date: 11-Aug-2021 13:51:50 Instrument ID: LC812
Lims ID: LCS 200-170043/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

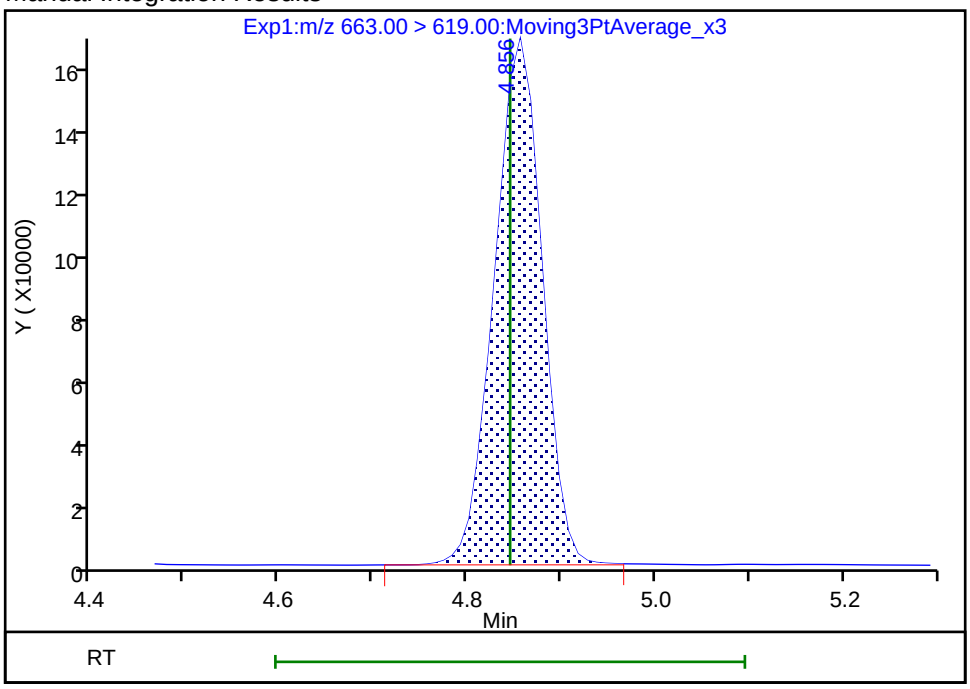
Processing Integration Results

RT: 4.86
Area: 595489
Amount: 0.927460
Amount Units: ng/ml



Manual Integration Results

RT: 4.86
Area: 594641
Amount: 0.926140
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:43:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

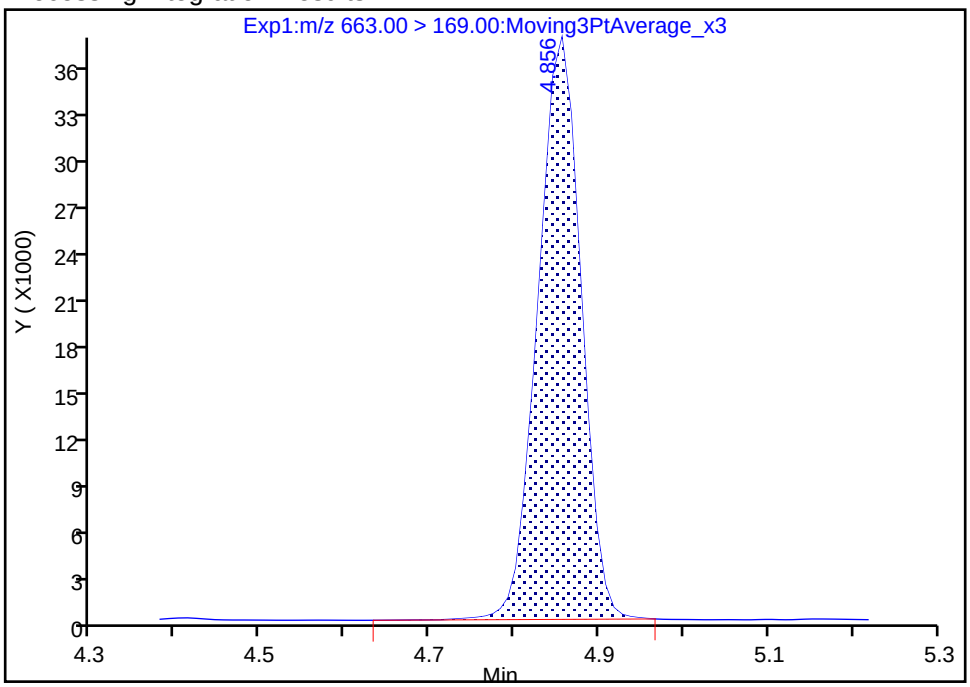
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

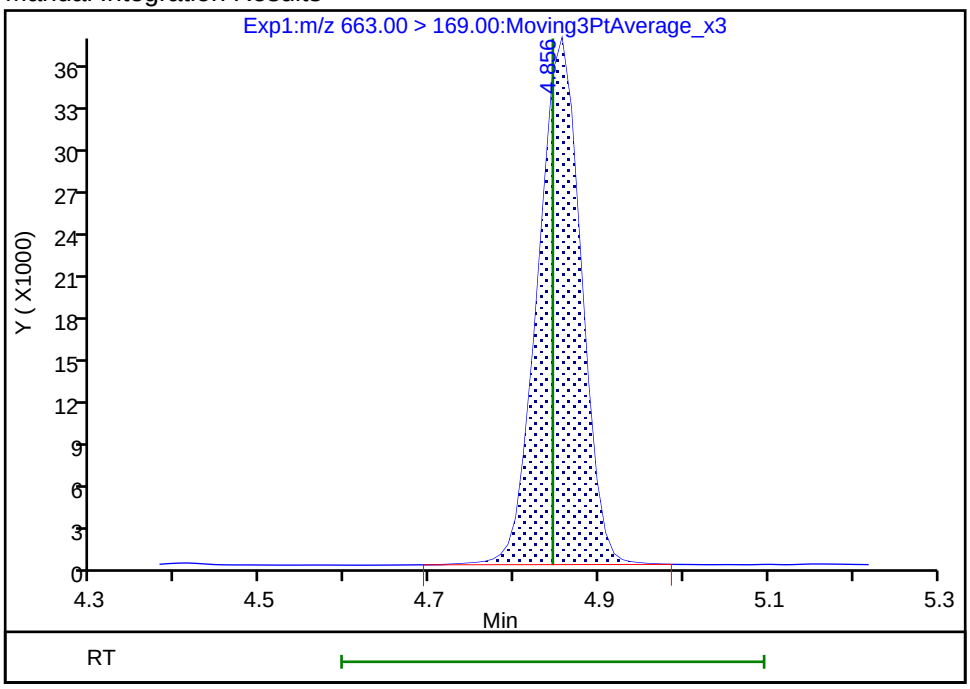
Processing Integration Results

RT: 4.86
Area: 131444
Amount: 0.927460
Amount Units: ng/ml



Manual Integration Results

RT: 4.86
Area: 131653
Amount: 0.926140
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:43:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

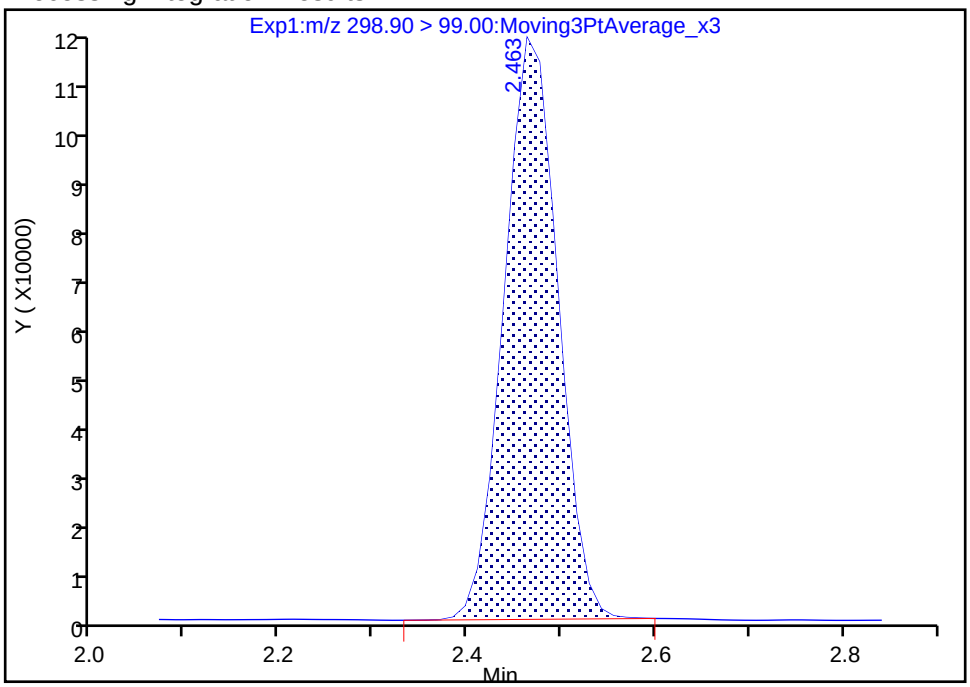
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Injection Date: 11-Aug-2021 13:51:50 Instrument ID: LC812
Lims ID: LCS 200-170043/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

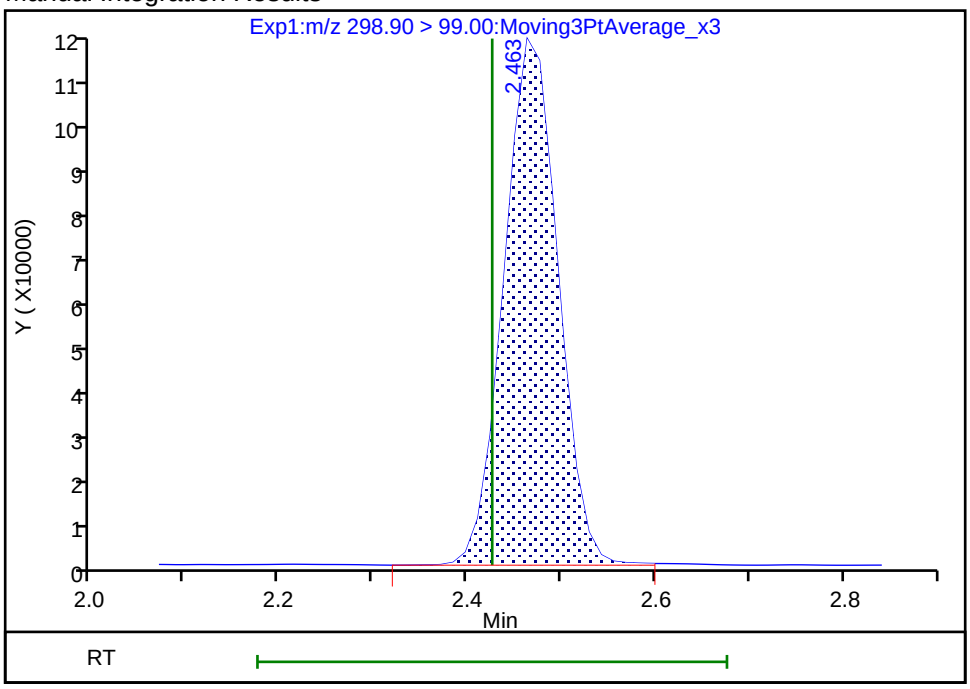
Processing Integration Results

RT: 2.46
Area: 466927
Amount: 0.915756
Amount Units: ng/ml



Manual Integration Results

RT: 2.46
Area: 469928
Amount: 0.915756
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:36:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

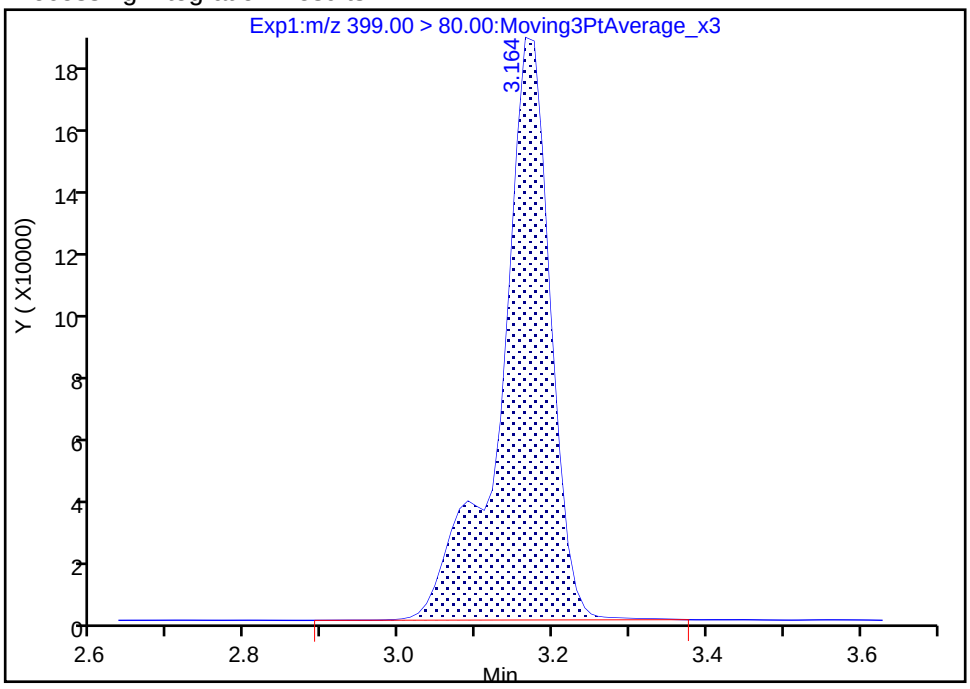
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

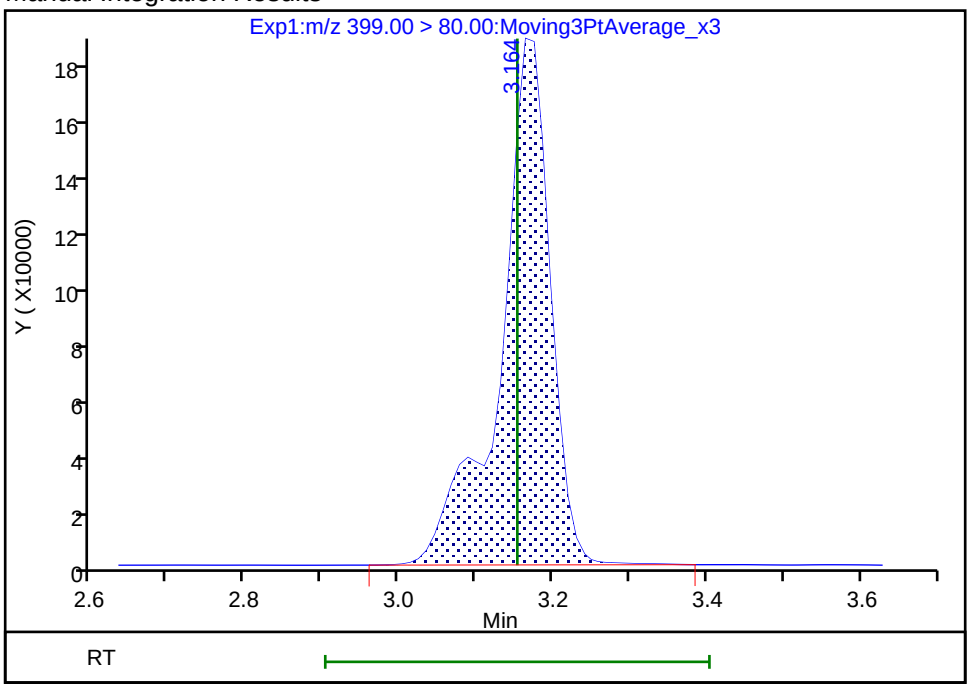
Processing Integration Results

RT: 3.16
Area: 845848
Amount: 0.855682
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 846007
Amount: 0.855843
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:37:52

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

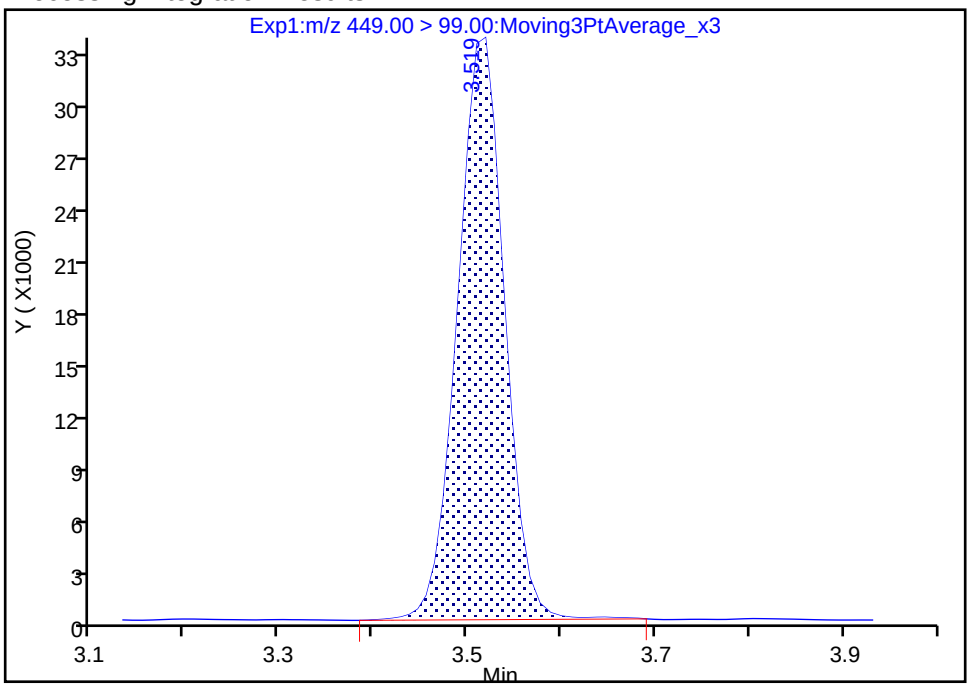
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Injection Date: 11-Aug-2021 13:51:50 Instrument ID: LC812
Lims ID: LCS 200-170043/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

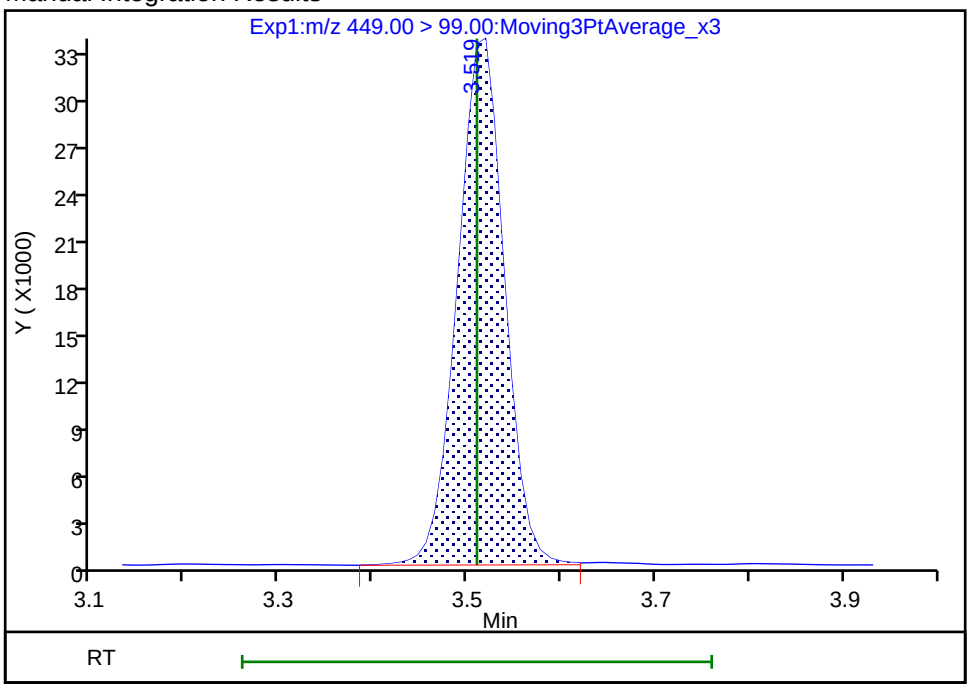
Processing Integration Results

RT: 3.52
Area: 117008
Amount: 1.031486
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 116959
Amount: 1.031486
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:38:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

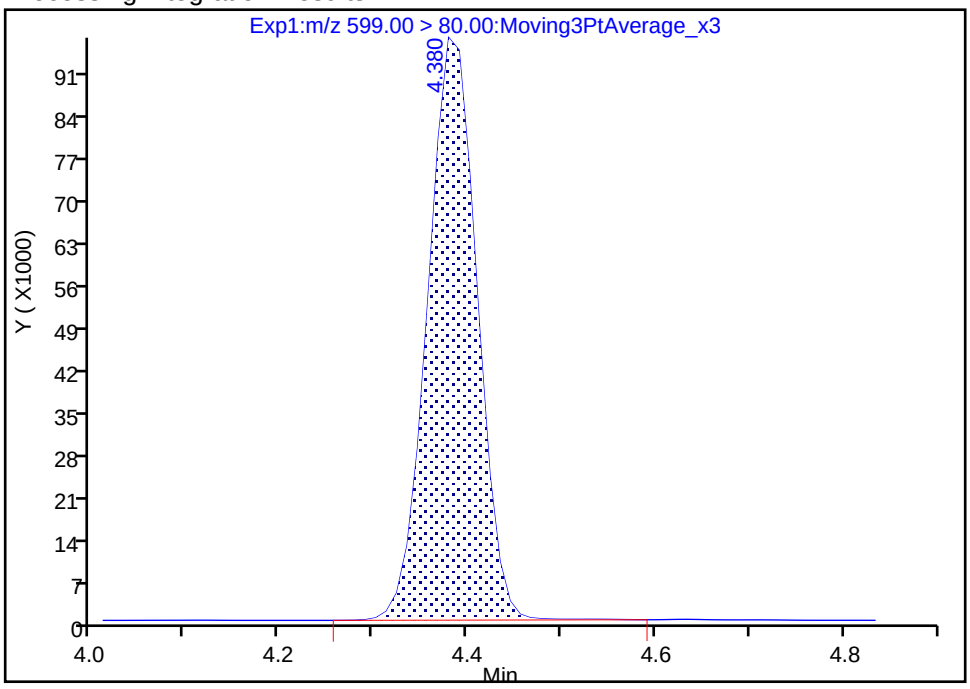
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Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

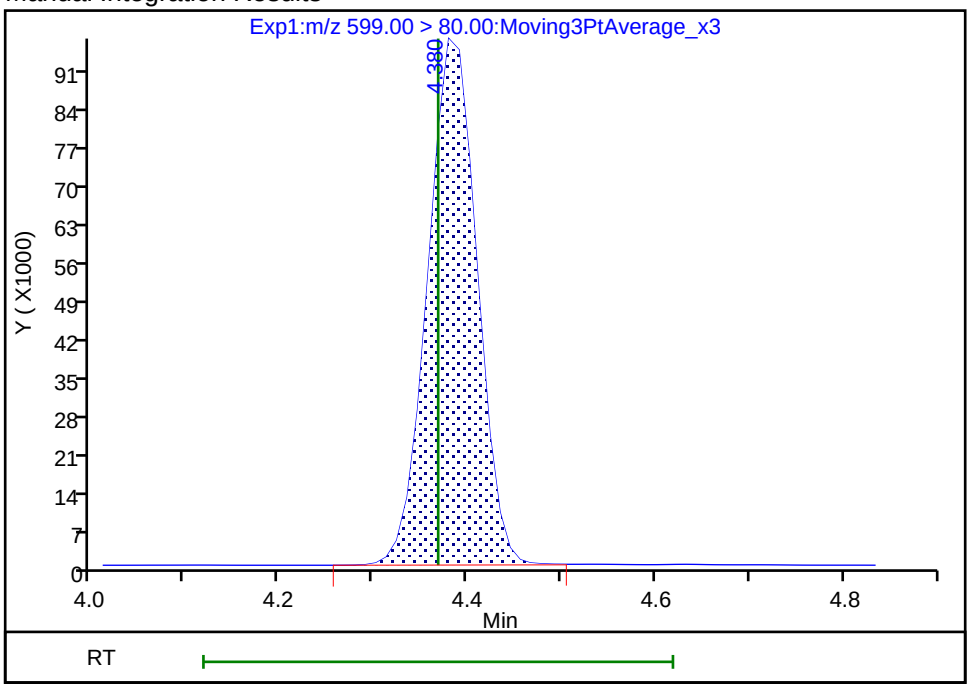
Processing Integration Results

RT: 4.38
Area: 353806
Amount: 0.936723
Amount Units: ng/ml



Manual Integration Results

RT: 4.38
Area: 353481
Amount: 0.935862
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:42:39

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

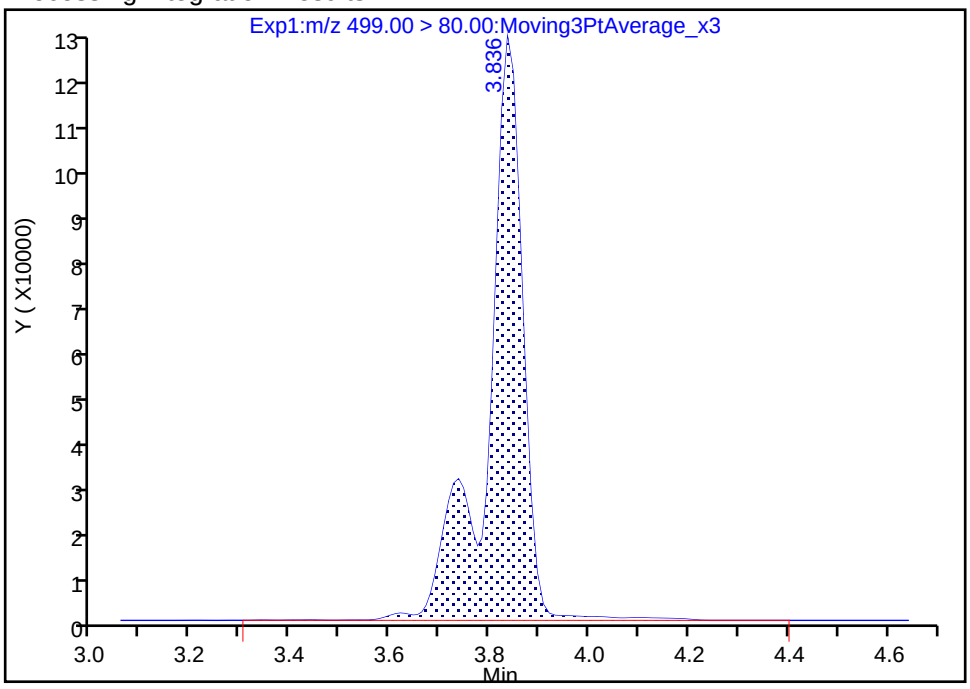
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Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

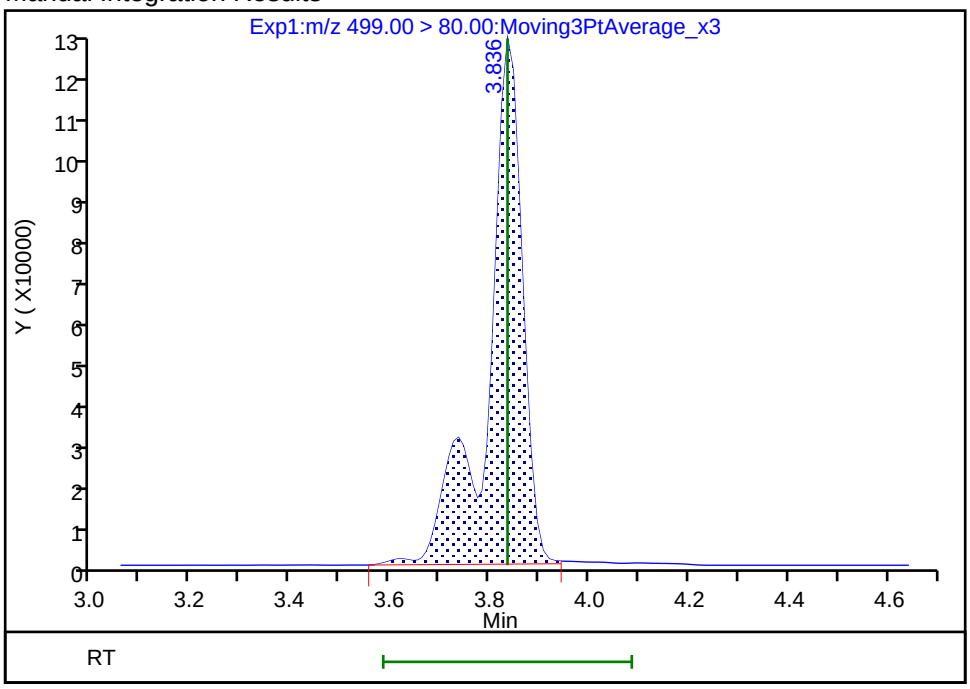
Processing Integration Results

RT: 3.84
Area: 607910
Amount: 0.909658
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 593895
Amount: 0.888686
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:39:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

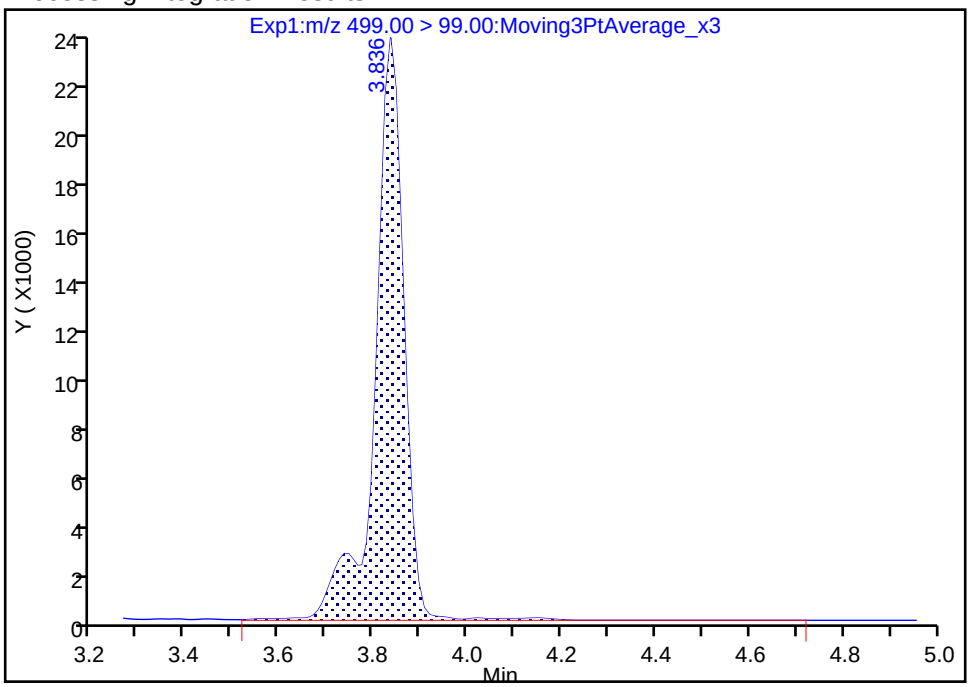
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Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

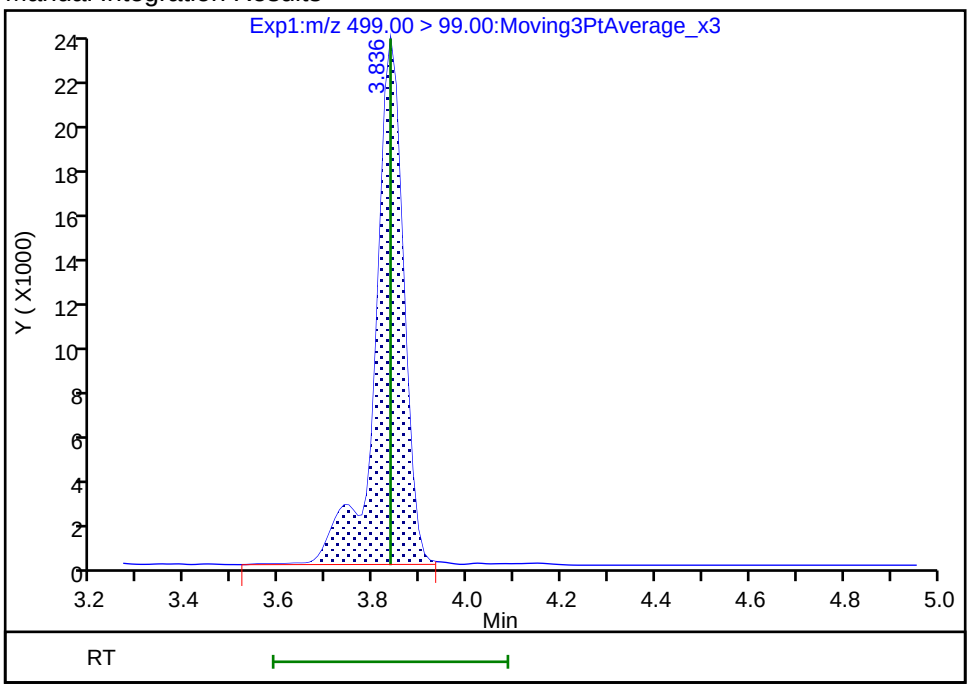
Processing Integration Results

RT: 3.84
Area: 101797
Amount: 0.909658
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 99823
Amount: 0.888686
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:06:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

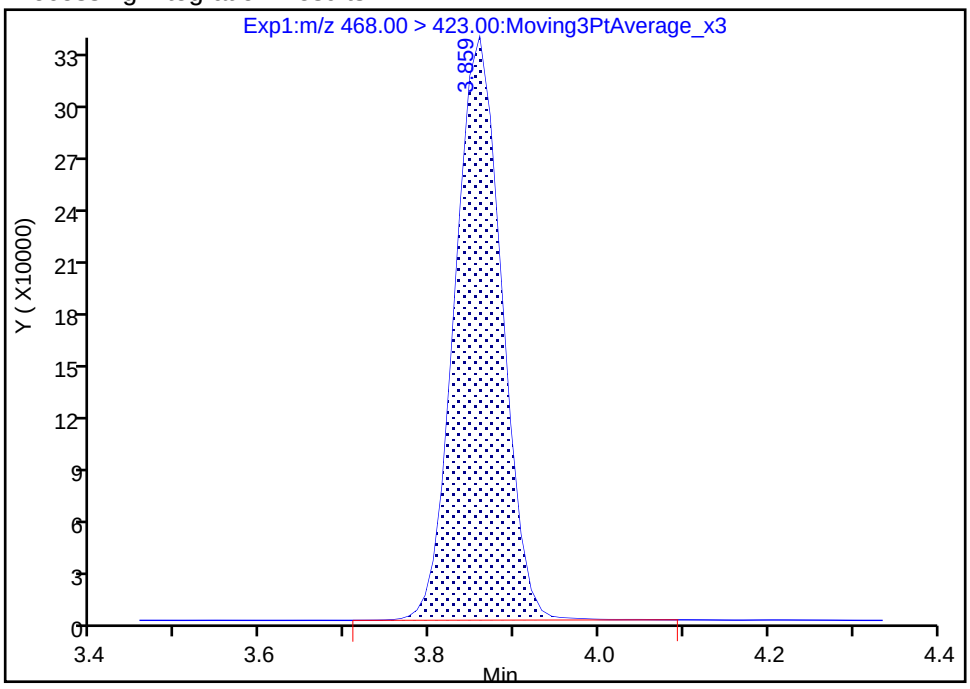
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

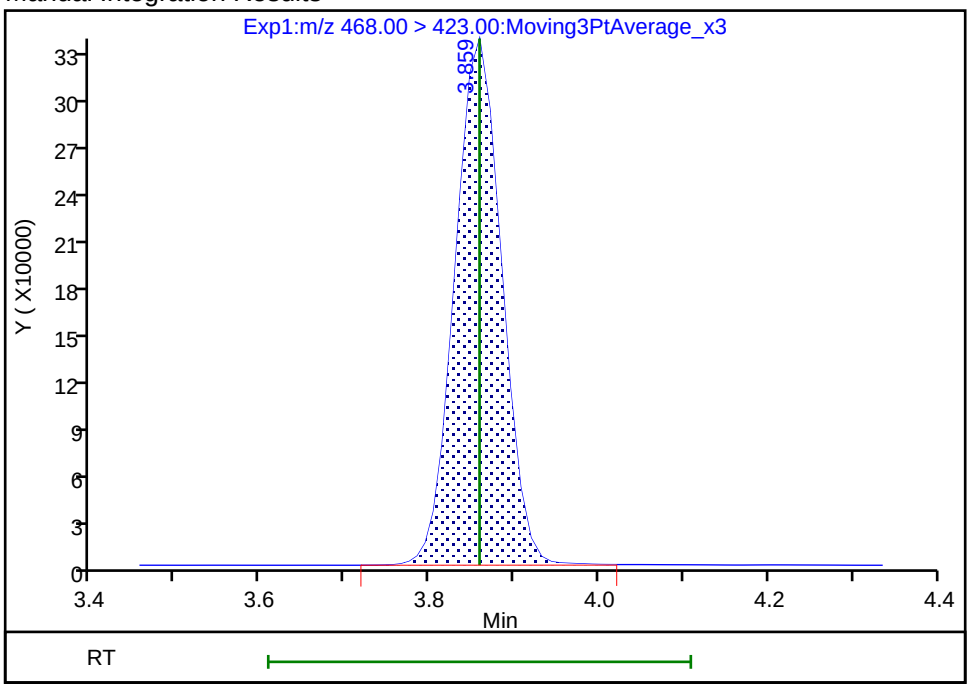
Processing Integration Results

RT: 3.86
Area: 1287230
Amount: 1.226315
Amount Units: ng/ml



Manual Integration Results

RT: 3.86
Area: 1288326
Amount: 1.227359
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:35:01

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

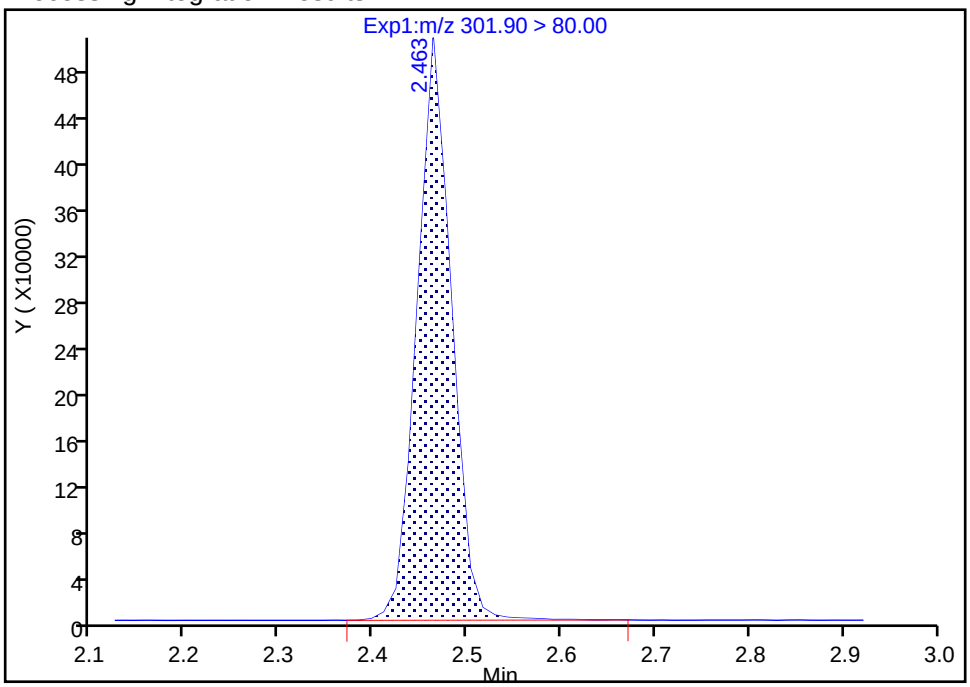
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

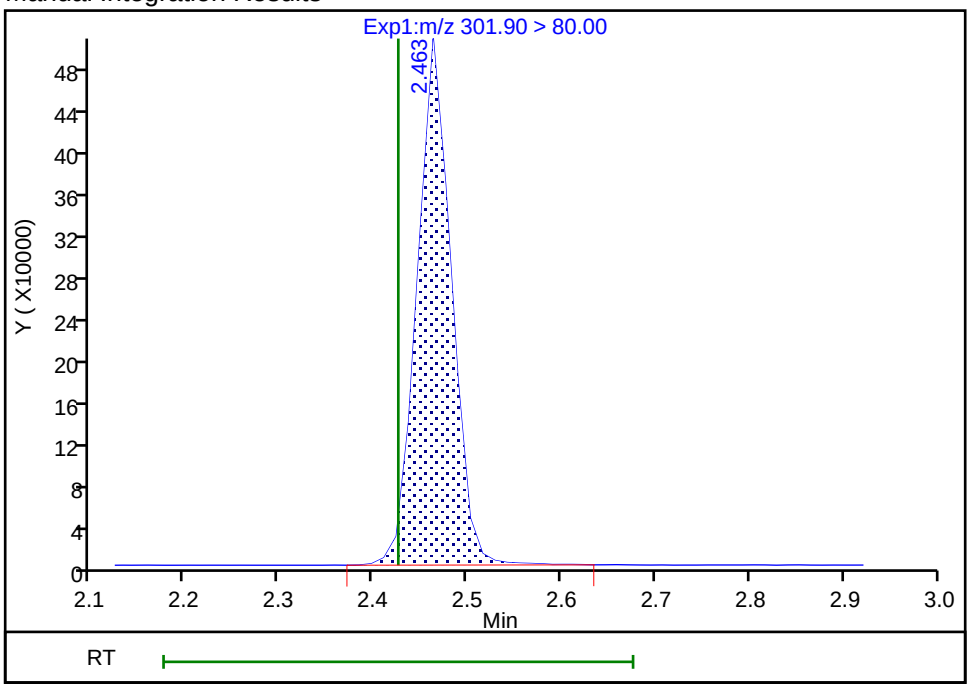
Processing Integration Results

RT: 2.46
Area: 1275692
Amount: 1.242271
Amount Units: ng/ml



Manual Integration Results

RT: 2.46
Area: 1275129
Amount: 1.241723
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:33:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

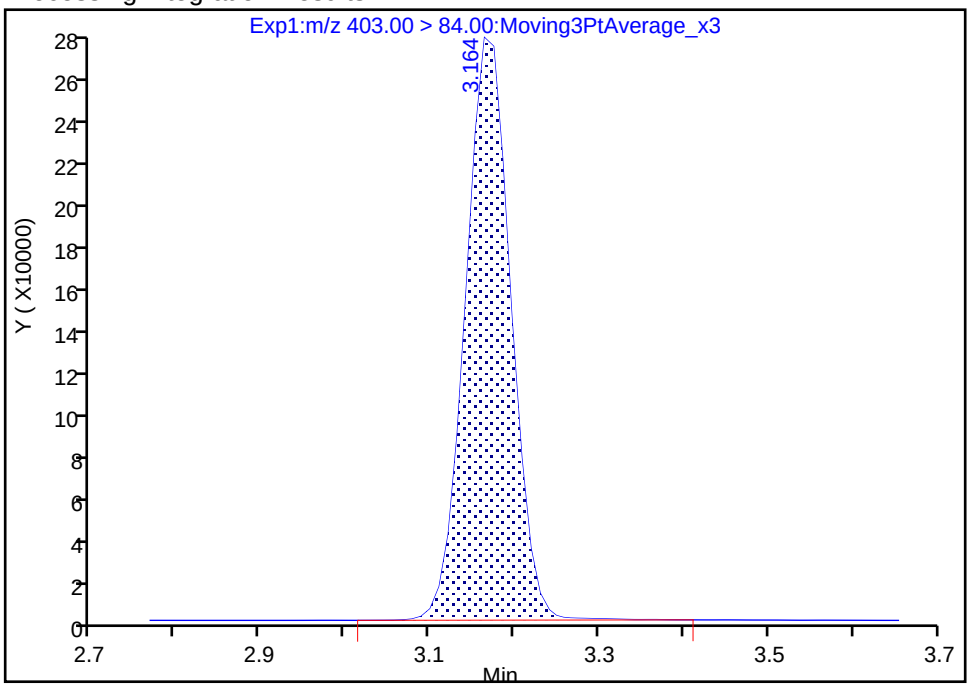
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

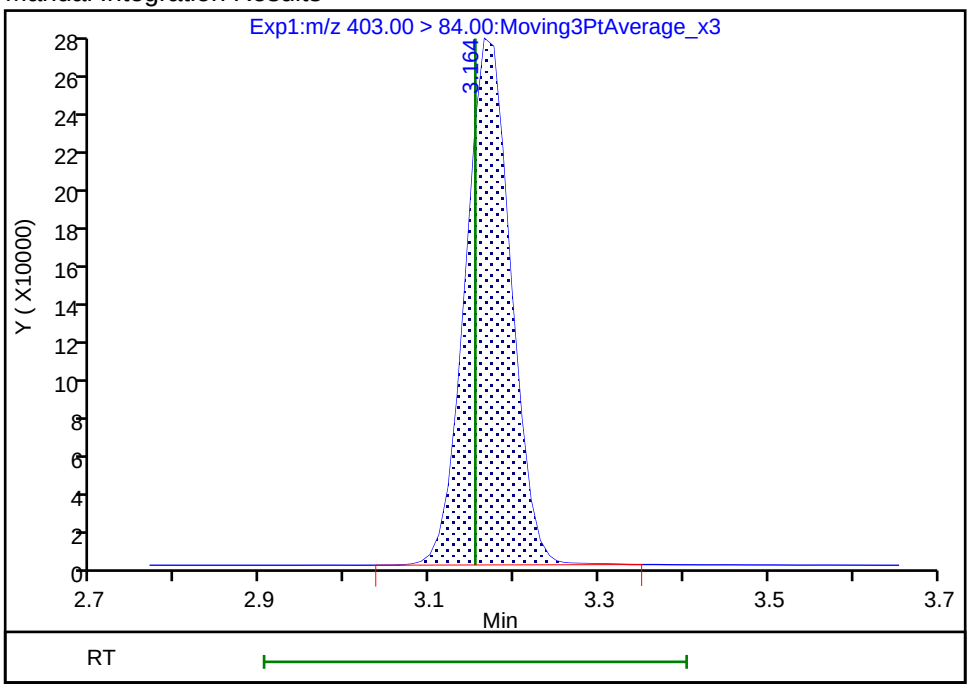
Processing Integration Results

RT: 3.16
Area: 1011945
Amount: 1.240453
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 1010248
Amount: 1.238372
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:34:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

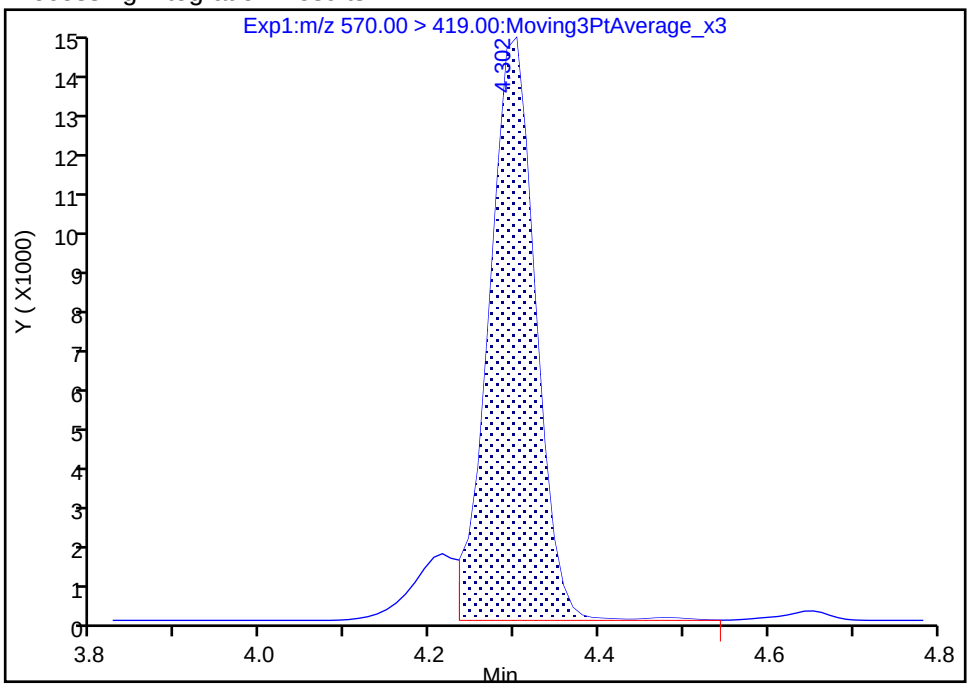
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

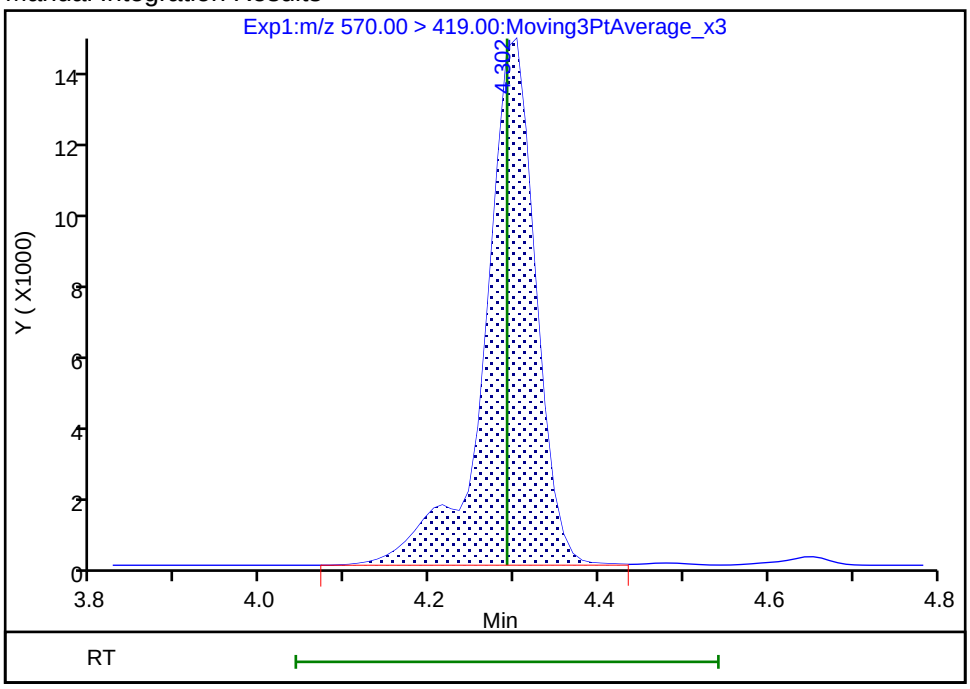
Processing Integration Results

RT: 4.30
Area: 56629
Amount: 1.046484
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 62572
Amount: 1.156309
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:42:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

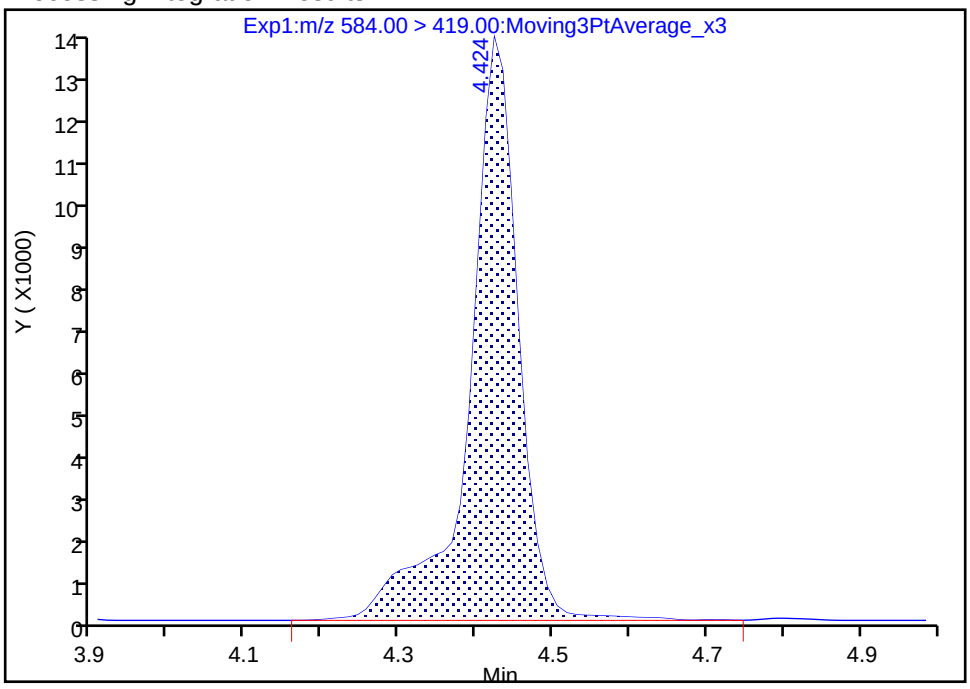
Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d
Injection Date: 11-Aug-2021 13:51:50 Instrument ID: LC812
Lims ID: LCS 200-170043/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

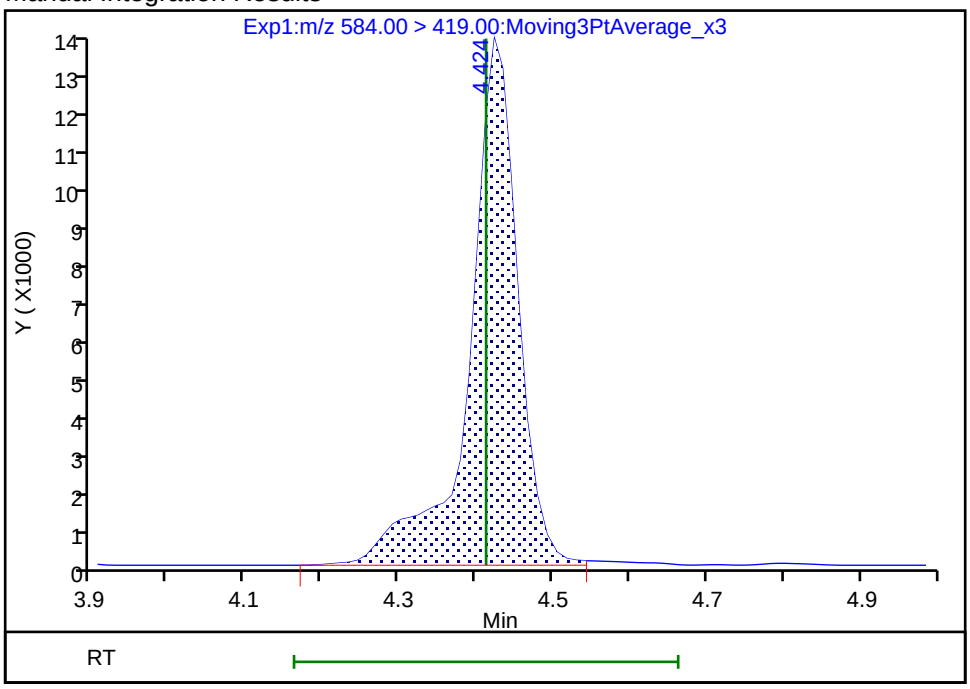
Processing Integration Results

RT: 4.42
Area: 61433
Amount: 1.016375
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 60819
Amount: 1.006216
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:43:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

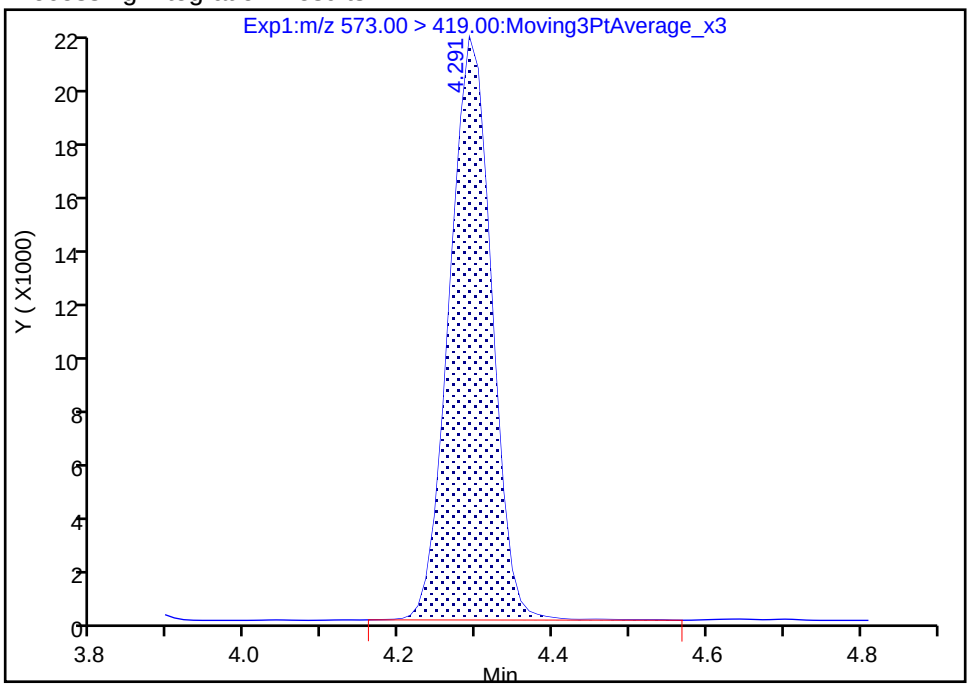
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

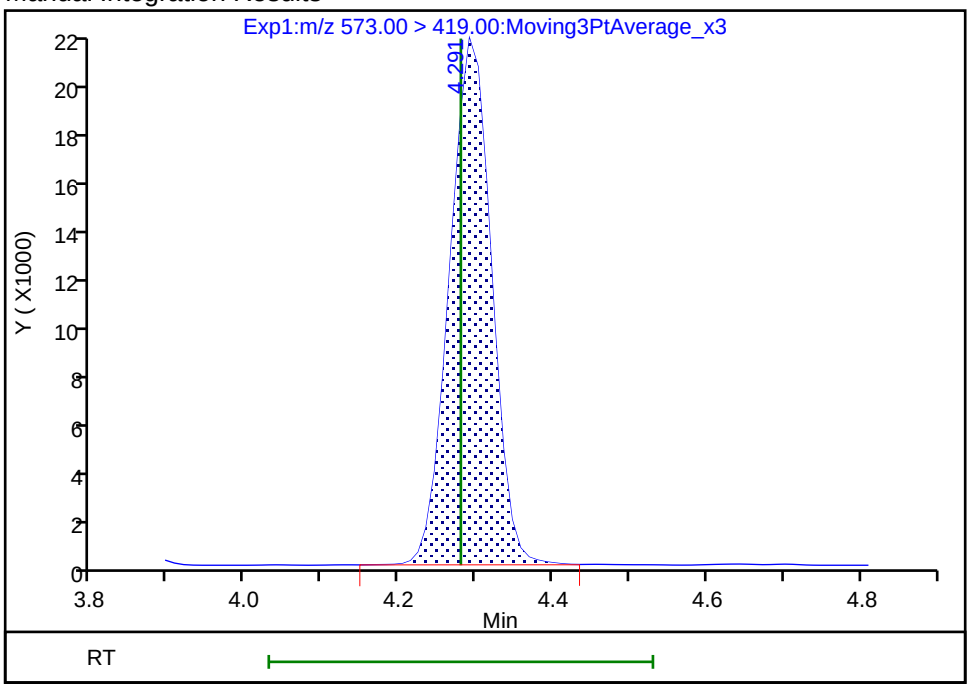
Processing Integration Results

RT: 4.29
Area: 81534
Amount: 1.164421
Amount Units: ng/ml



Manual Integration Results

RT: 4.29
Area: 81370
Amount: 1.162079
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:35:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

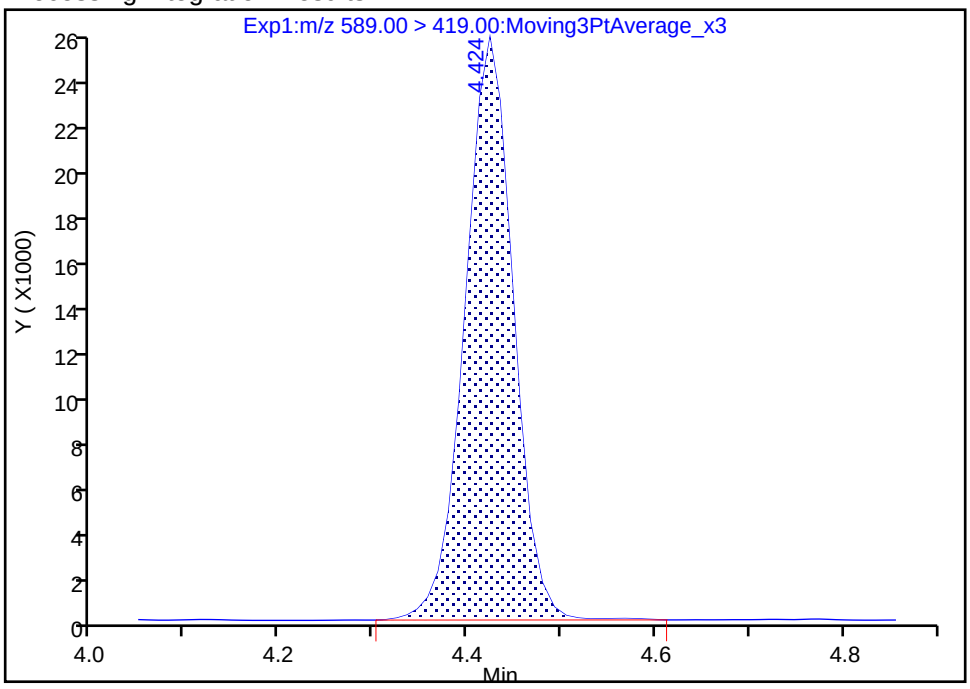
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

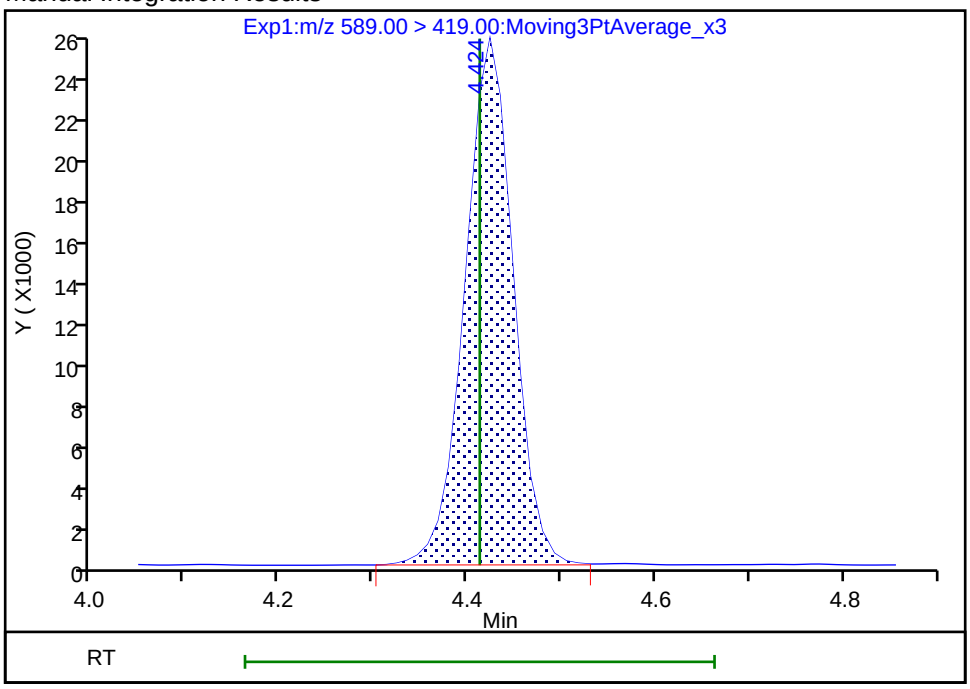
Processing Integration Results

RT: 4.42
Area: 89377
Amount: 1.226201
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 89182
Amount: 1.223525
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:35:26

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

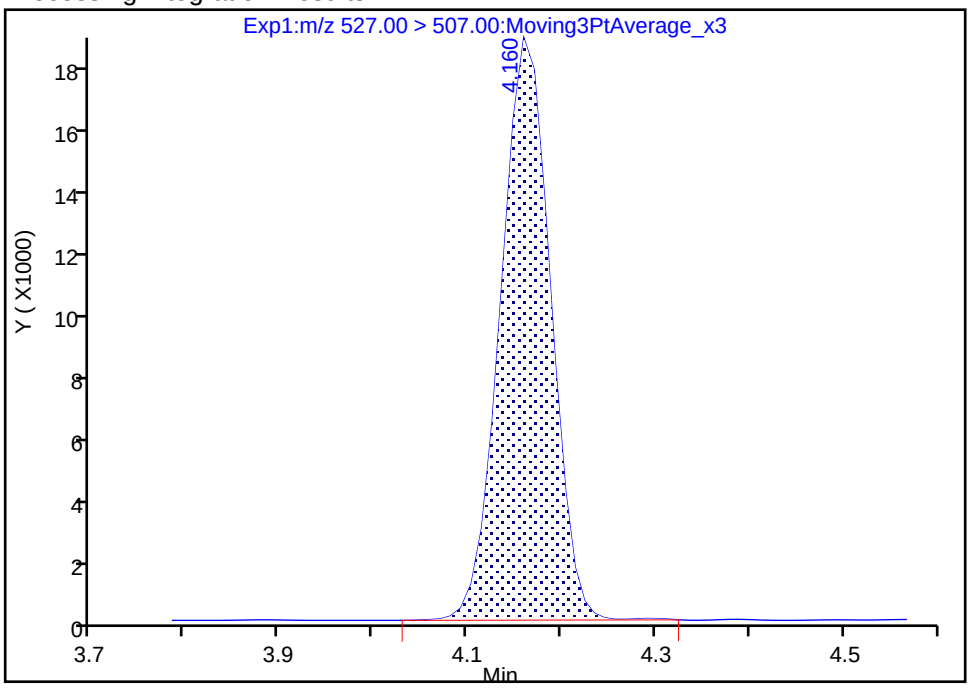
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

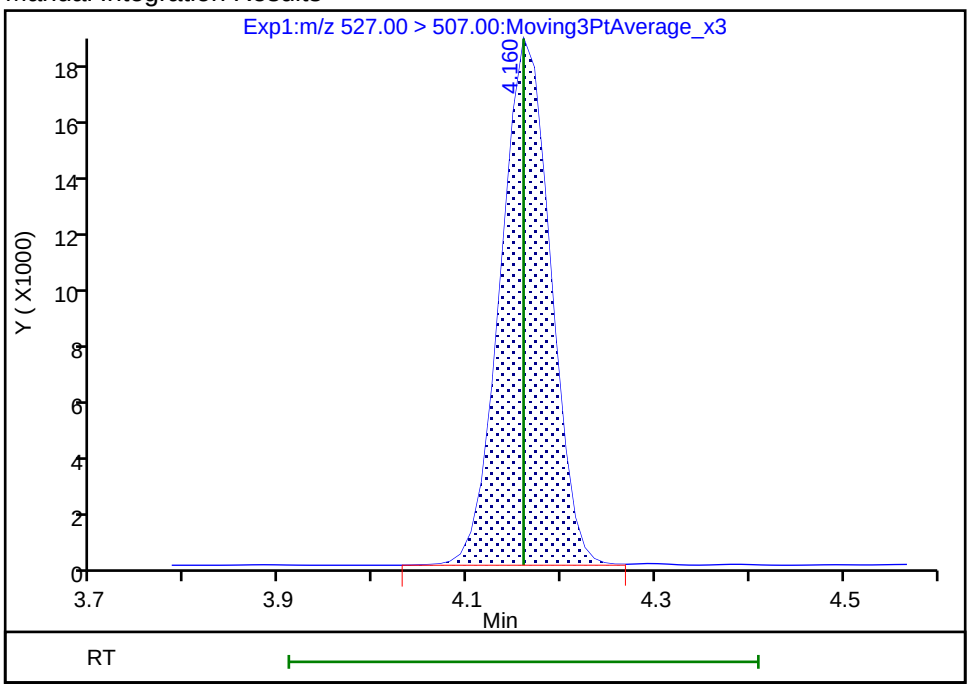
Processing Integration Results

RT: 4.16
Area: 67776
Amount: 1.008237
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 67760
Amount: 1.007999
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:42:12

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

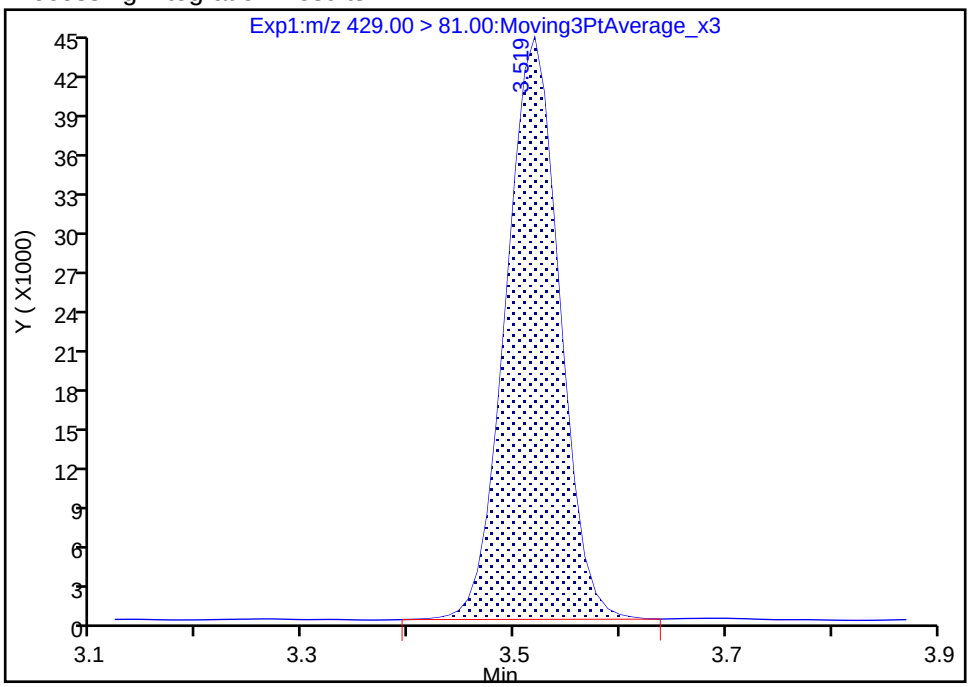
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A09.d				
Injection Date:	11-Aug-2021 13:51:50	Instrument ID:	LC812		
Lims ID:	LCS 200-170043/2-A				
Client ID:					
Operator ID:	lc812tech	ALS Bottle#:	6	Worklist Smp#:	9
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

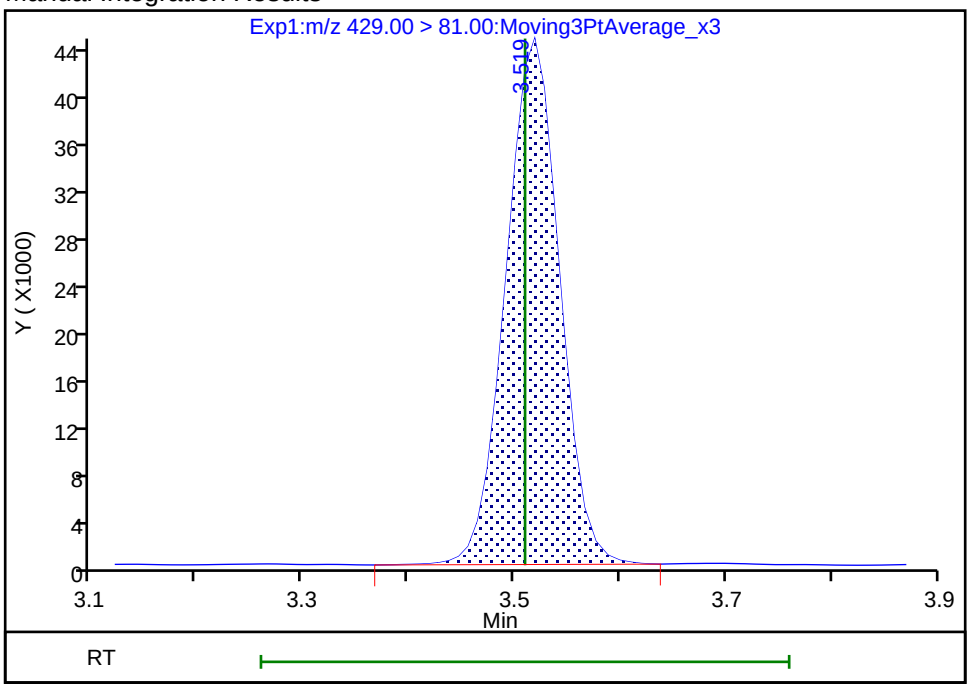
Processing Integration Results

RT: 3.52
Area: 155228
Amount: 1.371840
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 155468
Amount: 1.373961
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 08:34:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-1SH MS Lab Sample ID: 480-188016-6 MS

Matrix: Water Lab File ID: PA210811A11.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 09:13

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 262.1(mL) Date Analyzed: 08/11/2021 14:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	47.1		4.8	0.85
2706-90-3	Perfluoropentanoic acid (PFPeA)	52.8		1.9	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	51.5		1.9	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	40.7		1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	48.4		1.9	0.40
375-95-1	Perfluorononanoic acid (PFNA)	39.6		1.9	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	35.0		1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	39.0		1.9	0.33
307-55-1	Perfluorododecanoic acid (PFDoA)	37.2		1.9	0.37
72629-94-8	Perfluorotridecanoic acid (PFTriA)	36.2		1.9	0.41
376-06-7	Perfluorotetradecanoic acid (PFTeA)	38.9		1.9	0.60
375-73-5	Perfluorobutanesulfonic acid (PFBS)	36.9		1.9	0.24
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	35.4		1.9	0.29
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	36.4		1.9	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	30.2		1.9	0.29
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	47.9		1.9	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	37.3		1.9	0.55
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.7		4.8	0.86
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	35.9		4.8	0.71
27619-97-2	6:2 FTS	35.7		4.8	1.0
39108-34-4	8:2 FTS	37.2		1.9	0.37

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-1SH MS Lab Sample ID: 480-188016-6 MS

Matrix: Water Lab File ID: PA210811A11.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 09:13

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 262.1(mL) Date Analyzed: 08/11/2021 14:08

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	92		25-150
STL00992	13C4 PFBA	83		25-150
STL01893	13C5 PFPeA	97		25-150
STL00993	13C2 PFHxA	97		50-150
STL01892	13C4 PFHpA	98		50-150
STL00990	13C4 PFOA	100		50-150
STL00995	13C5 PFNA	97		50-150
STL00996	13C2 PFDA	98		50-150
STL00997	13C2 PFUnA	90		50-150
STL00998	13C2 PFDoA	83		50-150
STL02116	13C2 PFTeDA	83		50-150
STL02337	13C3 PFBS	98		50-150
STL00994	18O2 PFHxS	96		50-150
STL00991	13C4 PFOS	99		50-150
STL02118	d3-NMeFOSAA	84		50-150
STL02117	d5-NEtFOSAA	85		50-150
STL02279	M2-6:2 FTS	100		25-150
STL02280	M2-8:2 FTS	93		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d
Lims ID: 480-188016-B-6-B MS
Client ID: MW-86-1SH
Sample Type: MS
Inject. Date: 11-Aug-2021 14:08:23 ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-B-6-B MS
Misc. Info.: 200-0047128-011 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:31:39 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 09:41:15
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	2.106	2.082	0.024	0.597	1377927	1.03		82.6	9521	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.115	2.082	0.033	1.004	1310354	1.23		123	188	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.437	2.413	0.024	0.691	1227977	1.22		97.3	3039	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.450	2.413	0.037	1.005	1406680	1.38		138	94.9	
D 47 13C3 PFBS										M
301.90 > 80.00	2.463	2.426	0.037	0.698	1221366	1.14		98.2	159280	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.463	2.426	0.037	1.000	1097947	0.9675	Target=2.20	109	332	
298.90 > 99.00	2.463	2.426	0.037	1.000	495596		2.22(1.10-3.30)		290	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.768	2.734	0.034	1.000	150513	0.8936		95.7	1745	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.768	2.734	0.034	0.785	101983	1.15		98.8	45.8	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.805	2.782	0.023	0.795	1350042	1.21		97.1	4079	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.805	2.782	0.023	1.000	1465905	1.35	Target=12.93	135	230	M
313.00 > 119.00	2.805	2.782	0.023	1.000	125114		11.72(6.46-19.39)		304	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.817	2.782	0.035	0.890	969526	0.9635	Target=3.71	103	673	
349.00 > 99.00	2.805	2.782	0.023	0.886	274313		3.53(1.85-5.56)		306	M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.912	2.892	0.020	0.825	129863	1.08		86.4	1072	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.912	2.892	0.020	1.000	196215	1.14		114	60.3	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.164	3.154	0.010	0.897	968020	1.14		96.3	2464	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.175	3.154	0.021	1.003	877907	0.9269	Target=4.48	102	736	M
399.00 > 99.00	3.164	3.154	0.010	1.000	191054		4.60(2.24-6.72)		260	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.175	3.154	0.021	1.000	1205060	1.07	Target=3.68	107	275	M
363.00 > 169.00	3.175	3.154	0.021	1.000	340838		3.54(1.84-5.53)		916	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1365579	1.22		97.9	2807	
77 DONA										M
377.00 > 251.00	3.209	3.196	0.013	0.836	2085842	0.9669	Target=2.47	103	3359	M
377.00 > 85.00	3.209	3.196	0.013	0.836	824238		2.53(1.24-3.71)		1235	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.519	3.510	0.009	0.917	728151	0.9547	Target=6.56	100	1471	
449.00 > 99.00	3.519	3.510	0.009	0.917	109239		6.67(3.28-9.84)		417	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.519	3.510	0.009	0.997	139607	1.18		99.7	335	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.519	3.510	0.009	1.000	113902	0.9348		98.6	1063	M
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1434314	1.25		99.6	3780	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1457865	1.25			4586	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	1531004	1.27	Target=2.67	127	530	
413.00 > 169.00	3.528	3.519	0.009	1.000	602005		2.54(1.33-4.00)		1316	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.836	3.836	0.0	1.087	731895	1.18		98.7	2567	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	862065	1.26	Target=6.69	135	621	M
499.00 > 99.00	3.836	3.836	0.0	1.000	123205		7.00(3.34-10.03)		382	M
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.094	1329511	1.22		97.2	4257	
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	1068106	1.04	Target=7.21	104	354	
463.00 > 169.00	3.859	3.858	0.001	1.000	155623		6.86(3.60-10.81)		1319	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.993	3.992	0.0	1.041	623206	0.8303		89.1	3912	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.126	4.115	0.011	1.076	423537	0.8333	Target=3.20	86.8	2444	M
549.00 > 99.00	4.126	4.115	0.011	1.076	130011		3.26(1.60-4.80)		463	
D 23 13C2 PFDA										M
515.00 > 470.00	4.149	4.148	0.001	1.176	1212974	1.22		97.8	3864	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	4.149	4.148	0.001	1.000	947291	0.9171	Target=8.42	91.7	826	
513.00 > 169.00	4.149	4.148	0.001	1.000	114896		8.24(4.21-12.63)		753	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.160	0.0	1.000	63748	0.9759		102	1390	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.179	156994	1.12		93.4	576	
D 21 13C8 FOSA										M
506.00 > 78.00	4.235	4.224	0.011	1.200	1252282	1.14		91.6	2351	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.235	4.224	0.011	1.000	958853	0.9785		97.9	2479	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.291	4.280	0.011	1.216	76191	1.04		83.5	242	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.302	4.291	0.011	1.003	54078	1.07		107	281	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.391	4.369	0.022	1.145	307073	0.7916	Target=2.66	82.1	2253	
599.00 > 99.00	4.391	4.369	0.022	1.145	110814		2.77(1.33-3.99)		796	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.251	884259	1.12		89.9	3399	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.413	4.402	0.011	1.000	700417	1.02	Target=7.70	102	885	
563.00 > 169.00	4.413	4.402	0.011	1.000	82426		8.50(3.85-11.56)		768	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.413	0.011	1.254	80334	1.06		84.6	843	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.435	4.413	0.022	1.002	51163	0.9397		94.0	450	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.505	4.492	0.013	1.174	493008	0.7954		84.4	2306	
D 36 13C2 PFDoA										
615.00 > 570.00	4.642	4.632	0.010	1.316	840768	1.03		82.7	3019	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.642	4.632	0.010	1.000	662081	0.9751	Target=6.31	97.5	256	
613.00 > 169.00	4.642	4.632	0.010	1.000	102776		6.44(3.15-9.46)		1222	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.662	4.653	0.009	1.121	28079	0.8493		88.1	833	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.822	4.810	0.012	1.257	97082	0.7356	Target=0.45	76.0	1546	
699.00 > 99.00	4.822	4.810	0.012	1.257	215414		0.45(0.23-0.68)		2008	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.855	4.845	0.010	1.046	555594	0.9493	Target=4.61	94.9	256	
663.00 > 169.00	4.855	4.845	0.010	1.046	125912		4.41(2.31-6.92)		1472	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.043	5.034	0.009	1.429	659350	1.03		82.7	3524	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.043	5.034	0.009	1.000	92326	1.02	Target=1.00	102	1552	
713.00 > 219.00	5.043	5.034	0.009	1.000	86207		1.07(0.50-1.51)		1407	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.394	5.383	0.011	1.529	718220	1.11		88.5	2883	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.394	5.383	0.011	1.000	541319	1.00	Target=4.32	99.8	376	
813.00 > 169.00	5.394	5.383	0.011	1.000	134941		4.01(2.16-6.48)		1501	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.710	0.010	1.060	480290	0.9874	Target=3.72	98.7	376	
913.00 > 169.00	5.720	5.710	0.010	1.060	128130		3.75(1.86-5.58)		1032	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:32:05 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d

Injection Date: 11-Aug-2021 14:08:23 Instrument ID: LC812

Lims ID: 480-188016-B-6-B MS

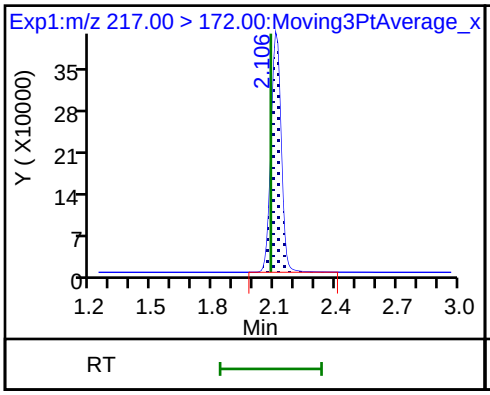
Client ID: MW-86-1SH

Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11

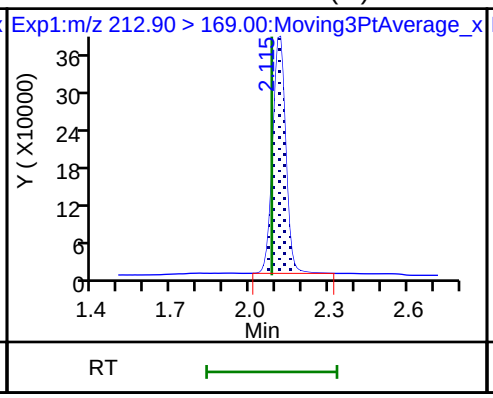
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

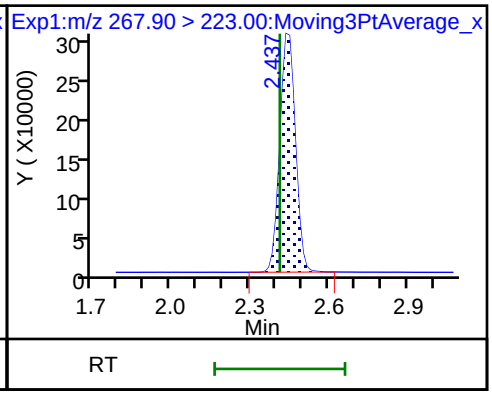
D 1 13C4 PFBA



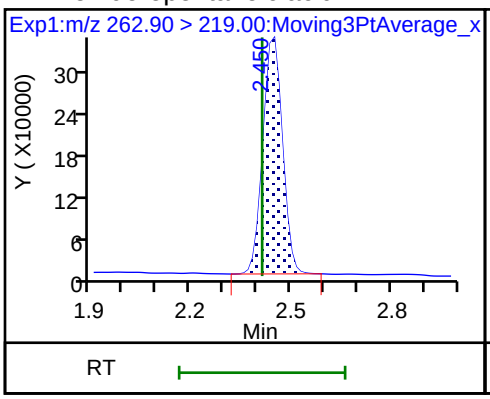
2 Perfluorobutanoic acid (M)



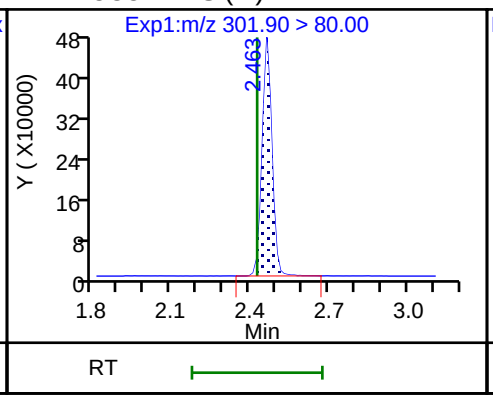
D 3 13C5 PFPeA



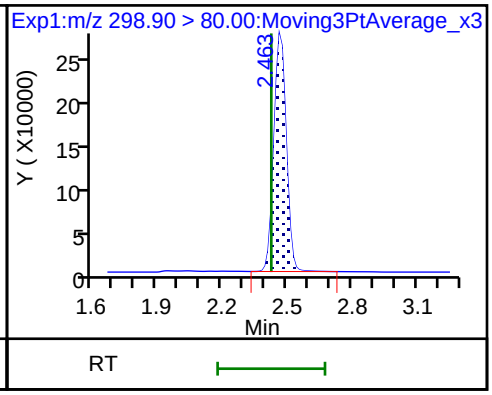
4 Perfluoropentanoic acid



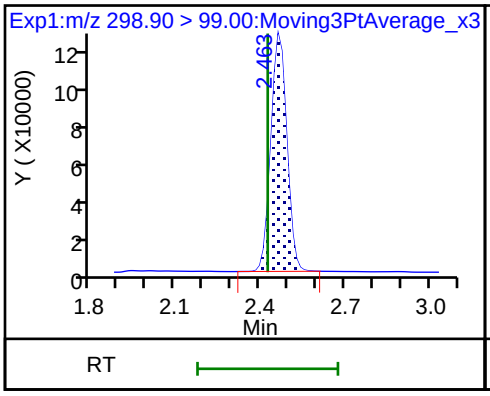
D 47 13C3 PFBS (M)



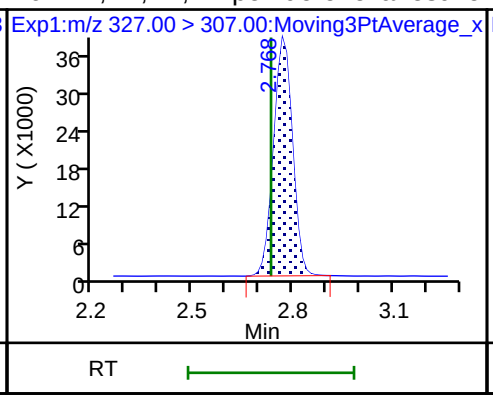
5 Perfluorobutanesulfonic acid



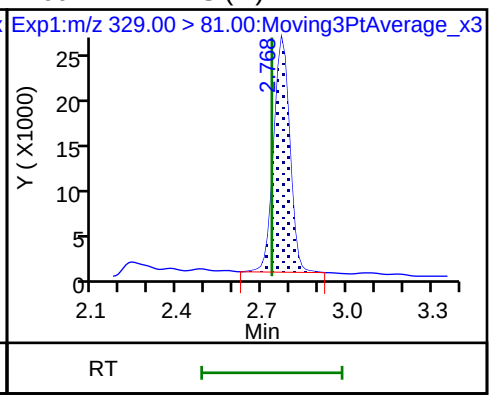
5 Perfluorobutanesulfonic acid



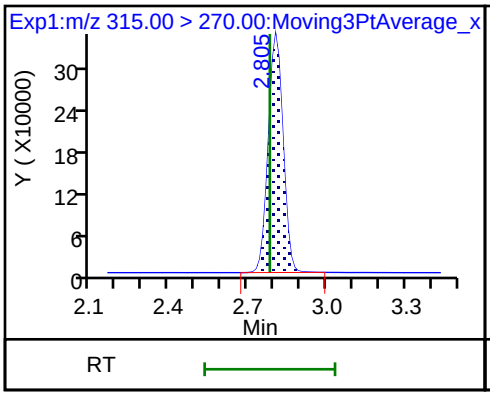
61 1H,1H,2H,2H-perfluorohexanesulfo



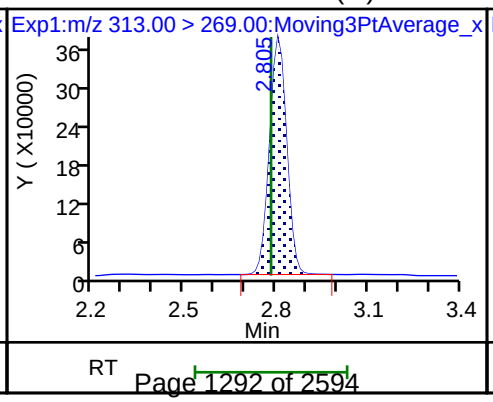
D 60 M2-4:2 FTS (M)



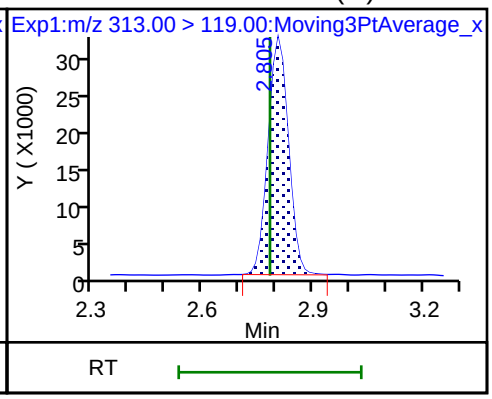
D 7 13C2 PFHxA



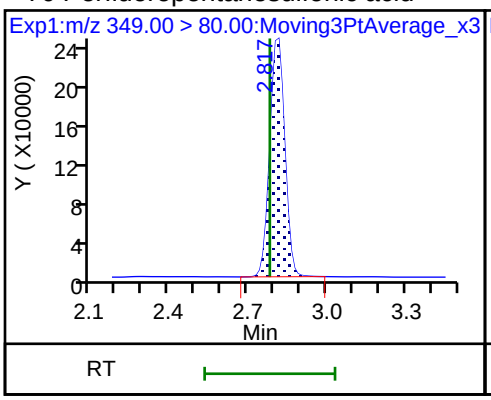
6 Perfluorohexanoic acid (M)



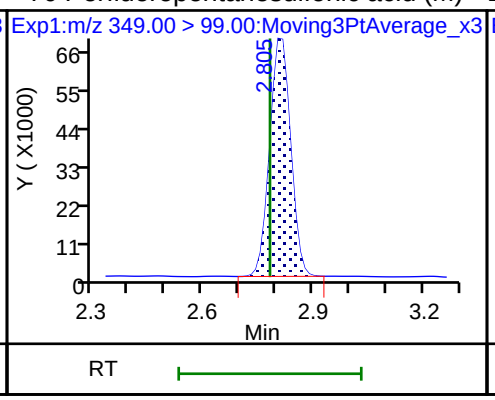
6 Perfluorohexanoic acid (M)



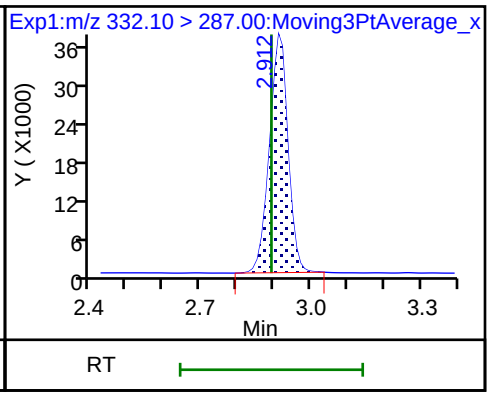
70 Perfluoropentanesulfonic acid



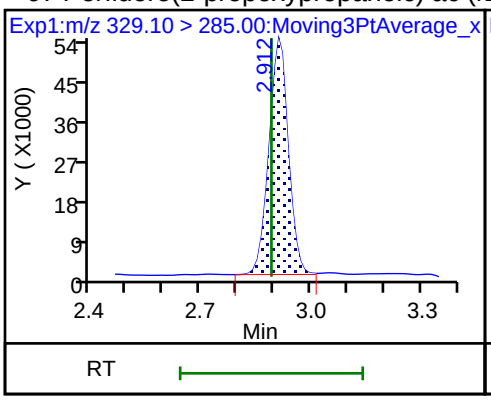
70 Perfluoropentanesulfonic acid (M)



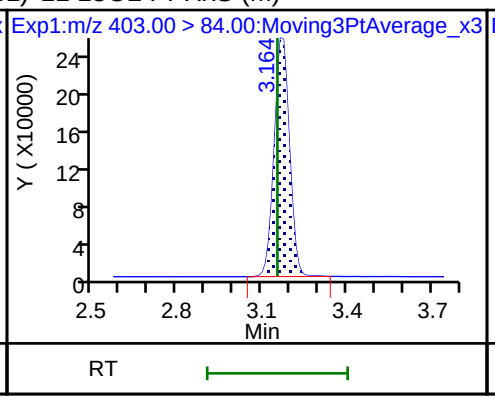
D 64 13C3 HFPO-DA



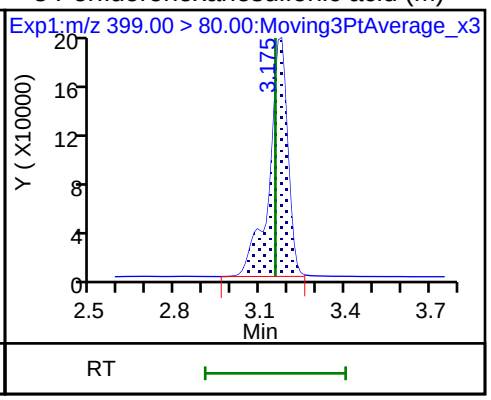
67 Perfluoro(2-propoxypropanoic) ac (M)



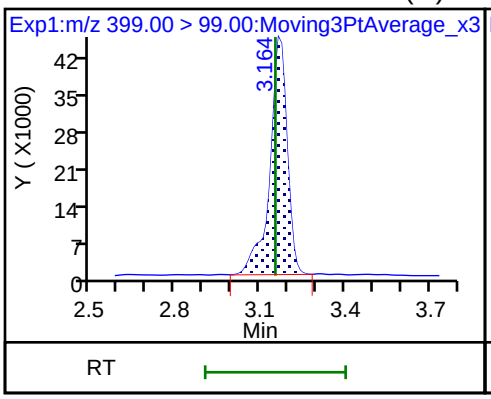
D 11 18O2 PFHxS (M)



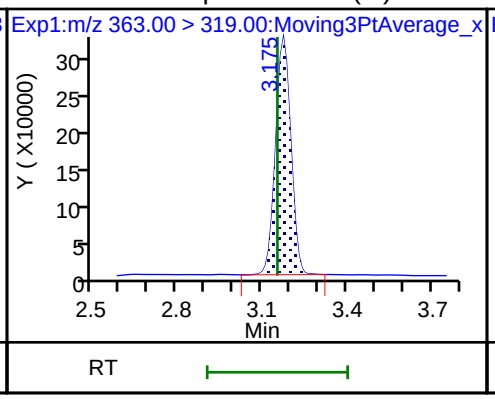
8 Perfluorohexanesulfonic acid (M)



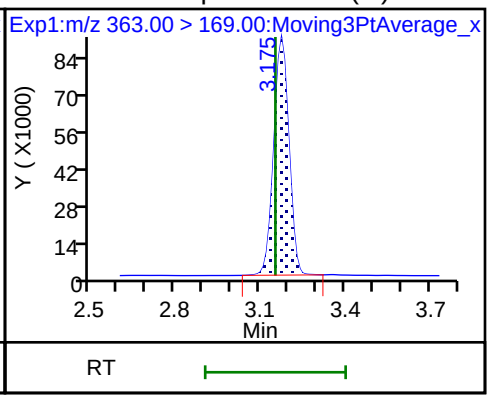
8 Perfluorohexanesulfonic acid (M)



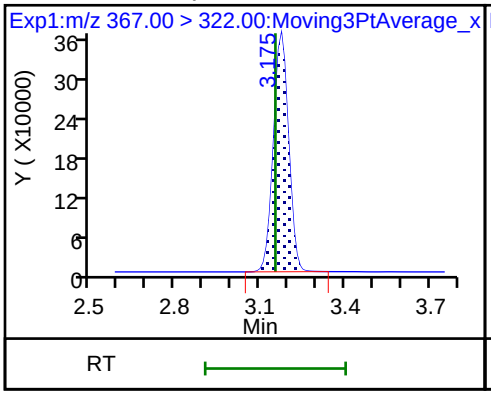
10 Perfluoroheptanoic acid (M)



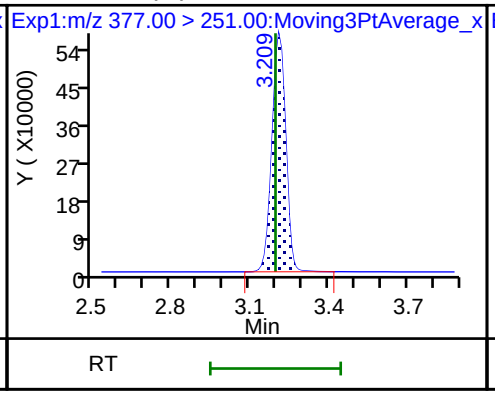
10 Perfluoroheptanoic acid (M)



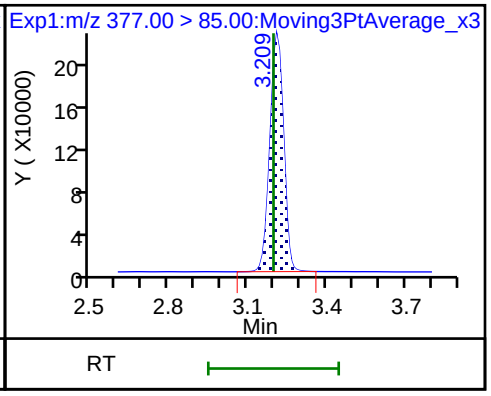
D 9 13C4 PFHpA



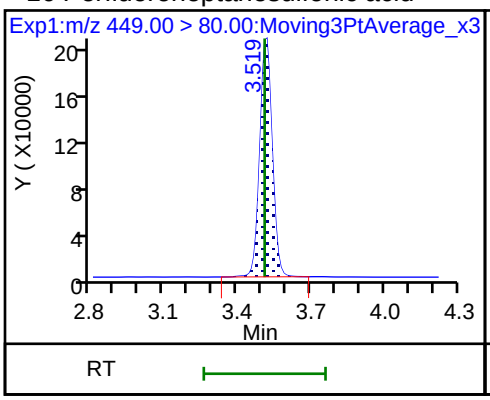
77 DONA (M)



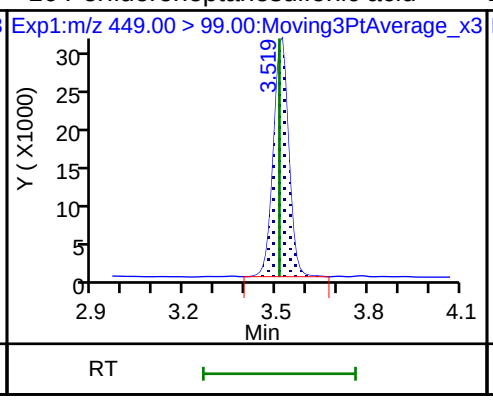
77 DONA



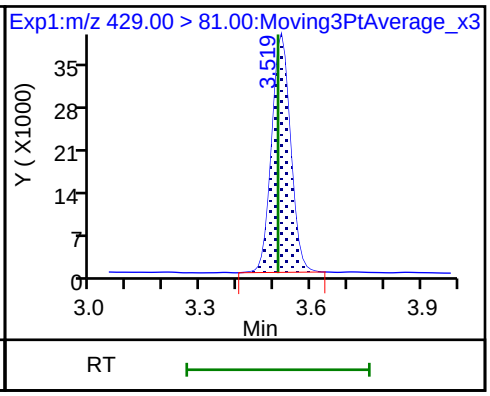
16 Perfluoroheptanesulfonic acid



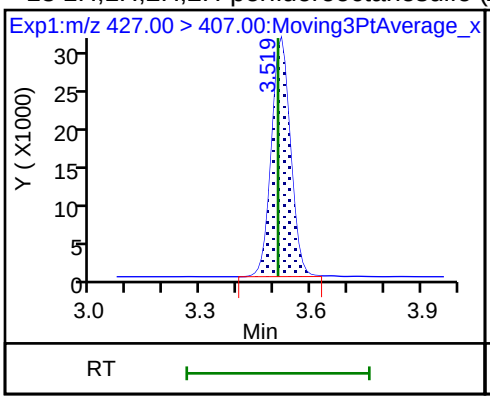
16 Perfluoroheptanesulfonic acid



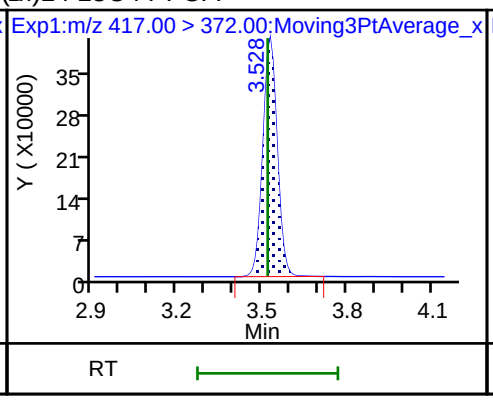
D 12 M2-6:2 FTS



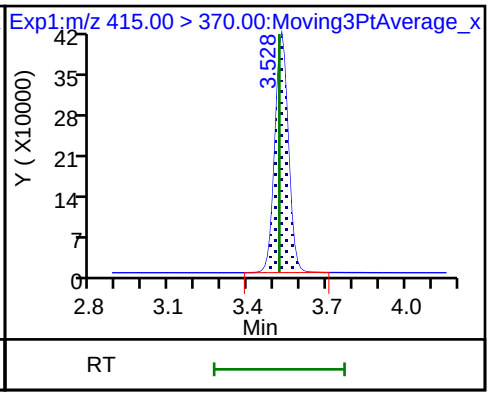
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



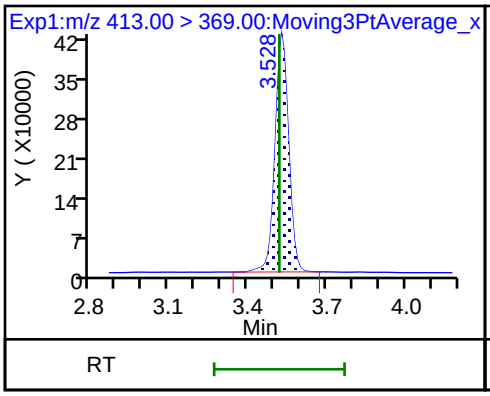
D 14 13C4 PFOA



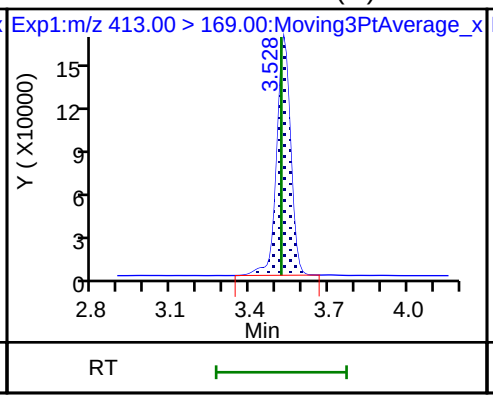
* 62 13C2 PFOA



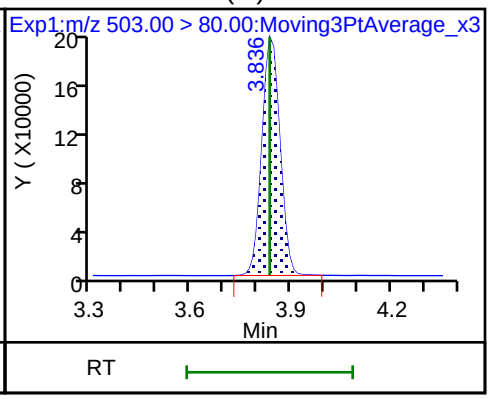
15 Perfluorooctanoic acid



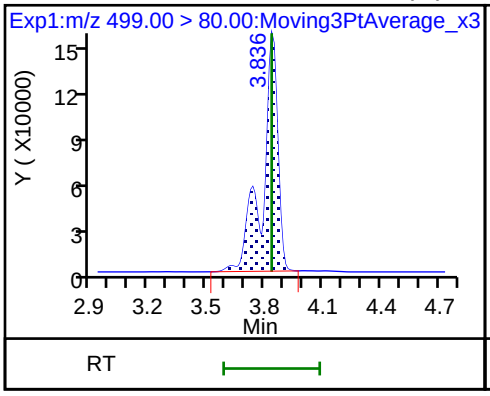
15 Perfluorooctanoic acid (M)



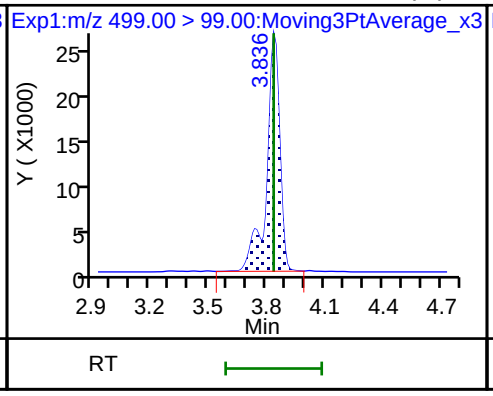
D 18 13C4 PFOS (M)



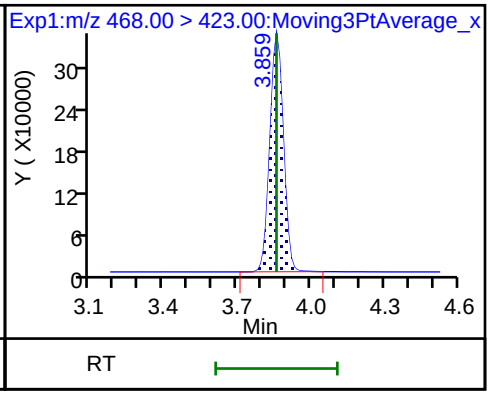
17 Perfluorooctanesulfonic acid (M)



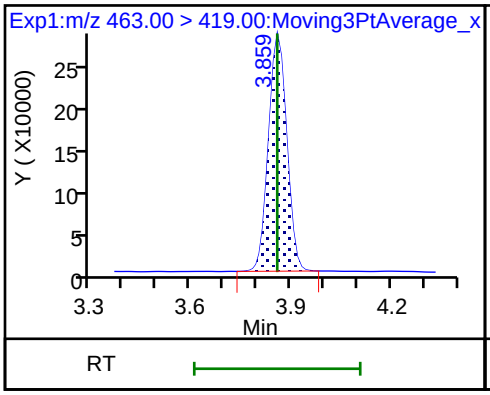
17 Perfluorooctanesulfonic acid (M)



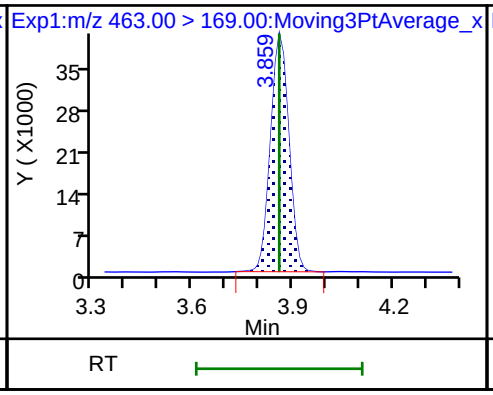
D 19 13C5 PFNA



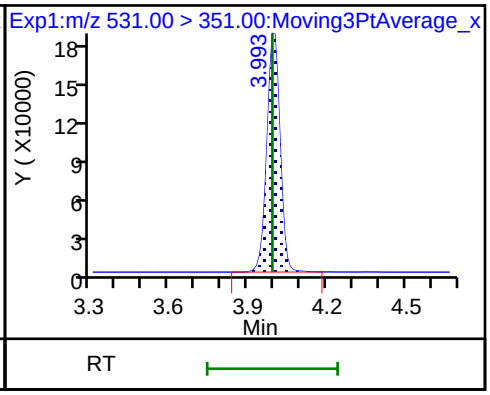
20 Perfluorononanoic acid



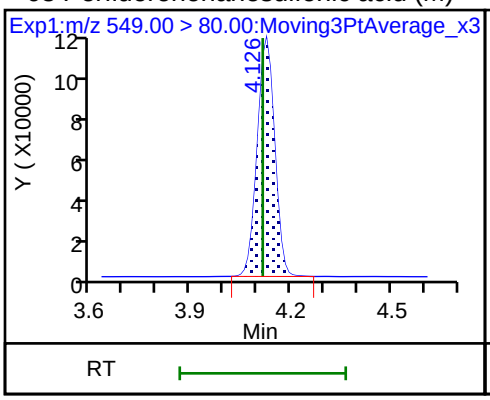
20 Perfluorononanoic acid



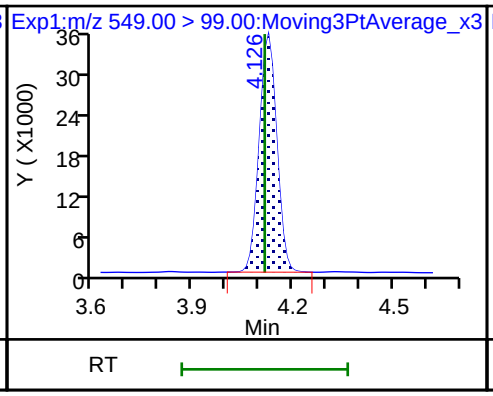
69 9-Chlorohexadecafluoro-3-oxanona



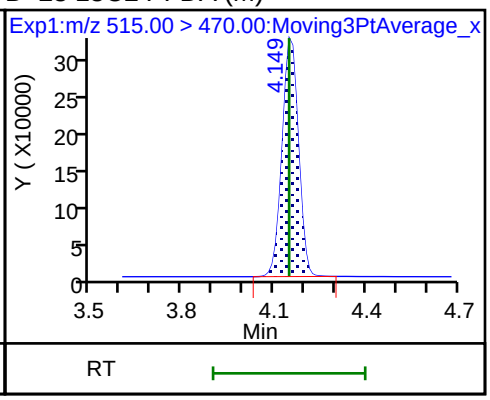
68 Perfluorononanesulfonic acid (M)



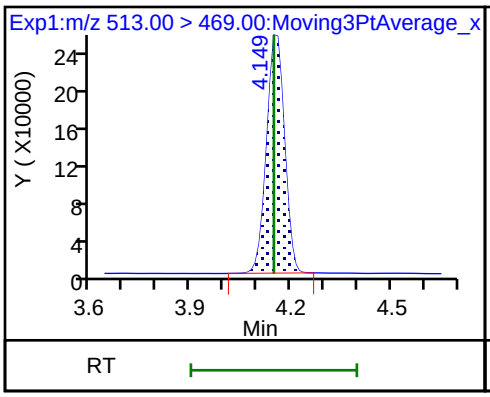
68 Perfluorononanesulfonic acid



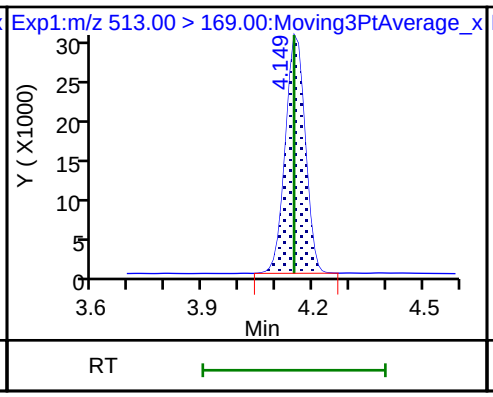
D 23 13C2 PFDA (M)



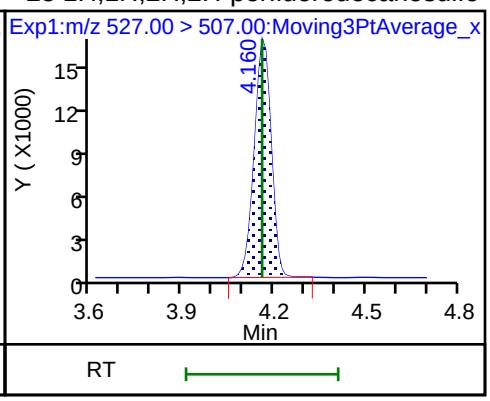
24 Perfluorodecanoic acid



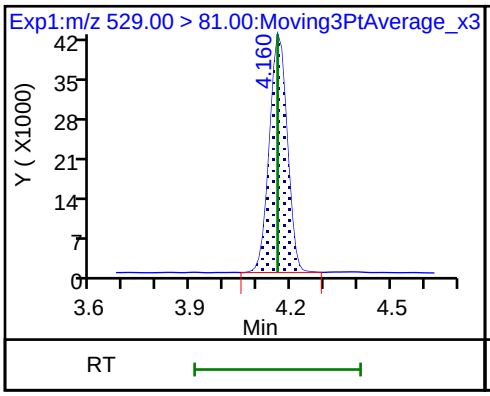
24 Perfluorodecanoic acid



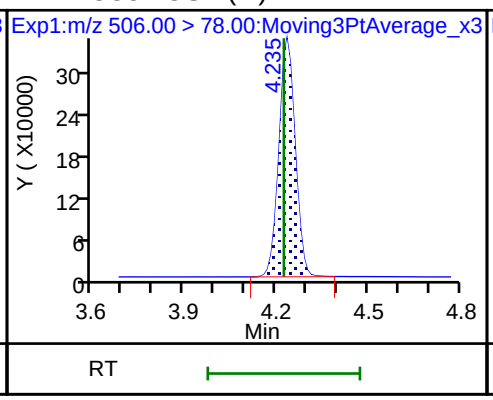
25 1H,1H,2H,2H-perfluorodecanesulfo



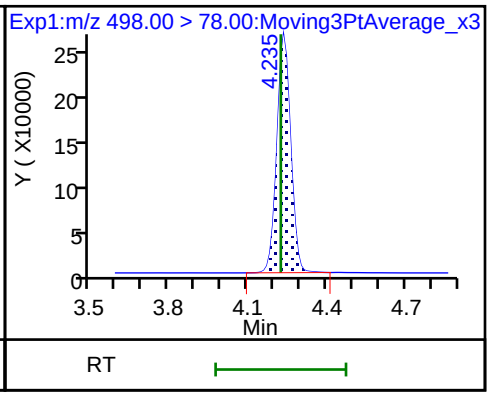
D 26 M2-8:2 FTS



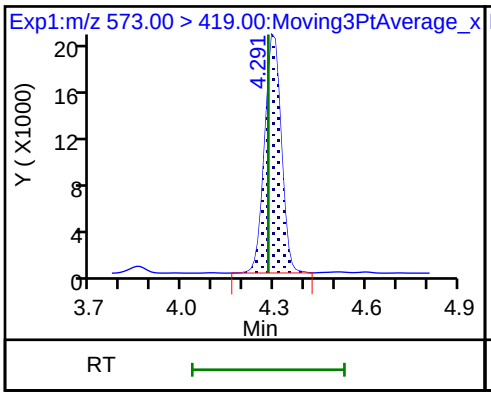
D 21 13C8 FOSA (M)



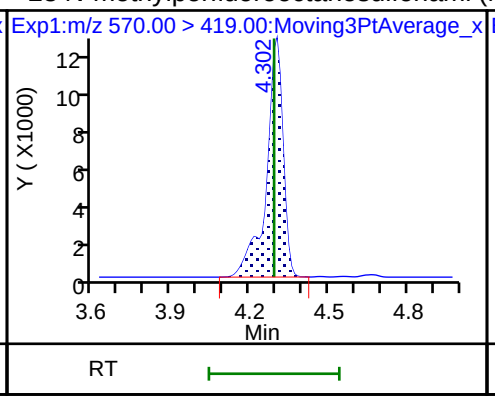
22 Perfluorooctanesulfonamide



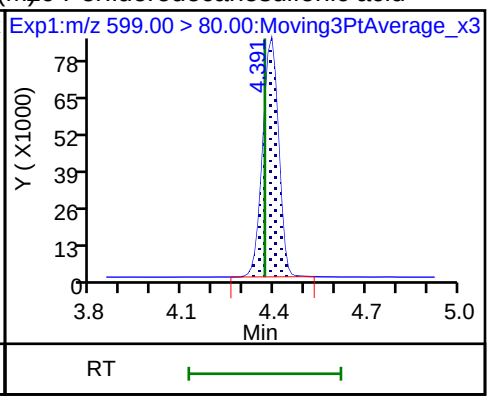
D 27 d3-NMeFOSAA



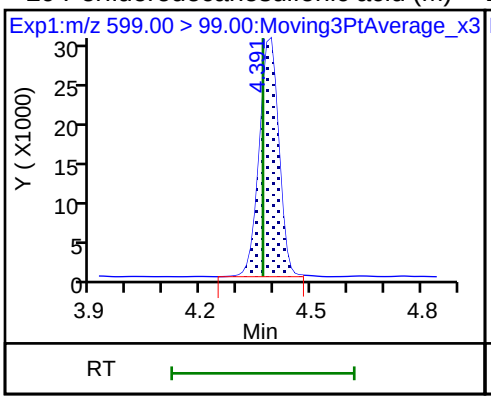
28 N-methylperfluorooctanesulfonami (M)



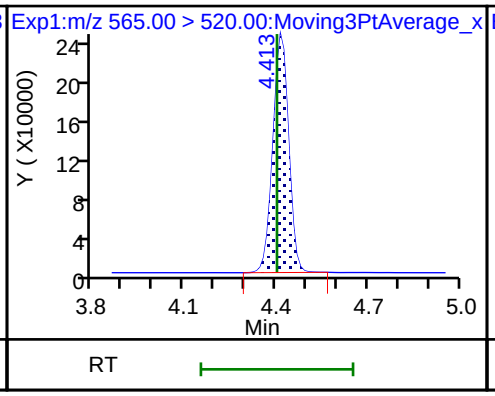
29 Perfluorodecanesulfonic acid



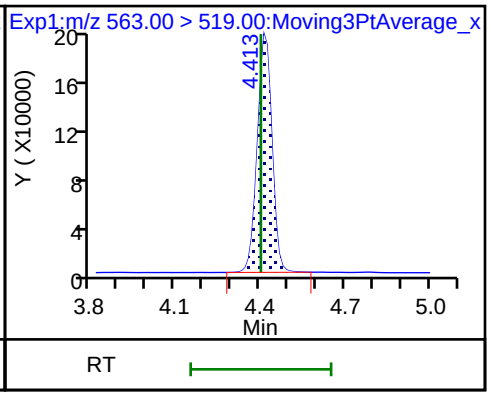
29 Perfluorodecanesulfonic acid (M)



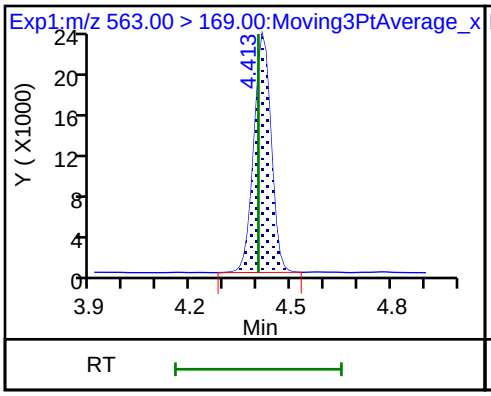
D 30 13C2 PFUnA



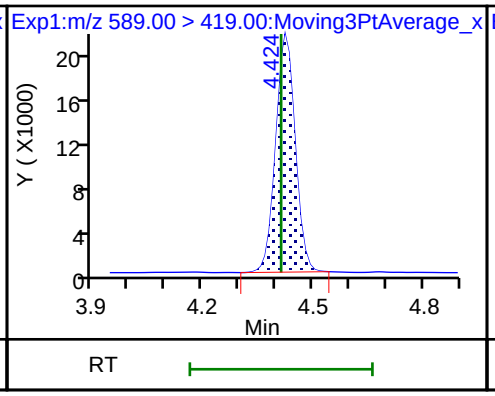
31 Perfluoroundecanoic acid



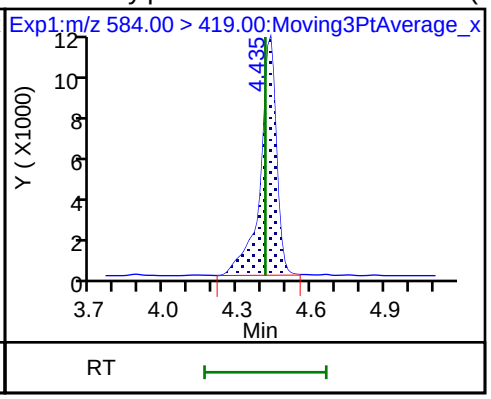
31 Perfluoroundecanoic acid



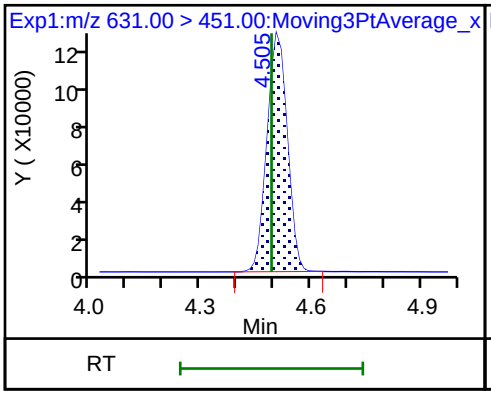
D 32 d5-NEtFOSAA



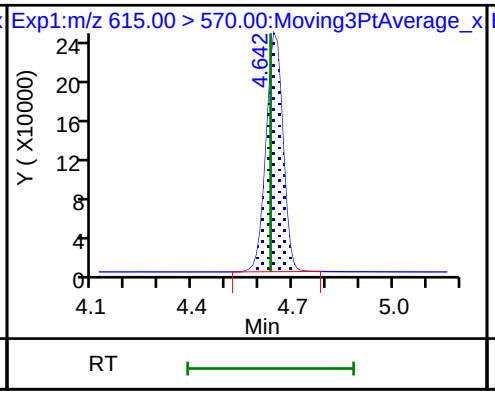
33 N-ethylperfluorooctanesulfonamid (M)



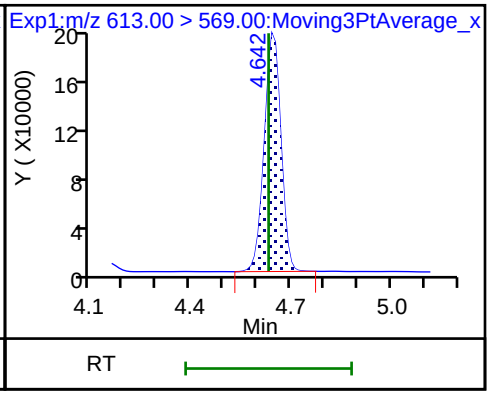
66 11-Chloroeicosafluoro-3-oxaundec



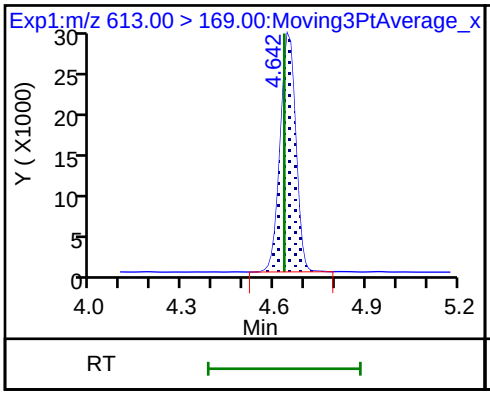
D 36 13C2 PFDoA



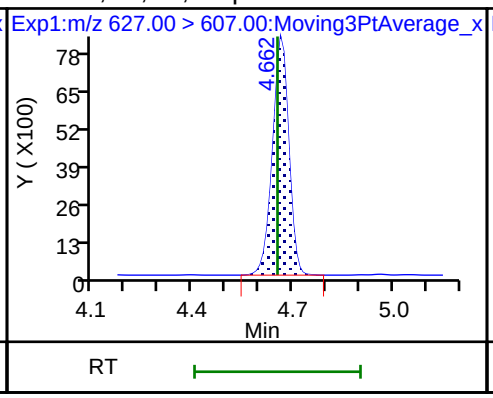
37 Perfluorododecanoic acid



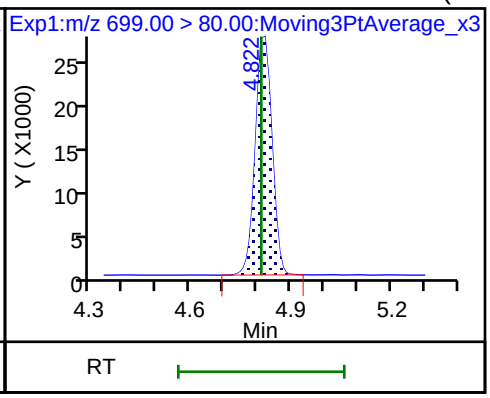
37 Perfluorododecanoic acid



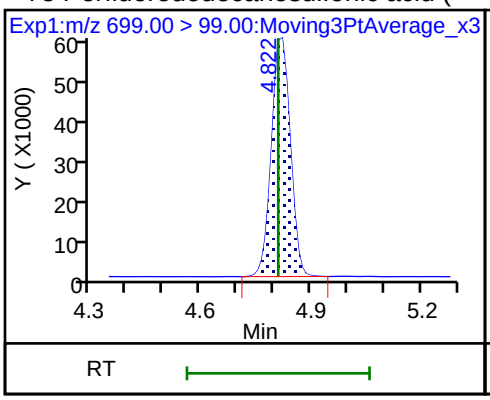
74 1H,1H,2H,2H-perfluorododecanesul



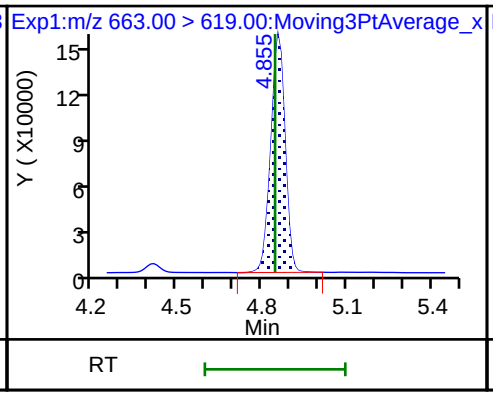
75 Perfluorododecanesulfonic acid (



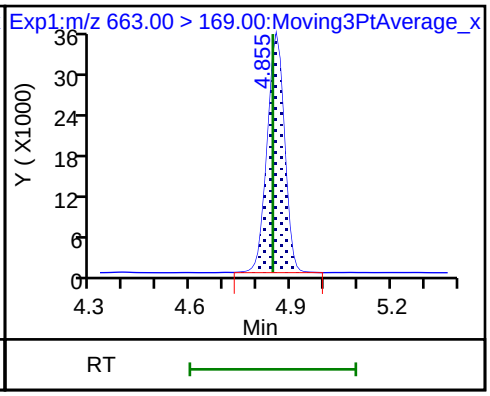
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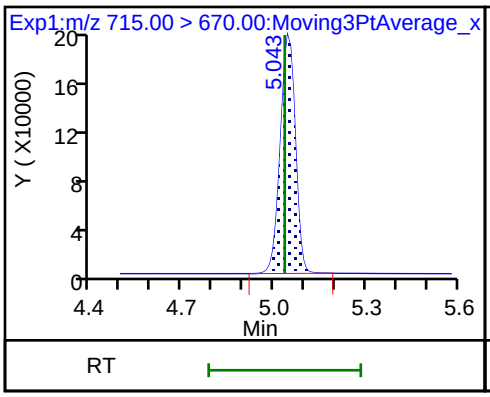
41 Perfluorotridecanoic acid



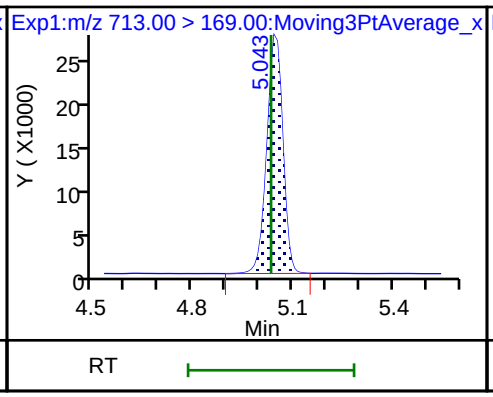
41 Perfluorotridecanoic acid



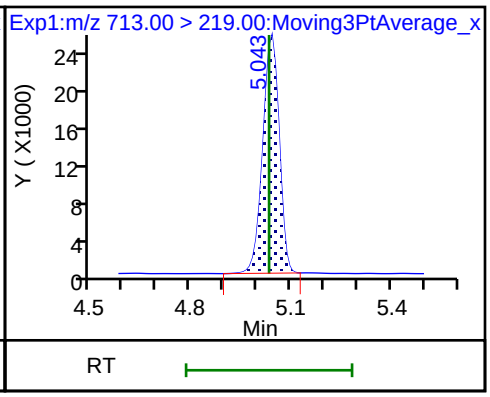
D 43 13C2 PFTeDA



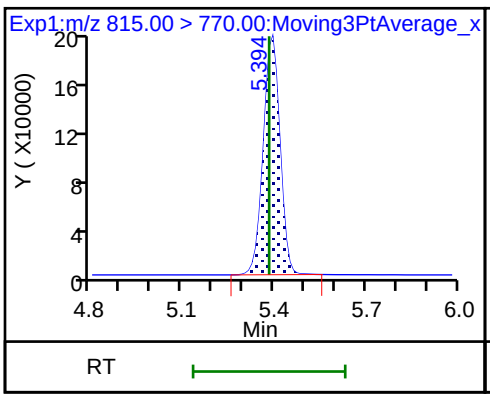
42 Perfluorotetradecanoic acid



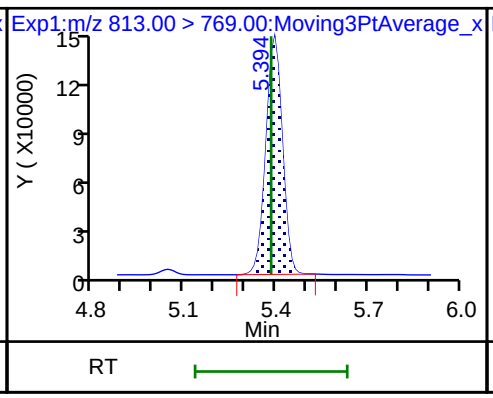
42 Perfluorotetradecanoic acid



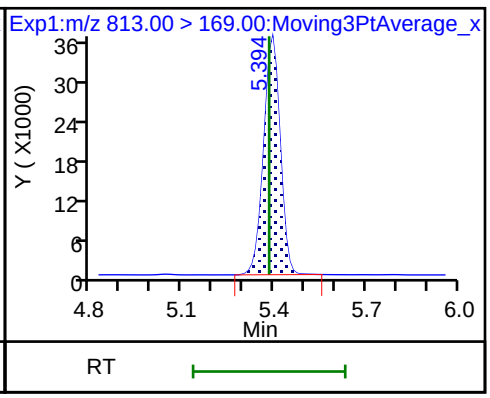
D 44 13C2 PFHxDA



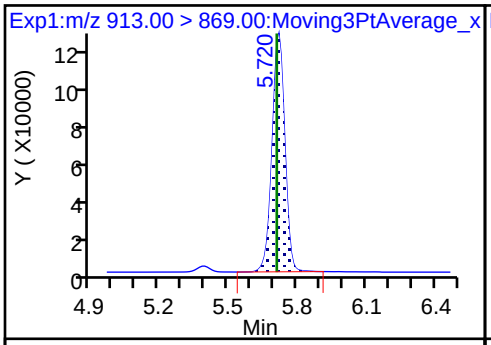
45 Perfluorohexadecanoic acid



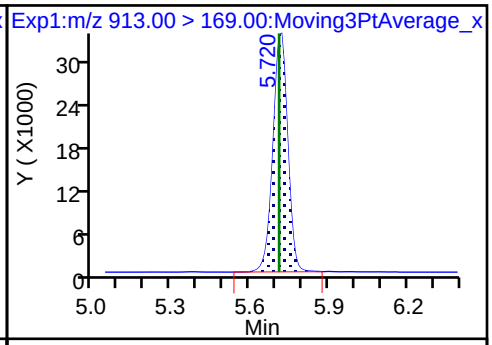
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

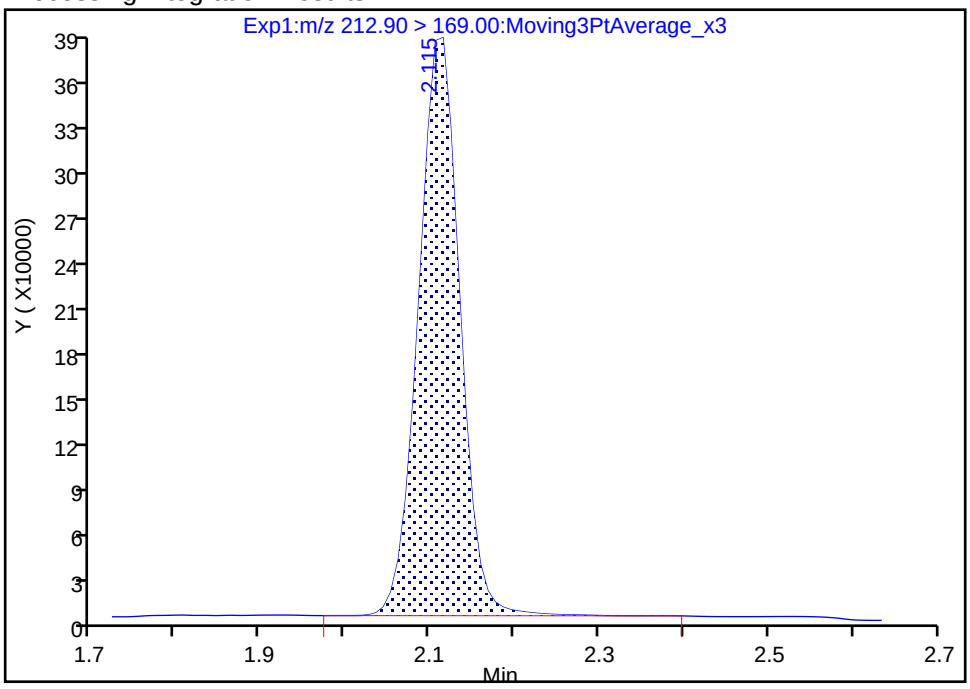
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Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

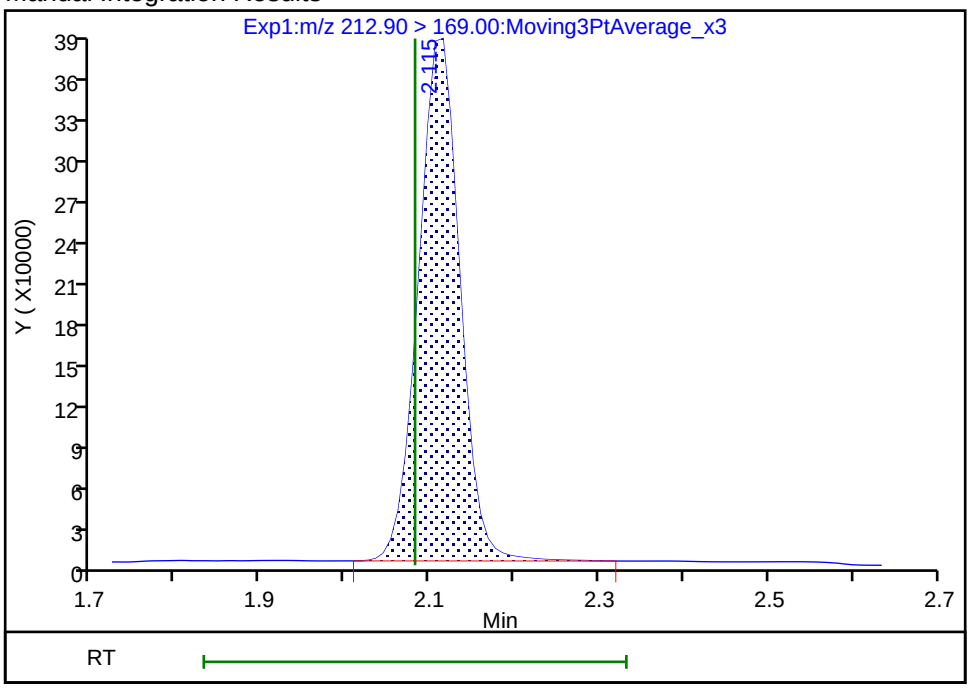
Processing Integration Results

RT: 2.12
Area: 1312075
Amount: 1.235022
Amount Units: ng/ml



Manual Integration Results

RT: 2.12
Area: 1310354
Amount: 1.233402
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:37:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

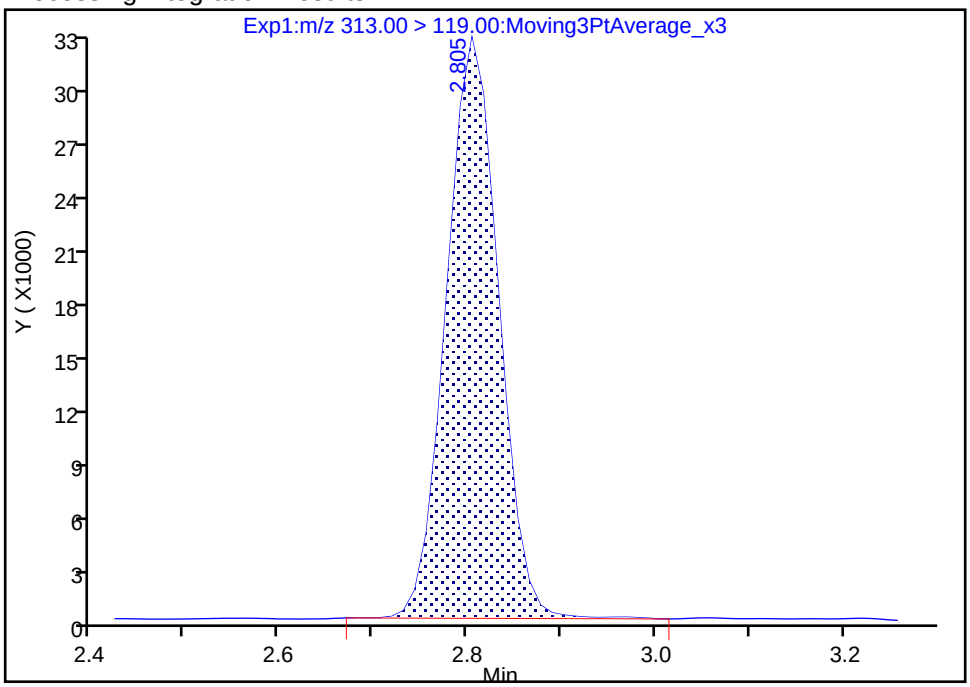
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Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

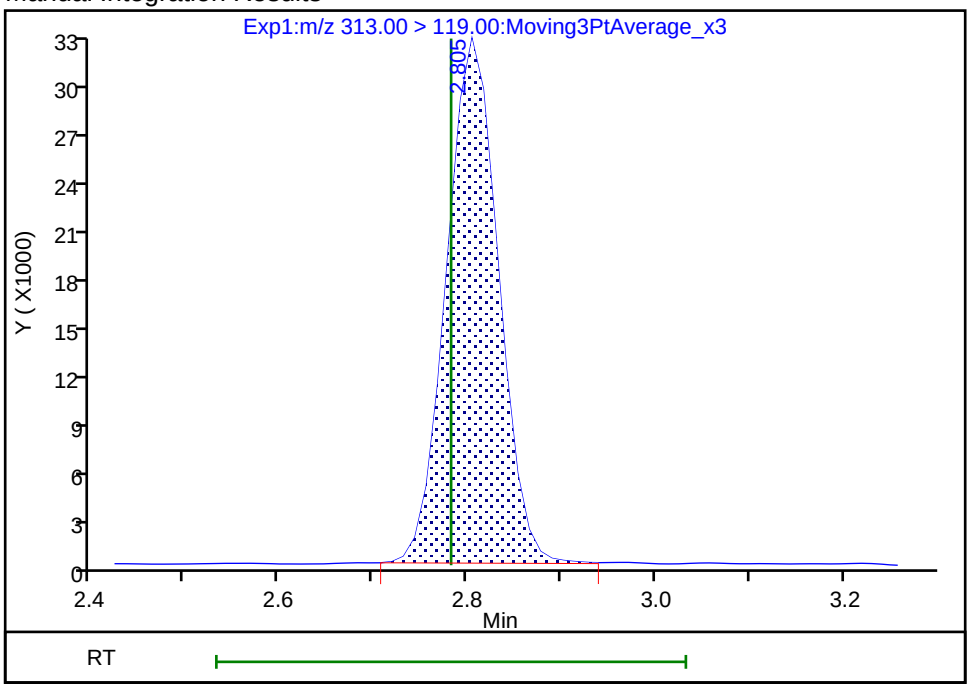
Processing Integration Results

RT: 2.80
Area: 125600
Amount: 1.351263
Amount Units: ng/ml



Manual Integration Results

RT: 2.80
Area: 125114
Amount: 1.349097
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:38:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

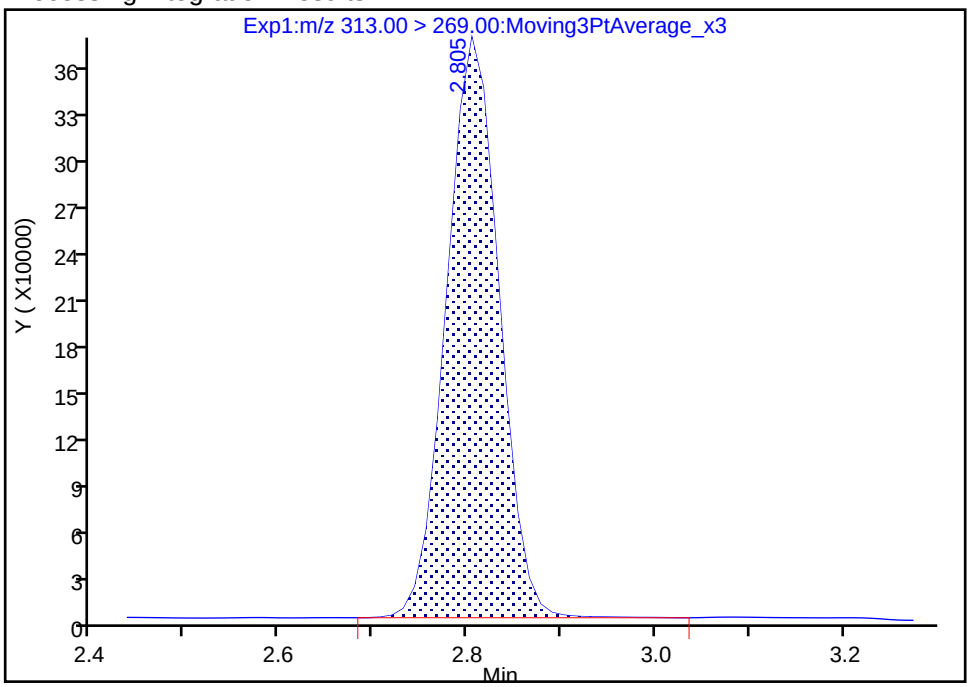
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Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

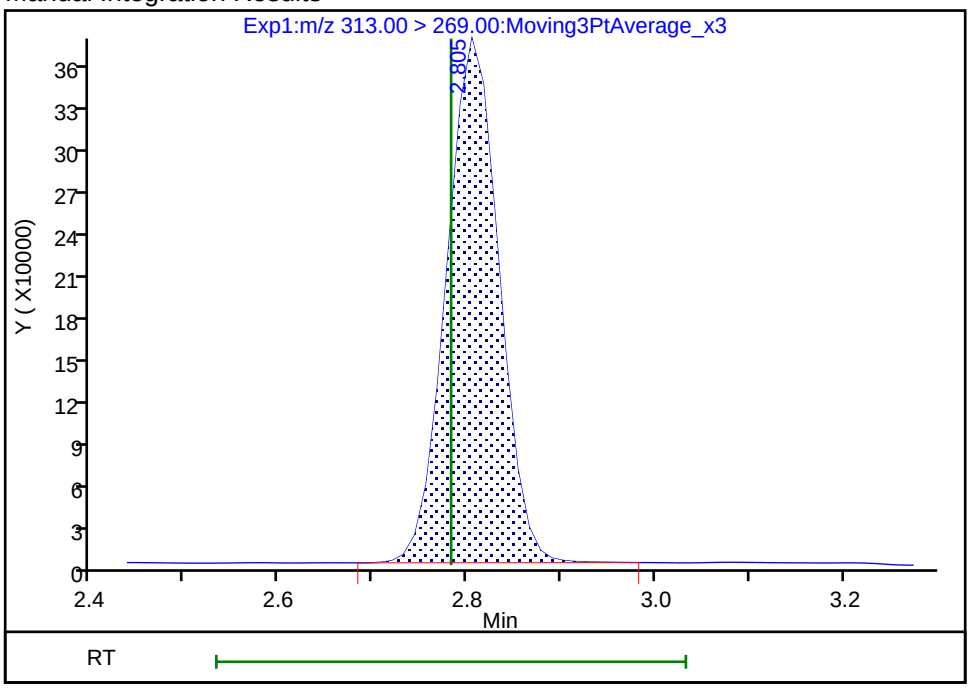
Processing Integration Results

RT: 2.80
Area: 1468258
Amount: 1.351263
Amount Units: ng/ml



Manual Integration Results

RT: 2.80
Area: 1465905
Amount: 1.349097
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:38:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

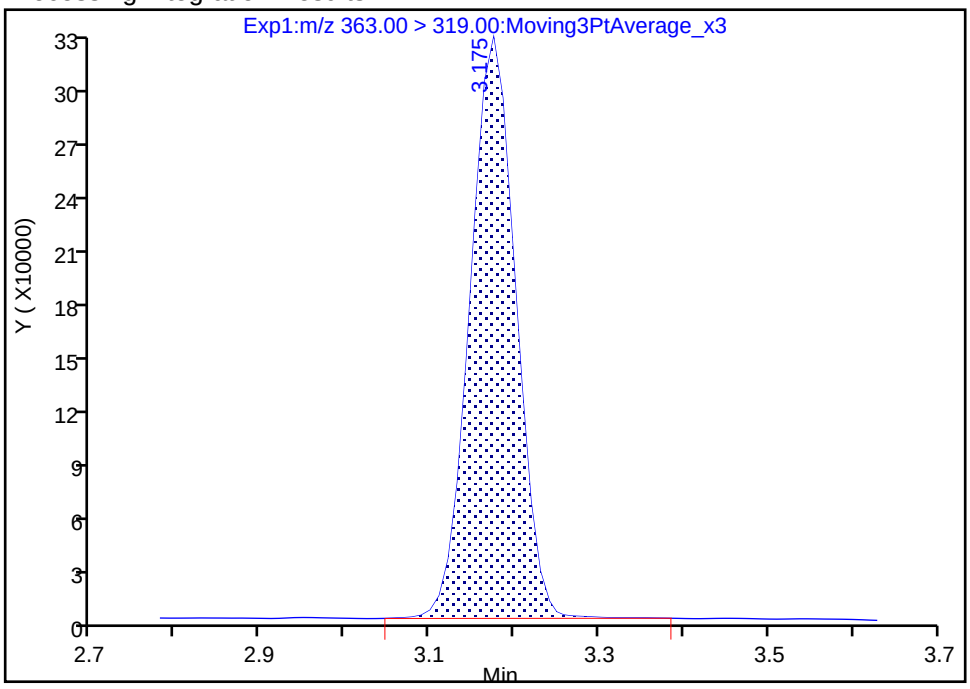
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Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

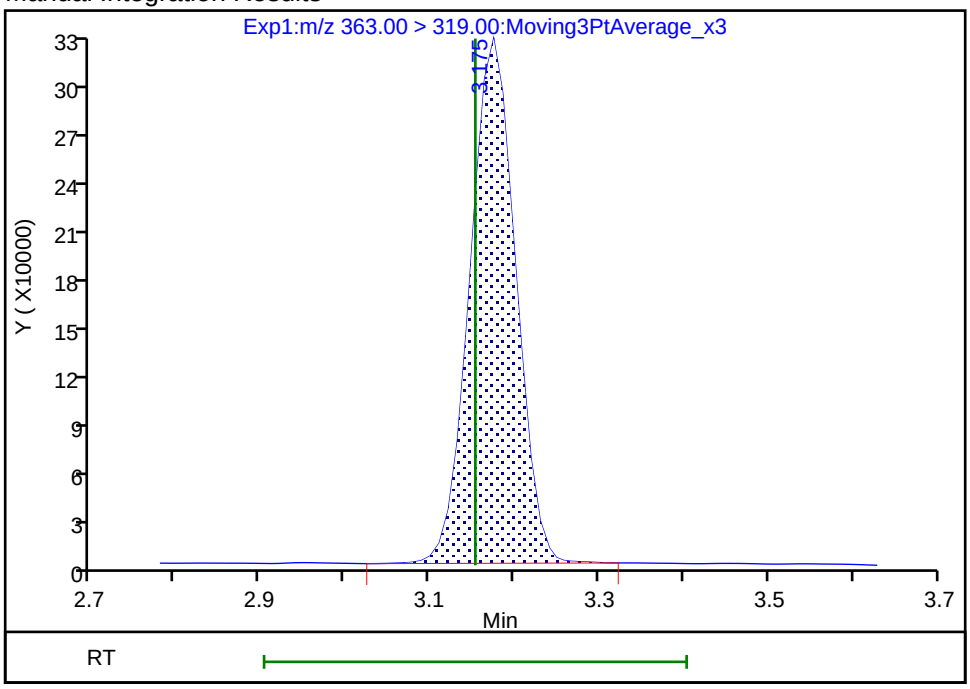
Processing Integration Results

RT: 3.18
Area: 1207439
Amount: 1.068905
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 1205060
Amount: 1.066799
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:39:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

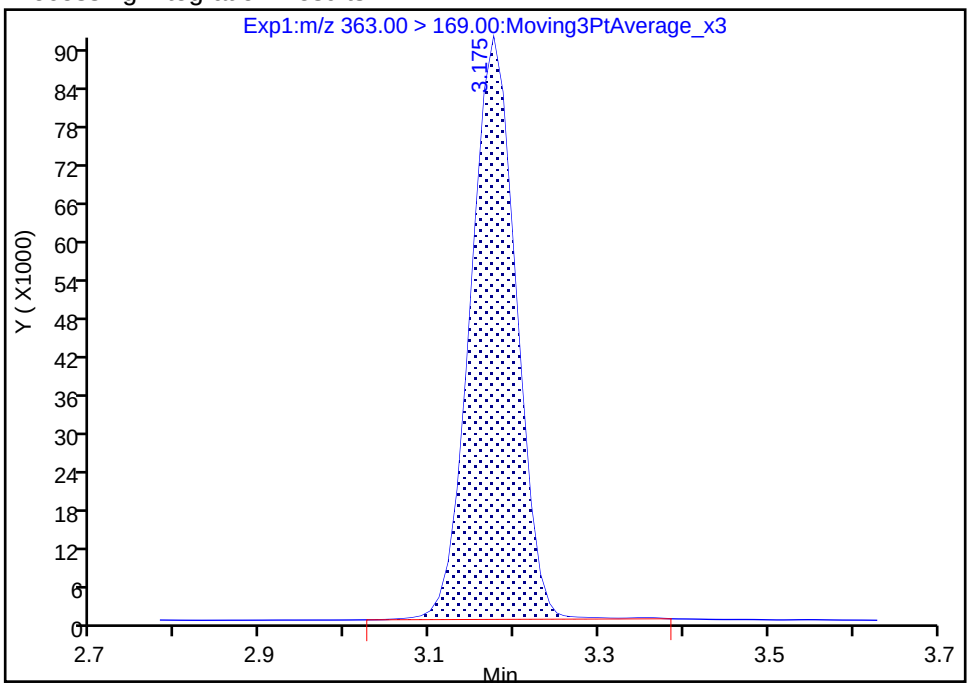
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d				
Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

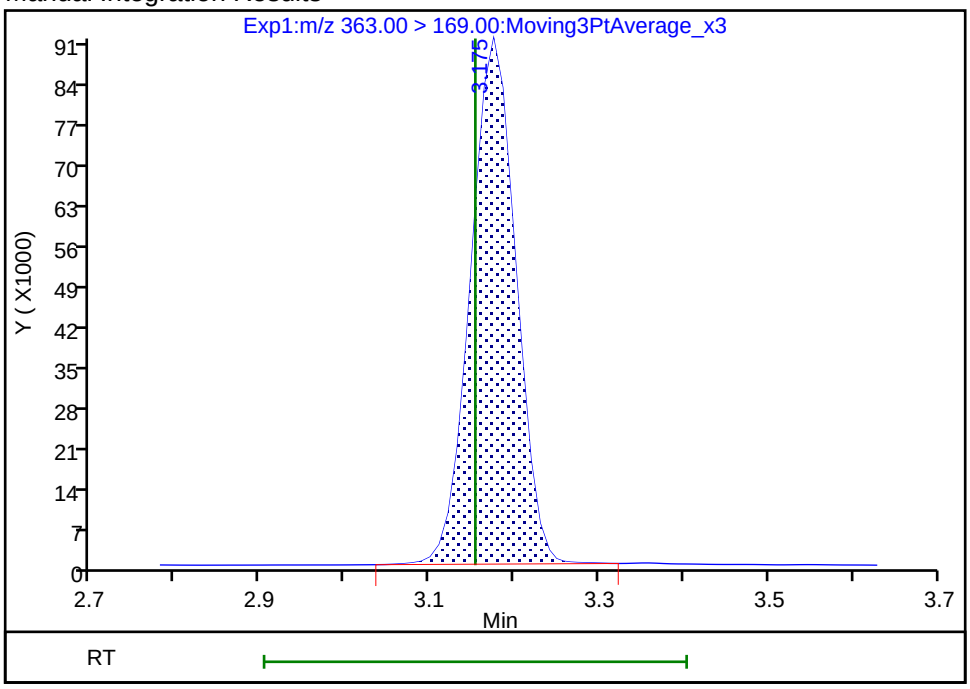
Processing Integration Results

RT: 3.18
Area: 342051
Amount: 1.068905
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 340838
Amount: 1.066799
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:39:15

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

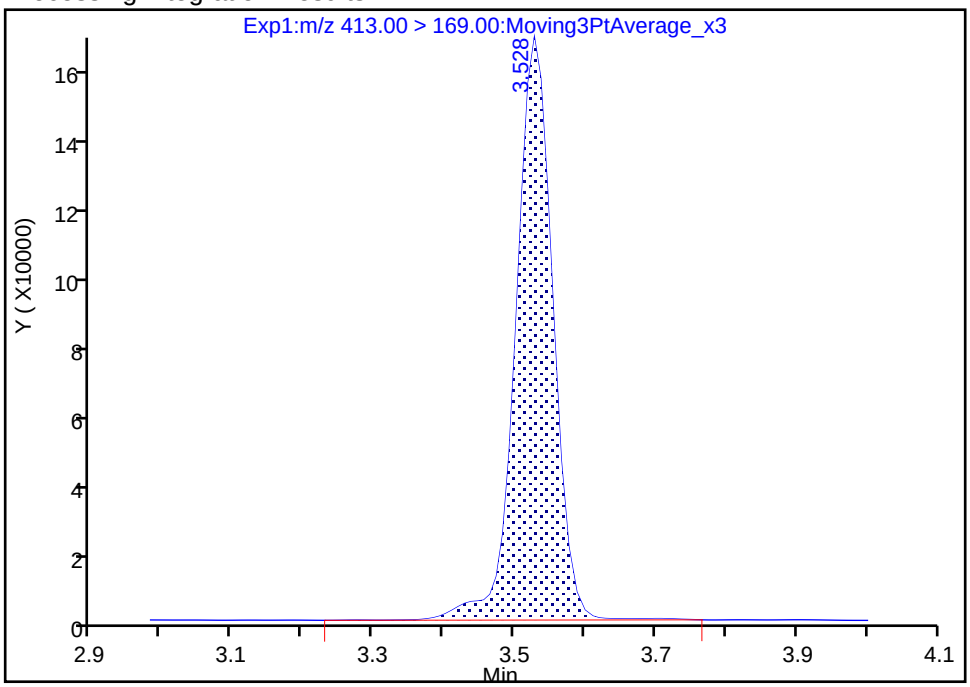
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Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

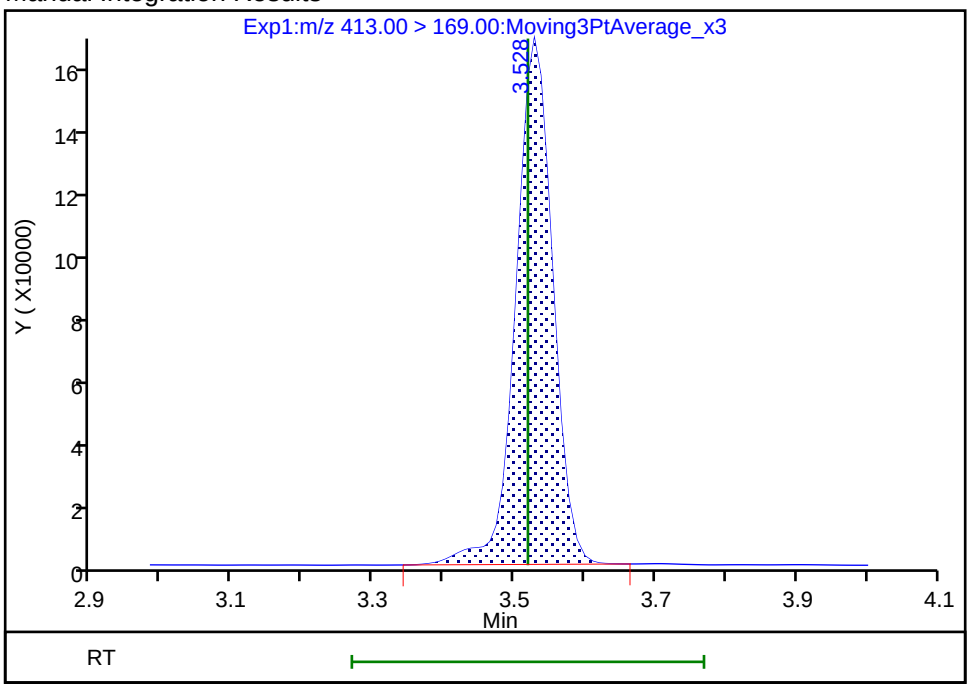
Processing Integration Results

RT: 3.53
Area: 606698
Amount: 1.267764
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 602005
Amount: 1.267764
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:39:49

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

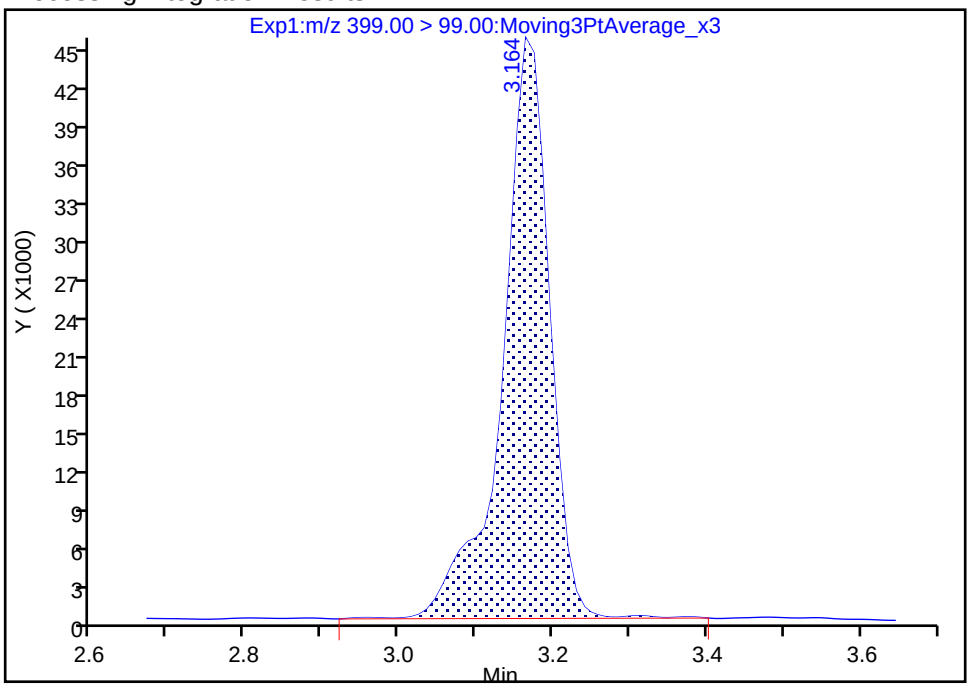
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d				
Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

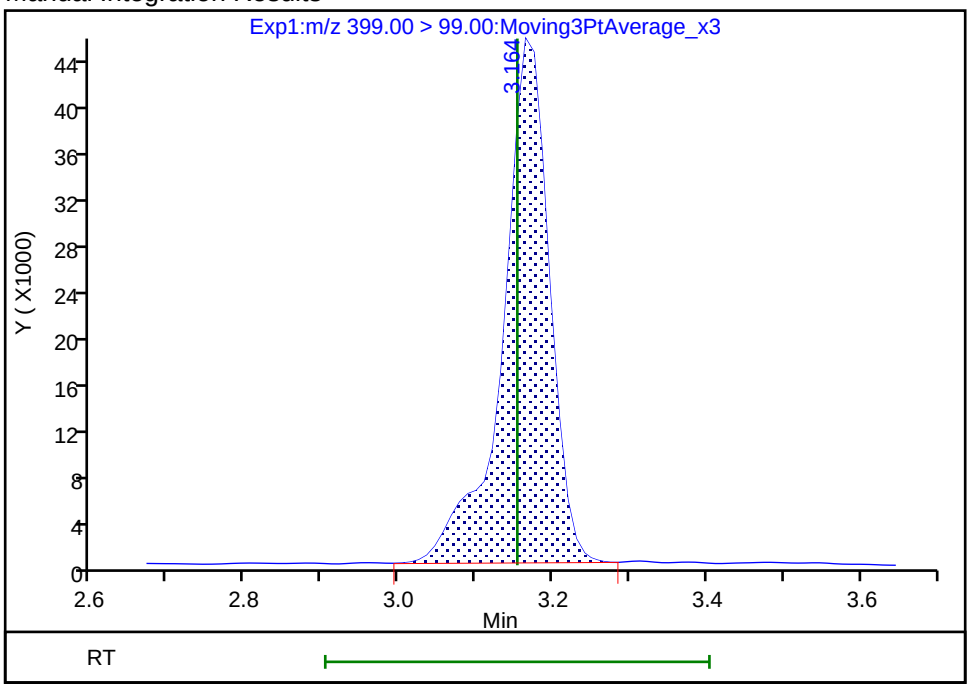
Processing Integration Results

RT: 3.16
Area: 192858
Amount: 0.929239
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 191054
Amount: 0.926856
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:39:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

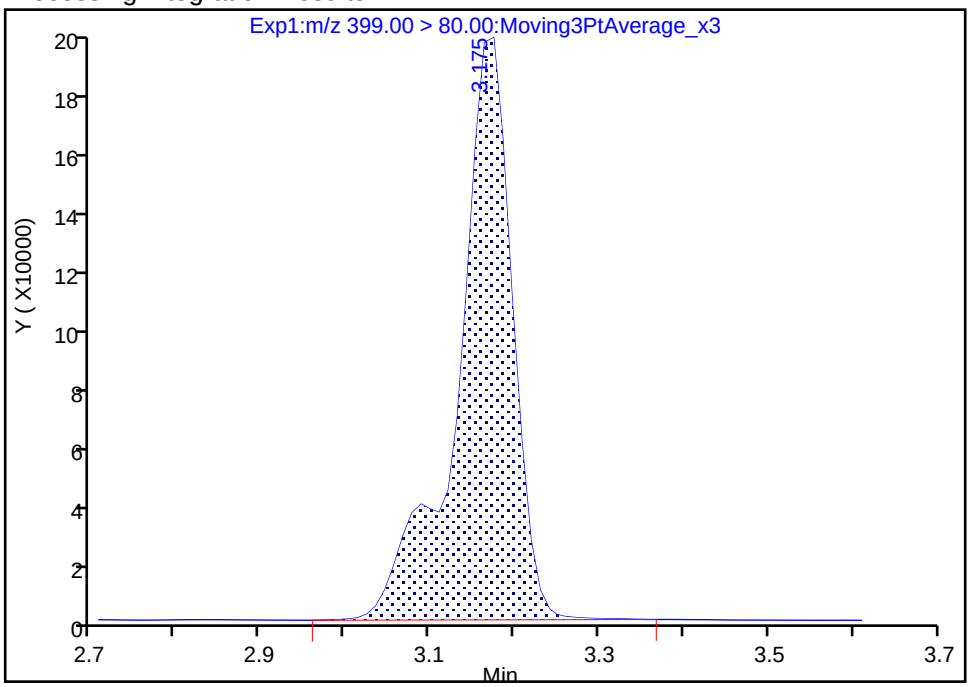
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Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

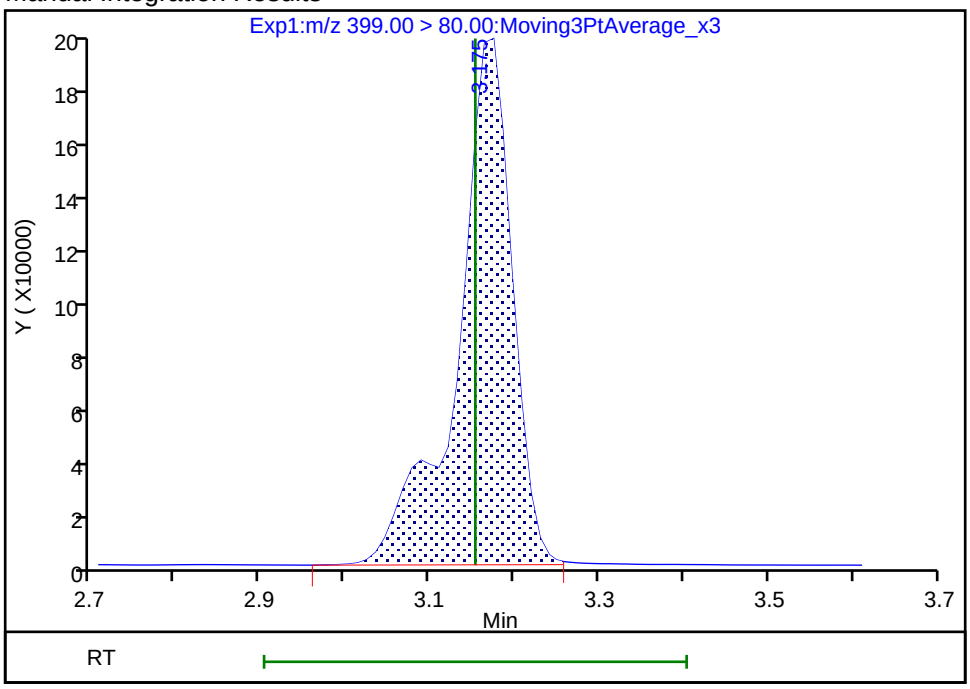
Processing Integration Results

RT: 3.18
Area: 880164
Amount: 0.929239
Amount Units: ng/ml



Manual Integration Results

RT: 3.18
Area: 877907
Amount: 0.926856
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:20:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

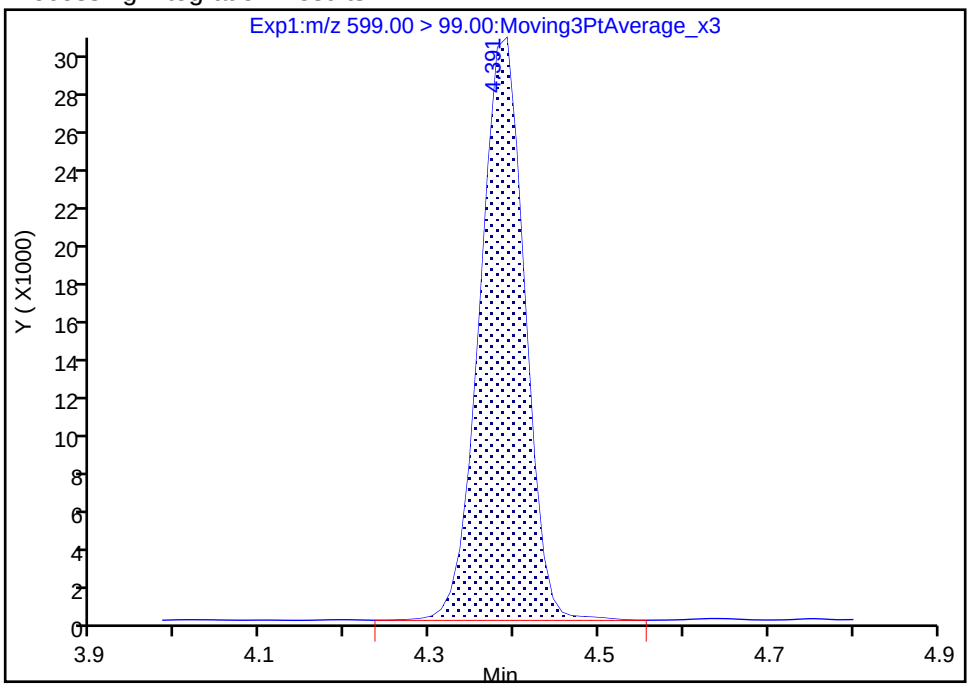
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Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

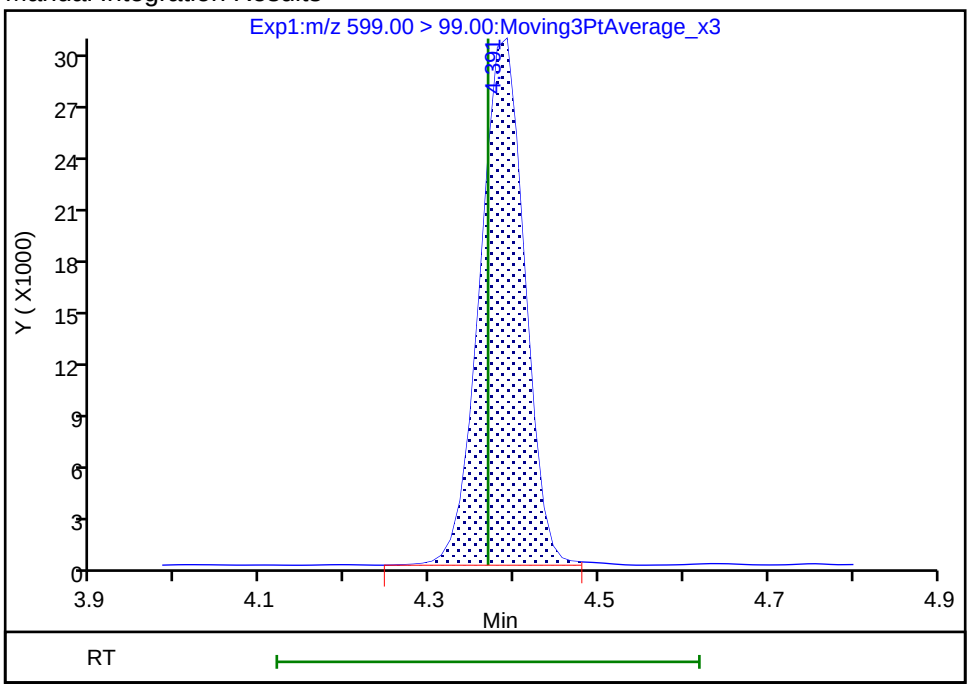
Processing Integration Results

RT: 4.39
Area: 111247
Amount: 0.791559
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 110814
Amount: 0.791559
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:40:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

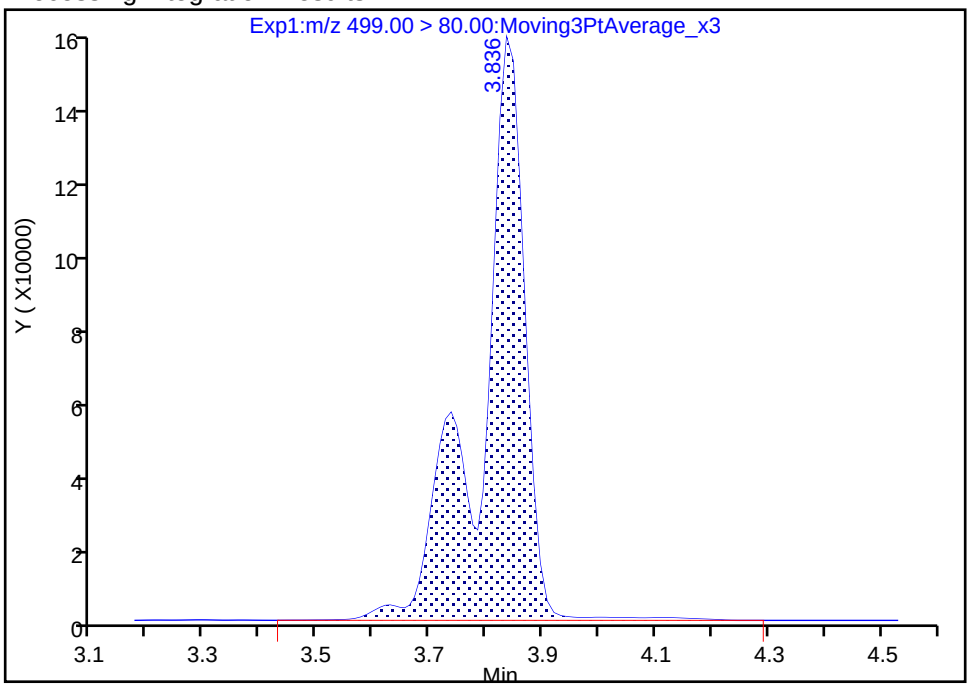
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Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

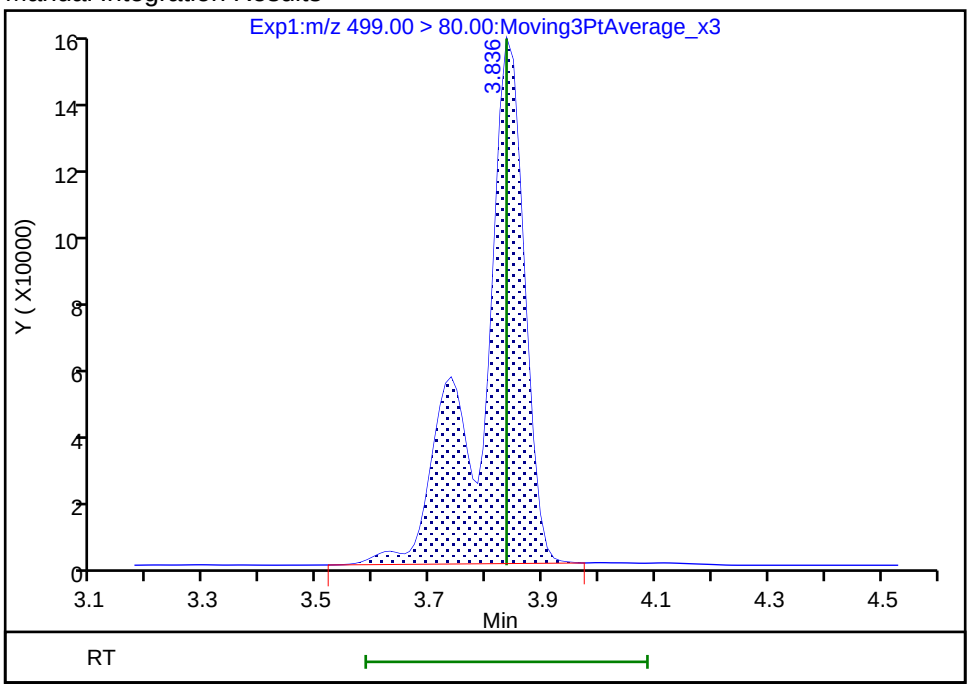
Processing Integration Results

RT: 3.84
Area: 880879
Amount: 1.283367
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 862065
Amount: 1.255956
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:40:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

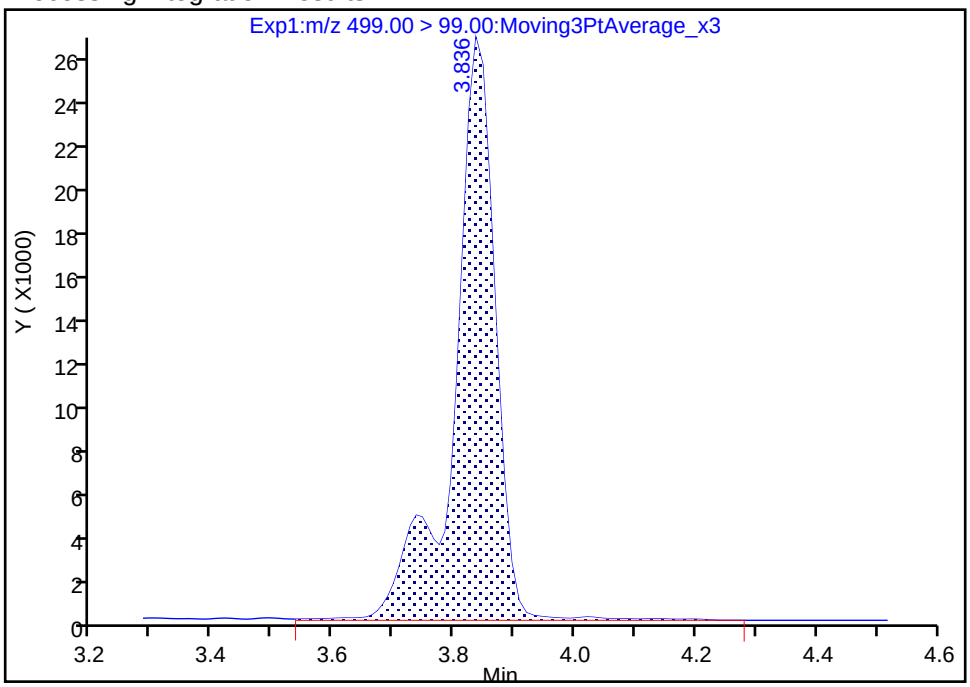
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Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

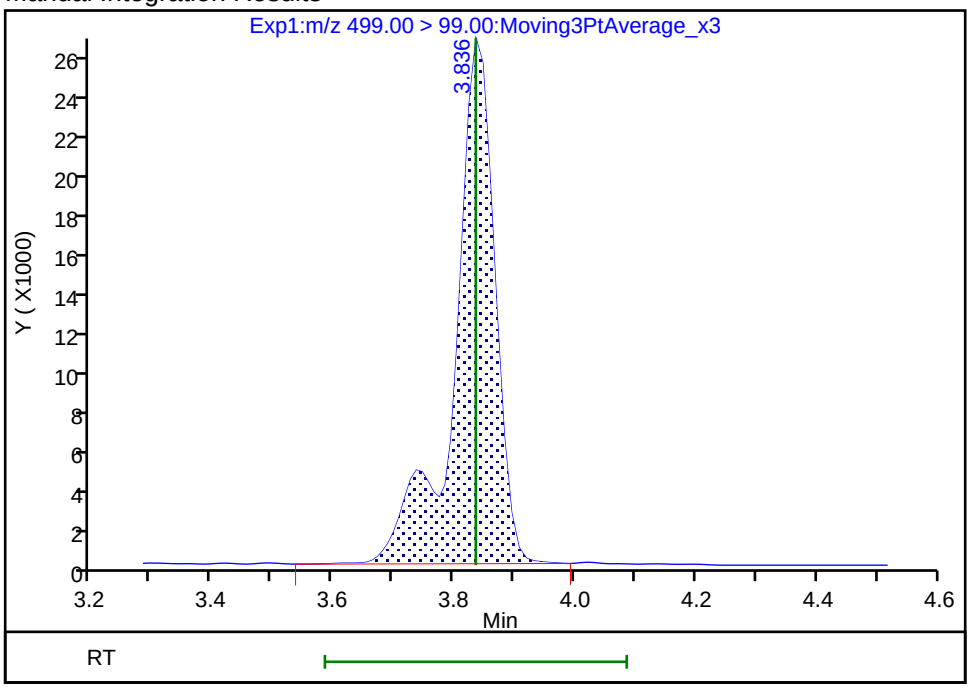
Processing Integration Results

RT: 3.84
Area: 126077
Amount: 1.283367
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 123205
Amount: 1.255956
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:40:07

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

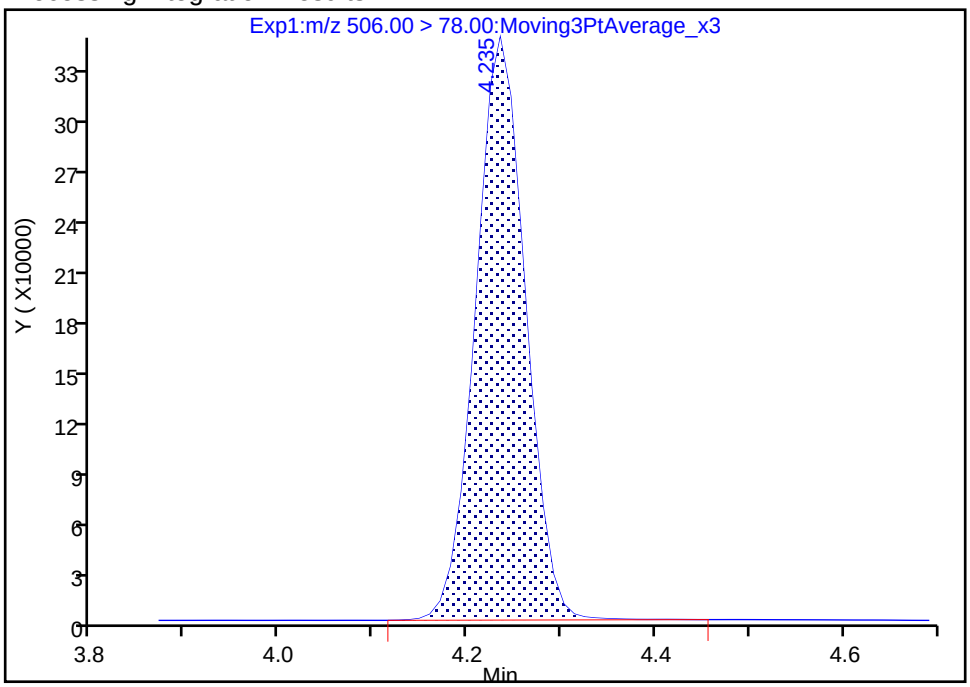
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d				
Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

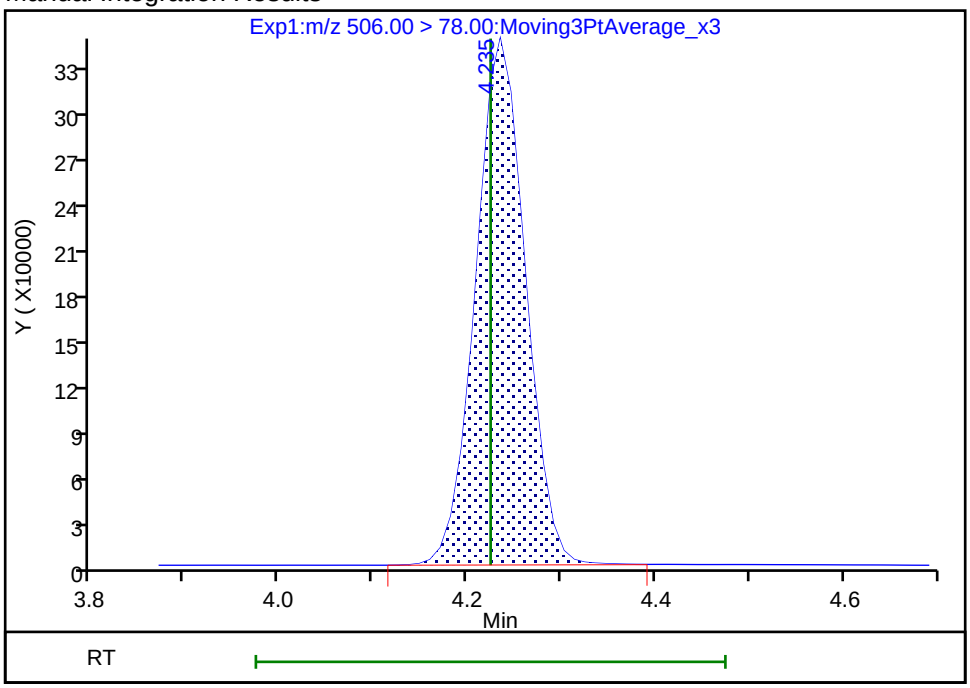
Processing Integration Results

RT: 4.23
Area: 1252715
Amount: 1.145015
Amount Units: ng/ml



Manual Integration Results

RT: 4.23
Area: 1252282
Amount: 1.144620
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:36:53

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

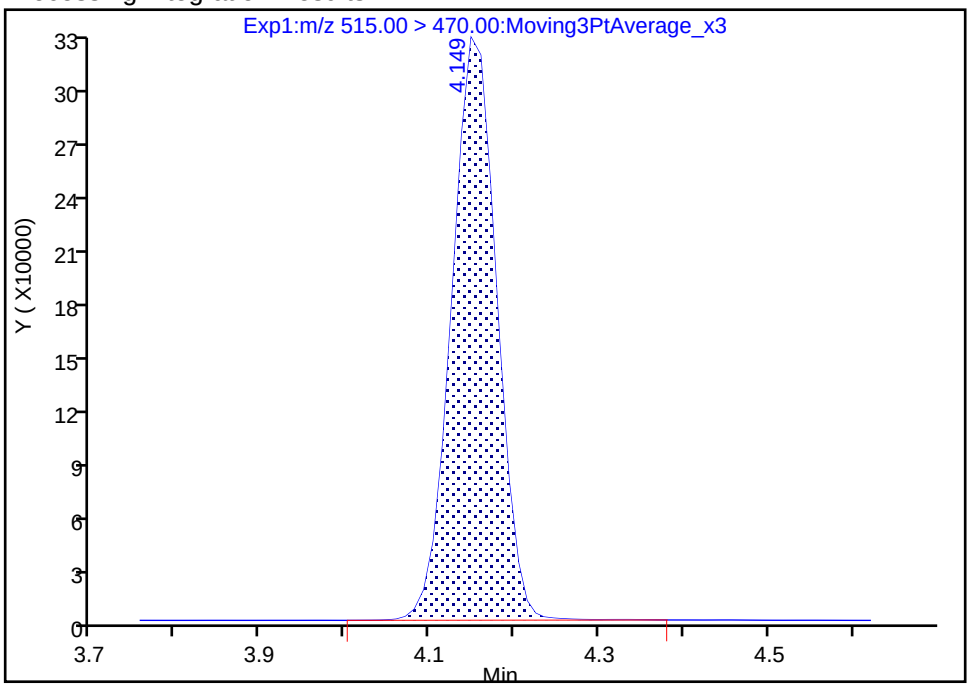
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Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

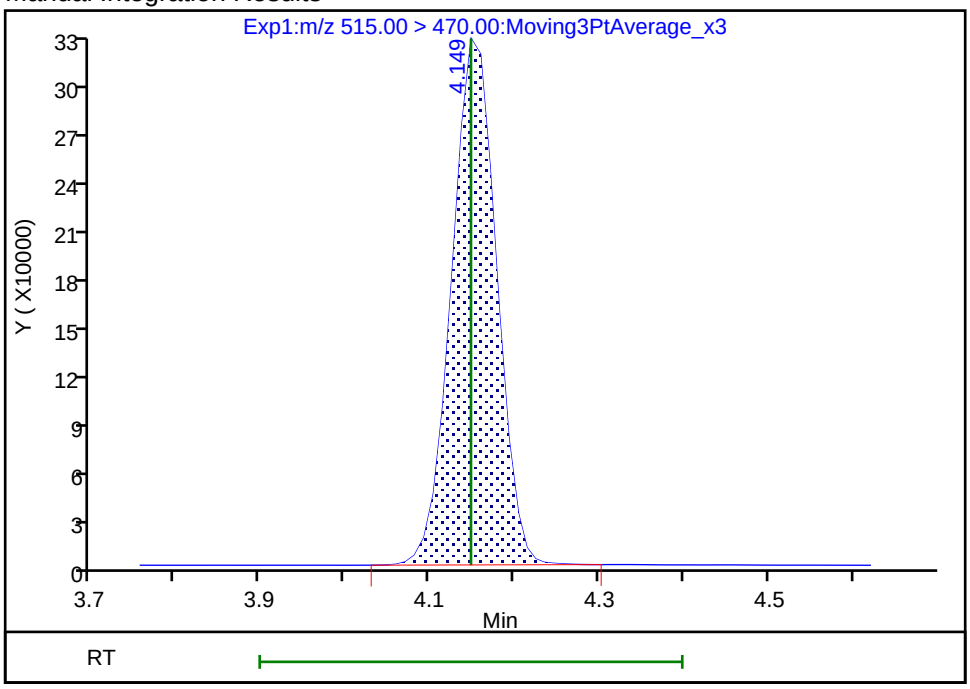
Processing Integration Results

RT: 4.15
Area: 1215652
Amount: 1.225238
Amount Units: ng/ml



Manual Integration Results

RT: 4.15
Area: 1212974
Amount: 1.222539
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:36:43

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

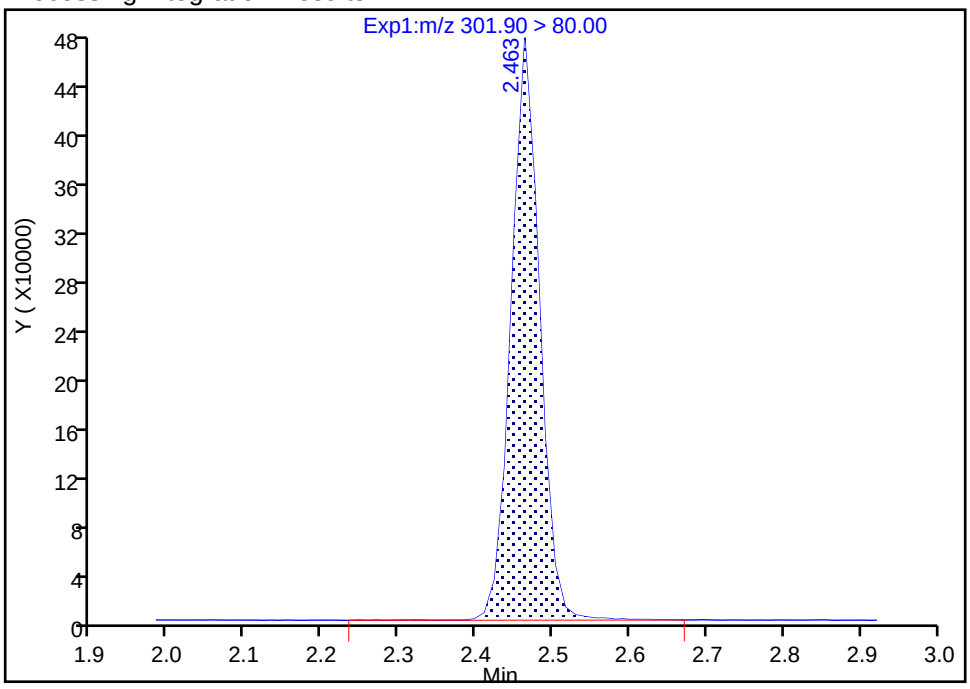
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Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

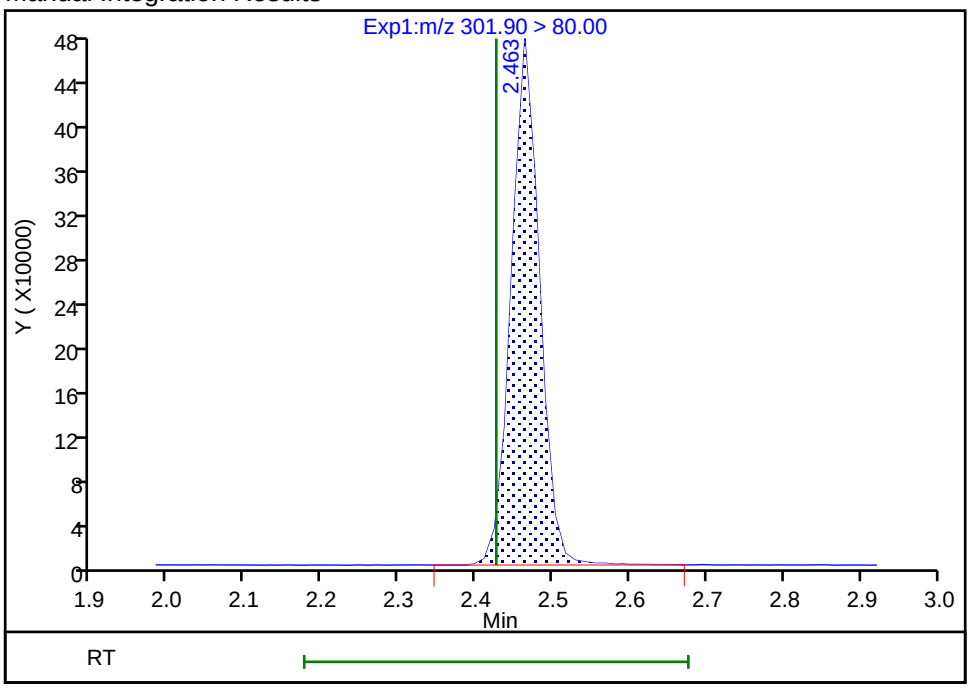
Processing Integration Results

RT: 2.46
Area: 1222963
Amount: 1.142827
Amount Units: ng/ml



Manual Integration Results

RT: 2.46
Area: 1221366
Amount: 1.141334
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:36:02

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

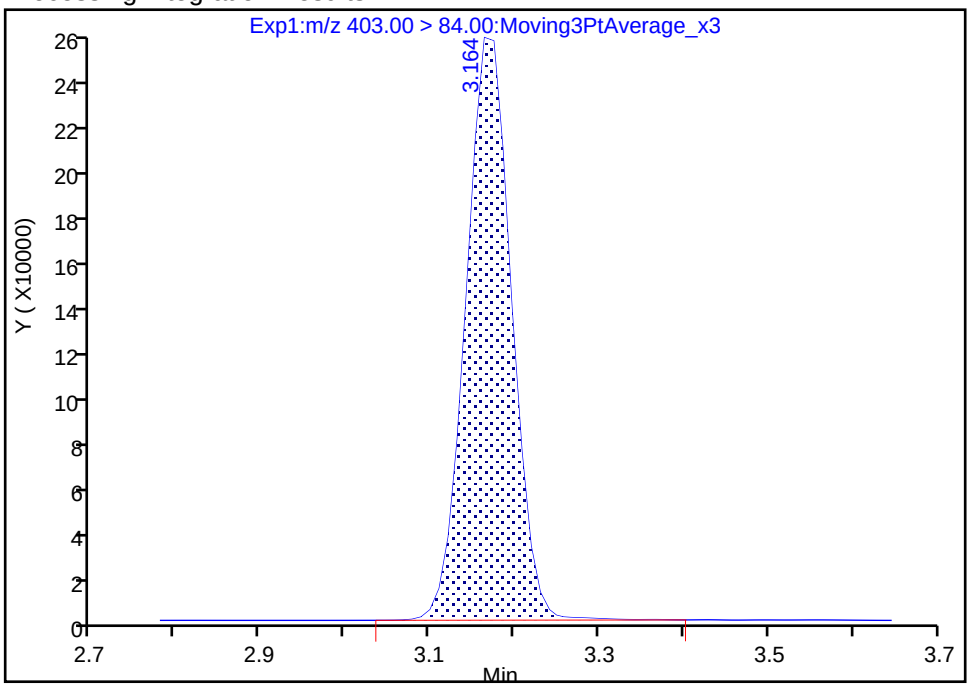
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Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 11 18O2 PFHxS, CAS: STL00994

Signal: 1

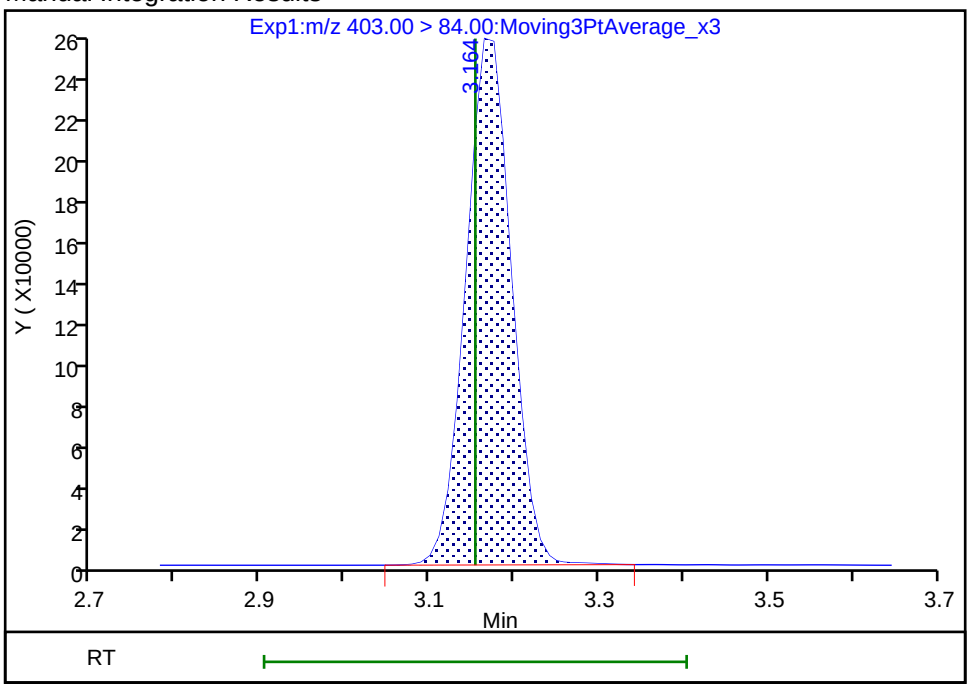
Processing Integration Results

RT: 3.16
Area: 969713
Amount: 1.140677
Amount Units: ng/ml



Manual Integration Results

RT: 3.16
Area: 968020
Amount: 1.138686
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:36:20

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

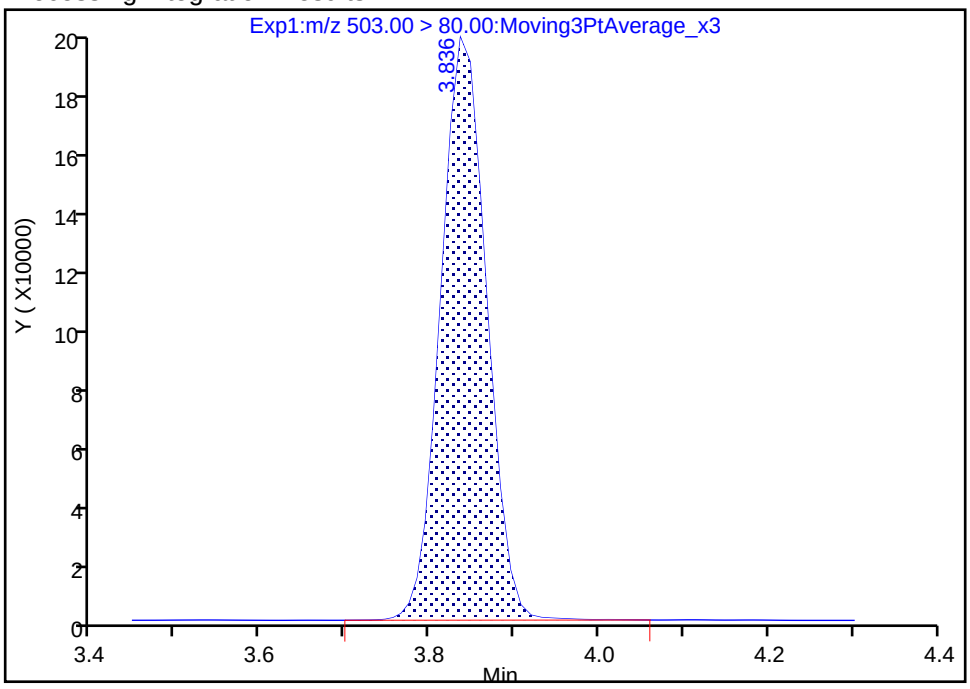
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d				
Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

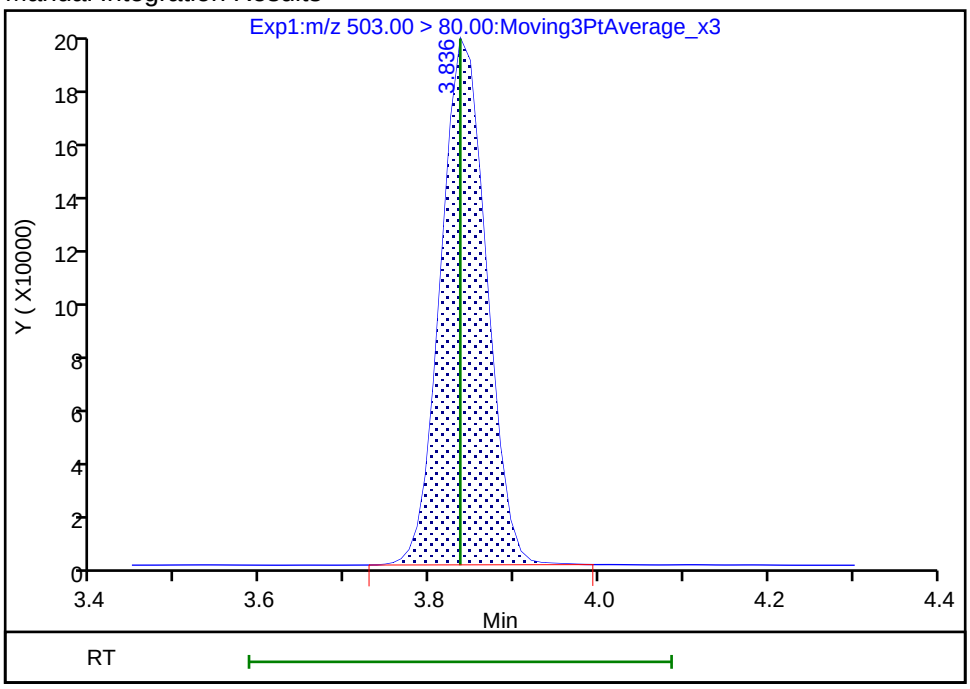
Processing Integration Results

RT: 3.84
Area: 733608
Amount: 1.182535
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 731895
Amount: 1.179774
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:36:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

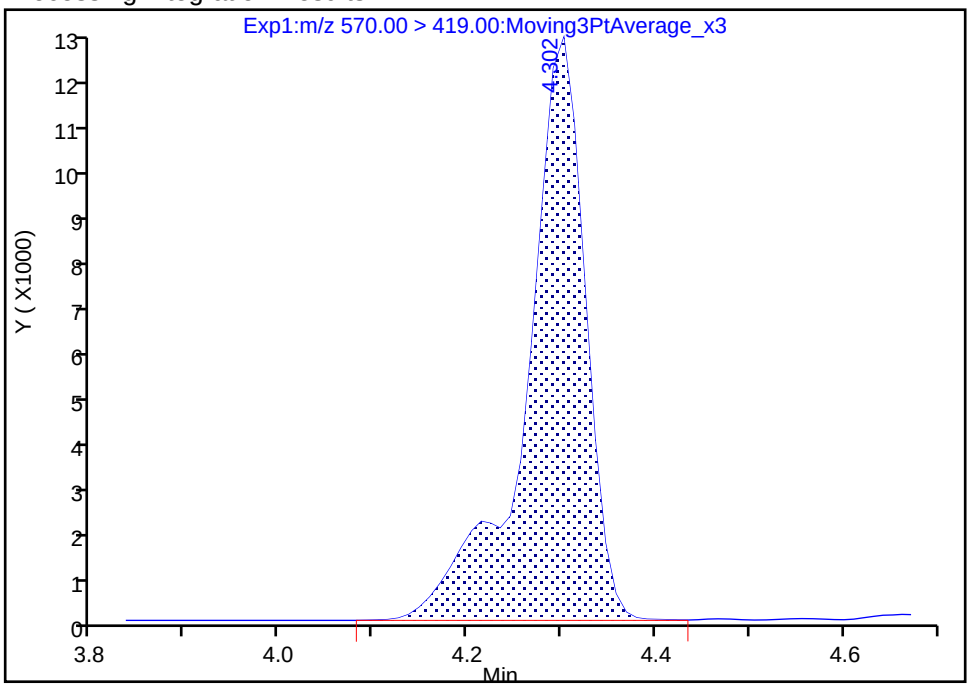
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d				
Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

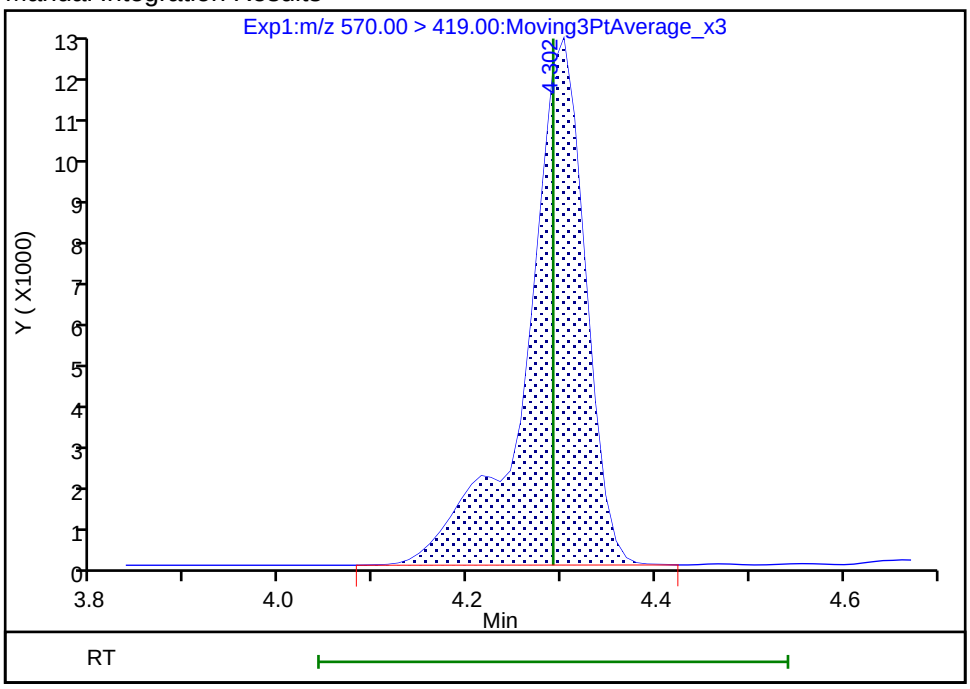
Processing Integration Results

RT: 4.30
Area: 54154
Amount: 1.068772
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 54078
Amount: 1.067272
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:40:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

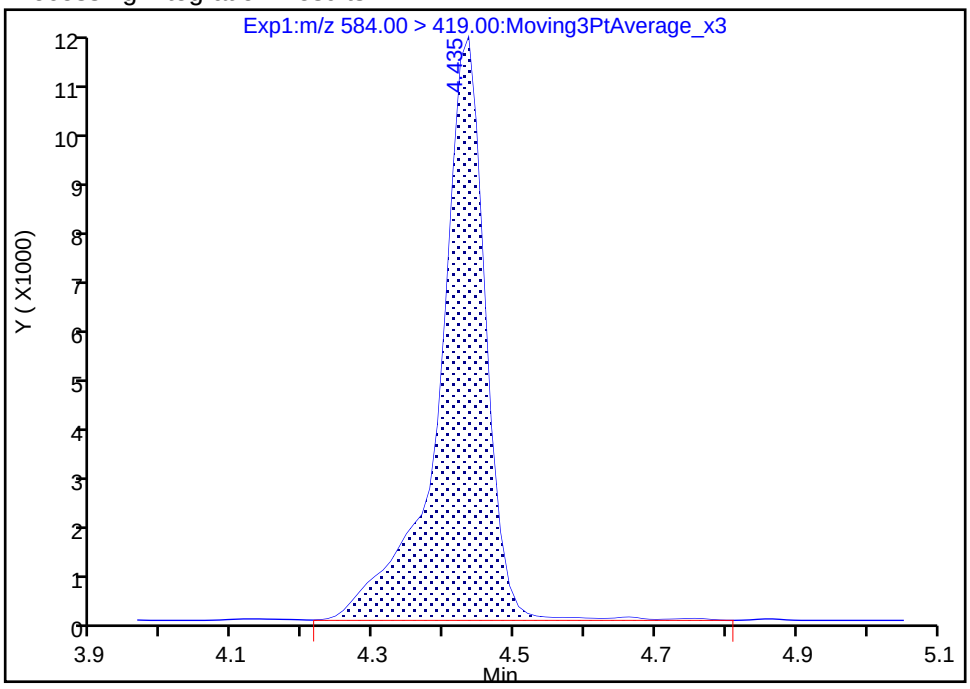
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d				
Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

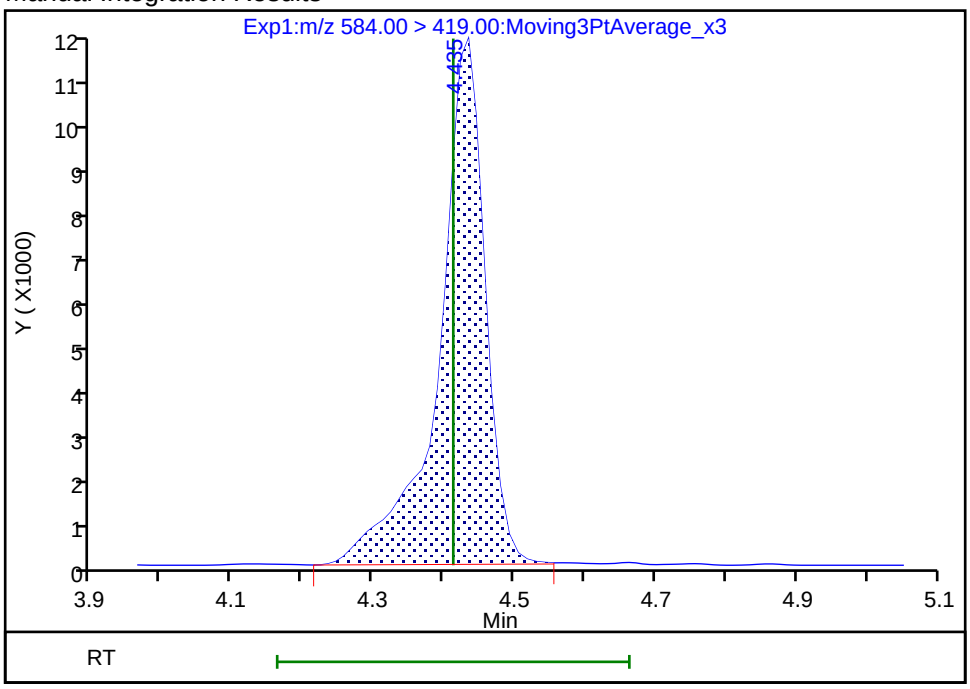
Processing Integration Results

RT: 4.43
Area: 51969
Amount: 0.954496
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 51163
Amount: 0.939693
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:40:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

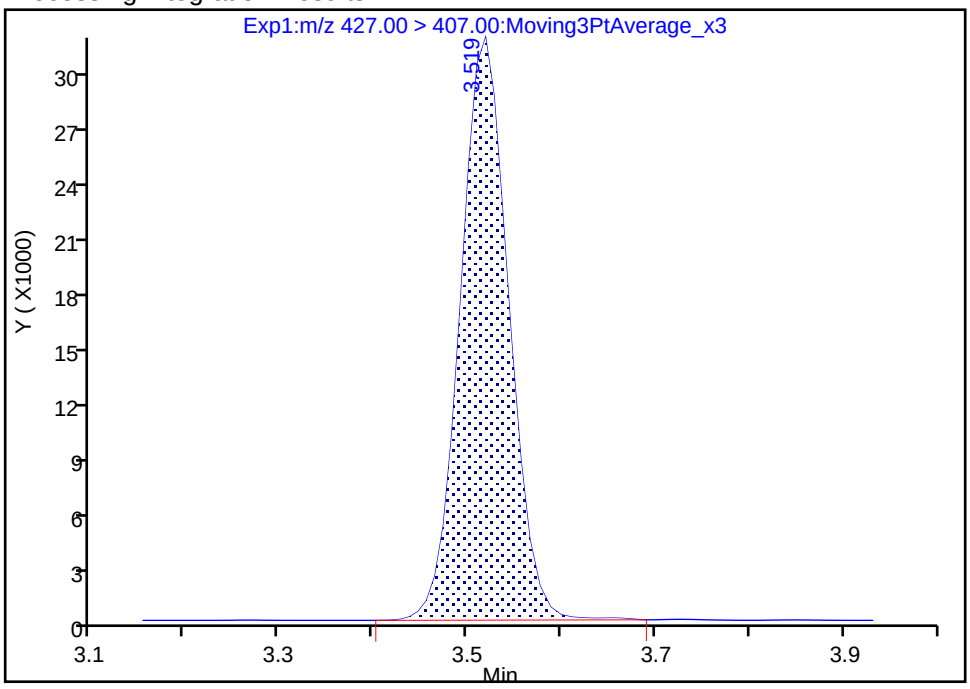
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A11.d				
Injection Date:	11-Aug-2021 14:08:23	Instrument ID:	LC812		
Lims ID:	480-188016-B-6-B MS				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	8	Worklist Smp#:	11
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

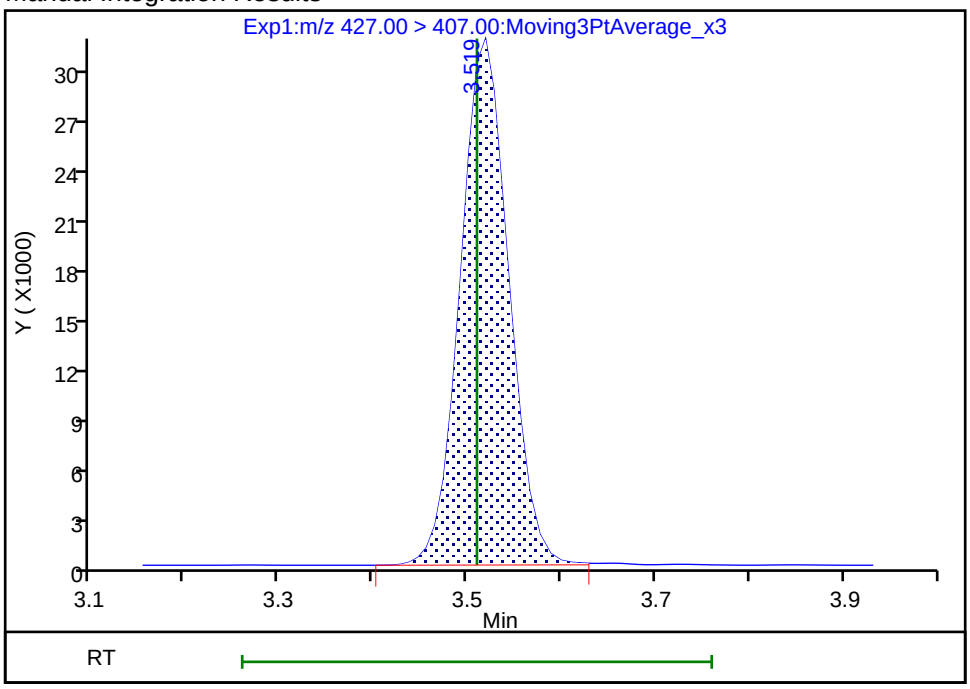
Processing Integration Results

RT: 3.52
Area: 114148
Amount: 0.936830
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 113902
Amount: 0.934811
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:39:40

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-1SH MSD Lab Sample ID: 480-188016-6 MSD

Matrix: Water Lab File ID: PA210811A12.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 09:13

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 261.2(mL) Date Analyzed: 08/11/2021 14:16

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	46.9		4.8	0.85
2706-90-3	Perfluoropentanoic acid (PFPeA)	53.9		1.9	0.45
307-24-4	Perfluorohexanoic acid (PFHxA)	54.1		1.9	0.43
375-85-9	Perfluoroheptanoic acid (PFHpA)	41.8		1.9	0.23
335-67-1	Perfluorooctanoic acid (PFOA)	44.0		1.9	0.41
375-95-1	Perfluorononanoic acid (PFNA)	41.0		1.9	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	36.6		1.9	0.29
2058-94-8	Perfluoroundecanoic acid (PFUnA)	36.5		1.9	0.33
307-55-1	Perfluorododecanoic acid (PFDoA)	37.4		1.9	0.37
72629-94-8	Perfluorotridecanoic acid (PFTriA)	35.5		1.9	0.42
376-06-7	Perfluorotetradecanoic acid (PFTeA)	35.8		1.9	0.60
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.8		1.9	0.24
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	34.7		1.9	0.29
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	37.8		1.9	0.22
335-77-3	Perfluorodecanesulfonic acid (PFDS)	29.2		1.9	0.29
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	47.3		1.9	0.28
754-91-6	Perfluorooctanesulfonamide (FOSA)	37.3		1.9	0.55
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	36.8		4.8	0.86
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	35.0		4.8	0.71
27619-97-2	6:2 FTS	37.0		4.8	1.0
39108-34-4	8:2 FTS	40.0		1.9	0.37

FORM I
PFAS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Client Sample ID: MW-86-1SH MSD Lab Sample ID: 480-188016-6 MSD

Matrix: Water Lab File ID: PA210811A12.d

Analysis Method: 537 (modified) Date Collected: 08/03/2021 09:13

Extraction Method: 3535 Date Extracted: 08/10/2021 14:14

Sample wt/vol: 261.2(mL) Date Analyzed: 08/11/2021 14:16

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 170086 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	94		25-150
STL00992	13C4 PFBA	87		25-150
STL01893	13C5 PFPeA	98		25-150
STL00993	13C2 PFHxA	97		50-150
STL01892	13C4 PFHpA	98		50-150
STL00990	13C4 PFOA	107		50-150
STL00995	13C5 PFNA	99		50-150
STL00996	13C2 PFDA	99		50-150
STL00997	13C2 PFUnA	92		50-150
STL00998	13C2 PFDoA	85		50-150
STL02116	13C2 PFTeDA	88		50-150
STL02337	13C3 PFBS	105		50-150
STL00994	18O2 PFHxS	103		50-150
STL00991	13C4 PFOS	103		50-150
STL02118	d3-NMeFOSAA	93		50-150
STL02117	d5-NEtFOSAA	89		50-150
STL02279	M2-6:2 FTS	105		25-150
STL02280	M2-8:2 FTS	94		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d
Lims ID: 480-188016-A-6-C MSD
Client ID: MW-86-1SH
Sample Type: MSD
Inject. Date: 11-Aug-2021 14:16:42 ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Sample Info: 480-188016-A-6-C MSD
Misc. Info.: 200-0047128-012 Plate: 1 Rack: 1
Operator ID: lc812tech Instrument ID: LC812

Method: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PFC_LC812.m
Limit Group: LC_PFC_ICAL
Last Update: 12-Aug-2021 12:31:39 Calib Date: 08-Jul-2021 16:00:26
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210708-46726.b\PA210708ICAL07.d

Column 1 : C-18 (4.60 mm) Det: EXP1
Process Host: CTX1633

First Level Reviewer: nampitakw Date: 12-Aug-2021 09:47:21
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	2.109	2.082	0.027	0.598	1388862	1.09		87.4	8356	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.082	0.027	1.000	1310703	1.22		122	184	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.439	2.413	0.026	0.691	1179738	1.23		98.2	3225	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.452	2.413	0.039	1.005	1374224	1.41		141	90.5	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.466	2.426	0.040	0.699	1247477	1.22		105	115509	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.466	2.426	0.040	1.000	1055046	0.9102	Target=2.20	103	339	M
298.90 > 99.00	2.466	2.426	0.040	1.000	473985		2.23(1.10-3.30)		264	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.770	2.734	0.036	1.000	159843	0.9586		103	1541	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.770	2.734	0.036	0.785	100963	1.20		103	50.4	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.807	2.782	0.025	0.796	1288957	1.22		97.4	5289	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.807	2.782	0.025	1.000	1466903	1.41	Target=12.93	141	234	
313.00 > 119.00	2.807	2.782	0.025	1.000	112434		13.05(6.46-19.39)		301	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.807	2.782	0.025	0.884	958606	0.9399	Target=3.71	100	659	M
349.00 > 99.00	2.819	2.782	0.037	0.888	263853		3.63(1.85-5.56)		337	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.921	2.892	0.029	0.828	137707	1.20		96.3	1238	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.911	2.892	0.019	0.997	191215	1.05		105	66.0	
D 11 18O2 PFHxS										
403.00 > 84.00	3.175	3.154	0.021	0.900	981218	1.21		103	2589	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.175	3.154	0.021	1.000	870731	0.9069	Target=4.48	99.7	798	M
399.00 > 99.00	3.175	3.154	0.021	1.000	187847		4.64(2.24-6.72)		224	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.175	3.154	0.021	1.000	1172975	1.09	Target=3.68	109	278	
363.00 > 169.00	3.175	3.154	0.021	1.000	324511		3.61(1.84-5.53)		857	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.175	3.154	0.021	0.900	1298926	1.22		97.9	3046	
77 DONA										M
377.00 > 251.00	3.208	3.196	0.012	0.834	2003681	0.9396	Target=2.47	99.7	2905	M
377.00 > 85.00	3.208	3.196	0.012	0.834	764941		2.62(1.24-3.71)		1029	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.519	3.510	0.009	0.915	744445	0.9874	Target=6.56	104	1287	M
449.00 > 99.00	3.519	3.510	0.009	0.915	108148		6.88(3.28-9.84)		425	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.519	3.510	0.009	0.997	140499	1.25		105	325	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.519	3.510	0.009	1.000	118561	0.9669		102	1235	
D 14 13C4 PFOA										
417.00 > 372.00	3.528	3.519	0.009	1.000	1466706	1.34		107	5876	
* 62 13C2 PFOA										
415.00 > 370.00	3.528	3.519	0.009		1387823	1.25			4238	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.528	3.519	0.009	1.000	1419080	1.15	Target=2.67	115	442	M
413.00 > 169.00	3.528	3.519	0.009	1.000	569175		2.49(1.33-4.00)		1026	M
D 18 13C4 PFOS										
503.00 > 80.00	3.847	3.836	0.011	1.091	723526	1.23		103	2194	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.847	3.836	0.011	1.000	839111	1.24	Target=6.69	133	638	M
499.00 > 99.00	3.836	3.836	0.0	0.997	124733		6.73(3.34-10.03)		438	M
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.094	1288785	1.24		99.0	3508	
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	1067590	1.07	Target=7.21	107	364	
463.00 > 169.00	3.859	3.858	0.001	1.000	141910		7.52(3.60-10.81)		799	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	4.002	3.992	0.010	1.040	591403	0.7971		85.5	2820	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.115	0.011	1.072	401720	0.7996	Target=3.20	83.3	2307	
549.00 > 99.00	4.126	4.115	0.011	1.072	127708		3.15(1.60-4.80)		584	
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.148	0.012	1.179	1164654	1.23		98.6	3123	

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	4.160	4.148	0.012	1.000	947304	0.9552	Target=8.42	95.5	928	
513.00 > 169.00	4.160	4.148	0.012	1.000	107298		8.83(4.21-12.63)		848	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.171	4.160	0.011	1.003	65668	1.04		109	915	M
D 26 M2-8:2 FTS										M
529.00 > 81.00	4.160	4.160	0.0	1.179	151189	1.13		94.5	520	M
D 21 13C8 FOSA										
506.00 > 78.00	4.235	4.224	0.011	1.200	1226802	1.18		94.2	3281	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.235	4.224	0.011	1.000	934187	0.9732		97.3	1730	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.302	4.280	0.022	1.220	80733	1.16		93.0	259	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.302	4.291	0.011	1.000	51661	0.9622		96.2	263	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.391	4.369	0.022	1.141	292721	0.7633	Target=2.66	79.2	2313	M
599.00 > 99.00	4.391	4.369	0.022	1.141	98787		2.96(1.33-3.99)		701	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.402	0.011	1.251	860630	1.15		91.9	2842	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.402	0.022	1.002	635625	0.9543	Target=7.70	95.4	758	
563.00 > 169.00	4.413	4.402	0.011	1.000	81589		7.79(3.85-11.56)		1091	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.424	4.413	0.011	1.254	80688	1.12		89.3	848	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.434	4.413	0.021	1.002	49934	0.9131		91.3	363	M
66 11-Chloroeicosafluoro-3-oxaundec										
631.00 > 451.00	4.505	4.492	0.013	1.171	476388	0.7775		82.5	2272	
D 36 13C2 PFDoA										
615.00 > 570.00	4.642	4.632	0.010	1.316	819278	1.06		84.6	3171	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.653	4.632	0.021	1.002	647064	0.9780	Target=6.31	97.8	216	
613.00 > 169.00	4.653	4.632	0.021	1.002	99486		6.50(3.15-9.46)		1223	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.662	4.653	0.009	1.121	28567	0.8972		93.1	668	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.822	4.810	0.012	1.253	89230	0.6839	Target=0.45	70.7	1426	
699.00 > 99.00	4.822	4.810	0.012	1.253	204678		0.44(0.23-0.68)		1845	
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.855	4.845	0.010	1.046	528108	0.9260	Target=4.61	92.6	252	M
663.00 > 169.00	4.855	4.845	0.010	1.046	121125		4.36(2.31-6.92)		1186	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.034	0.019	1.432	664273	1.09		87.5	3581	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.034	0.019	1.000	85446	0.9356	Target=1.00	93.6	1107	
713.00 > 219.00	5.043	5.034	0.009	0.998	86305		0.99(0.50-1.51)		1185	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.394	5.383	0.011	1.529	773391	1.25		100	2909	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.394	5.383	0.011	1.000	511807	0.8747	Target=4.32	87.5	337	
813.00 > 169.00	5.394	5.383	0.011	1.000	126419		4.05(2.16-6.48)		1536	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.710	0.010	1.060	465293	0.8883	Target=3.72	88.8	374	
913.00 > 169.00	5.720	5.710	0.010	1.060	116613		3.99(1.86-5.58)		827	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Report Date: 12-Aug-2021 12:32:10 Chrom Revision: 2.3 13-May-2021 07:57:40

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d

Injection Date: 11-Aug-2021 14:16:42 Instrument ID: LC812

Lims ID: 480-188016-A-6-C MSD

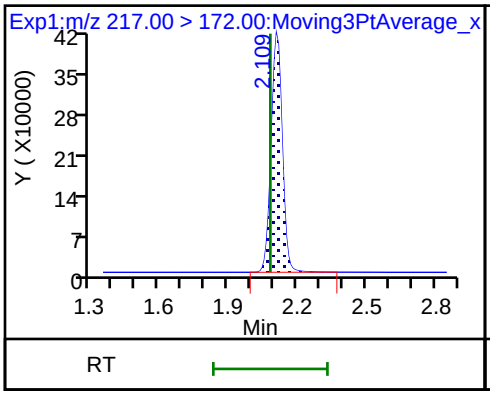
Client ID: MW-86-1SH

Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12

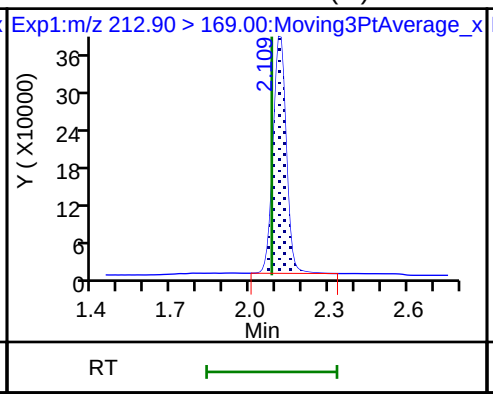
Injection Vol: 20.0 ul Dil. Factor: 1.0000

Method: PFC_LC812 Limit Group: LC_PFC_ICAL

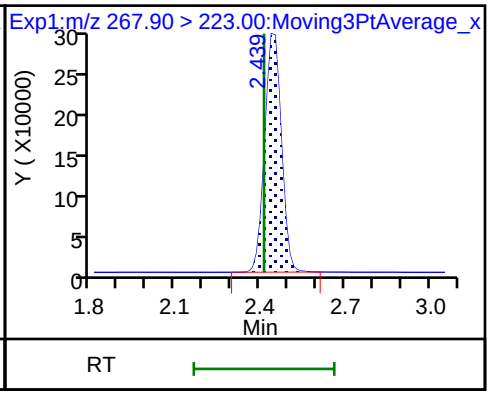
D 1 13C4 PFBA



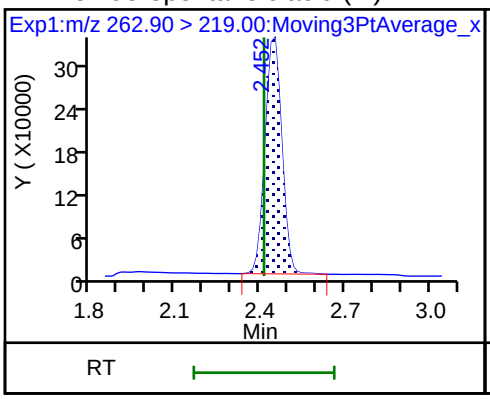
2 Perfluorobutanoic acid (M)



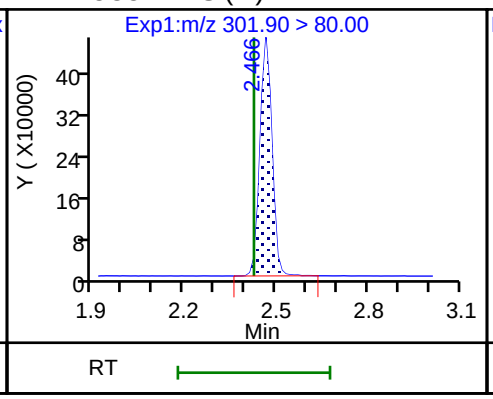
D 3 13C5 PFPeA



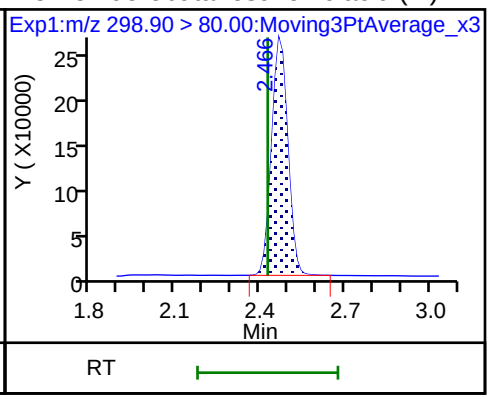
4 Perfluoropentanoic acid (M)



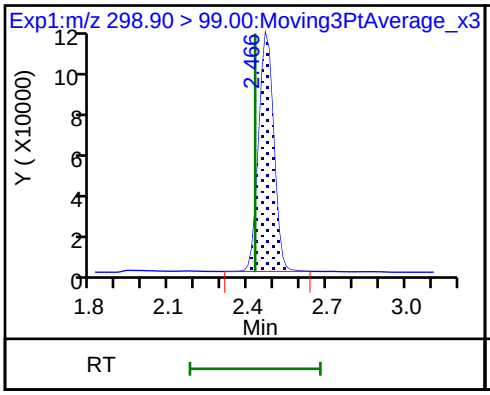
D 47 13C3 PFBS (M)



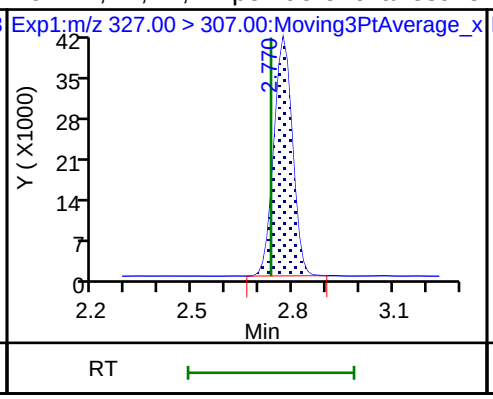
5 Perfluorobutanesulfonic acid (M)



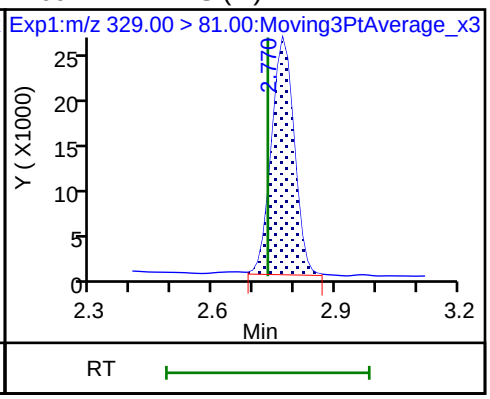
5 Perfluorobutanesulfonic acid



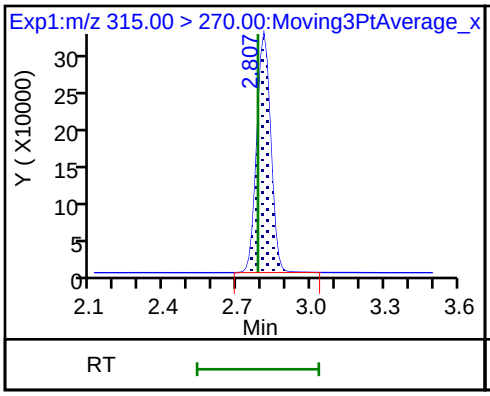
61 1H,1H,2H,2H-perfluorohexanesulfo



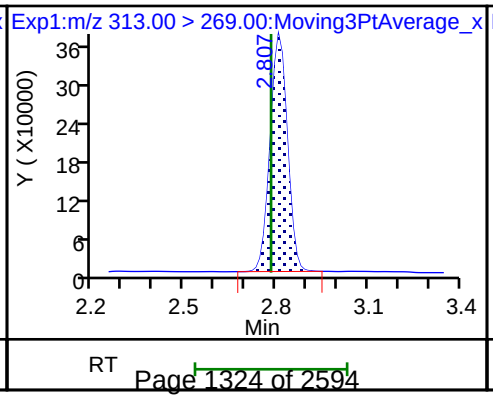
D 60 M2-4:2 FTS (M)



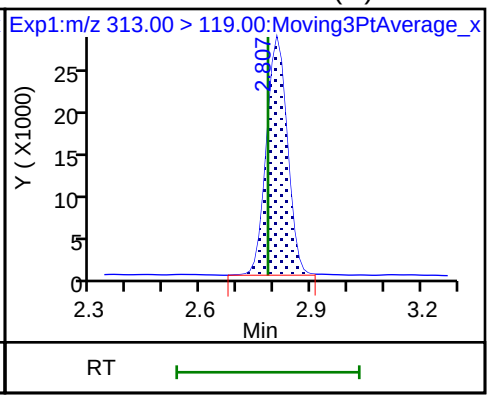
D 7 13C2 PFHxA



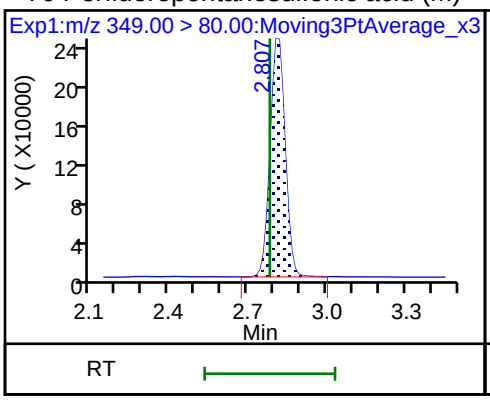
6 Perfluorohexanoic acid



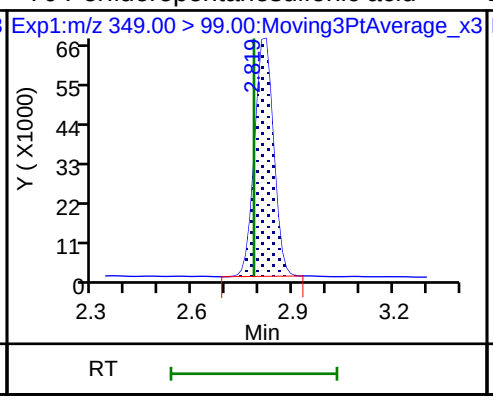
6 Perfluorohexanoic acid (M)



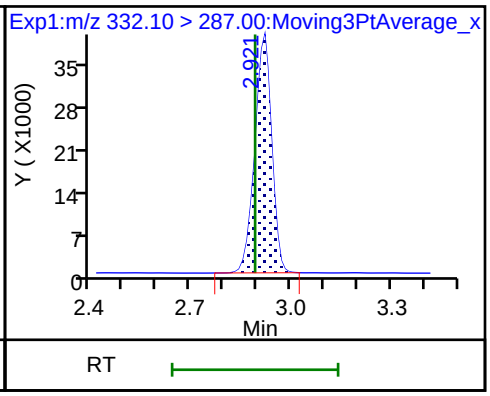
70 Perfluoropentanesulfonic acid (M)



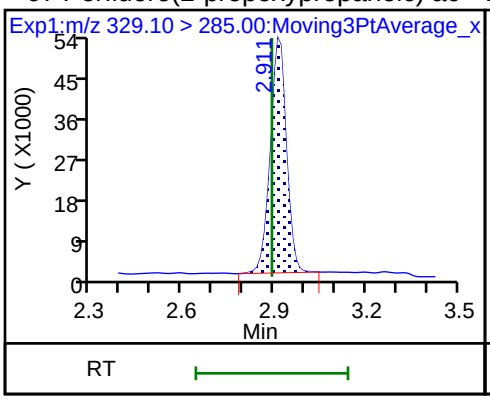
70 Perfluoropentanesulfonic acid



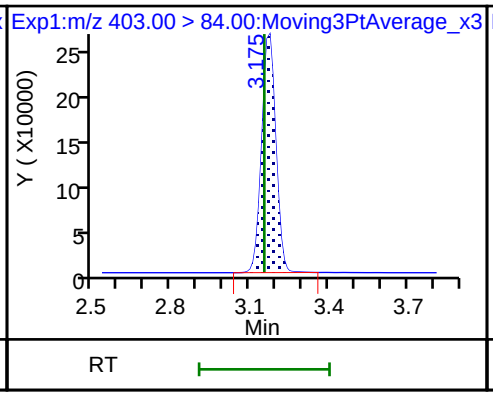
D 64 13C3 HFPO-DA



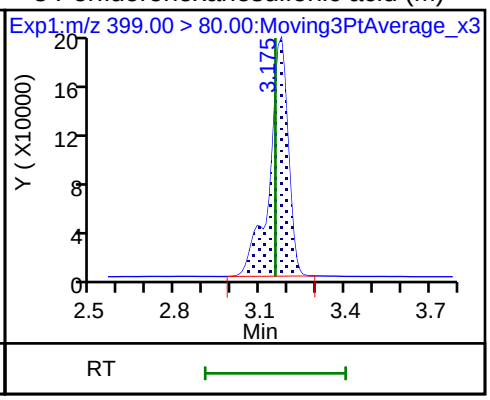
67 Perfluoro(2-propoxypropanoic) ac



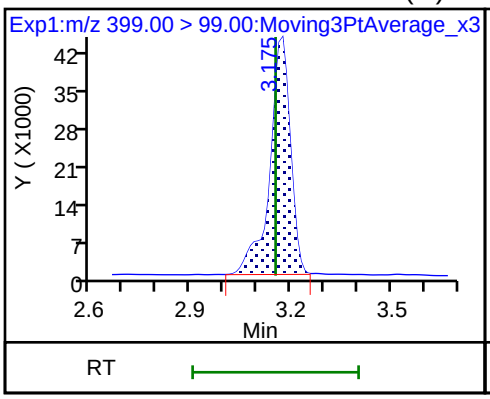
D 11 18O2 PFHxS



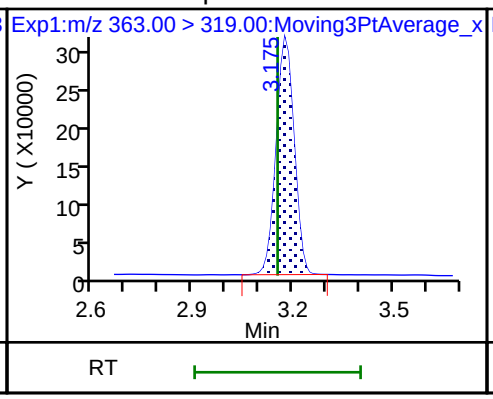
8 Perfluorohexanesulfonic acid (M)



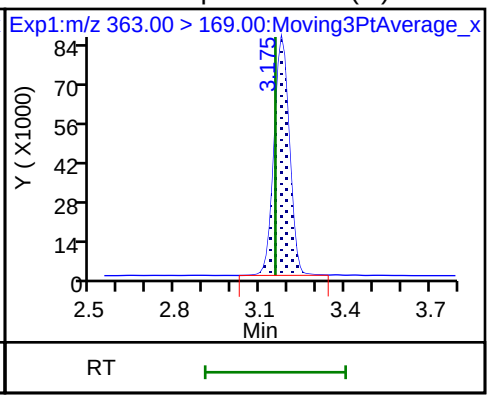
8 Perfluorohexanesulfonic acid (M)



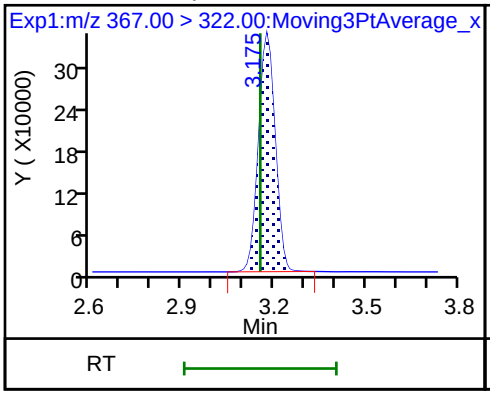
10 Perfluoroheptanoic acid



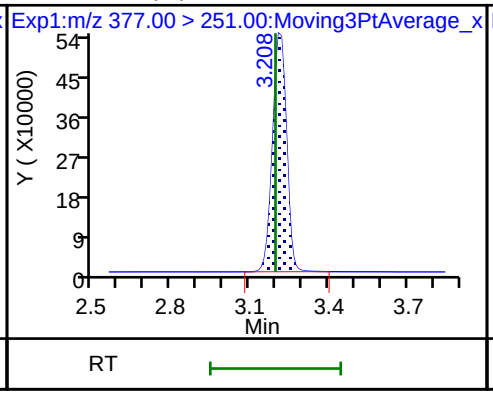
10 Perfluoroheptanoic acid (M)



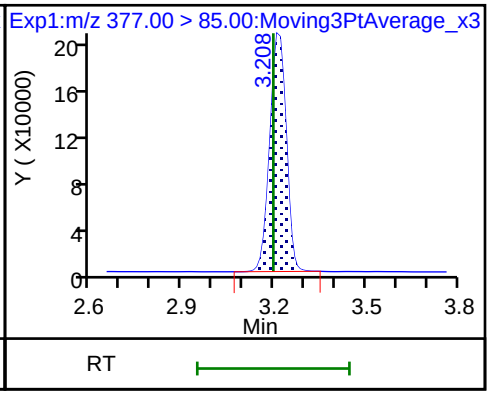
D 9 13C4 PFHpA



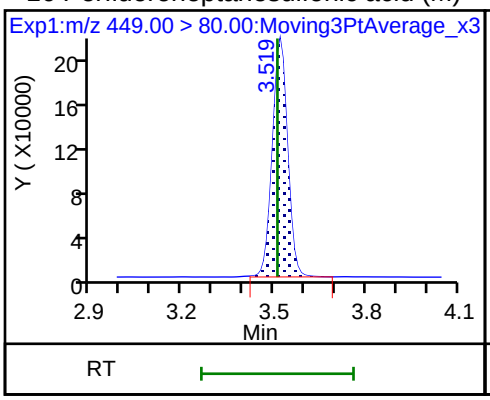
77 DONA (M)



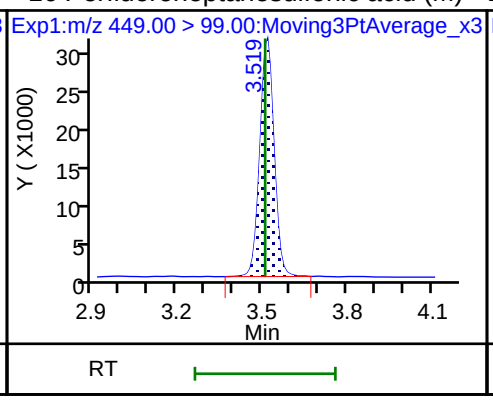
77 DONA



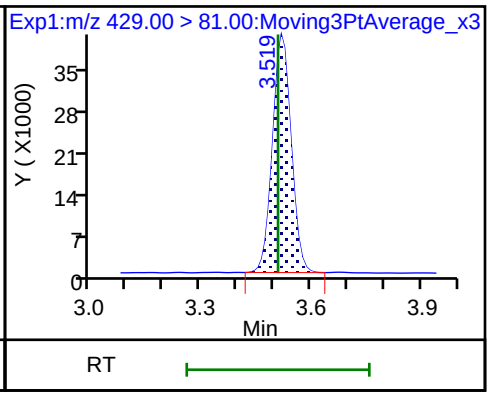
16 Perfluoroheptanesulfonic acid (M)



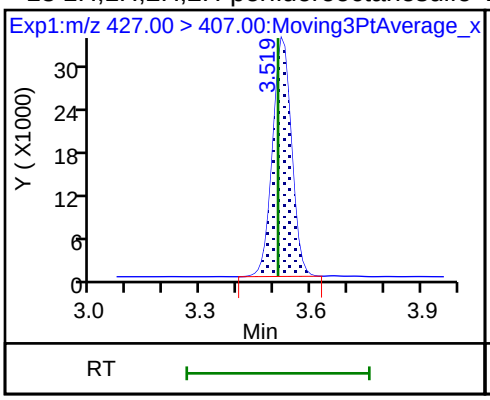
16 Perfluoroheptanesulfonic acid (M)



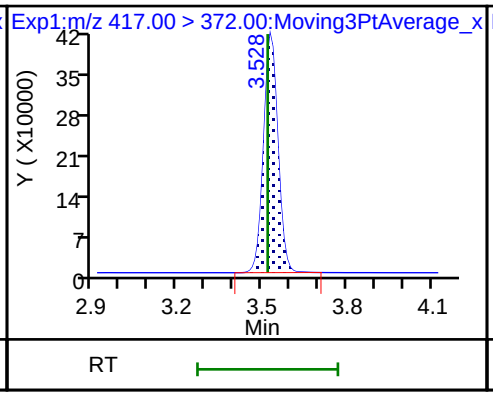
D 12 M2-6:2 FTS



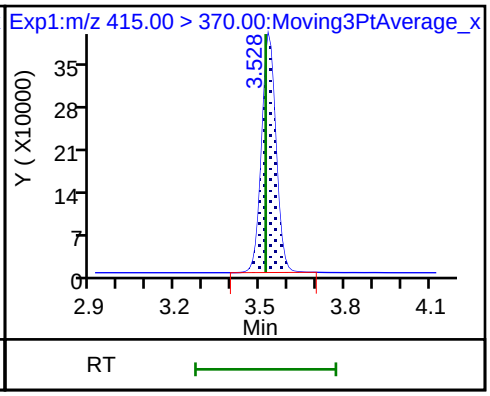
13 1H,1H,2H,2H-perfluorooctanesulfo



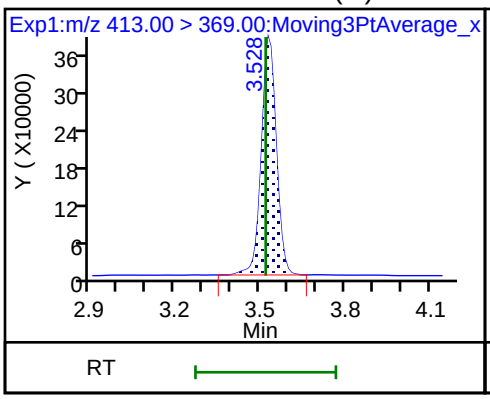
D 14 13C4 PFOA



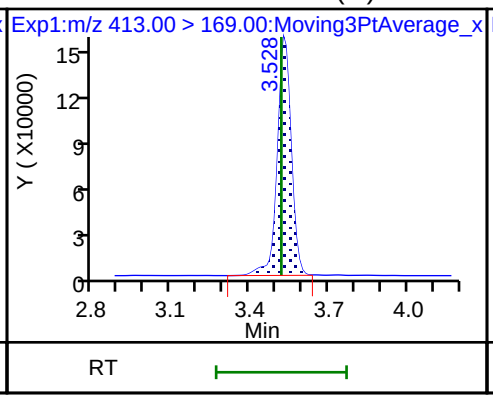
* 62 13C2 PFOA



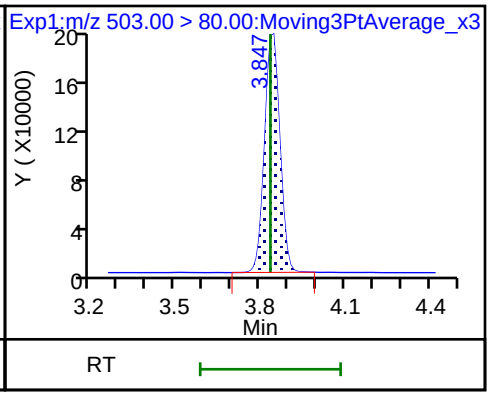
15 Perfluorooctanoic acid (M)



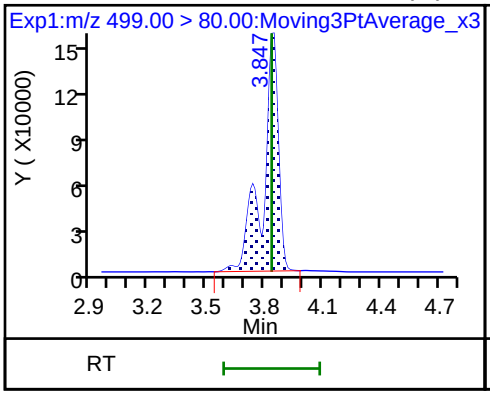
15 Perfluorooctanoic acid (M)



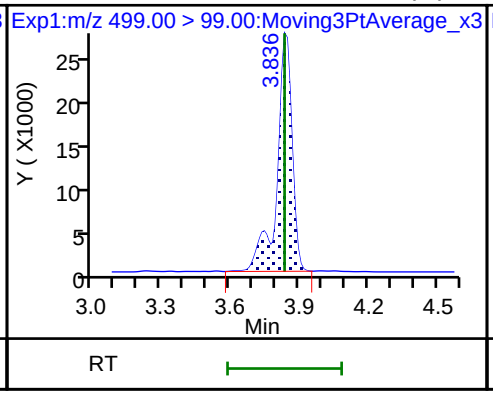
D 18 13C4 PFOS



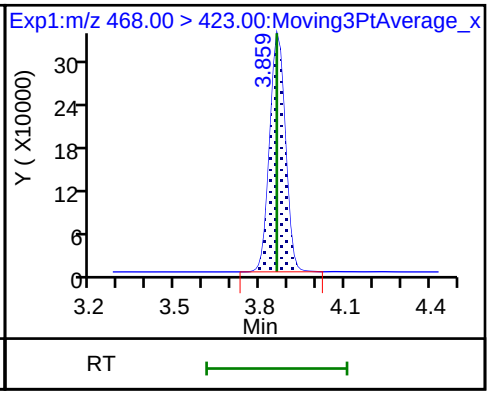
17 Perfluorooctanesulfonic acid (M)



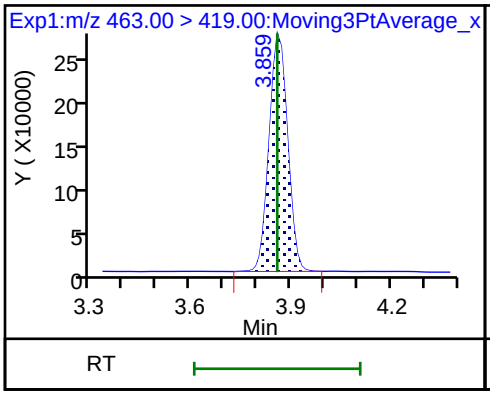
17 Perfluorooctanesulfonic acid (M)



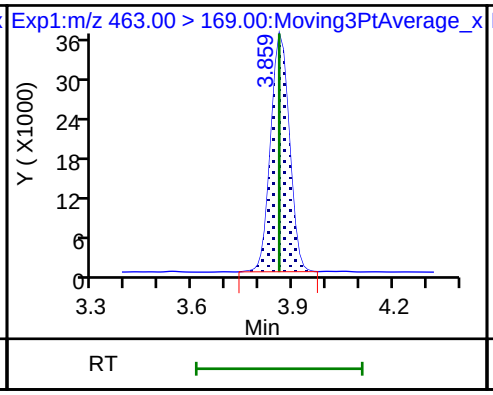
D 19 13C5 PFNA



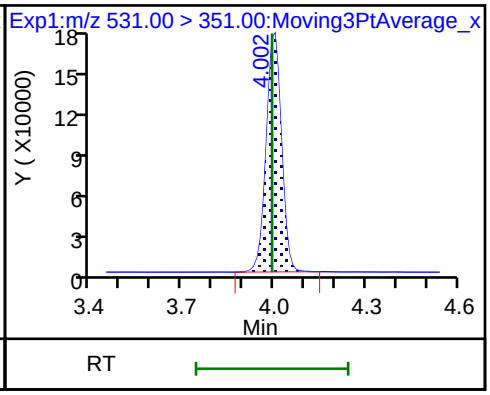
20 Perfluorononanoic acid



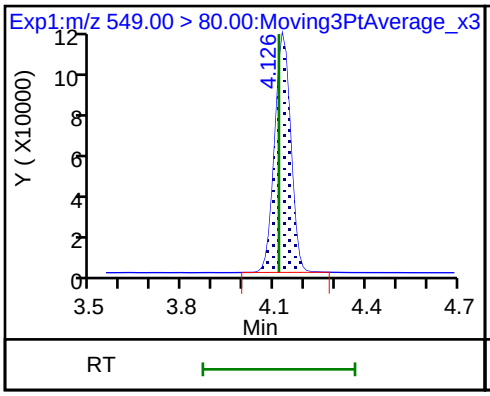
20 Perfluorononanoic acid



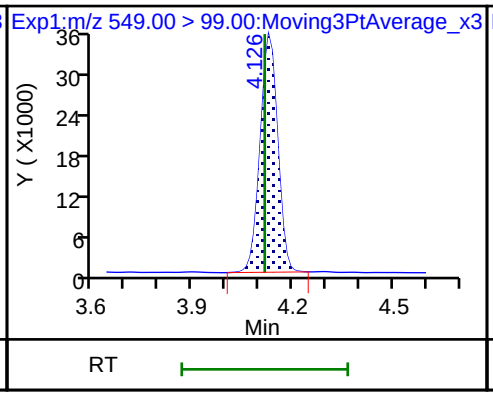
69 9-Chlorohexadecafluoro-3-oxanona



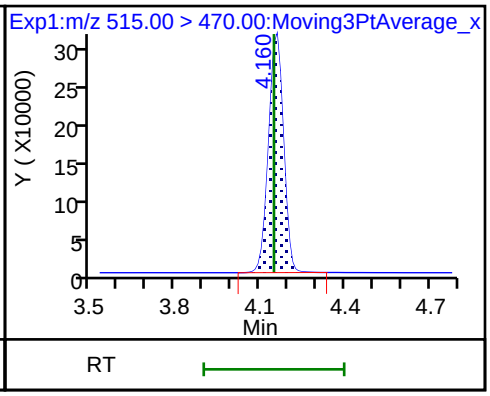
68 Perfluorononanesulfonic acid



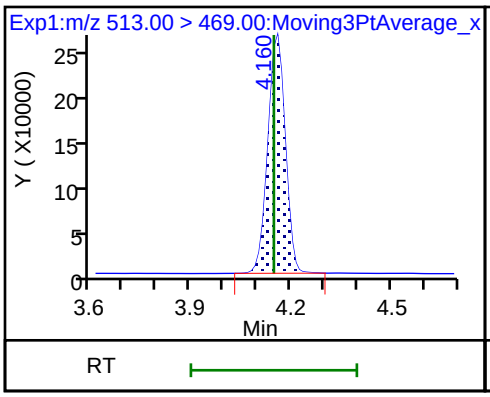
68 Perfluorononanesulfonic acid



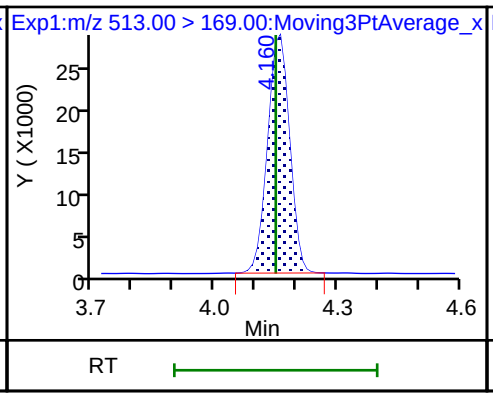
D 23 13C2 PFDA



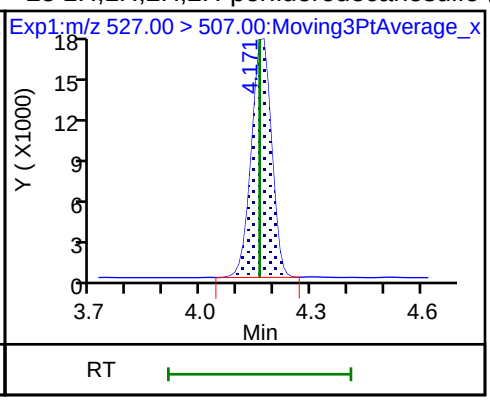
24 Perfluorodecanoic acid



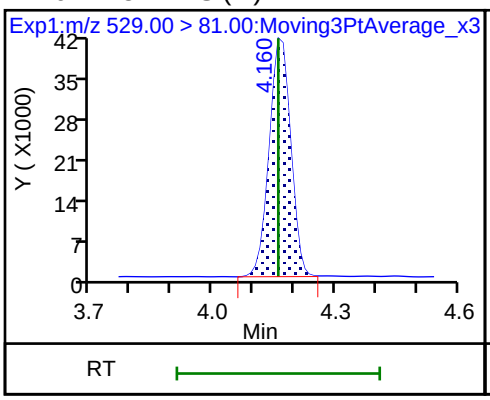
24 Perfluorodecanoic acid



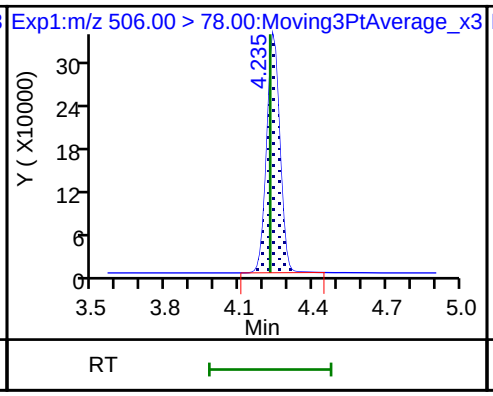
25 1H,1H,2H,2H-perfluorodecanesulfo (M)



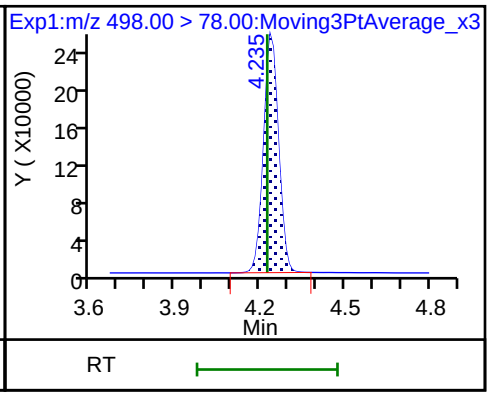
D 26 M2-8:2 FTS (M)



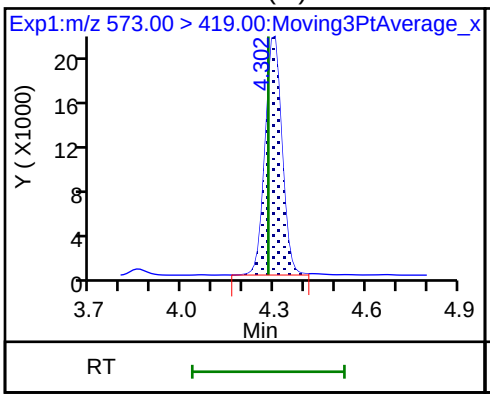
D 21 13C8 FOSA



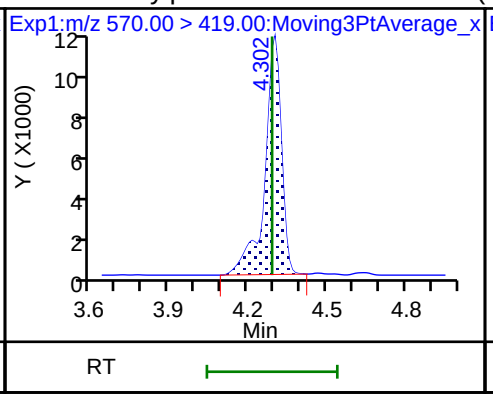
22 Perfluorooctanesulfonamide



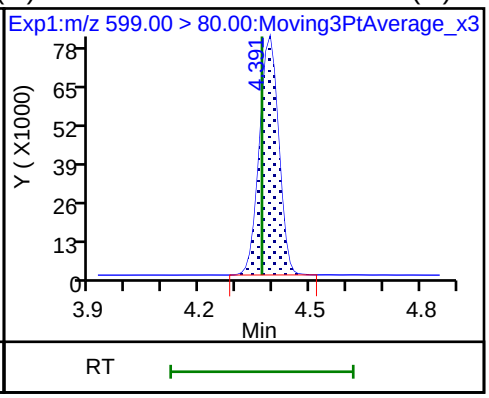
D 27 d3-NMeFOSAA (M)



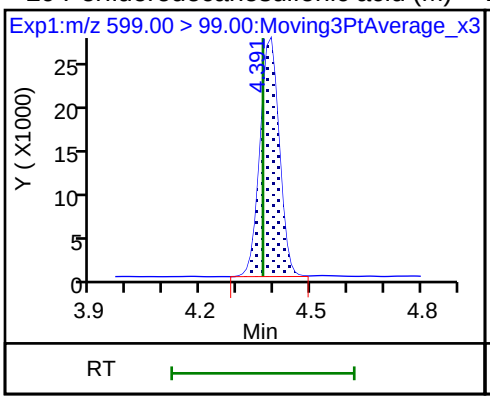
28 N-methylperfluorooctanesulfonami (M)



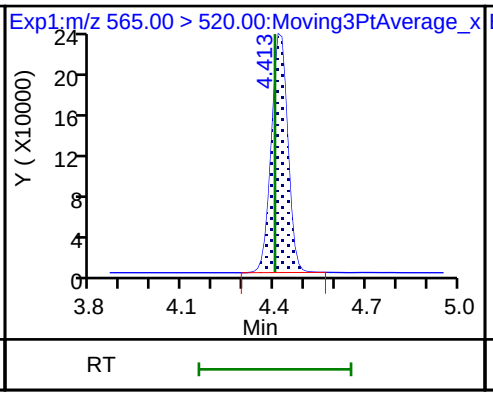
29 Perfluorodecanesulfonic acid (M)



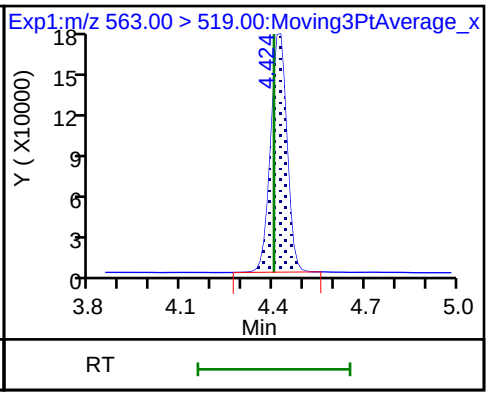
29 Perfluorodecanesulfonic acid (M)



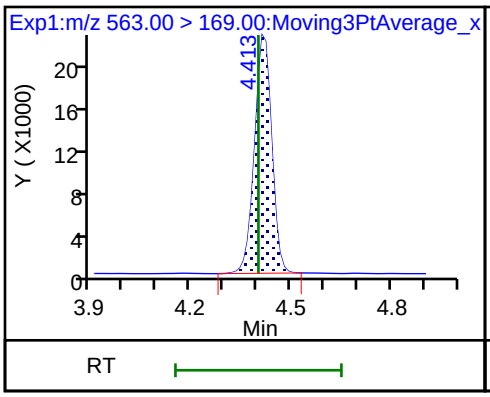
D 30 13C2 PFUnA



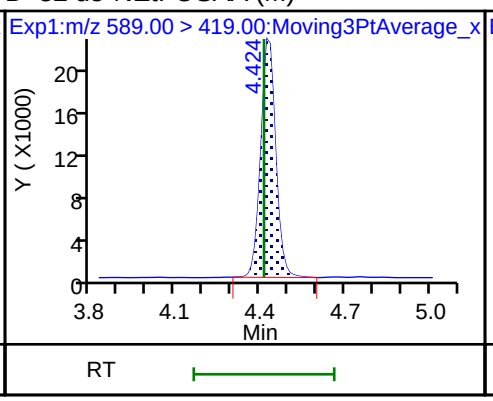
31 Perfluoroundecanoic acid



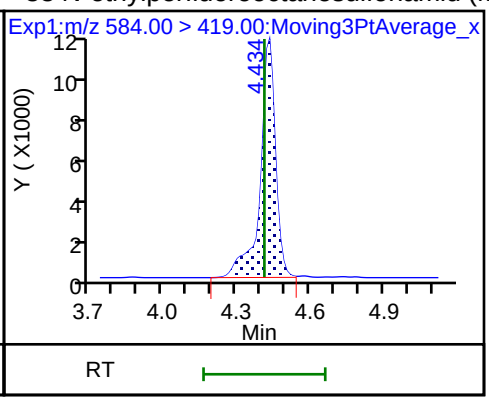
31 Perfluoroundecanoic acid



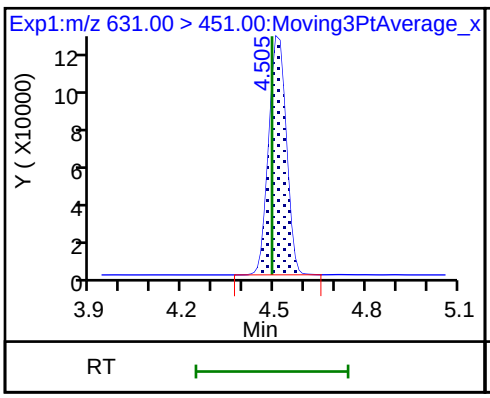
D 32 d5-NEtFOSAA (M)



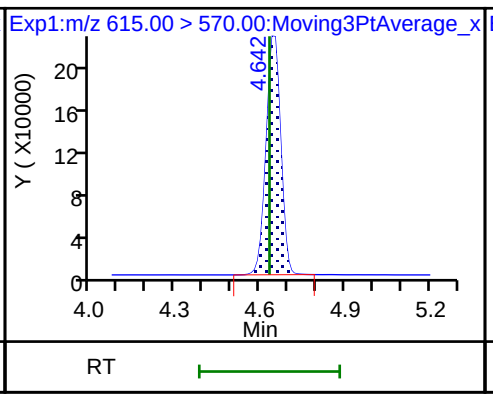
33 N-ethylperfluorooctanesulfonamid (M)



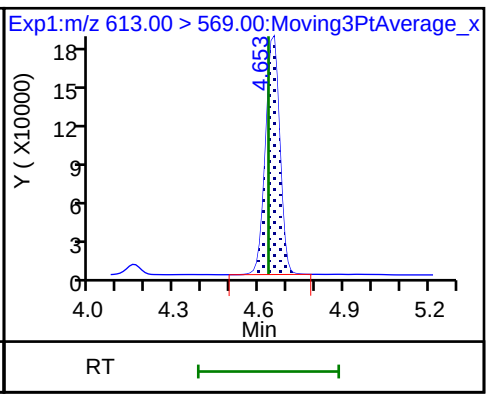
66 11-Chloroeicosafluoro-3-oxaundec



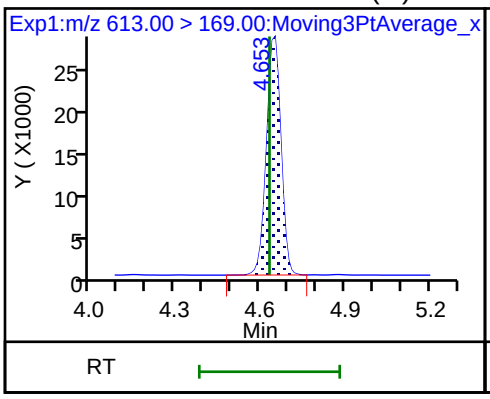
D 36 13C2 PFDoA



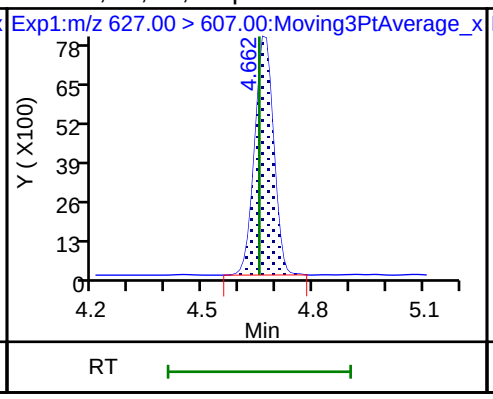
37 Perfluorododecanoic acid



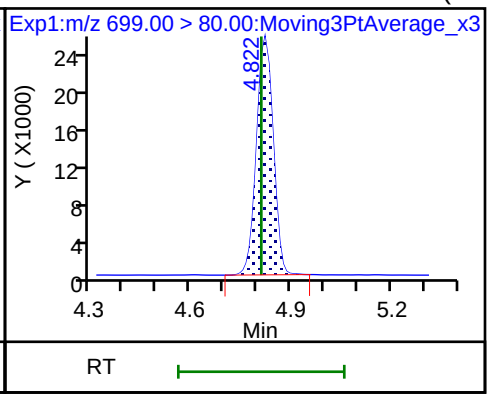
37 Perfluorododecanoic acid (M)



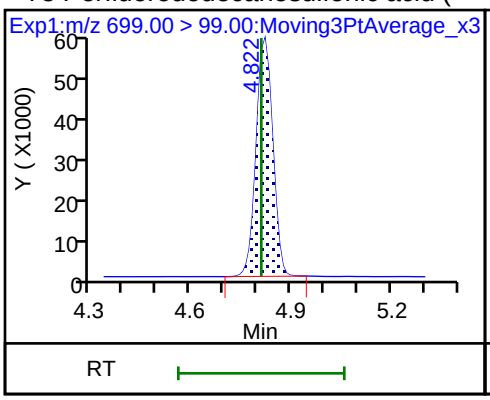
74 1H,1H,2H,2H-perfluorododecanesul



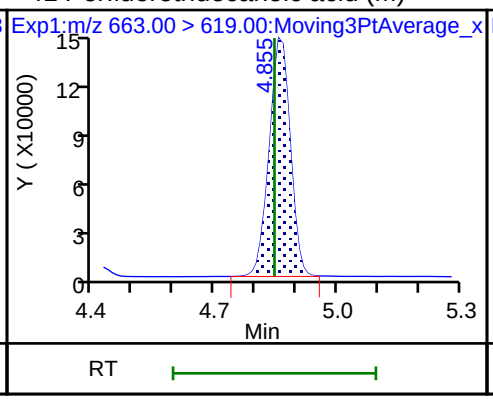
75 Perfluorododecanesulfonic acid (



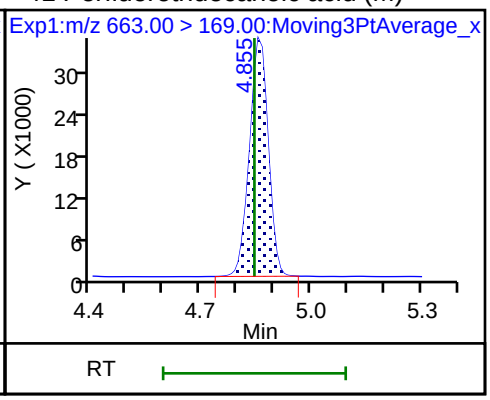
75 Perfluorododecanesulfonic acid (



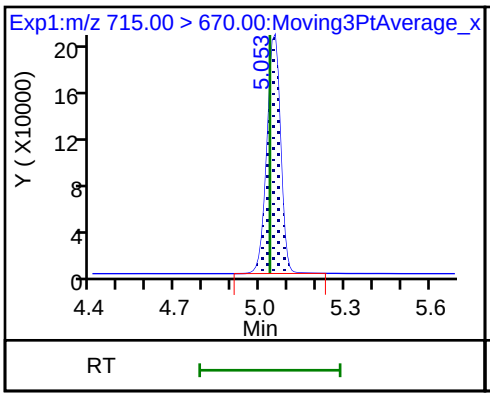
41 Perfluorotridecanoic acid (M)



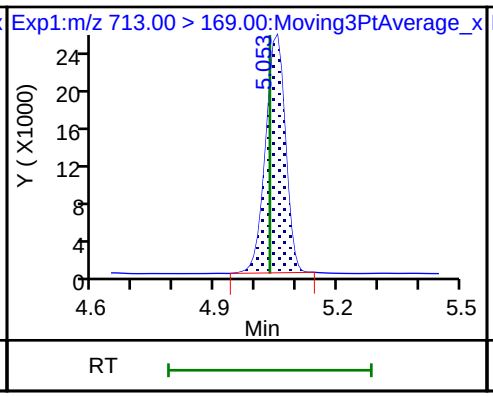
41 Perfluorotridecanoic acid (M)



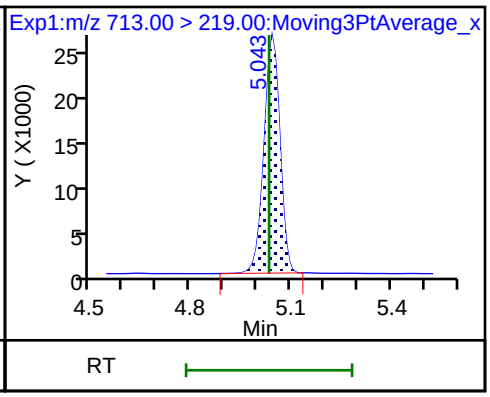
D 43 13C2 PFTeDA



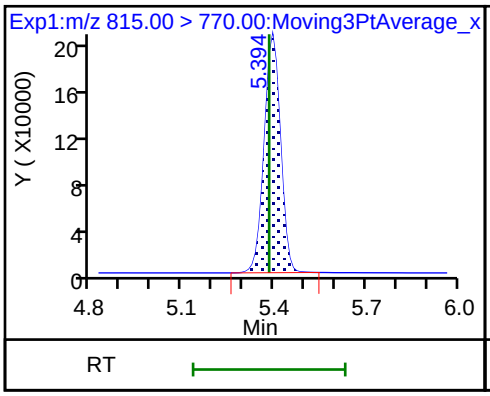
42 Perfluorotetradecanoic acid



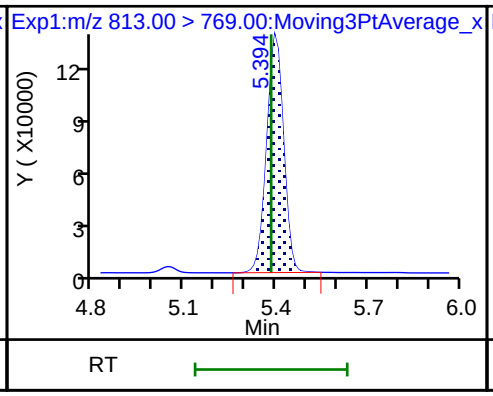
42 Perfluorotetradecanoic acid



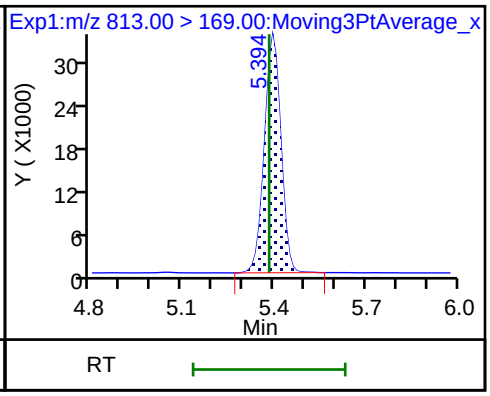
D 44 13C2 PFHxDA



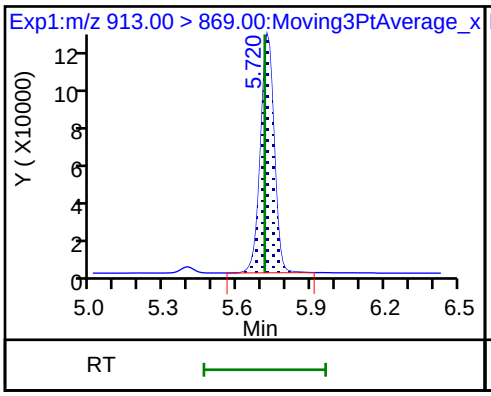
45 Perfluorohexadecanoic acid



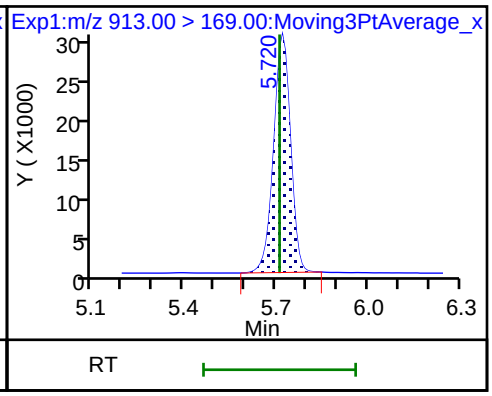
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

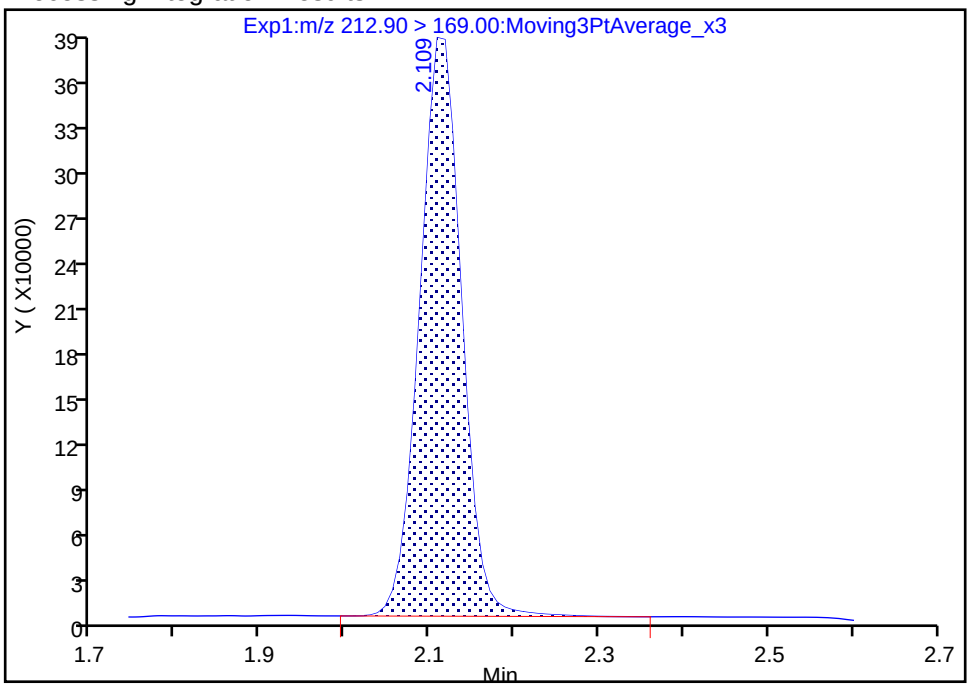
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

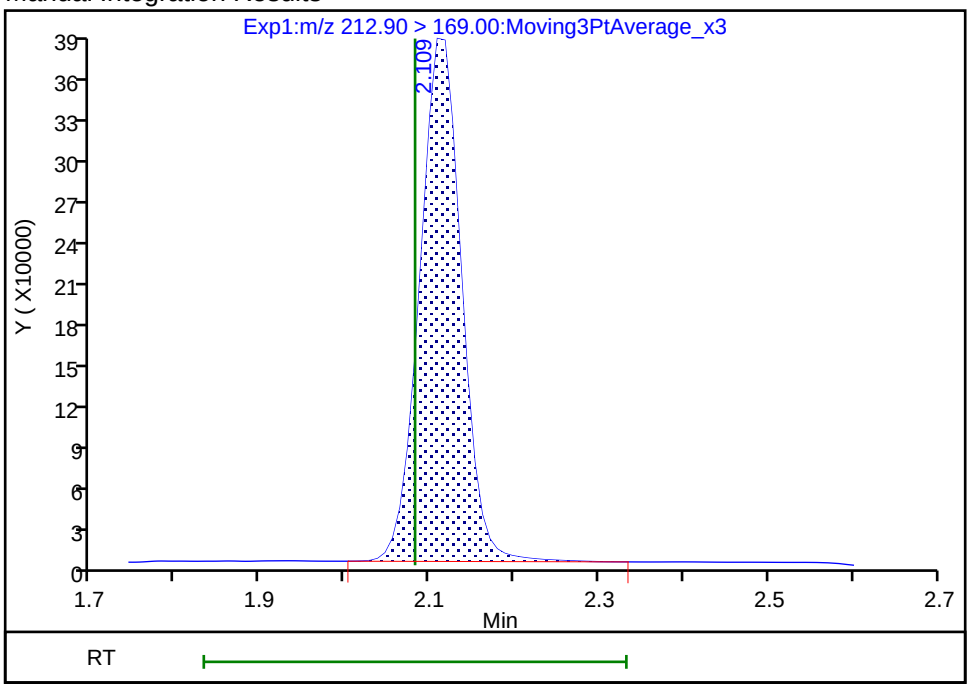
Processing Integration Results

RT: 2.11
Area: 1311160
Amount: 1.224444
Amount Units: ng/ml



Manual Integration Results

RT: 2.11
Area: 1310703
Amount: 1.224017
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:42:59

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

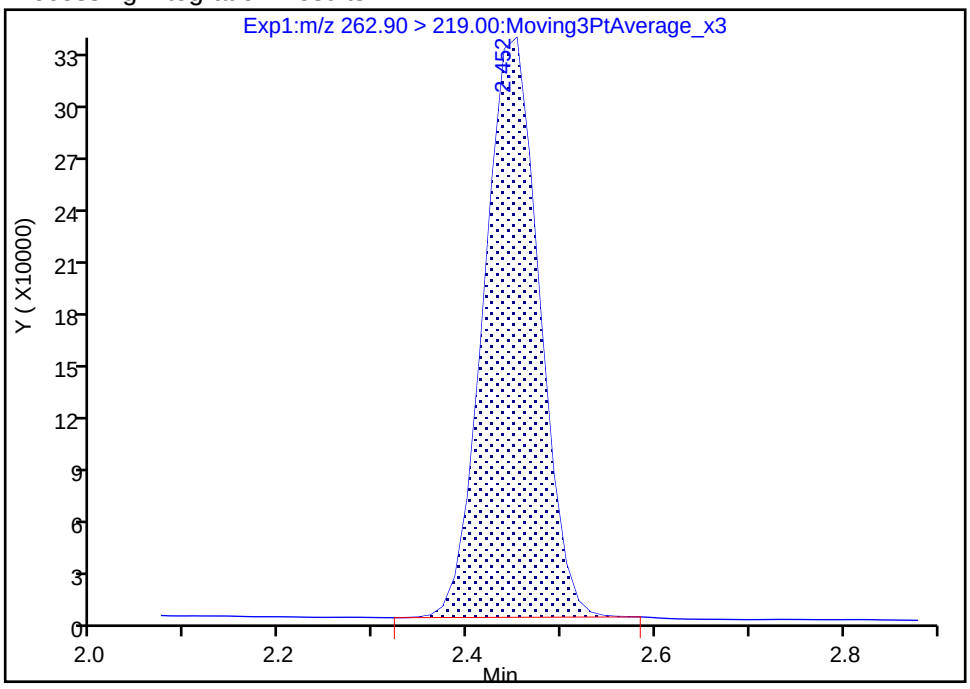
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Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

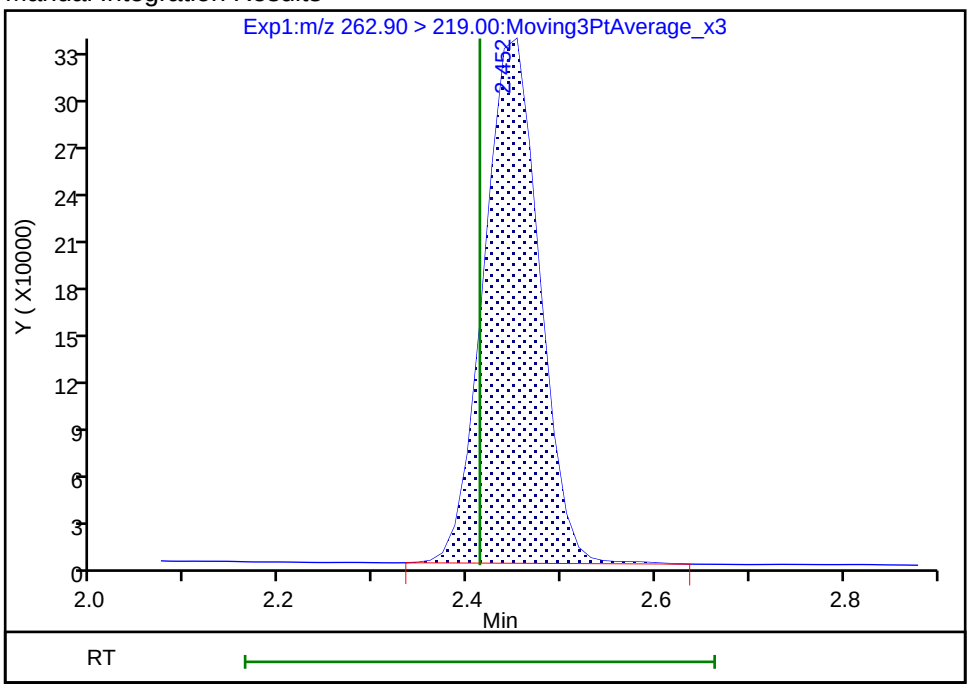
Processing Integration Results

RT: 2.45
Area: 1364400
Amount: 1.396813
Amount Units: ng/ml



Manual Integration Results

RT: 2.45
Area: 1374224
Amount: 1.406870
Amount Units: ng/ml



Reviewer: deannd, 12-Aug-2021 09:21:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

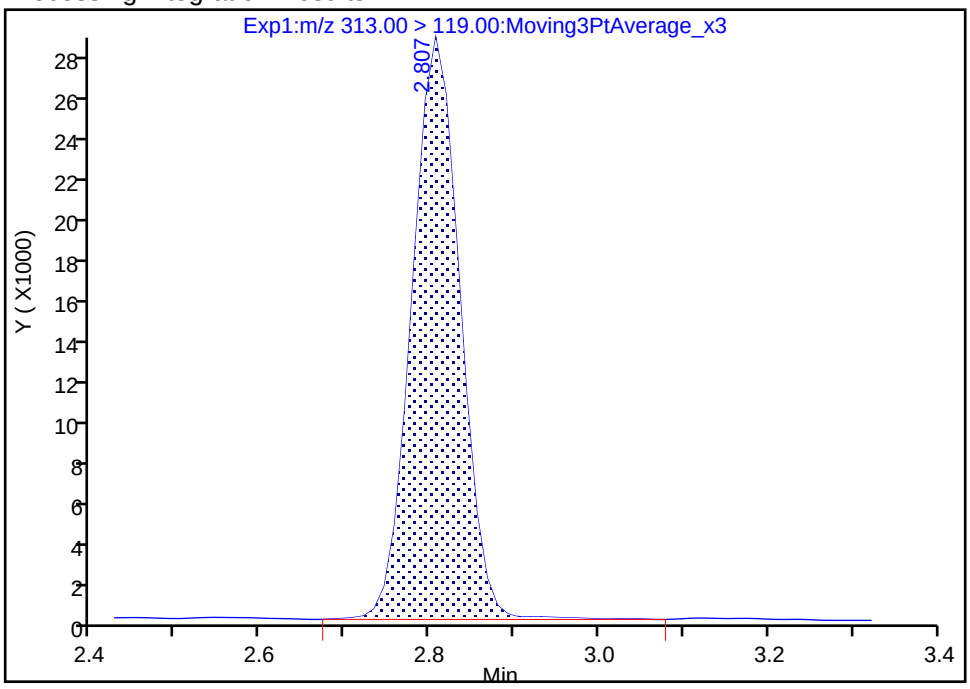
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Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

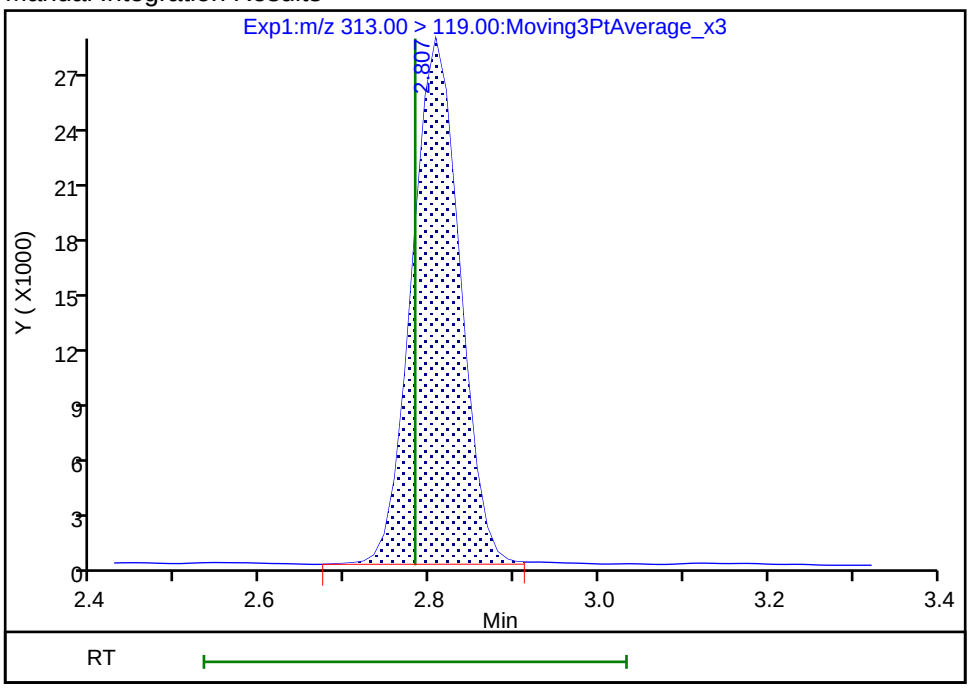
Processing Integration Results

RT: 2.81
Area: 113084
Amount: 1.413994
Amount Units: ng/ml



Manual Integration Results

RT: 2.81
Area: 112434
Amount: 1.413994
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:43:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

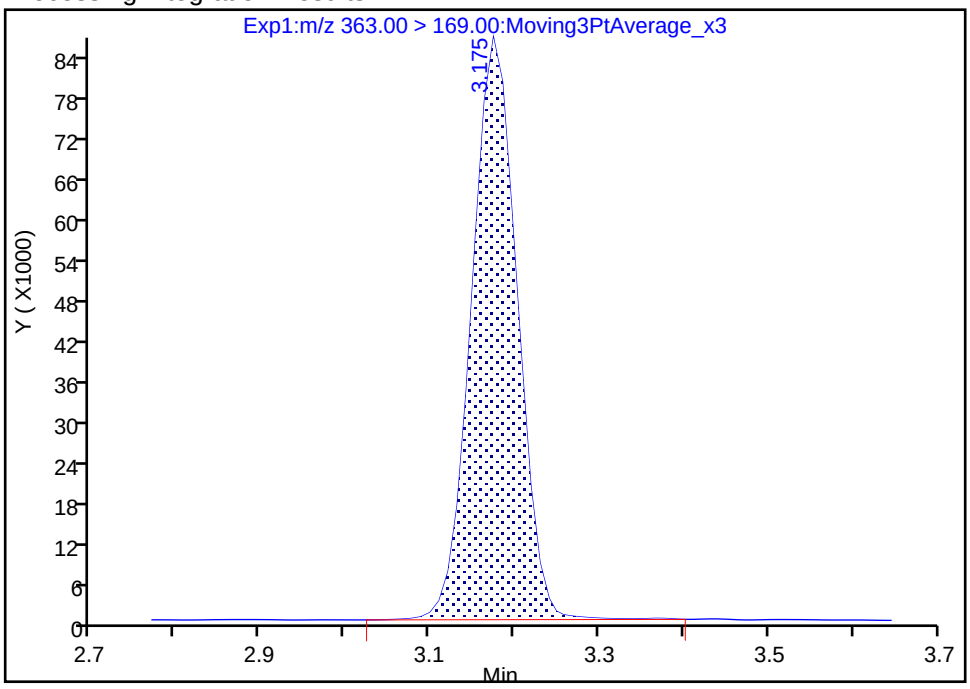
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Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

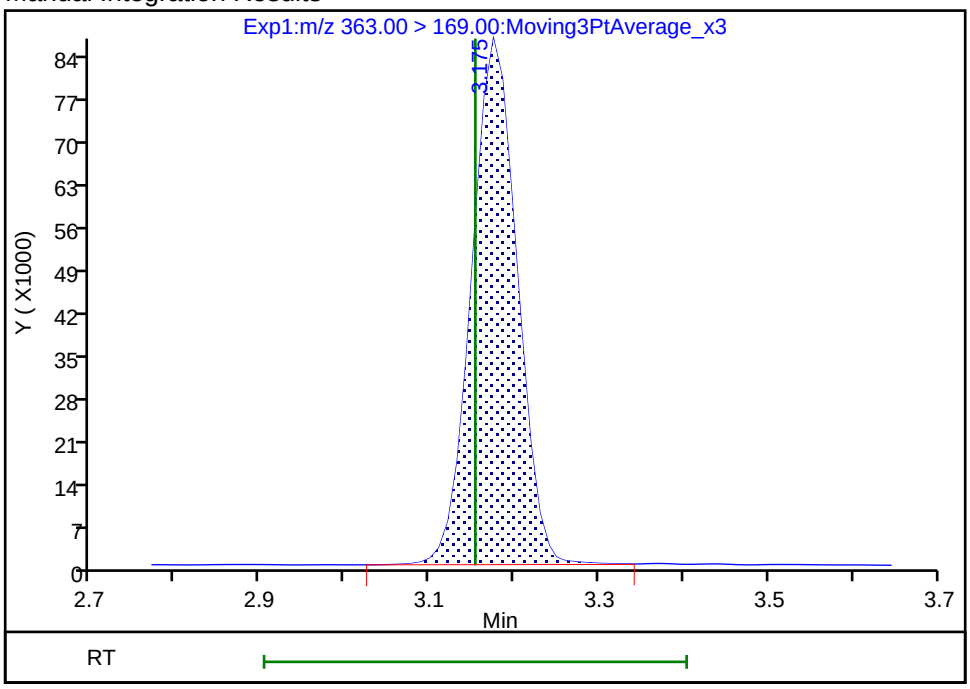
Processing Integration Results

RT: 3.17
Area: 324857
Amount: 1.091679
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 324511
Amount: 1.091679
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:44:21

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

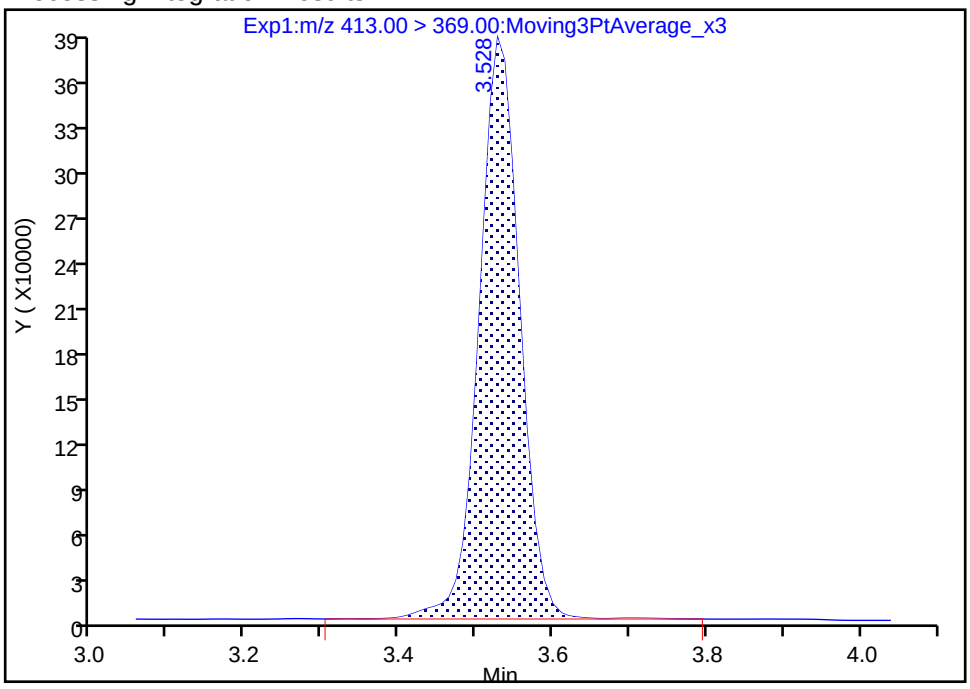
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Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

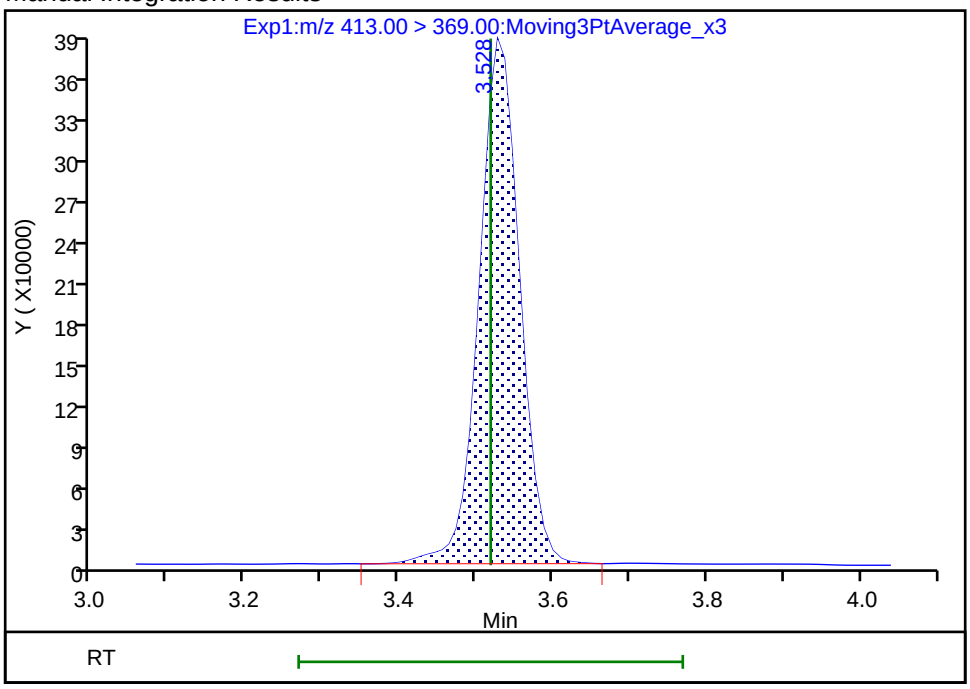
Processing Integration Results

RT: 3.53
Area: 1425753
Amount: 1.154536
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 1419080
Amount: 1.149133
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:45:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

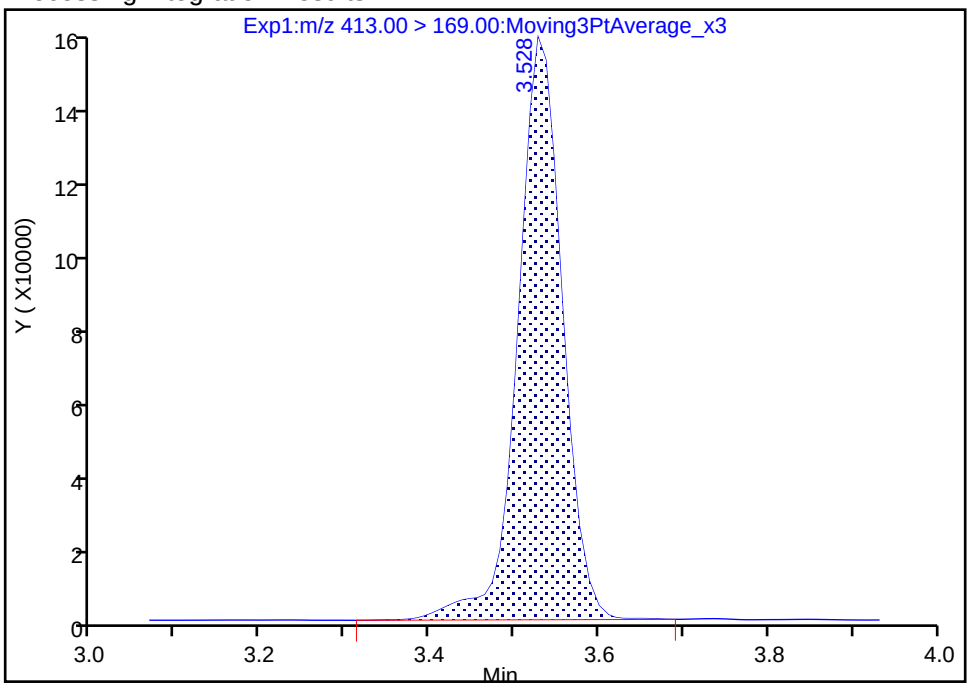
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

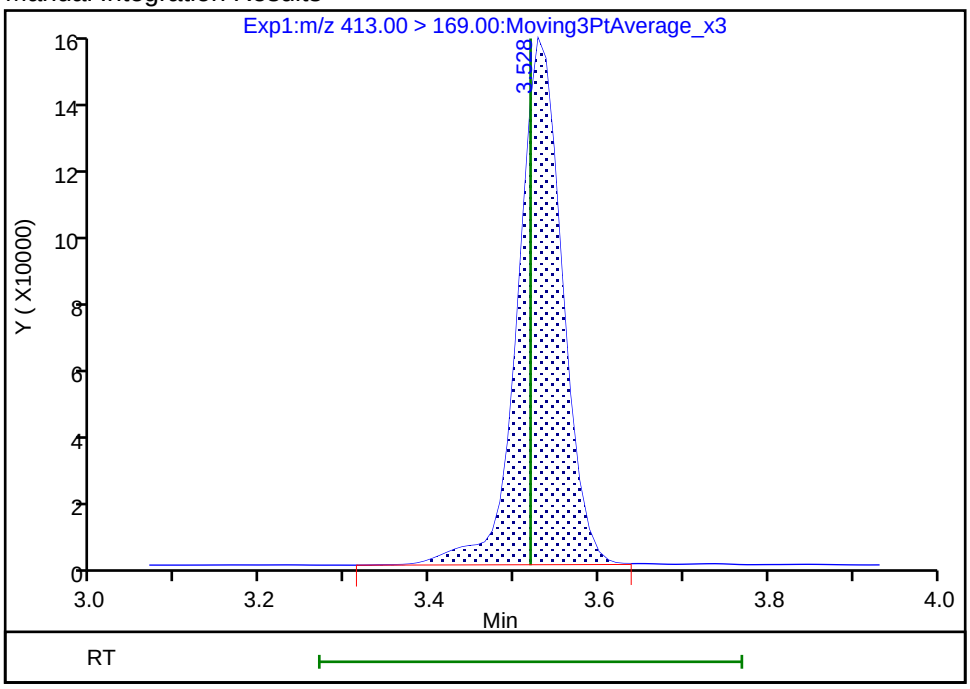
Processing Integration Results

RT: 3.53
Area: 569657
Amount: 1.154536
Amount Units: ng/ml



Manual Integration Results

RT: 3.53
Area: 569175
Amount: 1.149133
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:45:16

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

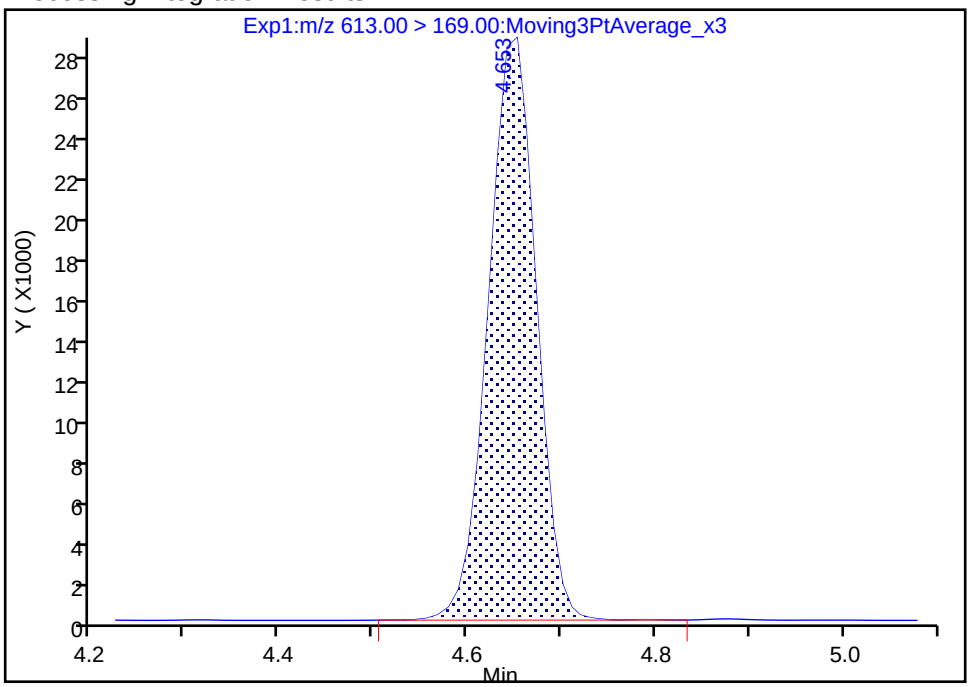
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Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

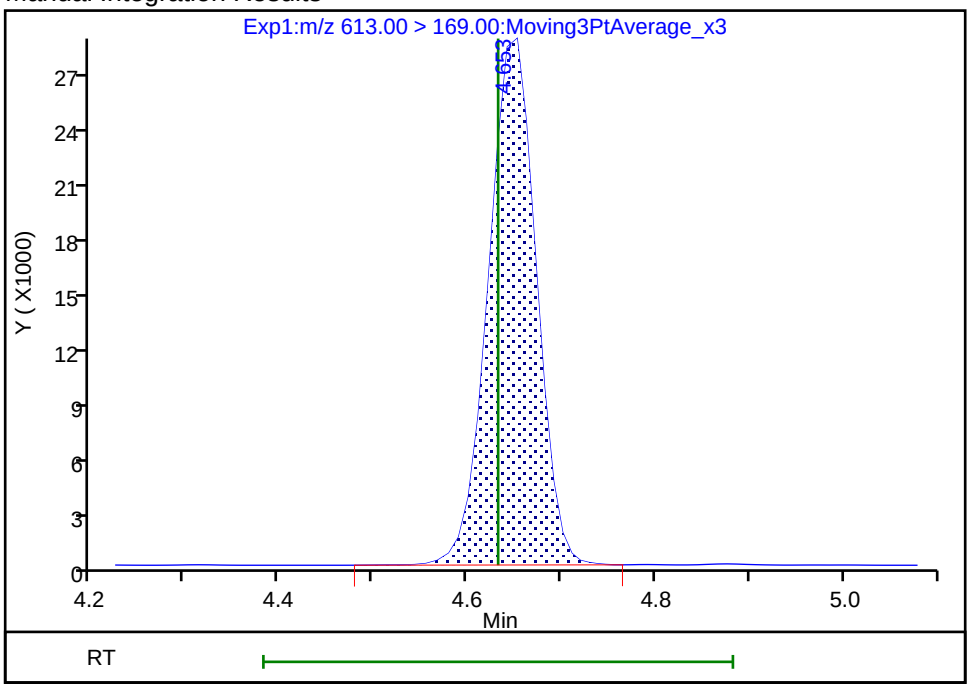
Processing Integration Results

RT: 4.65
Area: 99517
Amount: 0.978026
Amount Units: ng/ml



Manual Integration Results

RT: 4.65
Area: 99486
Amount: 0.978026
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:46:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

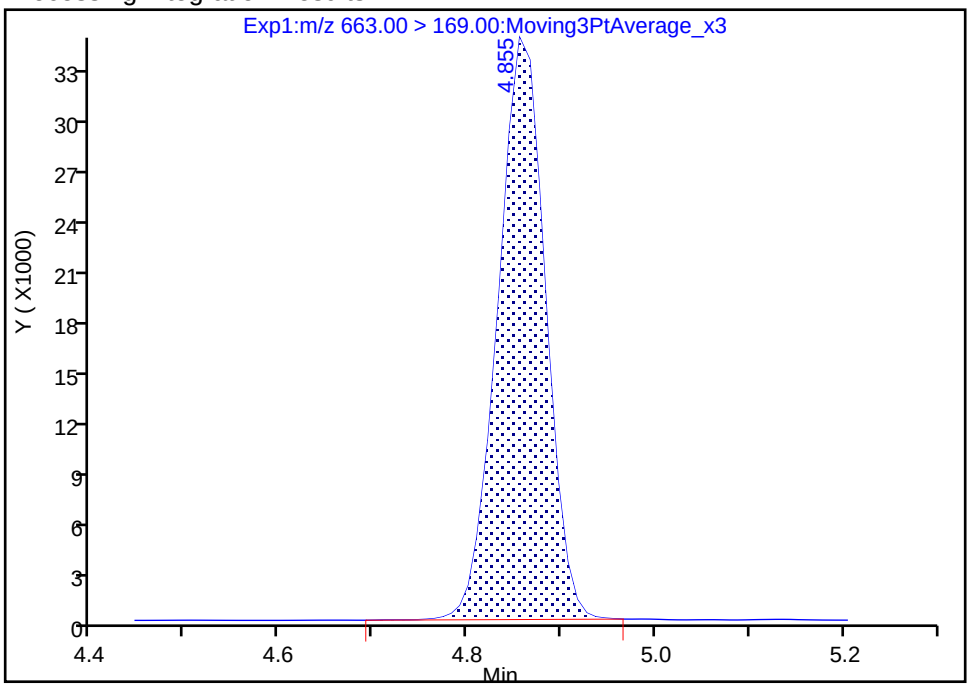
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Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

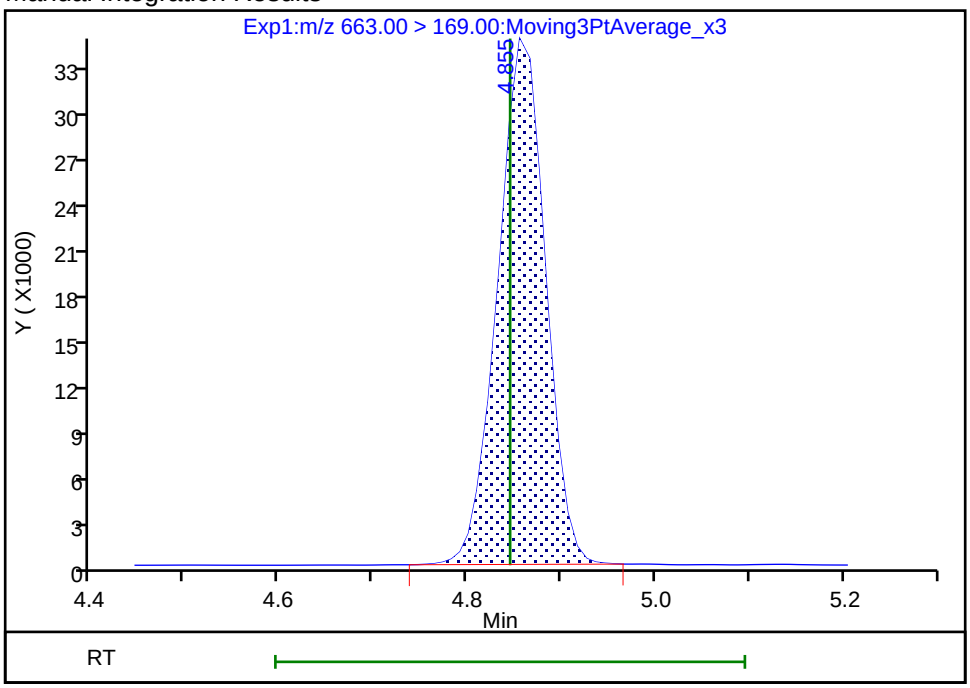
Processing Integration Results

RT: 4.86
Area: 121231
Amount: 0.927594
Amount Units: ng/ml



Manual Integration Results

RT: 4.86
Area: 121125
Amount: 0.925982
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:47:08

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

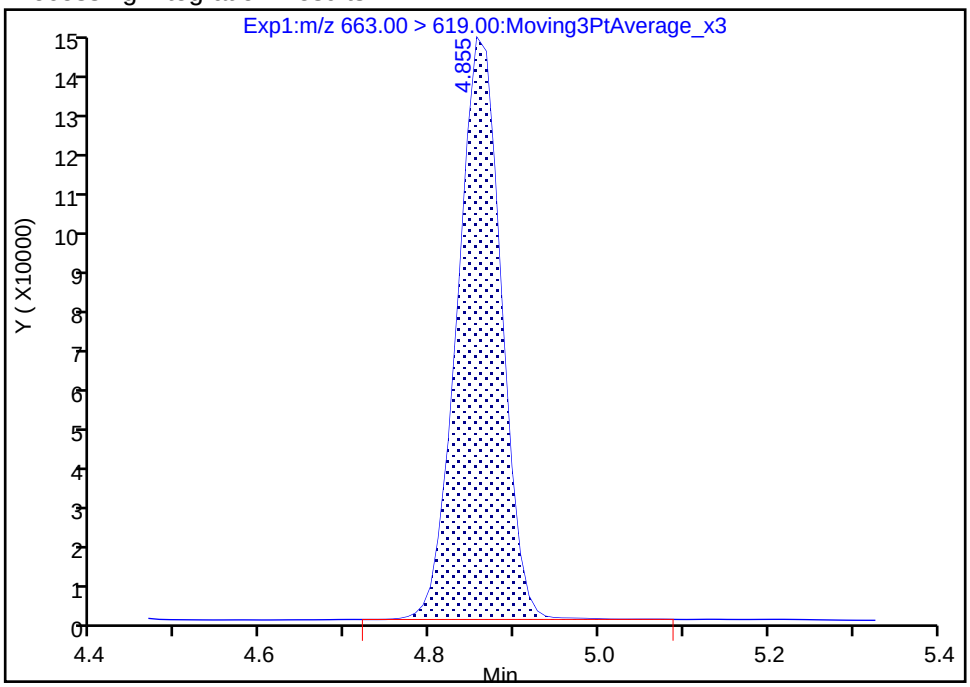
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Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

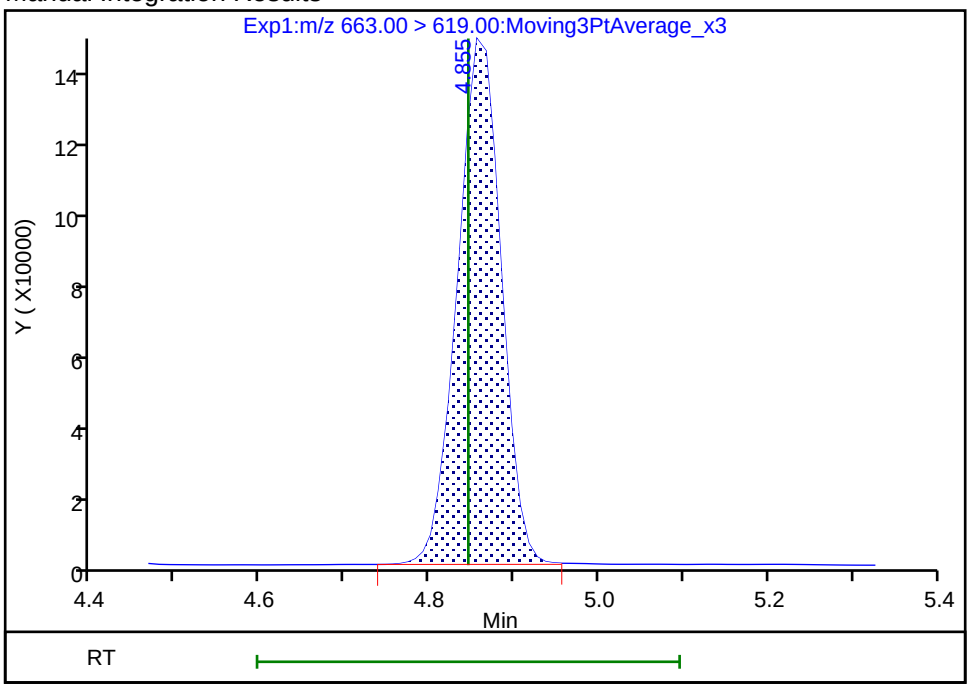
Processing Integration Results

RT: 4.86
Area: 529027
Amount: 0.927594
Amount Units: ng/ml



Manual Integration Results

RT: 4.86
Area: 528108
Amount: 0.925982
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:47:11

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

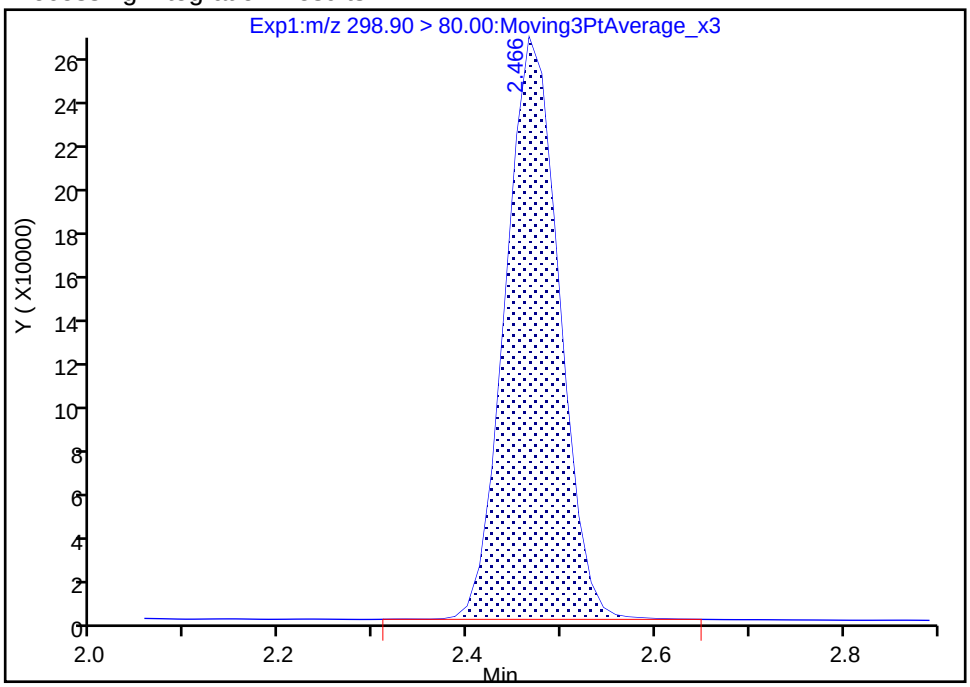
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Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

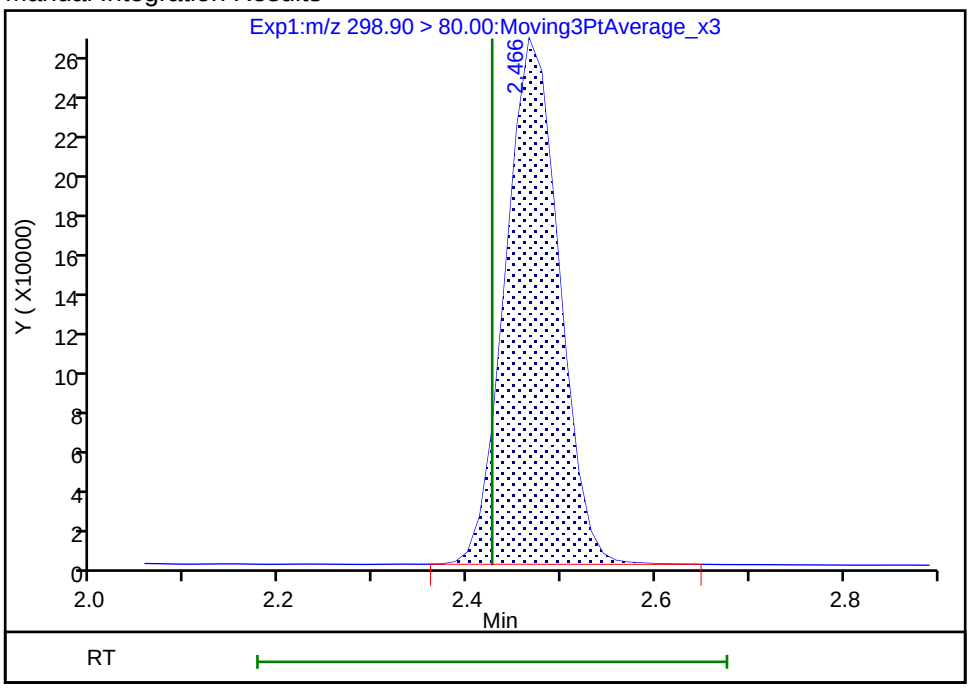
Processing Integration Results

RT: 2.47
Area: 1055403
Amount: 0.910539
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1055046
Amount: 0.910231
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:43:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

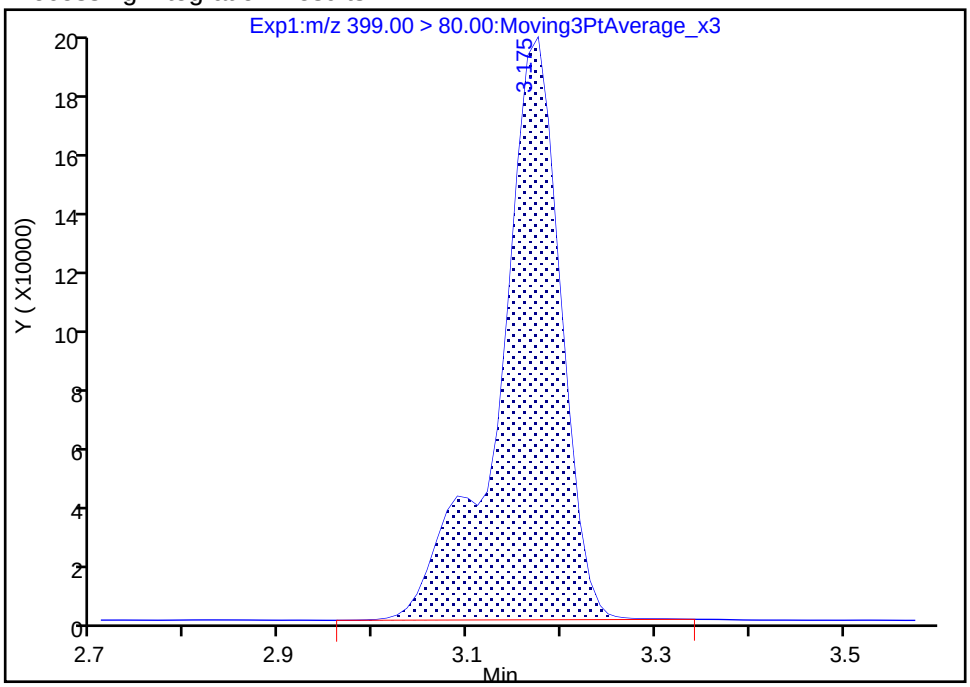
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

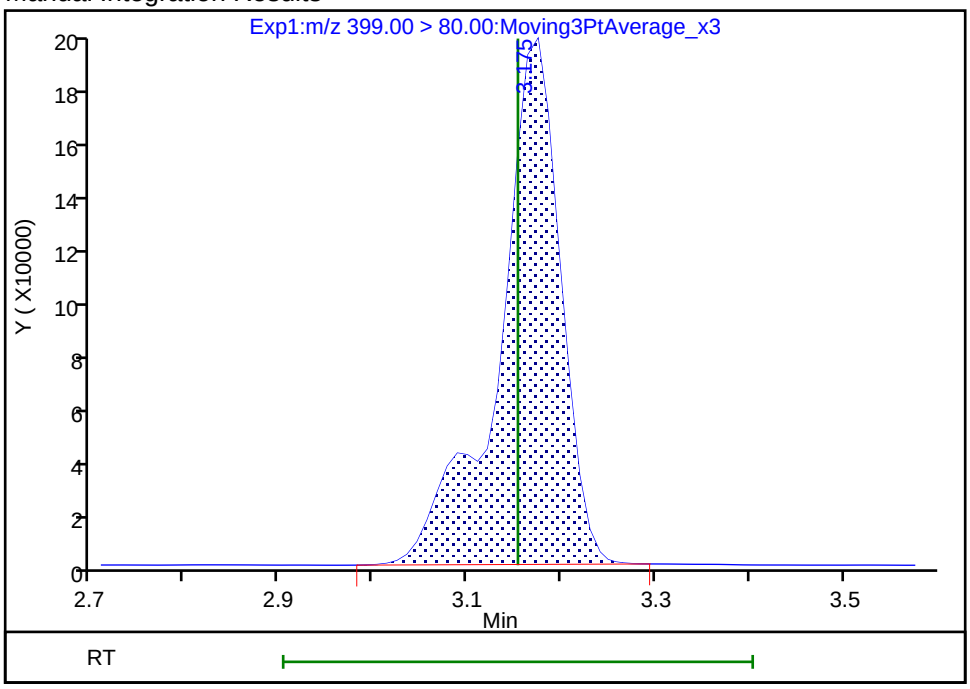
Processing Integration Results

RT: 3.17
Area: 872770
Amount: 0.909039
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 870731
Amount: 0.906915
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:43:51

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

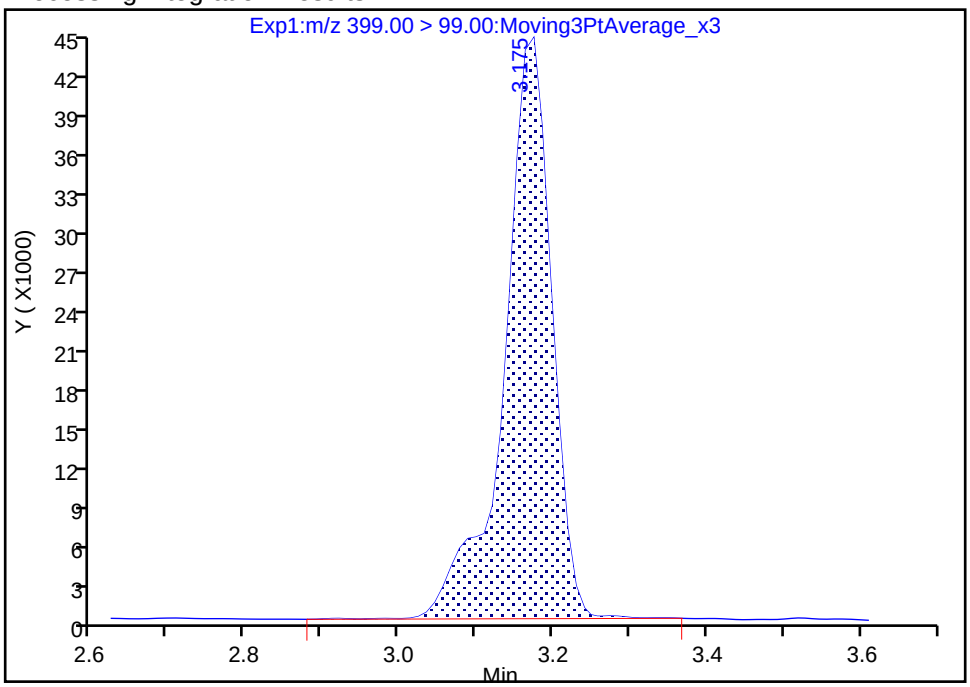
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

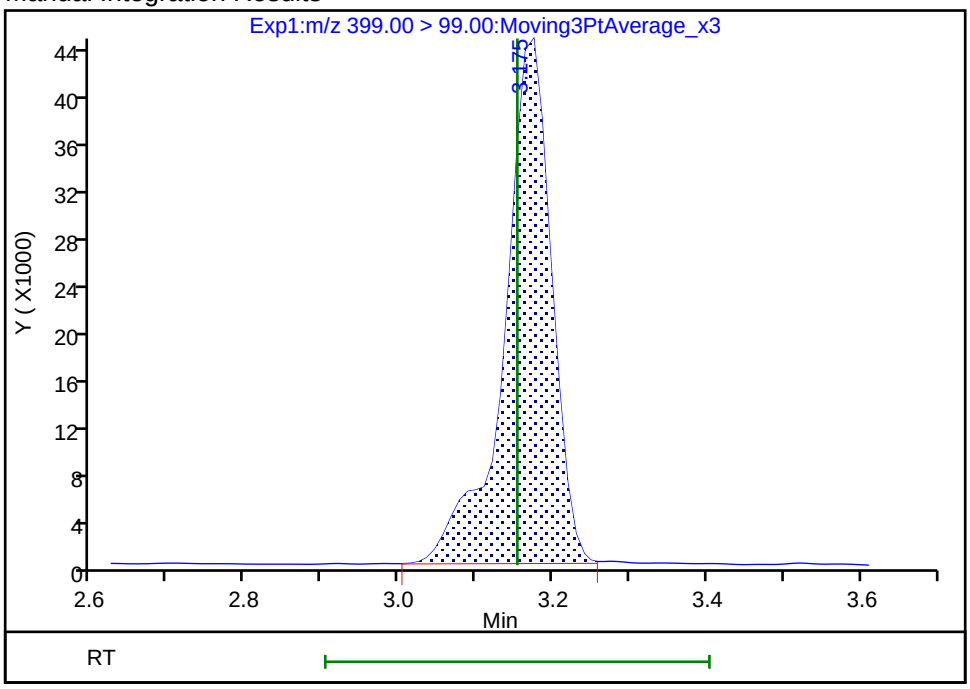
Processing Integration Results

RT: 3.17
Area: 188828
Amount: 0.909039
Amount Units: ng/ml



Manual Integration Results

RT: 3.17
Area: 187847
Amount: 0.906915
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:44:03

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

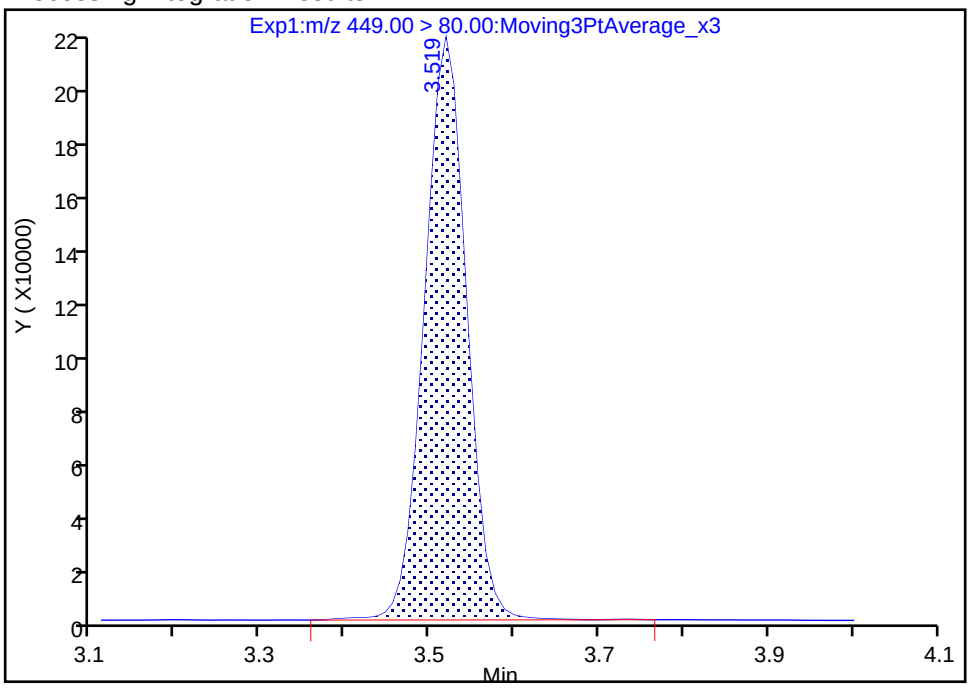
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

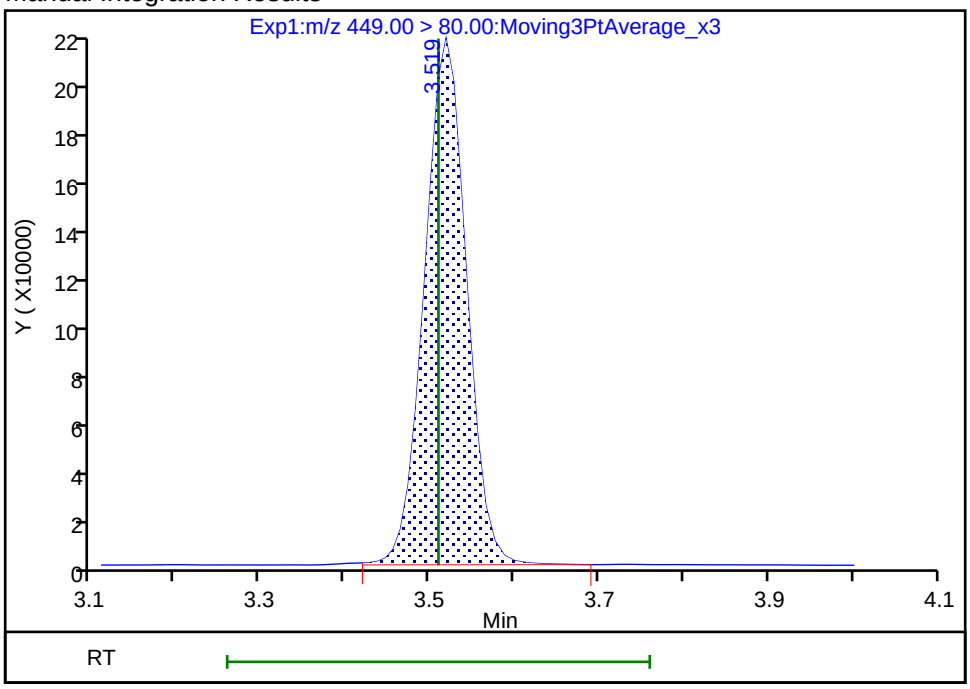
Processing Integration Results

RT: 3.52
Area: 746554
Amount: 0.990196
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 744445
Amount: 0.987399
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:44:42

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

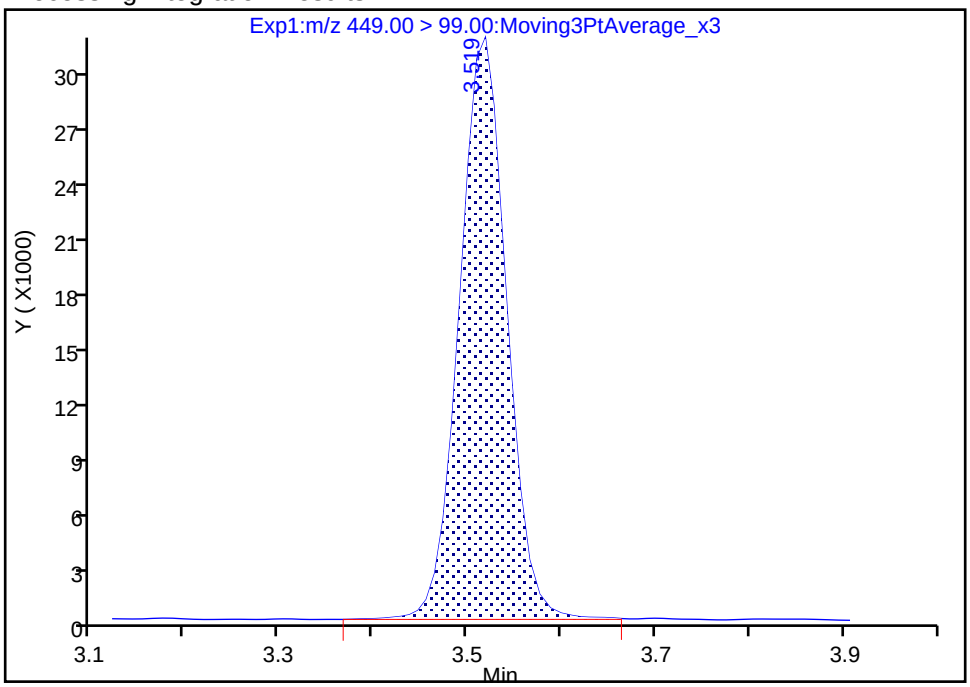
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

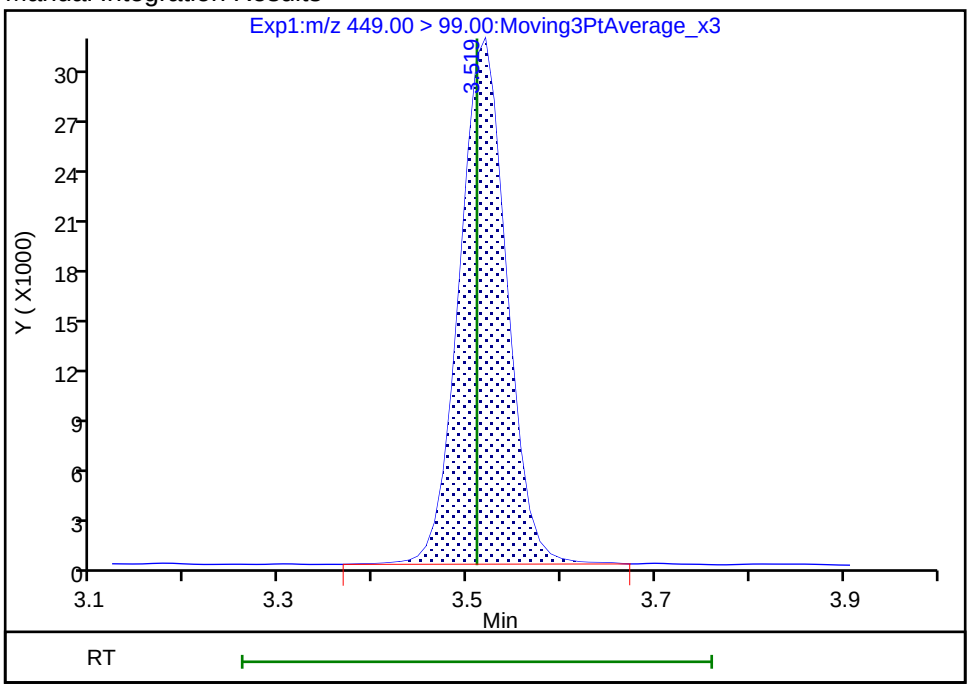
Processing Integration Results

RT: 3.52
Area: 108349
Amount: 0.990196
Amount Units: ng/ml



Manual Integration Results

RT: 3.52
Area: 108148
Amount: 0.987399
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:44:56

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

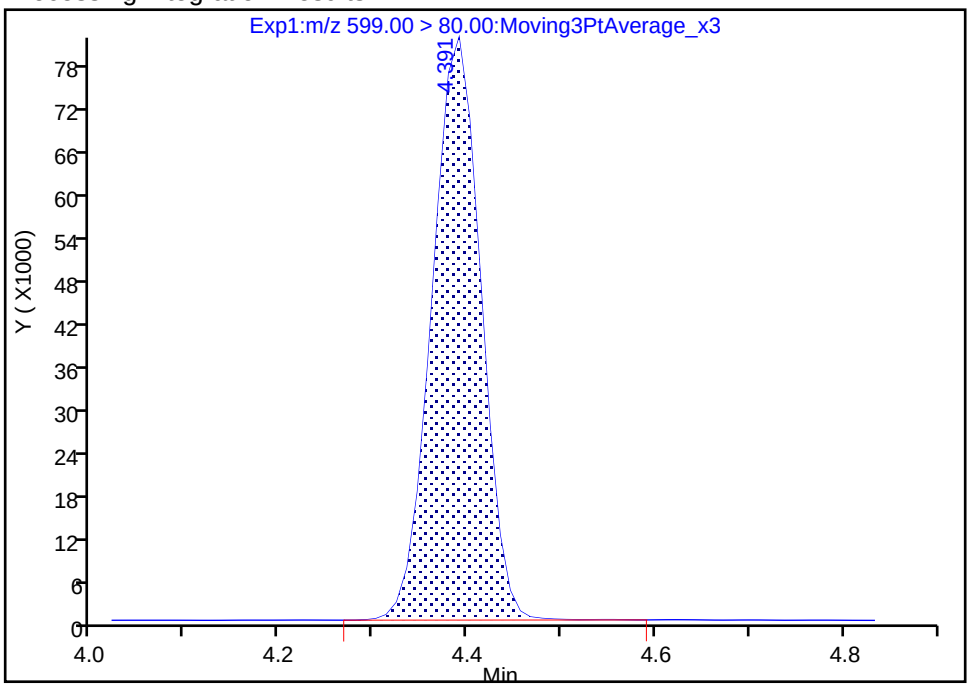
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

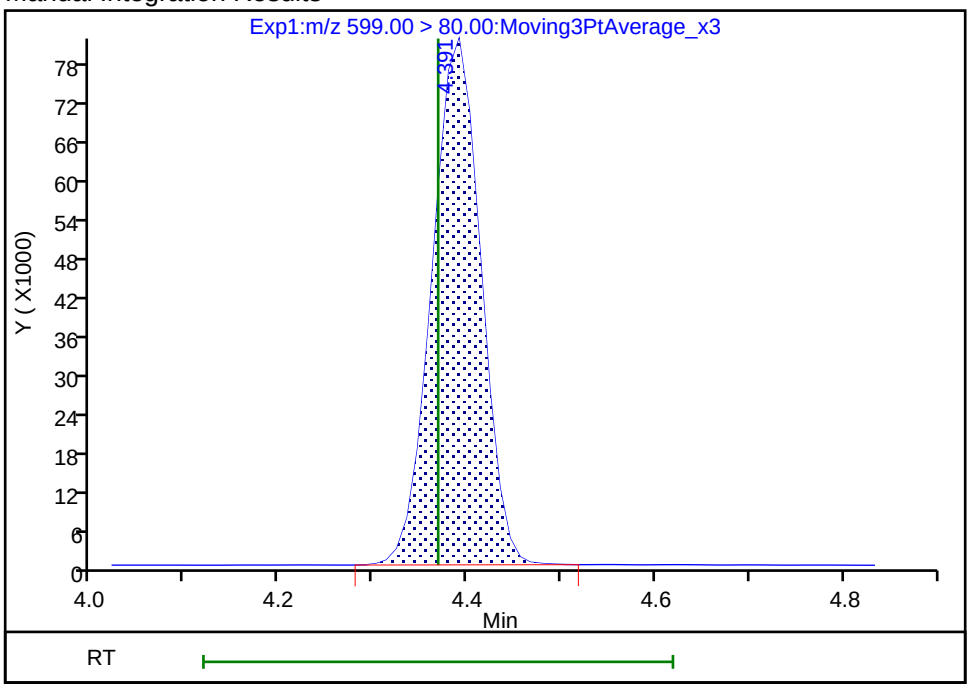
Processing Integration Results

RT: 4.39
Area: 293111
Amount: 0.764308
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 292721
Amount: 0.763291
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:46:18

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

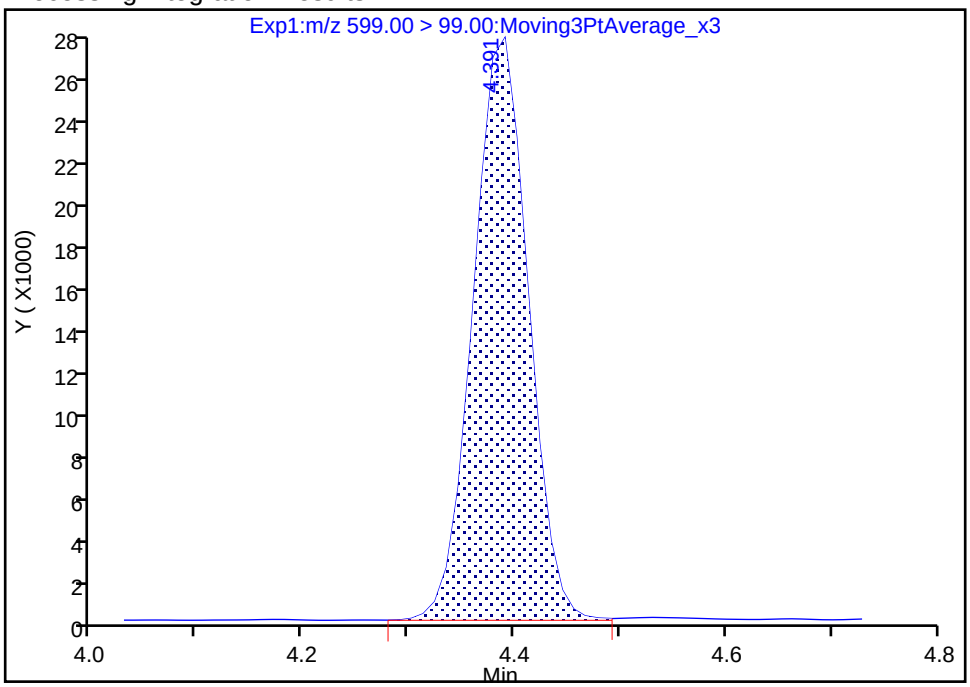
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

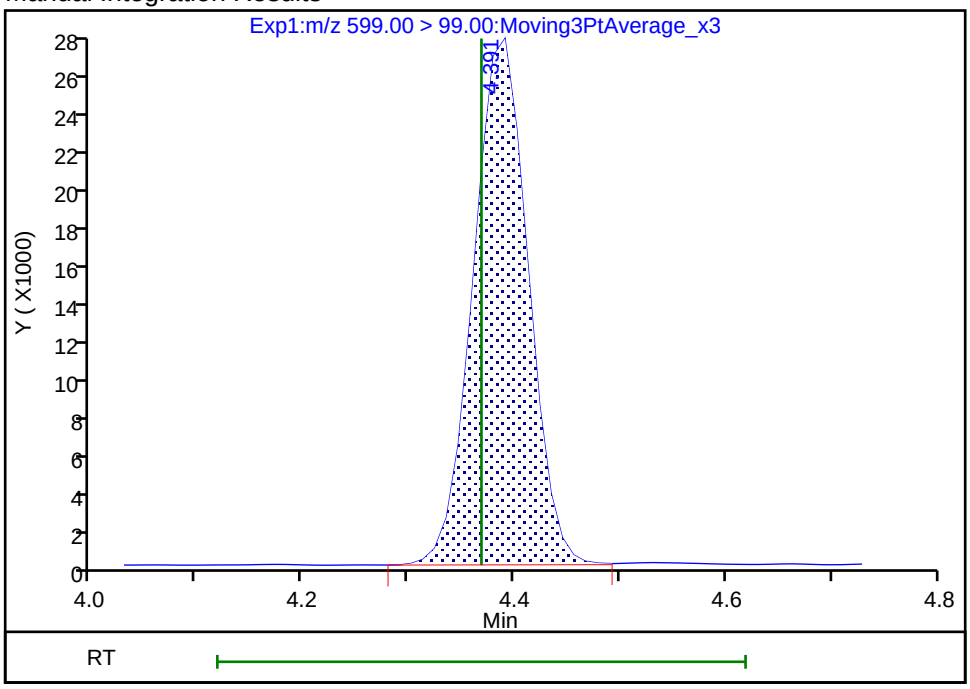
Processing Integration Results

RT: 4.39
Area: 99004
Amount: 0.764308
Amount Units: ng/ml



Manual Integration Results

RT: 4.39
Area: 98787
Amount: 0.763291
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:46:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

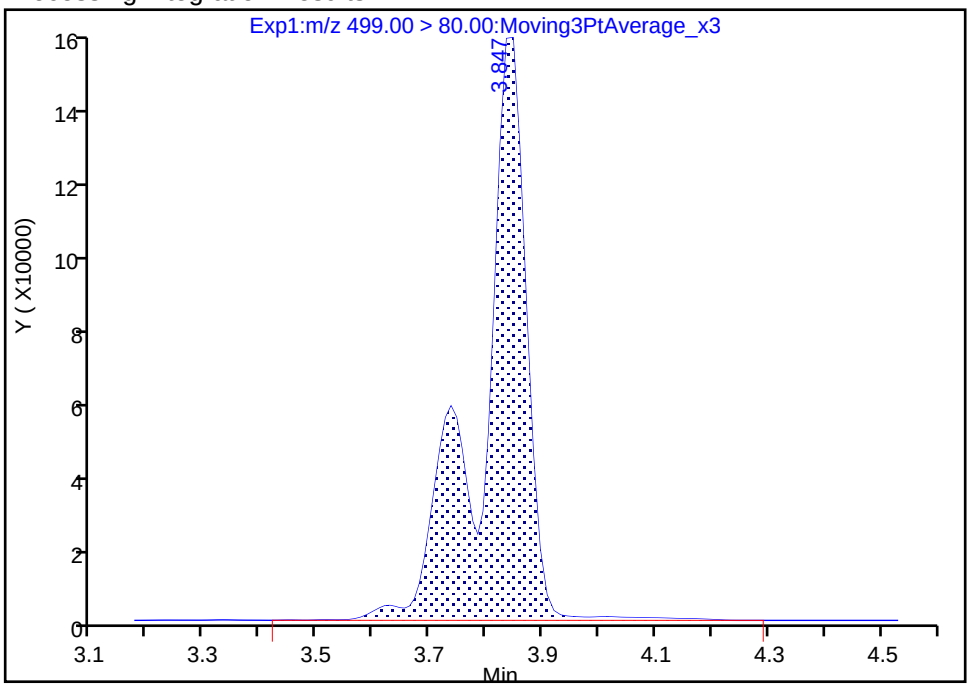
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

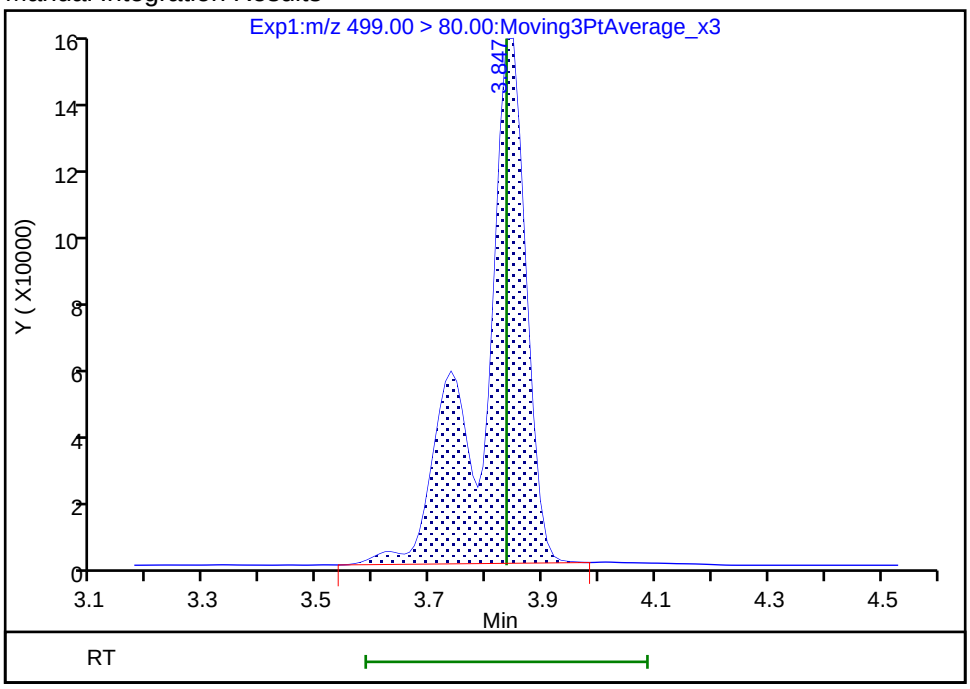
Processing Integration Results

RT: 3.85
Area: 858923
Amount: 1.265853
Amount Units: ng/ml



Manual Integration Results

RT: 3.85
Area: 839111
Amount: 1.236655
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:45:32

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

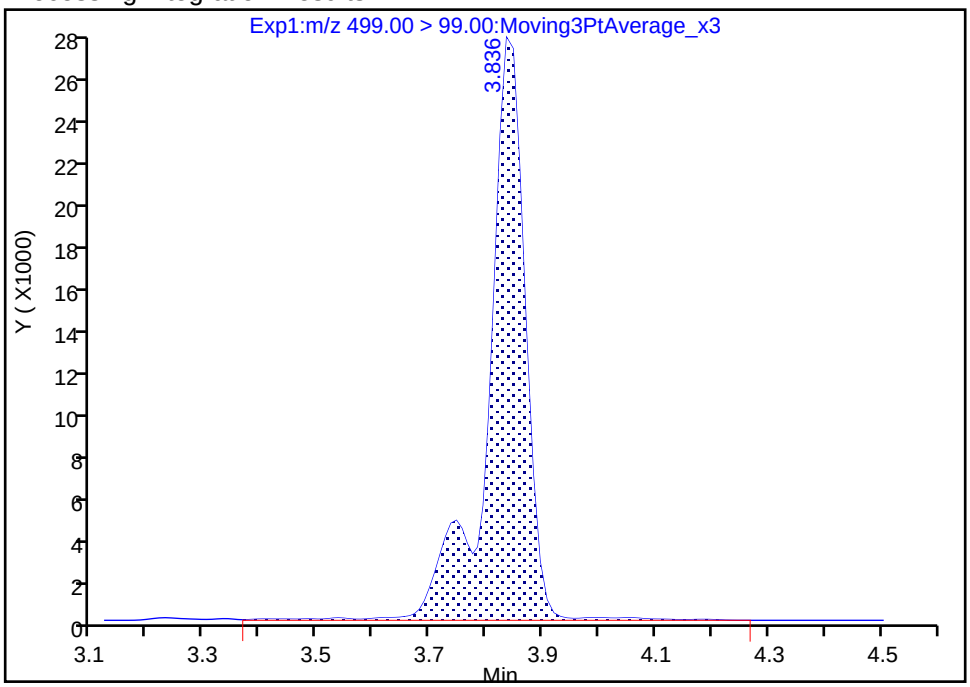
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

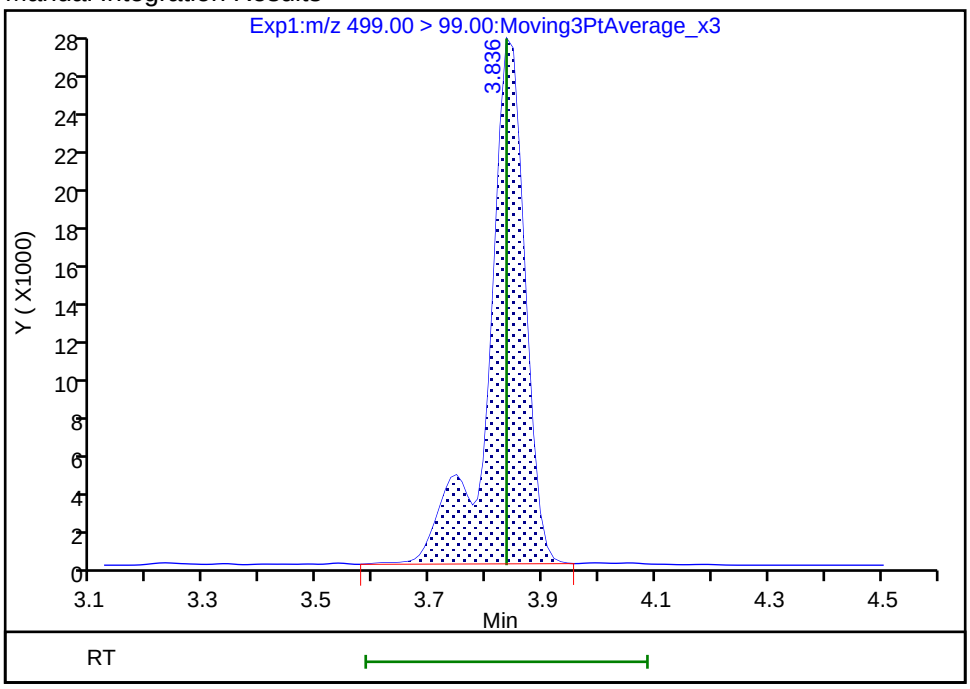
Processing Integration Results

RT: 3.84
Area: 128019
Amount: 1.265853
Amount Units: ng/ml



Manual Integration Results

RT: 3.84
Area: 124733
Amount: 1.236655
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:45:45

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

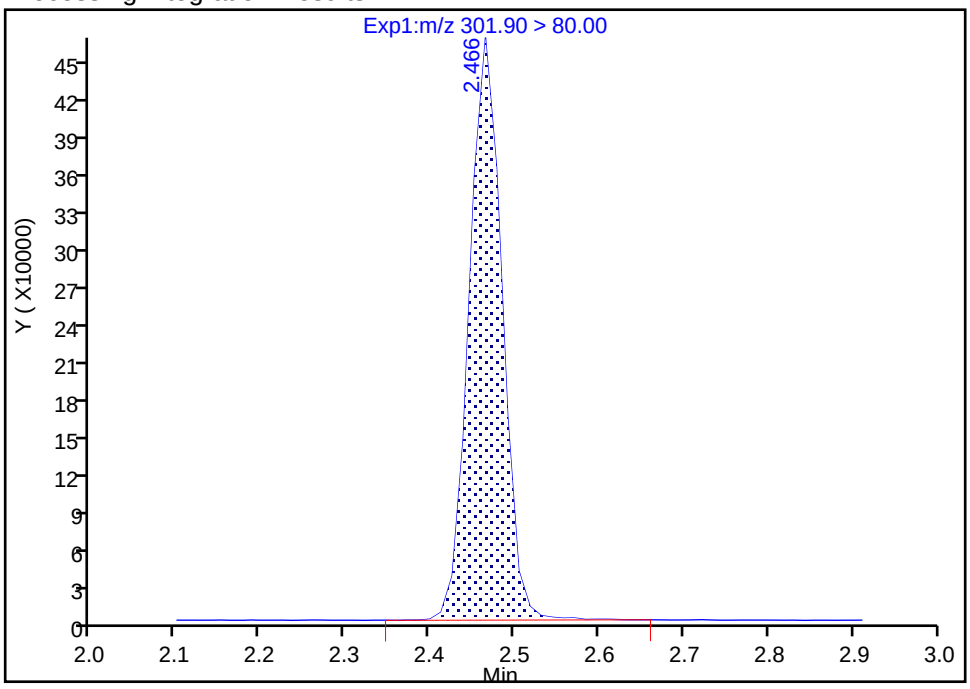
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

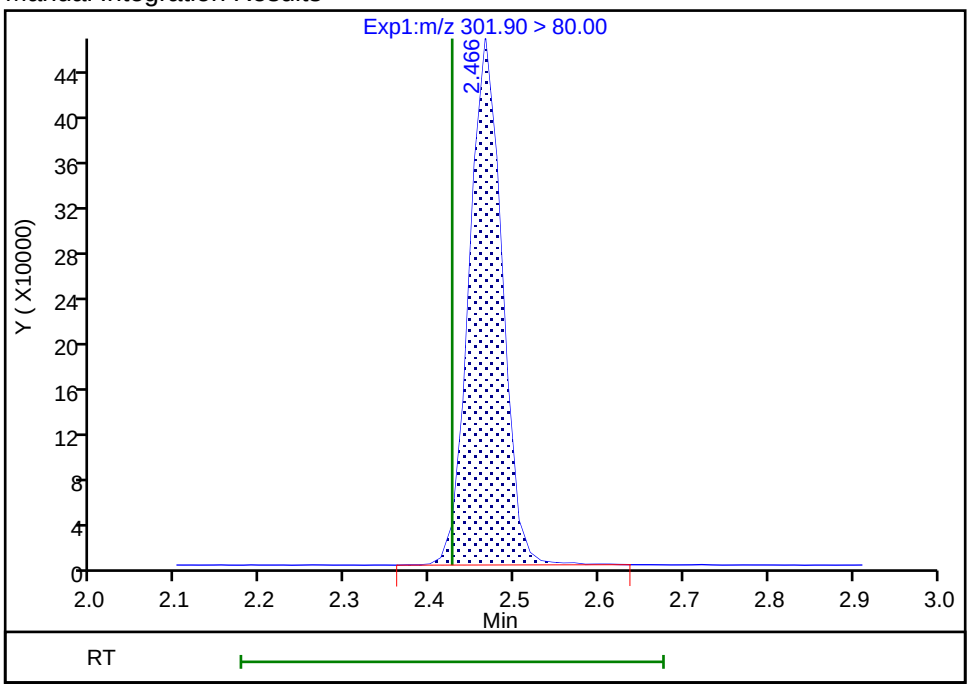
Processing Integration Results

RT: 2.47
Area: 1248116
Amount: 1.225195
Amount Units: ng/ml



Manual Integration Results

RT: 2.47
Area: 1247477
Amount: 1.224568
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:41:37

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

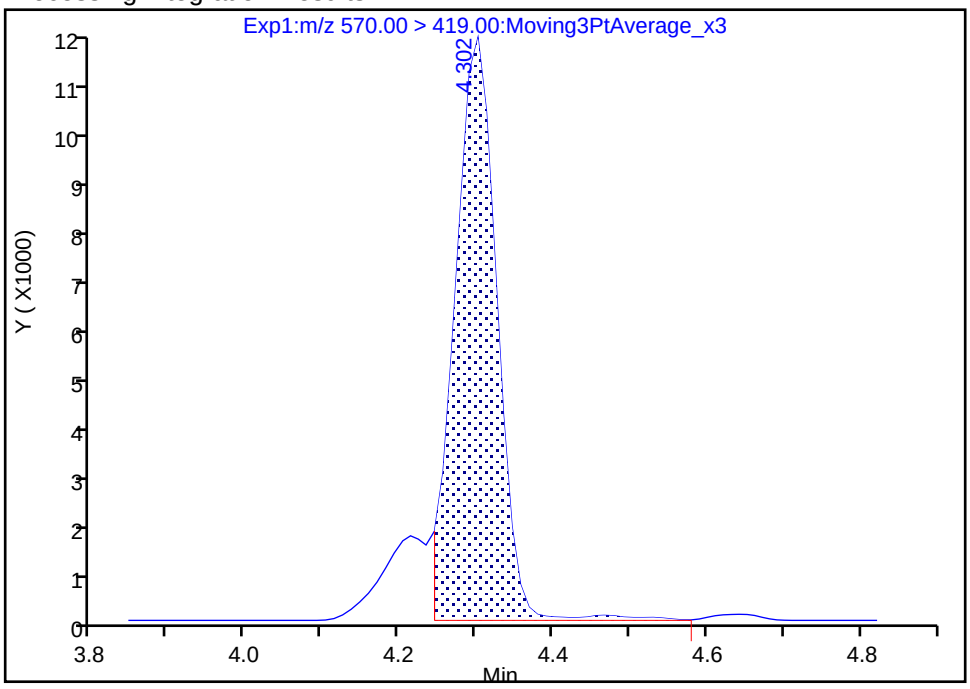
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

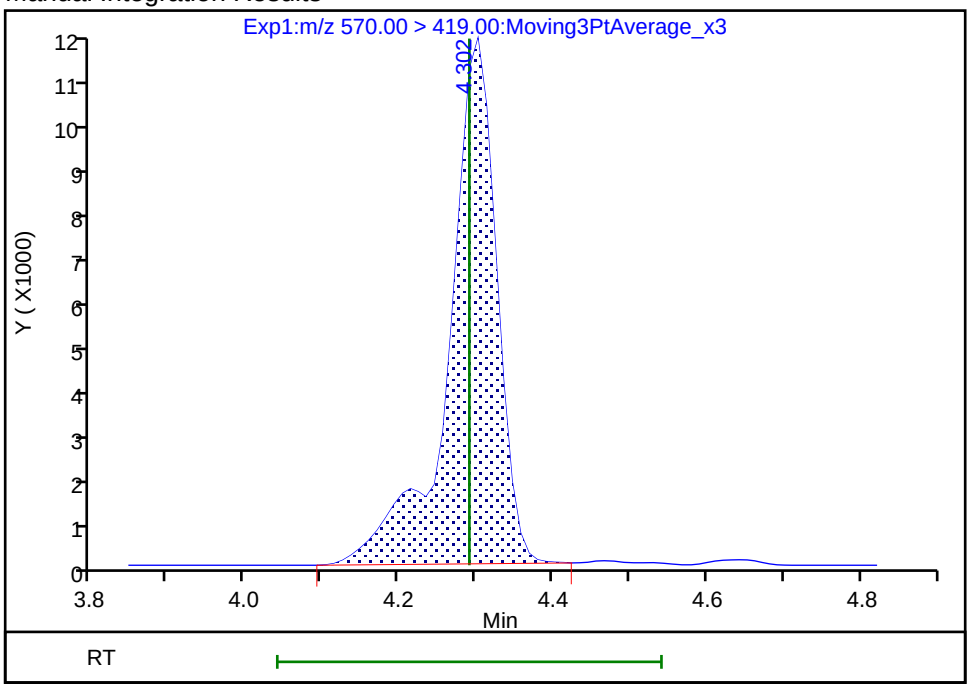
Processing Integration Results

RT: 4.30
Area: 45023
Amount: 0.838574
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 51661
Amount: 0.962210
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:46:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

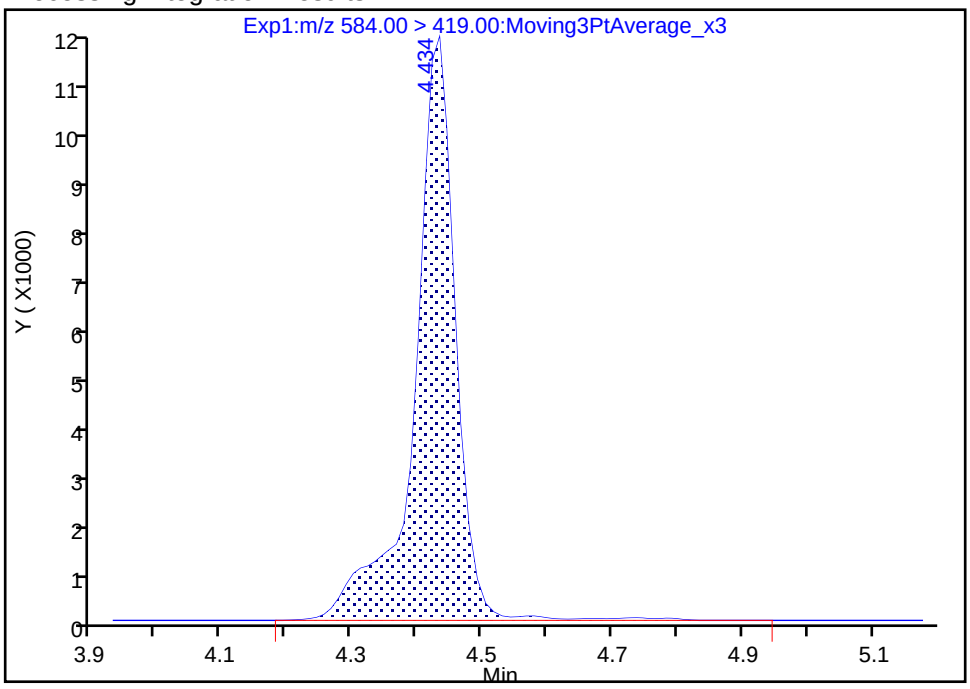
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

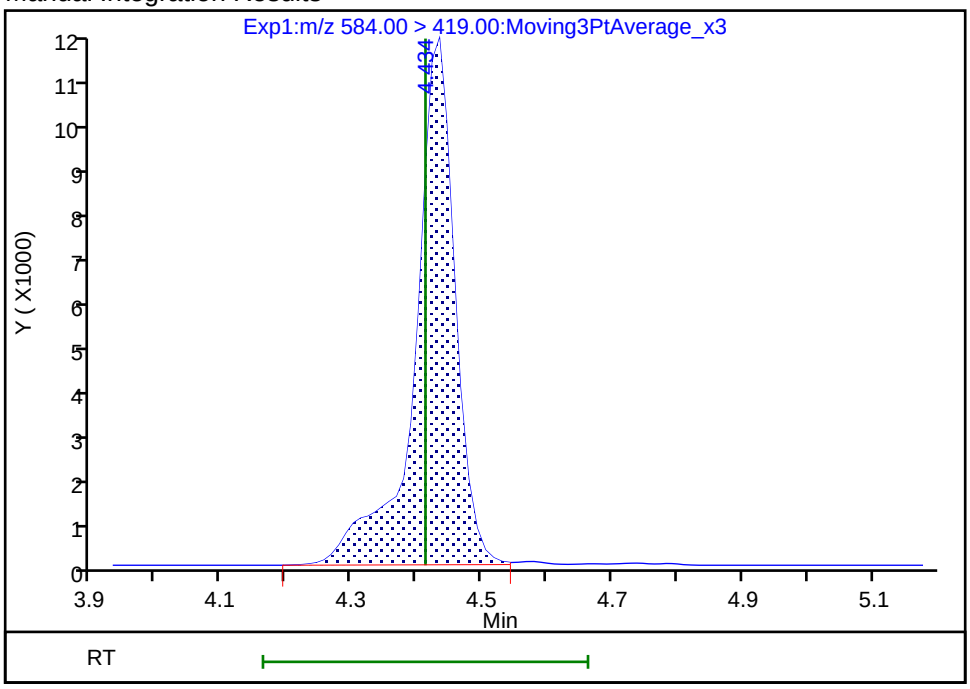
Processing Integration Results

RT: 4.43
Area: 50737
Amount: 0.927780
Amount Units: ng/ml



Manual Integration Results

RT: 4.43
Area: 49934
Amount: 0.913096
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:46:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

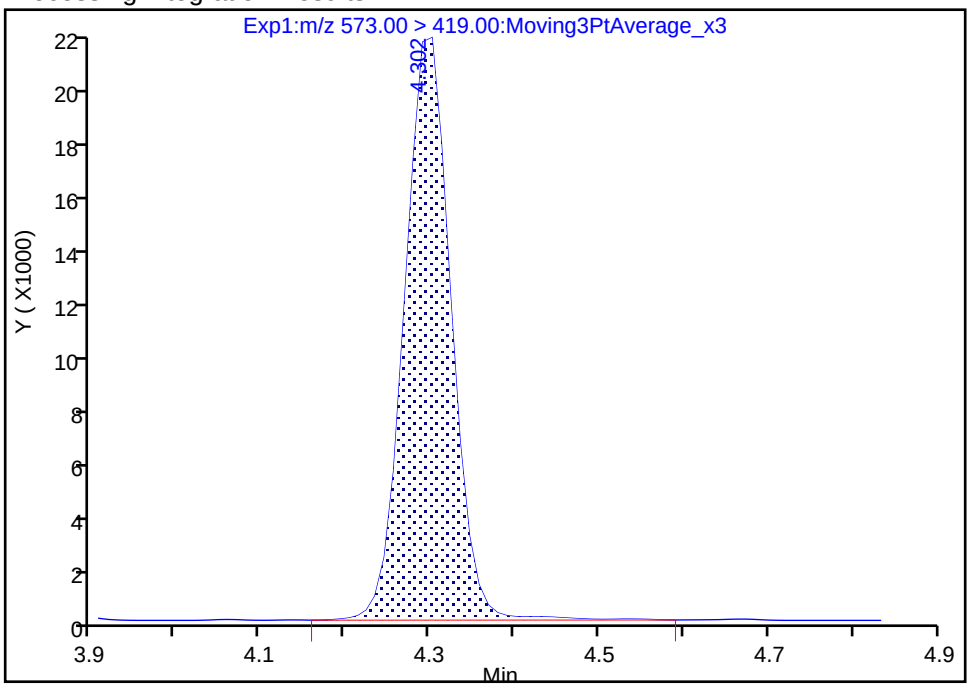
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

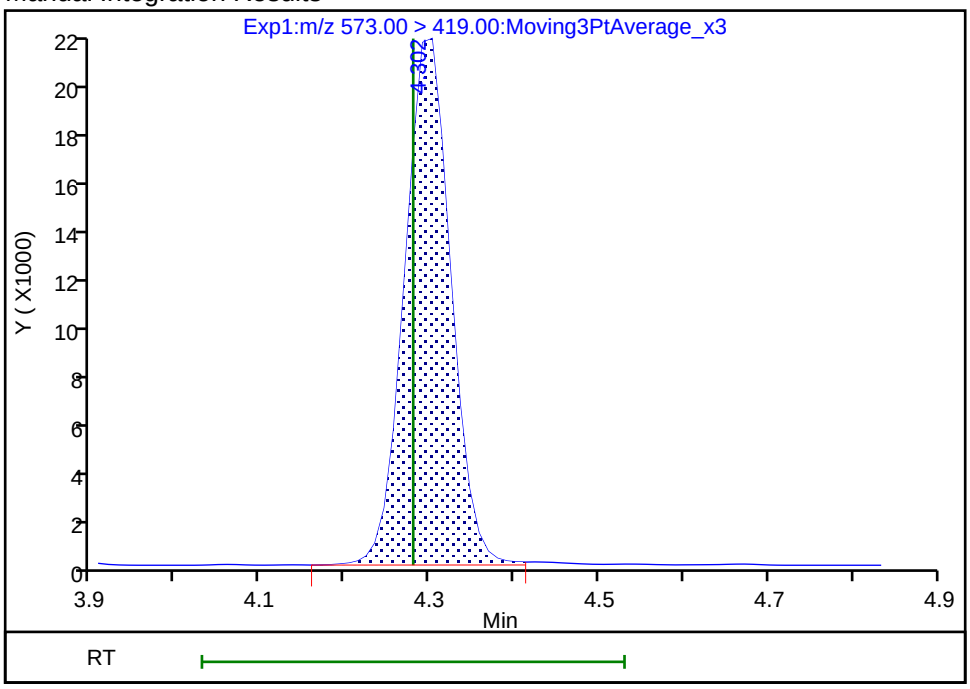
Processing Integration Results

RT: 4.30
Area: 81262
Amount: 1.169872
Amount Units: ng/ml



Manual Integration Results

RT: 4.30
Area: 80733
Amount: 1.162256
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:42:30

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

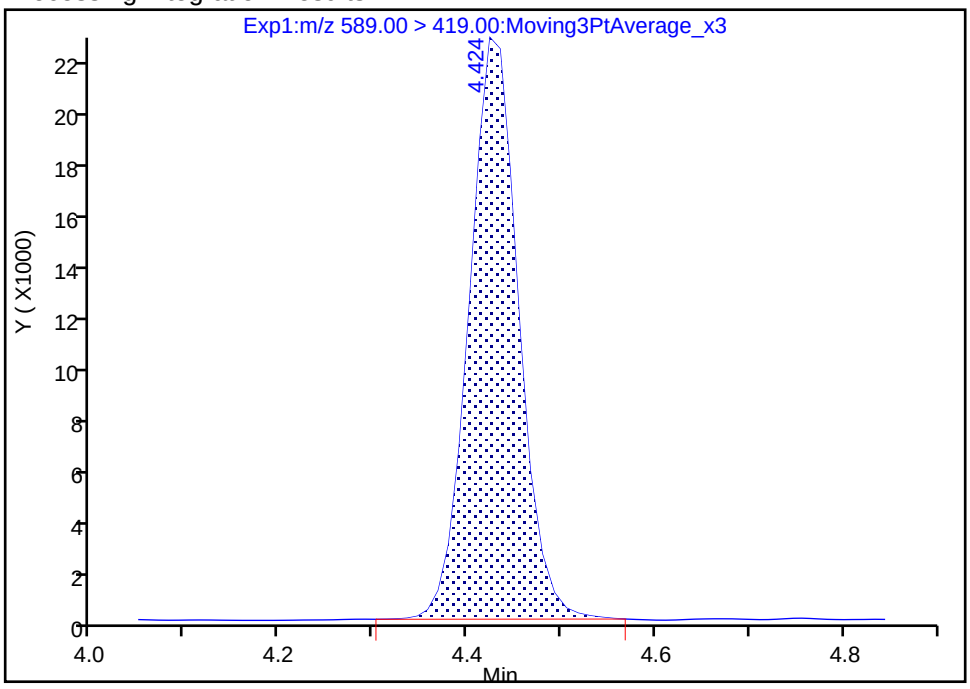
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

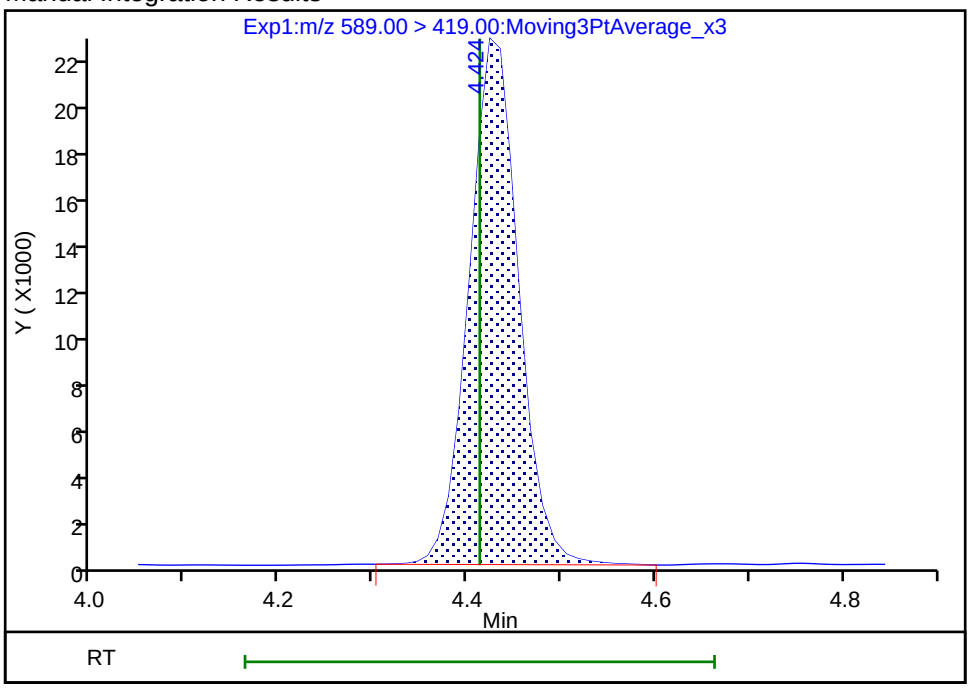
Processing Integration Results

RT: 4.42
Area: 80345
Amount: 1.111154
Amount Units: ng/ml



Manual Integration Results

RT: 4.42
Area: 80688
Amount: 1.115897
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:42:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

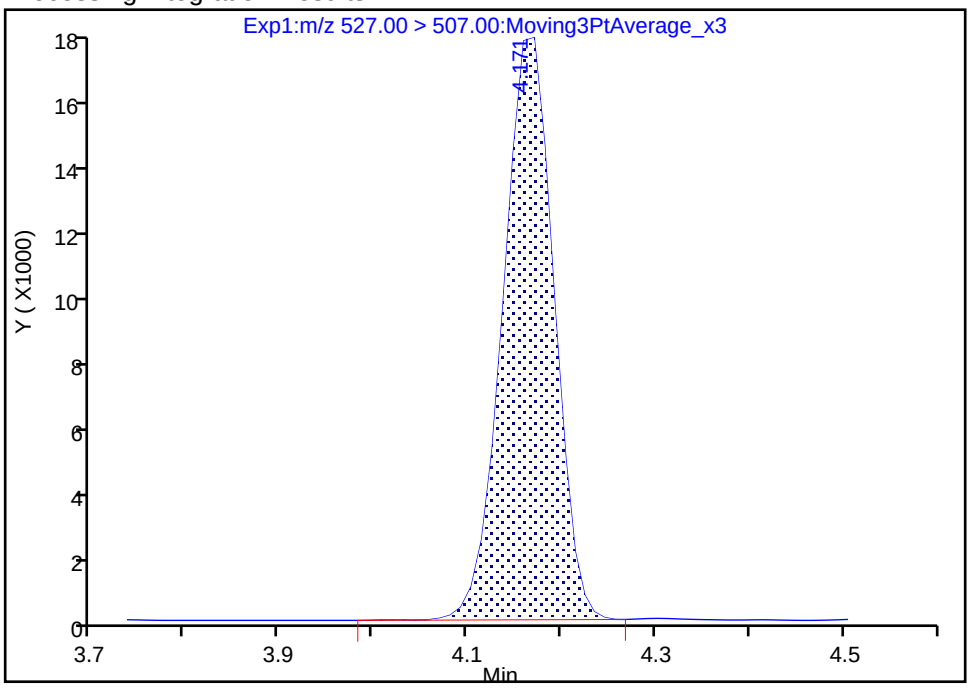
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

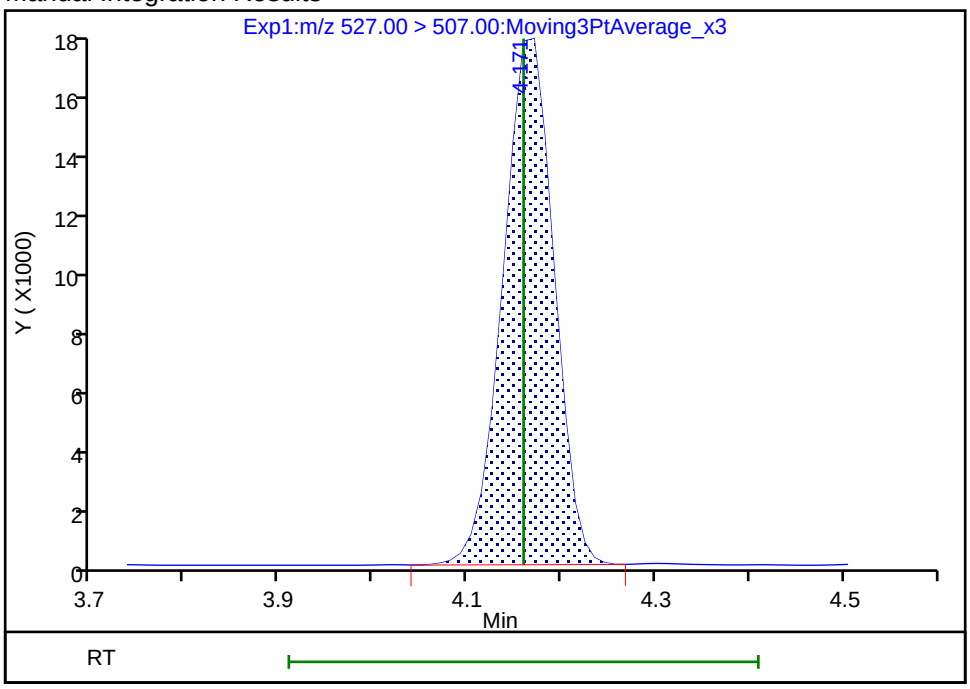
Processing Integration Results

RT: 4.17
Area: 65692
Amount: 1.044322
Amount Units: ng/ml



Manual Integration Results

RT: 4.17
Area: 65668
Amount: 1.043940
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:46:00

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

Eurofins TestAmerica, Burlington

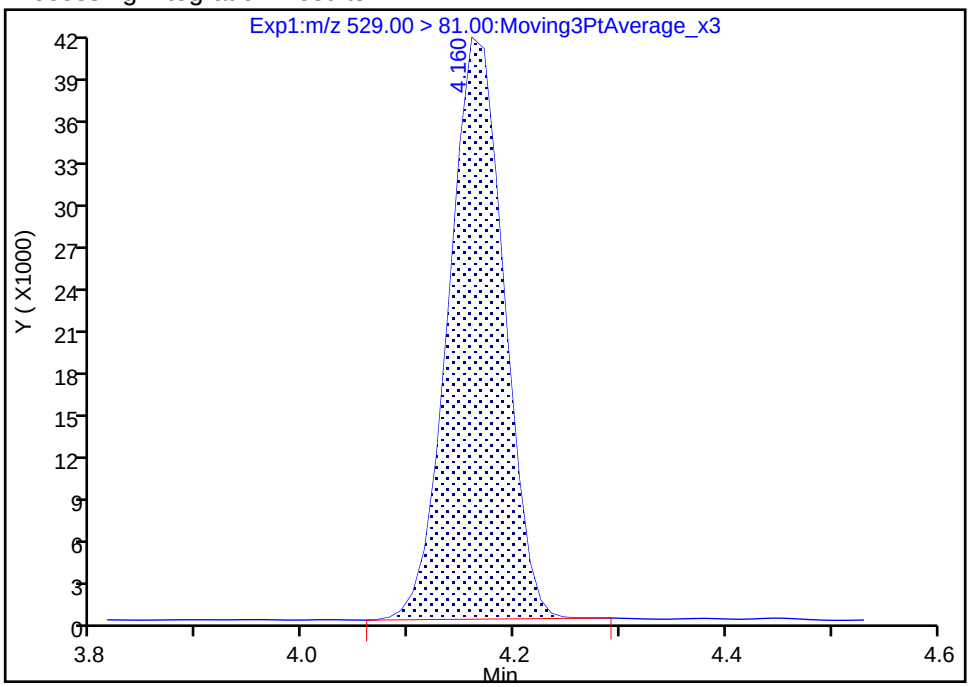
Data File:	\\chromfs\Burlington\ChromData\LC812\20210811-47128.b\PA210811A12.d				
Injection Date:	11-Aug-2021 14:16:42	Instrument ID:	LC812		
Lims ID:	480-188016-A-6-C MSD				
Client ID:	MW-86-1SH				
Operator ID:	lc812tech	ALS Bottle#:	9	Worklist Smp#:	12
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
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

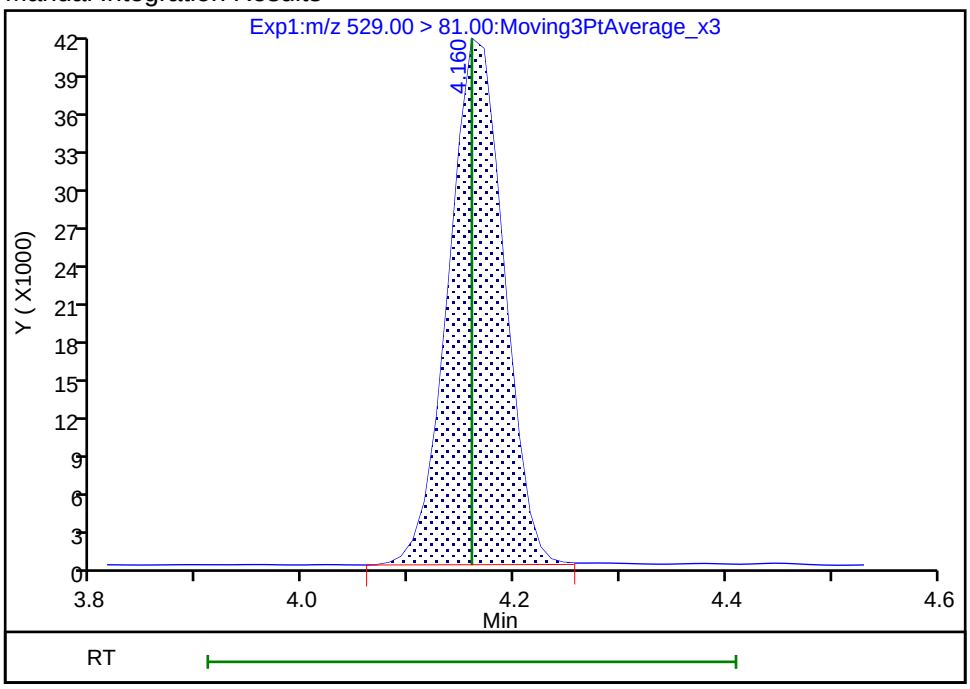
Processing Integration Results

RT: 4.16
Area: 150738
Amount: 1.127713
Amount Units: ng/ml



Manual Integration Results

RT: 4.16
Area: 151189
Amount: 1.131087
Amount Units: ng/ml



Reviewer: nampitakw, 12-Aug-2021 09:42:17

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Instrument ID: LC812 Start Date: 07/08/2021 15:10

Analysis Batch Number: 168873 End Date: 07/08/2021 16:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/08/2021 15:10	1		C-18 4.6(mm)
IC 200-168873/2		07/08/2021 15:19	1	PA210708ICAL02.d	C-18 4.6(mm)
IC 200-168873/3		07/08/2021 15:27	1	PA210708ICAL03.d	C-18 4.6(mm)
IC 200-168873/4		07/08/2021 15:35	1	PA210708ICAL04.d	C-18 4.6(mm)
ICIS 200-168873/5		07/08/2021 15:43	1	PA210708ICAL05.d	C-18 4.6(mm)
IC 200-168873/6		07/08/2021 15:52	1	PA210708ICAL06.d	C-18 4.6(mm)
IC 200-168873/7		07/08/2021 16:00	1	PA210708ICAL07.d	C-18 4.6(mm)
ICB 200-168873/8		07/08/2021 16:08	1	PA210708ICAL08.d	C-18 4.6(mm)
ICV 200-168873/9		07/08/2021 16:16	1	PA210708ICAL09.d	C-18 4.6(mm)
ZZZZZ		07/08/2021 16:25	1		C-18 4.6(mm)

537 (modified)

PFAS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-188016-1

SDG No.:

Instrument ID: LC812 Start Date: 08/11/2021 12:45

Analysis Batch Number: 170086 End Date: 08/11/2021 17:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		08/11/2021 12:45	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 12:53	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 13:02	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 13:10	1		C-18 4.6(mm)
CCVL 200-170086/5		08/11/2021 13:18	1	PA210811A05.d	C-18 4.6(mm)
CCVIS 200-170086/6		08/11/2021 13:26	1	PA210811A06.d	C-18 4.6(mm)
ZZZZZ		08/11/2021 13:35	10		C-18 4.6(mm)
MB 200-170043/1-A		08/11/2021 13:43	1	PA210811A08.d	C-18 4.6(mm)
LCS 200-170043/2-A		08/11/2021 13:51	1	PA210811A09.d	C-18 4.6(mm)
480-188016-6	MW-86-1SH	08/11/2021 14:00	1	PA210811A10.d	C-18 4.6(mm)
480-188016-6 MS	MW-86-1SH MS	08/11/2021 14:08	1	PA210811A11.d	C-18 4.6(mm)
480-188016-6 MSD	MW-86-1SH MSD	08/11/2021 14:16	1	PA210811A12.d	C-18 4.6(mm)
CCV 200-170086/13		08/11/2021 14:25	1	PA210811A13.d	C-18 4.6(mm)
480-188016-7	MW-86-X3	08/11/2021 14:33	1	PA210811A14.d	C-18 4.6(mm)
480-188016-8	MW-99-02	08/11/2021 14:41	1	PA210811A15.d	C-18 4.6(mm)
480-188016-9	MW-99-04	08/11/2021 14:49	1	PA210811A16.d	C-18 4.6(mm)
480-188016-10	MW-86-27	08/11/2021 14:58	1	PA210811A17.d	C-18 4.6(mm)
480-188016-11	DUP-080321	08/11/2021 15:06	1	PA210811A18.d	C-18 4.6(mm)
480-188016-13	FB-080321	08/11/2021 15:14	1	PA210811A19.d	C-18 4.6(mm)
480-188016-14	EB-080321	08/11/2021 15:22	1	PA210811A20.d	C-18 4.6(mm)
ZZZZZ		08/11/2021 15:31	20		C-18 4.6(mm)
ZZZZZ		08/11/2021 15:39	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 15:47	1		C-18 4.6(mm)
CCV 200-170086/24		08/11/2021 15:56	1	PA210811A24.d	C-18 4.6(mm)
ZZZZZ		08/11/2021 16:04	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 16:12	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 16:20	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 16:29	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 16:37	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 16:45	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 16:54	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 17:02	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 17:10	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 17:18	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 17:27	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 17:35	1		C-18 4.6(mm)
ZZZZZ		08/11/2021 17:43	1		C-18 4.6(mm)
CCV 200-170086/38		08/11/2021 17:52	1		C-18 4.6(mm)

537 (modified)

PFAS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-188016-1

SDG No.:

Batch Number: 170043 Batch Start Date: 08/10/21 14:14 Batch Analyst: Kane, Elizabeth

Batch Method: 3535 Batch End Date: 08/10/21 20:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFCIDA21 00036	LCPFC32MTXStk 00036
MB 200-170043/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	100 uL	
LCS 200-170043/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	100 uL	25 uL
480-188016-F-6	MW-86-1SH	3535, 537 (modified)	T	291.41 g	27.25 g	264.2 mL	10 mL	100 uL	
480-188016-B-6 MS	MW-86-1SH	3535, 537 (modified)	T	290.01 g	27.95 g	262.1 mL	10 mL	100 uL	25 uL
480-188016-A-6 MSD	MW-86-1SH	3535, 537 (modified)	T	288.28 g	27.12 g	261.2 mL	10 mL	100 uL	25 uL
480-188016-F-7	MW-86-X3	3535, 537 (modified)	T	281.17 g	27.19 g	254 mL	10 mL	100 uL	
480-188016-F-8	MW-99-02	3535, 537 (modified)	T	283.38 g	27.51 g	255.9 mL	10 mL	100 uL	
480-188016-F-9	MW-99-04	3535, 537 (modified)	T	287.56 g	27.24 g	260.3 mL	10 mL	100 uL	
480-188016-F-10	MW-86-27	3535, 537 (modified)	T	288.26 g	27.49 g	260.8 mL	10 mL	100 uL	
480-188016-F-11	DUP-080321	3535, 537 (modified)	T	291.38 g	27.76 g	263.6 mL	10 mL	100 uL	
480-188016-A-13	FB-080321	3535, 537 (modified)	T	307.19 g	27.50 g	279.7 mL	10 mL	100 uL	
480-188016-A-14	EB-080321	3535, 537 (modified)	T	306.57 g	27.08 g	279.5 mL	10 mL	100 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00036					
MB 200-170043/1		3535, 537 (modified)		100 uL					
LCS 200-170043/2		3535, 537 (modified)		100 uL					
480-188016-F-6	MW-86-1SH	3535, 537 (modified)	T	100 uL					
480-188016-B-6 MS	MW-86-1SH	3535, 537 (modified)	T	100 uL					
480-188016-A-6 MSD	MW-86-1SH	3535, 537 (modified)	T	100 uL					
480-188016-F-7	MW-86-X3	3535, 537 (modified)	T	100 uL					
480-188016-F-8	MW-99-02	3535, 537 (modified)	T	100 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.

PFAS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-188016-1

SDG No.:

Batch Number: 170043 Batch Start Date: 08/10/21 14:14 Batch Analyst: Kane, Elizabeth

Batch Method: 3535 Batch End Date: 08/10/21 20:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00036					
480-188016-F-9	MW-99-04	3535, 537 (modified)	T	100 uL					
480-188016-F-10	MW-86-27	3535, 537 (modified)	T	100 uL					
480-188016-F-11	DUP-080321	3535, 537 (modified)	T	100 uL					
480-188016-A-13	FB-080321	3535, 537 (modified)	T	100 uL					
480-188016-A-14	EB-080321	3535, 537 (modified)	T	100 uL					

Batch Notes	
Balance ID	M02926
Batch Comment	IDA:B MTX:C IS:C
Manifold ID	IDA 3&4
Pipette/Syringe/Dispenser ID	QH77727
Rinse Solvent Lot	1521024
Rinse Solvent Name	30% MeOH
Solvent Lot #	1523136
Solvent Name	Methanol (0.3% NH4OH)
SPE Cartridge Lot ID	Sorbent Lot: 3029/1247/G Prod Lot: D00413
SPE Cartridge Type	Strata PFAS (WAX/GBC) 500mg/50mg/6mg
Analyst ID - Spike Analyst	EK
Analyst ID - Spike Witness Analyst	CMS

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG No.:

Project: SMP C - Haviland Complex

Client Sample ID	Lab Sample ID
MW-99-03	480-188016-1
MW-86-24A	480-188016-2
MW-99-01	480-188016-3
MW-86-28	480-188016-4
MW-12	480-188016-5
MW-86-1SH	480-188016-6
MW-86-X3	480-188016-7
MW-99-02	480-188016-8
MW-99-04	480-188016-9
MW-86-27	480-188016-10
DUP-080321	480-188016-11

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-99-03 Lab Sample ID: 480-188016-1

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/02/2021 11:51

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.11	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.094	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	40.1	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.016	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0061	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.062	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	14.3	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0051	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.017	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.8	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	22.8	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0028	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-99-03 | Lab Sample ID: 480-188016-1

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG ID.:

Matrix: Water | Date Sampled: 08/02/2021 11:51

Reporting Basis: WET | Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.096	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	39.4	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.015	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0056	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	14.0	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.00047	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	0.016	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.9	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	22.6	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0046	0.010	0.0015	mg/L	J	B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-86-24A
Lab Sample ID: 480-188016-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-188016-1
SDG ID.:
Matrix: Water
Date Sampled: 08/02/2021 13:40
Reporting Basis: WET
Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.37	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.023	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	42.1	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.14	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0014	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0018	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	1.1	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	5.1	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.035	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.11	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.1	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	122	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0061	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-86-24A
Lab Sample ID: 480-188016-2
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-188016-1
SDG ID.:
Matrix: Water
Date Sampled: 08/02/2021 13:40
Reporting Basis: WET
Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.075	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.021	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	40.0	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.063	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0015	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	0.38	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	4.9	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.031	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.13	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.2	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	121	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0062	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-99-01 Lab Sample ID: 480-188016-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/02/2021 14:39

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.18	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.028	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	79.4	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.21	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0031	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0023	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.89	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	8.1	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	4.2	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.038	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.3	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	77.7	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0020	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-99-01 Lab Sample ID: 480-188016-3

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/02/2021 14:39

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.067	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.020	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	77.2	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.028	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0018	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	0.21	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	7.9	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	3.1	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.016	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.3	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	75.6	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0018	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-86-28 | Lab Sample ID: 480-188016-4

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG ID.:

Matrix: Water | Date Sampled: 08/02/2021 15:46

Reporting Basis: WET | Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.13	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.049	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	52.3	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0017	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	2.3	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	12.8	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.33	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.8	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	142	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	ND	0.010	0.0015	mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-86-28 Lab Sample ID: 480-188016-4

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/02/2021 15:46

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.050	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	52.2	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	2.5	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	12.9	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.34	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.9	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	142	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.013	0.010	0.0015	mg/L		B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-12 | Lab Sample ID: 480-188016-5

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG ID.:

Matrix: Water | Date Sampled: 08/03/2021 15:56

Reporting Basis: WET | Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.070	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.024	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	43.5	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	5.4	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.00069	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.8	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	75.6	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	ND	0.010	0.0015	mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-12 | Lab Sample ID: 480-188016-5

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG ID.:

Matrix: Water | Date Sampled: 08/03/2021 15:56

Reporting Basis: WET | Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.023	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	41.3	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	5.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	ND	0.0030	0.00040	mg/L			1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.9	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	72.9	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0024	0.010	0.0015	mg/L	J	B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-86-1SH
Lab Sample ID: 480-188016-6
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-188016-1
SDG ID.:
Matrix: Water
Date Sampled: 08/03/2021 09:13
Reporting Basis: WET
Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.069	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.035	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	70.9	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0032	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	7.7	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.00082	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.1	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	128	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0015	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-86-1SH
Lab Sample ID: 480-188016-6
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-188016-1
SDG ID.:
Matrix: Water
Date Sampled: 08/03/2021 09:13
Reporting Basis: WET
Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.036	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	69.4	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	7.5	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0017	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	1.2	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	125	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0039	0.010	0.0015	mg/L	J	B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-86-X3 Lab Sample ID: 480-188016-7

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/03/2021 10:41

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.061	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.020	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	64.6	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	0.035	0.050	0.019	mg/L	J		1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	5.5	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0031	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.2	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	41.7	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	ND	0.010	0.0015	mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-86-X3 | Lab Sample ID: 480-188016-7

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG ID.:

Matrix: Water | Date Sampled: 08/03/2021 10:41

Reporting Basis: WET | Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.020	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	63.6	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	5.3	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.00044	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	ND	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.3	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	41.3	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0025	0.010	0.0015	mg/L	J	B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-99-02 Lab Sample ID: 480-188016-8

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/03/2021 12:00

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.067	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.035	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	98.8	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.51	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0059	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0023	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	1.2	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	9.8	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.87	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.083	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.1	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	124	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	ND	0.010	0.0015	mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-99-02 | Lab Sample ID: 480-188016-8

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG ID.:

Matrix: Water | Date Sampled: 08/03/2021 12:00

Reporting Basis: WET | Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.029	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	95.8	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0014	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	0.0024	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0016	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	9.5	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.33	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.019	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	2.3	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	121	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	ND	0.010	0.0015	mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-99-04 Lab Sample ID: 480-188016-9

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/03/2021 13:27

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.045	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	115	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0013	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	0.062	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	10.5	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0047	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.0034	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	0.84	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	18.2	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0019	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-99-04 Lab Sample ID: 480-188016-9

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/03/2021 13:27

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.046	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	113	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	0.0076	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	10.4	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.00060	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	0.0029	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	0.85	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	18.2	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0061	0.010	0.0015	mg/L	J	B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MW-86-27 Lab Sample ID: 480-188016-10

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/03/2021 14:56

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	0.071	0.20	0.060	mg/L	J		1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.028	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	76.3	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.19	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	0.0010	0.0040	0.00063	mg/L	J		1	6010C
7440-50-8	Copper	0.0045	0.010	0.0016	mg/L	J		1	6010C
7439-89-6	Iron	0.91	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	6.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.014	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.019	0.010	0.0013	mg/L			1	6010C
7440-09-7	Potassium	0.75	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	89.7	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0016	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MW-86-27 | Lab Sample ID: 480-188016-10

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG ID.:

Matrix: Water | Date Sampled: 08/03/2021 14:56

Reporting Basis: WET | Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.027	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	74.6	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0028	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	6.0	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0012	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	0.0025	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	0.76	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	88.6	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	ND	0.010	0.0015	mg/L			1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DUP-080321 Lab Sample ID: 480-188016-11

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/03/2021 00:00

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.045	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	116	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	0.0018	0.0040	0.0010	mg/L	J		1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	0.081	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	10.5	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0048	0.0030	0.00040	mg/L		B	1	6010C
7440-02-0	Nickel	0.0034	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	0.88	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	18.4	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0022	0.010	0.0015	mg/L	J		1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: DUP-080321 Lab Sample ID: 480-188016-11

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG ID.:

Matrix: Water Date Sampled: 08/03/2021 00:00

Reporting Basis: WET Date Received: 08/05/2021 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	ND	0.20	0.060	mg/L			1	6010C
7440-36-0	Antimony	ND	0.020	0.0068	mg/L			1	6010C
7440-38-2	Arsenic	ND	0.015	0.0056	mg/L			1	6010C
7440-39-3	Barium	0.045	0.0020	0.00070	mg/L			1	6010C
7440-41-7	Beryllium	ND	0.0020	0.00030	mg/L			1	6010C
7440-43-9	Cadmium	ND	0.0020	0.00050	mg/L			1	6010C
7440-70-2	Calcium	111	0.50	0.10	mg/L			1	6010C
7440-47-3	Chromium	ND	0.0040	0.0010	mg/L			1	6010C
7440-48-4	Cobalt	ND	0.0040	0.00063	mg/L			1	6010C
7440-50-8	Copper	ND	0.010	0.0016	mg/L			1	6010C
7439-89-6	Iron	ND	0.050	0.019	mg/L			1	6010C
7439-92-1	Lead	ND	0.010	0.0030	mg/L			1	6010C
7439-95-4	Magnesium	10.2	0.20	0.043	mg/L			1	6010C
7439-96-5	Manganese	0.0011	0.0030	0.00040	mg/L	J	B	1	6010C
7440-02-0	Nickel	0.0033	0.010	0.0013	mg/L	J		1	6010C
7440-09-7	Potassium	0.84	0.50	0.10	mg/L			1	6010C
7782-49-2	Selenium	ND	0.025	0.0087	mg/L			1	6010C
7440-22-4	Silver	ND	0.0060	0.0017	mg/L			1	6010C
7440-23-5	Sodium	18.0	1.0	0.32	mg/L			1	6010C
7440-28-0	Thallium	ND	0.020	0.010	mg/L			1	6010C
7440-62-2	Vanadium	ND	0.0050	0.0015	mg/L			1	6010C
7440-66-6	Zinc	0.0019	0.010	0.0015	mg/L	J	B	1	6010C
7439-97-6	Mercury	ND	0.00020	0.000043	mg/L			1	7470A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_MSS_ICV_00077 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00179

Analyte	ICV 480-592475/5 08/10/2021 12:22				CCV 480-592475/15 08/10/2021 13:01				CCV 480-592475/27 08/10/2021 13:53			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	36.66		37.5	98	49.37		50.0	99	48.75		50.0	97
Antimony	0.792		0.750	106	0.988		1.00	99	0.977		1.00	98
Arsenic	0.747		0.750	100	0.988		1.00	99	0.979		1.00	98
Barium	0.742		0.750	99	0.992		1.00	99	0.994		1.00	99
Beryllium	0.742		0.750	99	0.993		1.00	99	0.988		1.00	99
Cadmium	0.743		0.750	99	0.984		1.00	98	0.967		1.00	97
Calcium	37.10		37.5	99	49.65		50.0	99	49.03		50.0	98
Chromium	0.756		0.750	101	0.990		1.00	99	0.984		1.00	98
Cobalt	0.735		0.750	98	0.987		1.00	99	0.991		1.00	99
Copper	0.719		0.750	96	0.984		1.00	98	0.984		1.00	98
Iron	37.57		37.5	100	49.81		50.0	100	49.02		50.0	98
Lead	0.744		0.750	99	0.983		1.00	98	0.992		1.00	99
Magnesium	36.65		37.5	98	48.70		50.0	97	48.20		50.0	96
Manganese	0.757		0.750	101	0.990		1.00	99	0.985		1.00	99
Nickel	0.735		0.750	98	0.984		1.00	98	0.983		1.00	98
Potassium	36.88		37.5	98	49.94		50.0	100	49.58		50.0	99
Selenium	0.743		0.750	99	0.980		1.00	98	0.973		1.00	97
Silver	0.744		0.750	99	0.973		1.00	97	0.963		1.00	96
Sodium	37.68		37.5	100	49.95		50.0	100	49.48		50.0	99
Thallium	0.753		0.750	100	0.992		1.00	99	0.992		1.00	99
Vanadium	0.744		0.750	99	0.992		1.00	99	0.990		1.00	99
Zinc	0.746		0.750	100	0.999		1.00	100	1.00		1.00	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_MSS_ICV_00077 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00179

Analyte	CCV 480-592475/39 08/10/2021 14:38											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	48.36		50.0	97								
Antimony	0.973		1.00	97								
Arsenic	0.982		1.00	98								
Barium	0.999		1.00	100								
Beryllium	0.987		1.00	99								
Cadmium	0.960		1.00	96								
Calcium	48.60		50.0	97								
Chromium	0.979		1.00	98								
Cobalt	0.996		1.00	100								
Copper	0.982		1.00	98								
Iron	48.73		50.0	97								
Lead	0.991		1.00	99								
Magnesium	47.72		50.0	95								
Manganese	0.980		1.00	98								
Nickel	0.986		1.00	99								
Potassium	49.33		50.0	99								
Selenium	0.974		1.00	97								
Silver	0.954		1.00	95								
Sodium	49.34		50.0	99								
Thallium	0.997		1.00	100								
Vanadium	0.987		1.00	99								
Zinc	1.01		1.00	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_MSS_ICV_00077 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00179

Analyte	ICV 480-592485/5 08/10/2021 12:22				CCV 480-592485/18 08/10/2021 15:24				CCV 480-592485/30 08/10/2021 16:11			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	36.66		37.5	98	48.14		50.0	96	48.25		50.0	97
Antimony	0.792		0.750	106	0.962		1.00	96	0.954		1.00	95
Arsenic	0.747		0.750	100	0.980		1.00	98	0.972		1.00	97
Barium	0.742		0.750	99	1.00		1.00	100	1.00		1.00	100
Beryllium	0.742		0.750	99	0.986		1.00	99	0.985		1.00	98
Cadmium	0.743		0.750	99	0.951		1.00	95	0.947		1.00	95
Calcium	37.10		37.5	99	48.30		50.0	97	48.46		50.0	97
Chromium	0.756		0.750	101	0.975		1.00	98	0.973		1.00	97
Cobalt	0.735		0.750	98	1.00		1.00	100	0.999		1.00	100
Copper	0.719		0.750	96	0.977		1.00	98	0.979		1.00	98
Iron	37.57		37.5	100	48.77		50.0	98	49.01		50.0	98
Lead	0.744		0.750	99	0.996		1.00	100	0.995		1.00	100
Magnesium	36.65		37.5	98	47.42		50.0	95	47.44		50.0	95
Manganese	0.757		0.750	101	0.978		1.00	98	0.978		1.00	98
Nickel	0.735		0.750	98	0.985		1.00	99	0.984		1.00	98
Selenium	0.743		0.750	99	0.961		1.00	96	0.961		1.00	96
Silver	0.744		0.750	99	0.947		1.00	95	0.945		1.00	95
Sodium	37.68		37.5	100	49.15		50.0	98	49.18		50.0	98
Thallium	0.753		0.750	100	0.995		1.00	99	0.997		1.00	100
Vanadium	0.744		0.750	99	0.984		1.00	98	0.985		1.00	99
Zinc	0.746		0.750	100	1.01		1.00	101	1.01		1.00	101
Potassium	36.88		37.5	98	48.80		50.0	98	48.99		50.0	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_MSS_ICV_00077 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00179

Analyte	CCV 480-592485/42 08/10/2021 16:56				CCV 480-592485/51 08/10/2021 17:41							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	47.50		50.0	95	47.48		50.0	95				
Antimony	0.949		1.00	95	0.948		1.00	95				
Arsenic	0.975		1.00	97	0.967		1.00	97				
Barium	1.01		1.00	101	1.01		1.00	101				
Beryllium	0.981		1.00	98	0.983		1.00	98				
Cadmium	0.938		1.00	94	0.936		1.00	94				
Calcium	47.81		50.0	96	48.00		50.0	96				
Chromium	0.964		1.00	96	0.963		1.00	96				
Cobalt	1.01		1.00	101	1.00		1.00	100				
Copper	0.976		1.00	98	0.975		1.00	97				
Iron	48.05		50.0	96	48.02		50.0	96				
Lead	1.00		1.00	100	1.00		1.00	100				
Magnesium	46.81		50.0	94	46.55		50.0	93				
Manganese	0.972		1.00	97	0.967		1.00	97				
Nickel	0.988		1.00	99	0.985		1.00	98				
Selenium	0.965		1.00	96	0.964		1.00	96				
Silver	0.933		1.00	93	0.926		1.00	93				
Sodium	48.84		50.0	98	48.89		50.0	98				
Thallium	1.00		1.00	100	0.999		1.00	100				
Vanadium	0.982		1.00	98	0.983		1.00	98				
Zinc	1.02		1.00	102	1.02		1.00	102				
Potassium	48.81		50.0	98	48.94		50.0	98				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_10_CCVL_00386 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00386

Analyte	ICVL 480-592475/7 08/10/2021 12:30				CCVL 480-592475/17 08/10/2021 13:15				CCVL 480-592475/29 08/10/2021 14:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.208		0.200	104	0.217		0.200	109	0.202		0.200	101
Antimony	0.0196	J	0.0200	98	0.0197	J	0.0200	98	0.0196	J	0.0200	98
Arsenic	0.0142	J	0.0150	94	0.0155		0.0150	104	0.0153		0.0150	102
Barium	0.00217		0.00200	109	0.00217		0.00200	109	0.00217		0.00200	109
Beryllium	0.00202		0.00200	101	0.00190	J	0.00200	95	0.00194	J	0.00200	97
Cadmium	0.00194	J	0.00200	97	0.00183	J	0.00200	92	0.00188	J	0.00200	94
Calcium	0.501		0.500	100	0.491	J	0.500	98	0.487	J	0.500	97
Chromium	0.00413		0.00400	103	0.00422		0.00400	106	0.00373	J	0.00400	93
Cobalt	0.00398	J	0.00400	100	0.00421		0.00400	105	0.00410		0.00400	103
Copper	0.00936	J	0.0100	94	0.00957	J	0.0100	96	0.00930	J	0.0100	93
Iron	0.0511		0.0500	102	0.0482	J	0.0500	96	0.0462	J	0.0500	92
Lead	0.00956	J	0.0100	96	0.00998	J	0.0100	100	0.00951	J	0.0100	95
Magnesium	0.204		0.200	102	0.196	J	0.200	98	0.191	J	0.200	95
Manganese	0.00328		0.00300	109	0.00323		0.00300	108	0.00317		0.00300	106
Nickel	0.00971	J	0.0100	97	0.00950	J	0.0100	95	0.00948	J	0.0100	95
Potassium	0.441	J	0.500	88	0.400	J	0.500	80	0.371	J	0.500	74
Selenium	0.0258		0.0250	103	0.0246	J	0.0250	98	0.0256		0.0250	102
Silver	0.00575	J	0.00600	96	0.00563	J	0.00600	94	0.00553	J	0.00600	92
Sodium	1.02		1.01	102	1.02		1.01	101	1.01		1.01	100
Thallium	0.0192	J	0.0200	96	0.0186	J	0.0200	93	0.0191	J	0.0200	95
Vanadium	0.00474	J	0.00500	95	0.00488	J	0.00500	98	0.00478	J	0.00500	96
Zinc	0.00940	J	0.0100	94	0.0101		0.0100	101	0.00990	J	0.0100	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_10_CCVL_00386 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00386

Analyte	CCVL 480-592475/41 08/10/2021 14:46											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.194	J	0.200	97								
Antimony	0.0193	J	0.0200	96								
Arsenic	0.0148	J	0.0150	99								
Barium	0.00217		0.00200	109								
Beryllium	0.00192	J	0.00200	96								
Cadmium	0.00186	J	0.00200	93								
Calcium	0.488	J	0.500	98								
Chromium	0.00407		0.00400	102								
Cobalt	0.00412		0.00400	103								
Copper	0.00954	J	0.0100	95								
Iron	0.0464	J	0.0500	93								
Lead	0.00932	J	0.0100	93								
Magnesium	0.191	J	0.200	96								
Manganese	0.00318		0.00300	106								
Nickel	0.00953	J	0.0100	95								
Potassium	0.378	J	0.500	76								
Selenium	0.0238	J	0.0250	95								
Silver	0.00620		0.00600	103								
Sodium	1.00		1.01	99								
Thallium	0.0179	J	0.0200	89								
Vanadium	0.00489	J	0.00500	98								
Zinc	0.00962	J	0.0100	96								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_10_CCVL_00386 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00386

Analyte	ICVL 480-592485/7 08/10/2021 12:30				CCVL 480-592485/20 08/10/2021 15:32				CCVL 480-592485/32 08/10/2021 16:18			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.208		0.200	104	0.196	J	0.200	98	0.208		0.200	104
Antimony	0.0196	J	0.0200	98	0.0184	J	0.0200	92	0.0199	J	0.0200	99
Arsenic	0.0142	J	0.0150	94	0.0136	J	0.0150	91	0.0141	J	0.0150	94
Barium	0.00217		0.00200	109	0.00219		0.00200	110	0.00220		0.00200	110
Beryllium	0.00202		0.00200	101	0.00192	J	0.00200	96	0.00194	J	0.00200	97
Cadmium	0.00194	J	0.00200	97	0.00173	J	0.00200	87	0.00184	J	0.00200	92
Calcium	0.501		0.500	100	0.486	J	0.500	97	0.485	J	0.500	97
Chromium	0.00413		0.00400	103	0.00384	J	0.00400	96	0.00417		0.00400	104
Cobalt	0.00398	J	0.00400	100	0.00386	J	0.00400	97	0.00407		0.00400	102
Copper	0.00936	J	0.0100	94	0.00933	J	0.0100	93	0.00919	J	0.0100	92
Iron	0.0511		0.0500	102	0.0461	J	0.0500	92	0.0467	J	0.0500	93
Lead	0.00956	J	0.0100	96	0.00983	J	0.0100	98	0.00962	J	0.0100	96
Magnesium	0.204		0.200	102	0.188	J	0.200	94	0.187	J	0.200	93
Manganese	0.00328		0.00300	109	0.00315		0.00300	105	0.00321		0.00300	107
Nickel	0.00971	J	0.0100	97	0.00966	J	0.0100	97	0.00942	J	0.0100	94
Selenium	0.0258		0.0250	103	0.0237	J	0.0250	95	0.0239	J	0.0250	96
Silver	0.00575	J	0.00600	96	0.00563	J	0.00600	94	0.00559	J	0.00600	93
Sodium	1.02		1.01	102	1.00		1.01	100	1.01		1.01	101
Thallium	0.0192	J	0.0200	96	0.0192	J	0.0200	96	0.0186	J	0.0200	93
Vanadium	0.00474	J	0.00500	95	0.00454	J	0.00500	91	0.00471	J	0.00500	94
Zinc	0.00940	J	0.0100	94	0.00973	J	0.0100	97	0.00985	J	0.0100	99
Potassium	0.441	J	0.500	88	0.402	J	0.500	80				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_10_CCVL_00386 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00386

Analyte	CCVL 480-592485/44 08/10/2021 17:03				CCVL 480-592485/53 08/10/2021 17:49							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.191	J	0.200	96	0.204		0.200	102				
Antimony	0.0179	J	0.0200	89	0.0191	J	0.0200	96				
Arsenic	0.0135	J	0.0150	90	0.0160		0.0150	107				
Barium	0.00220		0.00200	110	0.00220		0.00200	110				
Beryllium	0.00192	J	0.00200	96	0.00187	J	0.00200	94				
Cadmium	0.00191	J	0.00200	96	0.00189	J	0.00200	95				
Calcium	0.480	J	0.500	96	0.489	J	0.500	98				
Chromium	0.00381	J	0.00400	95	0.00382	J	0.00400	96				
Cobalt	0.00409		0.00400	102	0.00410		0.00400	103				
Copper	0.00955	J	0.0100	96	0.00921	J	0.0100	92				
Iron	0.0451	J	0.0500	90	0.0475	J	0.0500	95				
Lead	0.00992	J	0.0100	99	0.00946	J	0.0100	95				
Magnesium	0.190	J	0.200	95	0.189	J	0.200	95				
Manganese	0.00314		0.00300	105	0.00315		0.00300	105				
Nickel	0.00957	J	0.0100	96	0.00946	J	0.0100	95				
Selenium	0.0235	J	0.0250	94	0.0256		0.0250	102				
Silver	0.00521	J	0.00600	87	0.00542	J	0.00600	90				
Sodium	1.00		1.01	99	0.993	J	1.01	99				
Thallium	0.0191	J	0.0200	95	0.0184	J	0.0200	92				
Vanadium	0.00480	J	0.00500	96	0.00498	J	0.00500	100				
Zinc	0.00989	J	0.0100	99	0.00967	J	0.0100	97				
Potassium												

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_MSS_ICV_00077 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00180

Analyte	ICV 480-592610/5 08/11/2021 11:50				CCV 480-592610/18 08/11/2021 14:04				CCV 480-592610/23 08/11/2021 14:49			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Potassium	36.79		37.5	98	50.59		50.0	101	49.56		50.0	99
Aluminum	36.72		37.5	98	49.78		50.0	100	49.03		50.0	98
Antimony	0.793		0.750	106	0.965		1.00	97	0.960		1.00	96
Arsenic	0.748		0.750	100	0.979		1.00	98	0.978		1.00	98
Barium	0.738		0.750	98	1.03		1.00	103	1.02		1.00	102
Beryllium	0.735		0.750	98	1.02		1.00	102	1.00		1.00	100
Cadmium	0.746		0.750	99	0.957		1.00	96	0.958		1.00	96
Calcium	36.87		37.5	98	50.09		50.0	100	49.15		50.0	98
Chromium	0.764		0.750	102	0.981		1.00	98	0.980		1.00	98
Cobalt	0.737		0.750	98	1.00		1.00	100	1.00		1.00	100
Copper	0.727		0.750	97	0.960		1.00	96	0.976		1.00	98
Iron	37.87		37.5	101	50.39		50.0	101	50.27		50.0	101
Lead	0.745		0.750	99	0.999		1.00	100	1.00		1.00	100
Magnesium	37.35		37.5	100	47.52		50.0	95	47.84		50.0	96
Manganese	0.767		0.750	102	0.981		1.00	98	0.993		1.00	99
Nickel	0.737		0.750	98	0.990		1.00	99	0.992		1.00	99
Selenium	0.746		0.750	99	0.974		1.00	97	0.969		1.00	97
Silver	0.754		0.750	100	0.952		1.00	95	0.961		1.00	96
Sodium	37.67		37.5	100	50.59		50.0	101	50.03		50.0	100
Thallium	0.754		0.750	101	1.00		1.00	100	1.01		1.00	101
Vanadium	0.745		0.750	99	0.989		1.00	99	0.988		1.00	99
Zinc	0.749		0.750	100	1.02		1.00	102	1.02		1.00	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_MSS_ICV_00077 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00180

Analyte	CCV 480-592610/35 08/11/2021 15:34				CCV 480-592610/44 08/11/2021 16:20							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Potassium	49.82		50.0	100	49.93		50.0	100				
Aluminum	49.07		50.0	98	49.76		50.0	100				
Antimony	0.956		1.00	96	0.965		1.00	96				
Arsenic	0.977		1.00	98	0.981		1.00	98				
Barium	1.03		1.00	103	1.02		1.00	102				
Beryllium	1.01		1.00	101	1.02		1.00	102				
Cadmium	0.943		1.00	94	0.959		1.00	96				
Calcium	49.26		50.0	99	49.85		50.0	100				
Chromium	0.977		1.00	98	0.983		1.00	98				
Cobalt	1.01		1.00	101	1.00		1.00	100				
Copper	0.967		1.00	97	0.969		1.00	97				
Iron	50.34		50.0	101	50.47		50.0	101				
Lead	1.00		1.00	100	0.998		1.00	100				
Magnesium	47.62		50.0	95	47.78		50.0	96				
Manganese	0.988		1.00	99	0.987		1.00	99				
Nickel	0.989		1.00	99	0.990		1.00	99				
Selenium	0.954		1.00	95	0.972		1.00	97				
Silver	0.951		1.00	95	0.957		1.00	96				
Sodium	50.17		50.0	100	50.18		50.0	100				
Thallium	1.00		1.00	100	1.00		1.00	100				
Vanadium	0.987		1.00	99	0.990		1.00	99				
Zinc	1.03		1.00	103	1.02		1.00	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_10_CCVL_00386 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00386

Analyte	ICVL 480-592610/7 08/11/2021 11:58				CCVL 480-592610/20 08/11/2021 14:11				CCVL 480-592610/25 08/11/2021 14:57			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Potassium	0.520		0.500	104	0.487	J	0.500	97	0.499	J	0.500	100
Aluminum	0.186	J	0.200	93	0.180	J	0.200	90	0.181	J	0.200	90
Antimony	0.0189	J	0.0200	94	0.0193	J	0.0200	96	0.0179	J	0.0200	90
Arsenic	0.0127	J	0.0150	85	0.0115	J	0.0150	77	0.0138	J	0.0150	92
Barium	0.00218		0.00200	109	0.00219		0.00200	110	0.00220		0.00200	110
Beryllium	0.00201		0.00200	101	0.00200		0.00200	100	0.00195	J	0.00200	98
Cadmium	0.00194	J	0.00200	97	0.00188	J	0.00200	94	0.00177	J	0.00200	89
Calcium	0.496	J	0.500	99	0.499	J	0.500	100	0.497	J	0.500	99
Chromium	0.00408		0.00400	102	0.00399	J	0.00400	100	0.00423		0.00400	106
Cobalt	0.00373	J	0.00400	93	0.00380	J	0.00400	95	0.00396	J	0.00400	99
Copper	0.00966	J	0.0100	97	0.00946	J	0.0100	95	0.00938	J	0.0100	94
Iron	0.0563		0.0500	113	0.0528		0.0500	106	0.0577		0.0500	115
Lead	0.00917	J	0.0100	92	0.00911	J	0.0100	91	0.00919	J	0.0100	92
Magnesium	0.199	J	0.200	99	0.197	J	0.200	99	0.195	J	0.200	97
Manganese	0.00327		0.00300	109	0.00324		0.00300	108	0.00328		0.00300	109
Nickel	0.00968	J	0.0100	97	0.00968	J	0.0100	97	0.00969	J	0.0100	97
Selenium	0.0220	J	0.0250	88	0.0227	J	0.0250	91	0.0242	J	0.0250	97
Silver	0.00608		0.00600	101	0.00617		0.00600	103	0.00596	J	0.00600	99
Sodium	1.03		1.01	103	1.03		1.01	102	1.03		1.01	103
Thallium	0.0192	J	0.0200	96	0.0191	J	0.0200	96	0.0195	J	0.0200	98
Vanadium	0.00470	J	0.00500	94	0.00459	J	0.00500	92	0.00478	J	0.00500	96
Zinc	0.00997	J	0.0100	100	0.00997	J	0.0100	100	0.0103		0.0100	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_10_CCVL_00386 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00386

Analyte	CCVL 480-592610/37 08/11/2021 15:42				CCVL 480-592610/46 08/11/2021 16:28							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Potassium	0.479	J	0.500	96	0.481	J	0.500	96				
Aluminum	0.187	J	0.200	93	0.193	J	0.200	97				
Antimony	0.0175	J	0.0200	87	0.0190	J	0.0200	95				
Arsenic	0.0135	J	0.0150	90	0.0115	J	0.0150	76				
Barium	0.00219		0.00200	110	0.00218		0.00200	109				
Beryllium	0.00202		0.00200	101	0.00201		0.00200	101				
Cadmium	0.00189	J	0.00200	95	0.00173	J	0.00200	87				
Calcium	0.505		0.500	101	0.495	J	0.500	99				
Chromium	0.00412		0.00400	103	0.00395	J	0.00400	99				
Cobalt	0.00398	J	0.00400	100	0.00390	J	0.00400	98				
Copper	0.00877	J	0.0100	88	0.00901	J	0.0100	90				
Iron	0.0554		0.0500	111	0.0554		0.0500	111				
Lead	0.00946	J	0.0100	95	0.00992	J	0.0100	99				
Magnesium	0.192	J	0.200	96	0.196	J	0.200	98				
Manganese	0.00318		0.00300	106	0.00322		0.00300	107				
Nickel	0.00966	J	0.0100	97	0.00963	J	0.0100	96				
Selenium	0.0228	J	0.0250	91	0.0231	J	0.0250	92				
Silver	0.00589	J	0.00600	98	0.00601		0.00600	100				
Sodium	1.04		1.01	104	1.02		1.01	102				
Thallium	0.0193	J	0.0200	97	0.0199	J	0.0200	99				
Vanadium	0.00477	J	0.00500	95	0.00452	J	0.00500	90				
Zinc	0.0103		0.0100	103	0.00915	J	0.0100	92				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_MSS_ICV_00078 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00180

Analyte	ICV 480-593051/5 08/16/2021 14:51				CCV 480-593051/17 08/16/2021 19:39				CCV 480-593051/21 08/16/2021 20:25			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Potassium	36.86		37.5	98	48.31		50.0	97	48.34		50.0	97
Zinc	0.743		0.750	99	1.00		1.00	100	0.995		1.00	99
Aluminum	36.72		37.5	98	48.16		50.0	96	47.92		50.0	96
Antimony	0.782		0.750	104	0.963		1.00	96	0.968		1.00	97
Arsenic	0.737		0.750	98	0.966		1.00	97	0.965		1.00	96
Barium	0.731		0.750	97	0.973		1.00	97	0.969		1.00	97
Beryllium	0.735		0.750	98	0.972		1.00	97	0.973		1.00	97
Cadmium	0.737		0.750	98	0.974		1.00	97	0.974		1.00	97
Calcium	37.35		37.5	100	48.37		50.0	97	48.39		50.0	97
Chromium	0.745		0.750	99	0.966		1.00	97	0.963		1.00	96
Cobalt	0.727		0.750	97	0.967		1.00	97	0.964		1.00	96
Copper	0.699		0.750	93	0.939		1.00	94	0.934		1.00	93
Iron	37.43		37.5	100	48.55		50.0	97	48.04		50.0	96
Lead	0.736		0.750	98	0.972		1.00	97	0.970		1.00	97
Magnesium	36.33		37.5	97	47.13		50.0	94	46.77		50.0	94
Manganese	0.742		0.750	99	0.959		1.00	96	0.952		1.00	95
Nickel	0.728		0.750	97	0.966		1.00	97	0.964		1.00	96
Selenium	0.736		0.750	98	0.963		1.00	96	0.960		1.00	96
Silver	0.731		0.750	97	0.939		1.00	94	0.936		1.00	94
Sodium	37.59		37.5	100	48.60		50.0	97	48.37		50.0	97
Thallium	0.740		0.750	99	0.975		1.00	97	0.974		1.00	97
Vanadium	0.735		0.750	98	0.974		1.00	97	0.971		1.00	97

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_MSS_ICV_00078 Concentration Units: mg/L

CCV Source: MEI_MSS_STD2_00180

Analyte	CCV 480-593051/33 08/16/2021 21:12				CCV 480-593051/40 08/16/2021 21:57							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Potassium	48.18		50.0	96	52.24		50.0	104				
Zinc	1.00		1.00	100	1.08		1.00	108				
Aluminum	48.11		50.0	96	52.36		50.0	105				
Antimony	0.968		1.00	97	1.05		1.00	105				
Arsenic	0.966		1.00	97	1.05		1.00	105				
Barium	0.970		1.00	97	1.05		1.00	105				
Beryllium	0.971		1.00	97	1.05		1.00	105				
Cadmium	0.969		1.00	97	1.06		1.00	106				
Calcium	48.36		50.0	97	52.55		50.0	105				
Chromium	0.968		1.00	97	1.06		1.00	106				
Cobalt	0.963		1.00	96	1.04		1.00	104				
Copper	0.950		1.00	95	1.03		1.00	103				
Iron	48.38		50.0	97	52.10		50.0	104				
Lead	0.967		1.00	97	1.05		1.00	105				
Magnesium	47.55		50.0	95	51.61		50.0	103				
Manganese	0.965		1.00	96	1.05		1.00	105				
Nickel	0.964		1.00	96	1.05		1.00	105				
Selenium	0.961		1.00	96	1.05		1.00	105				
Silver	0.950		1.00	95	1.04		1.00	104				
Sodium	48.54		50.0	97	52.42		50.0	105				
Thallium	0.975		1.00	97	1.05		1.00	105				
Vanadium	0.973		1.00	97	1.06		1.00	106				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_10_CCVL_00389 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00389

Analyte	ICVL 480-593051/7 08/16/2021 14:58				CCVL 480-593051/19 08/16/2021 19:46				CCVL 480-593051/23 08/16/2021 20:33			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Potassium	0.466	J	0.500	93	0.418	J	0.500	84	0.404	J	0.500	81
Zinc	0.00956	J	0.0100	96	0.00949	J	0.0100	95	0.00957	J	0.0100	96
Aluminum	0.189	J	0.200	95	0.189	J	0.200	95	0.165	J	0.200	83
Antimony	0.0190	J	0.0200	95	0.0203		0.0200	102	0.0217		0.0200	109
Arsenic	0.0156		0.0150	104	0.0136	J	0.0150	91	0.0129	J	0.0150	86
Barium	0.00215		0.00200	108	0.00211		0.00200	106	0.00210		0.00200	105
Beryllium	0.00199	J	0.00200	100	0.00200		0.00200	100	0.00188	J	0.00200	94
Cadmium	0.00189	J	0.00200	95	0.00193	J	0.00200	97	0.00189	J	0.00200	95
Calcium	0.502		0.500	100	0.490	J	0.500	98	0.485	J	0.500	97
Chromium	0.00376	J	0.00400	94	0.00403		0.00400	101	0.00393	J	0.00400	98
Cobalt	0.00377	J	0.00400	94	0.00375	J	0.00400	94	0.00370	J	0.00400	93
Copper	0.00936	J	0.0100	94	0.00903	J	0.0100	90	0.00897	J	0.0100	90
Iron	0.0488	J	0.0500	98	0.0448	J	0.0500	90	0.0516		0.0500	103
Lead	0.00953	J	0.0100	95	0.00898	J	0.0100	90	0.00882	J	0.0100	88
Magnesium	0.197	J	0.200	99	0.192	J	0.200	96	0.187	J	0.200	93
Manganese	0.00323		0.00300	108	0.00306		0.00300	102	0.00300		0.00300	100
Nickel	0.00940	J	0.0100	94	0.00927	J	0.0100	93	0.00933	J	0.0100	93
Selenium	0.0213	J	0.0250	85	0.0199	J	0.0250	80	0.0182	J	0.0250	73
Silver	0.00614		0.00600	102	0.00548	J	0.00600	91	0.00591	J	0.00600	99
Sodium	1.01		1.01	101	1.00		1.01	99	0.988	J	1.01	98
Thallium	0.0193	J	0.0200	97	0.0184	J	0.0200	92	0.0191	J	0.0200	95
Vanadium	0.00481	J	0.00500	96	0.00445	J	0.00500	89	0.00449	J	0.00500	90

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEI_10_CCVL_00389 Concentration Units: mg/L

CCV Source: MEI_10_CCVL_00389

Analyte	CCVL 480-593051/35 08/16/2021 21:19				CCVL 480-593051/42 08/16/2021 22:05							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Potassium	0.385	J	0.500	77	0.388	J	0.500	78				
Zinc	0.00937	J	0.0100	94	0.00944	J	0.0100	94				
Aluminum	0.194	J	0.200	97	0.177	J	0.200	89				
Antimony	0.0189	J	0.0200	94	0.0197	J	0.0200	99				
Arsenic	0.0128	J	0.0150	85	0.0124	J	0.0150	83				
Barium	0.00208		0.00200	104	0.00206		0.00200	103				
Beryllium	0.00194	J	0.00200	97	0.00200		0.00200	100				
Cadmium	0.00194	J	0.00200	97	0.00183	J	0.00200	92				
Calcium	0.491	J	0.500	98	0.487	J	0.500	97				
Chromium	0.00390	J	0.00400	98	0.00406		0.00400	102				
Cobalt	0.00366	J	0.00400	92	0.00375	J	0.00400	94				
Copper	0.00898	J	0.0100	90	0.00868	J	0.0100	87				
Iron	0.0471	J	0.0500	94	0.0428	J	0.0500	86				
Lead	0.00866	J	0.0100	87	0.00988	J	0.0100	99				
Magnesium	0.190	J	0.200	95	0.189	J	0.200	94				
Manganese	0.00303		0.00300	101	0.00294	J	0.00300	98				
Nickel	0.00931	J	0.0100	93	0.00941	J	0.0100	94				
Selenium	0.0190	J	0.0250	76	0.0194	J	0.0250	78				
Silver	0.00545	J	0.00600	91	0.00594	J	0.00600	99				
Sodium	0.994	J	1.01	99	0.977	J	1.01	97				
Thallium	0.0188	J	0.0200	94	0.0196	J	0.0200	98				
Vanadium	0.00463	J	0.00500	93	0.00474	J	0.00500	95				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEH_HG1_WKG_02623 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02623

Analyte	ICV 480-592428/7 08/10/2021 16:31				ICVL 480-592428/9 08/10/2021 16:33				CCV 480-592428/34 08/10/2021 17:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00304		0.00300	101	0.000190	J	0.000200	95	0.00205		0.00200	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEH_HG1_WKG_02623 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02623

Analyte	CCV 480-592428/46 08/10/2021 17:22				CCV 480-592428/58 08/10/2021 17:37				CCVL 480-592428/100 08/10/2021 18:32			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00204		0.00200	102	0.00206		0.00200	103	0.000190	J	0.000200	95

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEH_HG1_WKG_02625 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02625

Analyte	ICV 480-592594/7 08/11/2021 16:07				ICVL 480-592594/9 08/11/2021 16:10				CCV 480-592594/58 08/11/2021 17:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00302		0.00300	101	0.000200		0.000200	100	0.00203		0.00200	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEH_HG1_WKG_02625 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02625

Analyte	CCV 480-592594/70 08/11/2021 17:29				CCV 480-592594/82 08/11/2021 17:45				CCV 480-592594/94 08/11/2021 18:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00203		0.00200	102	0.00202		0.00200	101	0.00202		0.00200	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

ICV Source: MEH_HG1_WKG_02625 Concentration Units: mg/L

CCV Source: MEH_HG1_WKG_02625

Analyte	CCVL 480-592594/108 08/11/2021 18:19											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.000190	J	0.000200	95								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-592475/6 08/10/2021 12:26		CCB 480-592475/16 08/10/2021 13:04		CCB 480-592475/28 08/10/2021 13:56		CCB 480-592475/40 08/10/2021 14:42	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-592485/6 08/10/2021 12:26		CCB 480-592485/19 08/10/2021 15:28		CCB 480-592485/31 08/10/2021 16:14		CCB 480-592485/43 08/10/2021 17:00	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	
Potassium	0.50	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-592485/52 08/10/2021 17:45							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.20	ND							
Antimony	0.020	ND							
Arsenic	0.015	ND							
Barium	0.0020	ND							
Beryllium	0.0020	ND							
Cadmium	0.0020	ND							
Calcium	0.50	ND							
Chromium	0.0040	ND							
Cobalt	0.0040	ND							
Copper	0.010	ND							
Iron	0.050	ND							
Lead	0.010	ND							
Magnesium	0.20	ND							
Manganese	0.0030	ND							
Nickel	0.010	ND							
Selenium	0.025	ND							
Silver	0.0060	ND							
Sodium	1.0	ND							
Thallium	0.020	ND							
Vanadium	0.0050	ND							
Zinc	0.010	ND							
Potassium	0.50	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-592610/6 08/11/2021 11:54		CCB 480-592610/19 08/11/2021 14:08		CCB 480-592610/24 08/11/2021 14:53		CCB 480-592610/36 08/11/2021 15:38	
		Found	C	Found	C	Found	C	Found	C
Potassium	0.50	ND		ND		ND		ND	
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-592610/45 08/11/2021 16:24							
		Found	C	Found	C	Found	C	Found	C
Potassium	0.50	ND							
Aluminum	0.20	ND							
Antimony	0.020	ND							
Arsenic	0.015	ND							
Barium	0.0020	ND							
Beryllium	0.0020	ND							
Cadmium	0.0020	ND							
Calcium	0.50	ND							
Chromium	0.0040	ND							
Cobalt	0.0040	ND							
Copper	0.010	ND							
Iron	0.050	ND							
Lead	0.010	ND							
Magnesium	0.20	ND							
Manganese	0.0030	ND							
Nickel	0.010	ND							
Selenium	0.025	ND							
Silver	0.0060	ND							
Sodium	1.0	ND							
Thallium	0.020	ND							
Vanadium	0.0050	ND							
Zinc	0.010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-593051/6 08/16/2021 14:55		CCB 480-593051/18 08/16/2021 19:42		CCB 480-593051/22 08/16/2021 20:29		CCB 480-593051/34 08/16/2021 21:15	
		Found	C	Found	C	Found	C	Found	C
Potassium	0.50	ND		ND		ND		ND	
Zinc	0.010	ND		ND		ND		ND	
Aluminum	0.20	ND		ND		ND		ND	
Antimony	0.020	ND		ND		ND		ND	
Arsenic	0.015	ND		ND		ND		ND	
Barium	0.0020	ND		ND		ND		ND	
Beryllium	0.0020	ND		ND		ND		ND	
Cadmium	0.0020	ND		ND		ND		ND	
Calcium	0.50	ND		ND		ND		ND	
Chromium	0.0040	ND		ND		ND		ND	
Cobalt	0.0040	ND		ND		ND		ND	
Copper	0.010	ND		ND		ND		ND	
Iron	0.050	ND		ND		ND		ND	
Lead	0.010	ND		ND		ND		ND	
Magnesium	0.20	ND		ND		ND		ND	
Manganese	0.0030	ND		ND		ND		ND	
Nickel	0.010	ND		ND		ND		ND	
Selenium	0.025	ND		ND		ND		ND	
Silver	0.0060	ND		ND		ND		ND	
Sodium	1.0	ND		ND		ND		ND	
Thallium	0.020	ND		ND		ND		ND	
Vanadium	0.0050	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-593051/41 08/16/2021 22:01							
		Found	C	Found	C	Found	C	Found	C
Potassium	0.50	ND							
Zinc	0.010	ND							
Aluminum	0.20	ND							
Antimony	0.020	ND							
Arsenic	0.015	ND							
Barium	0.0020	ND							
Beryllium	0.0020	ND							
Cadmium	0.0020	ND							
Calcium	0.50	ND							
Chromium	0.0040	ND							
Cobalt	0.0040	ND							
Copper	0.010	ND							
Iron	0.050	ND							
Lead	0.010	ND							
Magnesium	0.20	ND							
Manganese	0.0030	ND							
Nickel	0.010	ND							
Selenium	0.025	ND							
Silver	0.0060	ND							
Sodium	1.0	ND							
Thallium	0.020	ND							
Vanadium	0.0050	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-592428/8 08/10/2021 16:32		CCB 480-592428/35 08/10/2021 17:07		CCB 480-592428/47 08/10/2021 17:23		CCB 480-592428/59 08/10/2021 17:38	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 480-592594/8 08/11/2021 16:08		CCB 480-592594/59 08/11/2021 17:15		CCB 480-592594/71 08/11/2021 17:30		CCB 480-592594/83 08/11/2021 17:46	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 480-592594/95 08/11/2021 18:02							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-592076/1-A

Instrument Code: ICAP1 Batch No.: 592475

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	0.000500	J		6010C
7440-02-0	Nickel	ND			6010C
7440-09-7	Potassium	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-592077/1-A

Instrument Code: ICAP1 Batch No.: 592485

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	ND			6010C
7440-36-0	Antimony	ND			6010C
7440-38-2	Arsenic	ND			6010C
7440-39-3	Barium	ND			6010C
7440-41-7	Beryllium	ND			6010C
7440-43-9	Cadmium	ND			6010C
7440-70-2	Calcium	ND			6010C
7440-47-3	Chromium	ND			6010C
7440-48-4	Cobalt	ND			6010C
7440-50-8	Copper	ND			6010C
7439-89-6	Iron	ND			6010C
7439-92-1	Lead	ND			6010C
7439-95-4	Magnesium	ND			6010C
7439-96-5	Manganese	0.000590	J		6010C
7440-02-0	Nickel	ND			6010C
7782-49-2	Selenium	ND			6010C
7440-22-4	Silver	ND			6010C
7440-23-5	Sodium	ND			6010C
7440-28-0	Thallium	ND			6010C
7440-62-2	Vanadium	ND			6010C
7440-66-6	Zinc	0.00227	J		6010C

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-592077/1-A

Instrument Code: ICAP1 Batch No.: 592610

CAS No.	Analyte	Concentration	C	Q	Method
7440-09-7	Potassium	ND			6010C

FORM III-IN

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-592922/1-A

Instrument Code: ICAP1 Batch No.: 593051

CAS No.	Analyte	Concentration	C	Q	Method
7440-09-7	Potassium	ND			6010C
7440-66-6	Zinc	ND			6010C

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-592246/1-A

Instrument Code: LEEMAN5 Batch No.: 592428

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 480-592507/1-A

Instrument Code: LEEMAN5 Batch No.: 592594

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICSA 480-592475/8 Instrument ID: ICAP1

Lab File ID: I1081021C-1.asc ICS Source: MEI_MSS_ICSA_00031

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**497**	**99**
Antimony		**-0.0003**	
Arsenic		**-0.0011**	
Barium	**0.0120**	**0.0138**	
Beryllium		**-0.0001**	
Cadmium		**0.0008**	
Calcium	**500**	**467**	**93**
Chromium		**-0.0014**	
Cobalt		**-0.0002**	
Copper		**0.0000**	
Iron	**200**	**187**	**94**
Lead		**0.0001**	
Magnesium	**500**	**505**	**101**
Manganese		**-0.0005**	
Nickel		**0.0021**	
Potassium		**0.422**	
Selenium		**0.0000**	
Silver		**-0.0007**	
Sodium		**0.0505**	
Thallium		**0.0007**	
Vanadium		**-0.0014**	
Zinc		**0.0032**	
Boron		*-0.0014*	
Lithium		*0.0058*	
Molybdenum		*-0.0068*	
Silicon		*-0.0219*	
Sulfur		*-0.347*	
Tin		*-0.0013*	
Titanium		*0.0019*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICSA 480-592485/8 Instrument ID: ICAP1

Lab File ID: I1081021C-4.asc ICS Source: MEI_MSS_ICSA_00031

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500**	**497**	**99**
Antimony		**-0.0003**	
Arsenic		**-0.0011**	
Barium	**0.0120**	**0.0138**	
Beryllium		**-0.0001**	
Cadmium		**0.0008**	
Calcium	**500**	**467**	**93**
Chromium		**-0.0014**	
Cobalt		**-0.0002**	
Copper		**0.0000**	
Iron	**200**	**187**	**94**
Lead		**0.0001**	
Magnesium	**500**	**505**	**101**
Manganese		**-0.0005**	
Nickel		**0.0021**	
Selenium		**0.0000**	
Silver		**-0.0007**	
Sodium		**0.0505**	
Thallium		**0.0007**	
Vanadium		**-0.0014**	
Zinc		**0.0032**	
Boron		*-0.0014*	
Lithium		*0.0058*	
Molybdenum		*-0.0068*	
Potassium		*0.422*	
Silicon		*-0.0219*	
Sulfur		*-0.347*	
Tin		*-0.0013*	
Titanium		*0.0019*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICSAB 480-592475/9 Instrument ID: ICAP1

Lab File ID: I1081021C-1.asc ICS Source: MEI_MSS_ICSAB_00027

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**500**	**502**	**100**
Antimony	**0.500**	**0.516**	**103**
Arsenic	**0.500**	**0.505**	**101**
Barium	**0.501**	**0.526**	**105**
Beryllium	**0.250**	**0.247**	**99**
Cadmium	**0.500**	**0.524**	**105**
Calcium	**500**	**467**	**93**
Chromium	**0.500**	**0.488**	**98**
Cobalt	**0.500**	**0.504**	**101**
Copper	**0.500**	**0.518**	**104**
Iron	**200**	**189**	**95**
Lead	**0.500**	**0.502**	**100**
Magnesium	**500**	**507**	**101**
Manganese	**0.501**	**0.486**	**97**
Nickel	**0.501**	**0.496**	**99**
Potassium	**5.00**	**5.32**	**106**
Selenium	**0.500**	**0.490**	**98**
Silver	**0.500**	**0.530**	**106**
Sodium	**5.00**	**5.35**	**107**
Thallium	**0.500**	**0.492**	**98**
Vanadium	**0.500**	**0.490**	**98**
Zinc	**0.501**	**0.457**	**91**
Boron	*5.00*	*4.75*	*95*
Lithium		*0.0058*	
Molybdenum	*0.500*	*0.494*	*99*
Silicon	*5.00*	*4.85*	*97*
Strontium	*0.500*	*0.505*	*101*
Sulfur		*-0.391*	
Tin	*0.500*	*0.495*	*99*
Titanium	*0.500*	*0.497*	*99*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICSAB 480-592485/9 Instrument ID: ICAP1

Lab File ID: I1081021C-4.asc ICS Source: MEI_MSS_ICSAB_00027

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Aluminum	**500**	**502**	**100**
Antimony	**0.500**	**0.516**	**103**
Arsenic	**0.500**	**0.505**	**101**
Barium	**0.501**	**0.526**	**105**
Beryllium	**0.250**	**0.247**	**99**
Cadmium	**0.500**	**0.524**	**105**
Calcium	**500**	**467**	**93**
Chromium	**0.500**	**0.488**	**98**
Cobalt	**0.500**	**0.504**	**101**
Copper	**0.500**	**0.518**	**104**
Iron	**200**	**189**	**95**
Lead	**0.500**	**0.502**	**100**
Magnesium	**500**	**507**	**101**
Manganese	**0.501**	**0.486**	**97**
Nickel	**0.501**	**0.496**	**99**
Selenium	**0.500**	**0.490**	**98**
Silver	**0.500**	**0.530**	**106**
Sodium	**5.00**	**5.35**	**107**
Thallium	**0.500**	**0.492**	**98**
Vanadium	**0.500**	**0.490**	**98**
Zinc	**0.501**	**0.457**	**91**
Boron	*5.00*	*4.75*	*95*
Lithium		*0.0058*	
Molybdenum	*0.500*	*0.494*	*99*
Potassium	*5.00*	*5.32*	*106*
Silicon	*5.00*	*4.85*	*97*
Strontium	*0.500*	*0.505*	*101*
Sulfur		*-0.391*	
Tin	*0.500*	*0.495*	*99*
Titanium	*0.500*	*0.497*	*99*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICSA 480-592610/8 Instrument ID: ICAP1

Lab File ID: I1081121A-3.asc ICS Source: MEI_MSS_ICSA_00031

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Potassium		**0.148**	
Aluminum	*500*	*498*	*100*
Antimony		*0.0027*	
Arsenic		*-0.0044*	
Barium	*0.0120*	*0.0139*	
Beryllium		*-0.0001*	
Boron		*-0.0024*	
Cadmium		*0.0007*	
Calcium	*500*	*466*	*93*
Chromium		*-0.0015*	
Cobalt		*-0.0003*	
Copper		*0.0015*	
Iron	*200*	*189*	*95*
Lead		*-0.0010*	
Lithium		*0.0058*	
Magnesium	*500*	*513*	*103*
Manganese		*-0.0005*	
Molybdenum		*-0.0069*	
Nickel		*0.0023*	
Selenium		*-0.0075*	
Silicon		*-0.0013*	
Silver		*-0.0002*	
Sodium		*0.0730*	
Sulfur		*-0.356*	
Thallium		*-0.0005*	
Tin		*0.0009*	
Titanium		*0.0024*	
Vanadium		*-0.0017*	
Zinc		*0.0033*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICSAB 480-592610/9 Instrument ID: ICAP1

Lab File ID: I1081121A-3.asc ICS Source: MEI_MSS_ICSAB_00027

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Potassium	**5.00**	**5.35**	**107**
Aluminum	*500*	*503*	*101*
Antimony	*0.500*	*0.512*	*102*
Arsenic	*0.500*	*0.504*	*101*
Barium	*0.501*	*0.527*	*105*
Beryllium	*0.250*	*0.249*	*100*
Boron	*5.00*	*4.72*	*94*
Cadmium	*0.500*	*0.520*	*104*
Calcium	*500*	*469*	*94*
Chromium	*0.500*	*0.491*	*98*
Cobalt	*0.500*	*0.510*	*102*
Copper	*0.500*	*0.519*	*104*
Iron	*200*	*191*	*95*
Lead	*0.500*	*0.504*	*101*
Lithium		*0.0059*	
Magnesium	*500*	*510*	*102*
Manganese	*0.501*	*0.491*	*98*
Molybdenum	*0.500*	*0.493*	*99*
Nickel	*0.501*	*0.499*	*100*
Selenium	*0.500*	*0.488*	*98*
Silicon	*5.00*	*4.83*	*97*
Silver	*0.500*	*0.531*	*106*
Sodium	*5.00*	*5.40*	*108*
Strontium	*0.500*	*0.509*	*102*
Sulfur		*-0.408*	
Thallium	*0.500*	*0.498*	*100*
Tin	*0.500*	*0.502*	*100*
Titanium	*0.500*	*0.500*	*100*
Vanadium	*0.500*	*0.494*	*99*
Zinc	*0.501*	*0.465*	*93*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICSA 480-593051/8 Instrument ID: ICAP1

Lab File ID: I1081621A-5.asc ICS Source: MEI_MSS_ICSA_00031

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Potassium		**0.223**	
Zinc		**0.0031**	
Aluminum	*500*	*498*	*100*
Antimony		*0.0012*	
Arsenic		*-0.0041*	
Barium	*0.0120*	*0.0137*	
Beryllium		*0.0000*	
Boron		*0.0018*	
Cadmium		*0.0010*	
Calcium	*500*	*468*	*94*
Chromium		*-0.0016*	
Cobalt		*-0.0003*	
Copper		*0.0007*	
Iron	*200*	*187*	*93*
Lead		*-0.0014*	
Lithium		*0.0048*	
Magnesium	*500*	*498*	*100*
Manganese		*-0.0011*	
Molybdenum		*-0.0034*	
Nickel		*0.0022*	
Selenium		*0.0000*	
Silicon		*-0.0108*	
Silver		*-0.0002*	
Sodium		*0.0692*	
Sulfur		*-0.356*	
Thallium		*-0.0003*	
Tin		*-0.0004*	
Titanium		*0.0020*	
Vanadium		*-0.0015*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Lab Sample ID: ICSAB 480-593051/9 Instrument ID: ICAP1

Lab File ID: I1081621A-5.asc ICS Source: MEI_MSS_ICSAB_00027

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Potassium	**5.00**	**5.36**	**107**
Zinc	**0.501**	**0.461**	**92**
Aluminum	*500*	*502*	*100*
Antimony	*0.500*	*0.516*	*103*
Arsenic	*0.500*	*0.507*	*101*
Barium	*0.501*	*0.520*	*104*
Beryllium	*0.250*	*0.248*	*99*
Boron	*5.00*	*4.72*	*94*
Cadmium	*0.500*	*0.527*	*105*
Calcium	*500*	*475*	*95*
Chromium	*0.500*	*0.488*	*98*
Cobalt	*0.500*	*0.501*	*100*
Copper	*0.500*	*0.514*	*103*
Iron	*200*	*189*	*95*
Lead	*0.500*	*0.503*	*101*
Lithium		*0.0043*	
Magnesium	*500*	*507*	*101*
Manganese	*0.501*	*0.485*	*97*
Molybdenum	*0.500*	*0.496*	*99*
Nickel	*0.501*	*0.496*	*99*
Selenium	*0.500*	*0.486*	*97*
Silicon	*5.00*	*4.71*	*94*
Silver	*0.500*	*0.530*	*106*
Sodium	*5.00*	*5.34*	*107*
Strontium	*0.500*	*0.504*	*101*
Sulfur		*-0.394*	
Thallium	*0.500*	*0.492*	*98*
Tin	*0.500*	*0.497*	*99*
Titanium	*0.500*	*0.498*	*100*
Vanadium	*0.500*	*0.492*	*98*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-99-03 MS
Lab ID: 480-188016-1 MS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-188016-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	10.05		0.11	J	10.0	99	75-125		6010C
Antimony	0.219		ND		0.200	110	75-125		6010C
Arsenic	0.211		ND		0.200	105	75-125		6010C
Barium	0.310		0.094		0.200	108	75-125		6010C
Beryllium	0.209		ND		0.200	105	75-125		6010C
Cadmium	0.201		ND		0.200	100	75-125		6010C
Calcium	49.14		40.1		10.0	90	75-125	4	6010C
Chromium	0.213		0.016		0.200	98	75-125		6010C
Cobalt	0.199		ND		0.200	100	75-125		6010C
Copper	0.204		0.0061	J	0.200	99	75-125		6010C
Iron	9.72		0.062		10.0	97	75-125		6010C
Lead	0.204		ND		0.200	102	75-125		6010C
Magnesium	23.58		14.3		10.0	93	75-125		6010C
Manganese	0.206		0.0051		0.200	100	75-125		6010C
Nickel	0.216		0.017		0.200	99	75-125		6010C
Potassium	11.88		1.8		10.0	101	75-125		6010C
Selenium	0.194		ND		0.200	97	75-125		6010C
Silver	0.0470		ND		0.0500	94	75-125		6010C
Sodium	32.32		22.8		10.0	95	75-125		6010C
Thallium	0.205		ND		0.200	102	75-125		6010C
Vanadium	0.201		ND		0.200	101	75-125		6010C
Zinc	0.204		0.0028	J	0.200	100	75-125		6010C
Mercury	0.00667		ND		0.00667	100	80-120		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MW-99-03 MS
Lab ID: 480-188016-1 MS
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-188016-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9.71		ND		10.0	97	75-125		6010C
Antimony	0.428		ND		0.400	107	75-125		6010C
Arsenic	0.413		ND		0.400	103	75-125		6010C
Barium	0.314		0.096		0.200	109	75-125		6010C
Beryllium	0.414		ND		0.400	104	75-125		6010C
Cadmium	0.389		ND		0.400	97	75-125		6010C
Calcium	58.23		39.4		20.0	94	75-125		6010C
Chromium	0.399		0.015		0.400	96	75-125		6010C
Cobalt	0.401		ND		0.400	100	75-125		6010C
Copper	0.399		0.0056	J	0.400	98	75-125		6010C
Iron	18.89		ND		20.0	94	75-125		6010C
Lead	0.405		ND		0.400	101	75-125		6010C
Magnesium	32.68		14.0		20.0	93	75-125		6010C
Manganese	0.394		0.00047	J	0.400	98	75-125		6010C
Nickel	0.414		0.016		0.400	100	75-125		6010C
Potassium	12.15		1.9		10.0	103	75-125		6010C
Selenium	0.390		ND		0.400	97	75-125		6010C
Silver	0.0458		ND		0.0500	92	75-125		6010C
Sodium	32.20		22.6		10.0	95	75-125		6010C
Thallium	0.410		ND		0.400	103	75-125		6010C
Vanadium	0.398		ND		0.400	99	75-125		6010C
Zinc	0.402		0.0046	J	0.400	99	75-125		6010C
Mercury	0.00655		ND		0.00667	98	80-120		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: MW-99-03 MSD
Lab ID: 480-188016-1 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-188016-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	9.93		10.0	98	75-125	1	20		6010C
Antimony	0.217		0.200	108	75-125	1	20		6010C
Arsenic	0.207		0.200	104	75-125	2	20		6010C
Barium	0.309		0.200	108	75-125	0	20		6010C
Beryllium	0.208		0.200	104	75-125	0	20		6010C
Cadmium	0.199		0.200	100	75-125	1	20		6010C
Calcium	49.85		10.0	98	75-125	1	20	4	6010C
Chromium	0.210		0.200	97	75-125	1	20		6010C
Cobalt	0.198		0.200	99	75-125	1	20		6010C
Copper	0.202		0.200	98	75-125	1	20		6010C
Iron	9.64		10.0	96	75-125	1	20		6010C
Lead	0.202		0.200	101	75-125	1	20		6010C
Magnesium	23.66		10.0	93	75-125	0	20		6010C
Manganese	0.204		0.200	99	75-125	1	20		6010C
Nickel	0.214		0.200	99	75-125	1	20		6010C
Potassium	11.85		10.0	101	75-125	0	20		6010C
Selenium	0.195		0.200	97	75-125	0	20		6010C
Silver	0.0464		0.0500	93	75-125	1	20		6010C
Sodium	32.64		10.0	98	75-125	1	20		6010C
Thallium	0.202		0.200	101	75-125	1	20		6010C
Vanadium	0.199		0.200	99	75-125	1	20		6010C
Zinc	0.203		0.200	100	75-125	0	20		6010C
Mercury	0.00682		0.00667	102	80-120	2	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MW-99-03 MSD
Lab ID: 480-188016-1 MSD
Lab Name: Eurofins TestAmerica, Buffalo
Job No.: 480-188016-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	9.78		10.0	98	75-125	1	20		6010C
Antimony	0.430		0.400	107	75-125	0	20		6010C
Arsenic	0.420		0.400	105	75-125	2	20		6010C
Barium	0.317		0.200	111	75-125	1	20		6010C
Beryllium	0.419		0.400	105	75-125	1	20		6010C
Cadmium	0.393		0.400	98	75-125	1	20		6010C
Calcium	58.64		20.0	96	75-125	1	20		6010C
Chromium	0.405		0.400	98	75-125	2	20		6010C
Cobalt	0.408		0.400	102	75-125	2	20		6010C
Copper	0.404		0.400	100	75-125	1	20		6010C
Iron	19.15		20.0	96	75-125	1	20		6010C
Lead	0.415		0.400	104	75-125	2	20		6010C
Magnesium	33.14		20.0	95	75-125	1	20		6010C
Manganese	0.400		0.400	100	75-125	2	20		6010C
Nickel	0.419		0.400	101	75-125	1	20		6010C
Potassium	12.27		10.0	104	75-125	1	20		6010C
Selenium	0.394		0.400	98	75-125	1	20		6010C
Silver	0.0442		0.0500	88	75-125	4	20		6010C
Sodium	32.48		10.0	98	75-125	1	20		6010C
Thallium	0.417		0.400	104	75-125	2	20		6010C
Vanadium	0.403		0.400	101	75-125	1	20		6010C
Zinc	0.410		0.400	101	75-125	2	20		6010C
Mercury	0.00660		0.00667	99	80-120	1	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: MW-99-03 PDS | Lab ID: 480-188016-1 PDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG No.:

Matrix: Water | Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9.87		0.11	J	10.0	98	80-120		6010C
Antimony	0.211		ND		0.200	106	80-120		6010C
Arsenic	0.209		ND		0.200	105	80-120		6010C
Barium	0.309		0.094		0.200	107	80-120		6010C
Beryllium	0.210		ND		0.200	105	80-120		6010C
Cadmium	0.202		ND		0.200	101	80-120		6010C
Calcium	48.99		40.1		10.0	89	80-120		6010C
Chromium	0.213		0.016		0.200	98	80-120		6010C
Cobalt	0.201		ND		0.200	100	80-120		6010C
Copper	0.206		0.0061	J	0.200	100	80-120		6010C
Iron	9.78		0.062		10.0	97	80-120		6010C
Lead	0.204		ND		0.200	102	80-120		6010C
Magnesium	23.55		14.3		10.0	92	80-120		6010C
Manganese	0.207		0.0051		0.200	101	80-120		6010C
Nickel	0.217		0.017		0.200	100	80-120		6010C
Potassium	11.83		1.8		10.0	101	80-120		6010C
Selenium	0.194		ND		0.200	97	80-120		6010C
Silver	0.0480		ND		0.0500	96	80-120		6010C
Sodium	32.12		22.8		10.0	93	80-120		6010C
Thallium	0.206		ND		0.200	103	80-120		6010C
Vanadium	0.202		ND		0.200	101	80-120		6010C
Zinc	0.204		0.0028	J	0.200	101	80-120		6010C

SSR = Spiked Sample Result

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

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: MW-99-03 PDS | Lab ID: 480-188016-1 PDS

Lab Name: Eurofins TestAmerica, Buffalo | Job No.: 480-188016-1

SDG No.:

Matrix: Water | Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	9.65		ND		10.0	96	80-120		6010C
Antimony	0.214		ND		0.200	107	80-120		6010C
Arsenic	0.209		ND		0.200	105	80-120		6010C
Barium	0.312		0.096		0.200	108	80-120		6010C
Beryllium	0.211		ND		0.200	106	80-120		6010C
Cadmium	0.198		ND		0.200	99	80-120		6010C
Calcium	48.07		39.4		10.0	87	80-120		6010C
Chromium	0.211		0.015		0.200	98	80-120		6010C
Cobalt	0.205		ND		0.200	103	80-120		6010C
Copper	0.206		0.0056	J	0.200	100	80-120		6010C
Iron	9.64		ND		10.0	96	80-120		6010C
Lead	0.208		ND		0.200	104	80-120		6010C
Magnesium	23.02		14.0		10.0	90	80-120		6010C
Manganese	0.202		0.00047	J	0.200	101	80-120		6010C
Nickel	0.218		0.016		0.200	101	80-120		6010C
Potassium	12.31		1.9		10.0	104	80-120		6010C
Selenium	0.195		ND		0.200	97	80-120		6010C
Silver	0.0468		ND		0.0500	94	80-120		6010C
Sodium	31.70		22.6		10.0	90	80-120		6010C
Thallium	0.210		ND		0.200	105	80-120		6010C
Vanadium	0.203		ND		0.200	101	80-120		6010C
Zinc	0.211		0.0046	J	0.200	103	80-120		6010C

SSR = Spiked Sample Result

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

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-592076/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

Sample Matrix: Water LCS Source: MED_02_W2_00066

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	10.00		100	80	120		6010C
Antimony	0.200	0.217		108	80	120		6010C
Arsenic	0.200	0.205		102	80	120		6010C
Barium	0.200	0.224		112	80	120		6010C
Beryllium	0.200	0.209		105	80	120		6010C
Cadmium	0.200	0.201		100	80	120		6010C
Calcium	10.0	10.14		101	80	120		6010C
Chromium	0.200	0.199		99	80	120		6010C
Cobalt	0.200	0.198		99	80	120		6010C
Copper	0.200	0.199		99	80	120		6010C
Iron	10.0	9.79		98	80	120		6010C
Lead	0.200	0.201		101	80	120		6010C
Magnesium	10.0	9.69		97	80	120		6010C
Manganese	0.200	0.204		102	80	120		6010C
Nickel	0.200	0.199		99	80	120		6010C
Potassium	10.0	10.10		101	80	120		6010C
Selenium	0.200	0.194		97	80	120		6010C
Silver	0.0500	0.0469		94	80	120		6010C
Sodium	10.0	10.27		102	80	120		6010C
Thallium	0.200	0.204		102	80	120		6010C
Vanadium	0.200	0.201		100	80	120		6010C
Zinc	0.200	0.202		101	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 480-592077/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

Sample Matrix: Water LCS Source: MED_02_W2_00066

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	10.0	9.70		97	80	120		6010C
Antimony	0.400	0.425		106	80	120		6010C
Arsenic	0.400	0.409		102	80	120		6010C
Barium	0.200	0.221		111	80	120		6010C
Beryllium	0.400	0.412		103	80	120		6010C
Cadmium	0.400	0.393		98	80	120		6010C
Calcium	20.0	19.52		98	80	120		6010C
Chromium	0.400	0.386		96	80	120		6010C
Cobalt	0.400	0.392		98	80	120		6010C
Copper	0.400	0.395		99	80	120		6010C
Iron	20.0	19.08		95	80	120		6010C
Lead	0.400	0.400		100	80	120		6010C
Magnesium	20.0	18.91		95	80	120		6010C
Manganese	0.400	0.397		99	80	120		6010C
Nickel	0.400	0.392		98	80	120		6010C
Selenium	0.400	0.387		97	80	120		6010C
Silver	0.0500	0.0452		90	80	120		6010C
Sodium	10.0	10.03		100	80	120		6010C
Thallium	0.400	0.406		101	80	120		6010C
Vanadium	0.400	0.395		99	80	120		6010C
Zinc	0.400	0.401		100	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 480-592077/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

Sample Matrix: Water LCS Source: MED_02_W2_00066

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Potassium	10.0	10.27		103	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 480-592922/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

Sample Matrix: Water LCS Source: MED_02_W2_00066

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Potassium	10.0	9.78		98	80	120		6010C
Zinc	0.200	0.196		98	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-592246/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02623

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00660		99	80	120		7470A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 480-592507/2-A

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

Sample Matrix: Water LCS Source: MEH_HG1_WKG_02625

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.00667	0.00647		97	80	120		7470A

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-188016-1

SDG No:

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-188016-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	0.11	J	ND		NC		6010C
Antimony	ND		ND		NC		6010C
Arsenic	ND		ND		NC		6010C
Barium	0.094		0.0969		2.8		6010C
Beryllium	ND		ND		NC		6010C
Cadmium	ND		ND		NC		6010C
Calcium	40.1		40.78		1.7		6010C
Chromium	0.016		0.0162	J	NC		6010C
Cobalt	ND		ND		NC		6010C
Copper	0.0061	J	ND		NC		6010C
Iron	0.062		ND		NC		6010C
Lead	ND		ND		NC		6010C
Magnesium	14.3		14.34		0.16		6010C
Manganese	0.0051		0.00510	J	NC		6010C
Nickel	0.017		0.0168	J	NC		6010C
Potassium	1.8		1.32	J	NC		6010C
Selenium	ND		ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	22.8		23.04		1.1		6010C
Thallium	ND		ND		NC		6010C
Vanadium	ND		ND		NC		6010C
Zinc	0.0028	J	ND		NC		6010C

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-188016-1

SDG No:

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-188016-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	ND		ND		NC		6010C
Antimony	ND		ND		NC		6010C
Arsenic	ND		ND		NC		6010C
Barium	0.096		0.0964		0.49		6010C
Beryllium	ND		ND		NC		6010C
Cadmium	ND		ND		NC		6010C
Calcium	39.4		39.44		0.17		6010C
Chromium	0.015		0.0155	J	NC		6010C
Cobalt	ND		ND		NC		6010C
Copper	0.0056	J	ND		NC		6010C
Iron	ND		ND		NC		6010C
Lead	ND		ND		NC		6010C
Magnesium	14.0		13.82		1.6		6010C
Manganese	0.00047	J	ND		NC		6010C
Nickel	0.016		0.0150	J	NC		6010C
Potassium	1.9		1.75	J	NC		6010C
Selenium	ND		ND		NC		6010C
Silver	ND		ND		NC		6010C
Sodium	22.6		22.56		0.34		6010C
Thallium	ND		ND		NC		6010C
Vanadium	ND		ND		NC		6010C
Zinc	0.0046	J	ND		NC		6010C

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 480-188016-1

SDG No:

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-188016-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	ND		ND		NC		7470A

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 480-188016-1

SDG No:

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-188016-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Mercury	ND		ND		NC		7470A

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C MDL Date: 07/17/2013 11:47

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.200	0.01	0.0015

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG Number:

Matrix: Water Instrument ID: ICAP1

Method: 6010C XMDL Date: 07/17/2013 11:47

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Aluminum	308.215	0.2	0.06
Antimony	206.833	0.02	0.00679
Arsenic	189.042	0.015	0.00555
Barium	455.403	0.002	0.0007
Beryllium	313.042	0.002	0.0003
Cadmium	228.802	0.002	0.0005
Calcium	317.933	0.5	0.1
Chromium	267.716	0.004	0.001
Cobalt	228.616	0.004	0.00063
Copper	327.396	0.01	0.0016
Iron	259.940	0.05	0.0193
Lead	220.353	0.01	0.003
Magnesium	279.079	0.2	0.0434
Manganese	257.610	0.003	0.0004
Nickel	231.604	0.01	0.00126
Potassium	766.490	0.5	0.1
Selenium	196.090	0.025	0.0087
Silver	328.068	0.006	0.0017
Sodium	589.592	1	0.324
Thallium	190.856	0.02	0.01024
Vanadium	292.402	0.005	0.0015
Zinc	206.2	0.01	0.0015

9-IN
DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 06/21/2021 17:21

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 06/21/2021 17:23

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A MDL Date: 06/21/2021 17:21

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Mercury	253.7	0.0002	0.000043

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG Number:

Matrix: Water Instrument ID: LEEMAN5

Method: 7470A XMDL Date: 06/21/2021 17:23

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Mercury	253.7	0.0002	0.000043

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Aluminum	308.215														
Antimony	206.833											0.005976		0.000013	
Arsenic	189.042		-0.00003300									-0.011195			
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802			0.003343										0.000001	
Calcium	317.933														
Chromium	267.716		0.000013											-0.000007	
Cobalt	228.616														
Copper	327.396							0.000008							
Iron	259.940														
Lead	220.353		-0.000031										0.000143	0.000041	
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610		0.000006											0.000003	
Molybdenum	202.030														
Nickel	231.604													0.000010	
Potassium	766.490														
Selenium	196.090		-0.000019												
Silicon	288.158														
Silver	328.068									-0.006683					
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856										0.004598				
Tin	189.989														
Titanium	334.904														
Vanadium	292.402													0.00002	

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Ce	Co	Cr	Cu	Fe	K
Zinc	206.200											-0.001456			

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Li	Mg	Mn	Mo	Na	Ni	Pb	S	Sb	Se	Si	Sn	Sr	Ti
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														-0.001025
Boron	208.959				0.002541										
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716			0.000064											
Cobalt	228.616				-0.001081										0.001734
Copper	327.396														
Iron	259.940														
Lead	220.353				-0.001520							0.000018			
Lithium	670.784														
Magnesium	279.079			-0.003583											
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090			0.000315											
Silicon	288.158														
Silver	328.068			0.000072											
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856			0.000597											
Tin	189.989														
Titanium	334.904				.01185109										
Vanadium	292.402				0.012980										0.000492
Zinc	206.200														

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job Number: 480-188016-1

SDG No.:

ICP-AES Instrument ID: ICAP1 Date: 11/23/2020

Analyte	Wave Length	Tl	V	Zn											
Aluminum	308.215														
Antimony	206.833														
Arsenic	189.042														
Barium	455.403														
Beryllium	313.042														
Boron	208.959														
Cadmium	228.802														
Calcium	317.933														
Chromium	267.716														
Cobalt	228.616														
Copper	327.396														
Iron	259.940														
Lead	220.353														
Lithium	670.784														
Magnesium	279.079														
Manganese	257.610														
Molybdenum	202.030														
Nickel	231.604														
Potassium	766.490														
Selenium	196.090														
Silicon	288.158														
Silver	328.068														
Sodium	589.592														
Strontium	407.771														
Sulfur	182.034														
Thallium	190.856		0.002141												
Tin	189.989														
Titanium	334.904														
Vanadium	292.402														
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Date: 08/01/2019 09:58

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Aluminum	15	600	6010C
Antimony	15	10	6010C
Arsenic	15	5	6010C
Barium	15	10	6010C
Beryllium	15	25	6010C
Cadmium	15	5	6010C
Calcium	15	1000	6010C
Chromium	15	10	6010C
Cobalt	15	20	6010C
Copper	15	25	6010C
Iron	15	600	6010C
Lead	15	120	6010C
Magnesium	15	500	6010C
Manganese	15	50	6010C
Nickel	15	10	6010C
Potassium	15	600	6010C
Selenium	15	60	6010C
Silver	15	3	6010C
Sodium	15	1000	6010C
Thallium	15	20	6010C
Vanadium	15	5	6010C
Zinc	15	20	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No: 480-188016-1

SDG No.:

Instrument ID: LEEMAN5 Date: 10/09/2018 16:19

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	20	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-592076/1-A	08/09/2021 13:12	592076		50	50
LCS 480-592076/2-A	08/09/2021 13:12	592076		50	50
480-188016-1	08/09/2021 13:12	592076		50	50
480-188016-1 MS	08/09/2021 13:12	592076		50	50
480-188016-1 MSD	08/09/2021 13:12	592076		50	50
480-188016-2	08/09/2021 13:12	592076		50	50
480-188016-3	08/09/2021 13:12	592076		50	50
480-188016-4	08/09/2021 13:12	592076		50	50
480-188016-5	08/09/2021 13:12	592076		50	50
480-188016-6	08/09/2021 13:12	592076		50	50
480-188016-7	08/09/2021 13:12	592076		50	50
480-188016-8	08/09/2021 13:12	592076		50	50
480-188016-9	08/09/2021 13:12	592076		50	50
480-188016-10	08/09/2021 13:12	592076		50	50
480-188016-11	08/09/2021 13:12	592076		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-592077/1-A	08/09/2021 13:12	592077		50	50
LCS 480-592077/2-A	08/09/2021 13:12	592077		50	50
480-188016-1	08/09/2021 13:12	592077		50	50
480-188016-1 MS	08/09/2021 13:12	592077		50	50
480-188016-1 MSD	08/09/2021 13:12	592077		50	50
480-188016-2	08/09/2021 13:12	592077		50	50
480-188016-3	08/09/2021 13:12	592077		50	50
480-188016-4	08/09/2021 13:12	592077		50	50
480-188016-5	08/09/2021 13:12	592077		50	50
480-188016-6	08/09/2021 13:12	592077		50	50
480-188016-7	08/09/2021 13:12	592077		50	50
480-188016-8	08/09/2021 13:12	592077		50	50
480-188016-9	08/09/2021 13:12	592077		50	50
480-188016-10	08/09/2021 13:12	592077		50	50
480-188016-11	08/09/2021 13:12	592077		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-592922/1-A	08/16/2021 09:18	592922		50	50
LCS 480-592922/2-A	08/16/2021 09:18	592922		50	50
480-188016-2	08/16/2021 09:18	592922		50	50
480-188016-3	08/16/2021 09:18	592922		50	50
480-188016-9	08/16/2021 09:18	592922		50	50
480-188016-10	08/16/2021 09:18	592922		50	50
480-188016-11	08/16/2021 09:18	592922		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-592246/1-A	08/10/2021 13:08	592246		30	50
LCS 480-592246/2-A	08/10/2021 13:08	592246		30	50
480-188016-1	08/10/2021 13:08	592246		30	50
480-188016-1 MS	08/10/2021 13:08	592246		30	50
480-188016-1 MSD	08/10/2021 13:08	592246		30	50
480-188016-2	08/10/2021 13:08	592246		30	50
480-188016-3	08/10/2021 13:08	592246		30	50
480-188016-4	08/10/2021 13:08	592246		30	50
480-188016-5	08/10/2021 13:08	592246		30	50
480-188016-6	08/10/2021 13:08	592246		30	50
480-188016-7	08/10/2021 13:08	592246		30	50
480-188016-8	08/10/2021 13:08	592246		30	50
480-188016-9	08/10/2021 13:08	592246		30	50
480-188016-10	08/10/2021 13:08	592246		30	50
480-188016-11	08/10/2021 13:08	592246		30	50

12-IN
PREPARATION LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 480-592507/1-A	08/11/2021 13:05	592507		30	50
LCS 480-592507/2-A	08/11/2021 13:05	592507		30	50
480-188016-1	08/11/2021 13:05	592507		30	50
480-188016-1 MS	08/11/2021 13:05	592507		30	50
480-188016-1 MSD	08/11/2021 13:05	592507		30	50
480-188016-2	08/11/2021 13:05	592507		30	50
480-188016-3	08/11/2021 13:05	592507		30	50
480-188016-4	08/11/2021 13:05	592507		30	50
480-188016-5	08/11/2021 13:05	592507		30	50
480-188016-6	08/11/2021 13:05	592507		30	50
480-188016-7	08/11/2021 13:05	592507		30	50
480-188016-8	08/11/2021 13:05	592507		30	50
480-188016-9	08/11/2021 13:05	592507		30	50
480-188016-10	08/11/2021 13:05	592507		30	50
480-188016-11	08/11/2021 13:05	592507		30	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/10/2021 12:07 End Date: 08/10/2021 15:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ICIS 480-592475/1	1		12:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-592475/2			12:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-592475/3			12:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-592475/4			12:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-592475/5	1		12:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-592475/6	1		12:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-592475/7	1		12:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-592475/8	1		12:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-592475/9	1		12:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:41																				
ZZZZZZ			12:45																				
ZZZZZZ			12:49																				
ZZZZZZ			12:53																				
ZZZZZZ			12:57																				
CCV 480-592475/15	1		13:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-592475/16	1		13:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-592475/17	1		13:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-592076/1-A	1	T	13:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-592076/2-A	1	T	13:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1	1	T	13:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1 SD	5	T	13:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1 PDS	1	T	13:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1 MS	1	T	13:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1 MSD	1	T	13:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-2	1	T	13:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-3	1	T	13:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-592475/27	1		13:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-592475/28	1		13:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-592475/29	1		14:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-4	1	T	14:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-5	1	T	14:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-6	1	T	14:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-7	1	T	14:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-8	1	T	14:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-9	1	T	14:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-10	1	T	14:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-11	1	T	14:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:34																				
CCV 480-592475/39	1		14:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-592475/40	1		14:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-592475/41	1		14:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			14:49																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/10/2021 12:07 End Date: 08/10/2021 15:32

Lab Sample ID	D / F	Type	Time	Analytes																				
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			14:53																					
ZZZZZZ			14:57																					
ZZZZZZ			15:01																					
ZZZZZZ			15:05																					
ZZZZZZ			15:09																					
CCV 480-592475/48			15:24																					
CCB 480-592475/49			15:28																					
CCVL 480-592475/50			15:32																					

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/10/2021 12:07 End Date: 08/10/2021 15:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ICIS 480-592475/1	1		12:07	X	X																		
IC 480-592475/2			12:11	X	X																		
IC 480-592475/3			12:15	X	X																		
IC 480-592475/4			12:18	X	X																		
ICV 480-592475/5	1		12:22	X	X																		
ICB 480-592475/6	1		12:26	X	X																		
ICVL 480-592475/7	1		12:30	X	X																		
ICSA 480-592475/8	1		12:33	X	X																		
ICSAB 480-592475/9	1		12:37	X	X																		
ZZZZZZ			12:41																				
ZZZZZZ			12:45																				
ZZZZZZ			12:49																				
ZZZZZZ			12:53																				
ZZZZZZ			12:57																				
CCV 480-592475/15	1		13:01	X	X																		
CCB 480-592475/16	1		13:04	X	X																		
CCVL 480-592475/17	1		13:15	X	X																		
MB 480-592076/1-A	1	T	13:19	X	X																		
LCS 480-592076/2-A	1	T	13:23	X	X																		
480-188016-1	1	T	13:26	X	X																		
480-188016-1 SD	5	T	13:30	X	X																		
480-188016-1 PDS	1	T	13:34	X	X																		
480-188016-1 MS	1	T	13:38	X	X																		
480-188016-1 MSD	1	T	13:41	X	X																		
480-188016-2	1	T	13:45	X	X																		
480-188016-3	1	T	13:49	X	X																		
CCV 480-592475/27	1		13:53	X	X																		
CCB 480-592475/28	1		13:56	X	X																		
CCVL 480-592475/29	1		14:00	X	X																		
480-188016-4	1	T	14:04	X	X																		
480-188016-5	1	T	14:08	X	X																		
480-188016-6	1	T	14:12	X	X																		
480-188016-7	1	T	14:15	X	X																		
480-188016-8	1	T	14:19	X	X																		
480-188016-9	1	T	14:23	X	X																		
480-188016-10	1	T	14:27	X	X																		
480-188016-11	1	T	14:31	X	X																		
ZZZZZZ			14:34																				
CCV 480-592475/39	1		14:38	X	X																		
CCB 480-592475/40	1		14:42	X	X																		
CCVL 480-592475/41	1		14:46	X	X																		
ZZZZZZ			14:49																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/10/2021 12:07 End Date: 08/10/2021 15:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			14:53																				
ZZZZZZ			14:57																				
ZZZZZZ			15:01																				
ZZZZZZ			15:05																				
ZZZZZZ			15:09																				
CCV 480-592475/48			15:24																				
CCB 480-592475/49			15:28																				
CCVL 480-592475/50			15:32																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/10/2021 12:07 End Date: 08/10/2021 17:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl	V
ICIS 480-592485/1	1		12:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-592485/2			12:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-592485/3			12:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IC 480-592485/4			12:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 480-592485/5	1		12:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 480-592485/6	1		12:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 480-592485/7	1		12:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 480-592485/8	1		12:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 480-592485/9	1		12:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:41																				
ZZZZZZ			12:45																				
ZZZZZZ			12:49																				
ZZZZZZ			12:53																				
ZZZZZZ			12:57																				
CCV 480-592485/15			13:01																				
CCB 480-592485/16			13:04																				
CCVL 480-592485/17			13:15																				
CCV 480-592485/18	1		15:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-592485/19	1		15:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-592485/20	1		15:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 480-592077/1-A	1	R	15:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 480-592077/2-A	1	R	15:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			15:43																				
ZZZZZZ			15:47																				
ZZZZZZ			15:51																				
ZZZZZZ			15:55																				
ZZZZZZ			15:59																				
ZZZZZZ			16:03																				
ZZZZZZ			16:07																				
CCV 480-592485/30	1		16:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-592485/31	1		16:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-592485/32	1		16:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1	1	D	16:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1 SD	5	D	16:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1 PDS	1	D	16:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1 MS	1	D	16:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-1 MSD	1	D	16:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-2	1	D	16:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-3	1	D	16:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-4	1	D	16:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-5	1	D	16:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-592485/42	1		16:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/10/2021 12:07 End Date: 08/10/2021 17:49

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl	V
CCB 480-592485/43	1		17:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-592485/44	1		17:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-6	1	D	17:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-7	1	D	17:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-8	1	D	17:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-9	1	D	17:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-10	1	D	17:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
480-188016-11	1	D	17:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 480-592485/51	1		17:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 480-592485/52	1		17:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 480-592485/53	1		17:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/10/2021 12:07 End Date: 08/10/2021 17:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Zn																			
ICIS 480-592485/1	1		12:07	X																			
IC 480-592485/2			12:11	X																			
IC 480-592485/3			12:15	X																			
IC 480-592485/4			12:18	X																			
ICV 480-592485/5	1		12:22	X																			
ICB 480-592485/6	1		12:26	X																			
ICVL 480-592485/7	1		12:30	X																			
ICSA 480-592485/8	1		12:33	X																			
ICSAB 480-592485/9	1		12:37	X																			
ZZZZZZ			12:41																				
ZZZZZZ			12:45																				
ZZZZZZ			12:49																				
ZZZZZZ			12:53																				
ZZZZZZ			12:57																				
CCV 480-592485/15			13:01																				
CCB 480-592485/16			13:04																				
CCVL 480-592485/17			13:15																				
CCV 480-592485/18	1		15:24	X																			
CCB 480-592485/19	1		15:28	X																			
CCVL 480-592485/20	1		15:32	X																			
MB 480-592077/1-A	1	R	15:36	X																			
LCS 480-592077/2-A	1	R	15:40	X																			
ZZZZZZ			15:43																				
ZZZZZZ			15:47																				
ZZZZZZ			15:51																				
ZZZZZZ			15:55																				
ZZZZZZ			15:59																				
ZZZZZZ			16:03																				
ZZZZZZ			16:07																				
CCV 480-592485/30	1		16:11	X																			
CCB 480-592485/31	1		16:14	X																			
CCVL 480-592485/32	1		16:18	X																			
480-188016-1	1	D	16:22	X																			
480-188016-1 SD	5	D	16:26	X																			
480-188016-1 PDS	1	D	16:30	X																			
480-188016-1 MS	1	D	16:33	X																			
480-188016-1 MSD	1	D	16:37	X																			
480-188016-2	1	D	16:41																				
480-188016-3	1	D	16:45																				
480-188016-4	1	D	16:48	X																			
480-188016-5	1	D	16:52	X																			
CCV 480-592485/42	1		16:56	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/10/2021 12:07 End Date: 08/10/2021 17:49

Lab Sample ID	D / F	Type	Time	Analytes																			
				Zn																			
CCB 480-592485/43	1		17:00	X																			
CCVL 480-592485/44	1		17:03	X																			
480-188016-6	1	D	17:07	X																			
480-188016-7	1	D	17:11	X																			
480-188016-8	1	D	17:15	X																			
480-188016-9	1	D	17:19	X																			
480-188016-10	1	D	17:22	X																			
480-188016-11	1	D	17:26	X																			
CCV 480-592485/51	1		17:41	X																			
CCB 480-592485/52	1		17:45	X																			
CCVL 480-592485/53	1		17:49	X																			

Prep Types

D = Dissolved

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/11/2021 11:35 End Date: 08/11/2021 16:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				K																			
ICIS 480-592610/1	1		11:35	X																			
IC 480-592610/2			11:39	X																			
IC 480-592610/3			11:43	X																			
IC 480-592610/4			11:47	X																			
ICV 480-592610/5	1		11:50	X																			
ICB 480-592610/6	1		11:54	X																			
ICVL 480-592610/7	1		11:58	X																			
ICSA 480-592610/8	1		12:02	X																			
ICSAB 480-592610/9	1		12:06	X																			
ZZZZZZ			12:10																				
ZZZZZZ			12:14																				
ZZZZZZ			12:18																				
ZZZZZZ			12:22																				
ZZZZZZ			12:26																				
CCV 480-592610/15			12:30																				
CCB 480-592610/16			12:33																				
CCVL 480-592610/17			12:41																				
CCV 480-592610/18	1		14:04	X																			
CCB 480-592610/19	1		14:08	X																			
CCVL 480-592610/20	1		14:11	X																			
MB 480-592077/1-A	1	R	14:42	X																			
LCS 480-592077/2-A	1	R	14:46	X																			
CCV 480-592610/23	1		14:49	X																			
CCB 480-592610/24	1		14:53	X																			
CCVL 480-592610/25	1		14:57	X																			
480-188016-1	1	D	15:00	X																			
480-188016-1 SD	5	D	15:04	X																			
480-188016-1 PDS	1	D	15:08	X																			
480-188016-1 MS	1	D	15:12	X																			
480-188016-1 MSD	1	D	15:16	X																			
480-188016-2	1	D	15:19	X																			
480-188016-3	1	D	15:23	X																			
480-188016-4	1	D	15:27	X																			
480-188016-5	1	D	15:31	X																			
CCV 480-592610/35	1		15:34	X																			
CCB 480-592610/36	1		15:38	X																			
CCVL 480-592610/37	1		15:42	X																			
480-188016-6	1	D	15:46	X																			
480-188016-7	1	D	15:50	X																			
480-188016-8	1	D	15:53	X																			
ZZZZZZ			15:57																				
ZZZZZZ			16:01																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/11/2021 11:35 End Date: 08/11/2021 16:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				K																			
ZZZZZZ			16:05																				
CCV 480-592610/44	1		16:20	X																			
CCB 480-592610/45	1		16:24	X																			
CCVL 480-592610/46	1		16:28	X																			

Prep Types

D = Dissolved

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/16/2021 14:36 End Date: 08/16/2021 22:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				K	Zn																		
ICIS 480-593051/1	1		14:36	X	X																		
IC 480-593051/2			14:40	X	X																		
IC 480-593051/3			14:44	X	X																		
IC 480-593051/4			14:47	X	X																		
ICV 480-593051/5	1		14:51	X	X																		
ICB 480-593051/6	1		14:55	X	X																		
ICVL 480-593051/7	1		14:58	X	X																		
ICSA 480-593051/8	1		15:02	X	X																		
ICSAB 480-593051/9	1		15:06	X	X																		
ZZZZZZ			15:10																				
ZZZZZZ			15:14																				
ZZZZZZ			15:18																				
ZZZZZZ			15:22																				
ZZZZZZ			15:26																				
CCV 480-593051/15			15:30																				
CCB 480-593051/16			15:34																				
CCV 480-593051/17	1		19:39	X	X																		
CCB 480-593051/18	1		19:42	X	X																		
CCVL 480-593051/19	1		19:46	X	X																		
MB 480-592922/1-A	1	R	20:22	X	X																		
CCV 480-593051/21	1		20:25	X	X																		
CCB 480-593051/22	1		20:29	X	X																		
CCVL 480-593051/23	1		20:33	X	X																		
LCS 480-592922/2-A	1	R	20:37	X	X																		
ZZZZZZ			20:41																				
480-188016-2	1	D	20:45		X																		
480-188016-3	1	D	20:48		X																		
480-188016-9	1	D	20:52	X																			
480-188016-10	1	D	20:56	X																			
480-188016-11	1	D	21:00	X																			
ZZZZZZ			21:04																				
ZZZZZZ			21:08																				
CCV 480-593051/33	1		21:12	X	X																		
CCB 480-593051/34	1		21:15	X	X																		
CCVL 480-593051/35	1		21:19	X	X																		
ZZZZZZ			21:23																				
ZZZZZZ			21:27																				
ZZZZZZ			21:31																				
ZZZZZZ			21:35																				
CCV 480-593051/40	1		21:57	X	X																		
CCB 480-593051/41	1		22:01	X	X																		
CCVL 480-593051/42	1		22:05	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: ICAP1 Method: 6010C

Start Date: 08/16/2021 14:36 End Date: 08/16/2021 22:05

Prep Types
D = Dissolved
R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 08/10/2021 16:23 End Date: 08/10/2021 18:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 480-592387/1-A			16:23	X																			
IC 480-592387/2-A			16:24	X																			
IC 480-592387/3-A			16:25	X																			
IC 480-592387/4-A			16:27	X																			
IC 480-592387/5-A			16:28	X																			
IC 480-592387/6-A			16:29	X																			
ICV 480-592428/7	1		16:31	X																			
ICB 480-592428/8	1		16:32	X																			
ICVL 480-592428/9	1		16:33	X																			
CCV 480-592428/10			16:35																				
CCB 480-592428/11			16:36																				
ZZZZZZ			16:37																				
ZZZZZZ			16:39																				
ZZZZZZ			16:40																				
ZZZZZZ			16:41																				
ZZZZZZ			16:42																				
ZZZZZZ			16:44																				
ZZZZZZ			16:45																				
ZZZZZZ			16:46																				
ZZZZZZ			16:48																				
ZZZZZZ			16:49																				
CCV 480-592428/22			16:50																				
CCB 480-592428/23			16:52																				
ZZZZZZ			16:53																				
ZZZZZZ			16:54																				
ZZZZZZ			16:55																				
ZZZZZZ			16:57																				
ZZZZZZ			16:58																				
ZZZZZZ			16:59																				
ZZZZZZ			17:01																				
ZZZZZZ			17:02																				
ZZZZZZ			17:03																				
ZZZZZZ			17:05																				
CCV 480-592428/34	1		17:06	X																			
CCB 480-592428/35	1		17:07	X																			
ZZZZZZ			17:08																				
ZZZZZZ			17:10																				
ZZZZZZ			17:11																				
MB 480-592246/1-A	1	T	17:12	X																			
LCS 480-592246/2-A	1	T	17:14	X																			
480-188016-1	1	T	17:15	X																			
480-188016-1 SD	5	T	17:16	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 08/10/2021 16:23 End Date: 08/10/2021 18:32

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
480-188016-1 MS	1	T	17:18	X																			
480-188016-1 MSD	1	T	17:19	X																			
480-188016-2	1	T	17:20	X																			
CCV 480-592428/46	1		17:22	X																			
CCB 480-592428/47	1		17:23	X																			
480-188016-3	1	T	17:24	X																			
480-188016-4	1	T	17:25	X																			
480-188016-5	1	T	17:27	X																			
480-188016-6	1	T	17:28	X																			
480-188016-7	1	T	17:29	X																			
480-188016-8	1	T	17:31	X																			
480-188016-9	1	T	17:32	X																			
480-188016-10	1	T	17:33	X																			
480-188016-11	1	T	17:35	X																			
ZZZZZZ			17:36																				
CCV 480-592428/58	1		17:37	X																			
CCB 480-592428/59	1		17:38	X																			
ZZZZZZ			17:40																				
ZZZZZZ			17:41																				
ZZZZZZ			17:42																				
ZZZZZZ			17:44																				
ZZZZZZ			17:45																				
ZZZZZZ			17:46																				
ZZZZZZ			17:48																				
ZZZZZZ			17:49																				
ZZZZZZ			17:50																				
ZZZZZZ			17:52																				
CCV 480-592428/70			17:53																				
CCB 480-592428/71			17:54																				
ZZZZZZ			17:55																				
ZZZZZZ			17:57																				
ZZZZZZ			17:58																				
ZZZZZZ			17:59																				
ZZZZZZ			18:01																				
ZZZZZZ			18:02																				
ZZZZZZ			18:03																				
ZZZZZZ			18:05																				
ZZZZZZ			18:06																				
ZZZZZZ			18:07																				
CCV 480-592428/82			18:09																				
CCB 480-592428/83			18:10																				
ZZZZZZ			18:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 08/10/2021 16:23 End Date: 08/10/2021 18:32

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			18:12																				
ZZZZZZ			18:14																				
ZZZZZZ			18:15																				
ZZZZZZ			18:16																				
ZZZZZZ			18:18																				
ZZZZZZ			18:19																				
ZZZZZZ			18:20																				
ZZZZZZ			18:22																				
ZZZZZZ			18:23																				
CCV 480-592428/94			18:24																				
CCB 480-592428/95			18:26																				
ZZZZZZ			18:27																				
ZZZZZZ			18:28																				
CCV 480-592428/98			18:29																				
CCB 480-592428/99			18:31																				
CCVL 480-592428/100	1		18:32	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 08/11/2021 15:57 End Date: 08/11/2021 18:19

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 480-592564/1-A			15:57	X																			
IC 480-592564/2-A			15:59	X																			
IC 480-592564/3-A			16:00	X																			
IC 480-592564/4-A			16:01	X																			
IC 480-592564/5-A			16:03	X																			
IC 480-592564/6-A			16:04	X																			
ICV 480-592594/7	1		16:07	X																			
ICB 480-592594/8	1		16:08	X																			
ICVL 480-592594/9	1		16:10	X																			
CCV 480-592594/10			16:11																				
CCB 480-592594/11			16:12																				
ZZZZZZ			16:13																				
ZZZZZZ			16:15																				
ZZZZZZ			16:16																				
ZZZZZZ			16:17																				
ZZZZZZ			16:19																				
ZZZZZZ			16:20																				
ZZZZZZ			16:21																				
ZZZZZZ			16:23																				
ZZZZZZ			16:24																				
ZZZZZZ			16:25																				
CCV 480-592594/22			16:27																				
CCB 480-592594/23			16:28																				
ZZZZZZ			16:29																				
ZZZZZZ			16:30																				
ZZZZZZ			16:32																				
ZZZZZZ			16:33																				
ZZZZZZ			16:34																				
ZZZZZZ			16:36																				
ZZZZZZ			16:37																				
ZZZZZZ			16:38																				
ZZZZZZ			16:40																				
ZZZZZZ			16:41																				
CCV 480-592594/34			16:42																				
CCB 480-592594/35			16:43																				
ZZZZZZ			16:45																				
ZZZZZZ			16:46																				
ZZZZZZ			16:47																				
ZZZZZZ			16:49																				
ZZZZZZ			16:50																				
ZZZZZZ			16:51																				
ZZZZZZ			16:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 08/11/2021 15:57 End Date: 08/11/2021 18:19

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:54																				
ZZZZZZ			16:55																				
ZZZZZZ			16:56																				
CCV 480-592594/46			16:58																				
CCB 480-592594/47			16:59																				
ZZZZZZ			17:00																				
ZZZZZZ			17:02																				
ZZZZZZ			17:03																				
ZZZZZZ			17:04																				
ZZZZZZ			17:06																				
ZZZZZZ			17:07																				
ZZZZZZ			17:08																				
ZZZZZZ			17:10																				
ZZZZZZ			17:11																				
ZZZZZZ			17:12																				
CCV 480-592594/58	1		17:13	X																			
CCB 480-592594/59	1		17:15	X																			
ZZZZZZ			17:16																				
ZZZZZZ			17:17																				
ZZZZZZ			17:19																				
ZZZZZZ			17:20																				
ZZZZZZ			17:21																				
ZZZZZZ			17:23																				
ZZZZZZ			17:24																				
ZZZZZZ			17:25																				
ZZZZZZ			17:26																				
MB 480-592507/1-A	1	T	17:28	X																			
CCV 480-592594/70	1		17:29	X																			
CCB 480-592594/71	1		17:30	X																			
LCS 480-592507/2-A	1	T	17:32	X																			
480-188016-1	1	D	17:33	X																			
480-188016-1 SD	5	D	17:34	X																			
480-188016-1 MS	1	D	17:36	X																			
480-188016-1 MSD	1	D	17:37	X																			
480-188016-2	1	D	17:38	X																			
480-188016-3	1	D	17:40	X																			
480-188016-4	1	D	17:41	X																			
480-188016-5	1	D	17:42	X																			
480-188016-6	1	D	17:43	X																			
CCV 480-592594/82	1		17:45	X																			
CCB 480-592594/83	1		17:46	X																			
480-188016-7	1	D	17:47	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Instrument ID: LEEMAN5 Method: 7470A

Start Date: 08/11/2021 15:57 End Date: 08/11/2021 18:19

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
480-188016-8	1	D	17:49	X																			
480-188016-9	1	D	17:50	X																			
480-188016-10	1	D	17:51	X																			
480-188016-11	1	D	17:53	X																			
ZZZZZZ			17:54																				
ZZZZZZ			17:55																				
ZZZZZZ			17:57																				
ZZZZZZ			17:58																				
ZZZZZZ			17:59																				
CCV 480-592594/94	1		18:00	X																			
CCB 480-592594/95	1		18:02	X																			
ZZZZZZ			18:03																				
ZZZZZZ			18:04																				
ZZZZZZ			18:06																				
ZZZZZZ			18:07																				
ZZZZZZ			18:08																				
ZZZZZZ			18:10																				
ZZZZZZ			18:11																				
ZZZZZZ			18:12																				
ZZZZZZ			18:14																				
ZZZZZZ			18:15																				
CCV 480-592594/106			18:16																				
CCB 480-592594/107			18:17																				
CCVL 480-592594/108	1		18:19	X																			

Prep Types
D = Dissolved
T = Total/NA

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.: Analysis Batch No.: 592475

ICP Instrument ID: ICAP1 Start Date: 08/10/2021 End Date: 08/10/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-592475/1	12:07										
ICV 480-592475/5	12:22	88		97		95		100			
ICB 480-592475/6	12:26	100		100		100		100			
ICVL 480-592475/7	12:30	100		100		100		100			
ICSA 480-592475/8	12:33	73		88		85		97			
ICSAB 480-592475/9	12:37	73		88		85		97			
CCV 480-592475/15	13:01	86		97		94		99			
CCB 480-592475/16	13:04	100		101		101		102			
CCVL 480-592475/17	13:15	100		101		100		101			
MB 480-592076/1-A	13:19	100		102		102		104			
LCS 480-592076/2-A	13:23	94		100		99		103			
480-188016-1	13:26	92		98		97		104			
480-188016-1 SD	13:30	97		100		100		102			
480-188016-1 PDS	13:34	90		98		96		102			
480-188016-1 MS	13:38	90		98		96		103			
480-188016-1 MSD	13:41	89		98		97		102			
480-188016-2	13:45	88		97		95		103			
480-188016-3	13:49	88		96		95		102			
CCV 480-592475/27	13:53	86		98		94		101			
CCB 480-592475/28	13:56	100		101		101		102			
CCVL 480-592475/29	14:00	99		102		101		102			
480-188016-4	14:04	86		96		94		101			
480-188016-5	14:08	90		97		96		102			
480-188016-6	14:12	87		96		94		101			
480-188016-7	14:15	91		98		96		103			
480-188016-8	14:19	86		95		93		100			
480-188016-9	14:23	90		96		96		102			
480-188016-10	14:27	88		96		95		102			
480-188016-11	14:31	90		96		95		102			
CCV 480-592475/39	14:38	86		98		94		101			
CCB 480-592475/40	14:42	100		101		101		101			
CCVL 480-592475/41	14:46	99		102		101		102			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.: Analysis Batch No.: 592485

ICP Instrument ID: ICAP1 Start Date: 08/10/2021 End Date: 08/10/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-592485/1	12:07										
ICV 480-592485/5	12:22	88		97		95		100			
ICB 480-592485/6	12:26	100		100		100		100			
ICVL 480-592485/7	12:30	100		100		100		100			
ICSA 480-592485/8	12:33	73		88		85		97			
ICSAB 480-592485/9	12:37	73		88		85		97			
CCV 480-592485/18	15:24	86		98		94		101			
CCB 480-592485/19	15:28	100		102		101		101			
CCVL 480-592485/20	15:32	99		102		101		102			
MB 480-592077/1-A	15:36	100		102		102		103			
LCS 480-592077/2-A	15:40	92		99		98		103			
CCV 480-592485/30	16:11	86		98		94		100			
CCB 480-592485/31	16:14	100		102		101		103			
CCVL 480-592485/32	16:18	99		103		101		102			
480-188016-1	16:22	92		99		97		103			
480-188016-1 SD	16:26	97		101		100		103			
480-188016-1 PDS	16:30	89		99		97		103			
480-188016-1 MS	16:33	88		98		96		103			
480-188016-1 MSD	16:37	88		98		96		103			
480-188016-2	16:41	88		98		94		103			
480-188016-3	16:45	89		97		94		101			
480-188016-4	16:48	86		97		93		101			
480-188016-5	16:52	90		99		95		102			
CCV 480-592485/42	16:56	86		99		94		101			
CCB 480-592485/43	17:00	100		103		101		102			
CCVL 480-592485/44	17:03	99		103		101		102			
480-188016-6	17:07	87		97		93		102			
480-188016-7	17:11	90		99		96		102			
480-188016-8	17:15	86		96		93		101			
480-188016-9	17:19	89		97		95		101			
480-188016-10	17:22	88		97		95		102			
480-188016-11	17:26	90		98		95		102			
CCV 480-592485/51	17:41	86		99		94		100			
CCB 480-592485/52	17:45	100		102		101		101			
CCVL 480-592485/53	17:49	99		102		101		101			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.: Analysis Batch No.: 592610

ICP Instrument ID: ICAP1 Start Date: 08/11/2021 End Date: 08/11/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-592610/1	11:35										
ICV 480-592610/5	11:50	88		97		95		100			
ICB 480-592610/6	11:54	100		101		100		102			
ICVL 480-592610/7	11:58	99		101		100		101			
ICSA 480-592610/8	12:02	73		88		85		97			
ICSAB 480-592610/9	12:06	73		88		85		97			
CCV 480-592610/18	14:04	85		98		95		98			
CCB 480-592610/19	14:08	100		102		101		100			
CCVL 480-592610/20	14:11	99		102		101		101			
MB 480-592077/1-A	14:42	100		102		102		102			
LCS 480-592077/2-A	14:46	92		100		99		101			
CCV 480-592610/23	14:49	86		98		94		99			
CCB 480-592610/24	14:53	100		102		101		101			
CCVL 480-592610/25	14:57	99		102		100		101			
480-188016-1	15:00	91		99		97		101			
480-188016-1 SD	15:04	97		102		99		101			
480-188016-1 PDS	15:08	89		99		96		102			
480-188016-1 MS	15:12	88		98		96		102			
480-188016-1 MSD	15:16	88		98		96		101			
480-188016-2	15:19	88		98		94		101			
480-188016-3	15:23	88		97		95		102			
480-188016-4	15:27	86		96		93		99			
480-188016-5	15:31	89		98		95		101			
CCV 480-592610/35	15:34	85		98		94		99			
CCB 480-592610/36	15:38	100		102		100		100			
CCVL 480-592610/37	15:42	99		102		101		100			
480-188016-6	15:46	87		96		93		100			
480-188016-7	15:50	90		98		96		101			
480-188016-8	15:53	86		96		93		100			
480-188016-9	15:57	89		97		95		100			
480-188016-10	16:01	88		96		94		100			
480-188016-11	16:05	90		97		95		100			
CCV 480-592610/44	16:20	86		98		94		99			
CCB 480-592610/45	16:24	100		102		101		101			
CCVL 480-592610/46	16:28	99		102		101		101			

15-IN
ICP INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.: Analysis Batch No.: 593051

ICP Instrument ID: ICAP1 Start Date: 08/16/2021 End Date: 08/16/2021

Lab Sample ID	Time	Internal Standards %RI For:									
		Element In 230.606	Q	Element Y 224.306	Q	Element Y 360.073	Q	Element Y 377.433	Q	Element	Q
ICIS 480-593051/1	14:36										
ICV 480-593051/5	14:51	88		97		95		99			
ICB 480-593051/6	14:55	100		99		100		100			
ICVL 480-593051/7	14:58	100		100		100		99			
ICSA 480-593051/8	15:02	73		87		85		96			
ICSAB 480-593051/9	15:06	73		87		84		95			
CCV 480-593051/17	19:39	86		97		94		98			
CCB 480-593051/18	19:42	101		101		100		99			
CCVL 480-593051/19	19:46	100		101		100		100			
MB 480-592922/1-A	20:22	102		101		102		102			
CCV 480-593051/21	20:25	87		97		95		99			
CCB 480-593051/22	20:29	101		100		101		100			
CCVL 480-593051/23	20:33	100		101		101		101			
LCS 480-592922/2-A	20:37	95		100		99		102			
480-188016-2	20:45	89		96		95		101			
480-188016-3	20:48	90		96		95		100			
480-188016-9	20:52	91		96		96		100			
480-188016-10	20:56	89		96		95		101			
480-188016-11	21:00	91		96		96		100			
CCV 480-593051/33	21:12	87		97		94		99			
CCB 480-593051/34	21:15	101		101		101		100			
CCVL 480-593051/35	21:19	101		101		101		100			
CCV 480-593051/40	21:57	86		96		94		99			
CCB 480-593051/41	22:01	102		101		101		99			
CCVL 480-593051/42	22:05	101		101		101		101			

Run File: I1081021C

Instrument: ICAP1

Analyst: ADM

Data Review: UMH 8/11/21

Spikes Ids:6353124(W1), 6353125(W2) 6531882(Sn), 6602574(Ag), 6560256(Si), 6560252(S), 6370646(TCLP)
Pipette Ids: 11/17/20-(1-11)
Internal Standard:6603763

Seq#	Run File ID	Sample ID	Date / Time	Sample Type
1	I1081021C	ICIS-6597963	08/10/21 12:07 PM	Standard
2	I1081021C	IC-6603764	08/10/21 12:11 PM	Standard
3	I1081021C	IC-6603765	08/10/21 12:15 PM	Standard
4	I1081021C	IC-6582679	08/10/21 12:18 PM	Standard
5	I1081021C	ICV-6595745	08/10/21 12:22 PM	QC
6	I1081021C	ICB-6597963	08/10/21 12:26 PM	QC
7	I1081021C	ICVL-6603764	08/10/21 12:30 PM	QC
8	I1081021C	ICSA-6591058	08/10/21 12:33 PM	QC
9	I1081021C	ICSAB-6588769	08/10/21 12:37 PM	QC
10	I1081021C	ICEX1	08/10/21 12:41 PM	Unknown
11	I1081021C	ICEX2	08/10/21 12:45 PM	Unknown
12	I1081021C	ICEX3	08/10/21 12:49 PM	Unknown
13	I1081021C	ICEX4	08/10/21 12:53 PM	Unknown
14	I1081021C	ICEX5	08/10/21 12:57 PM	Unknown
15	I1081021C	CCV-6603765	08/10/21 01:01 PM	QC
16	I1081021C	CCB-6597963	08/10/21 01:04 PM	QC
17	I1081021C	CCVL-6603764	08/10/21 01:15 PM	QC
18	I1081021C	MB 480-592076/1-A	08/10/21 01:19 PM	Unknown
19	I1081021C	LCS 480-592076/2-A	08/10/21 01:23 PM	Unknown
20	I1081021C	480-188016-A-1-A	08/10/21 01:26 PM	Unknown
21	I1081021C	480-188016-A-1-ASD@5	08/10/21 01:30 PM	Unknown
22	I1081021C	480-188016-A-1-APDS	08/10/21 01:34 PM	Unknown
23	I1081021C	480-188016-A-1-B MS	08/10/21 01:38 PM	Unknown
24	I1081021C	480-188016-A-1-C MSD	08/10/21 01:41 PM	Unknown
25	I1081021C	480-188016-A-2-A	08/10/21 01:45 PM	Unknown
26	I1081021C	480-188016-A-3-A	08/10/21 01:49 PM	Unknown
27	I1081021C	CCV-6603765	08/10/21 01:53 PM	QC
28	I1081021C	CCB-6597963	08/10/21 01:56 PM	QC
29	I1081021C	CCVL-6603764	08/10/21 02:00 PM	QC
30	I1081021C	480-188016-A-4-A	08/10/21 02:04 PM	Unknown
31	I1081021C	480-188016-A-5-A	08/10/21 02:08 PM	Unknown
32	I1081021C	480-188016-A-6-A	08/10/21 02:12 PM	Unknown
33	I1081021C	480-188016-A-7-A	08/10/21 02:15 PM	Unknown
34	I1081021C	480-188016-A-8-A	08/10/21 02:19 PM	Unknown
35	I1081021C	480-188016-A-9-A	08/10/21 02:23 PM	Unknown
36	I1081021C	480-188016-A-10-A	08/10/21 02:27 PM	Unknown
37	I1081021C	480-188016-A-11-A	08/10/21 02:31 PM	Unknown
38	I1081021C	480-188045-D-1-A	08/10/21 02:34 PM	Unknown
39	I1081021C	CCV-6603765	08/10/21 02:38 PM	QC
40	I1081021C	CCB-6597963	08/10/21 02:42 PM	QC
41	I1081021C	CCVL-6603764	08/10/21 02:46 PM	QC
42	I1081021C	480-187696-C-1-B	08/10/21 02:49 PM	Unknown

43	I1081021C	480-187699-C-6-C	08/10/21 02:53 PM Unknown
44	I1081021C	480-187699-C-7-C	08/10/21 02:57 PM Unknown
45	I1081021C	480-187692-C-9-D	08/10/21 03:01 PM Unknown
46	I1081021C	480-187807-J-2-B	08/10/21 03:05 PM Unknown
47	I1081021C	480-187807-H-3-B	08/10/21 03:09 PM Unknown
48	I1081021C	480-187983-A-1-A@5	08/10/21 03:13 PM Unknown
49	I1081021C	480-187855-E-12-A@10	08/10/21 03:17 PM Unknown
50	I1081021C	480-187857-A-3-A@5	08/10/21 03:20 PM Unknown
51	I1081021C	CCV-6603765	08/10/21 03:24 PM QC
52	I1081021C	CCB-6597963	08/10/21 03:28 PM QC
53	I1081021C	CCVL-6603764	08/10/21 03:32 PM QC
54	I1081021C	MB 480-592077/1-A	08/10/21 03:36 PM Unknown
55	I1081021C	LCS 480-592077/2-A	08/10/21 03:40 PM Unknown
56	I1081021C	480-187872-D-1-A	08/10/21 03:43 PM Unknown
57	I1081021C	480-187872-D-2-A	08/10/21 03:47 PM Unknown
58	I1081021C	480-187872-D-3-A	08/10/21 03:51 PM Unknown
59	I1081021C	480-187872-D-4-A	08/10/21 03:55 PM Unknown
60	I1081021C	480-187872-D-5-A	08/10/21 03:59 PM Unknown
61	I1081021C	480-187872-D-6-A	08/10/21 04:03 PM Unknown
62	I1081021C	480-187937-C-1-A	08/10/21 04:07 PM Unknown
63	I1081021C	CCV-6603765	08/10/21 04:11 PM QC
64	I1081021C	CCB-6597963	08/10/21 04:14 PM QC
65	I1081021C	CCVL-6603764	08/10/21 04:18 PM QC
66	I1081021C	480-188016-B-1-A	08/10/21 04:22 PM Unknown
67	I1081021C	480-188016-B-1-ASD@5	08/10/21 04:26 PM Unknown
68	I1081021C	480-188016-B-1-APDS	08/10/21 04:30 PM Unknown
69	I1081021C	480-188016-B-1-B MS	08/10/21 04:33 PM Unknown
70	I1081021C	480-188016-B-1-C MSD	08/10/21 04:37 PM Unknown
71	I1081021C	480-188016-B-2-A	08/10/21 04:41 PM Unknown
72	I1081021C	480-188016-B-3-A	08/10/21 04:45 PM Unknown
73	I1081021C	480-188016-B-4-A	08/10/21 04:48 PM Unknown
74	I1081021C	480-188016-B-5-A	08/10/21 04:52 PM Unknown
75	I1081021C	CCV-6603765	08/10/21 04:56 PM QC
76	I1081021C	CCB-6597963	08/10/21 05:00 PM QC
77	I1081021C	CCVL-6603764	08/10/21 05:03 PM QC
78	I1081021C	480-188016-B-6-A	08/10/21 05:07 PM Unknown
79	I1081021C	480-188016-B-7-A	08/10/21 05:11 PM Unknown
80	I1081021C	480-188016-B-8-A	08/10/21 05:15 PM Unknown
81	I1081021C	480-188016-B-9-A	08/10/21 05:19 PM Unknown
82	I1081021C	480-188016-B-10-A	08/10/21 05:22 PM Unknown
83	I1081021C	480-188016-B-11-A	08/10/21 05:26 PM Unknown
84	I1081021C	MB 480-592207/1-A	08/10/21 05:30 PM Unknown
85	I1081021C	LCSSRM 480-592207/2-	08/10/21 05:34 PM Unknown
86	I1081021C	LCDSRM 480-592207/3-	08/10/21 05:38 PM Unknown
87	I1081021C	CCV-6603765	08/10/21 05:41 PM QC
88	I1081021C	CCB-6597963	08/10/21 05:45 PM QC
89	I1081021C	CCVL-6603764	08/10/21 05:49 PM QC
90	I1081021C	480-187966-B-1-D	08/10/21 05:53 PM Unknown
91	I1081021C	480-187966-B-1-DSD@5	08/10/21 05:56 PM Unknown
92	I1081021C	480-187966-B-1-DPDS	08/10/21 06:00 PM Unknown
93	I1081021C	480-188012-A-1-F	08/10/21 06:04 PM Unknown
94	I1081021C	480-188012-A-2-F	08/10/21 06:08 PM Unknown

95	I1081021C	480-188012-A-3-E	08/10/21 06:12 PM Unknown
96	I1081021C	480-187894-D-4-A@5	08/10/21 06:15 PM Unknown
97	I1081021C	480-187894-B-15-A@5	08/10/21 06:19 PM Unknown
98	I1081021C	480-187894-D-17-A@5	08/10/21 06:23 PM Unknown
99	I1081021C	CCV-6603765	08/10/21 06:27 PM QC
100	I1081021C	CCB-6597963	08/10/21 06:30 PM QC
101	I1081021C	CCVL-6603764	08/10/21 06:34 PM QC
102	I1081021C	480-188023-B-2-A@2	08/10/21 06:38 PM Unknown
103	I1081021C	480-188023-C-4-A@2	08/10/21 06:42 PM Unknown
104	I1081021C	188023-C-4-ASD@10	08/10/21 06:45 PM Unknown
105	I1081021C	188023-C-4-APDS@2	08/10/21 06:49 PM Unknown
106	I1081021C	188023-C-4-B MS@2	08/10/21 06:53 PM Unknown
107	I1081021C	188023-C-4-C MSD@2	08/10/21 06:57 PM Unknown
108	I1081021C	480-188023-C-7-A@2	08/10/21 07:01 PM Unknown
109	I1081021C	480-188042-A-14-A@2	08/10/21 07:05 PM Unknown
110	I1081021C	480-187954-A-3-C MSD	08/10/21 07:08 PM Unknown
111	I1081021C	CCV-6603765	08/10/21 07:12 PM QC
112	I1081021C	CCB-6597963	08/10/21 07:16 PM QC
113	I1081021C	CCVL-6603764	08/10/21 07:19 PM QC
114	I1081021C	480-187954-A-4-A@2	08/10/21 07:23 PM Unknown
115	I1081021C	480-187954-B-9-A@2	08/10/21 07:27 PM Unknown
116	I1081021C	480-187922-B-2-D@2	08/10/21 07:31 PM Unknown
117	I1081021C	480-187922-B-8-F@2	08/10/21 07:35 PM Unknown
118	I1081021C	480-187922-G-10-D@2	08/10/21 07:39 PM Unknown
119	I1081021C	480-187922-B-11-F@2	08/10/21 07:42 PM Unknown
120	I1081021C	480-187922-B-18-F@2	08/10/21 07:46 PM Unknown
121	I1081021C	480-187922-B-22-A@2	08/10/21 07:50 PM Unknown
122	I1081021C	480-187922-B-23-D@2	08/10/21 07:54 PM Unknown
123	I1081021C	CCV-6603765	08/10/21 07:58 PM QC
124	I1081021C	CCB-6597963	08/10/21 08:01 PM QC
125	I1081021C	CCVL-6603764	08/10/21 08:05 PM QC
126	I1081021C	480-187922-A-28-D@2	08/10/21 08:09 PM Unknown
127	I1081021C	480-187922-B-31-D@2	08/10/21 08:13 PM Unknown
128	I1081021C	480-187977-A-2-B@2	08/10/21 08:17 PM Unknown
129	I1081021C	480-187977-C-3-A@2	08/10/21 08:20 PM Unknown
130	I1081021C	480-187977-A-9-B@2	08/10/21 08:24 PM Unknown
131	I1081021C	480-187977-A-10-B@2	08/10/21 08:28 PM Unknown
132	I1081021C	187977-A-10-BSD@10	08/10/21 08:32 PM Unknown
133	I1081021C	187977-A-10-BPDS@2	08/10/21 08:36 PM Unknown
134	I1081021C	187977-A-10-C MS@2	08/10/21 08:40 PM Unknown
135	I1081021C	CCV-6603765	08/10/21 08:44 PM QC
136	I1081021C	CCB-6597963	08/10/21 08:47 PM QC
137	I1081021C	CCVL-6603764	08/10/21 08:51 PM QC
138	I1081021C	187977-A-10-D MSD@2	08/10/21 08:55 PM Unknown
139	I1081021C	480-187977-C-13-A@2	08/10/21 08:59 PM Unknown
140	I1081021C	480-187977-B-16-B@2	08/10/21 09:03 PM Unknown
141	I1081021C	480-187977-B-18-B@2	08/10/21 09:06 PM Unknown
142	I1081021C	480-188071-C-6-A@2	08/10/21 09:10 PM Unknown
143	I1081021C	MB 480-592239/1-A	08/10/21 09:14 PM Unknown
144	I1081021C	LCS 480-592239/2-A	08/10/21 09:18 PM Unknown
145	I1081021C	480-188019-AK-2-B	08/10/21 09:22 PM Unknown
146	I1081021C	480-188049-B-1-A	08/10/21 09:26 PM Unknown

This is correct Sample ID. The wrong Sample ID (187946-H-6 A@2) was scanned in on the run by analyst error. UMH 8/11/21

147	I1081021C	CCV-6603765	08/10/21 09:29 PM QC
148	I1081021C	CCB-6597963	08/10/21 09:33 PM QC
149	I1081021C	CCVL-6603764	08/10/21 09:37 PM QC
150	I1081021C	480-188049-B-1-ASD@5	08/10/21 09:41 PM Unknown
151	I1081021C	480-188049-B-1-APDS	08/10/21 09:44 PM Unknown
152	I1081021C	480-188049-B-1-B MS	08/10/21 09:48 PM Unknown
153	I1081021C	480-188049-B-1-C MSD	08/10/21 09:52 PM Unknown
154	I1081021C	480-188049-B-2-A	08/10/21 09:55 PM Unknown
155	I1081021C	480-188049-B-3-A	08/10/21 09:59 PM Unknown
156	I1081021C	480-188049-B-4-B	08/10/21 10:03 PM Unknown
157	I1081021C	480-188049-B-5-A	08/10/21 10:07 PM Unknown
158	I1081021C	480-188049-B-6-A	08/10/21 10:11 PM Unknown
159	I1081021C	CCV-6603765	08/10/21 10:15 PM QC
160	I1081021C	CCB-6597963	08/10/21 10:18 PM QC
161	I1081021C	CCVL-6603764	08/10/21 10:22 PM QC
162	I1081021C	480-188049-B-7-A	08/10/21 10:26 PM Unknown
163	I1081021C	480-188049-B-8-A	08/10/21 10:30 PM Unknown
164	I1081021C	480-188049-B-9-A	08/10/21 10:34 PM Unknown
165	I1081021C	480-188049-B-10-A	08/10/21 10:37 PM Unknown
166	I1081021C	480-188049-B-11-A	08/10/21 10:41 PM Unknown
167	I1081021C	480-188049-B-12-A	08/10/21 10:45 PM Unknown
168	I1081021C	480-188049-B-13-A	08/10/21 10:49 PM Unknown
169	I1081021C	480-188049-B-14-A	08/10/21 10:53 PM Unknown
170	I1081021C	480-188049-B-15-A	08/10/21 10:56 PM Unknown
171	I1081021C	CCV-6603765	08/10/21 11:00 PM QC
172	I1081021C	CCB-6597963	08/10/21 11:04 PM QC
173	I1081021C	CCVL-6603764	08/10/21 11:08 PM QC
174	I1081021C	480-188049-B-16-A	08/10/21 11:12 PM Unknown
175	I1081021C	480-188049-B-17-A	08/10/21 11:16 PM Unknown
176	I1081021C	480-188049-B-18-A	08/10/21 11:19 PM Unknown
177	I1081021C	480-188049-B-19-A	08/10/21 11:23 PM Unknown
178	I1081021C	MB 480-592242/1-A	08/10/21 11:27 PM Unknown
179	I1081021C	LCS 480-592242/2-A	08/10/21 11:31 PM Unknown
180	I1081021C	480-188067-D-1-A	08/10/21 11:34 PM Unknown
181	I1081021C	480-188067-D-2-A	08/10/21 11:38 PM Unknown
182	I1081021C	480-188067-D-3-A	08/10/21 11:42 PM Unknown
183	I1081021C	CCV-6603765	08/10/21 11:46 PM QC
184	I1081021C	CCB-6597963	08/10/21 11:50 PM QC
185	I1081021C	CCVL-6603764	08/10/21 11:53 PM QC
186	I1081021C	480-188067-D-4-A	08/10/21 11:57 PM Unknown
187	I1081021C	480-188067-D-4-ASD@5	08/11/21 12:01 AM Unknown
188	I1081021C	480-188067-D-4-APDS	08/11/21 12:05 AM Unknown
189	I1081021C	480-188067-D-4-B MS	08/11/21 12:09 AM Unknown
190	I1081021C	480-188067-D-4-C MSD	08/11/21 12:12 AM Unknown
191	I1081021C	480-188067-D-5-A	08/11/21 12:16 AM Unknown
192	I1081021C	480-188067-D-6-A	08/11/21 12:20 AM Unknown
193	I1081021C	480-188067-D-7-A	08/11/21 12:24 AM Unknown
194	I1081021C	480-188067-D-8-A	08/11/21 12:28 AM Unknown
195	I1081021C	CCV-6603765	08/11/21 12:32 AM QC
196	I1081021C	CCB-6597963	08/11/21 12:36 AM QC
197	I1081021C	CCVL-6603764	08/11/21 12:40 AM QC
198	I1081021C	480-188067-D-9-A	08/11/21 12:43 AM Unknown

199	I1081021C	480-188067-D-10-A	08/11/21 12:47 AM Unknown
200	I1081021C	480-188067-D-11-A	08/11/21 12:51 AM Unknown
201	I1081021C	480-188067-D-12-A	08/11/21 12:55 AM Unknown
202	I1081021C	480-188067-D-13-A	08/11/21 12:59 AM Unknown
203	I1081021C	480-188067-D-14-A	08/11/21 01:03 AM Unknown
204	I1081021C	480-188067-D-15-A	08/11/21 01:07 AM Unknown
205	I1081021C	480-188067-D-16-A	08/11/21 01:11 AM Unknown
206	I1081021C	480-188067-D-17-A	08/11/21 01:15 AM Unknown
207	I1081021C	CCV-6603765	08/11/21 01:19 AM QC
208	I1081021C	CCB-6597963	08/11/21 01:22 AM QC
209	I1081021C	CCVL-6603764	08/11/21 01:26 AM QC
210	I1081021C	480-188067-D-18-A	08/11/21 01:30 AM Unknown
211	I1081021C	480-188067-D-19-A	08/11/21 01:34 AM Unknown
212	I1081021C	480-188067-D-20-A	08/11/21 01:37 AM Unknown
213	I1081021C	LB 480-592152/1-B	08/11/21 01:41 AM Unknown
214	I1081021C	MB 480-592331/2-A	08/11/21 01:45 AM Unknown
215	I1081021C	LCS 480-592331/3-A	08/11/21 01:49 AM Unknown
216	I1081021C	480-187936-A-1-C	08/11/21 01:53 AM Unknown
217	I1081021C	480-188057-A-1-C	08/11/21 01:57 AM Unknown
218	I1081021C	480-188057-C-2-C	08/11/21 02:01 AM Unknown
219	I1081021C	CCV-6603765	08/11/21 02:05 AM QC
220	I1081021C	CCB-6597963	08/11/21 02:08 AM QC
221	I1081021C	CCVL-6603764	08/11/21 02:12 AM QC
222	I1081021C	480-187949-A-1-D	08/11/21 02:16 AM Unknown
223	I1081021C	480-187949-A-2-D	08/11/21 02:20 AM Unknown
224	I1081021C	480-187949-A-3-F	08/11/21 02:24 AM Unknown
225	I1081021C	480-187864-A-1-C	08/11/21 02:29 AM Unknown
226	I1081021C	480-187921-A-1-C	08/11/21 02:33 AM Unknown
227	I1081021C	480-187921-A-1-CSD@5	08/11/21 02:37 AM Unknown
228	I1081021C	480-187921-A-1-CPDS	08/11/21 02:40 AM Unknown
229	I1081021C	480-187921-A-1-D MS	08/11/21 02:44 AM Unknown
230	I1081021C	480-187921-A-1-E MSD	08/11/21 02:48 AM Unknown
231	I1081021C	CCV-6603765	08/11/21 02:52 AM QC
232	I1081021C	CCB-6597963	08/11/21 02:56 AM QC
233	I1081021C	CCVL-6603764	08/11/21 03:00 AM QC
234	I1081021C	480-188005-B-1-C	08/11/21 03:04 AM Unknown
235	I1081021C	CCVL-6603764	08/11/21 03:07 AM QC
236	I1081021C	CCV-6603765	08/11/21 03:11 AM QC
237	I1081021C	CCB-6597963	08/11/21 03:15 AM QC

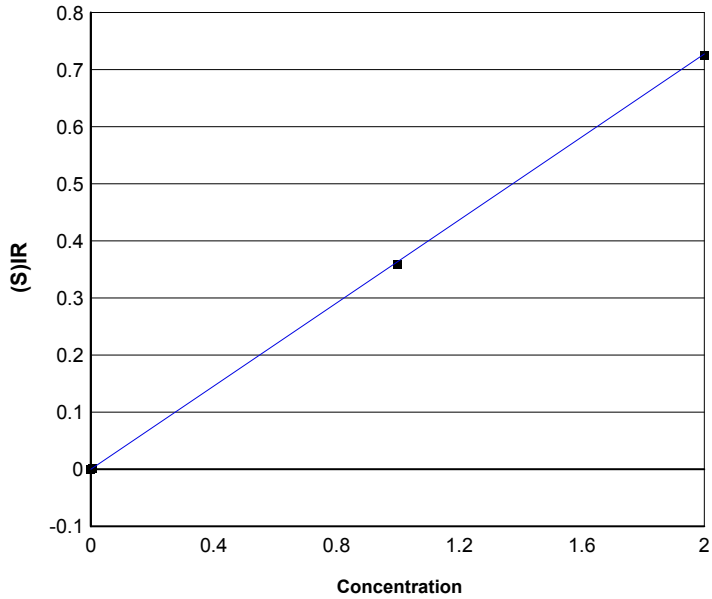
I1081021C

Author: LMH

Published: 8/11/2021 9:12:01AM

Instrument Name: iCAP1 Serial Number: 20094603

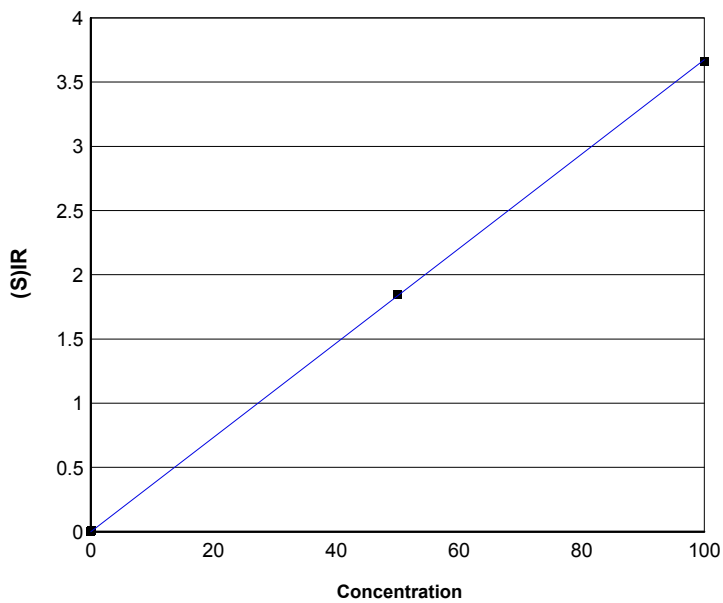
Method Name: ICAP1 New Stds (890)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00022167
A1 (Gain):	0.36371
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

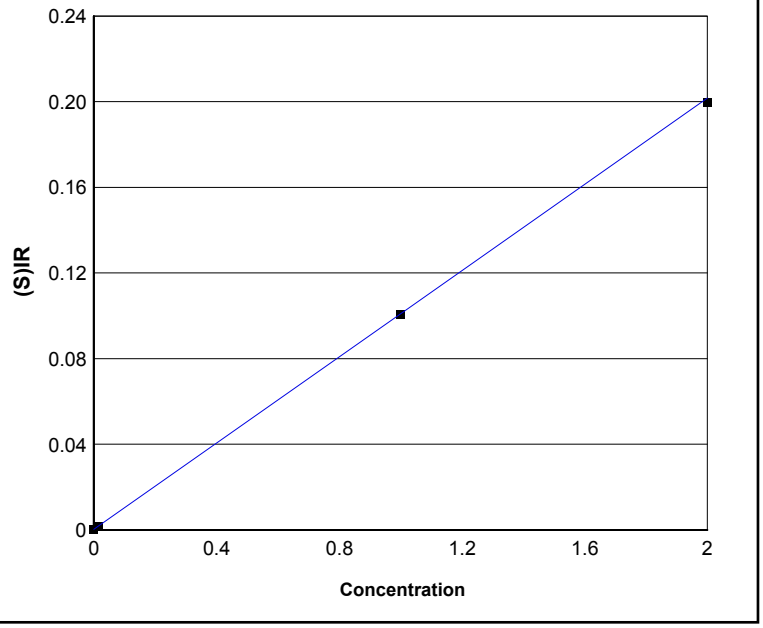
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000003692	0.0000003692	0.00000	-0.00022154	0.000052766	1
IC-6603764	0.0060000	0.0056477	-0.00035232	-5.8720	0.0018325	0.00016744	1
IC-6603765	1.0000	0.99400	-0.0059954	-0.59954	0.35890	0.0015352	1
IC-6582679	2.0000	2.0064	0.0063501	0.31750	0.72469	0.00037363	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00034675
A1 (Gain):	0.036739
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

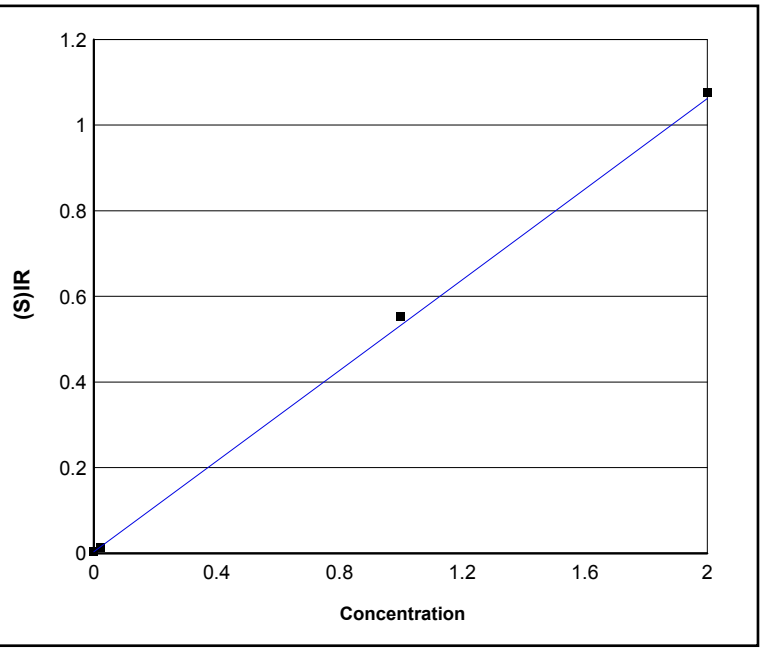
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000027032	-0.0000027032	0.00000	0.00034665	0.00052514	1
IC-6603764	0.20000	0.20213	0.0021309	1.0655	0.0077728	0.00066324	1
IC-6603765	50.000	50.288	0.28827	0.57655	1.8479	0.0013287	1
IC-6582679	100.00	99.710	-0.29040	-0.29040	3.6636	0.0057604	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.00020916
A1 (Gain):	0.10077
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

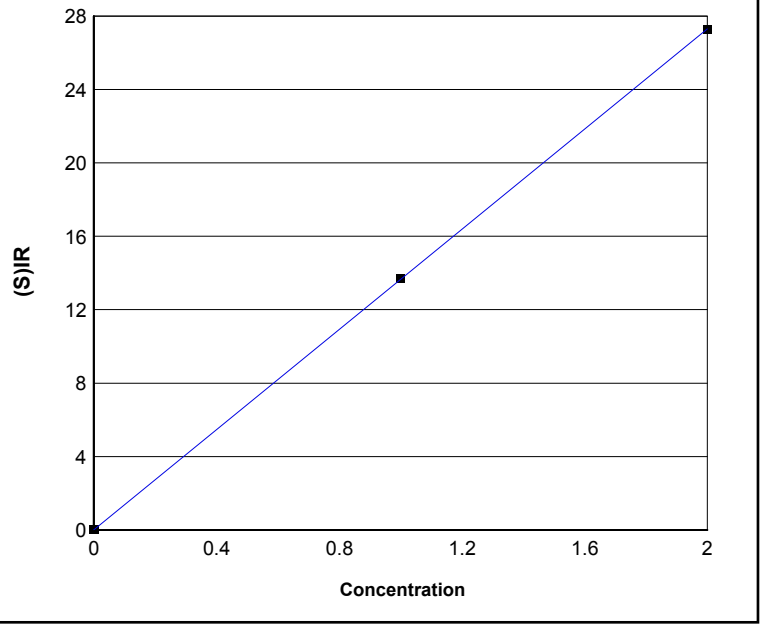
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000026447	0.0000026447	0.00000	0.00020943	0.000096083	1
IC-6603764	0.015000	0.012290	-0.0027099	-18.066	0.0014439	0.00021428	1
IC-6603765	1.0000	1.0060	0.0059648	0.59648	0.10066	0.000041724	1
IC-6582679	2.0000	1.9968	-0.0032366	-0.16183	0.19958	0.000018278	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0034689
A1 (Gain):	0.52915
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

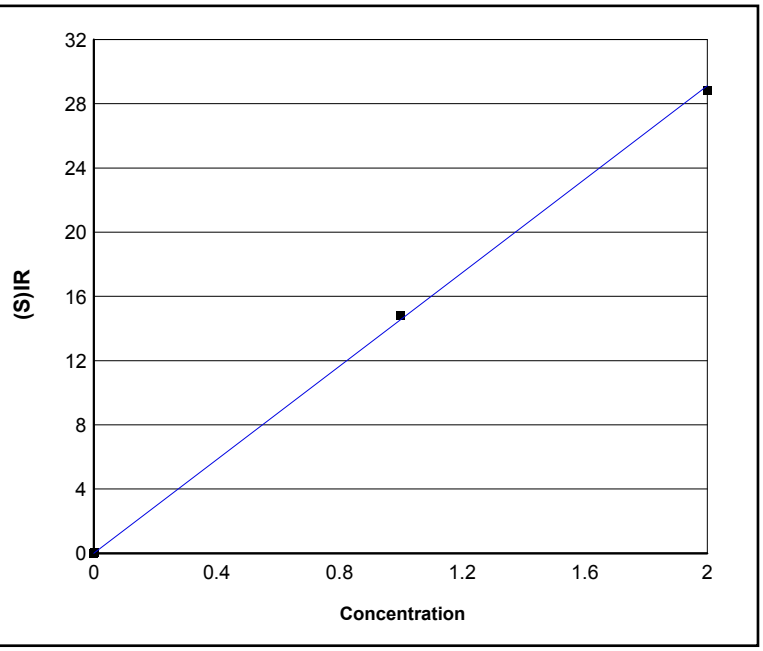
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000006747	0.0000006747	0.00000	0.0034692	0.00012546	1
IC-6603764	0.020000	0.019135	-0.00086462	-4.3231	0.013712	0.00012394	1
IC-6603765	1.0000	1.0181	0.018134	1.8134	0.55394	0.00026518	1
IC-6582679	2.0000	1.9827	-0.017279	-0.86396	1.0761	0.00038093	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.012900
A1 (Gain):	13.643
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

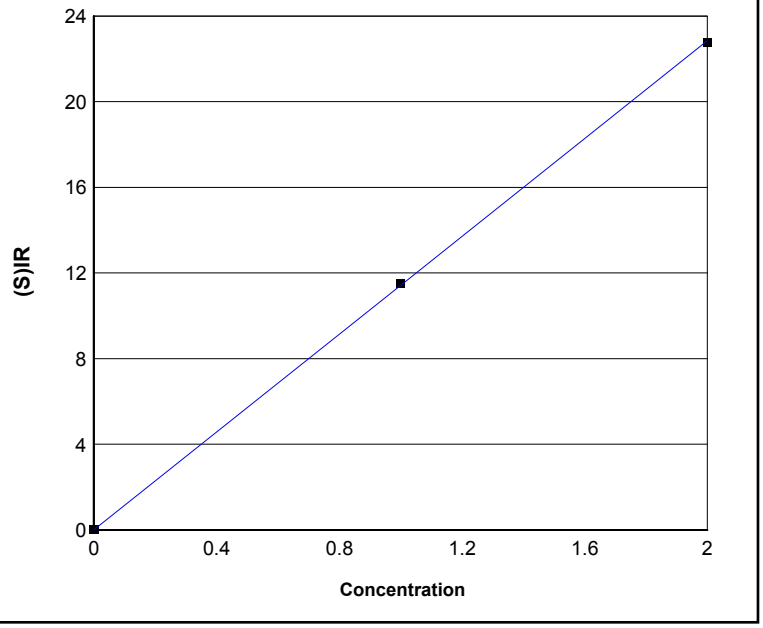
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000000932	0.0000000932	0.00000	0.012901	0.00014201	1
IC-6603764	0.0020000	0.0019039	-0.000096077	-4.8038	0.038876	0.0022877	1
IC-6603765	1.0000	1.0028	0.0027964	0.27964	13.694	0.0077179	1
IC-6582679	2.0000	1.9973	-0.0027004	-0.13502	27.263	0.0036523	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.0027437
A1 (Gain):	14.555
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

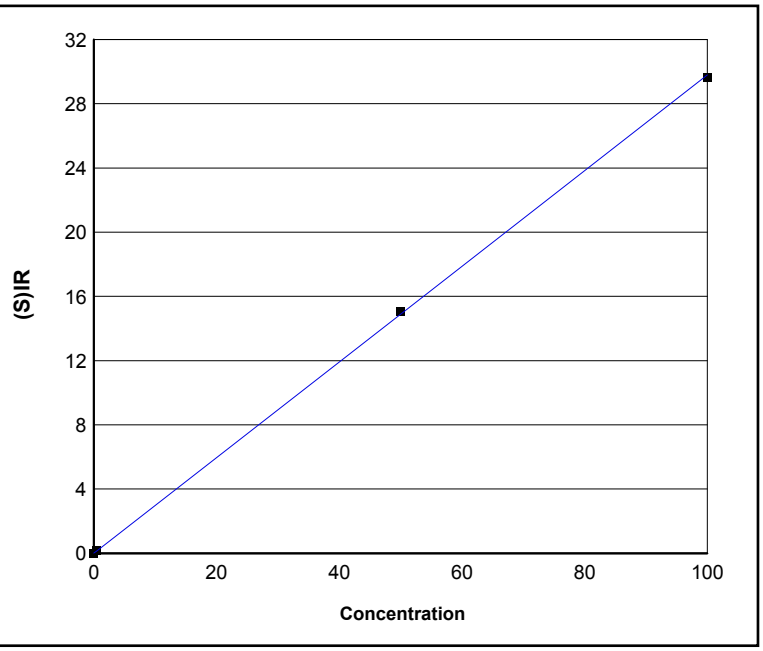
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000001685	-0.0000001685	0.00000	0.0027412	0.00038852	1
IC-6603764	0.0020000	0.0021497	0.00014971	7.4854	0.034032	0.00030708	1
IC-6603765	1.0000	1.0189	0.018897	1.8897	14.833	0.081563	1
IC-6582679	2.0000	1.9810	-0.019047	-0.95235	28.835	0.029952	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.00044435
A1 (Gain):	11.427
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

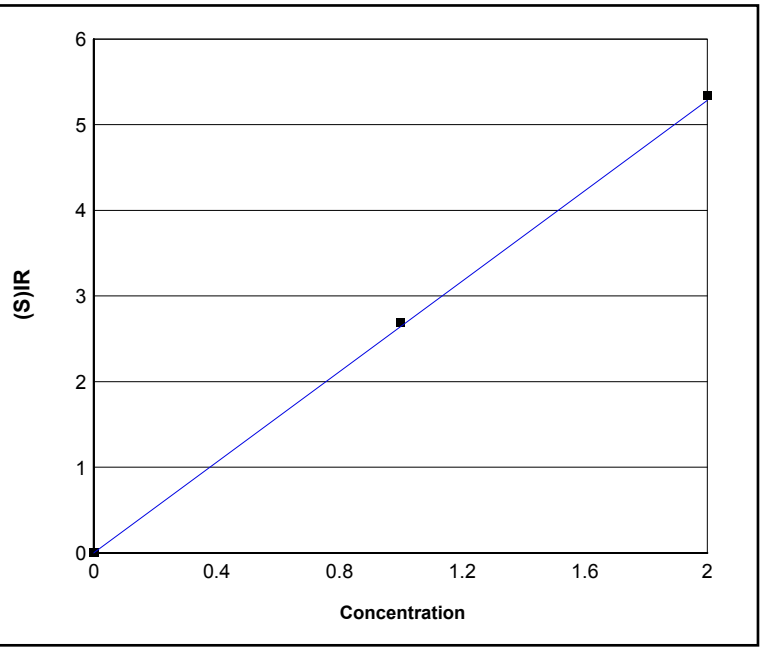
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000000333	0.0000000333	0.00000	0.00044473	0.0017406	1
IC-6603764	0.0020000	0.0019591	-0.000040929	-2.0464	0.022788	0.00055165	1
IC-6603765	1.0000	1.0076	0.0076286	0.76286	11.506	0.039605	1
IC-6582679	2.0000	1.9924	-0.0075877	-0.37938	22.751	0.070525	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.014594
A1 (Gain):	0.29774
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

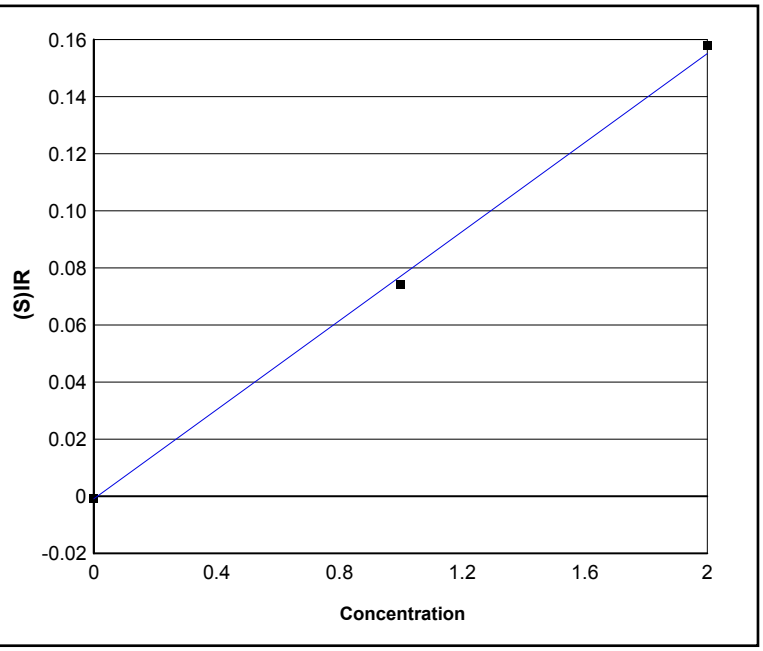
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000037548	-0.0000037548	0.00000	0.014593	0.00021996	1
IC-6603764	0.50000	0.50148	0.0014817	0.29633	0.16390	0.00029037	1
IC-6603765	50.000	50.456	0.45612	0.91223	15.037	0.059287	1
IC-6582679	100.00	99.542	-0.45760	-0.45760	29.652	0.12176	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00060868
A1 (Gain):	2.6420
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

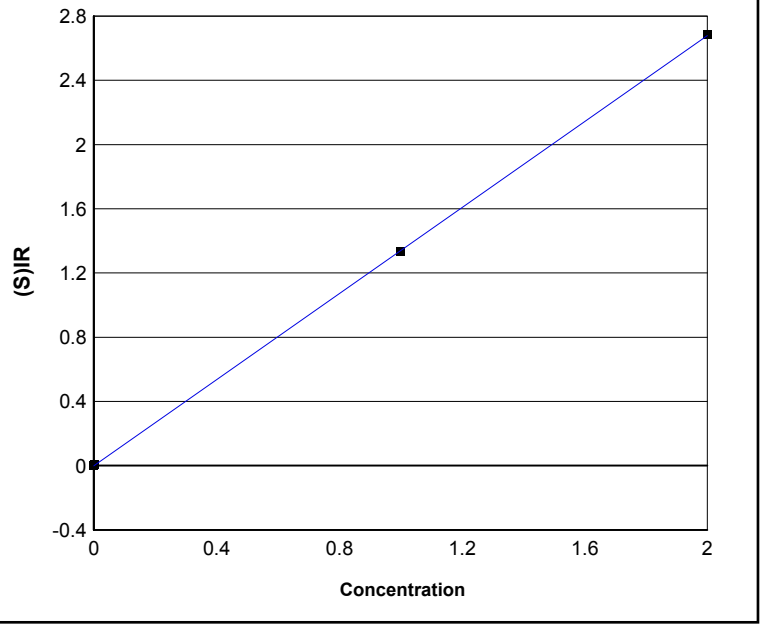
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000000022	-0.0000000022	0.00000	0.00060868	0.00018721	1
IC-6603764	0.0020000	0.0019984	-0.0000016038	-0.080189	0.0064151	0.00042866	1
IC-6603765	1.0000	1.0038	0.0037967	0.37967	2.6877	0.0031108	1
IC-6582679	2.0000	1.9962	-0.0037949	-0.18975	5.3447	0.00089397	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.9996
A0 (Offset):	-0.0008793
A1 (Gain):	0.07799
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

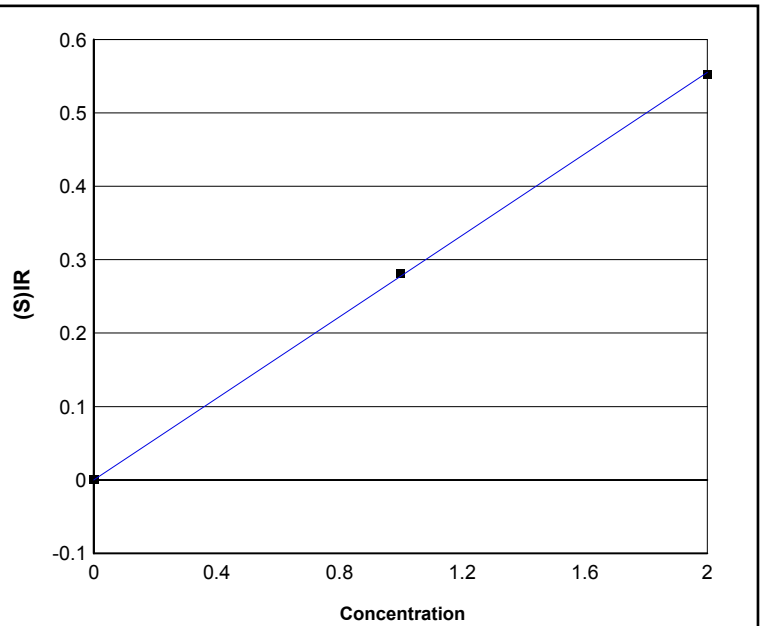
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000	0.00001884	0.00001884	0.0000	-0.0008779	0.0003316	1
IC-6603765	1.000	0.9623	-0.03769	-3.769	0.07418	0.001180	1
IC-6582679	2.000	2.038	0.03769	1.884	0.1580	0.0009888	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00042656
A1 (Gain):	1.3394
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

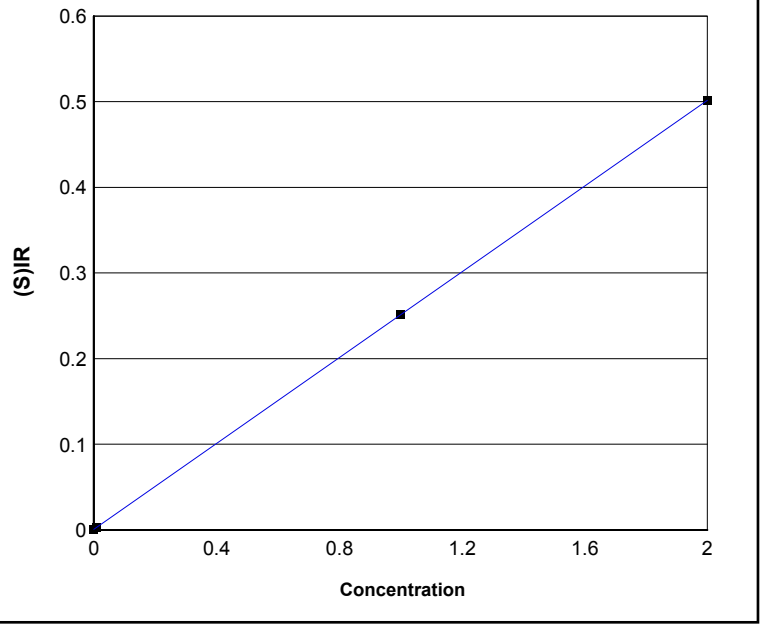
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000000453	0.0000000453	0.00000	-0.00042650	0.000092191	1
IC-6603764	0.0040000	0.0039598	-0.000040202	-1.0051	0.0048728	0.00019433	1
IC-6603765	1.0000	0.99742	-0.0025781	-0.25781	1.3361	0.00011792	1
IC-6582679	2.0000	2.0026	0.0026182	0.13091	2.6830	0.00016468	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	-0.000021862
A1 (Gain):	0.27771
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

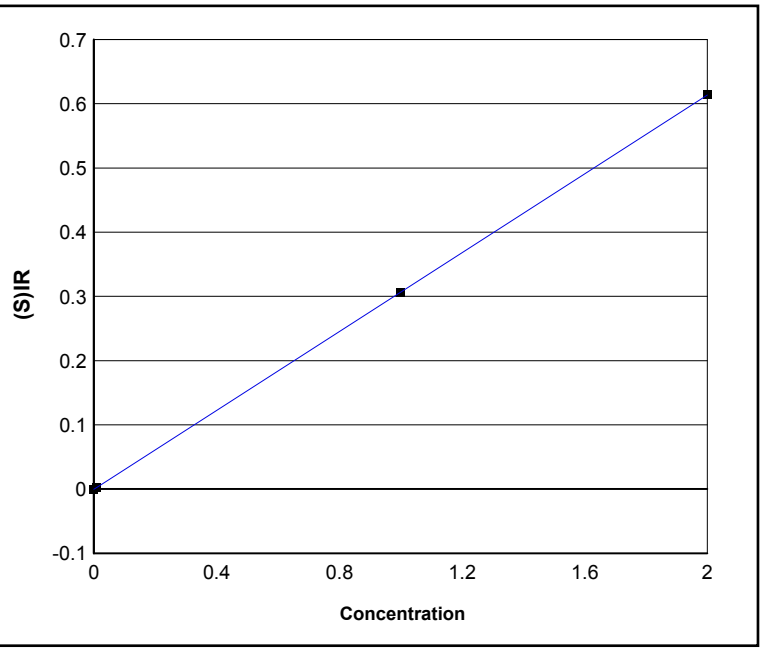
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000001897	0.0000001897	0.00000	-0.000021809	0.000052001	1
IC-6603764	0.0040000	0.0037894	-0.00021064	-5.2659	0.0010308	0.000040616	1
IC-6603765	1.0000	1.0103	0.010277	1.0277	0.28073	0.00095553	1
IC-6582679	2.0000	1.9899	-0.010067	-0.50334	0.55298	0.00095752	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00077312
A1 (Gain):	0.25052
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

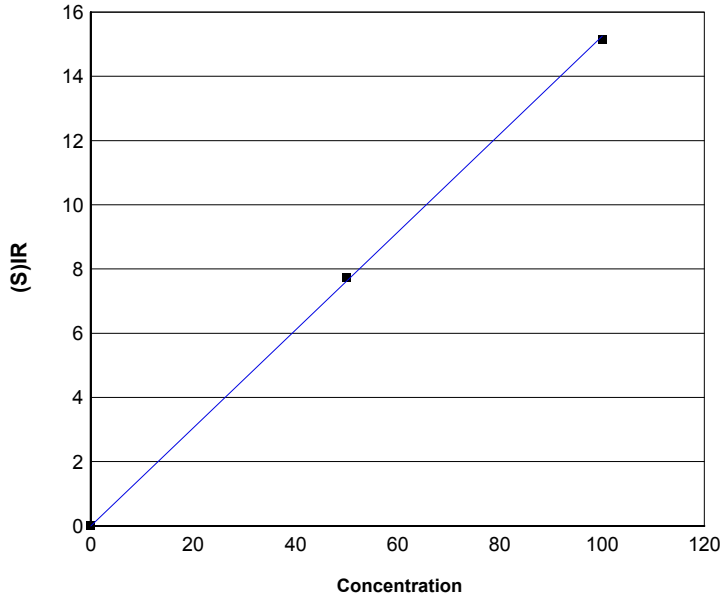
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000004670	0.0000004670	0.00000	0.00077324	0.000019883	1
IC-6603764	0.010000	0.0095202	-0.00047981	-4.7981	0.0031581	0.000028449	1
IC-6603765	1.0000	1.0021	0.0020842	0.20842	0.25181	0.00021785	1
IC-6582679	2.0000	1.9984	-0.0016044	-0.080218	0.50140	0.00019415	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.00016346
A1 (Gain):	0.30697
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

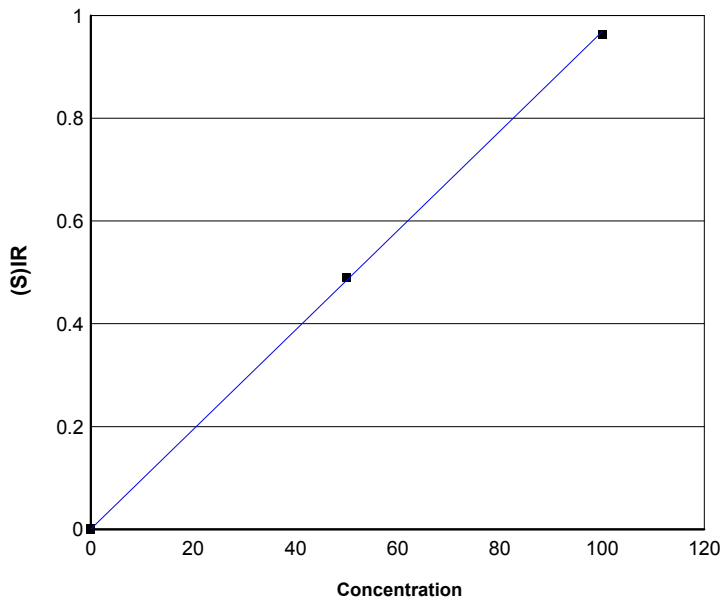
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000004933	0.0000004933	0.00000	-0.00016331	0.000066962	1
IC-6603764	0.010000	0.0095131	-0.00048689	-4.8689	0.0027580	0.000014835	1
IC-6603765	1.0000	0.99823	-0.0017740	-0.17740	0.30638	0.00011652	1
IC-6582679	2.0000	2.0023	0.0022608	0.11304	0.61471	0.0011806	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	0.0013237
A1 (Gain):	0.15243
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

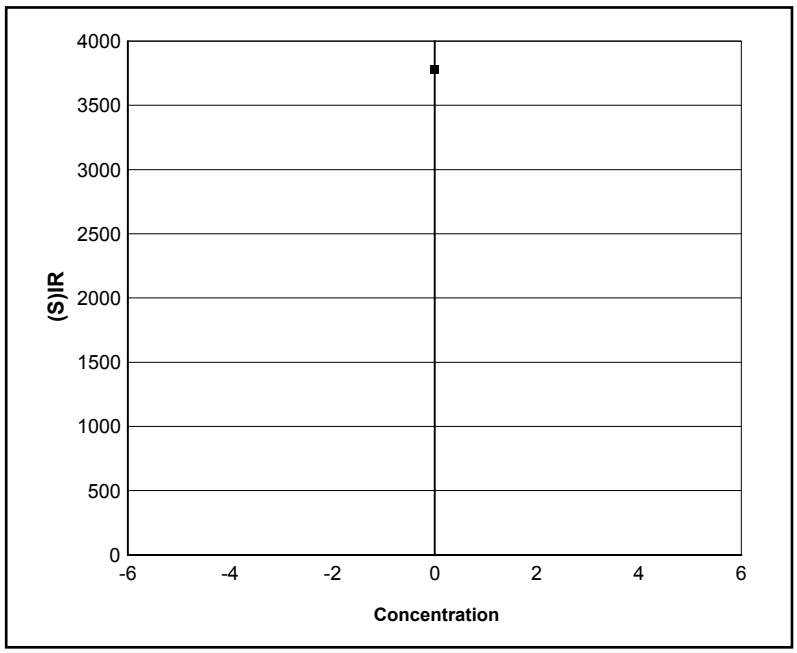
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000012210	0.0000012210	0.00000	0.0013239	0.00065268	1
IC-6603764	0.050000	0.048404	-0.0015964	-3.1927	0.0087020	0.00042688	1
IC-6603765	50.025	50.774	0.74949	1.4982	7.7409	0.018504	1
IC-6582679	100.05	99.302	-0.74790	-0.74752	15.138	0.020847	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	0.00044778
A1 (Gain):	0.0096820
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

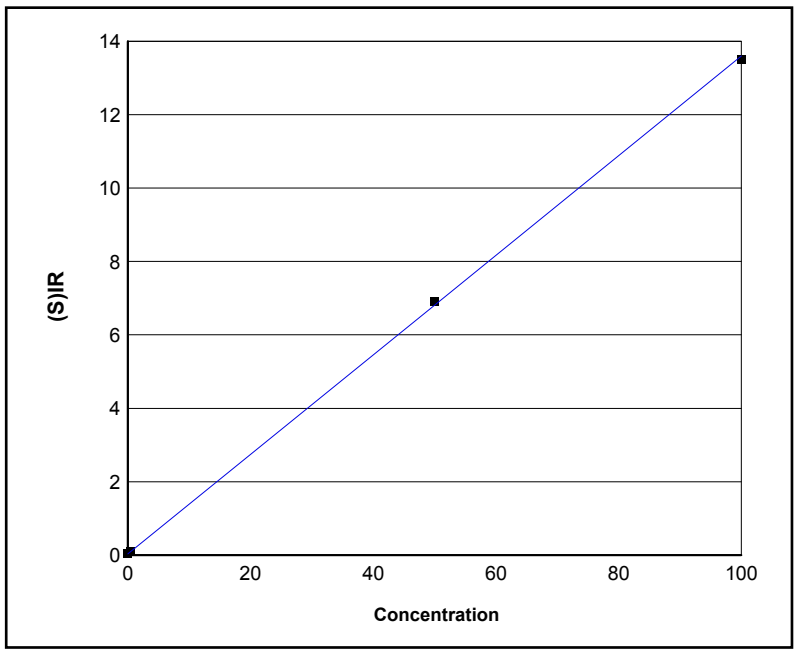
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000091972	-0.0000091972	0.00000	0.00044769	0.00042841	1
IC-6603764	0.050000	0.058901	0.0089010	17.802	0.0010181	0.0016651	1
IC-6603765	50.025	50.626	0.60144	1.2023	0.49061	0.0010006	1
IC-6582679	100.05	99.440	-0.61034	-0.61004	0.96322	0.0012048	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:11:19PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

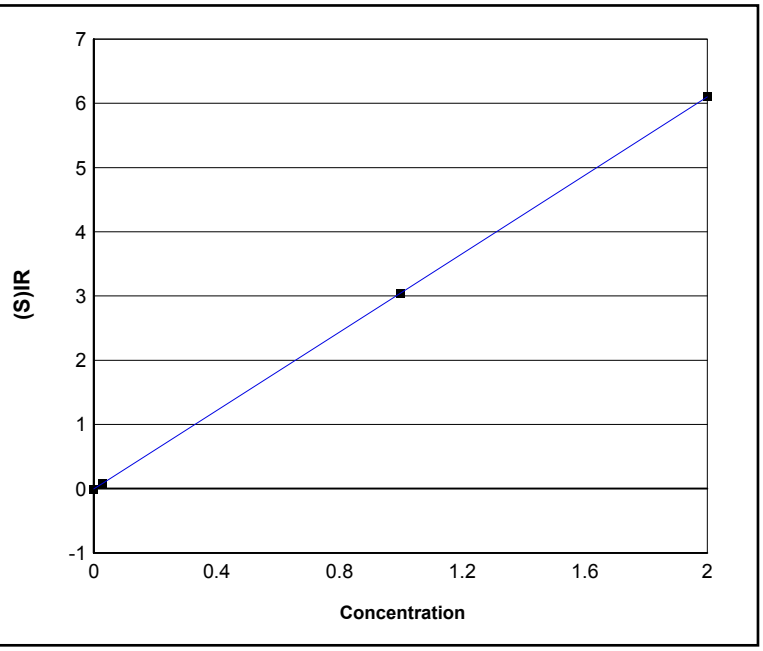
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000			0.0000	3,777	0.1707	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.033228
A1 (Gain):	0.13565
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

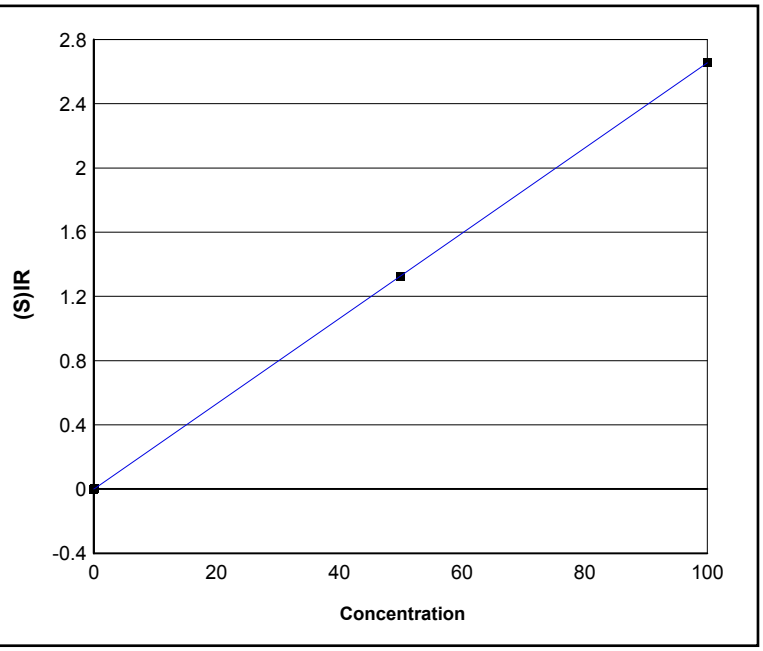
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.000014585	0.000014585	0.00000	0.033230	0.0013968	1
IC-6603764	0.50000	0.48174	-0.018262	-3.6525	0.098576	0.0040215	1
IC-6603765	50.000	50.717	0.71719	1.4344	6.9131	0.0048129	1
IC-6582679	100.00	99.301	-0.69893	-0.69893	13.503	0.026860	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.0044194
A1 (Gain):	3.0517
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

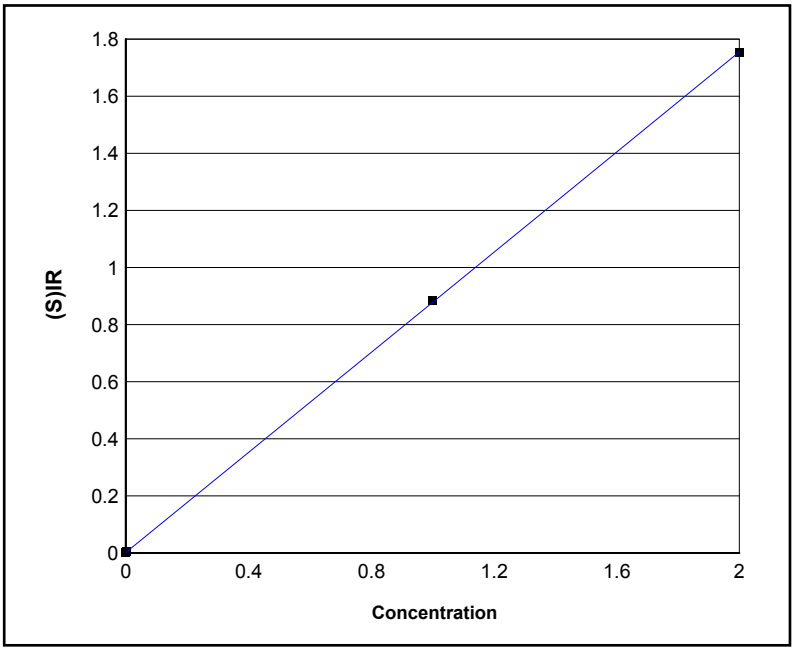
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000012784	0.0000012784	0.00000	-0.0044155	0.0068727	1
IC-6603764	0.030000	0.028731	-0.0012693	-4.2309	0.083259	0.0022945	1
IC-6603765	1.0000	0.99812	-0.0018763	-0.18763	3.0416	0.0065996	1
IC-6582679	2.0000	2.0031	0.0031456	0.15728	6.1087	0.0016635	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	-0.000042393
A1 (Gain):	0.026550
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

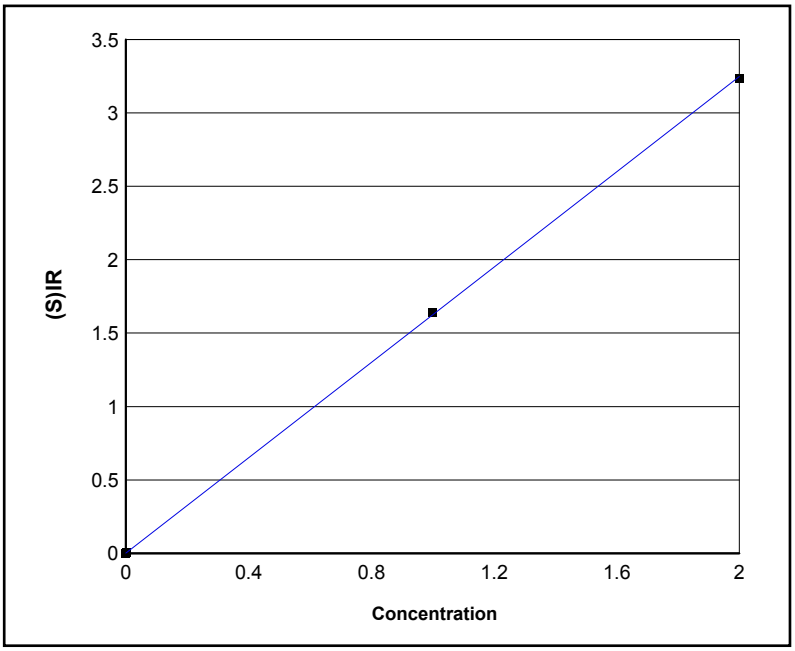
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000021954	0.0000021954	0.00000	-0.000042334	0.000020850	1
IC-6603764	0.20000	0.19796	-0.0020412	-1.0206	0.0052132	0.000010347	1
IC-6603765	50.000	49.921	-0.079132	-0.15826	1.3253	0.0055331	1
IC-6582679	100.00	100.08	0.081173	0.081173	2.6569	0.0061715	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	0.0013376
A1 (Gain):	0.87717
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

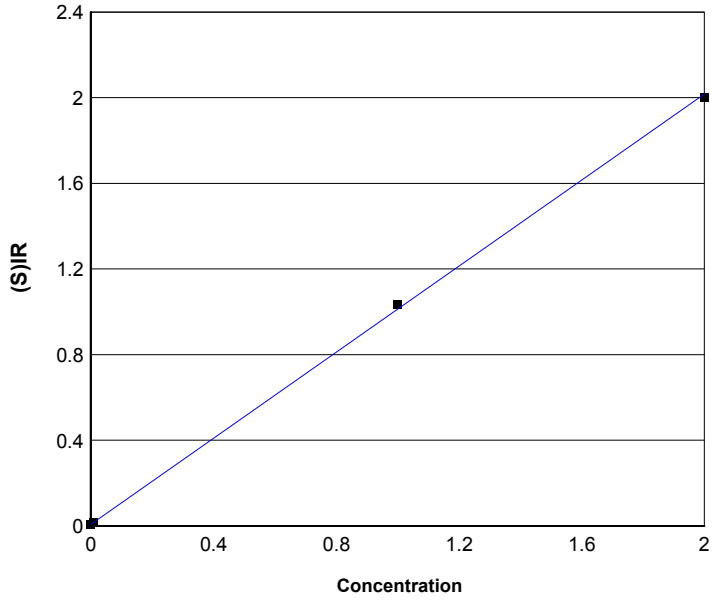
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000002075	0.0000002075	0.00000	0.0013378	0.00020858	1
IC-6603764	0.0030000	0.0027849	-0.00021508	-7.1694	0.0037816	0.000051821	1
IC-6603765	1.0000	1.0049	0.0048692	0.48692	0.88318	0.0030913	1
IC-6582679	2.0000	1.9953	-0.0046542	-0.23271	1.7524	0.0034459	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0012230
A1 (Gain):	1.6229
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

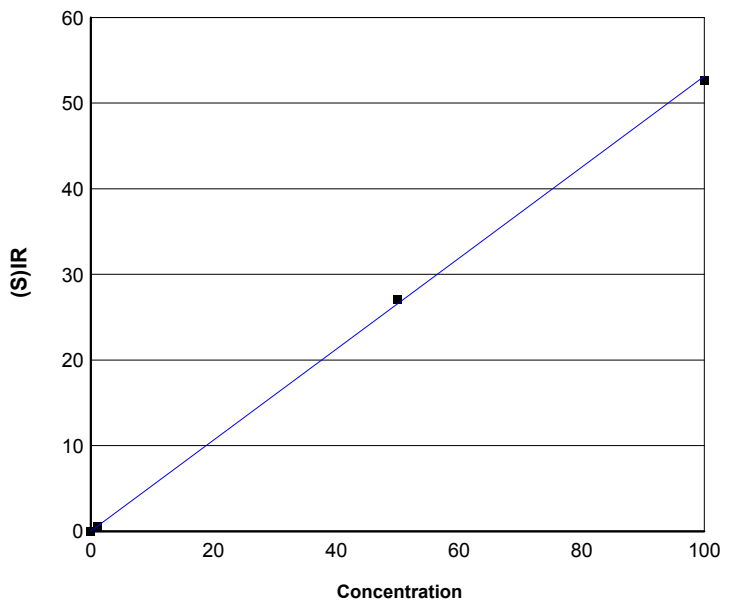
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000002854	-0.0000002854	0.00000	0.0012225	0.000041819	1
IC-6603764	0.0030000	0.0032716	0.00027163	9.0544	0.0065340	0.000038394	1
IC-6603765	1.0000	1.0095	0.0094714	0.94714	1.6397	0.0067464	1
IC-6582679	2.0000	1.9903	-0.0097431	-0.48715	3.2317	0.0019416	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99962
A0 (Offset):	0.0080471
A1 (Gain):	1.0048
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

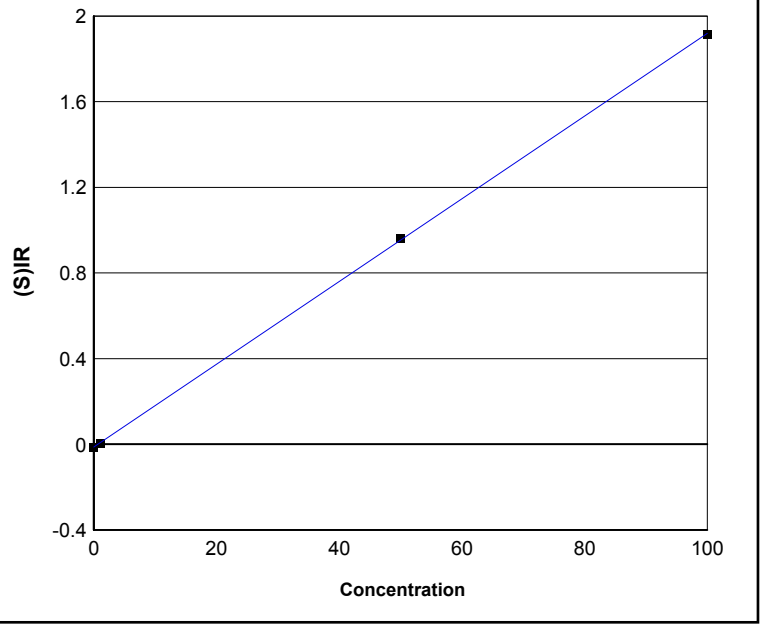
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000039654	0.0000039654	0.00000	0.0080511	0.00060185	1
IC-6603764	0.010000	0.0059055	-0.0040945	-40.945	0.013981	0.00030760	1
IC-6603765	1.0000	1.0217	0.021720	2.1720	1.0347	0.0029951	1
IC-6582679	2.0000	1.9824	-0.017626	-0.88129	1.9999	0.011159	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.010154
A1 (Gain):	0.53130
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

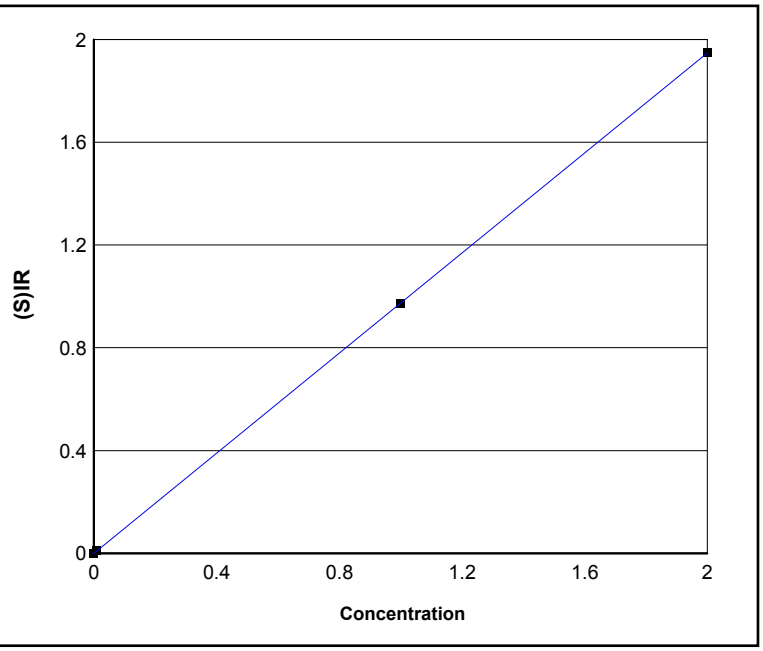
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	-0.000033740	-0.000033740	0.00000	0.010137	0.0018178	1
IC-6603764	1.0000	1.0251	0.025135	2.5135	0.55481	0.00081408	1
IC-6603765	50.000	50.886	0.88564	1.7713	27.046	0.054263	1
IC-6582679	100.00	99.089	-0.91077	-0.91077	52.656	0.068137	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99994
A0 (Offset):	-0.013404
A1 (Gain):	0.019335
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

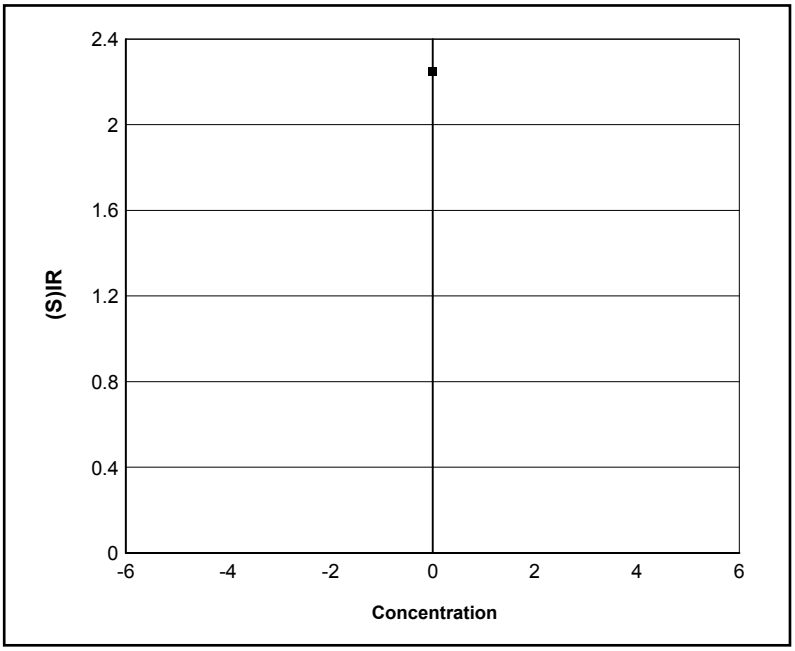
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.00011235	0.00011235	0.00000	-0.013402	0.00089081	1
IC-6603764	1.0000	0.88234	-0.11766	-11.766	0.0036561	0.0030172	1
IC-6603765	50.000	50.414	0.41358	0.82716	0.96136	0.0025639	1
IC-6582679	100.00	99.704	-0.29592	-0.29592	1.9144	0.0018495	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.00029933
A1 (Gain):	0.97365
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

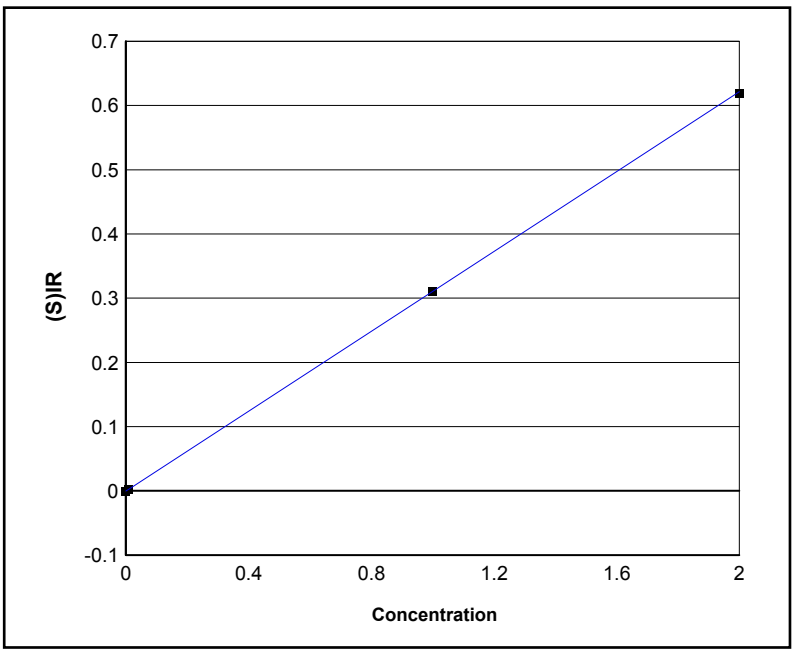
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000001589	0.0000001589	0.00000	0.00029949	0.000053858	1
IC-6603764	0.010000	0.0098435	-0.00015653	-1.5653	0.0098839	0.00041018	1
IC-6603765	1.0000	0.99937	-0.00063305	-0.063305	0.97381	0.0012830	1
IC-6582679	2.0000	2.0008	0.00078951	0.039475	1.9493	0.00055879	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:11:19PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

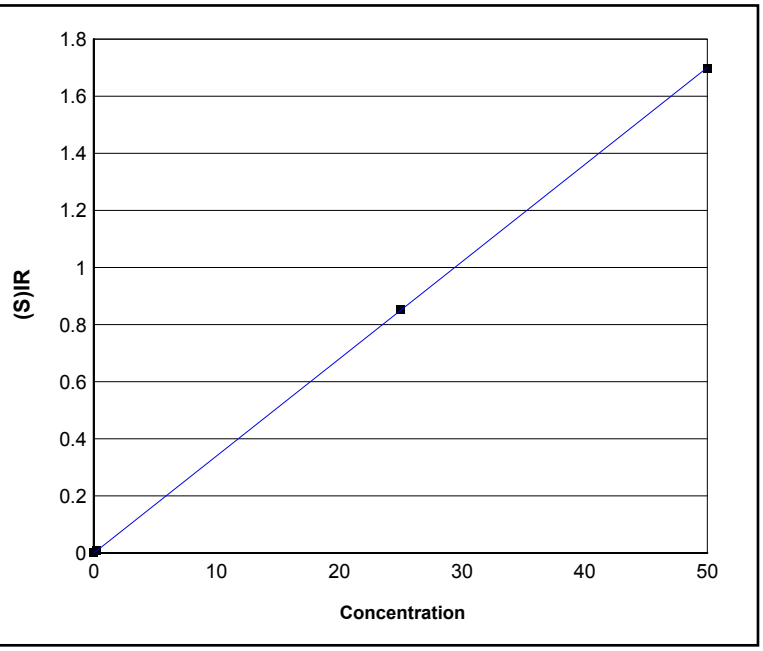
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000			0.0000	2.247	0.5910	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00039407
A1 (Gain):	0.31100
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

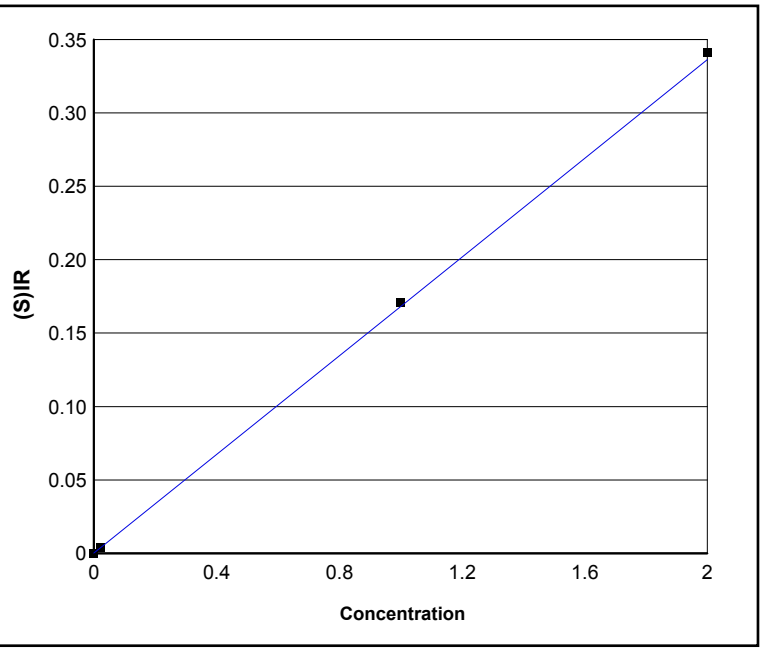
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000009353	0.0000009353	0.00000	-0.00039378	0.00048115	1
IC-6603764	0.010000	0.0090571	-0.00094293	-9.4293	0.0024190	0.00013945	1
IC-6603765	1.0000	1.0006	0.00057764	0.057764	0.30966	0.00060113	1
IC-6582679	2.0000	2.0004	0.00036761	0.018380	0.61947	0.00098406	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.0002144
A1 (Gain):	0.03400
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

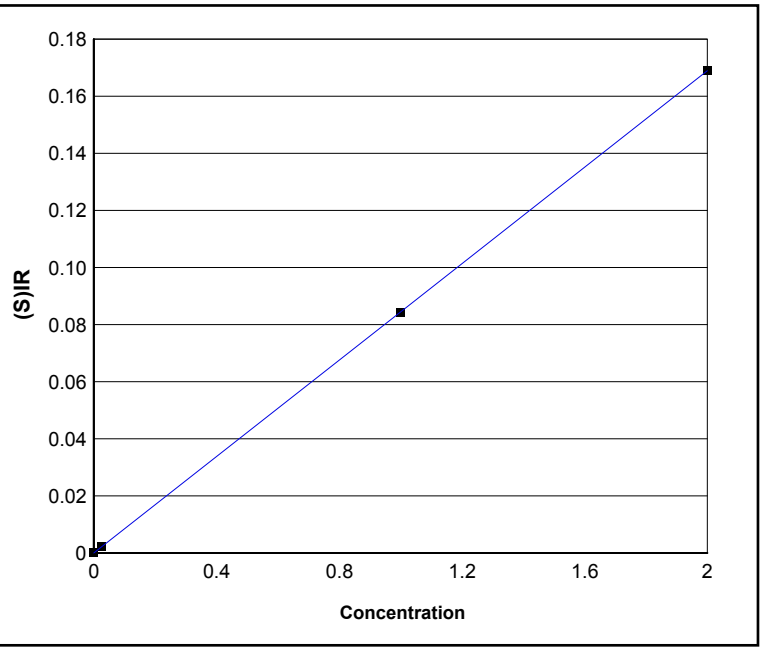
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000	0.000007629	0.000007629	0.0000	0.0002146	0.0001407	1
IC-6603764	0.2000	0.1919	-0.008141	-4.071	0.006738	0.000007670	1
IC-6603765	25.00	25.12	0.1199	0.4797	0.8544	0.0003272	1
IC-6582679	50.00	49.89	-0.1118	-0.2236	1.697	0.002427	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.00011097
A1 (Gain):	0.16811
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

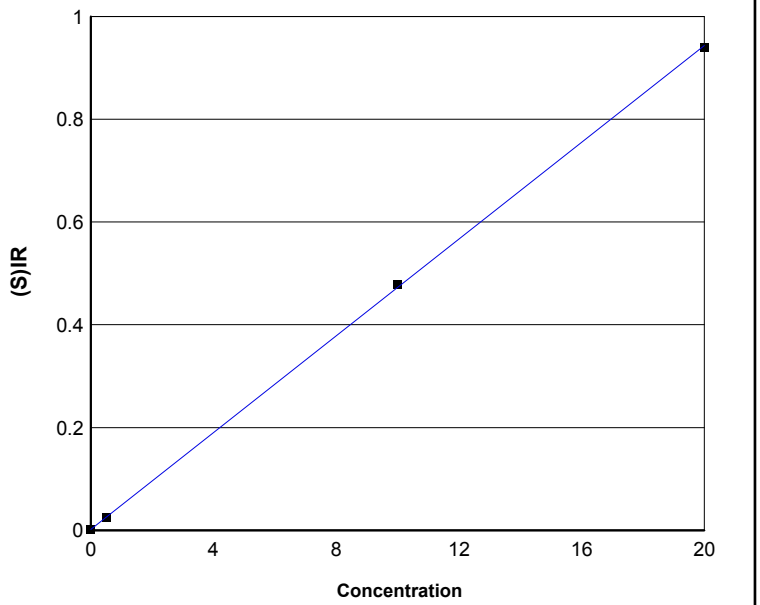
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000017755	-0.0000017755	0.00000	0.00011067	0.00045368	1
IC-6603764	0.020000	0.021796	0.0017962	8.9808	0.0037866	0.000056832	1
IC-6603765	1.0000	0.99971	-0.00029286	-0.029286	0.17084	0.00039549	1
IC-6582679	2.0000	1.9985	-0.0014812	-0.074062	0.34143	0.0010892	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.000016089
A1 (Gain):	0.084479
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

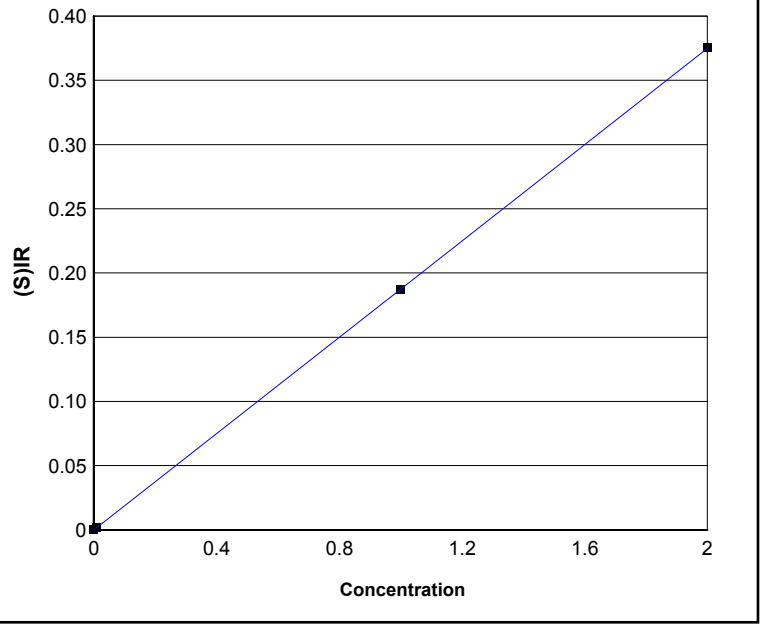
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000002447	0.0000002447	0.00000	0.000016110	0.000054481	1
IC-6603764	0.025000	0.024775	-0.00022461	-0.89844	0.0021089	0.000016086	1
IC-6603765	1.0000	0.99817	-0.0018284	-0.18284	0.084303	0.00029741	1
IC-6582679	2.0000	2.0021	0.0020530	0.10265	0.16907	0.00020306	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99997
A0 (Offset):	0.0020513
A1 (Gain):	0.047068
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

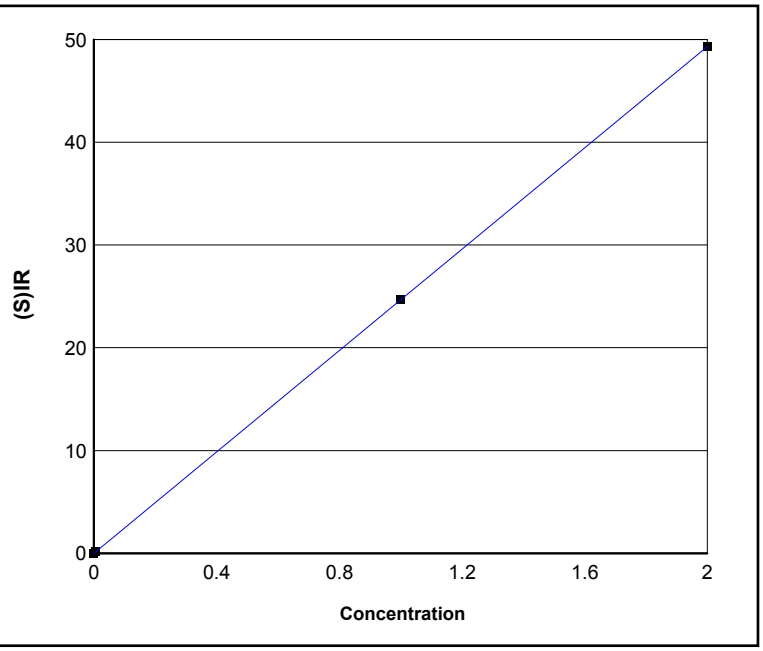
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.000011484	0.000011484	0.00000	0.0020519	0.00082038	1
IC-6603764	0.50000	0.48557	-0.014431	-2.8862	0.024906	0.0011272	1
IC-6603765	10.000	10.103	0.10346	1.0346	0.47760	0.00023875	1
IC-6582679	20.000	19.911	-0.089031	-0.44516	0.93922	0.0013720	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00010203
A1 (Gain):	0.18743
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

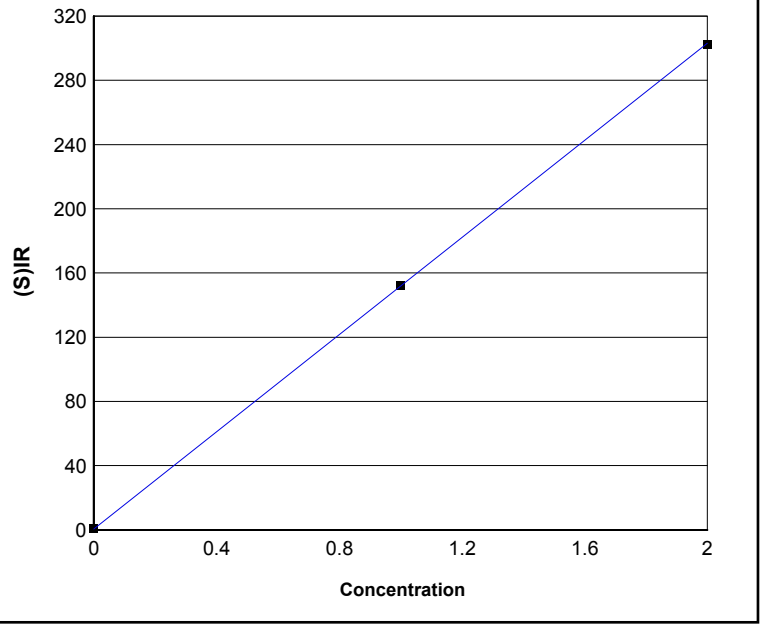
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000016070	0.0000016070	0.00000	0.00010233	0.0000036456	1
IC-6603764	0.010000	0.0083971	-0.0016029	-16.029	0.0016759	0.0000025735	1
IC-6603765	1.0000	0.99757	-0.0024279	-0.24279	0.18708	0.00016893	1
IC-6582679	2.0000	2.0040	0.0040308	0.20154	0.37573	0.00057031	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.00000
A0 (Offset):	0.0041761
A1 (Gain):	24.651
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

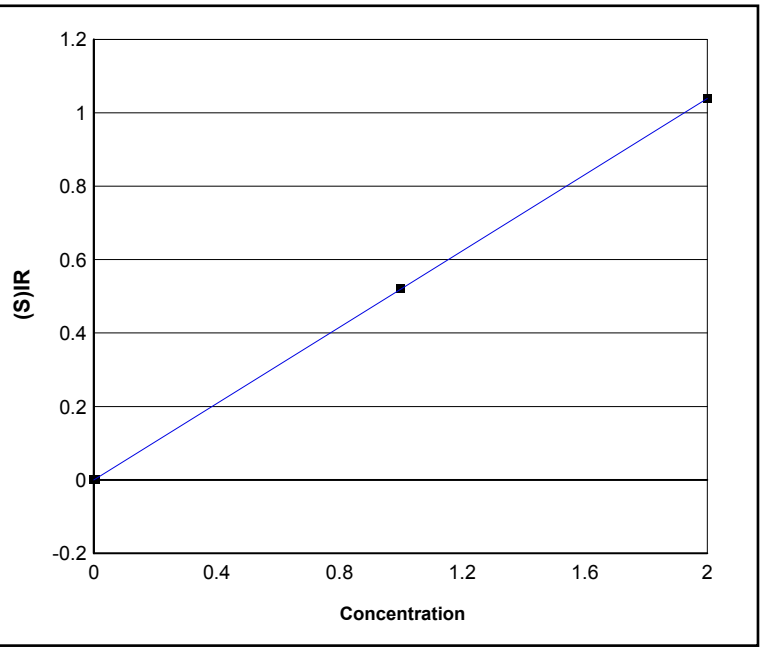
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000001036	0.0000001036	0.00000	0.0041787	0.00064243	1
IC-6603764	0.0050000	0.0048936	-0.00010645	-2.1290	0.12481	0.00030371	1
IC-6603765	1.0000	1.0010	0.0010184	0.10184	24.680	0.0043970	1
IC-6582679	2.0000	1.9991	-0.00091199	-0.045600	49.284	0.040862	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.6503
A1 (Gain):	151.2
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

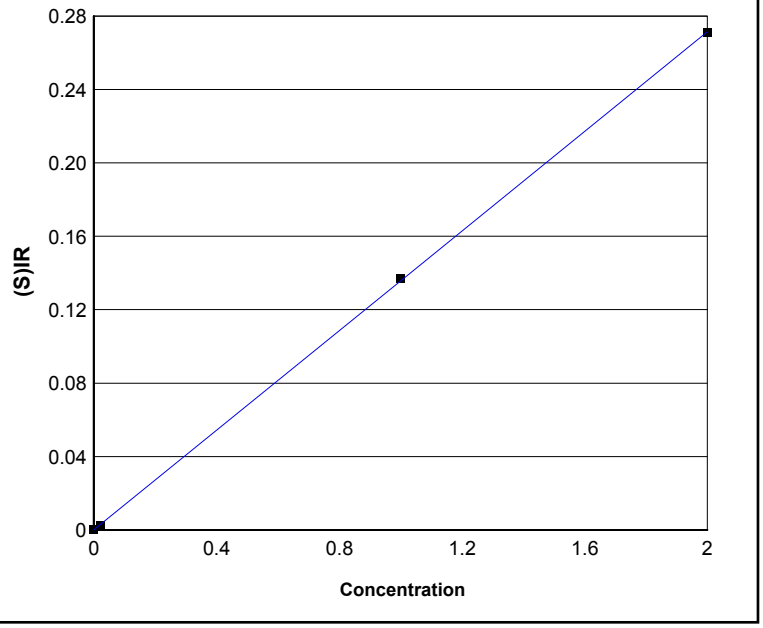
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000	-0.000001673	-0.000001673	0.0000	0.6500	2.083	1
IC-6603765	1.000	1.003	0.003345	0.3345	152.4	1.189	1
IC-6582679	2.000	1.997	-0.003345	-0.1673	302.6	1.619	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99999
A0 (Offset):	-0.00031515
A1 (Gain):	0.51992
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

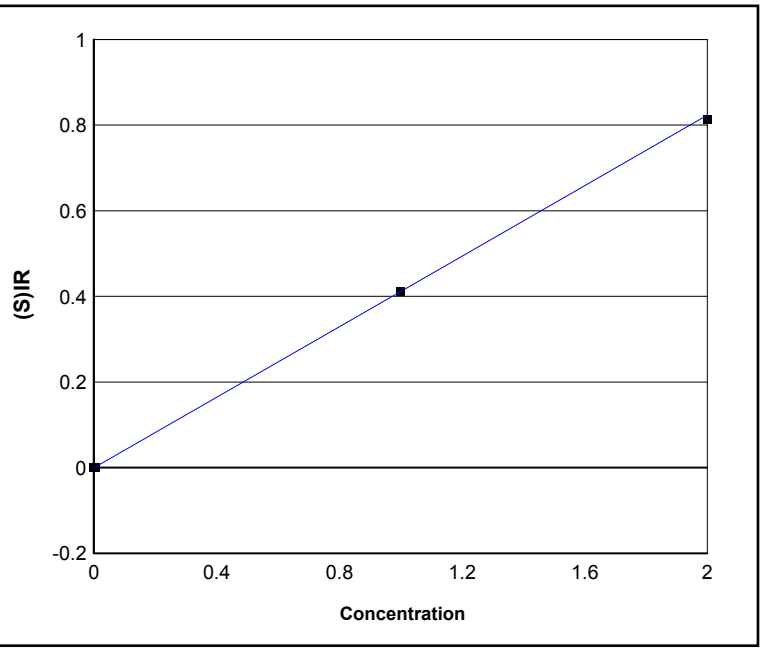
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000003841	0.0000003841	0.00000	-0.00031495	0.000075045	1
IC-6603764	0.0050000	0.0046062	-0.00039383	-7.8767	0.0020821	0.00019258	1
IC-6603765	1.0000	1.0035	0.0035045	0.35045	0.52175	0.00099806	1
IC-6582679	2.0000	1.9969	-0.0031106	-0.15553	1.0385	0.0011409	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	0.0000054367
A1 (Gain):	0.13577
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

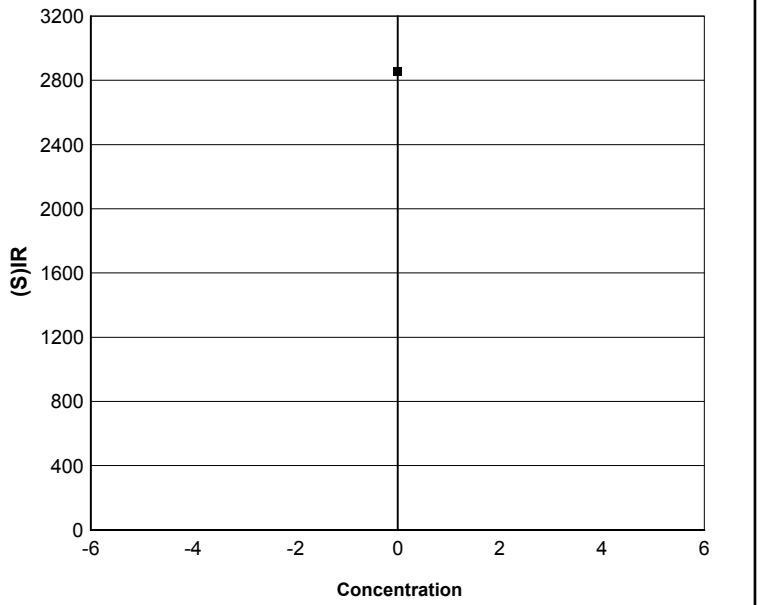
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000008835	0.0000008835	0.00000	0.0000055566	0.0000018693	1
IC-6603764	0.020000	0.019043	-0.00095708	-4.7854	0.0025919	0.000035799	1
IC-6603765	1.0000	1.0064	0.0064073	0.64073	0.13689	0.00021655	1
IC-6582679	2.0000	1.9945	-0.0054516	-0.27258	0.27130	0.00019656	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99998
A0 (Offset):	-0.00024056
A1 (Gain):	0.41198
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

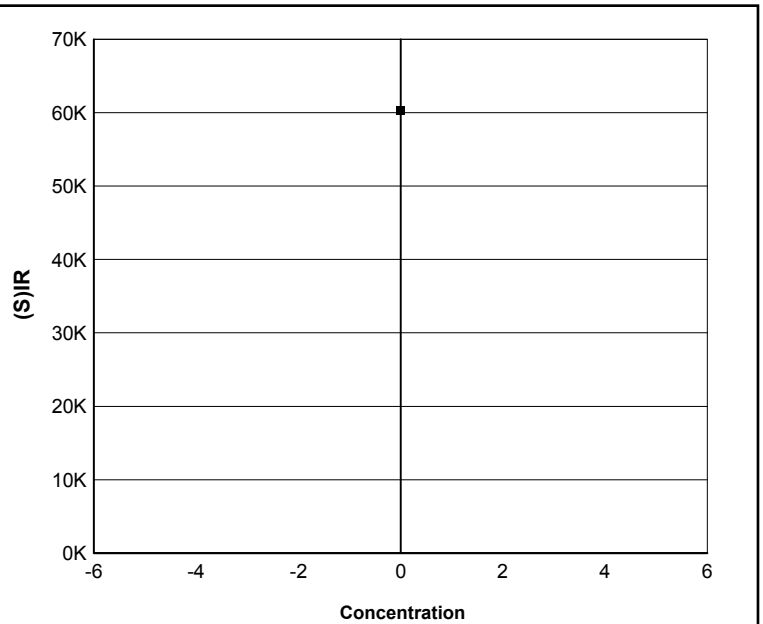
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000001599	0.0000001599	0.00000	-0.00024049	0.000092167	1
IC-6603764	0.0050000	0.0048194	-0.00018062	-3.6124	0.0017080	0.0000075523	1
IC-6603765	1.0000	1.0081	0.0081138	0.81138	0.41186	0.00085229	1
IC-6582679	2.0000	1.9921	-0.0079350	-0.39675	0.81400	0.00075160	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:11:19PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

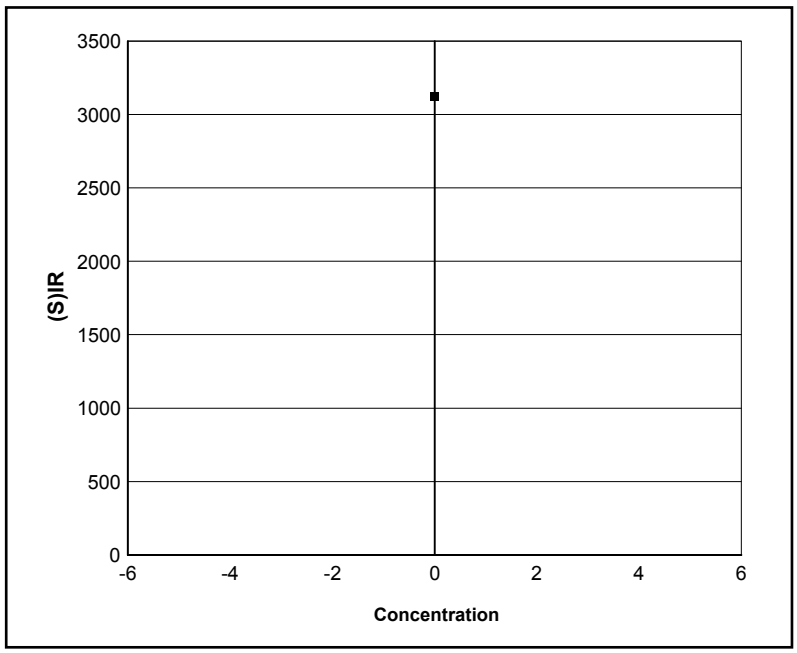
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000			0.0000	2,854	0.7918	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:11:19PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

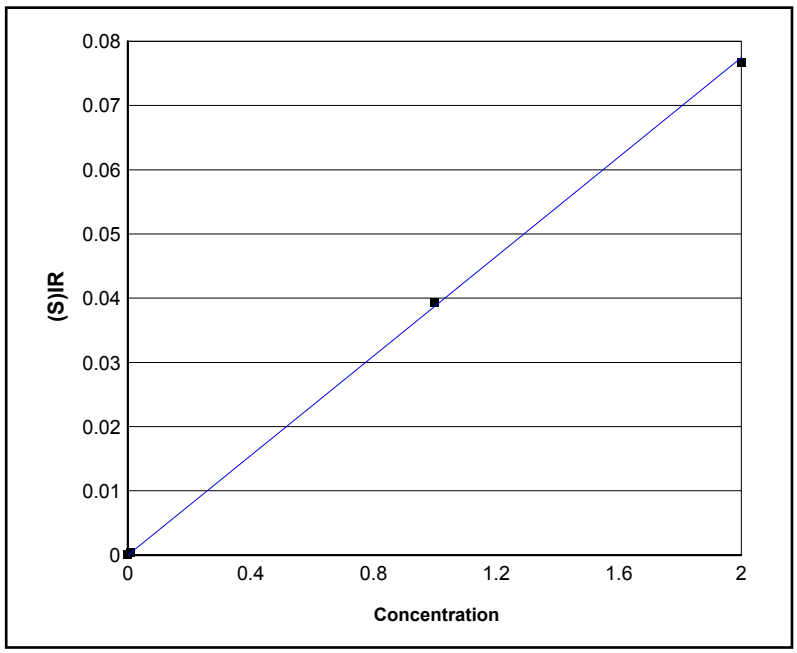
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000			0.0000	60,340	104.3	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:11:19PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

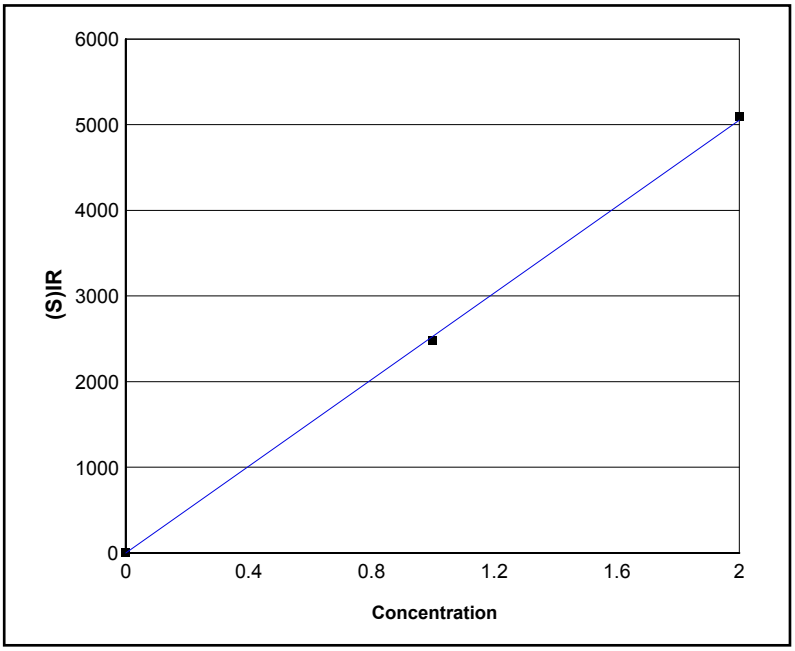
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000			0.0000	3,120	15.74	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.0000029216
A1 (Gain):	0.038738
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.00000	0.0000001297	-0.0000001297	0.00000	0.0000029166	0.0000088791	1
IC-6603764	0.010000	0.010042	0.000042197	0.42197	0.00039171	0.000022243	1
IC-6603765	1.0000	1.0175	0.017547	1.7547	0.039363	0.00029675	1
IC-6582679	2.0000	1.9824	-0.017589	-0.87945	0.076682	0.00025074	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	8/10/2021 12:22:31PM
Date of Fit:	8/10/2021 1:14:16PM
Type of Fit:	Linear
Correlation:	0.9999
A0 (Offset):	1.266
A1 (Gain):	2,526
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6597963	0.0000	0.000008055	0.000008055	0.0000	1.286	0.1157	1
IC-6603765	1.000	0.9839	-0.01611	-1.611	2,487	18.87	1
IC-6582679	2.000	2.016	0.01611	0.8055	5,094	10.97	1

Sample Name: ICIS-6597963 Acquired: 8/10/2021 12:07:28 Type: Cal
Method: ICAP1 New Stds (v890) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00022**	**.00035**	**.00021**	**.00347**	**.01290**	**.00274**	**.00044**
Stddev	.00005	.00053	.00010	.00013	.00014	.00039	.00174
%RSD	23.818	151.49	45.879	3.6163	1.1008	14.173	391.38
#1	-.00026	.00072	.00014	.00356	.01280	.00302	-.00079
#2	-.00018	-.00002	.00028	.00338	.01300	.00247	.00168

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01459**	**.00061**	**-.0009**	**-.00043**	**-.00002**	**-.00016**	**.00132**
Stddev	.00022	.00019	.0003	.00009	.00005	.00007	.00065
%RSD	1.5073	30.757	37.77	21.616	238.44	41.004	49.298
#1	.01475	.00048	-.0006	-.00036	.00001	-.00021	.00179
#2	.01444	.00074	-.0011	-.00049	-.00006	-.00012	.00086

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00045**	**.03323**	**-.00442**	**-.00004**	**.00134**	**.00122**	**.00805**
Stddev	.00043	.00140	.00687	.00002	.00021	.00004	.00060
%RSD	95.692	4.2034	155.65	49.250	15.592	3.4208	7.4754
#1	.00014	.03422	-.00928	-.00003	.00119	.00125	.00848
#2	.00075	.03224	.00044	-.00006	.00149	.00119	.00763

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01014**	**-.01340**	**.00030**	**2.247**	**-.00039**	**.0002**	**.00011**
Stddev	.00182	.00089	.00005	.591	.00048	.0001	.00045
%RSD	17.933	6.6468	17.983	26.30	122.19	65.53	409.95
#1	.00885	-.01403	.00026	2.665	-.00005	.0003	-.00021
#2	.01142	-.01277	.00034	1.829	-.00073	.0001	.00043

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00002**	**.00205**	**.00010**	**.00418**	**.6500**	**-.00031**	**.00001**
Stddev	.00005	.00082	.00000	.00064	2.083	.00008	.00000
%RSD	338.18	39.982	3.5627	15.374	320.4	23.828	33.641
#1	.00005	.00147	.00010	.00372	2.123	-.00037	.00000
#2	-.00002	.00263	.00010	.00463	-.8227	-.00026	.00001

Sample Name: ICIS-6597963 Acquired: 8/10/2021 12:07:28 Type: Cal
Method: ICAP1 New Stds (v890) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Zr3438
Units	Cts/S	Cts/S	Cts/S
Avg	**-.00024**	**.00000**	**1.286**
Stddev	.00009	.00001	.116
%RSD	38.324	304.43	8.995
#1	-.00018	-.00000	1.368
#2	-.00031	.00001	1.205

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3777.2**	**2854.0**	**60341.**	**3119.6**
Stddev	.2	.8	104.	15.7
%RSD	.00452	.02774	.17288	.50443
#1	3777.1	2854.6	60267.	3108.5
#2	3777.4	2853.4	60415.	3130.7

Sample Name: IC-6603764 Acquired: 8/10/2021 12:11:23 Type: Cal
Method: ICAP1 New Stds (v890) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00183	.00777	.00144	.01371	.03888	.03403	.02279
Stddev	.00017	.00066	.00021	.00012	.00229	.00031	.00055
%RSD	9.1371	8.5329	14.840	.90393	5.8846	.90233	2.4208
#1	.00171	.00824	.00129	.01380	.03726	.03382	.02240
#2	.00195	.00730	.00160	.01362	.04049	.03425	.02318

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16390	.00642	.00487	.00103	.00276	.00870	.00102
Stddev	.00029	.00043	.00019	.00004	.00001	.00043	.00167
%RSD	.17716	6.6820	3.9880	3.9403	.53790	4.9055	163.56
#1	.16411	.00611	.00474	.00100	.00275	.00900	-.00016
#2	.16370	.00672	.00501	.00106	.00277	.00840	.00220

Elem	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09858	.08326	.00521	.00378	.00653	.01398	.55481
Stddev	.00402	.00229	.00001	.00005	.00004	.00031	.00081
%RSD	4.0796	2.7559	.19849	1.3703	.58759	2.2002	.14673
#1	.10142	.08164	.00522	.00374	.00656	.01420	.55538
#2	.09573	.08488	.00521	.00382	.00651	.01376	.55423

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00366	.00988	.00242	.0067	.00379	.00211	.02491
Stddev	.00302	.00041	.00014	.0000	.00006	.00002	.00113
%RSD	82.525	4.1500	5.7646	.1138	1.5009	.76275	4.5259
#1	.00152	.00959	.00232	.0067	.00383	.00210	.02570
#2	.00579	.01017	.00252	.0067	.00375	.00212	.02411

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00168	.12481	.00208	.00259	.00171	.00039
Stddev	.00000	.00030	.00019	.00004	.00001	.00002
%RSD	.15355	.24334	9.2493	1.3812	.44218	5.6784
#1	.00168	.12459	.00222	.00262	.00171	.00038
#2	.00167	.12502	.00195	.00257	.00170	.00041

Sample Name: IC-6603764 Acquired: 8/10/2021 12:11:23 Type: Cal
Method: ICAP1 New Stds (v890) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3762.7	2859.9	60634.	3140.2
Stddev	2.5	5.6	82.	3.7
%RSD	.06573	.19619	.13513	.11832
#1	3760.9	2855.9	60692.	3137.6
#2	3764.4	2863.8	60576.	3142.8

Sample Name: IC-6603765 Acquired: 8/10/2021 12:15:17 Type: Cal
Method: ICAP1 New Stds (v890) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.35890**	**1.8479**	**.10066**	**.55394**	**13.694**	**14.833**	**11.506**
Stddev	.00154	.0013	.00004	.00027	.008	.082	.040
%RSD	.42775	.07190	.04145	.04787	.05636	.54989	.34421
#1	.35999	1.8469	.10063	.55412	13.700	14.890	11.534
#2	.35782	1.8488	.10069	.55375	13.689	14.775	11.478

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.037**	**2.6877**	**.0742**	**1.3361**	**.28073**	**.30638**	**7.7409**
Stddev	.059	.0031	.0012	.0001	.00096	.00012	.0185
%RSD	.39427	.11574	1.591	.00883	.34037	.03803	.23904
#1	15.079	2.6899	.0750	1.3362	.28141	.30630	7.7540
#2	14.995	2.6855	.0733	1.3360	.28006	.30646	7.7279

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.49061**	**6.9131**	**3.0416**	**1.3253**	**.88318**	**1.6397**	**1.0347**
Stddev	.00100	.0048	.0066	.0055	.00309	.0067	.0030
%RSD	.20394	.06962	.21698	.41750	.35002	.41143	.28948
#1	.49132	6.9165	3.0369	1.3292	.88536	1.6445	1.0325
#2	.48990	6.9096	3.0463	1.3214	.88099	1.6350	1.0368

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**27.046**	**.96136**	**.97381**	**.30966**	**.8544**	**.17084**	**.08430**
Stddev	.054	.00256	.00128	.00060	.0003	.00040	.00030
%RSD	.20063	.26670	.13175	.19413	.0383	.23149	.35279
#1	27.084	.96317	.97472	.31009	.8546	.17056	.08409
#2	27.007	.95955	.97290	.30924	.8541	.17112	.08451

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.47760**	**.18708**	**24.680**	**152.4**	**.52175**	**.13689**	**.41186**
Stddev	.00024	.00017	.004	1.2	.00100	.00022	.00085
%RSD	.04999	.09030	.01782	.7800	.19129	.15819	.20694
#1	.47777	.18720	24.684	151.6	.52245	.13704	.41246
#2	.47743	.18696	24.677	153.2	.52104	.13674	.41125

Sample Name: IC-6603765 Acquired: 8/10/2021 12:15:17 Type: Cal
Method: ICAP1 New Stds (v890) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3438
Units	Cts/S	Cts/S
Avg	.03936	2487.
Stddev	.00030	19.
%RSD	.75388	.7587
#1	.03957	2473.
#2	.03915	2500.

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3240.8	2754.0	56566.	3105.5
Stddev	2.9	.3	327.	15.6
%RSD	.08896	.01214	.57853	.50263
#1	3238.8	2753.7	56334.	3094.5
#2	3242.9	2754.2	56797.	3116.5

Sample Name: IC-6582679 Acquired: 8/10/2021 12:18:55 Type: Cal
Method: ICAP1 New Stds (v890) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.72469	3.6636	.19958	1.0761	27.263	28.835	22.751
Stddev	.00037	.0058	.00002	.0004	.004	.030	.071
%RSD	.05156	.15724	.00916	.03540	.01340	.10387	.30999
#1	.72496	3.6676	.19959	1.0758	27.260	28.814	22.801
#2	.72443	3.6595	.19957	1.0763	27.265	28.856	22.701

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	29.652	5.3447	.1580	2.6830	.55298	.61471	15.138
Stddev	.122	.0009	.0010	.0002	.00096	.00118	.021
%RSD	.41063	.01673	.6256	.00614	.17316	.19206	.13771
#1	29.738	5.3454	.1587	2.6829	.55230	.61555	15.153
#2	29.566	5.3441	.1573	2.6831	.55366	.61388	15.123

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.96322	13.503	6.1087	2.6569	1.7524	3.2317	1.9999
Stddev	.00120	.027	.0017	.0062	.0034	.0019	.0112
%RSD	.12509	.19891	.02723	.23228	.19664	.06008	.55799
#1	.96407	13.522	6.1098	2.6526	1.7548	3.2303	1.9920
#2	.96237	13.485	6.1075	2.6613	1.7500	3.2331	2.0078

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	52.656	1.9144	1.9493	.61947	1.697	.34143	.16907
Stddev	.068	.0019	.0006	.00098	.002	.00109	.00020
%RSD	.12940	.09661	.02867	.15886	.1430	.31902	.12010
#1	52.704	1.9131	1.9489	.61877	1.695	.34066	.16921
#2	52.608	1.9157	1.9497	.62017	1.698	.34220	.16893

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.93922	.37573	49.284	302.6	1.0385	.27130	.81400
Stddev	.00137	.00057	.041	1.6	.0011	.00020	.00075
%RSD	.14608	.15179	.08291	.5351	.10985	.07245	.09233
#1	.93825	.37532	49.313	301.5	1.0377	.27144	.81347
#2	.94019	.37613	49.255	303.8	1.0394	.27116	.81453

Sample Name: IC-6582679 Acquired: 8/10/2021 12:18:55 Type: Cal
Method: ICAP1 New Stds (v890) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3438
Units	Cts/S	Cts/S
Avg	.07668	5094.
Stddev	.00025	11.
%RSD	.32699	.2153
#1	.07650	5102.
#2	.07686	5086.

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3053.9	2703.4	54743.	3065.0
Stddev	.5	.9	105.	5.9
%RSD	.01769	.03328	.19250	.19107
#1	3053.5	2704.1	54668.	3060.9
#2	3054.2	2702.8	54817.	3069.2

Sample Name: ICV-6595745 Acquired: 8/10/2021 12:22:31 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.74445**	**36.663**	**.74657**	**.72869**	**.74158**	**.74194**	**37.103**
Stddev	.00135	.041	.00248	.00134	.00296	.00303	.015
%RSD	.18134	.11069	.33239	.18366	.39895	.40810	.03983
#1	.74350	36.691	.74482	.72775	.74367	.74408	37.114
#2	.74541	36.634	.74833	.72964	.73949	.73980	37.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.74277**	**-.0271**	**.73483**	**.75635**	**.71877**	**37.568**	**36.877**
Stddev	.00073	.0081	.00044	.00026	.00023	.052	.077
%RSD	.09880	30.01	.05941	.03411	.03182	.13892	.20875
#1	.74225	-.0328	.73452	.75617	.71893	37.605	36.931
#2	.74329	-.0213	.73514	.75653	.71861	37.531	36.822
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.72162**	**36.647**	**.75694**	W **.79047**	**37.680**	**.73546**	z *****
Stddev	.00519	.041	.00010	.00180	.124	.00030	-----
%RSD	.71905	.11195	.01379	.22834	.32906	.04064	-----
#1	.72529	36.618	.75687	.78919	37.768	.73525	z 6884.
#2	.71796	36.676	.75702	.79174	37.593	.73567	z 6893.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None
Value				.75000			
Range				5.0000%			

Sample Name: ICV-6595745 Acquired: 8/10/2021 12:22:31 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.74372**	**18.64**	W **.79163**	**.74294**	**7.5970**	**.72352**	**.73919**
Stddev	.00145	.02	.00285	.00231	.0309	.00217	.00244
%RSD	.19468	.1189	.35952	.31115	.40712	.29955	.32977
#1	.74475	18.63	.78962	.74130	7.5752	.72198	.74091
#2	.74270	18.66	.79365	.74457	7.6189	.72505	.73746
Check ?	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value			.75000				
Range			5.0000%				

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1231**	**.73966**	**.75295**	**.74383**	**.74634**	**.0754**
Stddev	.0018	.00044	.00011	.00083	.00276	.0025
%RSD	1.438	.06004	.01455	.11154	.36984	3.313
#1	.1219	.73935	.75287	.74325	.74829	.0772
#2	.1244	.73998	.75303	.74442	.74439	.0737
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3310.9**	**2775.2**	**57111.**	**3125.0**
Stddev	4.9	.0	40.	8.9
%RSD	.14673	.00128	.06994	.28478
#1	3307.5	2775.2	57139.	3131.3
#2	3314.4	2775.2	57083.	3118.7

Sample Name: ICB-6597963 Acquired: 8/10/2021 12:26:10 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**-.00224**	**.00152**	**.00052**	**.00017**	**-.00001**	**-.00093**	**-.00011**
Stddev	.00012	.04590	.00035	.00052	.00000	.00009	.00084	.00005
%RSD	123.24	2051.7	23.281	99.691	1.4667	623.76	90.551	44.563
#1	-.00018	-.03469	.00177	.00088	.00017	-.00008	-.00033	-.00015
#2	-.00001	.03022	.00127	.00015	.00017	.00005	-.00152	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0092**	**.00019**	**.00032**	**.00008**	**.00546**	**.00071**	**.00024**	**.00146**
Stddev	.0065	.00004	.00004	.00005	.00188	.00397	.00074	.00109
%RSD	70.44	21.326	11.950	70.177	34.464	557.95	306.94	74.663
#1	-.0138	.00022	.00034	.00004	.00679	-.00209	.00077	.00069
#2	-.0046	.00016	.00029	.00011	.00413	.00352	-.00028	.00223
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00002**	**.00408**	**.00937**	**-.00036**	z *****	**.00069**	**.0025**	**-.00150**
Stddev	.00002	.00132	.00243	.00014	-----	.00089	.0005	.00049
%RSD	82.480	32.358	25.905	39.753	-----	129.24	22.32	32.714
#1	.00001	.00501	.00766	-.00046	z 138.4	.00132	.0021	-.00185
#2	.00004	.00314	.01109	-.00026	z 137.8	.00006	.0028	-.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB-6597963 Acquired: 8/10/2021 12:26:10 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00288**	**.01014**	**-.00004**	**.00001**	**.0012**	**.00019**	**-.00056**	**.00008**
Stddev	.00075	.01913	.00033	.00005	.0125	.00019	.00068	.00036
%RSD	26.160	188.64	892.79	682.11	1019.	97.653	120.54	448.00
#1	.00235	-.00339	-.00027	-.00003	-.0076	.00032	-.00008	-.00017
#2	.00342	.02367	.00019	.00005	.0101	.00006	-.00105	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00012**	**-.0003**
Stddev	.00001	.0007
%RSD	5.5016	252.2
#1	.00011	-.0008
#2	.00012	.0002
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3784.6**	**2854.6**	**60164.**	**3119.4**
Stddev	7.8	6.9	184.	5.1
%RSD	.20640	.24129	.30543	.16295
#1	3779.1	2849.7	60294.	3115.8
#2	3790.1	2859.5	60034.	3123.0

Sample Name: ICVL-6603764 Acquired: 8/10/2021 12:30:01 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00575**	**.20800**	**.01416**	**.01884**	**.00217**	**.00202**	**.50102**
Stddev	.00021	.00006	.00030	.00035	.00000	.00001	.00510
%RSD	3.6453	.03068	2.0961	1.8363	.20849	.49128	1.0184
#1	.00590	.20804	.01395	.01859	.00217	.00202	.50463
#2	.00560	.20795	.01437	.01908	.00217	.00201	.49741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	**.0116**	**.00398**	**.00413**	**.00936**	**.05105**	**.44135**
Stddev	.00001	.0033	.00004	.00010	.00020	.00074	.00179
%RSD	.28675	28.36	1.0812	2.4849	2.0962	1.4434	.40545
#1	.00194	.0140	.00401	.00420	.00950	.05053	.44009
#2	.00193	.0093	.00395	.00406	.00922	.05157	.44262
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02888**	**.20427**	**.00328**	W **.00645**	**1.0246**	**.00971**	z *****
Stddev	.00063	.00129	.00002	.00004	.0004	.00010	-----
%RSD	2.1650	.63369	.66379	.69632	.03789	1.0484	-----
#1	.02843	.20335	.00326	.00648	1.0249	.00978	z 138.1
#2	.02932	.20518	.00329	.00642	1.0244	.00964	z 138.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None
Value				.01000			
Range				-30.000%			

Sample Name: ICVL-6603764 Acquired: 8/10/2021 12:30:01 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00956**	**.1901**	**.01955**	**.02576**	**.47941**	**.00909**	**.00489**
Stddev	.00060	.0033	.00094	.00014	.00823	.00028	.00003
%RSD	6.3182	1.753	4.8063	.52503	1.7175	3.1160	.64660
#1	.00913	.1924	.01888	.02566	.48523	.00929	.00491
#2	.00998	.1877	.02021	.02585	.47359	.00889	.00487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0057**	**.00462**	**.01920**	**.00474**	**.00940**	**.0010**
Stddev	.0043	.00002	.00048	.00003	.00033	.0021
%RSD	76.35	.40998	2.4910	.55915	3.4666	214.5
#1	.0087	.00464	.01887	.00476	.00963	-.0005
#2	.0026	.00461	.01954	.00473	.00916	.0025
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3767.5**	**2867.8**	**60195.**	**3127.3**
Stddev	2.8	.8	265.	4.1
%RSD	.07321	.02661	.43989	.13227
#1	3769.4	2868.4	60383.	3124.3
#2	3765.5	2867.3	60008.	3130.2

Sample Name: ICSA-6591058 Acquired: 8/10/2021 12:33:52 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00073**	**497.36**	**-.00112**	**-.00142**	**.01377**	**-.00006**	**466.86**
Stddev	.00050	.99	.00046	.00089	.00001	.00004	4.53
%RSD	68.128	.19849	40.940	62.650	.05195	62.805	.97051
#1	-.00038	496.66	-.00144	-.00079	.01376	-.00008	463.66
#2	-.00108	498.05	-.00079	-.00205	.01377	-.00003	470.06
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.0560**	**-.00022**	**-.00144**	**-.00001**	**187.36**	**.42213**
Stddev	.00023	.0033	.00007	.00000	.00031	.56	.01956
%RSD	30.226	5.904	30.527	.14785	3411.6	.29751	4.6342
#1	.00059	.0536	-.00017	-.00144	-.00023	186.97	.40830
#2	.00092	.0583	-.00026	-.00144	.00021	187.75	.43596
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.00578**	**504.96**	**-.00048**	**-.00684**	**.05045**	**.00206**	z *****
Stddev	.00088	2.10	.00006	.00018	.00640	.00007	-----
%RSD	15.156	.41530	11.835	2.6971	12.688	3.6175	-----
#1	.00640	503.47	-.00044	-.00697	.05498	.00211	z 581.4
#2	.00516	506.44	-.00052	-.00671	.04593	.00201	z 582.2
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Sample Name: ICSA-6591058 Acquired: 8/10/2021 12:33:52 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00005	W -.3469	-.00026	-.00002	-.02191	-.00134	.01305
Stddev	.00035	.0084	.00040	.00716	.00723	.00041	.00011
%RSD	678.80	2.434	157.57	30938.	32.986	30.583	.83393
#1	-.00020	-.3409	.00003	.00504	-.01680	-.00163	.01312
#2	.00030	-.3528	-.00054	-.00509	-.02702	-.00105	.01297
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit		.2000					
Low Limit		-.2000					

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1564	.00185	.00065	-.00137	.00318	.0052
Stddev	.0047	.00010	.00401	.00005	.00039	.0012
%RSD	3.031	5.5107	617.23	3.6138	12.400	22.97
#1	.1530	.00192	-.00219	-.00140	.00290	.0060
#2	.1597	.00178	.00349	-.00133	.00346	.0044
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2767.9	2508.9	51118.	3029.9
Stddev	6.1	2.9	210.	23.5
%RSD	.22009	.11402	.41115	.77431
#1	2763.6	2506.9	51267.	3046.5
#2	2772.2	2510.9	50970.	3013.3

Sample Name: ICSAB-6588769 Acquired: 8/10/2021 12:37:48 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.53024**	**501.60**	**.50505**	**4.7521**	**.52582**	**.24717**	**467.31**	**.52403**
Stddev	.00108	1.60	.00448	.0060	.00178	.00072	1.21	.00034
%RSD	.20369	.31958	.88704	.12683	.33930	.29211	.25920	.06509
#1	.53100	502.73	.50822	4.7479	.52456	.24768	468.16	.52379
#2	.52948	500.46	.50188	4.7564	.52708	.24666	466.45	.52427
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0388**	**.50388**	**.48841**	**.51759**	**189.42**	**5.3227**	**.00582**	**506.93**
Stddev	.0003	.00189	.00186	.00106	.14	.0167	.00089	1.55
%RSD	.7518	.37515	.38166	.20528	.07335	.31324	15.241	.30559
#1	.0386	.50255	.48973	.51834	189.52	5.3344	.00519	508.02
#2	.0390	.50522	.48710	.51684	189.32	5.3109	.00644	505.83
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.48563**	**.49351**	**5.3489**	**.49601**	z *****	**.50206**	**-.3907**	**.51561**
Stddev	.00063	.00303	.0052	.00034	-----	.00256	.0027	.00520
%RSD	.12908	.61423	.09798	.06890	-----	.50899	.6944	1.0091
#1	.48608	.49137	5.3526	.49577	z 2193.	.50025	-.3926	.51929
#2	.48519	.49565	5.3452	.49625	z 2197.	.50387	-.3888	.51193
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: ICSAB-6588769 Acquired: 8/10/2021 12:37:48 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.48978	4.8523	.49539	.50508	.1225	.49683	.49245	.49037
Stddev	.00813	.0363	.00013	.00075	.0054	.00171	.00501	.00120
%RSD	1.6607	.74823	.02656	.14861	4.395	.34516	1.0176	.24503
#1	.48403	4.8779	.49548	.50561	.1263	.49804	.48890	.48952
#2	.49554	4.8266	.49530	.50455	.1187	.49562	.49599	.49122
Check ?	Chk Pass	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.45658	.0075
Stddev	.00214	.0016
%RSD	.46840	21.71
#1	.45809	.0087
#2	.45507	.0064
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2750.1	2502.6	51126.	3027.1
Stddev	4.3	1.0	13.	11.3
%RSD	.15528	.04105	.02521	.37192
#1	2753.1	2503.4	51117.	3019.2
#2	2747.1	2501.9	51135.	3035.1

Sample Name: ICEX1 Acquired: 8/10/2021 12:41:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**-.06756**	**5.0964**	**.00316**	**.00004**
Stddev	.00022	.01166	.0062	.00030	.00001
%RSD	28.689	17.254	.12091	9.3976	17.983
#1	.00091	-.05932	5.0921	.00337	.00003
#2	.00060	-.07580	5.1008	.00295	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.02655**	**.00027**	**.0327**	**.00037**
Stddev	.00003	.00074	.00001	.0168	.00001
%RSD	4.9911	2.8043	4.2640	51.36	2.2755
#1	.00051	.02602	.00027	.0445	.00037
#2	.00054	.02708	.00026	.0208	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**24.551**	**.01759**	**-.09037**	**-.00133**
Stddev	.00026	.085	.00175	.00643	.00010
%RSD	33.022	.34420	9.9502	7.1147	7.2992
#1	.00095	24.611	.01882	-.09492	-.00126
#2	.00059	24.491	.01635	-.08582	-.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/10/2021 12:41:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00837**	**.00033**	**-.00483**	**.01271**	**.00015**
Stddev	.00002	.00002	.00040	.00017	.00002
%RSD	.21094	4.6341	8.3617	1.3398	15.070
#1	.00838	.00034	-.00454	.01259	.00013
#2	.00835	.00032	-.00512	.01283	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**-.00101**	**-.0036**	**.00095**	**.00356**
Stddev	-----	.00035	.0019	.00087	.00144
%RSD	-----	34.202	53.21	92.037	40.520
#1	^ -----	-.00077	-.0049	.00033	.00254
#2	^ -----	-.00126	-.0022	.00156	.00458
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00701**	**.00040**	**-.00002**	**.0004**	**.00044**
Stddev	.00974	.00012	.00003	.0231	.00029
%RSD	139.03	31.145	150.99	5507.	64.313
#1	.00012	.00031	.00000	.0167	.00065
#2	.01390	.00049	-.00004	-.0159	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/10/2021 12:41:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00461**	**4.9203**	**.00245**	**-.0017**
Stddev	.00036	.0045	.00016	.0017
%RSD	7.7359	.09039	6.7111	101.6
#1	.00487	4.9234	.00256	-.0005
#2	.00436	4.9172	.00233	-.0029
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3749.3**	**2858.1**	**60732.**	**3172.1**
Stddev	.2	.8	12.	17.0
%RSD	.00434	.02954	.01995	.53742
#1	3749.1	2858.7	60723.	3160.1
#2	3749.4	2857.5	60740.	3184.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.259%	100.14%	100.65%	101.68%
Range				

Sample Name: ICEX2 Acquired: 8/10/2021 12:45:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.01508**	**.00843**	**.00337**	**.00015**
Stddev	.00007	.00147	.00035	.00008	.00000
%RSD	109.46	9.7563	4.1069	2.4144	3.2744
#1	-.00001	.01404	.00818	.00342	.00015
#2	-.00011	.01612	.00867	.00331	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.01841**	**.00016**	**-.0135**	**-.00002**
Stddev	.00006	.00213	.00004	.0031	.00025
%RSD	234.04	11.565	23.182	23.16	1372.4
#1	.00007	.01690	.00013	-.0113	-.00019
#2	-.00002	.01991	.00019	-.0157	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00061**	**-.00185**	**.00039**	**-.08607**	**9.5180**
Stddev	.00006	.00015	.00017	.00769	.0102
%RSD	9.4443	8.2436	43.274	8.9343	.10760
#1	.00057	-.00175	.00027	-.08063	9.5107
#2	.00065	-.00196	.00050	-.09151	9.5252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/10/2021 12:45:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02831**	**.00018**	**-.00536**	**-.00270**	**.00393**
Stddev	.00508	.00000	.00031	.00056	.00001
%RSD	17.937	1.0148	5.7200	20.600	.30596
#1	-.03191	.00018	-.00514	-.00310	.00392
#2	-.02472	.00018	-.00557	-.00231	.00394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00107**	**-.0531**	**.00414**	**.00380**
Stddev	-----	.00015	.0060	.00059	.00113
%RSD	-----	14.117	11.27	14.344	29.731
#1	z 151.9	.00118	-.0489	.00456	.00460
#2	z 152.6	.00097	-.0573	.00372	.00300
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.719**	**-.00127**	**-.00000**	**.0216**	**20.175**
Stddev	.428	.00001	.00004	.0164	.150
%RSD	.89737	1.0673	24946.	76.09	.74311
#1	47.416	-.00128	-.00003	.0332	20.281
#2	48.022	-.00126	.00003	.0100	20.069
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/10/2021 12:45:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**20.142**	**-.00223**	**.00176**	**.1445**
Stddev	.019	.00044	.00008	.0170
%RSD	.09326	19.679	4.3491	11.74
#1	20.129	-.00255	.00171	.1565
#2	20.155	-.00192	.00182	.1325
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3524.1**	**2813.2**	**58771.**	**3137.5**
Stddev	1.1	.6	20.	9.5
%RSD	.03156	.02095	.03361	.30211
#1	3523.3	2812.8	58757.	3144.2
#2	3524.8	2813.6	58785.	3130.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.297%	98.570%	97.398%	100.57%
Range				

Sample Name: ICEX3 Acquired: 8/10/2021 12:49:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00419**	**.04339**	**.00156**	**.00098**	**.00002**
Stddev	.00021	.00096	.00252	.00044	.00000
%RSD	5.0548	2.2197	161.60	44.622	2.3029
#1	.00404	.04271	.00334	.00129	.00002
#2	.00433	.04407	-.00022	.00067	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01236**	**.00002**	**.0121**	**.00039**
Stddev	.00002	.00242	.00001	.0140	.00019
%RSD	35.250	19.543	40.966	116.5	48.649
#1	-.00005	.01407	.00003	.0021	.00053
#2	-.00009	.01065	.00002	.0220	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**.00060**	**.00618**	**-.11029**	**.00247**
Stddev	.00003	.00017	.00146	.01098	.00115
%RSD	2.5991	27.836	23.611	9.9551	46.443
#1	.00098	.00048	.00515	-.10253	.00166
#2	.00101	.00072	.00722	-.11806	.00328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/10/2021 12:49:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.02801**	**53.299**	F **-.01006**	**-.00107**	**.00063**
Stddev	.00172	.134	.00027	.00772	.00014
%RSD	6.1575	.25056	2.6606	720.63	22.252
#1	-.02679	53.393	-.01025	.00439	.00053
#2	-.02923	53.204	-.00987	-.00653	.00073
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.01000		
Low Limit			-.01000		

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00525**	**97.29**	**-.00449**	**.00929**
Stddev	-----	.00018	.14	.00004	.00038
%RSD	-----	3.3662	.1479	.91445	4.0568
#1	z 148.4	.00512	97.40	-.00446	.00956
#2	z 148.5	.00537	97.19	-.00452	.00902
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03008**	**-.00029**	**.00005**	**-.0200**	**-.00084**
Stddev	.02473	.00037	.00004	.0066	.00009
%RSD	82.218	128.69	85.105	32.89	10.654
#1	.01259	-.00003	.00008	-.0153	-.00090
#2	.04757	-.00055	.00002	-.0246	-.00078
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/10/2021 12:49:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.01082**	**.00032**	**.00375**	**-.0038**
Stddev	.00061	.00018	.00044	.0004
%RSD	5.6279	57.489	11.704	9.692
#1	-.01039	.00019	.00406	-.0041
#2	-.01125	.00045	.00344	-.0036
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3733.0**	**2857.5**	**59962.**	**3171.0**
Stddev	.7	4.6	1.	3.2
%RSD	.01899	.16032	.00247	.10017
#1	3732.5	2854.3	59961.	3168.7
#2	3733.5	2860.8	59963.	3173.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.829%	100.12%	99.371%	101.65%
Range				

Sample Name: ICEX4 Acquired: 8/10/2021 12:53:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**-.01318**	**.00017**	**-.00035**	**.00000**
Stddev	.00034	.00209	.00182	.00037	.00001
%RSD	465.21	15.823	1073.5	105.76	256.74
#1	-.00017	-.01466	-.00112	-.00009	-.00000
#2	.00032	-.01171	.00146	-.00061	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.01104**	**-.00160**	**.0058**	**18.954**
Stddev	.00001	.00716	.00015	.0159	.027
%RSD	14.084	64.876	9.6689	274.1	.13997
#1	-.00007	.00597	-.00149	.0170	18.935
#2	-.00009	.01610	-.00171	-.0054	18.973
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.120**	**.00529**	**-.00170**	**-.07877**	**-.00009**
Stddev	.005	.00022	.00390	.00417	.00013
%RSD	.05148	4.1131	229.76	5.2970	137.65
#1	10.117	.00514	-.00445	-.08172	-.00019
#2	10.124	.00545	.00106	-.07582	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/10/2021 12:53:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00132**	**.00044**	**-.00683**	**.00563**	**9.8750**
Stddev	.00415	.00000	.00006	.00528	.0119
%RSD	313.81	.41388	.93879	93.871	.12081
#1	-.00426	.00044	-.00679	.00189	9.8665
#2	.00161	.00044	-.00688	.00936	9.8834
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00168**	**-.0805**	**.00298**	**-.00047**
Stddev	-----	.00072	.0040	.00258	.00214
%RSD	-----	42.963	5.001	86.639	457.13
#1	z 144.1	-.00219	-.0834	.00481	.00104
#2	z 143.7	-.00117	-.0777	.00116	-.00198
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.11287**	**-.00056**	**.00002**	**.0136**	**.00348**
Stddev	.00599	.00018	.00000	.0001	.00017
%RSD	5.3042	32.038	5.1760	1.094	4.9562
#1	-.10863	-.00069	.00002	.0135	.00335
#2	-.11710	-.00043	.00002	.0137	.00360
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/10/2021 12:53:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00164**	**-.00014**	**.00071**	**-.0026**
Stddev	.00126	.00016	.00041	.0003
%RSD	76.890	118.85	57.282	10.97
#1	.00253	-.00025	.00042	-.0028
#2	.00075	-.00002	.00099	-.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3722.7**	**2833.1**	**60494.**	**3171.1**
Stddev	3.5	2.5	9.	9.5
%RSD	.09445	.08879	.01461	.29874
#1	3725.2	2834.9	60501.	3177.8
#2	3720.3	2831.4	60488.	3164.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.557%	99.269%	100.25%	101.65%
Range				

Sample Name: ICEX5 Acquired: 8/10/2021 12:57:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.13095**	**.00174**	**-.01617**	**-.00008**
Stddev	.00007	.01062	.00242	.00035	.00000
%RSD	15.230	8.1102	139.31	2.1806	5.9640
#1	.00043	.12344	.00003	-.01592	-.00008
#2	.00054	.13846	.00345	-.01642	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00027**	**.00555**	**-.00004**	**-.0170**	**-.00002**
Stddev	.00004	.00234	.00001	.0004	.00007
%RSD	15.820	42.194	31.910	2.135	469.03
#1	-.00030	.00389	-.00003	-.0173	.00004
#2	-.00024	.00721	-.00005	-.0168	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00148**	**-.00408**	**-.09687**	**-.00052**
Stddev	.00014	.00040	.00186	.01030	.00012
%RSD	56.449	26.924	45.648	10.635	22.761
#1	-.00015	-.00120	-.00276	-.10415	-.00044
#2	-.00035	-.00176	-.00539	-.08958	-.00060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/10/2021 12:57:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05658**	**.00059**	**5.2834**	**.01443**	**-.00005**
Stddev	.00043	.00008	.0385	.00102	.00001
%RSD	.75333	13.472	.72807	7.0986	25.721
#1	-.05628	.00065	5.2562	.01371	-.00004
#2	-.05689	.00054	5.3106	.01516	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00091**	**-.0382**	**.00178**	**-.00237**
Stddev	-----	.00033	.0067	.00133	.00070
%RSD	-----	35.874	17.48	74.893	29.536
#1	z 139.9	.00068	-.0430	.00084	-.00286
#2	z 140.4	.00114	-.0335	.00272	-.00187
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02179**	**-.00006**	**.00003**	**-.0155**	**.00043**
Stddev	.00431	.00006	.00000	.0015	.00004
%RSD	19.773	102.31	4.4299	9.445	9.1025
#1	.02484	-.00011	.00003	-.0166	.00040
#2	.01874	-.00002	.00004	-.0145	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/10/2021 12:57:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00057**	**.00024**	**-.0006**
Stddev	.00003	.00041	.00010	.0010
%RSD	26.230	72.813	40.252	156.4
#1	-.00009	.00027	.00017	-.0013
#2	-.00014	.00086	.00031	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3747.5**	**2866.4**	**60944.**	**3201.5**
Stddev	6.4	2.8	99.	15.4
%RSD	.16977	.09727	.16204	.47958
#1	3752.0	2868.3	61014.	3212.4
#2	3743.0	2864.4	60874.	3190.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.212%	100.43%	101.00%	102.63%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 13:01:07 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97312**	**49.367**	**.98823**	**.99827**	**.99194**	**.99260**	**49.654**	**.98402**
Stddev	.00151	.002	.00152	.00083	.00026	.00149	.141	.00053
%RSD	.15560	.00448	.15348	.08278	.02606	.15039	.28452	.05427
#1	.97419	49.366	.98716	.99885	.99212	.99155	49.554	.98440
#2	.97205	49.369	.98931	.99768	.99175	.99366	49.754	.98365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9820**	**.98673**	**.99034**	**.98401**	**49.809**	**49.943**	**.97272**	**48.699**
Stddev	.0036	.00069	.00225	.00206	.130	.018	.00349	.093
%RSD	.3706	.06973	.22719	.20968	.26065	.03675	.35848	.19192
#1	.9845	.98722	.99193	.98547	49.717	49.930	.97025	48.765
#2	.9794	.98624	.98875	.98255	49.901	49.956	.97518	48.633
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.98991**	**1.0808**	**49.948**	**.98431**	z *****	**.98310**	**24.74**	**.98811**
Stddev	.00196	.0081	.052	.00013	-----	.00088	.00	.00133
%RSD	.19785	.75212	.10506	.01317	-----	.08946	.0073	.13444
#1	.99129	1.0866	49.911	.98422	z 9021.	.98372	24.74	.98717
#2	.98852	1.0751	49.985	.98440	z 9031.	.98248	24.73	.98905
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 13:01:07 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98014	9.9082	.98389	.98345	.9635	.99027	.99209	.99162
Stddev	.00599	.0741	.00006	.00106	.0063	.00013	.00086	.00065
%RSD	.61108	.74746	.00602	.10764	.6575	.01363	.08718	.06547
#1	.98437	9.8558	.98384	.98271	.9590	.99037	.99148	.99208
#2	.97590	9.9606	.98393	.98420	.9680	.99018	.99270	.99116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99929	.8863
Stddev	.00299	.0002
%RSD	.29884	.0184
#1	1.0014	.8862
#2	.99718	.8864
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3242.4	2758.6	56513.	3102.8
Stddev	3.6	4.1	61.	22.8
%RSD	.11205	.14880	.10844	.73630
#1	3239.8	2755.7	56556.	3118.9
#2	3245.0	2761.5	56469.	3086.6

Sample Name: CCB-6597963 Acquired: 8/10/2021 13:04:45 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.02511**	**.00188**	**-.00027**	**.00010**	**-.00005**	**-.00671**
Stddev	.00036	.00817	.00129	.00024	.00001	.00000	.00062
%RSD	176.36	32.538	68.675	90.367	4.9920	7.4123	9.2253
#1	-.00046	.01933	.00097	-.00010	.00011	-.00005	-.00627
#2	.00005	.03088	.00279	-.00044	.00010	-.00004	-.00715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**-.0151**	**.00016**	**.00016**	**-.00005**	**.00290**	**-.05168**
Stddev	.00004	.0235	.00005	.00000	.00015	.00126	.01243
%RSD	28.753	155.3	29.507	1.6609	299.82	43.481	24.058
#1	-.00017	-.0317	.00013	.00016	.00005	.00379	-.06047
#2	-.00012	.0015	.00020	.00016	-.00015	.00201	-.04289
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**-.00076**	**.00365**	**.00006**	F **.01754**	**.00192**	**.00004**	z *****
Stddev	.00082	.00073	.00003	.00412	.00299	.00004	-----
%RSD	107.25	19.886	46.239	23.496	155.81	94.324	-----
#1	-.00018	.00313	.00008	.02046	-.00019	.00007	z 137.7
#2	-.00134	.00416	.00004	.01463	.00403	.00001	z 137.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
High Limit				.01000			
Low Limit				-.01000			

Sample Name: CCB-6597963 Acquired: 8/10/2021 13:04:45 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.0040**	**.00038**	**.00372**	**.01122**	**.00050**	**.00000**
Stddev	.00027	.0019	.00083	.00072	.00287	.00037	.00004
%RSD	149.35	48.74	218.31	19.441	25.611	74.154	3477.0
#1	.00038	.0026	-.00021	.00423	.00919	.00024	.00003
#2	-.00001	.0053	.00097	.00321	.01326	.00077	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.00052**	**-.00000**	**-.00029**	**.00033**	**.0005**
Stddev	.0023	.00036	.00090	.00001	.00027	.0003
%RSD	801.1	68.668	23628.	5.0408	82.299	63.47
#1	-.0013	.00077	.00063	-.00028	.00014	.0007
#2	.0019	.00027	-.00064	-.00030	.00052	.0003
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3775.0**	**2871.5**	**60808.**	**3171.4**
Stddev	3.9	.1	115.	15.6
%RSD	.10308	.00348	.18919	.49118
#1	3777.8	2871.5	60727.	3182.4
#2	3772.3	2871.6	60890.	3160.4

Sample Name: CCVL-6603764 Acquired: 8/10/2021 13:15:28 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00563**	**.21741**	**.01554**	**.01738**	**.00217**	**.00190**	**.49115**
Stddev	.00013	.00459	.00165	.00042	.00001	.00007	.00485
%RSD	2.3021	2.1121	10.606	2.3928	.43246	3.6782	.98750
#1	.00554	.21416	.01671	.01708	.00216	.00185	.49458
#2	.00573	.22066	.01438	.01767	.00218	.00195	.48772
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**-.0280**	**.00421**	**.00422**	**.00957**	**.04820**	**.39965**
Stddev	.00004	.0326	.00010	.00027	.00012	.00024	.00203
%RSD	2.2669	116.5	2.2705	6.2919	1.2581	.48953	.50742
#1	.00186	-.0049	.00415	.00440	.00965	.04837	.40108
#2	.00180	-.0510	.00428	.00403	.00948	.04803	.39822
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02809**	**.19553**	**.00323**	W **.00539**	**1.0198**	**.00950**	z *****
Stddev	.00022	.00356	.00000	.00011	.0019	.00016	-----
%RSD	.79243	1.8208	.11509	2.0164	.18344	1.6470	-----
#1	.02824	.19804	.00322	.00531	1.0185	.00961	z 136.5
#2	.02793	.19301	.00323	.00546	1.0212	.00939	z 137.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None
Value				.01000			
Range				-30.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 13:15:28 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00998**	**.1903**	**.01966**	**.02456**	**.45498**	**.00859**	**.00483**
Stddev	.00031	.0013	.00113	.00154	.00628	.00038	.00008
%RSD	3.1546	.6915	5.7608	6.2506	1.3799	4.3730	1.6775
#1	.01020	.1893	.01886	.02565	.45942	.00833	.00489
#2	.00975	.1912	.02046	.02348	.45054	.00886	.00477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.00477**	**.01862**	**.00488**	**.01011**	**.0003**
Stddev	.0113	.00010	.00009	.00001	.00025	.0002
%RSD	1090.	2.1218	.49102	.21751	2.5096	72.99
#1	-.0069	.00470	.01856	.00487	.01029	.0002
#2	.0090	.00484	.01869	.00488	.00993	.0005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3762.4**	**2895.7**	**60624.**	**3160.1**
Stddev	1.6	.6	71.	21.3
%RSD	.04129	.02198	.11776	.67286
#1	3761.3	2895.2	60574.	3145.1
#2	3763.5	2896.1	60675.	3175.1

Sample Name: MB 480-592076/1-A Acquired: 8/10/2021 13:19:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.05325**	**-.00071**	**.00300**	**.00007**
Stddev	.00056	.00907	.00008	.00025	.00000
%RSD	676.58	17.034	11.127	8.4828	4.0813
#1	.00031	.04684	-.00065	.00282	.00007
#2	-.00047	.05967	-.00076	.00318	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.06753**	**-.00013**	**-.0145**	**.00015**
Stddev	.00003	.00237	.00005	.0193	.00010
%RSD	33.974	3.5124	34.276	133.3	67.702
#1	-.00011	.06586	-.00010	-.0008	.00023
#2	-.00007	.06921	-.00017	-.0281	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00060**	**.00073**	**-.08839**	**-.00018**
Stddev	.00003	.00061	.00039	.00911	.00088
%RSD	28.425	100.59	53.863	10.311	498.93
#1	.00013	.00103	.00101	-.08194	-.00080
#2	.00009	.00017	.00045	-.09483	.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592076/1-A Acquired: 8/10/2021 13:19:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00305**	**.00050**	F **-.00643**	**.01331**	**-.00007**
Stddev	.00075	.00003	.00001	.00090	.00005
%RSD	24.648	6.7167	.21077	6.7971	71.242
#1	.00359	.00047	-.00644	.01395	-.00010
#2	.00252	.00052	-.00642	.01267	-.00003
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.00500		
Low Limit			-.00500		

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00045**	**.0110**	**-.00054**	**-.00140**
Stddev	-----	.00003	.0020	.00114	.00123
%RSD	-----	6.1481	17.89	210.32	87.770
#1	z 134.0	.00047	.0096	-.00134	-.00053
#2	z 135.1	.00043	.0123	.00026	-.00227
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00428**	**-.00046**	**.00028**	**.0120**	**-.00006**
Stddev	.00961	.00016	.00001	.0018	.00004
%RSD	224.79	34.727	3.1605	15.08	66.525
#1	-.00252	-.00057	.00029	.0107	-.00003
#2	.01107	-.00035	.00027	.0133	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592076/1-A Acquired: 8/10/2021 13:19:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00070**	**-.00018**	**.00095**	**-.0001**
Stddev	.00030	.00013	.00089	.0002
%RSD	42.616	71.172	94.455	164.5
#1	-.00091	-.00009	.00031	-.0002
#2	-.00049	-.00027	.00158	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3792.5**	**2904.7**	**61699.**	**3258.3**
Stddev	2.6	2.0	55.	12.8
%RSD	.06893	.06732	.08910	.39146
#1	3794.4	2903.3	61660.	3249.3
#2	3790.7	2906.1	61738.	3267.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.40%	101.78%	102.25%	104.45%
Range				

Sample Name: LCS 480-592076/2-A Acquired: 8/10/2021 13:23:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04688**	**10.002**	**.20494**	**.20381**	**.22420**
Stddev	.00004	.048	.00048	.00019	.00007
%RSD	.09385	.48141	.23263	.09536	.02971
#1	.04691	9.9683	.20460	.20368	.22415
#2	.04685	10.036	.20527	.20395	.22425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20940**	**10.144**	**.20092**	**-.0064**	**.19752**
Stddev	.00014	.014	.00022	.0029	.00019
%RSD	.06447	.14222	.11073	45.67	.09610
#1	.20930	10.134	.20076	-.0044	.19739
#2	.20950	10.154	.20108	-.0085	.19765
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19878**	**.19885**	**9.7860**	**10.095**	**.19408**
Stddev	.00022	.00053	.0146	.043	.00042
%RSD	.11115	.26845	.14913	.42661	.21721
#1	.19894	.19848	9.7757	10.064	.19379
#2	.19863	.19923	9.7963	10.125	.19438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592076/2-A Acquired: 8/10/2021 13:23:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6868**	**.20413**	**.20730**	**10.270**	**.19861**
Stddev	.0209	.00027	.00076	.010	.00022
%RSD	.21583	.13458	.36517	.09669	.11080
#1	9.7016	.20432	.20676	10.263	.19877
#2	9.6721	.20393	.20783	10.277	.19845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20140**	**9.928**	**.21693**	**.19386**
Stddev	-----	.00041	.021	.00186	.00122
%RSD	-----	.20500	.2123	.85718	.62880
#1	z 156.0	.20111	9.943	.21825	.19473
#2	z 157.1	.20170	9.913	.21562	.19300
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4526**	**.19671**	**.20467**	**.0225**	**.20295**
Stddev	.0757	.00029	.00073	.0053	.00025
%RSD	.80094	.14500	.35707	23.41	.12496
#1	9.3990	.19651	.20415	.0188	.20313
#2	9.5061	.19692	.20519	.0262	.20277
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592076/2-A Acquired: 8/10/2021 13:23:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20377**	**.20088**	**.20240**	**.0178**
Stddev	.00131	.00026	.00026	.0008
%RSD	.64423	.12909	.12981	4.763
#1	.20284	.20070	.20221	.0184
#2	.20470	.20107	.20258	.0172
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3556.9**	**2853.7**	**59815.**	**3215.2**
Stddev	3.5	2.9	42.	4.1
%RSD	.09854	.10026	.06959	.12701
#1	3559.3	2855.7	59845.	3212.3
#2	3554.4	2851.7	59786.	3218.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.165%	99.988%	99.128%	103.06%
Range				

Sample Name: 480-188016-A-1-A Acquired: 8/10/2021 13:26:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.10983**	**-.00020**	**.02678**	**.09421**
Stddev	.00021	.00769	.00021	.00017	.00003
%RSD	324.36	7.0031	102.15	.64061	.03667
#1	.00021	.10439	-.00035	.02691	.09419
#2	-.00008	.11526	-.00006	.02666	.09424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**40.095**	**.00013**	**.0020**	**.00052**
Stddev	.00011	.131	.00002	.0076	.00006
%RSD	87.874	.32570	12.731	379.0	11.556
#1	-.00005	40.188	.00014	-.0034	.00048
#2	-.00020	40.003	.00012	.0074	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01630**	**.00614**	**.06151**	**1.7546**	**.00908**
Stddev	.00013	.00044	.00352	.0230	.00107
%RSD	.77229	7.0976	5.7227	1.3120	11.828
#1	.01639	.00584	.06400	1.7383	.00984
#2	.01621	.00645	.05902	1.7708	.00832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-A Acquired: 8/10/2021 13:26:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.318**	**.00511**	**-.00251**	**22.791**	**.01745**
Stddev	.073	.00003	.00010	.009	.00043
%RSD	.51168	.54853	3.8996	.03831	2.4845
#1	14.266	.00509	-.00244	22.784	.01776
#2	14.369	.00513	-.00258	22.797	.01715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00019**	**7.156**	**-.00113**	**-.00150**
Stddev	-----	.00027	.003	.00144	.00293
%RSD	-----	138.34	.0411	126.63	195.44
#1	z 162.6	-.00038	7.158	-.00215	.00057
#2	z 162.1	-.00000	7.154	-.00012	-.00357
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6986**	**-.00108**	**2.6383**	**-.0024**	**.00061**
Stddev	.0092	.00022	.0001	.0160	.00002
%RSD	.34029	20.174	.00580	670.4	2.4719
#1	2.6921	-.00093	2.6382	-.0137	.00060
#2	2.7051	-.00124	2.6384	.0089	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-A Acquired: 8/10/2021 13:26:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00044**	**-.00004**	**.00278**	**.0010**
Stddev	.00059	.00024	.00034	.0013
%RSD	134.31	588.21	12.266	134.8
#1	-.00086	-.00021	.00302	.0000
#2	-.00002	.00013	.00254	.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3483.2**	**2792.9**	**58641.**	**3234.5**
Stddev	.9	6.1	232.	1.9
%RSD	.02526	.22001	.39602	.05935
#1	3483.8	2788.5	58805.	3235.9
#2	3482.5	2797.2	58476.	3233.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.214%	97.857%	97.182%	103.68%
Range				

Sample Name: 480-188016-A-1-ASD@5 Acquired: 8/10/2021 13:30:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.04008**	**-.00150**	**.00387**	**.01937**
Stddev	.00032	.02420	.00140	.00011	.00009
%RSD	333.87	60.383	93.659	2.9221	.47072
#1	.00013	.02297	-.00051	.00395	.01943
#2	-.00033	.05720	-.00249	.00379	.01930
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**8.1567**	**-.00010**	**-.0211**	**.00015**
Stddev	.00005	.0035	.00009	.0061	.00000
%RSD	95.927	.04237	88.971	28.97	2.0459
#1	-.00002	8.1543	-.00004	-.0168	.00015
#2	-.00009	8.1592	-.00017	-.0254	.00015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00324**	**.00088**	**.00854**	**.26470**	**.00210**
Stddev	.00010	.00024	.00308	.01536	.00063
%RSD	3.0815	27.911	36.118	5.8019	30.063
#1	.00331	.00105	.00636	.25384	.00166
#2	.00317	.00070	.01072	.27556	.00255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-ASD@5 Acquired: 8/10/2021 13:30:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8681**	**.00102**	**-.00610**	**4.6085**	**.00336**
Stddev	.0035	.00003	.00009	.0128	.00013
%RSD	.12087	2.8996	1.4316	.27795	3.8842
#1	2.8705	.00100	-.00616	4.6175	.00327
#2	2.8656	.00104	-.00603	4.5994	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00074**	**1.388**	**-.00100**	**.00006**
Stddev	-----	.00090	.012	.00122	.00353
%RSD	-----	121.59	.8686	121.06	6163.6
#1	z 143.4	.00010	1.397	-.00014	.00256
#2	z 143.5	.00137	1.380	-.00186	-.00244
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.55057**	**-.00002**	**.52888**	**-.0018**	**-.00003**
Stddev	.00562	.00011	.00114	.0068	.00004
%RSD	1.0200	584.47	.21466	385.5	141.09
#1	.55454	.00006	.52968	.0030	-.00000
#2	.54659	-.00010	.52808	-.0065	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-ASD@5 Acquired: 8/10/2021 13:30:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00118**	**-.00006**	**.00130**	**-.0004**
Stddev	.00088	.00018	.00002	.0003
%RSD	74.717	309.87	1.9171	62.73
#1	-.00056	.00007	.00131	-.0002
#2	-.00180	-.00018	.00128	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3672.1**	**2860.0**	**60145.**	**3186.4**
Stddev	3.0	2.0	211.	3.5
%RSD	.08178	.06943	.35010	.11024
#1	3674.2	2861.5	59996.	3183.9
#2	3670.0	2858.6	60293.	3188.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.216%	100.21%	99.674%	102.14%
Range				

Sample Name: 480-188016-A-1-APDS Acquired: 8/10/2021 13:34:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04796**	**9.8653**	**.20907**	**.22506**	**.30854**
Stddev	.00031	.0104	.00141	.00009	.00050
%RSD	.63654	.10535	.67481	.03855	.16250
#1	.04818	9.8726	.21006	.22500	.30818
#2	.04775	9.8580	.20807	.22512	.30889
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21021**	**48.992**	**.20201**	**.0078**	**.20058**
Stddev	.00031	.159	.00008	.0065	.00014
%RSD	.14693	.32441	.03850	84.19	.06769
#1	.21043	49.104	.20196	.0124	.20068
#2	.20999	48.879	.20207	.0031	.20049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21297**	**.20568**	**9.7767**	**11.830**	**.20434**
Stddev	.00095	.00017	.0480	.032	.00098
%RSD	.44533	.08424	.49115	.27230	.48054
#1	.21364	.20580	9.8106	11.853	.20504
#2	.21230	.20556	9.7427	11.807	.20365
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-APDS Acquired: 8/10/2021 13:34:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.553**	**.20671**	**.21154**	**32.123**	**.21698**
Stddev	.023	.00051	.00071	.136	.00020
%RSD	.09679	.24486	.33328	.42419	.09130
#1	23.537	.20635	.21104	32.219	.21684
#2	23.569	.20707	.21204	32.027	.21712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20415**	**17.10**	**.21105**	**.19410**
Stddev	-----	.00018	.04	.00121	.00121
%RSD	-----	.08718	.2295	.57358	.62117
#1	z 179.4	.20403	17.07	.21190	.19324
#2	z 179.6	.20428	17.13	.21019	.19495
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.235**	**.19758**	**2.7575**	**.0169**	**.20596**
Stddev	.052	.00026	.0102	.0158	.00106
%RSD	.42196	.13387	.37142	93.38	.51430
#1	12.272	.19777	2.7648	.0280	.20522
#2	12.199	.19739	2.7503	.0057	.20671
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-APDS Acquired: 8/10/2021 13:34:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20596**	**.20172**	**.20420**	**.0164**
Stddev	.00017	.00004	.00058	.0008
%RSD	.08399	.01818	.28312	4.839
#1	.20584	.20175	.20461	.0159
#2	.20609	.20170	.20379	.0170
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3383.8**	**2792.3**	**58117.**	**3181.8**
Stddev	.6	1.7	61.	3.3
%RSD	.01743	.06055	.10413	.10370
#1	3383.3	2793.5	58075.	3179.5
#2	3384.2	2791.1	58160.	3184.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.583%	97.838%	96.315%	101.99%
Range				

Sample Name: 480-188016-A-1-B MS Acquired: 8/10/2021 13:38:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04699**	**10.045**	**.21085**	**.22422**	**.31031**
Stddev	.00036	.033	.00104	.00029	.00031
%RSD	.76326	.33226	.49342	.13147	.09912
#1	.04674	10.022	.21012	.22401	.31009
#2	.04725	10.069	.21159	.22442	.31052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20948**	**49.140**	**.20078**	**.0048**	**.19945**
Stddev	.00012	.177	.00056	.0113	.00017
%RSD	.05816	.36091	.27699	232.5	.08385
#1	.20939	49.015	.20039	.0128	.19957
#2	.20956	49.266	.20118	-.0031	.19933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21276**	**.20416**	**9.7159**	**11.881**	**.20459**
Stddev	.00123	.00049	.0385	.079	.00073
%RSD	.57972	.23973	.39617	.66595	.35507
#1	.21189	.20381	9.6886	11.825	.20510
#2	.21363	.20451	9.7431	11.937	.20407
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-B MS Acquired: 8/10/2021 13:38:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.575**	**.20570**	**.21114**	**32.320**	**.21593**
Stddev	.136	.00062	.00009	.065	.00047
%RSD	.57637	.30191	.04087	.20158	.21755
#1	23.479	.20526	.21108	32.274	.21560
#2	23.671	.20613	.21121	32.366	.21626
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20399**	**17.22**	**.21941**	**.19448**
Stddev	-----	.00064	.03	.00031	.00007
%RSD	-----	.31219	.1674	.14289	.03817
#1	z 179.1	.20444	17.20	.21919	.19443
#2	z 178.5	.20354	17.24	.21963	.19453
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.269**	**.20116**	**2.7845**	**.0038**	**.20418**
Stddev	.034	.00175	.0013	.0045	.00168
%RSD	.27475	.87089	.04564	119.6	.82253
#1	12.245	.20240	2.7836	.0070	.20299
#2	12.292	.19992	2.7854	.0006	.20536
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-B MS Acquired: 8/10/2021 13:38:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20482**	**.20129**	**.20358**	**.0089**
Stddev	.00126	.00087	.00072	.0011
%RSD	.61294	.43463	.35457	12.08
#1	.20571	.20068	.20307	.0097
#2	.20394	.20191	.20409	.0082
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3384.3**	**2797.7**	**58170.**	**3201.2**
Stddev	7.4	6.9	228.	11.2
%RSD	.21854	.24589	.39260	.35120
#1	3389.6	2802.6	58331.	3209.1
#2	3379.1	2792.8	58008.	3193.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.598%	98.027%	96.401%	102.62%
Range				

Sample Name: 480-188016-A-1-C MSD Acquired: 8/10/2021 13:41:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04639**	**9.9299**	**.20748**	**.22435**	**.30943**
Stddev	.00044	.0625	.00250	.00001	.00058
%RSD	.94676	.62989	1.2027	.00355	.18869
#1	.04608	9.9741	.20924	.22435	.30902
#2	.04671	9.8857	.20571	.22436	.30984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20847**	**49.847**	**.19935**	**.0128**	**.19763**
Stddev	.00103	.125	.00001	.0419	.00008
%RSD	.49241	.25142	.00558	326.2	.04066
#1	.20920	49.935	.19935	.0425	.19757
#2	.20775	49.758	.19934	-.0168	.19768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20998**	**.20242**	**9.6389**	**11.854**	**.20358**
Stddev	.00056	.00065	.0146	.082	.00018
%RSD	.26769	.32239	.15193	.69497	.08950
#1	.20958	.20288	9.6493	11.912	.20371
#2	.21038	.20196	9.6286	11.795	.20346
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-C MSD Acquired: 8/10/2021 13:41:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.659**	**.20375**	**.20938**	**32.643**	**.21449**
Stddev	.038	.00008	.00031	.141	.00016
%RSD	.16066	.04079	.14787	.43138	.07390
#1	23.686	.20381	.20917	32.742	.21460
#2	23.632	.20369	.20960	32.543	.21438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20155**	**17.26**	**.21654**	**.19493**
Stddev	-----	.00041	.00	.00022	.00309
%RSD	-----	.20587	.0130	.09973	1.5829
#1	z 179.0	.20125	17.26	.21638	.19711
#2	z 179.2	.20184	17.26	.21669	.19275
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.128**	**.19750**	**2.8271**	**.0165**	**.20244**
Stddev	.006	.00012	.0131	.0081	.00031
%RSD	.05004	.06294	.46387	48.92	.15288
#1	12.132	.19741	2.8364	.0223	.20222
#2	12.123	.19759	2.8178	.0108	.20266
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-1-C MSD Acquired: 8/10/2021 13:41:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20244**	**.19877**	**.20297**	**.0095**
Stddev	.00141	.00126	.00022	.0001
%RSD	.69462	.63567	.11007	1.558
#1	.20145	.19787	.20281	.0096
#2	.20344	.19966	.20313	.0094
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3380.1**	**2793.4**	**58318.**	**3181.3**
Stddev	.7	1.8	40.	14.2
%RSD	.01969	.06546	.06852	.44484
#1	3380.6	2794.7	58347.	3171.3
#2	3379.6	2792.1	58290.	3191.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.486%	97.876%	96.648%	101.98%
Range				

Sample Name: 480-188016-A-2-A Acquired: 8/10/2021 13:45:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.36624**	**.00138**	**.01432**	**.02258**
Stddev	.00009	.01501	.00116	.00002	.00002
%RSD	95.329	4.0976	84.098	.13663	.09149
#1	-.00003	.37685	.00219	.01433	.02257
#2	-.00016	.35563	.00056	.01431	.02260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**42.121**	**-.00009**	**.0083**	**.00140**
Stddev	.00000	.232	.00009	.0074	.00000
%RSD	2.8582	.55108	108.81	89.09	.21211
#1	-.00011	41.957	-.00015	.0031	.00140
#2	-.00011	42.285	-.00002	.0135	.00141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14491**	**.00182**	**1.0785**	**1.0888**	**.00347**
Stddev	.00051	.00011	.0086	.0236	.00099
%RSD	.35368	5.8092	.79914	2.1690	28.506
#1	.14454	.00175	1.0724	1.0721	.00277
#2	.14527	.00190	1.0846	1.1055	.00417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-2-A Acquired: 8/10/2021 13:45:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1185**	**.03526**	**-.00459**	**122.17**	**.10844**
Stddev	.0022	.00002	.00002	.85	.00001
%RSD	.04300	.06685	.36525	.69623	.00573
#1	5.1170	.03528	-.00458	121.57	.10845
#2	5.1201	.03525	-.00461	122.77	.10844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00158**	**11.81**	**-.00083**	**-.00317**
Stddev	-----	.00069	.01	.00237	.00099
%RSD	-----	43.627	.1111	286.37	31.034
#1	z 158.4	.00109	11.80	.00085	-.00387
#2	z 158.2	.00207	11.82	-.00250	-.00248
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4112**	**.00056**	**.29310**	**.0058**	**.00692**
Stddev	.0442	.00018	.00128	.0011	.00066
%RSD	1.0027	31.964	.43723	19.27	9.4716
#1	4.3800	.00069	.29219	.0066	.00739
#2	4.4425	.00044	.29400	.0050	.00646
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-2-A Acquired: 8/10/2021 13:45:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00078**	**.00605**	**-.0005**
Stddev	.00127	.00023	.00012	.0008
%RSD	1843.2	29.853	1.9192	163.0
#1	-.00083	.00061	.00597	.0001
#2	.00097	.00094	.00613	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3333.5**	**2757.8**	**57153.**	**3197.9**
Stddev	2.3	2.6	32.	19.7
%RSD	.07048	.09541	.05681	.61476
#1	3335.1	2755.9	57130.	3211.8
#2	3331.8	2759.6	57176.	3184.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.252%	96.629%	94.716%	102.51%
Range				

Sample Name: 480-188016-A-3-A Acquired: 8/10/2021 13:49:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.18499**	**-.00142**	**.03319**	**.02793**
Stddev	.00009	.00505	.00079	.00051	.00001
%RSD	22.550	2.7275	55.528	1.5447	.03316
#1	.00034	.18143	-.00086	.03283	.02792
#2	.00046	.18856	-.00198	.03356	.02794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**79.410**	**.00030**	**.0042**	**.00312**
Stddev	.00003	.231	.00006	.0073	.00002
%RSD	39.042	.29047	21.179	173.4	.55319
#1	.00006	79.247	.00035	.0094	.00313
#2	.00011	79.574	.00026	-.0010	.00311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21337**	**.00227**	**.89392**	**2.2530**	**.00693**
Stddev	.00031	.00003	.01127	.0185	.00162
%RSD	.14425	1.5234	1.2611	.82103	23.423
#1	.21358	.00225	.88595	2.2399	.00807
#2	.21315	.00230	.90189	2.2661	.00578
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-3-A Acquired: 8/10/2021 13:49:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0778**	**4.2493**	**-.00495**	**77.737**	**.03763**
Stddev	.0145	.0017	.00017	.586	.00006
%RSD	.17940	.04023	3.3374	.75354	.15862
#1	8.0676	4.2481	-.00483	77.322	.03767
#2	8.0881	4.2505	-.00507	78.151	.03759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00163**	**11.03**	**-.00270**	**-.00189**
Stddev	-----	.00022	.05	.00156	.00344
%RSD	-----	13.436	.4323	57.713	181.89
#1	z 162.0	.00148	10.99	-.00380	.00054
#2	z 162.1	.00179	11.06	-.00160	-.00432
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4675**	**.00018**	**.49336**	**.0006**	**.00356**
Stddev	.0359	.00060	.00071	.0105	.00406
%RSD	.65656	329.50	.14409	1772.	114.23
#1	5.4421	.00061	.49286	-.0068	.00068
#2	5.4928	-.00024	.49387	.0080	.00643
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-3-A Acquired: 8/10/2021 13:49:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00184**	**.00058**	**.00199**	**.0004**
Stddev	.00005	.00030	.00014	.0004
%RSD	2.9820	52.717	7.2758	106.5
#1	-.00180	.00079	.00188	.0007
#2	-.00188	.00036	.00209	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3338.3**	**2748.3**	**57398.**	**3195.8**
Stddev	3.3	2.6	128.	12.8
%RSD	.09749	.09413	.22268	.40166
#1	3336.0	2750.2	57488.	3204.9
#2	3340.6	2746.5	57308.	3186.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.379%	96.297%	95.122%	102.44%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 13:53:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96280**	**48.747**	**.97904**	**.98520**	**.99419**	**.98765**	**49.029**	**.96656**
Stddev	.00180	.129	.00280	.00053	.00250	.00394	.187	.00112
%RSD	.18715	.26520	.28608	.05426	.25128	.39844	.38217	.11584
#1	.96152	48.655	.98102	.98558	.99242	.98486	48.896	.96735
#2	.96407	48.838	.97706	.98482	.99596	.99043	49.161	.96577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9932**	**.99115**	**.98417**	**.98360**	**49.018**	**49.583**	**.95701**	**48.195**
Stddev	.0072	.00049	.00083	.00042	.261	.128	.00349	.017
%RSD	.7230	.04983	.08483	.04277	.53260	.25809	.36445	.03441
#1	.9882	.99080	.98476	.98330	48.834	49.492	.95454	48.206
#2	.9983	.99149	.98358	.98390	49.203	49.673	.95948	48.183
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.98537**	**.99989**	**49.480**	**.98323**	z *****	**.99215**	**24.75**	**.97666**
Stddev	.00173	.00368	.125	.00134	-----	.00262	.00	.00416
%RSD	.17567	.36820	.25324	.13586	-----	.26448	.0122	.42549
#1	.98414	.99729	49.392	.98228	z 9129.	.99029	24.75	.97959
#2	.98659	1.0025	49.569	.98417	z 9121.	.99400	24.75	.97372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 13:53:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97266	9.6644	.99038	.97682	.9618	.98579	.99196	.98954
Stddev	.00966	.0756	.00171	.00186	.0272	.00126	.00161	.00102
%RSD	.99301	.78241	.17282	.19006	2.832	.12750	.16273	.10319
#1	.97949	9.6110	.98917	.97551	.9425	.98668	.99310	.98882
#2	.96583	9.7179	.99159	.97813	.9810	.98490	.99081	.99026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0044	.9015
Stddev	.0002	.0005
%RSD	.02149	.0600
#1	1.0042	.9011
#2	1.0045	.9019
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3244.8	2782.9	56655.	3139.5
Stddev	.6	3.9	109.	10.1
%RSD	.01837	.14116	.19198	.32059
#1	3245.2	2780.1	56578.	3146.6
#2	3244.4	2785.7	56732.	3132.4

Sample Name: CCB-6597963 Acquired: 8/10/2021 13:56:52 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00088**	**.02628**	**.00100**	**-.00158**	**.00011**	**.00005**	**-.00085**	**-.00006**
Stddev	.00036	.01636	.00274	.00035	.00001	.00003	.00090	.00008
%RSD	40.858	62.252	273.92	22.046	11.169	62.547	105.29	136.92
#1	.00114	.01471	.00294	-.00183	.00010	.00007	-.00022	-.00012
#2	.00063	.03785	-.00094	-.00134	.00012	.00003	-.00149	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0325**	**.00017**	**.00010**	**.00011**	**.00140**	**-.08284**	**-.00133**	**.00298**
Stddev	.0049	.00002	.00019	.00019	.00045	.01612	.00040	.00097
%RSD	15.06	12.735	185.71	172.32	32.046	19.456	29.809	32.418
#1	.0360	.00019	.00024	.00024	.00108	-.07144	-.00105	.00366
#2	.0291	.00016	-.00003	-.00002	.00171	-.09424	-.00160	.00229
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00001**	**.00065**	**.00134**	**-.00005**	z *****	**-.00063**	**-.0038**	**.00018**
Stddev	.00003	.00144	.00017	.00009	-----	.00008	.0016	.00203
%RSD	249.42	219.48	12.951	177.75	-----	12.419	41.77	1100.2
#1	.00003	.00167	.00122	-.00011	z 136.9	-.00057	-.0027	-.00125
#2	-.00001	-.00036	.00147	.00001	z 136.5	-.00068	-.0049	.00162
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 13:56:52 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00508	-.00413	.00032	.00001	-.0013	.00011	-.00038	-.00004
Stddev	.00072	.02035	.00018	.00000	.0091	.00017	.00018	.00003
%RSD	14.244	492.31	55.934	24.911	702.9	161.10	47.985	77.646
#1	.00559	-.01852	.00020	.00001	.0051	.00023	-.00052	-.00002
#2	.00457	.01025	.00045	.00001	-.0077	-.00001	-.00025	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00067	.0002
Stddev	.00009	.0006
%RSD	12.742	383.6
#1	.00061	-.0003
#2	.00073	.0006
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3784.6	2891.1	61055.	3189.1
Stddev	2.2	2.7	54.	3.5
%RSD	.05845	.09268	.08898	.10829
#1	3783.1	2889.2	61016.	3191.6
#2	3786.2	2893.0	61093.	3186.7

Sample Name: CCVL-6603764 Acquired: 8/10/2021 14:00:42 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00553**	**.20237**	**.01527**	**.01689**	**.00217**	**.00194**	**.48658**
Stddev	.00037	.01191	.00070	.00021	.00002	.00002	.00434
%RSD	6.7254	5.8872	4.5580	1.2215	1.0182	1.0307	.89148
#1	.00579	.19394	.01477	.01675	.00215	.00195	.48351
#2	.00527	.21079	.01576	.01704	.00219	.00193	.48965
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.0050**	**.00410**	**.00373**	**.00930**	**.04622**	**.37090**
Stddev	.00004	.0068	.00008	.00023	.00037	.00016	.03200
%RSD	2.1354	137.3	1.9850	6.2542	3.9563	.34882	8.6266
#1	.00191	.0098	.00416	.00389	.00904	.04634	.39353
#2	.00185	.0001	.00405	.00356	.00956	.04611	.34828
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02757**	**.19084**	**.00317**	F **.00449**	**1.0092**	**.00948**	z *****
Stddev	.00014	.00095	.00006	.00010	.0030	.00003	-----
%RSD	.49646	.49869	2.0031	2.2237	.30004	.30892	-----
#1	.02747	.19151	.00322	.00456	1.0071	.00946	z 136.3
#2	.02767	.19016	.00313	.00442	1.0113	.00950	z 136.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 14:00:42 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00951**	**.1888**	**.01956**	**.02558**	**.46100**	**.00855**	**.00479**
Stddev	.00041	.0014	.00012	.00126	.00734	.00070	.00002
%RSD	4.3207	.7385	.63031	4.9378	1.5913	8.2132	.48641
#1	.00922	.1898	.01947	.02468	.45581	.00905	.00481
#2	.00980	.1878	.01965	.02647	.46619	.00806	.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.00440**	**.01908**	**.00478**	**.00990**	**.0005**
Stddev	.0143	.00013	.00056	.00016	.00003	.0004
%RSD	1805.	2.8554	2.9397	3.3731	.29433	71.53
#1	-.0093	.00449	.01948	.00467	.00992	.0003
#2	.0109	.00431	.01869	.00490	.00988	.0008
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3754.3**	**2902.5**	**60801.**	**3187.1**
Stddev	2.4	4.5	211.	3.3
%RSD	.06362	.15487	.34685	.10397
#1	3752.7	2899.4	60950.	3189.5
#2	3756.0	2905.7	60652.	3184.8

Sample Name: 480-188016-A-4-A Acquired: 8/10/2021 14:04:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.13226**	**.00061**	**.01460**	**.04870**
Stddev	.00045	.01411	.00180	.00024	.00002
%RSD	287.39	10.667	293.59	1.6154	.03101
#1	-.00016	.12228	-.00066	.01443	.04869
#2	.00048	.14223	.00188	.01477	.04871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**52.286**	**-.00002**	**.0086**	**.00062**
Stddev	.00004	.232	.00009	.0394	.00013
%RSD	180.49	.44422	496.08	457.3	20.657
#1	-.00005	52.451	.00005	-.0192	.00053
#2	.00001	52.122	-.00008	.0364	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.00079**	**2.2658**	**1.8282**	**.00104**
Stddev	.00011	.00014	.0073	.0021	.00052
%RSD	6.1516	17.452	.32196	.11401	50.019
#1	.00165	.00070	2.2710	1.8297	.00141
#2	.00180	.00089	2.2606	1.8267	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-4-A Acquired: 8/10/2021 14:04:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.820**	**.33462**	**-.00664**	**142.49**	**.00076**
Stddev	.002	.00052	.00020	.20	.00014
%RSD	.01226	.15563	3.0175	.13768	18.348
#1	12.821	.33425	-.00650	142.63	.00066
#2	12.819	.33499	-.00678	142.35	.00086
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00094**	**2.050**	**.00058**	**-.00210**
Stddev	-----	.00040	.000	.00005	.00161
%RSD	-----	42.288	.0170	8.8826	76.501
#1	z 184.4	.00122	2.050	.00062	-.00324
#2	z 184.6	.00066	2.051	.00054	-.00097
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0808**	**.00018**	**.18596**	**.0082**	**.00099**
Stddev	.0027	.00033	.00078	.0063	.00049
%RSD	.12916	180.03	.41745	76.70	48.974
#1	2.0827	-.00005	.18651	.0037	.00065
#2	2.0789	.00042	.18541	.0126	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-4-A Acquired: 8/10/2021 14:04:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00014**	**.00089**	**.0007**
Stddev	.00027	.00024	.00033	.0004
%RSD	125.60	175.71	37.194	54.19
#1	.00041	-.00003	.00112	.0004
#2	.00002	.00031	.00065	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3265.8**	**2745.8**	**56647.**	**3156.4**
Stddev	1.0	1.1	153.	28.4
%RSD	.02990	.03835	.27021	.89968
#1	3266.4	2745.0	56756.	3136.3
#2	3265.1	2746.5	56539.	3176.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.458%	96.208%	93.879%	101.18%
Range				

Sample Name: 480-188016-A-5-A Acquired: 8/10/2021 14:08:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.07004**	**-.00185**	**.34522**	**.02381**
Stddev	.00008	.00503	.00131	.00096	.00006
%RSD	167.91	7.1806	71.009	.27936	.25010
#1	.00001	.07360	-.00277	.34454	.02385
#2	-.00011	.06649	-.00092	.34590	.02377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**43.469**	**.00009**	**.0221**	**.00029**
Stddev	.00004	.096	.00009	.0247	.00003
%RSD	41.272	.22068	99.203	112.0	12.033
#1	-.00014	43.402	.00003	.0395	.00031
#2	-.00007	43.537	.00015	.0046	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00027**	**.00131**	**2.7901**	**.00349**
Stddev	.00024	.00037	.00255	.0020	.00045
%RSD	175.46	135.38	193.58	.07295	12.962
#1	.00031	.00001	-.00048	2.7915	.00381
#2	-.00003	.00053	.00311	2.7887	.00317
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-5-A Acquired: 8/10/2021 14:08:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4385**	**.00069**	**-.00730**	**75.592**	**-.00001**
Stddev	.0004	.00002	.00024	.259	.00027
%RSD	.00777	2.1724	3.3108	.34242	3959.5
#1	5.4382	.00070	-.00713	75.409	-.00020
#2	5.4388	.00068	-.00747	75.775	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00054**	**11.13**	**-.00161**	**-.00137**
Stddev	-----	.00031	.02	.00110	.00327
%RSD	-----	57.922	.1487	68.024	237.86
#1	z 157.6	.00032	11.12	-.00084	.00094
#2	z 158.6	.00076	11.15	-.00239	-.00368
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7162**	**-.00107**	**.24921**	**-.0010**	**-.00015**
Stddev	.0066	.00006	.00002	.0241	.00020
%RSD	.14068	6.0422	.00757	2456.	132.96
#1	4.7115	-.00103	.24919	.0161	-.00001
#2	4.7209	-.00112	.24922	-.0180	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-5-A Acquired: 8/10/2021 14:08:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00014**	**-.00000**	**.00002**	**.0006**
Stddev	.00010	.00011	.00014	.0017
%RSD	74.488	2739.2	652.26	281.1
#1	-.00021	.00007	.00012	.0018
#2	-.00007	-.00008	-.00008	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3391.9**	**2776.7**	**57716.**	**3193.4**
Stddev	2.5	3.4	103.	2.8
%RSD	.07356	.12176	.17794	.08641
#1	3390.1	2774.3	57643.	3195.3
#2	3393.7	2779.1	57789.	3191.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.798%	97.290%	95.649%	102.36%
Range				

Sample Name: 480-188016-A-6-A Acquired: 8/10/2021 14:12:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.06923**	**-.00030**	**.01247**	**.03538**
Stddev	.00006	.00533	.00183	.00034	.00012
%RSD	44.438	7.7011	599.74	2.7217	.33704
#1	-.00018	.07300	-.00160	.01271	.03547
#2	-.00010	.06546	.00099	.01223	.03530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**70.949**	**.00003**	**.0156**	**-.00017**
Stddev	.00002	.035	.00001	.0148	.00001
%RSD	66.246	.04959	33.087	94.64	4.9220
#1	-.00002	70.973	.00002	.0261	-.00018
#2	-.00004	70.924	.00003	.0052	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00323**	**.00216**	**1.0665**	**.00111**
Stddev	.00035	.00033	.00062	.0307	.00028
%RSD	137.72	10.239	28.502	2.8738	25.017
#1	.00001	.00299	.00260	1.0882	.00130
#2	.00050	.00346	.00173	1.0448	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-6-A Acquired: 8/10/2021 14:12:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7102**	**.00082**	**-.00723**	**127.91**	**-.00040**
Stddev	.0279	.00002	.00008	.63	.00006
%RSD	.36190	3.0035	1.1053	.48890	14.011
#1	7.7299	.00081	-.00728	128.35	-.00045
#2	7.6905	.00084	-.00717	127.46	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00094**	**11.87**	**-.00307**	**-.00490**
Stddev	-----	.00119	.01	.00101	.00077
%RSD	-----	127.03	.1233	32.939	15.800
#1	z 160.1	.00010	11.86	-.00378	-.00435
#2	z 162.1	.00178	11.89	-.00235	-.00545
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5915**	**-.00014**	**.33556**	**-.0036**	**.00012**
Stddev	.0230	.00025	.00123	.0037	.00013
%RSD	.88695	171.03	.36636	102.9	108.44
#1	2.5753	.00003	.33643	-.0010	.00021
#2	2.6078	-.00032	.33469	-.0062	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-6-A Acquired: 8/10/2021 14:12:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00063**	**-.00001**	**.00145**	**.0008**
Stddev	.00114	.00019	.00013	.0013
%RSD	179.22	1481.3	9.0262	153.0
#1	.00144	-.00015	.00136	-.0001
#2	-.00017	.00012	.00154	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3282.3**	**2738.6**	**56453.**	**3150.4**
Stddev	6.1	1.7	111.	9.2
%RSD	.18515	.06210	.19706	.29118
#1	3286.6	2739.8	56374.	3156.9
#2	3278.0	2737.4	56532.	3143.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.896%	95.956%	93.556%	100.99%
Range				

Sample Name: 480-188016-A-7-A Acquired: 8/10/2021 14:15:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.06084**	**-.00253**	**.01056**	**.02043**
Stddev	.00010	.03019	.00161	.00077	.00001
%RSD	61.440	49.629	63.636	7.2476	.03710
#1	-.00009	.08219	-.00367	.01002	.02043
#2	-.00024	.03949	-.00139	.01110	.02044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**64.595**	**.00020**	**.0156**	**.00007**
Stddev	.00004	.052	.00013	.0011	.00006
%RSD	111.42	.08043	63.915	7.296	78.566
#1	-.00001	64.632	.00011	.0148	.00003
#2	-.00006	64.558	.00029	.0164	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00021**	**.03538**	**2.2035**	**.00444**
Stddev	.00009	.00036	.00058	.0075	.00043
%RSD	59.020	173.06	1.6520	.33923	9.7904
#1	.00009	.00046	.03579	2.1982	.00413
#2	.00022	-.00005	.03497	2.2088	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-7-A Acquired: 8/10/2021 14:15:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4509**	**.00312**	**-.00738**	**41.651**	**-.00006**
Stddev	.0193	.00001	.00016	.128	.00021
%RSD	.35448	.17134	2.1850	.30679	379.28
#1	5.4373	.00312	-.00727	41.741	-.00021
#2	5.4646	.00313	-.00749	41.560	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00012**	**4.999**	**-.00044**	**-.00413**
Stddev	-----	.00004	.004	.00048	.00282
%RSD	-----	34.045	.0714	109.10	68.124
#1	z 156.0	-.00009	5.002	-.00078	-.00214
#2	z 155.2	-.00014	4.997	-.00010	-.00612
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8205**	**-.00073**	**.25433**	**.0180**	**.00039**
Stddev	.0258	.00054	.00043	.0072	.00013
%RSD	.67510	73.834	.16883	39.95	32.153
#1	3.8023	-.00111	.25464	.0231	.00048
#2	3.8388	-.00035	.25403	.0129	.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-7-A Acquired: 8/10/2021 14:15:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00100**	**.00007**	**-.00001**	**-.0003**
Stddev	.00057	.00011	.00019	.0002
%RSD	56.600	162.92	3128.6	57.42
#1	-.00141	-.00001	.00013	-.0005
#2	-.00060	.00015	-.00014	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3424.8**	**2790.9**	**57925.**	**3197.7**
Stddev	.6	3.1	46.	.3
%RSD	.01702	.11269	.07855	.01078
#1	3424.4	2788.6	57957.	3198.0
#2	3425.2	2793.1	57892.	3197.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.669%	97.787%	95.995%	102.50%
Range				

Sample Name: 480-188016-A-8-A Acquired: 8/10/2021 14:19:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.06694**	**-.00007**	**.03615**	**.03517**
Stddev	.00025	.01478	.00180	.00026	.00014
%RSD	2403.0	22.077	2689.1	.72447	.40570
#1	-.00018	.07739	.00121	.03597	.03507
#2	.00016	.05649	-.00134	.03634	.03527
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**98.812**	**.00022**	**-.0143**	**.00593**
Stddev	.00005	.066	.00013	.0037	.00009
%RSD	78.260	.06651	59.831	26.03	1.5169
#1	-.00009	98.766	.00013	-.0169	.00587
#2	-.00003	98.859	.00032	-.0116	.00600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51334**	**.00230**	**1.2169**	**2.1447**	**.00644**
Stddev	.00350	.00045	.0067	.0170	.00104
%RSD	.68190	19.404	.55385	.79475	16.159
#1	.51086	.00198	1.2121	2.1326	.00570
#2	.51581	.00261	1.2217	2.1568	.00718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-8-A Acquired: 8/10/2021 14:19:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8299**	**.86712**	**-.00594**	**123.71**	**.08288**
Stddev	.0484	.00427	.00028	.11	.00001
%RSD	.49197	.49283	4.6281	.09076	.00901
#1	9.7957	.86410	-.00614	123.63	.08287
#2	9.8641	.87014	-.00575	123.79	.08288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00064**	**12.20**	**-.00110**	**-.00117**
Stddev	-----	.00071	.00	.00186	.00107
%RSD	-----	111.83	.0118	169.08	91.871
#1	z 165.5	.00114	12.20	.00022	-.00041
#2	z 166.0	.00013	12.20	-.00242	-.00193
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3552**	**-.00054**	**.64561**	**-.0022**	**.00058**
Stddev	.0408	.00068	.00016	.0012	.00002
%RSD	.76130	126.98	.02493	52.69	3.6322
#1	5.3264	-.00102	.64573	-.0030	.00056
#2	5.3840	-.00005	.64550	-.0014	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-8-A Acquired: 8/10/2021 14:19:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.00088**	**.00116**	**-.0002**
Stddev	.00025	.00014	.00027	.0008
%RSD	21.167	16.097	23.509	348.3
#1	-.00102	.00078	.00097	.0003
#2	-.00137	.00098	.00136	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3259.2**	**2716.8**	**56158.**	**3128.7**
Stddev	3.6	4.4	414.	1.4
%RSD	.11085	.16242	.73745	.04495
#1	3256.6	2713.7	56451.	3129.7
#2	3261.7	2719.9	55865.	3127.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.284%	95.192%	93.067%	100.29%
Range				

Sample Name: 480-188016-A-9-A Acquired: 8/10/2021 14:23:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.04973**	**-.00230**	**.01048**	**.04454**
Stddev	.00026	.01191	.00066	.00024	.00002
%RSD	533.51	23.949	28.570	2.2836	.03705
#1	.00023	.05815	-.00276	.01065	.04455
#2	-.00013	.04130	-.00183	.01031	.04453
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**115.31**	**.00021**	**-.0042**	**.00039**
Stddev	.00009	.33	.00002	.0317	.00008
%RSD	342.93	.28930	11.922	763.0	20.629
#1	-.00009	115.54	.00019	-.0266	.00033
#2	.00004	115.07	.00022	.0183	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00130**	**.00125**	**.06227**	**.84320**	**.00560**
Stddev	.00006	.00012	.00032	.01893	.00054
%RSD	4.8958	9.2782	.51782	2.2447	9.6042
#1	.00125	.00133	.06204	.82981	.00598
#2	.00134	.00117	.06249	.85658	.00522
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-9-A Acquired: 8/10/2021 14:23:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.482**	**.00465**	**-.00700**	**18.163**	**.00344**
Stddev	.015	.00003	.00011	.015	.00000
%RSD	.13839	.59261	1.6207	.08524	.12377
#1	10.471	.00466	-.00709	18.174	.00344
#2	10.492	.00463	-.00692	18.152	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00027**	**15.29**	**-.00086**	**-.00313**
Stddev	-----	.00022	.01	.00034	.00200
%RSD	-----	83.248	.0984	39.176	64.073
#1	z 162.1	.00042	15.30	-.00110	-.00171
#2	z 161.5	.00011	15.28	-.00062	-.00454
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5722**	**-.00146**	**.68358**	**-.0052**	**.00051**
Stddev	.0177	.00025	.00108	.0053	.00002
%RSD	.49581	17.203	.15859	102.4	3.6723
#1	3.5847	-.00128	.68435	-.0014	.00050
#2	3.5596	-.00164	.68281	-.0089	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-9-A Acquired: 8/10/2021 14:23:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00057**	**-.00002**	**.00194**	**-.0008**
Stddev	.00001	.00025	.00025	.0007
%RSD	1.7069	1166.8	13.051	86.24
#1	-.00057	.00016	.00212	-.0003
#2	-.00056	-.00020	.00177	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3393.7**	**2740.3**	**57701.**	**3178.0**
Stddev	3.1	1.7	39.	9.1
%RSD	.09187	.06072	.06836	.28498
#1	3391.5	2741.5	57729.	3171.5
#2	3395.9	2739.1	57673.	3184.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.845%	96.016%	95.625%	101.87%
Range				

Sample Name: 480-188016-A-10-A Acquired: 8/10/2021 14:27:15 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.07086**	**-.00039**	**.01489**	**.02764**
Stddev	.00020	.02805	.00040	.00050	.00001
%RSD	63.456	39.592	102.52	3.3502	.04438
#1	.00018	.05102	-.00067	.01524	.02764
#2	.00046	.09069	-.00011	.01454	.02763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**76.336**	**.00010**	**-.0014**	**.00103**
Stddev	.00009	.038	.00005	.0139	.00013
%RSD	101.97	.04966	49.154	963.9	12.317
#1	-.00002	76.363	.00007	-.0113	.00111
#2	-.00015	76.310	.00014	.0084	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19050**	**.00452**	**.90637**	**.75019**	**.00483**
Stddev	.00003	.00063	.00547	.00788	.00004
%RSD	.01378	13.982	.60397	1.0507	.86292
#1	.19051	.00497	.91024	.75576	.00480
#2	.19048	.00408	.90250	.74462	.00486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-10-A Acquired: 8/10/2021 14:27:15 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1561**	**.01437**	**-.00635**	**89.660**	**.01861**
Stddev	.0252	.00008	.00005	.167	.00019
%RSD	.40995	.58339	.70923	.18631	1.0275
#1	6.1383	.01431	-.00638	89.542	.01847
#2	6.1739	.01443	-.00632	89.779	.01874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00081**	**8.188**	**-.00301**	**-.00318**
Stddev	-----	.00109	.005	.00182	.00266
%RSD	-----	133.75	.0628	60.624	83.656
#1	z 156.7	.00158	8.184	-.00430	-.00130
#2	z 157.1	.00004	8.191	-.00172	-.00507
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9974**	**.00016**	**.35130**	**-.0082**	**.00011**
Stddev	.0237	.00001	.00052	.0005	.00018
%RSD	.59367	3.4146	.14902	6.604	170.16
#1	3.9807	.00016	.35093	-.0085	.00024
#2	4.0142	.00016	.35167	-.0078	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-10-A Acquired: 8/10/2021 14:27:15 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00067**	**.00162**	**-.0004**
Stddev	.00014	.00014	.00071	.0004
%RSD	258.76	21.198	43.720	85.21
#1	.00015	.00077	.00212	-.0007
#2	-.00005	.00057	.00112	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3328.0**	**2738.2**	**57176.**	**3186.4**
Stddev	2.1	.6	127.	1.9
%RSD	.06381	.02160	.22219	.05826
#1	3329.5	2737.7	57266.	3187.7
#2	3326.5	2738.6	57086.	3185.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.107%	95.941%	94.755%	102.14%
Range				

Sample Name: 480-188016-A-11-A Acquired: 8/10/2021 14:31:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.05934**	**-.00128**	**.00873**	**.04547**
Stddev	.00022	.01565	.00147	.00012	.00003
%RSD	44.433	26.374	114.72	1.3302	.06272
#1	.00034	.07041	-.00232	.00881	.04545
#2	.00065	.04828	-.00024	.00864	.04549
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**115.79**	**.00018**	**.0122**	**.00014**
Stddev	.00009	.54	.00012	.0109	.00007
%RSD	169.31	.47055	68.220	88.85	50.418
#1	.00001	116.17	.00026	.0199	.00009
#2	-.00012	115.40	.00009	.0045	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**.00084**	**.08138**	**.87620**	**.00618**
Stddev	.00034	.00040	.00047	.03137	.00118
%RSD	18.956	47.520	.57751	3.5802	19.139
#1	.00202	.00112	.08104	.85402	.00701
#2	.00154	.00056	.08171	.89838	.00534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-11-A Acquired: 8/10/2021 14:31:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.548**	**.00481**	**-.00676**	**18.438**	**.00339**
Stddev	.014	.00003	.00025	.042	.00008
%RSD	.13073	.52483	3.6514	.22568	2.4061
#1	10.538	.00479	-.00658	18.468	.00333
#2	10.557	.00482	-.00693	18.409	.00345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00006**	**15.50**	**-.00274**	**-.00339**
Stddev	-----	.00014	.02	.00109	.00191
%RSD	-----	223.97	.1374	39.947	56.427
#1	z 160.7	-.00004	15.52	-.00351	-.00474
#2	z 161.2	.00017	15.49	-.00197	-.00203
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6057**	**-.00109**	**.69340**	**-.0014**	**.00057**
Stddev	.0133	.00006	.00200	.0052	.00007
%RSD	.36760	5.4240	.28813	382.9	11.871
#1	3.6150	-.00105	.69481	-.0050	.00062
#2	3.5963	-.00114	.69198	.0023	.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-A-11-A Acquired: 8/10/2021 14:31:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.00015**	**.00223**	**-.0006**
Stddev	.00042	.00027	.00017	.0001
%RSD	42.900	177.10	7.5933	23.13
#1	-.00127	-.00004	.00211	-.0005
#2	-.00068	.00035	.00235	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3387.6**	**2748.4**	**57565.**	**3190.5**
Stddev	2.0	1.3	82.	2.6
%RSD	.05962	.04891	.14324	.08014
#1	3389.0	2749.3	57507.	3188.7
#2	3386.2	2747.4	57623.	3192.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.684%	96.298%	95.399%	102.27%
Range				

Sample Name: 480-188045-D-1-A Acquired: 8/10/2021 14:34:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.54104**	**.00195**	**.06461**	**.13531**
Stddev	.00036	.00934	.00293	.00020	.00010
%RSD	107.53	1.7271	150.66	.30438	.07604
#1	.00059	.54764	.00402	.06447	.13523
#2	.00008	.53443	-.00013	.06475	.13538
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**169.35**	**.00016**	**.0183**	**.00062**
Stddev	.00004	.82	.00006	.0177	.00015
%RSD	608.15	.48558	37.926	96.78	25.025
#1	.00003	168.77	.00021	.0058	.00051
#2	-.00002	169.93	.00012	.0309	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00113**	**4.3983**	**2.9486**	**.00602**
Stddev	.00015	.00027	.0168	.0034	.00077
%RSD	15.466	23.905	.38163	.11586	12.860
#1	.00085	.00094	4.3864	2.9462	.00657
#2	.00105	.00132	4.4101	2.9510	.00548
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188045-D-1-A Acquired: 8/10/2021 14:34:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.789**	**.35165**	**-.00511**	**48.527**	**.00092**
Stddev	.167	.00169	.00001	.179	.00005
%RSD	.51080	.48016	.15134	.36907	5.3724
#1	32.670	.35046	-.00511	48.401	.00089
#2	32.907	.35285	-.00510	48.654	.00096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00109**	**31.43**	**-.00192**	**-.00416**
Stddev	-----	.00037	.07	.00054	.00241
%RSD	-----	33.859	.2285	28.297	58.060
#1	z 180.3	.00083	31.48	-.00153	-.00245
#2	z 181.1	.00135	31.37	-.00230	-.00586
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4361**	**-.00006**	**.80049**	**.0094**	**.01344**
Stddev	.0200	.00058	.00279	.0066	.00071
%RSD	.26873	927.17	.34903	70.27	5.2846
#1	7.4220	-.00047	.79852	.0141	.01394
#2	7.4502	.00035	.80247	.0047	.01294
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188045-D-1-A Acquired: 8/10/2021 14:34:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.00119**	**.01321**	**-.0001**
Stddev	.00007	.00008	.00013	.0003
%RSD	5.0738	6.5660	.94680	364.1
#1	-.00140	.00124	.01313	.0001
#2	-.00130	.00113	.01330	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3245.0**	**2699.1**	**56534.**	**3173.9**
Stddev	.7	2.1	187.	28.5
%RSD	.02098	.07857	.33158	.89920
#1	3244.5	2697.6	56666.	3194.1
#2	3245.5	2700.6	56401.	3153.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.909%	94.572%	93.690%	101.74%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 14:38:36 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95440**	**48.362**	**.98161**	**.98072**	**.99931**	**.98691**	**48.604**	**.96047**
Stddev	.00019	.026	.00256	.00019	.00149	.00002	.007	.00084
%RSD	.01973	.05365	.26107	.01965	.14876	.00159	.01435	.08762
#1	.95427	48.380	.98342	.98058	.99826	.98692	48.609	.96107
#2	.95453	48.343	.97980	.98085	1.0004	.98690	48.599	.95988
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9987**	**.99599**	**.97861**	**.98217**	**48.732**	**49.327**	**.95347**	**47.722**
Stddev	.0010	.00056	.00121	.00066	.156	.015	.00070	.039
%RSD	.0954	.05624	.12317	.06715	.32073	.03014	.07341	.08097
#1	.9994	.99560	.97947	.98170	48.842	49.338	.95297	47.695
#2	.9981	.99639	.97776	.98263	48.621	49.317	.95396	47.750
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.98049**	**1.0004**	**49.337**	**.98637**	z *****	**.99120**	**24.81**	**.97312**
Stddev	.00021	.0032	.069	.00066	-----	.00055	.00	.00160
%RSD	.02135	.31967	.13959	.06672	-----	.05529	.0029	.16437
#1	.98034	.99809	49.289	.98590	z 9160.	.99159	24.81	.97425
#2	.98064	1.0026	49.386	.98683	z 9165.	.99082	24.81	.97199
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 14:38:36 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97376	9.5159	.99696	.97528	.9887	.98241	.99734	.98689
Stddev	.00375	.0269	.00145	.00155	.0192	.00002	.00138	.00009
%RSD	.38516	.28287	.14566	.15892	1.946	.00182	.13835	.00940
#1	.97110	9.4969	.99798	.97418	1.002	.98240	.99832	.98682
#2	.97641	9.5349	.99593	.97637	.9751	.98242	.99636	.98695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0079	.9465
Stddev	.0011	.0040
%RSD	.11026	.4213
#1	1.0087	.9493
#2	1.0071	.9437
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3237.4	2786.5	56941.	3162.7
Stddev	.1	4.8	36.	15.2
%RSD	.00300	.17161	.06240	.47960
#1	3237.4	2783.2	56916.	3173.4
#2	3237.5	2789.9	56966.	3152.0

Sample Name: CCB-6597963 Acquired: 8/10/2021 14:42:12 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00367**	**.00081**	**-.00182**	**.00007**	**-.00004**	**-.00180**	**-.00009**
Stddev	.00049	.01002	.00093	.00002	.00002	.00004	.00204	.00000
%RSD	720.52	273.04	115.68	1.3350	25.276	97.417	112.90	2.5722
#1	.00042	.01075	.00147	-.00180	.00006	-.00001	-.00324	-.00009
#2	-.00028	-.00341	.00015	-.00184	.00009	-.00007	-.00036	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0151**	**.00027**	**.00001**	**-.00005**	**-.00028**	**-.08229**	**-.00040**	**.00101**
Stddev	.0111	.00004	.00012	.00003	.00029	.02028	.00116	.00189
%RSD	73.75	15.372	1248.0	59.356	104.03	24.649	292.94	187.85
#1	-.0229	.00024	-.00008	-.00007	-.00007	-.06795	.00042	.00234
#2	-.0072	.00030	.00010	-.00003	-.00049	-.09663	-.00122	-.00033
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00003**	**.00027**	**.00241**	**-.00026**	z *****	**.00033**	**.0059**	**-.00023**
Stddev	.00000	.00123	.00318	.00001	-----	.00011	.0018	.00018
%RSD	15.733	459.85	131.98	5.1253	-----	31.787	29.93	76.230
#1	.00003	.00113	.00465	-.00025	z 136.7	.00041	.0046	-.00011
#2	.00002	-.00060	.00016	-.00027	z 137.4	.00026	.0071	-.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 14:42:12 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	**-.00767**	**.00036**	**-.00000**	**.0207**	**-.00011**	**-.00078**	**-.00014**
Stddev	.00039	.00338	.00055	.00006	.0112	.00015	.00048	.00018
%RSD	9.6450	43.998	155.65	3072.4	53.84	136.43	61.166	127.77
#1	.00428	-.00529	-.00004	-.00005	.0286	-.00022	-.00112	-.00027
#2	.00374	-.01006	.00075	.00004	.0128	-.00000	-.00044	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00004**	**-.0002**
Stddev	.00024	.0003
%RSD	617.69	166.3
#1	.00021	.0000
#2	-.00013	-.0004
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3765.5**	**2891.4**	**60686.**	**3162.5**
Stddev	1.0	3.1	179.	.3
%RSD	.02777	.10722	.29539	.01082
#1	3766.3	2889.2	60812.	3162.3
#2	3764.8	2893.6	60559.	3162.8

Sample Name: CCVL-6603764 Acquired: 8/10/2021 14:46:03 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00620**	**.19448**	**.01478**	**.01682**	**.00217**	**.00192**	**.48752**
Stddev	.00028	.01357	.00021	.00045	.00002	.00002	.00241
%RSD	4.4988	6.9800	1.4470	2.6493	1.1411	1.1274	.49340
#1	.00600	.18488	.01493	.01713	.00215	.00191	.48922
#2	.00639	.20408	.01462	.01650	.00219	.00194	.48582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**.0248**	**.00412**	**.00407**	**.00954**	**.04639**	**.37783**
Stddev	.00003	.0030	.00009	.00010	.00017	.00236	.01980
%RSD	1.3707	12.23	2.1208	2.4043	1.7462	5.0856	5.2412
#1	.00184	.0227	.00419	.00400	.00965	.04806	.39183
#2	.00188	.0269	.00406	.00414	.00942	.04472	.36383
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02677**	**.19126**	**.00318**	F **.00434**	**1.0013**	**.00953**	z *****
Stddev	.00084	.00504	.00002	.00013	.0051	.00000	-----
%RSD	3.1253	2.6339	.70289	3.0486	.50605	.02945	-----
#1	.02618	.19482	.00319	.00424	1.0049	.00953	z 136.5
#2	.02736	.18770	.00316	.00443	.99770	.00953	z 137.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 14:46:03 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00932	.1903	.01929	.02378	.46376	.00895	.00486
Stddev	.00075	.0002	.00099	.00197	.01406	.00034	.00005
%RSD	8.0219	.1260	5.1318	8.2889	3.0318	3.8550	.94918
#1	.00984	.1902	.01999	.02238	.45382	.00919	.00483
#2	.00879	.1905	.01859	.02517	.47370	.00870	.00489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0022	.00465	.01789	.00489	.00962	.0003
Stddev	.0028	.00008	.00052	.00014	.00015	.0003
%RSD	126.0	1.8148	2.8912	2.8478	1.5938	111.6
#1	.0041	.00459	.01753	.00499	.00951	.0001
#2	.0002	.00471	.01826	.00479	.00973	.0005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3752.9	2900.7	60757.	3192.5
Stddev	2.1	.3	167.	2.0
%RSD	.05609	.01113	.27457	.06222
#1	3751.4	2900.4	60875.	3191.1
#2	3754.4	2900.9	60639.	3194.0

Sample Name: 480-187696-C-1-B Acquired: 8/10/2021 14:49:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00117	43.771	.01630	.02875	.17592
Stddev	.00040	.077	.00185	.00062	.00002
%RSD	34.494	.17484	11.335	2.1681	.01323
#1	.00088	43.716	.01499	.02919	.17593
#2	.00145	43.825	.01760	.02831	.17590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.00821	40.463	.00550	.1036	.17503
Stddev	.00013	.060	.00022	.0050	.00011
%RSD	1.6423	.14781	3.9177	4.829	.06380
#1	.00830	40.421	.00566	.1001	.17495
#2	.00811	40.505	.00535	.1071	.17511
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.03948	.22920	24.208	6.4014	.23292
Stddev	.00029	.00052	.035	.0406	.00017
%RSD	.73666	.22774	.14420	.63501	.07154
#1	.03928	.22956	24.233	6.4301	.23304
#2	.03969	.22883	24.184	6.3726	.23280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187696-C-1-B Acquired: 8/10/2021 14:49:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**42.508**	**7.3690**	**-.00614**	**1.3683**	**.37575**
Stddev	.064	.0058	.00012	.0039	.00053
%RSD	.15108	.07825	1.8785	.28411	.14106
#1	42.463	7.3731	-.00623	1.3710	.37612
#2	42.554	7.3650	-.00606	1.3655	.37537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.08392**	F **138.2**	**-.00139**	**.00048**
Stddev	-----	.00028	.4	.00140	.00026
%RSD	-----	.33020	.2551	100.95	55.210
#1	z 458.4	.08372	138.4	-.00238	.00066
#2	z 460.7	.08412	137.9	-.00040	.00029
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.983**	**.00144**	**.13827**	**.0321**	**.14607**
Stddev	.092	.00099	.00018	.0056	.00212
%RSD	.24907	68.481	.13005	17.48	1.4490
#1	37.048	.00214	.13840	.0282	.14457
#2	36.917	.00074	.13814	.0361	.14756
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187696-C-1-B Acquired: 8/10/2021 14:49:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00253**	**.02656**	**1.6428**	**.0072**
Stddev	.00110	.00024	.0043	.0015
%RSD	43.572	.88971	.26454	20.84
#1	-.00175	.02640	1.6398	.0082
#2	-.00331	.02673	1.6459	.0061
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3417.4**	**3125.4**	**65287.**	**3579.1**
Stddev	6.5	12.0	13.	11.7
%RSD	.19094	.38321	.02034	.32552
#1	3412.8	3116.9	65277.	3587.3
#2	3422.1	3133.9	65296.	3570.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.474%	109.51%	108.20%	114.73%
Range				

Sample Name: 480-187699-C-6-C Acquired: 8/10/2021 14:53:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00169**	**.11616**	**.03329**	**.10374**	**.09829**
Stddev	.00007	.01416	.00184	.00010	.00015
%RSD	4.2173	12.188	5.5209	.09787	.15616
#1	.00174	.10615	.03199	.10367	.09840
#2	.00164	.12617	.03459	.10381	.09818
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**180.63**	**.00034**	**-.0223**	**.00221**
Stddev	.00000	.57	.00016	.0298	.00010
%RSD	9.9023	.31738	46.879	133.4	4.3897
#1	-.00003	181.03	.00023	-.0013	.00228
#2	-.00003	180.22	.00045	-.0434	.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00268**	**.00584**	**36.380**	**11.113**	**.00432**
Stddev	.00024	.00062	.101	.004	.00125
%RSD	9.1444	10.528	.27848	.03487	28.988
#1	.00251	.00541	36.451	11.116	.00520
#2	.00285	.00628	36.308	11.111	.00343
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187699-C-6-C Acquired: 8/10/2021 14:53:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.162**	**24.754**	**-.00879**	**12.521**	**.00370**
Stddev	.128	.061	.00010	.032	.00004
%RSD	.28413	.24540	1.0809	.25735	1.1492
#1	45.071	24.797	-.00886	12.544	.00367
#2	45.253	24.711	-.00872	12.498	.00373
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00539**	**65.75**	**-.00510**	**-.00272**
Stddev	-----	.00048	.12	.00173	.00073
%RSD	-----	8.8469	.1869	33.979	26.758
#1	z 293.2	.00505	65.84	-.00632	-.00221
#2	z 293.2	.00572	65.66	-.00387	-.00324
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3215**	**-.00048**	**.29963**	**.0288**	**-.00295**
Stddev	.0436	.00060	.00106	.0070	.00006
%RSD	.46730	124.93	.35295	24.35	2.1057
#1	9.2907	-.00006	.30038	.0337	-.00299
#2	9.3523	-.00090	.29888	.0238	-.00291
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187699-C-6-C Acquired: 8/10/2021 14:53:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.01136**	**.00054**	**.00315**	**-.0000**
Stddev	.00067	.00017	.00063	.0009
%RSD	5.9215	31.130	19.971	11200.
#1	-.01089	.00042	.00360	-.0006
#2	-.01184	.00066	.00271	.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3226.5**	**2703.1**	**56391.**	**3169.6**
Stddev	.7	3.3	17.	.3
%RSD	.02268	.12378	.03045	.01058
#1	3227.0	2705.5	56379.	3169.8
#2	3226.0	2700.8	56404.	3169.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.419%	94.714%	93.454%	101.60%
Range				

Sample Name: 480-187699-C-7-C Acquired: 8/10/2021 14:57:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00140**	**.14209**	**.06924**	**2.9039**	**.74993**
Stddev	.00033	.00077	.00102	.0029	.00052
%RSD	23.495	.53929	1.4803	.09819	.06884
#1	.00117	.14155	.06996	2.9018	.74956
#2	.00163	.14263	.06851	2.9059	.75029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**136.43**	**.00021**	**.0164**	**.03387**
Stddev	.00003	.57	.00014	.0353	.00017
%RSD	521.06	.41524	67.856	215.5	.49373
#1	.00002	136.03	.00011	-.0086	.03399
#2	-.00003	136.83	.00031	.0414	.03375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06914**	**.00771**	**6.6897**	**345.62**	**.01099**
Stddev	.00032	.00014	.0262	3.92	.00042
%RSD	.45740	1.7593	.39170	1.1343	3.8016
#1	.06937	.00781	6.6712	348.39	.01070
#2	.06892	.00762	6.7082	342.85	.01129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187699-C-7-C Acquired: 8/10/2021 14:57:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**53.724**	**7.6702**	**-.00318**	F **983.81**	**.21186**
Stddev	.003	.0476	.00022	1.19	.00025
%RSD	.00645	.62029	6.8555	.12139	.11923
#1	53.721	7.7038	-.00333	982.96	.21168
#2	53.726	7.6366	-.00302	984.65	.21204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00430**	**73.39**	**-.00102**	**-.00423**
Stddev	-----	.00083	.12	.00048	.00070
%RSD	-----	19.174	.1595	46.999	16.536
#1	z 849.5	.00489	73.31	-.00136	-.00472
#2	z 849.3	.00372	73.47	-.00068	-.00373
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.725**	**.01534**	**.55897**	**.0086**	**.02194**
Stddev	.057	.00016	.00076	.0079	.00025
%RSD	.53281	1.0427	.13588	91.29	1.1590
#1	10.684	.01545	.55844	.0142	.02176
#2	10.765	.01523	.55951	.0031	.02212
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187699-C-7-C Acquired: 8/10/2021 14:57:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00288**	**.04261**	**.01115**	**.1363**
Stddev	.00100	.00042	.00059	.0003
%RSD	34.575	.97621	5.3357	.2385
#1	-.00218	.04290	.01073	.1365
#2	-.00358	.04231	.01157	.1360
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2736.3**	**2489.5**	**50118.**	**3120.7**
Stddev	2.1	2.2	146.	12.6
%RSD	.07784	.09030	.29179	.40357
#1	2734.8	2491.0	50015.	3129.6
#2	2737.8	2487.9	50222.	3111.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.441%	87.227%	83.058%	100.04%
Range				

Sample Name: 480-187692-C-9-D Acquired: 8/10/2021 15:01:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.06133**	**-.00073**	**.04353**	**.05128**
Stddev	.00009	.00545	.00231	.00008	.00011
%RSD	16.694	8.8855	317.58	.17259	.21975
#1	.00060	.06519	.00091	.04348	.05120
#2	.00047	.05748	-.00236	.04359	.05136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**19.102**	**.00014**	**.0258**	**.00044**
Stddev	.00004	.066	.00001	.0068	.00005
%RSD	17.213	.34370	5.5457	26.41	11.424
#1	.00025	19.149	.00014	.0306	.00041
#2	.00019	19.056	.00015	.0210	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00034**	**.49972**	**1.8960**	**.00045**
Stddev	.00032	.00028	.00706	.0256	.00038
%RSD	202.16	82.642	1.4122	1.3510	85.344
#1	-.00007	.00054	.50471	1.9141	.00072
#2	.00038	.00014	.49473	1.8779	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187692-C-9-D Acquired: 8/10/2021 15:01:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4632**	**2.2197**	**-.00767**	**16.943**	**.00450**
Stddev	.0188	.0035	.00014	.040	.00012
%RSD	.42100	.15938	1.7891	.23422	2.6361
#1	4.4500	2.2172	-.00776	16.971	.00442
#2	4.4765	2.2222	-.00757	16.914	.00459
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00237**	**6.557**	**-.00076**	**-.00054**
Stddev	-----	.00023	.012	.00120	.00007
%RSD	-----	9.5815	.1776	158.27	13.107
#1	z 162.8	.00220	6.548	.00009	-.00049
#2	z 163.6	.00253	6.565	-.00160	-.00059
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4208**	**-.00034**	**.14759**	**.0052**	**-.00053**
Stddev	.0274	.00059	.00020	.0032	.00016
%RSD	.50523	172.21	.13270	61.82	30.425
#1	5.4402	-.00076	.14773	.0075	-.00042
#2	5.4015	.00007	.14745	.0029	-.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187692-C-9-D Acquired: 8/10/2021 15:01:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00105**	**.00012**	**.00626**	**.0016**
Stddev	.00092	.00007	.00007	.0002
%RSD	87.594	61.762	1.1559	10.79
#1	-.00040	.00017	.00621	.0015
#2	-.00170	.00006	.00631	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3574.3**	**2854.6**	**59614.**	**3208.3**
Stddev	2.9	6.5	105.	12.2
%RSD	.08062	.22829	.17608	.37969
#1	3576.4	2859.2	59688.	3199.7
#2	3572.3	2849.9	59540.	3216.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.628%	100.02%	98.795%	102.84%
Range				

Sample Name: 480-187807-J-2-B Acquired: 8/10/2021 15:05:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.21033**	**.17592**	**7.6233**	**.47599**
Stddev	.00041	.00881	.00061	.0105	.00030
%RSD	127.59	4.1892	.34911	.13771	.06241
#1	-.00061	.21656	.17548	7.6307	.47578
#2	-.00003	.20410	.17635	7.6159	.47620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**196.64**	**.00040**	**-.0041**	**.00756**
Stddev	.00006	.34	.00000	.0071	.00004
%RSD	2042.0	.17452	.66827	170.0	.56767
#1	-.00004	196.88	.00040	-.0091	.00753
#2	.00004	196.39	.00039	.0008	.00759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05929**	**.01711**	**9.9753**	**165.07**	**.03418**
Stddev	.00074	.00027	.0229	.93	.00100
%RSD	1.2481	1.5770	.22912	.56296	2.9263
#1	.05982	.01730	9.9914	165.73	.03348
#2	.05877	.01692	9.9591	164.41	.03489
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187807-J-2-B Acquired: 8/10/2021 15:05:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**69.821**	**3.7547**	**-.00258**	**464.17**	**.04687**
Stddev	.089	.0046	.00017	.09	.00016
%RSD	.12693	.12291	6.7445	.01983	.34554
#1	69.884	3.7580	-.00246	464.24	.04676
#2	69.759	3.7514	-.00270	464.11	.04699
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00602**	**15.40**	**-.00033**	**-.00514**
Stddev	-----	.00071	.03	.00177	.00247
%RSD	-----	11.852	.2018	543.08	48.029
#1	z 750.3	.00652	15.43	.00092	-.00688
#2	z 748.7	.00551	15.38	-.00157	-.00339
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.665**	**.00570**	**1.0801**	**.0177**	**.06562**
Stddev	.069	.00064	.0009	.0054	.00014
%RSD	.44304	11.215	.08463	30.81	.21582
#1	15.715	.00616	1.0808	.0138	.06572
#2	15.616	.00525	1.0795	.0215	.06552
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187807-J-2-B Acquired: 8/10/2021 15:05:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00196**	**.03033**	**.05259**	**.0116**
Stddev	.00037	.00002	.00082	.0002
%RSD	18.684	.06633	1.5515	2.073
#1	-.00170	.03035	.05317	.0118
#2	-.00222	.03032	.05201	.0115
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2889.8**	**2545.7**	**52119.**	**3130.3**
Stddev	1.3	4.1	75.	9.8
%RSD	.04580	.15987	.14423	.31276
#1	2890.7	2542.8	52066.	3123.4
#2	2888.8	2548.6	52172.	3137.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.505%	89.197%	86.374%	100.34%
Range				

Sample Name: 480-187807-H-3-B Acquired: 8/10/2021 15:09:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00118**	**1.7827**	**.16946**	**.61463**	**.37868**
Stddev	.00069	.0127	.00168	.00092	.00056
%RSD	58.888	.71064	.98913	.14966	.14703
#1	.00069	1.7917	.16827	.61528	.37907
#2	.00167	1.7738	.17064	.61398	.37829
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**157.82**	**.00042**	**-.0002**	**.02098**
Stddev	.00010	.51	.00002	.0189	.00006
%RSD	199.57	.32098	5.8735	8172.	.29444
#1	.00012	158.17	.00040	-.0136	.02094
#2	-.00002	157.46	.00044	.0132	.02103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12240**	**.02273**	**5.1589**	**295.92**	**.01365**
Stddev	.00078	.00059	.0156	2.32	.00001
%RSD	.63484	2.6061	.30142	.78282	.08873
#1	.12185	.02231	5.1699	297.56	.01364
#2	.12295	.02315	5.1479	294.28	.01366
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187807-H-3-B Acquired: 8/10/2021 15:09:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**106.74**	**.88223**	**.00765**	**68.898**	**.17548**
Stddev	.03	.00010	.00012	.309	.00064
%RSD	.03005	.01169	1.5872	.44853	.36239
#1	106.77	.88216	.00774	69.117	.17593
#2	106.72	.88230	.00756	68.680	.17503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00508**	F **263.9**	**-.00315**	**-.00185**
Stddev	-----	.00045	.0	.00041	.00240
%RSD	-----	8.7996	.0070	13.058	129.77
#1	z 990.1	.00476	263.9	-.00286	-.00015
#2	z 989.6	.00540	263.9	-.00344	-.00354
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.7615**	**.00205**	**.42812**	**.0044**	**1.1567**
Stddev	.0257	.00044	.00074	.0090	.0018
%RSD	.44554	21.594	.17344	201.8	.15844
#1	5.7434	.00236	.42759	-.0019	1.1580
#2	5.7797	.00174	.42864	.0108	1.1554
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187807-H-3-B Acquired: 8/10/2021 15:09:18 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00119**	**.32536**	**.02025**	**.1383**
Stddev	.00097	.00021	.00072	.0009
%RSD	81.740	.06572	3.5412	.6476
#1	-.00188	.32551	.01975	.1377
#2	-.00050	.32521	.02076	.1390
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3000.8**	**2625.6**	**53861.**	**3137.8**
Stddev	.0	3.2	82.	8.7
%RSD	.00111	.12172	.15160	.27868
#1	3000.8	2623.3	53919.	3131.6
#2	3000.8	2627.9	53803.	3144.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.444%	91.997%	89.261%	100.58%
Range				

Sample Name: 480-187983-A-1-A@5 Acquired: 8/10/2021 15:13:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.09410**	**.00037**	**.06172**	**.00550**
Stddev	.00026	.00743	.00079	.00094	.00001
%RSD	111.08	7.8962	212.68	1.5196	.12723
#1	.00042	.09935	-.00019	.06106	.00551
#2	.00005	.08885	.00093	.06238	.00550
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**172.54**	**-.00008**	**.0045**	**.00001**
Stddev	.00000	.96	.00017	.0177	.00013
%RSD	14.018	.55677	225.95	396.2	1755.0
#1	-.00002	171.86	-.00020	.0170	.00010
#2	-.00002	173.22	.00005	-.0081	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00138**	**.09065**	**212.33**	**.14660**
Stddev	.00006	.00002	.00378	.93	.00142
%RSD	99.201	1.1314	4.1745	.44020	.96719
#1	-.00002	.00137	.09332	212.99	.14761
#2	-.00010	.00139	.08797	211.66	.14560
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187983-A-1-A@5 Acquired: 8/10/2021 15:13:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.15260**	**.00956**	**-.00611**	**338.48**	**-.00019**
Stddev	.00170	.00004	.00038	.21	.00005
%RSD	1.1117	.43241	6.2444	.06091	24.283
#1	.15379	.00954	-.00638	338.33	-.00023
#2	.15140	.00959	-.00584	338.62	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00076**	F **607.1**	**-.00080**	**-.00395**
Stddev	-----	.00066	1.7	.00154	.00182
%RSD	-----	86.990	.2814	193.14	45.990
#1	z 228.2	-.00029	608.3	-.00188	-.00524
#2	z 227.5	-.00123	605.9	.00029	-.00267
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03283**	**.81514**	**3.0913**	**.0135**	**.00126**
Stddev	.01152	.00372	.0007	.0083	.00027
%RSD	35.075	.45646	.02144	61.56	21.894
#1	.04098	.81778	3.0917	.0193	.00145
#2	.02469	.81251	3.0908	.0076	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187983-A-1-A@5 Acquired: 8/10/2021 15:13:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00216**	**-.00019**	**.00028**	**.0012**
Stddev	.00063	.00005	.00056	.0010
%RSD	29.259	28.233	202.70	88.04
#1	-.00261	-.00023	.00067	.0019
#2	-.00171	-.00015	-.00012	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2948.4**	**2562.9**	**51957.**	**3087.4**
Stddev	.2	1.2	54.	3.5
%RSD	.00782	.04746	.10446	.11473
#1	2948.5	2562.1	51918.	3089.9
#2	2948.2	2563.8	51995.	3084.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.056%	89.801%	86.105%	98.968%
Range				

Sample Name: 480-187855-E-12-A@10 Acquired: 8/10/2021 15:17:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.01119**	**-.00162**	**.06436**	**.39927**
Stddev	.00011	.02478	.00084	.00045	.00263
%RSD	33.121	221.37	51.844	.70183	.65800
#1	-.00027	-.00633	-.00102	.06468	.39741
#2	-.00043	.02872	-.00221	.06404	.40113
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**36.759**	**-.00002**	**-.0073**	**.00057**
Stddev	.00002	.119	.00000	.0111	.00015
%RSD	31.358	.32399	22.287	151.8	27.055
#1	-.00009	36.843	-.00003	-.0151	.00068
#2	-.00006	36.675	-.00002	.0005	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00060**	**.33541**	**7.6318**	**.54054**
Stddev	.00009	.00036	.00514	.0066	.00075
%RSD	75.937	60.644	1.5318	.08618	.13905
#1	.00018	.00034	.33177	7.6365	.54107
#2	.00005	.00086	.33904	7.6272	.54001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187855-E-12-A@10 Acquired: 8/10/2021 15:17:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3854**	**.10654**	**-.00724**	**393.68**	**.00032**
Stddev	.0052	.00020	.00001	2.24	.00025
%RSD	.07046	.18387	.11994	.57010	78.089
#1	7.3891	.10667	-.00724	395.26	.00049
#2	7.3818	.10640	-.00725	392.09	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00001**	**.8138**	**-.00009**	**-.00709**
Stddev	-----	.00083	.0019	.00029	.00421
%RSD	-----	7866.8	.2296	316.96	59.462
#1	z 160.0	-.00058	.8151	-.00030	-.00411
#2	z 160.1	.00060	.8125	.00011	-.01007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.52482**	**.00228**	**3.0006**	**.0129**	**-.00001**
Stddev	.00359	.00135	.0151	.0136	.00012
%RSD	.68330	59.282	.50332	105.1	1163.0
#1	.52736	.00324	3.0113	.0225	-.00009
#2	.52229	.00133	2.9899	.0033	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187855-E-12-A@10 Acquired: 8/10/2021 15:17:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00022**	**.00201**	**.0001**
Stddev	.00040	.00041	.00001	.0002
%RSD	669.07	186.61	.31235	124.6
#1	.00022	-.00051	.00200	.0003
#2	-.00034	.00007	.00201	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3089.1**	**2680.7**	**53790.**	**3112.0**
Stddev	1.2	2.3	43.	22.8
%RSD	.03768	.08415	.07936	.73258
#1	3089.9	2682.3	53760.	3095.9
#2	3088.3	2679.1	53820.	3128.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.782%	93.929%	89.143%	99.756%
Range				

Sample Name: 480-187857-A-3-A@5 Acquired: 8/10/2021 15:20:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00047**	**.00365**	**-.00084**	**.00975**	**1.2186**
Stddev	.00010	.00137	.00204	.00027	.0012
%RSD	22.118	37.594	243.41	2.8152	.09666
#1	-.00054	.00462	-.00228	.00955	1.2194
#2	-.00039	.00268	.00060	.00994	1.2177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**113.27**	**.00010**	**.0091**	**.00026**
Stddev	.00002	.63	.00010	.0169	.00012
%RSD	14.766	.55935	100.93	185.7	45.272
#1	-.00010	113.72	.00003	-.0029	.00018
#2	-.00012	112.83	.00017	.0211	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00080**	**-.00027**	**47.376**	**206.82**	**.00984**
Stddev	.00022	.00004	.094	1.06	.00001
%RSD	28.063	14.486	.19737	.51035	.13435
#1	-.00096	-.00029	47.310	207.56	.00985
#2	-.00064	-.00024	47.442	206.07	.00983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187857-A-3-A@5 Acquired: 8/10/2021 15:20:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**30.564**	**.28017**	**-.00812**	**5.3751**	**.00117**
Stddev	.123	.00088	.00010	.0202	.00029
%RSD	.40333	.31268	1.2643	.37622	24.480
#1	30.477	.27955	-.00805	5.3894	.00097
#2	30.651	.28079	-.00819	5.3608	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00157**	**.2445**	**-.00282**	**-.00266**
Stddev	-----	.00009	.0048	.00012	.00062
%RSD	-----	5.9096	1.979	4.4227	23.301
#1	z 302.6	.00150	.2411	-.00291	-.00222
#2	z 303.4	.00163	.2479	-.00273	-.00309
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8823**	**.00041**	**1.1577**	**.0370**	**.00031**
Stddev	.0100	.00028	.0020	.0013	.00010
%RSD	.53055	69.451	.17145	3.388	30.983
#1	1.8753	.00061	1.1591	.0361	.00038
#2	1.8894	.00021	1.1563	.0378	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187857-A-3-A@5 Acquired: 8/10/2021 15:20:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00137**	**-.00074**	**.00072**	**.0018**
Stddev	.00025	.00014	.00010	.0004
%RSD	18.279	19.208	14.314	21.62
#1	-.00155	-.00084	.00079	.0020
#2	-.00120	-.00064	.00065	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3158.9**	**2686.2**	**55862.**	**3201.4**
Stddev	7.0	4.0	46.	15.1
%RSD	.22145	.14783	.08257	.47056
#1	3154.0	2683.4	55830.	3190.7
#2	3163.9	2689.0	55895.	3212.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.630%	94.120%	92.577%	102.62%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 15:24:53 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94671**	**48.144**	**.97953**	**.97156**	**1.0046**	**.98645**	**48.302**	**.95108**
Stddev	.00099	.060	.00206	.00049	.0003	.00191	.157	.00052
%RSD	.10506	.12514	.20998	.04994	.02931	.19412	.32446	.05444
#1	.94601	48.187	.97807	.97190	1.0048	.98510	48.191	.95145
#2	.94741	48.102	.98098	.97121	1.0044	.98781	48.413	.95071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9888**	**1.0006**	**.97505**	**.97726**	**48.771**	**48.797**	**.94723**	**47.418**
Stddev	.0073	.0003	.00406	.00182	.446	.006	.00015	.131
%RSD	.7358	.02943	.41643	.18573	.91353	.01325	.01606	.27576
#1	.9836	1.0008	.97218	.97597	48.456	48.802	.94712	47.326
#2	.9939	1.0004	.97792	.97854	49.086	48.793	.94733	47.511
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97845**	**.99799**	**49.151**	**.98500**	z *****	**.99649**	**24.82**	**.96210**
Stddev	.00281	.00493	.011	.00112	-----	.00056	.01	.00701
%RSD	.28685	.49438	.02325	.11420	-----	.05581	.0266	.72825
#1	.97646	.99450	49.142	.98420	z 9207.	.99689	24.82	.95715
#2	.98043	1.0015	49.159	.98579	z 9192.	.99610	24.81	.96706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 15:24:53 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96116	9.4919	1.0030	.97274	.9636	.98223	.99486	.98446
Stddev	.00232	.0301	.0007	.00026	.0171	.00179	.00260	.00210
%RSD	.24106	.31743	.07008	.02650	1.769	.18185	.26095	.21362
#1	.95953	9.4705	1.0035	.97292	.9516	.98096	.99669	.98297
#2	.96280	9.5132	1.0025	.97256	.9757	.98349	.99302	.98594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0106	.9401
Stddev	.0033	.0066
%RSD	.33071	.7055
#1	1.0082	.9354
#2	1.0130	.9447
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3235.8	2795.8	56651.	3158.5
Stddev	2.8	2.8	17.	10.8
%RSD	.08634	.10151	.02913	.34104
#1	3237.8	2797.8	56639.	3166.1
#2	3233.8	2793.8	56663.	3150.8

Sample Name: CCB-6597963 Acquired: 8/10/2021 15:28:30 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00166**	**.00182**	**-.00013**	**.00007**	**-.00011**	**.00210**	**-.00013**
Stddev	.00028	.01050	.00058	.00002	.00001	.00008	.00001	.00010
%RSD	90.278	632.99	32.045	13.628	16.089	72.255	.34516	75.380
#1	.00011	-.00576	.00141	-.00014	.00008	-.00017	.00211	-.00006
#2	.00051	.00908	.00224	-.00011	.00007	-.00005	.00210	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071**	**.00011**	**.00008**	**.00024**	**.00506**	**.00707**	**-.00042**	**.00094**
Stddev	.0029	.00009	.00021	.00011	.00079	.00097	.00055	.00254
%RSD	41.53	82.940	263.17	46.378	15.675	13.781	130.37	271.79
#1	.0050	.00005	-.00007	.00032	.00562	.00776	-.00080	-.00086
#2	.0091	.00018	.00023	.00016	.00450	.00638	-.00003	.00274
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00004**	**.00025**	**.02114**	**-.00027**	z *****	**.00073**	**.0166**	**-.00081**
Stddev	.00007	.00160	.00289	.00016	-----	.00020	.0042	.00100
%RSD	163.09	630.08	13.664	59.856	-----	27.430	25.45	123.37
#1	.00009	.00138	.02318	-.00016	z 137.1	.00059	.0195	-.00010
#2	-.00001	-.00088	.01909	-.00039	z 137.1	.00087	.0136	-.00152
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 15:28:30 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00354**	**.01260**	**-.00051**	**.00001**	**.0039**	**-.00017**	**-.00005**	**-.00024**
Stddev	.00190	.00540	.00003	.00001	.0152	.00019	.00026	.00029
%RSD	53.676	42.865	5.0564	97.714	390.6	114.82	475.64	119.34
#1	.00220	.00878	-.00053	.00002	-.0069	-.00030	-.00024	-.00044
#2	.00489	.01642	-.00049	.00000	.0146	-.00003	.00013	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00042**	**.0008**
Stddev	.00012	.0008
%RSD	28.485	104.7
#1	.00051	.0002
#2	.00034	.0014
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3775.5**	**2915.7**	**60899.**	**3162.5**
Stddev	2.7	2.6	214.	3.2
%RSD	.07226	.08942	.35069	.10077
#1	3777.5	2913.9	61050.	3164.8
#2	3773.6	2917.6	60748.	3160.3

Sample Name: CCVL-6603764 Acquired: 8/10/2021 15:32:22 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00563**	**.19626**	**.01364**	**.01760**	**.00219**	**.00192**	**.48617**
Stddev	.00031	.02560	.00206	.00012	.00001	.00001	.00022
%RSD	5.5550	13.044	15.114	.69823	.64431	.60759	.04456
#1	.00541	.21436	.01510	.01751	.00218	.00191	.48632
#2	.00585	.17816	.01218	.01769	.00220	.00193	.48601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.0217**	**.00386**	**.00384**	**.00933**	**.04612**	**.40174**
Stddev	.00010	.0022	.00001	.00015	.00059	.00010	.02466
%RSD	5.7988	10.18	.13374	3.7962	6.2752	.20967	6.1370
#1	.00166	.0201	.00385	.00374	.00892	.04605	.38431
#2	.00180	.0232	.00386	.00395	.00975	.04619	.41918
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02627**	**.18839**	**.00315**	F **.00463**	**1.0028**	**.00966**	z *****
Stddev	.00004	.00249	.00001	.00022	.0050	.00004	-----
%RSD	.15817	1.3231	.25735	4.7114	.49918	.40171	-----
#1	.02630	.18662	.00314	.00479	1.0064	.00963	z 137.7
#2	.02624	.19015	.00315	.00448	.99930	.00969	z 137.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 15:32:22 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00983**	**.2032**	**.01840**	**.02373**	**.44041**	**.00879**	**.00478**
Stddev	.00101	.0015	.00036	.00123	.01855	.00058	.00005
%RSD	10.269	.7550	1.9725	5.1950	4.2112	6.5543	1.0506
#1	.01054	.2021	.01814	.02460	.42729	.00920	.00482
#2	.00911	.2043	.01866	.02286	.45352	.00839	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0221**	**.00472**	**.01924**	**.00454**	**.00973**	**.0010**
Stddev	.0067	.00013	.00022	.00025	.00034	.0003
%RSD	30.44	2.6915	1.1361	5.4620	3.4698	36.01
#1	.0269	.00463	.01939	.00436	.00997	.0012
#2	.0174	.00481	.01908	.00472	.00949	.0007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3751.2**	**2909.6**	**60779.**	**3184.2**
Stddev	4.3	1.6	248.	5.6
%RSD	.11413	.05645	.40851	.17644
#1	3748.2	2908.5	60955.	3188.2
#2	3754.3	2910.8	60604.	3180.2

Sample Name: MB 480-592077/1-A Acquired: 8/10/2021 15:36:12 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.03504**	**-.00178**	**.00177**	**.00016**
Stddev	.00018	.01106	.00017	.00002	.00000
%RSD	1985.9	31.554	9.2847	.98008	2.8580
#1	.00012	.02722	-.00190	.00178	.00016
#2	-.00014	.04286	-.00166	.00176	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.05646**	**-.00008**	**-.0106**	**.00022**
Stddev	.00000	.00184	.00000	.0044	.00015
%RSD	2.5304	3.2534	3.0253	41.32	66.863
#1	-.00009	.05776	-.00009	-.0075	.00011
#2	-.00009	.05516	-.00008	-.0137	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00016**	**-.00358**	**-.10044**	**.00116**
Stddev	.00020	.00005	.00247	.02883	.00012
%RSD	140.56	31.967	69.089	28.707	10.599
#1	.00000	-.00019	-.00183	-.08005	.00107
#2	.00029	-.00012	-.00532	-.12083	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592077/1-A Acquired: 8/10/2021 15:36:12 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00456**	**.00059**	F **-.00694**	**.01315**	**-.00001**
Stddev	.00128	.00004	.00011	.00561	.00003
%RSD	28.155	7.2126	1.5938	42.660	176.04
#1	.00365	.00056	-.00686	.00919	.00000
#2	.00547	.00062	-.00702	.01712	-.00003
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.00500		
Low Limit			-.00500		

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00018**	**.0201**	**-.00053**	**-.00227**
Stddev	-----	.00000	.0010	.00097	.00023
%RSD	-----	2.2944	4.960	183.01	10.170
#1	z 136.2	.00017	.0208	.00016	-.00243
#2	z 136.1	.00018	.0194	-.00122	-.00211
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01122**	**-.00025**	**.00028**	**.0029**	**-.00025**
Stddev	.01154	.00019	.00001	.0006	.00008
%RSD	102.84	73.862	2.2304	20.42	30.854
#1	-.00306	-.00012	.00028	.0033	-.00030
#2	-.01938	-.00039	.00029	.0025	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592077/1-A Acquired: 8/10/2021 15:36:12 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00072**	**-.00010**	**.00227**	**-.0004**
Stddev	.00020	.00019	.00015	.0001
%RSD	28.387	187.77	6.8213	16.33
#1	-.00057	.00003	.00237	-.0004
#2	-.00086	-.00024	.00216	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3788.7**	**2913.3**	**61426.**	**3214.3**
Stddev	2.6	2.1	60.	11.4
%RSD	.06764	.07275	.09759	.35423
#1	3786.9	2911.8	61468.	3206.2
#2	3790.5	2914.8	61383.	3222.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.30%	102.08%	101.80%	103.03%
Range				

Sample Name: LCS 480-592077/2-A Acquired: 8/10/2021 15:40:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04522**	**9.7023**	F **.40914**	**.19618**	**.22133**
Stddev	.00024	.0132	.00057	.00025	.00013
%RSD	.51984	.13619	.13928	.12636	.05731
#1	.04506	9.6930	.40873	.19600	.22142
#2	.04539	9.7117	.40954	.19636	.22124
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.23000		
Low Limit			.17000		

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.41151**	F **19.521**	F **.39254**	**-.0063**	F **.39192**
Stddev	.00066	.005	.00011	.0126	.00064
%RSD	.15935	.02677	.02809	199.1	.16375
#1	.41105	19.517	.39247	.0026	.39147
#2	.41198	19.525	.39262	-.0152	.39238
Check ?	Chk Fail	Chk Fail	Chk Fail	None	Chk Fail
High Limit	.23000	11.500	.23000		.23000
Low Limit	.17000	8.5000	.17000		.17000

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **.38588**	F **.39450**	F **19.082**	**9.8225**	**.19100**
Stddev	.00053	.00005	.053	.0317	.00034
%RSD	.13617	.01358	.27673	.32266	.17869
#1	.38551	.39446	19.045	9.8001	.19124
#2	.38625	.39454	19.119	9.8449	.19076
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Pass
High Limit	.23000	.23000	11.500		
Low Limit	.17000	.17000	8.5000		

Sample Name: LCS 480-592077/2-A Acquired: 8/10/2021 15:40:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	F **18.910**	F **.39715**	F **.41518**	**10.026**	F **.39183**
Stddev	.078	.00162	.00180	.035	.00008
%RSD	.41347	.40817	.43357	.34844	.02147
#1	18.855	.39601	.41390	10.002	.39177
#2	18.965	.39830	.41645	10.051	.39189
Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Pass	Chk Fail
High Limit	11.500	.23000	.23000		.23000
Low Limit	8.5000	.17000	.17000		.17000

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	F **.40020**	**9.969**	F **.42512**	F **.38663**
Stddev	-----	.00171	.010	.00174	.00019
%RSD	-----	.42757	.1018	.40994	.04810
#1	z 167.4	.40141	9.962	.42389	.38650
#2	z 166.7	.39899	9.977	.42636	.38676
Check ?	None	Chk Fail	None	Chk Fail	Chk Fail
High Limit		.23000		.23000	.23000
Low Limit		.17000		.17000	.17000

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.2683**	**.19661**	**.20035**	**.0206**	F **.39852**
Stddev	.0132	.00004	.00036	.0114	.00069
%RSD	.14214	.02133	.18112	55.11	.17296
#1	9.2590	.19664	.20009	.0286	.39804
#2	9.2776	.19658	.20060	.0126	.39901
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Fail
High Limit					.23000
Low Limit					.17000

Sample Name: LCS 480-592077/2-A Acquired: 8/10/2021 15:40:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	F **.40596**	F **.39528**	F **.40095**	**.0332**
Stddev	.00104	.00011	.00221	.0001
%RSD	.25684	.02869	.55026	.3273
#1	.40670	.39536	.39939	.0333
#2	.40522	.39520	.40251	.0331
Check ?	Chk Fail	Chk Fail	Chk Fail	None
High Limit	.23000	.23000	.23000	
Low Limit	.17000	.17000	.17000	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3489.7**	**2835.8**	**59329.**	**3211.8**
Stddev	7.1	4.3	108.	20.8
%RSD	.20408	.15236	.18160	.64618
#1	3494.8	2838.8	59405.	3226.5
#2	3484.7	2832.7	59252.	3197.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.388%	99.361%	98.322%	102.96%
Range				

Sample Name: 480-187872-D-1-A Acquired: 8/10/2021 15:43:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.05300**	**-.00153**	**.44475**	**.05841**
Stddev	.00112	.02803	.00069	.00093	.00008
%RSD	582.76	52.889	45.240	.20942	.13118
#1	.00098	.07282	-.00104	.44541	.05835
#2	-.00060	.03318	-.00203	.44409	.05846
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**135.34**	**.00042**	**-.0138**	**.01016**
Stddev	.00001	.62	.00002	.0287	.00024
%RSD	33.492	.46095	5.2574	207.7	2.3645
#1	-.00002	135.78	.00041	.0065	.00999
#2	-.00004	134.90	.00044	-.0342	.01033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00480**	**.13889**	**7.5759**	**.01663**
Stddev	.00013	.00055	.00060	.0095	.00045
%RSD	21.180	11.403	.43226	.12531	2.7323
#1	.00051	.00441	.13846	7.5826	.01630
#2	.00069	.00518	.13931	7.5691	.01695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-1-A Acquired: 8/10/2021 15:43:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.115**	**7.3784**	**.00734**	**95.047**	**.05116**
Stddev	.101	.0137	.00035	.203	.00027
%RSD	.31458	.18602	4.7048	.21370	.51906
#1	32.187	7.3881	.00758	95.191	.05097
#2	32.044	7.3687	.00710	94.903	.05135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00039**	**5.811**	**-.00402**	**-.00381**
Stddev	-----	.00046	.005	.00322	.00056
%RSD	-----	118.24	.0830	80.228	14.773
#1	z 175.5	.00071	5.815	-.00629	-.00341
#2	z 176.3	.00006	5.808	-.00174	-.00420
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4379**	**-.00100**	**.86586**	**-.0006**	**-.00011**
Stddev	.0117	.00128	.00254	.0095	.00032
%RSD	.18108	128.13	.29353	1587.	284.23
#1	6.4462	-.00009	.86766	.0062	.00011
#2	6.4297	-.00190	.86406	-.0074	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-1-A Acquired: 8/10/2021 15:43:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00307**	**.00004**	**.00979**	**-.0003**
Stddev	.00072	.00017	.00021	.0025
%RSD	23.567	473.86	2.1468	967.1
#1	-.00256	.00016	.00964	.0015
#2	-.00358	-.00008	.00994	-.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3218.1**	**2707.2**	**55969.**	**3188.5**
Stddev	.6	5.6	3.	20.4
%RSD	.01792	.20551	.00537	.63949
#1	3217.7	2703.2	55971.	3174.1
#2	3218.5	2711.1	55967.	3202.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.197%	94.855%	92.754%	102.21%
Range				

Sample Name: 480-187872-D-2-A Acquired: 8/10/2021 15:47:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00134**	**.05610**	**.00511**	**2.1981**	**.29394**
Stddev	.00006	.01250	.00232	.0004	.00077
%RSD	4.7747	22.281	45.387	.01762	.26300
#1	.00129	.04726	.00347	2.1978	.29339
#2	.00138	.06493	.00674	2.1983	.29449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**337.07**	**.00047**	**-.0188**	**.04833**
Stddev	.00005	.88	.00014	.0011	.00005
%RSD	977.52	.26100	29.492	5.783	.09884
#1	-.00003	337.69	.00037	-.0195	.04837
#2	.00004	336.45	.00057	-.0180	.04830
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00304**	**.04002**	**.07495**	**23.905**	**.04447**
Stddev	.00017	.00043	.00093	.046	.00095
%RSD	5.7486	1.0833	1.2430	.19354	2.1404
#1	.00292	.03971	.07560	23.873	.04380
#2	.00317	.04033	.07429	23.938	.04514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-2-A Acquired: 8/10/2021 15:47:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.417**	**16.291**	**.01503**	**462.13**	**.16417**
Stddev	.359	.018	.00011	1.12	.00023
%RSD	.43064	.11028	.69888	.24322	.14185
#1	83.163	16.278	.01510	461.33	.16400
#2	83.671	16.304	.01495	462.92	.16433
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00603**	**6.115**	**-.00487**	**-.00351**
Stddev	-----	.00010	.019	.00070	.00142
%RSD	-----	1.6925	.3091	14.444	40.461
#1	z 220.4	.00596	6.102	-.00536	-.00451
#2	z 219.9	.00611	6.129	-.00437	-.00251
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7618**	**.00058**	**2.2111**	**-.0083**	**-.00108**
Stddev	.0290	.00151	.0030	.0180	.00015
%RSD	.29727	259.13	.13521	216.2	13.785
#1	9.7823	.00165	2.2090	-.0211	-.00119
#2	9.7413	-.00049	2.2133	.0044	-.00098
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-2-A Acquired: 8/10/2021 15:47:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00777**	**.00059**	**.01458**	**-.0007**
Stddev	.00049	.00006	.00081	.0016
%RSD	6.3095	10.742	5.5718	244.1
#1	-.00742	.00064	.01401	.0005
#2	-.00812	.00055	.01515	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2869.4**	**2537.9**	**52214.**	**3119.0**
Stddev	1.3	1.2	154.	4.0
%RSD	.04640	.04588	.29435	.12977
#1	2868.5	2538.8	52323.	3121.8
#2	2870.4	2537.1	52105.	3116.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.966%	88.926%	86.532%	99.980%
Range				

Sample Name: 480-187872-D-3-A Acquired: 8/10/2021 15:51:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00173**	**.04649**	**.00132**	**2.3773**	**.73907**
Stddev	.00136	.01568	.00078	.0027	.00038
%RSD	78.269	33.718	59.190	.11536	.05083
#1	.00269	.05758	.00077	2.3792	.73934
#2	.00077	.03541	.00187	2.3754	.73881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**263.48**	**.00065**	**.0083**	**.05836**
Stddev	.00006	.74	.00010	.0134	.00035
%RSD	139.62	.28196	14.889	161.6	.60322
#1	-.00000	262.96	.00058	.0178	.05811
#2	-.00008	264.01	.00072	-.0012	.05861
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00338**	**.07910**	**.16964**	**56.709**	**.05051**
Stddev	.00011	.00050	.00322	.097	.00112
%RSD	3.2171	.63472	1.8994	.17056	2.2131
#1	.00331	.07875	.17192	56.778	.05130
#2	.00346	.07946	.16737	56.641	.04972
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-3-A Acquired: 8/10/2021 15:51:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**84.765**	**17.295**	**.01710**	**519.87**	**.17031**
Stddev	.642	.014	.00023	.55	.00003
%RSD	.75748	.08092	1.3513	.10523	.01781
#1	84.311	17.305	.01694	520.26	.17029
#2	85.219	17.285	.01727	519.48	.17033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.03774**	**6.156**	**-.00302**	**-.00912**
Stddev	-----	.00056	.027	.00057	.00290
%RSD	-----	1.4887	.4407	18.793	31.769
#1	z 220.1	.03814	6.175	-.00343	-.01117
#2	z 220.6	.03735	6.137	-.00262	-.00707
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6663**	**.00116**	**1.8552**	**-.0111**	**-.00164**
Stddev	.0292	.00071	.0006	.0026	.00006
%RSD	.30187	61.141	.02945	23.13	3.4298
#1	9.6869	.00066	1.8548	-.0093	-.00160
#2	9.6456	.00167	1.8556	-.0129	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-3-A Acquired: 8/10/2021 15:51:33 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00693**	**.00016**	**.00889**	**-.0005**
Stddev	.00040	.00013	.00034	.0009
%RSD	5.7482	81.736	3.8377	170.1
#1	-.00721	.00007	.00913	-.0012
#2	-.00665	.00025	.00865	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2861.6**	**2527.9**	**51976.**	**3128.6**
Stddev	.0	4.5	149.	2.1
%RSD	.00103	.17708	.28677	.06606
#1	2861.6	2524.8	52082.	3127.2
#2	2861.6	2531.1	51871.	3130.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.758%	88.575%	86.138%	100.29%
Range				

Sample Name: 480-187872-D-4-A Acquired: 8/10/2021 15:55:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.02725**	**-.00095**	**.24098**	**.07230**
Stddev	.00037	.01819	.00235	.00055	.00011
%RSD	475.70	66.739	247.87	.22771	.14526
#1	-.00034	.01439	-.00261	.24059	.07222
#2	.00018	.04011	.00071	.24136	.07237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**59.351**	**.00027**	**.0032**	**.00375**
Stddev	.00001	.028	.00003	.0168	.00000
%RSD	51.917	.04660	12.740	518.0	.11077
#1	-.00004	59.370	.00024	.0151	.00376
#2	-.00002	59.331	.00029	-.0086	.00375
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00083**	**7.0799**	**3.1886**	**.00466**
Stddev	.00021	.00034	.0151	.0096	.00068
%RSD	182.73	41.178	.21278	.30106	14.661
#1	.00026	.00059	7.0693	3.1954	.00417
#2	-.00003	.00107	7.0906	3.1818	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-4-A Acquired: 8/10/2021 15:55:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.485**	**1.8101**	**-.00724**	**42.449**	**.00805**
Stddev	.031	.0008	.00020	.003	.00007
%RSD	.15252	.04144	2.8031	.00706	.84378
#1	20.507	1.8106	-.00738	42.447	.00800
#2	20.463	1.8096	-.00710	42.451	.00810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00015**	**36.31**	**-.00172**	**-.00319**
Stddev	-----	.00032	.00	.00050	.00144
%RSD	-----	207.15	.0042	28.935	45.179
#1	z 167.5	.00038	36.31	-.00137	-.00421
#2	z 167.7	-.00007	36.31	-.00207	-.00217
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.964**	**-.00033**	**.26595**	**.0060**	**.00085**
Stddev	.016	.00039	.00040	.0162	.00043
%RSD	.14151	120.44	.15220	271.3	50.543
#1	10.953	-.00005	.26567	.0174	.00115
#2	10.975	-.00060	.26624	-.0055	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-4-A Acquired: 8/10/2021 15:55:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00081**	**-.00002**	**.00622**	**.0003**
Stddev	.00074	.00004	.00011	.0016
%RSD	90.699	172.75	1.7525	449.1
#1	-.00029	.00001	.00614	.0015
#2	-.00133	-.00005	.00630	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3395.4**	**2787.9**	**57774.**	**3197.2**
Stddev	2.6	.9	234.	10.3
%RSD	.07750	.03115	.40574	.32338
#1	3393.5	2788.5	57940.	3189.9
#2	3397.2	2787.3	57608.	3204.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.890%	97.684%	95.745%	102.49%
Range				

Sample Name: 480-187872-D-5-A Acquired: 8/10/2021 15:59:25 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.06001**	**-.00099**	**.43848**	**.05858**
Stddev	.00007	.01672	.00134	.00100	.00003
%RSD	14.864	27.872	135.00	.22696	.04681
#1	.00044	.04818	-.00004	.43919	.05856
#2	.00054	.07183	-.00194	.43778	.05860
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**134.43**	**.00046**	**-.0046**	**.01007**
Stddev	.00004	.31	.00002	.0244	.00015
%RSD	58.189	.23096	3.9205	534.2	1.4595
#1	-.00009	134.65	.00044	-.0218	.00997
#2	-.00004	134.21	.00047	.0127	.01018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00072**	**.00456**	**.13128**	**7.5789**	**.01652**
Stddev	.00016	.00008	.00037	.0128	.00064
%RSD	22.022	1.7220	.27850	.16855	3.8576
#1	.00061	.00451	.13102	7.5879	.01697
#2	.00084	.00462	.13154	7.5698	.01607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-5-A Acquired: 8/10/2021 15:59:25 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.799**	**7.3715**	**.00440**	**94.423**	**.05098**
Stddev	.016	.0003	.00002	.151	.00033
%RSD	.05043	.00373	.41580	.15943	.64596
#1	31.788	7.3717	.00439	94.316	.05075
#2	31.811	7.3713	.00441	94.529	.05121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00095**	**5.763**	**-.00198**	**-.00514**
Stddev	-----	.00098	.005	.00024	.00189
%RSD	-----	103.61	.0945	12.299	36.841
#1	z 176.7	.00025	5.759	-.00215	-.00647
#2	z 175.7	.00164	5.767	-.00181	-.00380
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.4504**	**-.00020**	**.86443**	**.0033**	**-.00039**
Stddev	.0188	.00105	.00223	.0190	.00000
%RSD	.29096	522.65	.25778	583.8	.73124
#1	6.4637	-.00095	.86601	-.0102	-.00038
#2	6.4371	.00054	.86286	.0167	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-5-A Acquired: 8/10/2021 15:59:25 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00309**	**-.00028**	**.02229**	**.0002**
Stddev	.00192	.00023	.00039	.0003
%RSD	62.177	83.572	1.7486	134.3
#1	-.00173	-.00011	.02201	.0000
#2	-.00444	-.00044	.02256	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3213.4**	**2721.5**	**56056.**	**3146.6**
Stddev	2.4	2.4	114.	10.8
%RSD	.07330	.08868	.20374	.34362
#1	3215.1	2723.2	55976.	3139.0
#2	3211.8	2719.8	56137.	3154.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.074%	95.356%	92.899%	100.87%
Range				

Sample Name: 480-187872-D-6-A Acquired: 8/10/2021 16:03:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00109**	**.93918**	**.00053**	**1.8624**	**.32367**
Stddev	.00007	.02307	.00314	.0014	.00073
%RSD	6.0201	2.4562	588.56	.07504	.22494
#1	.00114	.92287	.00275	1.8614	.32315
#2	.00104	.95549	-.00168	1.8634	.32418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**344.62**	**.00109**	**-.0036**	**.04052**
Stddev	.00002	1.12	.00006	.0145	.00008
%RSD	90.410	.32438	5.6034	401.2	.20047
#1	.00001	343.83	.00104	-.0138	.04058
#2	.00003	345.41	.00113	.0066	.04046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00389**	**.02666**	**1.9568**	**21.067**	**.04430**
Stddev	.00011	.00009	.0065	.082	.00084
%RSD	2.8248	.32717	.32939	.39020	1.9065
#1	.00381	.02672	1.9613	21.009	.04490
#2	.00397	.02660	1.9522	21.125	.04370
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-6-A Acquired: 8/10/2021 16:03:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**79.811**	**13.525**	**.00280**	**375.84**	**.15502**
Stddev	.270	.004	.00024	.00	.00016
%RSD	.33821	.03118	8.6409	.00097	.10271
#1	80.002	13.528	.00297	375.84	.15491
#2	79.620	13.522	.00263	375.84	.15513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00434**	**6.742**	**-.00535**	**-.00757**
Stddev	-----	.00013	.010	.00105	.00287
%RSD	-----	2.9451	.1523	19.630	37.938
#1	z 232.4	.00425	6.749	-.00461	-.00960
#2	z 231.8	.00443	6.735	-.00609	-.00554
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.268**	**.00016**	**2.1376**	**-.0065**	**.12244**
Stddev	.073	.00046	.0060	.0201	.00148
%RSD	.59483	288.64	.27877	309.8	1.2089
#1	12.216	-.00016	2.1334	.0077	.12349
#2	12.320	.00048	2.1419	-.0207	.12139
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187872-D-6-A Acquired: 8/10/2021 16:03:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00787**	**.00215**	**.02628**	**-.0003**
Stddev	.00009	.00056	.00033	.0006
%RSD	1.1055	26.091	1.2436	186.5
#1	-.00781	.00254	.02651	-.0007
#2	-.00794	.00175	.02605	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2895.8**	**2568.8**	**52722.**	**3098.6**
Stddev	3.1	2.9	81.	9.9
%RSD	.10808	.11398	.15297	.32090
#1	2893.6	2566.7	52665.	3091.5
#2	2898.0	2570.8	52779.	3105.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.665%	90.006%	87.373%	99.326%
Range				

Sample Name: 480-187937-C-1-A Acquired: 8/10/2021 16:07:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.05066**	**-.00379**	**.08240**	**.11841**
Stddev	.00005	.02804	.00439	.00028	.00005
%RSD	19.874	55.343	116.01	.34277	.03831
#1	.00024	.07049	-.00068	.08260	.11838
#2	.00031	.03084	-.00690	.08220	.11844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**179.82**	**.00024**	**.0048**	**.00056**
Stddev	.00003	.52	.00006	.0263	.00014
%RSD	38.880	.28903	27.010	550.4	24.822
#1	-.00011	179.45	.00019	.0234	.00066
#2	-.00006	180.19	.00028	-.0138	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00074**	**1.8414**	**2.0184**	**.01597**
Stddev	.00005	.00007	.0137	.0010	.00031
%RSD	25.536	9.9168	.74296	.05212	1.9426
#1	.00016	.00069	1.8317	2.0192	.01618
#2	.00024	.00080	1.8510	2.0177	.01575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187937-C-1-A Acquired: 8/10/2021 16:07:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**97.143**	**.08082**	**-.00662**	**57.445**	**.00843**
Stddev	.033	.00014	.00012	.184	.00043
%RSD	.03416	.17260	1.8053	.32058	5.0426
#1	97.166	.08092	-.00653	57.315	.00873
#2	97.119	.08072	-.00670	57.575	.00813
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00127**	**40.17**	**-.00279**	**-.00575**
Stddev	-----	.00058	.04	.00001	.00140
%RSD	-----	45.921	.0879	.45379	24.359
#1	z 186.7	.00086	40.14	-.00280	-.00674
#2	z 187.1	.00168	40.19	-.00278	-.00476
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7259**	**-.00122**	**.19928**	**.0025**	**.00088**
Stddev	.0331	.00056	.00089	.0163	.00003
%RSD	.33991	46.253	.44854	643.5	3.9839
#1	9.7025	-.00082	.19865	-.0090	.00090
#2	9.7493	-.00162	.19991	.0141	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187937-C-1-A Acquired: 8/10/2021 16:07:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00086**	**-.00031**	**.02024**	**.0006**
Stddev	.00092	.00028	.00065	.0006
%RSD	107.04	90.785	3.2014	99.77
#1	-.00150	-.00011	.01979	.0002
#2	-.00021	-.00051	.02070	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3158.0**	**2671.1**	**55346.**	**3133.2**
Stddev	1.2	6.6	72.	17.0
%RSD	.03865	.24556	.13058	.54106
#1	3157.1	2675.8	55295.	3145.2
#2	3158.8	2666.5	55397.	3121.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.605%	93.592%	91.722%	100.44%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 16:11:10 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94532**	**48.251**	**.97247**	**.97030**	**1.0028**	**.98490**	**48.460**	**.94720**
Stddev	.00114	.047	.00401	.00061	.0014	.00289	.118	.00129
%RSD	.12022	.09759	.41204	.06294	.13492	.29307	.24418	.13567
#1	.94613	48.285	.97530	.97073	1.0018	.98286	48.377	.94811
#2	.94452	48.218	.96963	.96986	1.0038	.98694	48.544	.94629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9916**	**.99926**	**.97276**	**.97932**	**49.007**	**48.991**	**.94832**	**47.439**
Stddev	.0020	.00024	.00304	.00053	.328	.009	.00240	.147
%RSD	.2004	.02386	.31213	.05432	.66961	.01799	.25284	.30937
#1	.9930	.99943	.97490	.97895	48.775	48.997	.94662	47.542
#2	.9902	.99909	.97061	.97970	49.239	48.984	.95002	47.335
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97822**	**.99771**	**49.177**	**.98422**	z *****	**.99521**	**24.80**	**.95434**
Stddev	.00317	.00265	.070	.00046	-----	.00185	.01	.00236
%RSD	.32416	.26573	.14282	.04692	-----	.18553	.0220	.24739
#1	.98046	.99583	49.127	.98389	z 9203.	.99390	24.79	.95601
#2	.97598	.99958	49.227	.98454	z 9217.	.99651	24.80	.95267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 16:11:10 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96118	9.5854	1.0028	.97380	.9711	.98052	.99713	.98518
Stddev	.00156	.0894	.0031	.00094	.0040	.00071	.00039	.00271
%RSD	.16250	.93290	.30668	.09695	.4135	.07290	.03870	.27482
#1	.96008	9.5222	1.0006	.97314	.9739	.98102	.99685	.98710
#2	.96229	9.6487	1.0049	.97447	.9682	.98001	.99740	.98327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0125	.9442
Stddev	.0026	.0053
%RSD	.26032	.5589
#1	1.0144	.9405
#2	1.0107	.9480
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3239.1	2802.9	56724.	3133.7
Stddev	2.3	3.3	108.	10.4
%RSD	.07189	.11911	.19023	.33150
#1	3237.5	2800.6	56648.	3141.1
#2	3240.8	2805.3	56801.	3126.4

Sample Name: CCB-6597963 Acquired: 8/10/2021 16:14:47 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.04462**	**.00009**	**-.00097**	**.00007**	**-.00005**	**.00202**	**-.00005**
Stddev	.00001	.00164	.00106	.00014	.00000	.00006	.00330	.00012
%RSD	206.09	3.6775	1152.8	14.383	6.3594	124.06	163.38	241.86
#1	.00000	.04346	-.00066	-.00087	.00006	-.00009	.00436	.00004
#2	-.00001	.04578	.00084	-.00106	.00007	-.00001	-.00031	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0312**	**.00016**	**.00021**	**.00003**	**.00437**	**-.07883**	**-.00076**	**-.00128**
Stddev	.0055	.00018	.00031	.00061	.00084	.02188	.00110	.00264
%RSD	17.74	114.85	146.95	2119.6	19.279	27.760	144.37	206.64
#1	.0351	.00028	.00043	.00046	.00378	-.09430	.00002	.00059
#2	.0273	.00003	-.00001	-.00041	.00497	-.06336	-.00154	-.00314
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00008**	**.00038**	**.01654**	**-.00007**	z *****	**-.00025**	**.0032**	**-.00248**
Stddev	.00006	.00109	.00533	.00004	-----	.00031	.0008	.00045
%RSD	70.586	282.43	32.251	64.438	-----	127.68	24.07	18.300
#1	.00012	.00115	.02031	-.00004	z 136.9	-.00002	.0038	-.00280
#2	.00004	-.00038	.01277	-.00010	z 137.3	-.00047	.0027	-.00216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 16:14:47 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00349	.01951	-.00021	-.00000	.0075	-.00009	-.00089	-.00022
Stddev	.00040	.02790	.00031	.00000	.0137	.00013	.00016	.00006
%RSD	11.410	142.97	143.70	114.94	184.2	143.03	18.077	26.824
#1	.00377	-.00021	.00000	-.00001	.0172	.00000	-.00101	-.00018
#2	.00321	.03924	-.00043	-.00000	-.0023	-.00019	-.00078	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00030	.0000
Stddev	.00007	.0009
%RSD	23.075	2755.
#1	.00035	-.0006
#2	.00025	.0007
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3779.9	2920.6	60928.	3203.1
Stddev	7.3	7.6	113.	11.5
%RSD	.19192	.26114	.18513	.35772
#1	3774.8	2915.2	61008.	3211.2
#2	3785.1	2926.0	60848.	3195.0

Sample Name: CCVL-6603764 Acquired: 8/10/2021 16:18:37 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00559**	**.20763**	**.01412**	**.01700**	**.00220**	**.00194**	**.48454**
Stddev	.00054	.01482	.00096	.00020	.00001	.00003	.00262
%RSD	9.6365	7.1385	6.8212	1.2008	.59808	1.6497	.54016
#1	.00597	.21811	.01344	.01715	.00221	.00196	.48269
#2	.00520	.19714	.01481	.01686	.00219	.00191	.48639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.0009**	**.00407**	**.00417**	**.00919**	**.04667**	W **.33694**
Stddev	.00010	.0211	.00007	.00000	.00003	.00006	.02182
%RSD	5.6457	2325.	1.6108	.07337	.27747	.13734	6.4765
#1	.00191	.0158	.00412	.00417	.00921	.04663	.32151
#2	.00176	-.0140	.00403	.00417	.00917	.04672	.35237
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02613**	**.18678**	**.00321**	F **.00442**	**1.0137**	**.00942**	z *****
Stddev	.00004	.00025	.00000	.00005	.0067	.00005	-----
%RSD	.13905	.13641	.10436	1.0317	.66262	.50410	-----
#1	.02610	.18696	.00321	.00439	1.0090	.00938	z 136.0
#2	.02616	.18660	.00321	.00445	1.0185	.00945	z 136.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 16:18:37 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00962**	**.1936**	**.01985**	**.02392**	**.44001**	**.00907**	**.00474**
Stddev	.00047	.0029	.00040	.00252	.01404	.00018	.00002
%RSD	4.8529	1.511	1.9970	10.544	3.1907	1.9983	.46156
#1	.00929	.1957	.01957	.02570	.43008	.00894	.00473
#2	.00995	.1916	.02013	.02213	.44994	.00920	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**.00446**	**.01860**	**.00471**	**.00985**	**.0015**
Stddev	.0029	.00029	.00029	.00064	.00033	.0002
%RSD	278.4	6.4432	1.5564	13.617	3.3843	10.01
#1	.0010	.00466	.01881	.00516	.01008	.0014
#2	-.0031	.00425	.01840	.00425	.00961	.0016
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3757.6**	**2926.9**	**60839.**	**3176.1**
Stddev	2.6	.8	17.	12.1
%RSD	.06798	.02763	.02737	.37964
#1	3755.8	2926.3	60827.	3184.7
#2	3759.4	2927.4	60850.	3167.6

Sample Name: 480-188016-B-1-A Acquired: 8/10/2021 16:22:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.04163**	**-.00089**	**.02396**	**.09588**
Stddev	.00021	.01129	.00105	.00021	.00011
%RSD	1337.8	27.118	118.82	.88714	.11770
#1	.00017	.03365	-.00014	.02381	.09596
#2	-.00013	.04962	-.00163	.02411	.09580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**39.372**	**.00013**	**-.0024**	**.00025**
Stddev	.00004	.085	.00004	.0027	.00001
%RSD	88.995	.21655	32.580	112.6	3.7783
#1	-.00008	39.432	.00010	-.0005	.00025
#2	-.00002	39.311	.00016	-.0044	.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01509**	**.00563**	**.00195**	**1.7060**	**.00887**
Stddev	.00031	.00041	.00524	.0167	.00127
%RSD	2.0859	7.2545	269.40	.97842	14.279
#1	.01531	.00592	-.00176	1.7178	.00977
#2	.01487	.00534	.00565	1.6942	.00798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-A Acquired: 8/10/2021 16:22:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.048**	**.00047**	**-.00353**	**22.641**	**.01618**
Stddev	.001	.00001	.00010	.024	.00009
%RSD	.00872	1.1488	2.7549	.10441	.56677
#1	14.047	.00048	-.00360	22.658	.01612
#2	14.048	.00047	-.00346	22.624	.01625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00020**	**7.127**	**.00087**	**-.00198**
Stddev	-----	.00059	.007	.00000	.00277
%RSD	-----	292.26	.1043	.43005	139.79
#1	z 161.1	-.00061	7.133	.00088	-.00002
#2	z 162.2	.00021	7.122	.00087	-.00394
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6023**	**-.00053**	**2.6201**	**.0025**	**.00007**
Stddev	.0006	.00034	.0034	.0081	.00009
%RSD	.02270	64.272	.12913	327.7	126.55
#1	2.6027	-.00029	2.6225	-.0032	.00001
#2	2.6019	-.00077	2.6177	.0082	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-A Acquired: 8/10/2021 16:22:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00055**	**.00005**	**.00459**	**-.0007**
Stddev	.00022	.00040	.00008	.0003
%RSD	39.946	804.39	1.7740	44.52
#1	-.00039	-.00023	.00465	-.0005
#2	-.00070	.00033	.00453	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3480.5**	**2827.8**	**58479.**	**3206.4**
Stddev	2.3	3.7	89.	10.7
%RSD	.06541	.12914	.15218	.33393
#1	3478.9	2830.4	58542.	3213.9
#2	3482.1	2825.2	58416.	3198.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.144%	99.082%	96.914%	102.78%
Range				

Sample Name: 480-188016-B-1-ASD@5 Acquired: 8/10/2021 16:26:16 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.01226**	**-.00167**	**.00268**	**.01927**
Stddev	.00014	.00904	.00102	.00013	.00005
%RSD	33.211	73.726	60.989	4.7450	.25769
#1	.00051	.00587	-.00095	.00277	.01931
#2	.00032	.01866	-.00239	.00259	.01924
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**7.8874**	**-.00009**	**.0032**	**.00022**
Stddev	.00007	.0050	.00000	.0254	.00002
%RSD	100.35	.06407	3.4058	785.1	7.4876
#1	-.00002	7.8910	-.00009	-.0147	.00021
#2	-.00011	7.8838	-.00009	.0212	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00309**	**.00096**	**-.00412**	**.18999**	**.00167**
Stddev	.00001	.00016	.00086	.00730	.00122
%RSD	.21195	16.692	20.898	3.8435	73.348
#1	.00309	.00108	-.00351	.19516	.00253
#2	.00310	.00085	-.00473	.18483	.00080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-ASD@5 Acquired: 8/10/2021 16:26:16 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7640**	**.00003**	**-.00670**	**4.5128**	**.00299**
Stddev	.0017	.00001	.00012	.0220	.00001
%RSD	.06138	25.848	1.7429	.48833	.25664
#1	2.7628	.00002	-.00678	4.5284	.00300
#2	2.7652	.00003	-.00662	4.4972	.00299
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00118**	**1.378**	**-.00150**	**.00240**
Stddev	-----	.00091	.002	.00165	.00276
%RSD	-----	76.480	.1394	109.65	115.01
#1	z 141.5	.00054	1.377	-.00266	.00045
#2	z 141.1	.00182	1.380	-.00034	.00435
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.50170**	**-.00044**	**.51708**	**-.0012**	**-.00049**
Stddev	.03835	.00017	.00224	.0138	.00016
%RSD	7.6440	37.990	.43324	1182.	32.215
#1	.52882	-.00056	.51867	-.0109	-.00038
#2	.47458	-.00032	.51550	.0086	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-ASD@5 Acquired: 8/10/2021 16:26:16 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00126**	**.00004**	**.00086**	**-.0007**
Stddev	.00061	.00005	.00000	.0004
%RSD	48.460	141.78	.45743	50.54
#1	-.00083	.00007	.00086	-.0005
#2	-.00170	-.00000	.00085	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3674.6**	**2895.1**	**60426.**	**3226.3**
Stddev	.6	4.9	98.	5.6
%RSD	.01523	.17012	.16187	.17206
#1	3674.2	2891.6	60356.	3222.4
#2	3675.0	2898.6	60495.	3230.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.283%	101.44%	100.14%	103.42%
Range				

Sample Name: 480-188016-B-1-APDS Acquired: 8/10/2021 16:30:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04681**	**9.6489**	**.20947**	**.21848**	**.31248**
Stddev	.00025	.1002	.00079	.00021	.00239
%RSD	.52443	1.0384	.37860	.09639	.76608
#1	.04699	9.7197	.20891	.21863	.31078
#2	.04664	9.5780	.21003	.21833	.31417
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21138**	**48.065**	**.19823**	**-.0086**	**.20516**
Stddev	.00105	.257	.00038	.0057	.00023
%RSD	.49695	.53518	.19198	65.90	.11222
#1	.21212	48.247	.19850	-.0126	.20499
#2	.21063	47.883	.19796	-.0046	.20532
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21063**	**.20629**	**9.6357**	**11.834**	**.20040**
Stddev	.00057	.00028	.0558	.035	.00148
%RSD	.27024	.13671	.57867	.29437	.73745
#1	.21103	.20649	9.6751	11.858	.20145
#2	.21023	.20609	9.5962	11.809	.19936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-APDS Acquired: 8/10/2021 16:30:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.021**	**.20169**	**.21185**	**31.699**	**.21849**
Stddev	.013	.00002	.00024	.097	.00001
%RSD	.05858	.00974	.11514	.30689	.00568
#1	23.030	.20171	.21167	31.768	.21848
#2	23.011	.20168	.21202	31.630	.21850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20769**	**17.17**	**.21381**	**.19460**
Stddev	-----	.00171	.00	.00006	.00043
%RSD	-----	.82474	.0144	.02836	.21841
#1	z 178.0	.20890	17.17	.21386	.19490
#2	z 178.5	.20648	17.17	.21377	.19429
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.788**	**.20246**	**2.7260**	**.0150**	**.20670**
Stddev	.009	.00032	.0088	.0111	.00019
%RSD	.07271	.15615	.32243	73.94	.09418
#1	11.794	.20224	2.7322	.0229	.20684
#2	11.782	.20268	2.7198	.0072	.20656
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-APDS Acquired: 8/10/2021 16:30:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20970**	**.20272**	**.21114**	**.0401**
Stddev	.00043	.00049	.00050	.0012
%RSD	.20317	.24001	.23695	2.901
#1	.20939	.20307	.21079	.0410
#2	.21000	.20238	.21149	.0393
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3378.7**	**2826.1**	**58371.**	**3206.3**
Stddev	7.7	7.8	121.	8.4
%RSD	.22901	.27680	.20648	.26060
#1	3373.2	2820.5	58456.	3200.4
#2	3384.2	2831.6	58286.	3212.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.449%	99.021%	96.735%	102.78%
Range				

Sample Name: 480-188016-B-1-B MS Acquired: 8/10/2021 16:33:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04584**	**9.7060**	**.41293**	**.21697**	**.31401**
Stddev	.00046	.0419	.00084	.00052	.00221
%RSD	.99503	.43182	.20424	.23873	.70287
#1	.04551	9.7356	.41233	.21660	.31245
#2	.04616	9.6763	.41352	.21734	.31557
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41411**	**58.226**	**.38851**	**.0220**	**.40106**
Stddev	.00030	.049	.00027	.0026	.00006
%RSD	.07309	.08345	.06897	11.98	.01601
#1	.41432	58.260	.38832	.0202	.40101
#2	.41389	58.192	.38870	.0239	.40110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39877**	**.39885**	**18.885**	**11.781**	**.20030**
Stddev	.00158	.00079	.022	.004	.00039
%RSD	.39524	.19869	.11802	.03241	.19577
#1	.39766	.39941	18.901	11.783	.20057
#2	.39989	.39829	18.869	11.778	.20002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-B MS Acquired: 8/10/2021 16:33:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.675**	**.39409**	**.42011**	**32.199**	**.41427**
Stddev	.115	.00030	.00080	.029	.00001
%RSD	.35203	.07642	.19025	.08981	.00265
#1	32.594	.39388	.41954	32.219	.41428
#2	32.756	.39431	.42067	32.178	.41426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.40528**	**17.20**	**.42814**	**.38957**
Stddev	-----	.00027	.01	.00278	.00238
%RSD	-----	.06607	.0399	.64945	.60971
#1	z 185.4	.40509	17.19	.43011	.39125
#2	z 184.9	.40547	17.20	.42618	.38789
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.765**	**.20031**	**2.7799**	**.0286**	**.40244**
Stddev	.007	.00014	.0020	.0006	.00005
%RSD	.06024	.07150	.07322	2.129	.01347
#1	11.760	.20021	2.7813	.0290	.40241
#2	11.770	.20041	2.7784	.0282	.40248
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-B MS Acquired: 8/10/2021 16:33:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.41004**	**.39785**	**.40172**	**.0203**
Stddev	.00089	.00268	.00125	.0015
%RSD	.21774	.67329	.31138	7.534
#1	.40941	.39595	.40084	.0192
#2	.41067	.39974	.40261	.0214
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3341.5**	**2809.5**	**58061.**	**3201.4**
Stddev	5.2	1.1	55.	3.9
%RSD	.15464	.03892	.09455	.12110
#1	3345.2	2808.7	58100.	3204.1
#2	3337.9	2810.3	58022.	3198.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.465%	98.441%	96.221%	102.62%
Range				

Sample Name: 480-188016-B-1-C MSD Acquired: 8/10/2021 16:37:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04419**	**9.7819**	**.42005**	**.21794**	**.31747**
Stddev	.00043	.0207	.00105	.00063	.00103
%RSD	.96638	.21128	.25007	.28747	.32550
#1	.04449	9.7673	.42079	.21750	.31820
#2	.04389	9.7965	.41931	.21838	.31674
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.41941**	**58.638**	**.39254**	**.0113**	**.40789**
Stddev	.00057	.029	.00084	.0056	.00035
%RSD	.13588	.04924	.21303	49.66	.08545
#1	.41901	58.618	.39313	.0153	.40764
#2	.41981	58.659	.39195	.0073	.40814
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40515**	**.40391**	**19.146**	**11.830**	**.20187**
Stddev	.00011	.00153	.017	.005	.00124
%RSD	.02802	.37787	.08727	.03832	.61296
#1	.40507	.40283	19.158	11.834	.20100
#2	.40524	.40499	19.134	11.827	.20275
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-C MSD Acquired: 8/10/2021 16:37:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.140**	**.40030**	**.42625**	**32.483**	**.41939**
Stddev	.077	.00090	.00118	.006	.00070
%RSD	.23289	.22430	.27772	.01806	.16678
#1	33.195	.40093	.42542	32.487	.41890
#2	33.086	.39966	.42709	32.479	.41989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.41508**	**17.29**	**.42985**	**.39383**
Stddev	-----	.00061	.00	.00084	.00269
%RSD	-----	.14684	.0085	.19558	.68276
#1	z 186.3	.41464	17.29	.42925	.39193
#2	z 185.4	.41551	17.29	.43044	.39573
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.972**	**.20337**	**2.8056**	**.0152**	**.40783**
Stddev	.020	.00040	.0004	.0002	.00009
%RSD	.17117	.19734	.01389	1.070	.02146
#1	11.987	.20308	2.8058	.0153	.40777
#2	11.958	.20365	2.8053	.0150	.40789
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-1-C MSD Acquired: 8/10/2021 16:37:31 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.41650**	**.40256**	**.40991**	**.0169**
Stddev	.00038	.00115	.00039	.0009
%RSD	.09201	.28678	.09545	5.315
#1	.41677	.40337	.41018	.0162
#2	.41623	.40174	.40963	.0175
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3328.8**	**2806.4**	**57710.**	**3201.7**
Stddev	1.2	1.0	121.	3.6
%RSD	.03556	.03401	.20964	.11173
#1	3329.6	2807.0	57625.	3204.3
#2	3328.0	2805.7	57796.	3199.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.128%	98.330%	95.640%	102.63%
Range				

Sample Name: 480-188016-B-2-A Acquired: 8/10/2021 16:41:13 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.07538**	**-.00091**	**.01124**	**.02068**
Stddev	.00050	.00657	.00183	.00020	.00001
%RSD	6828.5	8.7104	199.93	1.7719	.07252
#1	.00035	.07074	.00038	.01110	.02069
#2	-.00036	.08002	-.00221	.01138	.02067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**40.018**	**.00016**	**-.0149**	**.00148**
Stddev	.00008	.039	.00003	.0165	.00005
%RSD	3308.7	.09630	18.673	110.4	3.2536
#1	-.00006	40.046	.00014	-.0033	.00152
#2	.00005	39.991	.00018	-.0265	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06331**	**.00121**	**.37956**	**.99263**	**.00281**
Stddev	.00007	.00009	.00116	.00715	.00020
%RSD	.11780	7.2573	.30482	.71982	7.0845
#1	.06325	.00114	.37874	.99769	.00296
#2	.06336	.00127	.38038	.98758	.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-2-A Acquired: 8/10/2021 16:41:13 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8907**	**.03132**	**-.00321**	**120.99**	**.13162**
Stddev	.0123	.00013	.00017	.35	.00002
%RSD	.25204	.40747	5.3795	.28544	.01542
#1	4.8994	.03141	-.00309	121.23	.13160
#2	4.8820	.03123	-.00334	120.75	.13163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00071**	**11.77**	**-.00002**	**-.00160**
Stddev	-----	.00007	.03	.00058	.00261
%RSD	-----	9.7009	.2732	2895.5	162.76
#1	z 153.5	.00066	11.79	-.00043	.00024
#2	z 153.4	.00076	11.75	.00039	-.00345
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8599**	**-.00040**	**.28149**	**-.0061**	**.00032**
Stddev	.0081	.00039	.00037	.0057	.00026
%RSD	.20871	97.257	.13109	93.47	80.698
#1	3.8656	-.00067	.28175	-.0021	.00014
#2	3.8542	-.00012	.28123	-.0101	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-2-A Acquired: 8/10/2021 16:41:13 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00041**	**-.00001**	**.01215**	**-.0004**
Stddev	.00037	.00011	.00014	.0024
%RSD	90.619	1818.0	1.1562	639.2
#1	.00067	.00007	.01205	.0013
#2	.00015	-.00009	.01225	-.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3328.7**	**2793.3**	**56875.**	**3202.4**
Stddev	2.7	5.9	40.	3.6
%RSD	.08081	.20982	.07112	.11247
#1	3326.8	2789.2	56904.	3199.8
#2	3330.6	2797.5	56847.	3204.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.126%	97.874%	94.256%	102.65%
Range				

Sample Name: 480-188016-B-3-A Acquired: 8/10/2021 16:45:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00031**	**.06650**	**-.00330**	**.02723**	**.01995**
Stddev	.00015	.00687	.00010	.00016	.00006
%RSD	46.423	10.338	3.1147	.58132	.28682
#1	.00042	.07136	-.00322	.02734	.01991
#2	.00021	.06164	-.00337	.02712	.01999
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**77.220**	**.00033**	**.0143**	**.00183**
Stddev	.00003	.043	.00006	.0219	.00005
%RSD	169.87	.05534	18.457	152.6	2.8529
#1	.00000	77.189	.00029	.0298	.00187
#2	-.00004	77.250	.00037	-.0011	.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02759**	**.00148**	**.21420**	**2.1621**	**.00686**
Stddev	.00038	.00012	.00376	.0018	.00116
%RSD	1.3686	7.9689	1.7542	.08368	16.897
#1	.02786	.00140	.21154	2.1608	.00767
#2	.02732	.00156	.21686	2.1634	.00604
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-3-A Acquired: 8/10/2021 16:45:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9053**	**3.0867**	**-.00563**	**75.568**	**.01599**
Stddev	.0052	.0125	.00003	.099	.00013
%RSD	.06604	.40552	.46753	.13043	.78752
#1	7.9016	3.0778	-.00565	75.499	.01608
#2	7.9090	3.0955	-.00561	75.638	.01590
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00105**	**10.82**	**-.00208**	**-.00253**
Stddev	-----	.00081	.01	.00000	.00009
%RSD	-----	77.455	.0628	.09072	3.7274
#1	z 158.7	.00048	10.82	-.00208	-.00259
#2	z 159.2	.00163	10.83	-.00207	-.00246
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0335**	**-.00066**	**.48397**	**.0119**	**-.00040**
Stddev	.0123	.00043	.00099	.0052	.00012
%RSD	.24512	65.689	.20551	43.66	29.599
#1	5.0247	-.00035	.48327	.0156	-.00031
#2	5.0422	-.00096	.48467	.0083	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-3-A Acquired: 8/10/2021 16:45:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.00025**	**.01942**	**-.0016**
Stddev	.00079	.00006	.00056	.0004
%RSD	310.47	23.944	2.8773	23.60
#1	.00030	.00029	.01903	-.0014
#2	-.00081	.00021	.01982	-.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3342.9**	**2775.0**	**56844.**	**3159.3**
Stddev	4.2	3.4	32.	6.7
%RSD	.12488	.12308	.05652	.21307
#1	3339.9	2772.6	56867.	3154.5
#2	3345.8	2777.4	56822.	3164.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.501%	97.233%	94.205%	101.27%
Range				

Sample Name: 480-188016-B-4-A Acquired: 8/10/2021 16:48:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.03372**	**.00131**	**.01022**	**.04969**
Stddev	.00031	.00180	.00075	.00008	.00015
%RSD	96.876	5.3420	57.101	.74329	.29453
#1	-.00010	.03499	.00078	.01028	.04959
#2	-.00054	.03245	.00184	.01017	.04980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**52.175**	**.00001**	**.0212**	**.00054**
Stddev	.00008	.106	.00001	.0029	.00004
%RSD	68.249	.20379	61.696	13.55	7.3748
#1	-.00017	52.250	.00001	.0192	.00051
#2	-.00006	52.100	.00001	.0233	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00019**	**2.4559**	**1.7145**	**.00055**
Stddev	.00021	.00016	.0113	.0531	.00105
%RSD	2132.5	80.982	.45943	3.0957	188.79
#1	.00015	.00031	2.4639	1.7521	.00129
#2	-.00014	.00008	2.4480	1.6770	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-4-A Acquired: 8/10/2021 16:48:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.874**	**.33675**	**-.00700**	**142.22**	**.00033**
Stddev	.000	.00061	.00024	.05	.00038
%RSD	.00103	.18162	3.4007	.03276	118.02
#1	12.874	.33632	-.00717	142.19	.00060
#2	12.874	.33719	-.00683	142.25	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00004**	**2.078**	**-.00030**	**-.00403**
Stddev	-----	.00039	.000	.00020	.00058
%RSD	-----	951.28	.0196	66.230	14.401
#1	z 179.9	-.00024	2.077	-.00016	-.00444
#2	z 182.1	.00032	2.078	-.00044	-.00362
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9683**	**-.00041**	**.18654**	**-.0097**	**.00019**
Stddev	.0053	.00036	.00044	.0053	.00033
%RSD	.26662	86.533	.23717	54.19	172.82
#1	1.9720	-.00066	.18686	-.0060	.00042
#2	1.9645	-.00016	.18623	-.0135	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-4-A Acquired: 8/10/2021 16:48:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00010**	**.01346**	**.0004**
Stddev	.00221	.00048	.00017	.0002
%RSD	2255.3	471.67	1.2366	46.71
#1	.00166	-.00024	.01357	.0003
#2	-.00146	.00044	.01334	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3261.8**	**2762.4**	**56310.**	**3156.9**
Stddev	.2	1.4	200.	1.5
%RSD	.00587	.04928	.35573	.04851
#1	3262.0	2763.3	56451.	3155.8
#2	3261.7	2761.4	56168.	3158.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.355%	96.790%	93.319%	101.20%
Range				

Sample Name: 480-188016-B-5-A Acquired: 8/10/2021 16:52:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00049**	**.03612**	**-.00005**	**.32483**	**.02340**
Stddev	.00009	.02280	.00133	.00006	.00004
%RSD	17.375	63.139	2646.0	.01951	.14965
#1	-.00043	.01999	.00089	.32488	.02337
#2	-.00055	.05224	-.00099	.32479	.02342
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**41.264**	**-.00000**	**-.0045**	**.00025**
Stddev	.00003	.070	.00003	.0080	.00003
%RSD	29.814	.16849	649.15	176.8	12.250
#1	-.00008	41.215	-.00003	.0011	.00023
#2	-.00013	41.314	.00002	-.0102	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**.00052**	**-.00070**	**2.6444**	**.00250**
Stddev	.00005	.00016	.00362	.0102	.00024
%RSD	34.469	30.104	519.97	.38444	9.5508
#1	.00010	.00041	.00186	2.6372	.00267
#2	.00017	.00064	-.00325	2.6516	.00233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-5-A Acquired: 8/10/2021 16:52:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2200**	**.00039**	**-.00740**	**72.914**	**.00012**
Stddev	.0204	.00002	.00015	.418	.00008
%RSD	.39136	4.1409	1.9696	.57272	68.686
#1	5.2344	.00038	-.00729	72.618	.00006
#2	5.2055	.00040	-.00750	73.209	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00028**	**10.81**	**-.00134**	**-.00319**
Stddev	-----	.00005	.02	.00006	.00026
%RSD	-----	17.804	.1787	4.3858	8.2226
#1	z 157.2	.00024	10.83	-.00138	-.00300
#2	z 157.9	.00031	10.80	-.00130	-.00337
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4694**	**-.00021**	**.23971**	**-.0058**	**-.00011**
Stddev	.0545	.00013	.00110	.0020	.00012
%RSD	1.2190	62.852	.45723	33.66	103.03
#1	4.4309	-.00012	.23893	-.0072	-.00019
#2	4.5079	-.00030	.24048	-.0044	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-5-A Acquired: 8/10/2021 16:52:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00067**	**.00013**	**.00239**	**.0001**
Stddev	.00008	.00014	.00031	.0006
%RSD	11.599	103.74	13.043	817.3
#1	.00062	.00004	.00217	.0005
#2	.00073	.00023	.00261	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3392.1**	**2813.0**	**57381.**	**3196.7**
Stddev	7.0	.5	66.	2.3
%RSD	.20565	.01628	.11500	.07229
#1	3397.1	2813.3	57334.	3198.4
#2	3387.2	2812.7	57427.	3195.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.804%	98.563%	95.093%	102.47%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 16:56:27 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93310**	**47.496**	**.97471**	**.95892**	**1.0067**	**.98143**	**47.811**	**.93799**
Stddev	.00016	.098	.00249	.00031	.0019	.00039	.052	.00013
%RSD	.01755	.20575	.25553	.03262	.18813	.03957	.10818	.01353
#1	.93322	47.565	.97295	.95914	1.0054	.98170	47.847	.93790
#2	.93298	47.427	.97647	.95870	1.0081	.98115	47.774	.93808
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9892**	**1.0062**	**.96428**	**.97606**	**48.050**	**48.808**	**.93134**	**46.806**
Stddev	.0031	.0015	.00084	.00056	.008	.110	.00428	.005
%RSD	.3088	.15054	.08707	.05752	.01586	.22487	.45918	.01160
#1	.9913	1.0072	.96488	.97645	48.055	48.731	.92832	46.802
#2	.9870	1.0051	.96369	.97566	48.044	48.886	.93437	46.810
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97172**	**.99717**	**48.835**	**.98789**	z *****	**1.0003**	**24.83**	**.94886**
Stddev	.00162	.00421	.081	.00084	-----	.0006	.02	.00014
%RSD	.16640	.42229	.16490	.08516	-----	.06019	.0914	.01463
#1	.97057	.99419	48.778	.98848	z 9258.	1.0007	24.84	.94895
#2	.97286	1.0001	48.892	.98729	z 9248.	.99983	24.81	.94876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 16:56:27 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96489	9.2835	1.0077	.96774	.9770	.98020	1.0016	.98247
Stddev	.00062	.0728	.0032	.00113	.0315	.00124	.0003	.00061
%RSD	.06455	.78441	.31588	.11725	3.224	.12616	.02947	.06196
#1	.96533	9.2320	1.0100	.96693	.9547	.98107	1.0014	.98290
#2	.96445	9.3350	1.0055	.96854	.9993	.97932	1.0018	.98204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0178	.9137
Stddev	.0005	.0041
%RSD	.05352	.4493
#1	1.0174	.9108
#2	1.0181	.9166
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3234.0	2812.7	56738.	3160.5
Stddev	2.0	.9	170.	11.6
%RSD	.06299	.03271	.29983	.36574
#1	3232.6	2813.4	56617.	3152.3
#2	3235.4	2812.1	56858.	3168.6

Sample Name: CCB-6597963 Acquired: 8/10/2021 17:00:03 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00033**	**.00970**	**.00153**	**-.00256**	**.00009**	**-.00002**	**-.00275**	**-.00003**
Stddev	.00023	.00624	.00270	.00018	.00000	.00001	.00073	.00004
%RSD	70.644	64.314	176.07	7.0007	5.2715	36.574	26.611	140.84
#1	-.00016	.00529	-.00038	-.00243	.00008	-.00002	-.00223	-.00005
#2	-.00049	.01411	.00344	-.00268	.00009	-.00001	-.00326	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0085**	**.00016**	**-.00002**	**-.00008**	**.00470**	**-.13276**	**-.00088**	**.00049**
Stddev	.0186	.00001	.00021	.00062	.00023	.02449	.00022	.00098
%RSD	218.0	7.1889	927.64	827.57	4.9979	18.446	25.143	202.21
#1	.0216	.00016	.00012	.00037	.00454	-.11545	-.00072	-.00021
#2	-.0046	.00015	-.00017	-.00052	.00487	-.15008	-.00104	.00118
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00001**	**.00040**	**.01411**	**-.00017**	z *****	**.00059**	**.0047**	**-.00016**
Stddev	.00005	.00124	.00403	.00025	-----	.00039	.0025	.00074
%RSD	672.83	312.98	28.557	150.10	-----	66.574	53.30	461.86
#1	.00004	.00127	.01126	.00001	z 136.3	.00031	.0064	-.00069
#2	-.00003	-.00048	.01696	-.00035	z 137.3	.00087	.0029	.00036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 17:00:03 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00506	-.00329	.00051	.00002	-.0026	.00020	-.00057	.00003
Stddev	.00018	.00545	.00013	.00005	.0048	.00016	.00119	.00012
%RSD	3.4964	165.82	25.582	191.15	183.1	80.928	210.04	412.04
#1	.00493	.00057	.00042	.00006	.0008	.00031	-.00141	-.00006
#2	.00518	-.00714	.00060	-.00001	-.0061	.00008	.00028	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00003	-.0008
Stddev	.00064	.0002
%RSD	1821.2	27.89
#1	-.00041	-.0010
#2	.00048	-.0007
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3768.1	2926.2	60659.	3185.5
Stddev	3.1	9.0	114.	13.4
%RSD	.08229	.30882	.18788	.42039
#1	3765.9	2919.8	60578.	3176.1
#2	3770.3	2932.6	60740.	3195.0

Sample Name: CCVL-6603764 Acquired: 8/10/2021 17:03:54 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00521**	**.19136**	**.01349**	**.01540**	**.00220**	**.00192**	**.47953**
Stddev	.00034	.00554	.00048	.00055	.00002	.00000	.00230
%RSD	6.5572	2.8948	3.5405	3.5648	.76811	.11438	.47918
#1	.00545	.19527	.01315	.01579	.00221	.00192	.47790
#2	.00497	.18744	.01382	.01501	.00219	.00192	.48115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**-.0060**	**.00409**	**.00381**	**.00955**	**.04510**	W **.33879**
Stddev	.00001	.0017	.00005	.00020	.00032	.00443	.00933
%RSD	.27237	28.61	1.1318	5.2611	3.3959	9.8282	2.7544
#1	.00191	-.0073	.00412	.00367	.00978	.04197	.34539
#2	.00191	-.0048	.00405	.00395	.00932	.04824	.33220
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02645**	**.19044**	**.00314**	F **.00431**	**1.0015**	**.00957**	z *****
Stddev	.00128	.00057	.00003	.00011	.0001	.00006	-----
%RSD	4.8345	.30141	1.0565	2.6252	.00600	.63615	-----
#1	.02736	.19085	.00312	.00439	1.0015	.00961	z 135.8
#2	.02555	.19003	.00316	.00423	1.0014	.00953	z 135.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 17:03:54 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00992**	**.1917**	**.01789**	**.02347**	**.43966**	**.00905**	**.00472**
Stddev	.00020	.0021	.00033	.00263	.00275	.00011	.00001
%RSD	1.9919	1.113	1.8371	11.187	.62480	1.2531	.27228
#1	.01006	.1902	.01812	.02161	.43772	.00913	.00471
#2	.00978	.1932	.01766	.02533	.44161	.00897	.00473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0048**	**.00461**	**.01908**	**.00480**	**.00989**	**.0004**
Stddev	.0110	.00015	.00145	.00002	.00071	.0004
%RSD	229.4	3.2932	7.6145	.40809	7.1752	88.52
#1	-.0125	.00450	.02011	.00481	.00939	.0001
#2	.0030	.00471	.01805	.00478	.01039	.0006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3748.8**	**2930.4**	**60811.**	**3195.7**
Stddev	3.8	1.2	39.	4.6
%RSD	.10124	.04125	.06341	.14528
#1	3751.5	2931.2	60838.	3199.0
#2	3746.2	2929.5	60784.	3192.4

Sample Name: 480-188016-B-6-A Acquired: 8/10/2021 17:07:45 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.03232**	**-.00088**	**.00864**	**.03579**
Stddev	.00006	.01745	.00129	.00012	.00003
%RSD	23.451	53.982	146.49	1.4204	.09409
#1	.00020	.04466	-.00179	.00872	.03576
#2	.00028	.01999	.00003	.00855	.03581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**69.442**	**-.00002**	**.0321**	**.00016**
Stddev	.00006	.141	.00001	.0006	.00001
%RSD	358.92	.20358	58.417	1.963	8.3099
#1	-.00006	69.542	-.00003	.0325	.00015
#2	.00002	69.342	-.00001	.0316	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00018**	**.00603**	**1.0238**	**.00160**
Stddev	.00026	.00008	.00016	.0242	.00006
%RSD	107.03	42.781	2.7306	2.3628	3.7770
#1	.00043	.00013	.00614	1.0409	.00164
#2	.00006	.00024	.00591	1.0067	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-6-A Acquired: 8/10/2021 17:07:45 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.5215**	**.00168**	**-.00670**	**125.12**	**.00012**
Stddev	.0300	.00002	.00000	.27	.00018
%RSD	.39842	1.0163	.04699	.21904	155.49
#1	7.5427	.00169	-.00670	125.32	-.00001
#2	7.5003	.00167	-.00670	124.93	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00089**	**11.85**	**-.00229**	**-.00416**
Stddev	-----	.00098	.02	.00003	.00200
%RSD	-----	110.71	.1751	1.1417	48.032
#1	z 161.9	.00019	11.87	-.00230	-.00275
#2	z 161.9	.00158	11.84	-.00227	-.00558
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4920**	**-.00054**	**.33223**	**-.0040**	**.00031**
Stddev	.0111	.00003	.00092	.0016	.00005
%RSD	.44390	6.0376	.27829	41.25	16.404
#1	2.4999	-.00052	.33157	-.0028	.00028
#2	2.4842	-.00056	.33288	-.0051	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-6-A Acquired: 8/10/2021 17:07:45 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**-.00023**	**.00389**	**.0005**
Stddev	.00039	.00010	.00032	.0004
%RSD	129.16	41.268	8.1665	85.78
#1	-.00058	-.00030	.00411	.0007
#2	-.00003	-.00017	.00366	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3276.1**	**2772.2**	**56339.**	**3181.6**
Stddev	.2	5.5	157.	10.4
%RSD	.00628	.19940	.27850	.32723
#1	3275.9	2776.1	56228.	3174.2
#2	3276.2	2768.3	56450.	3189.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.731%	97.133%	93.368%	101.99%
Range				

Sample Name: 480-188016-B-7-A Acquired: 8/10/2021 17:11:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.03578**	**-.00143**	**.00745**	**.02035**
Stddev	.00018	.01841	.00028	.00035	.00001
%RSD	39.972	51.463	19.712	4.6819	.02867
#1	-.00032	.02276	-.00123	.00720	.02034
#2	-.00057	.04880	-.00162	.00769	.02035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**63.606**	**.00008**	**-.0066**	**.00008**
Stddev	.00004	.010	.00002	.0248	.00008
%RSD	33.599	.01587	19.950	374.9	93.377
#1	-.00013	63.599	.00009	.0109	.00003
#2	-.00008	63.613	.00007	-.0242	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00046**	**-.00270**	**2.1723**	**.00365**
Stddev	.00014	.00006	.00141	.0196	.00009
%RSD	88.523	12.470	52.370	.90087	2.4967
#1	.00026	.00050	-.00170	2.1862	.00359
#2	.00006	.00042	-.00370	2.1585	.00371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-7-A Acquired: 8/10/2021 17:11:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3124**	**.00044**	**-.00740**	**41.318**	**-.00019**
Stddev	.0075	.00005	.00010	.083	.00009
%RSD	.14174	11.022	1.3407	.20012	49.181
#1	5.3177	.00047	-.00733	41.260	-.00025
#2	5.3071	.00040	-.00747	41.377	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00117**	**4.969**	**-.00123**	**-.00050**
Stddev	-----	.00088	.014	.00124	.00499
%RSD	-----	74.797	.2902	101.21	997.00
#1	z 154.1	.00180	4.959	-.00210	.00303
#2	z 155.6	.00055	4.979	-.00035	-.00403
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7125**	**-.00057**	**.25325**	**-.0058**	**.00027**
Stddev	.0043	.00070	.00059	.0172	.00016
%RSD	.11697	122.16	.23288	295.6	59.947
#1	3.7094	-.00008	.25283	-.0180	.00015
#2	3.7155	-.00107	.25367	.0064	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-7-A Acquired: 8/10/2021 17:11:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00024**	**.00245**	**-.0010**
Stddev	.00054	.00016	.00019	.0003
%RSD	1075.6	68.420	7.6005	34.45
#1	-.00033	.00012	.00258	-.0007
#2	.00043	.00035	.00232	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3410.6**	**2813.5**	**57873.**	**3167.9**
Stddev	1.5	1.4	132.	21.2
%RSD	.04426	.04800	.22861	.66803
#1	3409.5	2812.6	57780.	3182.8
#2	3411.7	2814.5	57967.	3152.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.293%	98.581%	95.910%	101.55%
Range				

Sample Name: 480-188016-B-8-A Acquired: 8/10/2021 17:15:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.03004**	**-.00038**	**.03290**	**.02945**
Stddev	.00031	.01392	.00178	.00046	.00005
%RSD	61.543	46.339	465.73	1.3843	.16127
#1	-.00028	.02020	-.00164	.03322	.02949
#2	-.00072	.03988	.00088	.03258	.02942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**95.804**	**.00011**	**-.0032**	**.00237**
Stddev	.00005	.083	.00012	.0079	.00019
%RSD	80.379	.08664	114.24	246.4	8.1313
#1	-.00002	95.745	.00019	.0024	.00251
#2	-.00009	95.863	.00002	-.0088	.00223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00143**	**.00162**	**.00865**	**2.0746**	**.00680**
Stddev	.00012	.00010	.00041	.0051	.00002
%RSD	8.0415	5.8983	4.6956	.24649	.28103
#1	.00135	.00155	.00894	2.0710	.00681
#2	.00151	.00168	.00836	2.0783	.00678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-8-A Acquired: 8/10/2021 17:15:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4807**	**.33103**	**-.00710**	**120.68**	**.01895**
Stddev	.0233	.00044	.00003	.25	.00017
%RSD	.24605	.13359	.45654	.20804	.91266
#1	9.4972	.33134	-.00707	120.85	.01908
#2	9.4642	.33071	-.00712	120.50	.01883
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00115**	**12.10**	**-.00130**	**-.00710**
Stddev	-----	.00199	.01	.00100	.00084
%RSD	-----	172.64	.0715	77.117	11.782
#1	z 161.4	-.00025	12.11	-.00201	-.00650
#2	z 161.6	.00256	12.10	-.00059	-.00769
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0345**	**-.00103**	**.63354**	**.0074**	**.00010**
Stddev	.0065	.00010	.00221	.0088	.00002
%RSD	.12891	9.3912	.34937	119.8	15.667
#1	5.0391	-.00110	.63510	.0136	.00011
#2	5.0299	-.00096	.63197	.0011	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-8-A Acquired: 8/10/2021 17:15:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00015**	**.00077**	**-.0003**
Stddev	.00117	.00013	.00011	.0007
%RSD	210.68	89.206	13.845	194.5
#1	-.00139	.00024	.00069	.0001
#2	.00027	.00005	.00084	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3250.6**	**2749.2**	**56045.**	**3155.8**
Stddev	.1	6.4	126.	8.9
%RSD	.00419	.23337	.22552	.28225
#1	3250.6	2744.7	55956.	3162.1
#2	3250.7	2753.7	56135.	3149.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.059%	96.328%	92.881%	101.16%
Range				

Sample Name: 480-188016-B-9-A Acquired: 8/10/2021 17:19:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.01991**	**-.00202**	**.00814**	**.04578**
Stddev	.00008	.00492	.00069	.00027	.00001
%RSD	140.23	24.689	34.382	3.3320	.02919
#1	-.00000	.02339	-.00251	.00795	.04579
#2	-.00012	.01643	-.00153	.00833	.04577
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**113.32**	**.00007**	**.0313**	**-.00004**
Stddev	.00010	.37	.00007	.0051	.00001
%RSD	447.02	.32681	88.410	16.47	18.766
#1	-.00009	113.58	.00012	.0276	-.00003
#2	.00005	113.05	.00003	.0349	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00056**	**.00758**	**-.00180**	**.83692**	**.00701**
Stddev	.00031	.00002	.00141	.03451	.00099
%RSD	55.804	.25299	78.430	4.1228	14.167
#1	.00078	.00756	-.00080	.86132	.00631
#2	.00034	.00759	-.00280	.81253	.00771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-9-A Acquired: 8/10/2021 17:19:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.374**	**.00060**	**-.00693**	**18.238**	**.00292**
Stddev	.013	.00006	.00006	.030	.00031
%RSD	.12646	10.140	.85067	.16417	10.677
#1	10.383	.00056	-.00697	18.259	.00314
#2	10.364	.00064	-.00689	18.217	.00270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00002**	**15.35**	**-.00160**	**-.00403**
Stddev	-----	.00003	.01	.00038	.00258
%RSD	-----	204.27	.0684	23.990	64.108
#1	z 160.1	-.00001	15.36	-.00132	-.00220
#2	z 160.8	.00004	15.34	-.00187	-.00585
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4970**	**-.00022**	**.68467**	**.0023**	**.00035**
Stddev	.0402	.00026	.00148	.0120	.00020
%RSD	1.1483	117.32	.21602	521.0	58.473
#1	3.4686	-.00004	.68571	-.0062	.00020
#2	3.5253	-.00040	.68362	.0107	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-9-A Acquired: 8/10/2021 17:19:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00110**	**-.00022**	**.00607**	**.0008**
Stddev	.00003	.00011	.00049	.0002
%RSD	2.3300	49.060	8.0619	31.28
#1	.00108	-.00029	.00642	.0006
#2	.00112	-.00014	.00573	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3376.6**	**2776.3**	**57198.**	**3161.5**
Stddev	2.7	1.2	39.	7.7
%RSD	.08062	.04360	.06841	.24492
#1	3378.5	2777.1	57170.	3156.0
#2	3374.6	2775.4	57225.	3167.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.392%	97.276%	94.790%	101.34%
Range				

Sample Name: 480-188016-B-10-A Acquired: 8/10/2021 17:22:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.04679**	**-.00162**	**.01448**	**.02747**
Stddev	.00031	.01707	.00244	.00013	.00003
%RSD	179.95	36.486	150.36	.87494	.10108
#1	-.00039	.03472	.00010	.01439	.02745
#2	.00005	.05886	-.00335	.01457	.02749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**74.635**	**-.00001**	**-.0100**	**.00007**
Stddev	.00007	.010	.00001	.0124	.00015
%RSD	186.84	.01365	99.406	124.1	209.73
#1	.00001	74.642	-.00001	-.0012	-.00003
#2	-.00008	74.628	-.00000	-.0187	.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00284**	**.00027**	**.01122**	**.83007**	**.00523**
Stddev	.00006	.00010	.00041	.02038	.00109
%RSD	2.1323	38.200	3.6884	2.4548	20.931
#1	.00280	.00034	.01093	.84448	.00445
#2	.00288	.00020	.01152	.81566	.00600
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-10-A Acquired: 8/10/2021 17:22:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9902**	**.00122**	**-.00741**	**88.555**	**.00246**
Stddev	.0046	.00003	.00006	.192	.00018
%RSD	.07715	2.4304	.74284	.21704	7.1794
#1	5.9870	.00119	-.00745	88.691	.00234
#2	5.9935	.00124	-.00737	88.419	.00259
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00072**	**8.276**	**-.00115**	**-.00451**
Stddev	-----	.00057	.005	.00118	.00003
%RSD	-----	78.652	.0650	102.55	.55647
#1	z 156.7	.00112	8.272	-.00199	-.00449
#2	z 156.5	.00032	8.280	-.00032	-.00453
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8299**	**.00020**	**.34999**	**-.0054**	**.00053**
Stddev	.0014	.00028	.00036	.0041	.00007
%RSD	.03759	138.80	.10239	75.22	13.156
#1	3.8309	.00040	.35024	-.0083	.00058
#2	3.8289	.00000	.34974	-.0025	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-10-A Acquired: 8/10/2021 17:22:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00084**	**-.00014**	**.00052**	**-.0001**
Stddev	.00042	.00025	.00006	.0009
%RSD	49.990	173.81	11.532	1828.
#1	-.00054	.00003	.00048	.0006
#2	-.00113	-.00032	.00056	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3316.8**	**2781.7**	**57171.**	**3187.6**
Stddev	1.7	.7	137.	2.0
%RSD	.04983	.02437	.24006	.06169
#1	3318.0	2782.2	57268.	3189.0
#2	3315.6	2781.2	57074.	3186.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.810%	97.467%	94.746%	102.18%
Range				

Sample Name: 480-188016-B-11-A Acquired: 8/10/2021 17:26:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.01794**	**-.00258**	**.00803**	**.04546**
Stddev	.00037	.03659	.00039	.00058	.00013
%RSD	741.98	203.92	15.180	7.2709	.27717
#1	.00031	-.00793	-.00230	.00762	.04555
#2	-.00021	.04382	-.00285	.00845	.04537
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**110.60**	**.00019**	**-.0093**	**-.00006**
Stddev	.00000	.26	.00007	.0061	.00010
%RSD	14.626	.23109	35.995	65.52	186.24
#1	.00003	110.78	.00014	-.0050	-.00013
#2	.00003	110.42	.00024	-.0137	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00124**	**.00341**	**1.0890**	**.00640**
Stddev	.00027	.00040	.00162	.0059	.00065
%RSD	41.166	31.882	47.436	.53962	10.125
#1	.00047	.00152	.00455	1.0931	.00686
#2	.00085	.00096	.00226	1.0848	.00594
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-11-A Acquired: 8/10/2021 17:26:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.180**	**.00107**	**-.00671**	**17.993**	**.00327**
Stddev	.056	.00007	.00014	.018	.00002
%RSD	.54722	6.9280	2.0236	.09788	.59743
#1	10.219	.00112	-.00681	18.005	.00325
#2	10.140	.00102	-.00662	17.980	.00328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00008**	**15.33**	**-.00121**	**-.00352**
Stddev	-----	.00012	.01	.00115	.00212
%RSD	-----	153.95	.0358	94.647	60.105
#1	z 160.5	-.00016	15.33	-.00203	-.00203
#2	z 159.2	.00001	15.34	-.00040	-.00502
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4139**	**-.00028**	**.67436**	**-.0157**	**.00117**
Stddev	.0321	.00073	.00084	.0015	.00004
%RSD	.93979	265.14	.12462	9.755	3.4335
#1	3.3912	.00024	.67496	-.0168	.00114
#2	3.4366	-.00079	.67377	-.0146	.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-11-A Acquired: 8/10/2021 17:26:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00040**	**.00187**	**.0003**
Stddev	.00064	.00005	.00018	.0007
%RSD	436.25	13.406	9.4353	206.2
#1	-.00060	.00036	.00199	.0008
#2	.00030	.00044	.00174	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3381.3**	**2784.2**	**57545.**	**3183.6**
Stddev	1.3	2.2	68.	10.8
%RSD	.03945	.08051	.11903	.34012
#1	3382.2	2785.8	57497.	3191.2
#2	3380.3	2782.7	57593.	3175.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.517%	97.555%	95.366%	102.05%
Range				

Sample Name: MB 480-592207/1-A Acquired: 8/10/2021 17:30:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.01545**	**-.00068**	**-.00334**	**.00014**
Stddev	.00069	.00650	.00131	.00007	.00002
%RSD	434.21	42.111	191.80	2.0397	14.802
#1	-.00033	.01085	-.00161	-.00329	.00015
#2	.00065	.02005	.00024	-.00338	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.02730**	**-.00001**	**-.0256**	**.00017**
Stddev	.00007	.00527	.00000	.0092	.00002
%RSD	841.72	19.306	40.593	35.76	12.613
#1	-.00006	.03103	-.00000	-.0321	.00015
#2	.00004	.02358	-.00001	-.0191	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**-.00012**	**.00776**	**-.18375**	**.00167**
Stddev	.00035	.00047	.00128	.01951	.00078
%RSD	117.53	376.93	16.492	10.618	46.285
#1	.00054	.00021	.00685	-.16995	.00113
#2	.00005	-.00046	.00866	-.19754	.00222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592207/1-A Acquired: 8/10/2021 17:30:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00057**	F **-.00776**	**.00619**	**.00012**
Stddev	.00119	.00002	.00011	.00294	.00012
%RSD	83.592	4.0475	1.3739	47.511	107.45
#1	.00058	.00059	-.00784	.00411	.00020
#2	.00226	.00056	-.00769	.00827	.00003
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.00500		
Low Limit			-.00500		

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00094**	**.0104**	**-.00089**	**.00159**
Stddev	-----	.00011	.0007	.00157	.00001
%RSD	-----	11.189	6.343	176.53	.72978
#1	z 141.4	.00102	.0108	-.00199	.00158
#2	z 141.6	.00087	.0099	.00022	.00159
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25116**	F **.03329**	**.00010**	**-.0096**	**.00025**
Stddev	.01535	.00109	.00002	.0108	.00008
%RSD	6.1107	3.2678	18.015	112.6	30.687
#1	.26202	.03406	.00011	-.0020	.00030
#2	.24031	.03253	.00008	-.0173	.00019
Check ?	Chk Pass	Chk Fail	Chk Pass	None	Chk Pass
High Limit		.01000			
Low Limit		-.01000			

Sample Name: MB 480-592207/1-A Acquired: 8/10/2021 17:30:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00022**	**.00189**	**-.0002**
Stddev	.00073	.00003	.00060	.0001
%RSD	516.18	11.929	31.553	44.93
#1	-.00038	-.00020	.00231	-.0001
#2	.00066	-.00024	.00147	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3800.0**	**2942.3**	**61578.**	**3251.5**
Stddev	3.6	.2	40.	.9
%RSD	.09492	.00565	.06490	.02629
#1	3802.6	2942.4	61606.	3250.8
#2	3797.5	2942.2	61550.	3252.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.60%	103.09%	102.05%	104.23%
Range				

Sample Name: LCSSRM 480-592207/2- Acquired: 8/10/2021 17:34:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.20423	84.252	1.4062	2.6155	1.3277
Stddev	.00086	.408	.0036	.0070	.0003
%RSD	.41897	.48381	.25412	.26618	.02541
#1	.20363	83.963	1.4087	2.6204	1.3275
#2	.20484	84.540	1.4036	2.6106	1.3279
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.6317	41.968	1.2923	1.013	1.0689
Stddev	.0020	.047	.0014	.012	.0003
%RSD	.12371	.11283	.11027	1.219	.02815
#1	1.6303	41.935	1.2933	1.005	1.0691
#2	1.6332	42.001	1.2913	1.022	1.0687
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	1.0901	1.2823	120.76	19.977	.06544
Stddev	.0008	.0024	.00	.035	.00030
%RSD	.07601	.19012	.00353	.17751	.45396
#1	1.0907	1.2840	120.76	19.952	.06565
#2	1.0895	1.2806	120.75	20.002	.06523
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-592207/2- Acquired: 8/10/2021 17:34:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.673**	**3.0271**	**.42554**	**1.4651**	**.91146**
Stddev	.036	.0086	.00211	.0018	.00000
%RSD	.17236	.28538	.49632	.12242	.00024
#1	20.698	3.0210	.42405	1.4664	.91146
#2	20.648	3.0332	.42704	1.4639	.91146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.76411**	**.6956**	**.76355**	**1.5434**
Stddev	-----	.00100	.0048	.00361	.0064
%RSD	-----	.13095	.6877	.47314	.41339
#1	^ -----	.76482	.6990	.76610	1.5479
#2	^ -----	.76340	.6922	.76099	1.5389
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5689**	**.91273**	**.95156**	**.2874**	**4.2388**
Stddev	.0022	.00217	.00006	.0130	.0069
%RSD	.08544	.23765	.00663	4.534	.16365
#1	2.5674	.91119	.95161	.2966	4.2437
#2	2.5705	.91426	.95152	.2782	4.2339
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCSSRM 480-592207/2- Acquired: 8/10/2021 17:34:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.95033**	**.92345**	**2.9409**	**.0593**
Stddev	.00159	.00065	.0227	.0013
%RSD	.16710	.07009	.77194	2.169
#1	.94920	.92391	2.9569	.0602
#2	.95145	.92299	2.9248	.0584
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3296.8**	**3162.5**	**64722.**	**3590.4**
Stddev	1.8	1.9	86.	3.9
%RSD	.05548	.05909	.13303	.10873
#1	3298.1	3163.8	64661.	3593.2
#2	3295.5	3161.1	64783.	3587.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.280%	110.81%	107.26%	115.09%
Range				

Sample Name: LCDSRM 480-592207/3- Acquired: 8/10/2021 17:38:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18698**	**79.761**	**1.3398**	**2.4591**	**1.2224**
Stddev	.00023	.120	.0028	.0044	.0013
%RSD	.12175	.15107	.21165	.17829	.10503
#1	.18714	79.676	1.3418	2.4622	1.2215
#2	.18682	79.846	1.3378	2.4560	1.2233
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5117**	**40.658**	**1.2259**	**.8149**	**.97801**
Stddev	.0001	.036	.0019	.0139	.00074
%RSD	.00365	.08812	.15706	1.702	.07531
#1	1.5116	40.633	1.2273	.8051	.97853
#2	1.5117	40.683	1.2246	.8247	.97749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0180**	**1.2080**	**110.03**	**19.182**	**.05896**
Stddev	.0005	.0012	.34	.002	.00007
%RSD	.04825	.10233	.31190	.01085	.11074
#1	1.0184	1.2089	109.79	19.180	.05892
#2	1.0177	1.2071	110.27	19.183	.05901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCDSRM 480-592207/3- Acquired: 8/10/2021 17:38:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.290**	**2.8311**	**.40673**	**1.3569**	**.83375**
Stddev	.017	.0033	.00018	.0040	.00026
%RSD	.08671	.11731	.04337	.29546	.03172
#1	19.302	2.8334	.40686	1.3541	.83356
#2	19.279	2.8287	.40661	1.3598	.83393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.71915**	**.6609**	**.74719**	**1.4654**
Stddev	-----	.00376	.0044	.00368	.0078
%RSD	-----	.52333	.6680	.49295	.52976
#1	^ -----	.72182	.6640	.74980	1.4709
#2	^ -----	.71649	.6577	.74459	1.4599
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7501**	**.84797**	**.88804**	**.2373**	**3.8954**
Stddev	.0027	.00138	.00085	.0152	.0052
%RSD	.09981	.16249	.09584	6.400	.13403
#1	2.7520	.84895	.88743	.2480	3.8991
#2	2.7481	.84700	.88864	.2266	3.8917
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCDSRM 480-592207/3- Acquired: 8/10/2021 17:38:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.86321**	**.86169**	**2.7688**	**.0562**
Stddev	.00212	.00052	.0001	.0024
%RSD	.24519	.05980	.00313	4.318
#1	.86471	.86205	2.7687	.0544
#2	.86172	.86132	2.7688	.0579
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3320.5**	**3112.3**	**63671.**	**3521.7**
Stddev	1.0	3.6	65.	5.9
%RSD	.02907	.11726	.10191	.16639
#1	3321.2	3109.7	63625.	3517.6
#2	3319.8	3114.9	63717.	3525.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.908%	109.05%	105.52%	112.89%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 17:41:47 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.92638**	**47.480**	**.96658**	**.95748**	**1.0061**	**.98282**	**48.001**	**.93607**
Stddev	.00136	.014	.00048	.00169	.0014	.00075	.002	.00001
%RSD	.14718	.02886	.04957	.17641	.13849	.07594	.00492	.00059
#1	.92734	47.470	.96691	.95868	1.0052	.98334	48.003	.93607
#2	.92541	47.489	.96624	.95629	1.0071	.98229	47.999	.93607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9725**	**1.0039**	**.96313**	**.97484**	**48.017**	**48.941**	**.92831**	**46.548**
Stddev	.0284	.0008	.00451	.00179	.040	.056	.00147	.146
%RSD	2.919	.07523	.46875	.18320	.08378	.11393	.15806	.31310
#1	.9925	1.0034	.95993	.97611	47.988	48.902	.92728	46.445
#2	.9524	1.0044	.96632	.97358	48.045	48.981	.92935	46.651
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.96719**	**.99999**	**48.888**	**.98477**	z *****	**.99988**	**24.69**	**.94815**
Stddev	.00233	.00360	.009	.00181	-----	.00199	.04	.00094
%RSD	.24060	.36031	.01933	.18407	-----	.19951	.1497	.09918
#1	.96554	.99744	48.881	.98349	z 9198.	.99847	24.72	.94881
#2	.96883	1.0025	48.895	.98605	z 9213.	1.0013	24.67	.94748
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 17:41:47 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96392	9.2471	1.0091	.96459	.9821	.98562	.99850	.98257
Stddev	.00061	.0222	.0008	.00023	.0198	.00120	.00053	.00232
%RSD	.06311	.24045	.08443	.02363	2.013	.12148	.05331	.23590
#1	.96435	9.2314	1.0085	.96475	.9682	.98477	.99812	.98093
#2	.96349	9.2628	1.0097	.96443	.9961	.98647	.99887	.98421
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0186	.9503
Stddev	.0032	.0004
%RSD	.31245	.0378
#1	1.0163	.9506
#2	1.0208	.9501
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3232.4	2812.0	56630.	3130.9
Stddev	.6	1.2	9.	1.1
%RSD	.01971	.04198	.01567	.03431
#1	3232.8	2811.2	56636.	3131.7
#2	3231.9	2812.9	56624.	3130.2

Sample Name: CCB-6597963 Acquired: 8/10/2021 17:45:24 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.02857**	**.00150**	**-.00041**	**.00024**	**-.00002**	**.00078**	**.00007**
Stddev	.00010	.00747	.00142	.00064	.00004	.00006	.00201	.00011
%RSD	40.083	26.158	94.531	154.98	16.946	357.94	258.07	151.77
#1	-.00018	.02328	.00050	.00004	.00021	-.00006	.00220	.00014
#2	-.00033	.03385	.00251	-.00087	.00026	.00002	-.00064	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**.00031**	**.00013**	**.00016**	**.00731**	**-.12203**	**-.00011**	**.00292**
Stddev	.0362	.00012	.00036	.00011	.00153	.04023	.00047	.00200
%RSD	2261.	37.005	271.32	67.366	20.947	32.966	427.20	68.712
#1	.0272	.00039	.00039	.00023	.00623	-.15047	-.00044	.00150
#2	-.0240	.00023	-.00012	.00008	.00839	-.09358	.00022	.00433
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00027**	**.00150**	**.00192**	**.00015**	z *****	**.00045**	**-.0017**	**-.00025**
Stddev	.00007	.00124	.00340	.00015	-----	.00010	.0003	.00012
%RSD	24.307	83.215	177.05	105.82	-----	23.299	20.25	47.482
#1	.00022	.00238	-.00048	.00026	z 138.1	.00037	-.0019	-.00017
#2	.00032	.00062	.00432	.00004	z 136.8	.00052	-.0014	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 17:45:24 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00784	.00167	-.00013	-.00001	.0051	.00060	-.00012	.00011
Stddev	.00106	.01113	.00045	.00007	.0003	.00005	.00111	.00003
%RSD	13.526	666.80	349.70	991.74	5.023	7.7033	959.76	22.353
#1	.00709	-.00620	.00019	.00004	.0053	.00057	-.00090	.00010
#2	.00859	.00954	-.00045	-.00005	.0049	.00063	.00067	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00050	.0005
Stddev	.00018	.0008
%RSD	36.515	163.1
#1	.00037	.0011
#2	.00063	-.0001
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3773.6	2921.4	60753.	3157.7
Stddev	6.8	6.6	115.	16.8
%RSD	.18074	.22561	.19008	.53107
#1	3768.8	2916.8	60835.	3145.8
#2	3778.5	2926.1	60672.	3169.6

Sample Name: CCVL-6603764 Acquired: 8/10/2021 17:49:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00542**	**.20425**	**.01598**	**.01687**	**.00220**	**.00187**	**.48866**
Stddev	.00016	.00853	.00161	.00020	.00001	.00004	.00428
%RSD	2.8643	4.1766	10.080	1.2028	.56006	2.3271	.87600
#1	.00553	.21028	.01711	.01701	.00219	.00184	.48563
#2	.00531	.19822	.01484	.01672	.00221	.00190	.49169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00189**	**-.0083**	**.00410**	**.00382**	**.00921**	**.04752**	W **.33369**
Stddev	.00008	.0021	.00009	.00036	.00018	.00199	.04016
%RSD	4.3810	25.08	2.1893	9.5314	2.0006	4.1945	12.034
#1	.00195	-.0098	.00416	.00356	.00908	.04893	.30530
#2	.00183	-.0069	.00404	.00408	.00934	.04611	.36209
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02694**	**.18948**	**.00315**	F **.00495**	**.99332**	**.00946**	z *****
Stddev	.00133	.00117	.00008	.00004	.00383	.00018	-----
%RSD	4.9444	.61530	2.4036	.88562	.38526	1.9095	-----
#1	.02788	.18865	.00321	.00492	.99062	.00934	z 136.4
#2	.02599	.19030	.00310	.00498	.99603	.00959	z 136.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 17:49:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00946**	**.1937**	**.01914**	**.02562**	**.44194**	**.00903**	**.00475**
Stddev	.00048	.0043	.00087	.00114	.02580	.00021	.00008
%RSD	5.0664	2.245	4.5520	4.4443	5.8383	2.2997	1.6949
#1	.00980	.1968	.01852	.02642	.46018	.00918	.00480
#2	.00912	.1906	.01975	.02481	.42369	.00889	.00469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0015**	**.00495**	**.01842**	**.00498**	**.00967**	**.0006**
Stddev	.0001	.00014	.00083	.00022	.00050	.0001
%RSD	10.01	2.7664	4.5142	4.3759	5.1429	17.36
#1	.0016	.00505	.01900	.00514	.01002	.0006
#2	.0014	.00486	.01783	.00483	.00931	.0007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3749.9**	**2920.9**	**60690.**	**3162.9**
Stddev	2.5	3.1	18.	19.9
%RSD	.06662	.10452	.03007	.62886
#1	3748.1	2918.8	60677.	3177.0
#2	3751.7	2923.1	60702.	3148.9

Sample Name: 480-187966-B-1-D Acquired: 8/10/2021 17:53:05 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.02141**	**.00696**	**.00210**	**.00218**
Stddev	.00024	.00557	.00022	.00023	.00001
%RSD	328.28	26.037	3.1894	10.740	.42787
#1	-.00024	.01747	.00680	.00226	.00219
#2	.00010	.02535	.00711	.00194	.00217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.16663**	**-.00011**	**-.0181**	**.00029**
Stddev	.00001	.00336	.00005	.0137	.00018
%RSD	13.046	2.0163	46.385	75.58	60.275
#1	-.00007	.16426	-.00008	-.0084	.00017
#2	-.00006	.16901	-.00015	-.0277	.00042
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00126**	**1.3213**	**.00316**	**.00081**
Stddev	.00008	.00003	.0136	.03399	.00018
%RSD	17.184	2.3800	1.0272	1076.6	21.978
#1	.00050	.00124	1.3309	-.02088	.00068
#2	.00039	.00128	1.3117	.02719	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187966-B-1-D Acquired: 8/10/2021 17:53:05 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02737**	**.01796**	**-.00674**	**1.9940**	**.00166**
Stddev	.00405	.00013	.00002	.0118	.00008
%RSD	14.780	.73534	.25587	.58962	4.9521
#1	.03023	.01805	-.00672	2.0023	.00160
#2	.02451	.01786	-.00675	1.9856	.00172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00072**	**.5633**	**.00011**	**.00187**
Stddev	-----	.00108	.0019	.00154	.00155
%RSD	-----	149.23	.3333	1348.7	82.939
#1	z 150.6	.00148	.5647	-.00097	.00077
#2	z 148.9	-.00004	.5620	.00120	.00297
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18138**	**.02985**	**.00146**	**.0079**	**.00018**
Stddev	.00360	.00089	.00009	.0011	.00005
%RSD	1.9838	2.9830	6.0743	13.98	26.544
#1	.17884	.03048	.00140	.0087	.00015
#2	.18393	.02922	.00152	.0071	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187966-B-1-D Acquired: 8/10/2021 17:53:05 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00014**	**.00526**	**.0012**
Stddev	.00026	.00011	.00039	.0007
%RSD	43.479	73.014	7.4861	57.05
#1	-.00078	-.00007	.00554	.0017
#2	-.00041	-.00022	.00498	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3772.7**	**2930.8**	**61230.**	**3226.4**
Stddev	1.0	2.3	61.	23.9
%RSD	.02634	.07913	.10031	.73939
#1	3773.4	2929.1	61273.	3209.5
#2	3772.0	2932.4	61186.	3243.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.878%	102.69%	101.47%	103.42%
Range				

Sample Name: 480-187966-B-1-DSD@5 Acquired: 8/10/2021 17:56:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.01626**	**.00152**	**-.00059**	**.00107**
Stddev	.00045	.01778	.00137	.00022	.00001
%RSD	490.15	109.40	89.755	37.234	.88539
#1	.00041	.00368	.00249	-.00074	.00107
#2	-.00023	.02883	.00056	-.00043	.00108
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.05766**	**-.00008**	**-.0184**	**.00020**
Stddev	.00002	.00219	.00002	.0040	.00000
%RSD	121.49	3.8028	19.461	21.81	.56308
#1	-.00000	.05921	-.00007	-.0156	.00020
#2	-.00002	.05611	-.00009	-.0213	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00051**	**.26116**	**-.10756**	**-.00046**
Stddev	.00015	.00012	.00098	.02792	.00053
%RSD	133.57	24.420	.37429	25.957	115.02
#1	.00001	.00059	.26047	-.08781	-.00009
#2	.00022	.00042	.26185	-.12730	-.00083
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187966-B-1-DSD@5 Acquired: 8/10/2021 17:56:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00984**	**.00376**	**-.00722**	**.40667**	**.00020**
Stddev	.00386	.00007	.00010	.01031	.00006
%RSD	39.223	1.8323	1.3412	2.5351	28.471
#1	.01258	.00372	-.00716	.39938	.00024
#2	.00711	.00381	-.00729	.41396	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00029**	**.1071**	**.00135**	**.00195**
Stddev	-----	.00136	.0068	.00054	.00155
%RSD	-----	464.35	6.375	40.046	79.197
#1	z 138.0	-.00067	.1023	.00097	.00305
#2	z 138.0	.00125	.1119	.00173	.00086
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03593**	**.00550**	**.00037**	**.0063**	**-.00022**
Stddev	.03609	.00048	.00015	.0051	.00009
%RSD	100.45	8.7440	41.247	81.90	38.415
#1	.06144	.00516	.00026	.0099	-.00016
#2	.01041	.00584	.00048	.0026	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187966-B-1-DSD@5 Acquired: 8/10/2021 17:56:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00024**	**-.00015**	**.00233**	**-.0004**
Stddev	.00028	.00006	.00013	.0003
%RSD	116.52	42.654	5.7409	74.46
#1	.00045	-.00010	.00242	-.0006
#2	.00004	-.00020	.00223	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3773.7**	**2925.1**	**61162.**	**3201.8**
Stddev	3.8	3.9	221.	6.4
%RSD	.10028	.13224	.36176	.20117
#1	3771.1	2922.4	61005.	3206.4
#2	3776.4	2927.8	61318.	3197.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.907%	102.49%	101.36%	102.63%
Range				

Sample Name: 480-187966-B-1-DPDS Acquired: 8/10/2021 18:00:46 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09305**	**19.417**	**.41566**	**.38912**	**.44506**
Stddev	.00055	.004	.00201	.00069	.00183
%RSD	.59159	.02318	.48362	.17679	.41064
#1	.09267	19.420	.41424	.38864	.44635
#2	.09344	19.414	.41708	.38961	.44377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.42465**	**20.037**	**.39519**	**-.0050**	**.40779**
Stddev	.00082	.111	.00023	.0056	.00062
%RSD	.19380	.55367	.05757	112.9	.15090
#1	.42524	20.115	.39503	-.0090	.40735
#2	.42407	19.958	.39535	-.0010	.40822
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39526**	**.39893**	**20.431**	**20.357**	**.38067**
Stddev	.00000	.00039	.017	.043	.00058
%RSD	.00112	.09853	.08231	.20986	.15216
#1	.39526	.39866	20.419	20.387	.38108
#2	.39525	.39921	20.442	20.327	.38026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187966-B-1-DPDS Acquired: 8/10/2021 18:00:46 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.009**	**.41689**	**.41646**	**22.057**	**.40586**
Stddev	.012	.00089	.00160	.001	.00006
%RSD	.06392	.21435	.38520	.00576	.01545
#1	19.000	.41626	.41533	22.058	.40591
#2	19.017	.41752	.41760	22.057	.40582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.41282**	**.5193**	**.40645**	**.38813**
Stddev	-----	.00007	.0005	.00194	.00266
%RSD	-----	.01658	.0872	.47644	.68546
#1	z 188.3	.41287	.5196	.40782	.39002
#2	z 189.0	.41277	.5189	.40508	.38625
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.18413**	**.43335**	**.40420**	**.0174**	**.40911**
Stddev	.00449	.00036	.00027	.0033	.00132
%RSD	2.4375	.08409	.06777	19.04	.32338
#1	.18731	.43310	.40401	.0150	.40817
#2	.18096	.43361	.40440	.0197	.41004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187966-B-1-DPDS Acquired: 8/10/2021 18:00:46 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.41421**	**.40504**	**.41918**	**.0010**
Stddev	.00266	.00107	.00025	.0006
%RSD	.64253	.26530	.06055	65.03
#1	.41609	.40428	.41936	.0005
#2	.41232	.40580	.41900	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3443.8**	**2854.7**	**59108.**	**3186.6**
Stddev	.2	3.1	59.	12.3
%RSD	.00719	.10729	.09949	.38470
#1	3444.0	2856.9	59150.	3177.9
#2	3443.6	2852.6	59067.	3195.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.172%	100.03%	97.957%	102.15%
Range				

Sample Name: 480-188012-A-1-F Acquired: 8/10/2021 18:04:29 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.08383**	**.00021**	**.00839**	**.02593**
Stddev	.00037	.00734	.00025	.00028	.00000
%RSD	109.17	8.7595	120.02	3.3589	.01003
#1	.00008	.07863	.00038	.00819	.02593
#2	.00060	.08902	.00003	.00859	.02593
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**2.1571**	**-.00003**	**-.0115**	**.00024**
Stddev	.00009	.0046	.00000	.0087	.00006
%RSD	524.43	.21335	.67842	75.44	23.577
#1	.00008	2.1604	-.00003	-.0176	.00028
#2	-.00005	2.1539	-.00003	-.0054	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00075**	**.00845**	**.03834**	**9.5549**	**.00016**
Stddev	.00010	.00023	.00296	.0493	.00119
%RSD	13.181	2.7523	7.7317	.51654	739.64
#1	.00068	.00862	.04044	9.5898	-.00068
#2	.00082	.00829	.03624	9.5200	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188012-A-1-F Acquired: 8/10/2021 18:04:29 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.86109**	**.32001**	**-.00331**	**.01874**	**.00248**
Stddev	.00167	.00076	.00017	.00296	.00007
%RSD	.19377	.23658	5.0981	15.801	2.7655
#1	.85991	.32055	-.00319	.01664	.00253
#2	.86227	.31948	-.00343	.02083	.00243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00061**	**1.349**	**.00293**	**.00461**
Stddev	-----	.00029	.001	.00085	.00120
%RSD	-----	46.872	.0981	29.141	26.084
#1	z 912.1	.00041	1.350	.00353	.00546
#2	z 907.5	.00082	1.348	.00233	.00376
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07654**	**.03059**	**.00667**	**.0009**	**.00076**
Stddev	.01513	.00031	.00012	.0070	.00023
%RSD	19.768	1.0281	1.7754	817.9	31.100
#1	.08724	.03037	.00675	-.0041	.00092
#2	.06584	.03081	.00658	.0058	.00059
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188012-A-1-F Acquired: 8/10/2021 18:04:29 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00150**	**.00001**	**.01767**	**.0013**
Stddev	.00093	.00017	.00014	.0003
%RSD	61.997	2504.4	.81928	21.13
#1	-.00084	.00013	.01756	.0016
#2	-.00216	-.00012	.01777	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3733.1**	**2911.8**	**61102.**	**3226.2**
Stddev	1.8	1.3	73.	1.1
%RSD	.04813	.04629	.11889	.03547
#1	3734.3	2912.7	61051.	3225.4
#2	3731.8	2910.8	61154.	3227.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.830%	102.02%	101.26%	103.42%
Range				

Sample Name: 480-188012-A-2-F Acquired: 8/10/2021 18:08:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.39925**	**-.00249**	**.00780**	**.03925**
Stddev	.00011	.00127	.00085	.00051	.00005
%RSD	121.80	.31781	34.140	6.5188	.11722
#1	-.00016	.40015	-.00189	.00816	.03922
#2	-.00001	.39835	-.00309	.00744	.03929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**3.3691**	**-.00002**	**.0148**	**.00038**
Stddev	.00001	.0163	.00005	.0257	.00001
%RSD	35.013	.48223	213.18	173.6	1.9888
#1	.00002	3.3806	-.00005	-.0034	.00039
#2	.00003	3.3576	.00001	.0330	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**.00717**	**.34670**	**10.341**	**-.00059**
Stddev	.00004	.00015	.00668	.026	.00170
%RSD	4.4909	2.1089	1.9253	.25583	289.97
#1	.00091	.00707	.34198	10.360	.00062
#2	.00097	.00728	.35142	10.323	-.00179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188012-A-2-F Acquired: 8/10/2021 18:08:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2380**	**.11353**	**-.00643**	**.04208**	**.00201**
Stddev	.0081	.00023	.00021	.00176	.00005
%RSD	.65578	.19917	3.3373	4.1741	2.6198
#1	1.2438	.11369	-.00658	.04084	.00205
#2	1.2323	.11337	-.00627	.04332	.00197
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00070**	**1.156**	**.00203**	**.00118**
Stddev	-----	.00029	.002	.00128	.00309
%RSD	-----	41.491	.1553	63.412	260.93
#1	z 803.5	.00050	1.157	.00112	-.00100
#2	z 801.2	.00091	1.155	.00294	.00337
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.60973**	**.02941**	**.00848**	**.0052**	**.01636**
Stddev	.01948	.00024	.00006	.0037	.00127
%RSD	3.1946	.82660	.76557	71.96	7.7789
#1	.62351	.02924	.00852	.0078	.01546
#2	.59596	.02958	.00843	.0026	.01726
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188012-A-2-F Acquired: 8/10/2021 18:08:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00064**	**.01415**	**.0014**
Stddev	.00003	.00028	.00017	.0008
%RSD	5.9593	44.254	1.1926	58.70
#1	-.00057	.00084	.01403	.0008
#2	-.00052	.00044	.01427	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3715.6**	**2903.5**	**60735.**	**3234.4**
Stddev	7.1	6.1	186.	15.6
%RSD	.19038	.21107	.30626	.48255
#1	3720.6	2907.8	60603.	3223.4
#2	3710.6	2899.1	60866.	3245.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.367%	101.73%	100.65%	103.68%
Range				

Sample Name: 480-188012-A-3-E Acquired: 8/10/2021 18:12:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.04152**	**-.00045**	**.00704**	**.03919**
Stddev	.00037	.02126	.00127	.00049	.00003
%RSD	201.27	51.191	280.89	6.9648	.08216
#1	-.00008	.05655	.00045	.00669	.03917
#2	.00045	.02649	-.00135	.00739	.03921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**3.0136**	**-.00006**	**.0129**	**.00015**
Stddev	.00000	.0091	.00011	.0181	.00011
%RSD	1.7505	.30101	193.92	141.1	74.815
#1	-.00010	3.0072	-.00014	.0000	.00007
#2	-.00010	3.0200	.00002	.0257	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00618**	**.03322**	**11.523**	**-.00092**
Stddev	.00004	.00001	.00228	.025	.00044
%RSD	16.997	.12988	6.8787	.21342	47.463
#1	.00025	.00618	.03483	11.541	-.00123
#2	.00020	.00619	.03160	11.506	-.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188012-A-3-E Acquired: 8/10/2021 18:12:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3024**	**.34088**	**-.00699**	**.02118**	**.00133**
Stddev	.0078	.00026	.00002	.00171	.00001
%RSD	.59727	.07608	.33338	8.0769	.56091
#1	1.2969	.34070	-.00697	.02239	.00133
#2	1.3079	.34106	-.00701	.01997	.00132
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00064**	**1.378**	**-.00053**	**.00229**
Stddev	-----	.00049	.008	.00181	.00088
%RSD	-----	77.248	.5738	341.15	38.494
#1	z 1089.	.00029	1.373	-.00181	.00167
#2	z 1082.	.00099	1.384	.00075	.00292
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06462**	**.02258**	**.00414**	**.0008**	**.00018**
Stddev	.02030	.00060	.00004	.0024	.00022
%RSD	31.415	2.6695	.88687	305.3	123.67
#1	.07897	.02300	.00411	.0025	.00002
#2	.05027	.02215	.00417	-.0009	.00033
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188012-A-3-E Acquired: 8/10/2021 18:12:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00010**	**.01736**	**.0110**
Stddev	.00005	.00010	.00046	.0012
%RSD	23.925	98.263	2.6243	10.63
#1	-.00017	.00003	.01704	.0101
#2	-.00023	.00016	.01768	.0118
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3745.1**	**2907.3**	**61183.**	**3280.2**
Stddev	7.4	9.1	171.	1.7
%RSD	.19675	.31450	.27870	.05276
#1	3750.3	2913.8	61303.	3279.0
#2	3739.9	2900.8	61062.	3281.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.149%	101.87%	101.39%	105.15%
Range				

Sample Name: 480-187894-D-4-A@5 Acquired: 8/10/2021 18:15:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**62.552**	**.06551**	**.00402**	**.26496**
Stddev	.00012	.287	.00152	.00008	.00046
%RSD	8.1463	.45941	2.3253	1.8803	.17418
#1	.00162	62.348	.06444	.00407	.26529
#2	.00144	62.755	.06659	.00396	.26464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00239**	**3.5178**	**.00051**	**.3029**	**.03574**
Stddev	.00011	.0177	.00006	.0269	.00011
%RSD	4.5542	.50439	10.946	8.872	.29527
#1	.00247	3.5053	.00047	.3219	.03581
#2	.00232	3.5304	.00055	.2839	.03566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06339**	**.06336**	**123.63**	**7.0716**	**.10996**
Stddev	.00014	.00007	.88	.0436	.00121
%RSD	.22538	.11315	.71224	.61670	1.0999
#1	.06349	.06341	123.01	7.0408	.10911
#2	.06328	.06331	124.25	7.1024	.11082
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187894-D-4-A@5 Acquired: 8/10/2021 18:15:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.014**	**.82106**	**-.00439**	**.06860**	**.09101**
Stddev	.012	.00008	.00010	.00311	.00012
%RSD	.06335	.00919	2.3040	4.5314	.13455
#1	19.023	.82101	-.00432	.06641	.09109
#2	19.006	.82112	-.00447	.07080	.09092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.04238**	**.1162**	**.00028**	**-.00186**
Stddev	-----	.00141	.0055	.00068	.00125
%RSD	-----	3.3206	4.713	246.03	67.074
#1	z 792.8	.04139	.1201	.00076	-.00098
#2	z 792.0	.04338	.1123	-.00021	-.00274
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77683**	**.00776**	**.01997**	**.1454**	**.38465**
Stddev	.01704	.00011	.00002	.0038	.00146
%RSD	2.1938	1.4027	.10577	2.607	.37882
#1	.78888	.00784	.01996	.1427	.38362
#2	.76478	.00769	.01999	.1481	.38568
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187894-D-4-A@5 Acquired: 8/10/2021 18:15:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00097**	**.06900**	**.10898**	**.0374**
Stddev	.00066	.00026	.00054	.0010
%RSD	68.062	.38189	.49727	2.559
#1	-.00050	.06882	.10860	.0381
#2	-.00144	.06919	.10936	.0367
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3401.3**	**3446.8**	**70965.**	**3853.2**
Stddev	.2	2.8	2.	37.7
%RSD	.00553	.08004	.00269	.97914
#1	3401.2	3444.9	70967.	3879.9
#2	3401.4	3448.8	70964.	3826.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.047%	120.77%	117.61%	123.52%
Range				

Sample Name: 480-187894-B-15-A@5 Acquired: 8/10/2021 18:19:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**31.393**	**.04964**	**-.00140**	**.10329**
Stddev	.00011	.044	.00165	.00048	.00013
%RSD	27.191	.14055	3.3333	34.080	.12852
#1	.00033	31.424	.04847	-.00106	.10338
#2	.00048	31.362	.05081	-.00174	.10319
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00157**	**4.6448**	**.00078**	**.1845**	**.03168**
Stddev	.00003	.0190	.00008	.0197	.00012
%RSD	2.0190	.40997	10.582	10.69	.39024
#1	.00154	4.6582	.00084	.1985	.03159
#2	.00159	4.6313	.00072	.1706	.03176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04309**	**.02885**	**228.61**	**3.0163**	**.05580**
Stddev	.00037	.00007	1.10	.0226	.00142
%RSD	.84826	.23110	.48032	.74988	2.5519
#1	.04335	.02890	229.39	3.0323	.05681
#2	.04284	.02880	227.84	3.0003	.05480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187894-B-15-A@5 Acquired: 8/10/2021 18:19:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.224**	**.95465**	**-.00328**	**.08900**	**.06657**
Stddev	.026	.00296	.00007	.00073	.00018
%RSD	.19908	.30993	2.0043	.81636	.26813
#1	13.243	.95674	-.00324	.08849	.06669
#2	13.205	.95256	-.00333	.08951	.06644
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.03102**	**-.0199**	**-.00102**	**-.00111**
Stddev	-----	.00057	.0025	.00147	.00069
%RSD	-----	1.8221	12.35	144.54	62.194
#1	z 612.1	.03142	-.0182	.00002	-.00160
#2	z 613.0	.03062	-.0216	-.00206	-.00062
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.40306**	**.00705**	**.02403**	**.2315**	**.11318**
Stddev	.00195	.00054	.00007	.0017	.00029
%RSD	.48291	7.6555	.27179	.7247	.25459
#1	.40444	.00667	.02407	.2327	.11338
#2	.40169	.00743	.02398	.2303	.11298
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187894-B-15-A@5 Acquired: 8/10/2021 18:19:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00326**	**.04331**	**.09388**	**.0253**
Stddev	.00066	.00007	.00035	.0012
%RSD	20.294	.15292	.36832	4.835
#1	-.00372	.04336	.09412	.0262
#2	-.00279	.04326	.09363	.0245
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3415.5**	**3251.0**	**67473.**	**3614.0**
Stddev	1.4	.2	74.	13.7
%RSD	.04037	.00635	.10922	.37999
#1	3416.5	3250.9	67525.	3604.2
#2	3414.6	3251.2	67421.	3623.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.424%	113.91%	111.82%	115.85%
Range				

Sample Name: 480-187894-D-17-A@5 Acquired: 8/10/2021 18:23:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**54.297**	**.06200**	**.00200**	**.21056**
Stddev	.00006	.013	.00129	.00021	.00003
%RSD	9.1535	.02408	2.0874	10.475	.01310
#1	.00060	54.288	.06292	.00185	.21054
#2	.00068	54.307	.06109	.00215	.21058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00214**	**6.0103**	**.00070**	**.1805**	**.03135**
Stddev	.00003	.0040	.00012	.0161	.00008
%RSD	1.6065	.06613	16.840	8.939	.25964
#1	.00216	6.0075	.00062	.1919	.03130
#2	.00211	6.0131	.00078	.1691	.03141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07271**	**.03059**	**159.35**	**3.3603**	**.06804**
Stddev	.00019	.00066	.13	.0155	.00057
%RSD	.26351	2.1474	.08316	.46023	.84503
#1	.07258	.03105	159.44	3.3713	.06763
#2	.07285	.03013	159.25	3.3494	.06845
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187894-D-17-A@5 Acquired: 8/10/2021 18:23:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.375**	**.77190**	**-.00345**	**.16266**	**.06639**
Stddev	.006	.00027	.00003	.00302	.00020
%RSD	.03933	.03495	.91237	1.8556	.30231
#1	14.371	.77171	-.00343	.16052	.06653
#2	14.379	.77209	-.00347	.16479	.06625
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.03812**	**.0112**	**-.00266**	**.00122**
Stddev	-----	.00058	.0057	.00060	.00004
%RSD	-----	1.5320	51.12	22.689	3.4743
#1	z 544.3	.03854	.0071	-.00223	.00119
#2	z 541.9	.03771	.0152	-.00309	.00125
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.29495**	**.00795**	**.03092**	**.1765**	**.25790**
Stddev	.00653	.00090	.00004	.0002	.00073
%RSD	2.2130	11.336	.11418	.0981	.28396
#1	.29957	.00859	.03094	.1767	.25841
#2	.29034	.00731	.03089	.1764	.25738
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187894-D-17-A@5 Acquired: 8/10/2021 18:23:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00195**	**.09010**	**.11717**	**.0272**
Stddev	.00001	.00002	.00125	.0015
%RSD	.64478	.02284	1.0647	5.435
#1	-.00194	.09009	.11805	.0261
#2	-.00196	.09012	.11629	.0282
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3418.5**	**3279.8**	**68247.**	**3676.4**
Stddev	5.6	6.2	97.	14.5
%RSD	.16475	.19043	.14246	.39347
#1	3422.5	3284.3	68315.	3666.2
#2	3414.5	3275.4	68178.	3686.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.503%	114.92%	113.10%	117.85%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 18:27:02 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94775**	**48.425**	**.96939**	**.98091**	**.98826**	**.98483**	**48.985**	**.96638**
Stddev	.00025	.096	.00380	.00139	.00262	.00305	.190	.00026
%RSD	.02678	.19778	.39218	.14202	.26506	.30973	.38723	.02715
#1	.94757	48.492	.97207	.97993	.99011	.98699	49.119	.96620
#2	.94793	48.357	.96670	.98190	.98640	.98268	48.851	.96657
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9899**	**.98756**	**.97475**	**.97724**	**48.379**	**49.231**	**.94267**	**47.566**
Stddev	.0101	.00177	.00108	.00005	.436	.243	.00559	.051
%RSD	1.023	.17973	.11108	.00524	.90217	.49392	.59248	.10799
#1	.9827	.98630	.97552	.97728	48.688	49.403	.94662	47.603
#2	.9971	.98881	.97399	.97721	48.071	49.059	.93872	47.530
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97319**	**1.0022**	**48.997**	**.98259**	z *****	**.98674**	**24.75**	**.97029**
Stddev	.00041	.0054	.193	.00031	-----	.00113	.00	.00376
%RSD	.04190	.54305	.39352	.03122	-----	.11501	.0026	.38770
#1	.97348	.99834	49.133	.98237	z 9057.	.98754	24.75	.97295
#2	.97290	1.0060	48.861	.98281	z 9074.	.98594	24.75	.96763
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 18:27:02 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97199	9.4934	.99451	.96929	.9608	.98434	.98982	.98642
Stddev	.00253	.0111	.00407	.00282	.0053	.00160	.00337	.00245
%RSD	.25997	.11698	.40906	.29043	.5499	.16262	.34029	.24873
#1	.97020	9.5013	.99739	.97128	.9645	.98547	.98744	.98816
#2	.97377	9.4856	.99164	.96730	.9570	.98320	.99220	.98469
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0069	.9562
Stddev	.0039	.0015
%RSD	.38961	.1607
#1	1.0097	.9573
#2	1.0041	.9551
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3248.2	2782.5	56757.	3099.1
Stddev	3.3	1.8	80.	11.5
%RSD	.10094	.06468	.14117	.37112
#1	3245.9	2781.3	56700.	3090.9
#2	3250.6	2783.8	56814.	3107.2

Sample Name: CCB-6597963 Acquired: 8/10/2021 18:30:39 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00044**	**.01756**	**-.00028**	**-.00299**	**.00007**	**-.00003**	**-.00128**	**-.00012**
Stddev	.00006	.00159	.00093	.00028	.00001	.00002	.00262	.00002
%RSD	14.634	9.0745	328.46	9.2092	9.6406	57.205	205.24	17.446
#1	.00048	.01868	.00037	-.00280	.00006	-.00004	.00058	-.00013
#2	.00039	.01643	-.00094	-.00319	.00007	-.00002	-.00313	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0110**	**.00020**	**-.00010**	**.00017**	**.00504**	**-.13583**	**-.00194**	**.00084**
Stddev	.0028	.00005	.00015	.00055	.00039	.02707	.00042	.00153
%RSD	25.85	22.448	153.23	322.98	7.6493	19.927	21.377	182.74
#1	.0090	.00023	-.00020	.00056	.00531	-.11669	-.00224	-.00025
#2	.0130	.00017	.00001	-.00022	.00476	-.15497	-.00165	.00193
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00003**	**.00065**	**-.00151**	**-.00015**	z *****	**-.00019**	**-.0017**	**.00015**
Stddev	.00002	.00122	.00257	.00026	-----	.00003	.0020	.00004
%RSD	73.827	186.72	170.45	173.15	-----	13.536	117.1	23.814
#1	-.00004	.00152	-.00333	-.00033	z 139.3	-.00017	-.0003	.00018
#2	-.00001	-.00021	.00031	.00003	z 139.3	-.00021	-.0031	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 18:30:39 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00341**	**-.00146**	**.00006**	**-.00002**	**.0164**	**.00048**	**-.00102**	**-.00008**
Stddev	.00061	.01173	.00015	.00005	.0173	.00021	.00187	.00008
%RSD	17.865	805.56	238.37	263.02	105.7	43.857	184.58	99.632
#1	.00384	.00684	.00017	.00001	.0287	.00033	-.00234	-.00002
#2	.00298	-.00975	-.00004	-.00005	.0041	.00062	.00031	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00035**	**.0001**
Stddev	.00028	.0001
%RSD	80.805	50.08
#1	.00015	.0001
#2	.00054	.0001
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3783.5**	**2895.7**	**60999.**	**3156.3**
Stddev	.1	2.1	9.	21.0
%RSD	.00395	.07339	.01419	.66487
#1	3783.6	2897.2	60993.	3141.4
#2	3783.3	2894.2	61005.	3171.1

Sample Name: CCVL-6603764 Acquired: 8/10/2021 18:34:30 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00572**	**.17610**	**.01515**	**.01545**	**.00215**	**.00196**	**.48452**
Stddev	.00050	.00336	.00135	.00013	.00000	.00001	.00077
%RSD	8.7077	1.9068	8.8960	.83154	.11761	.31619	.15869
#1	.00536	.17848	.01419	.01555	.00215	.00195	.48506
#2	.00607	.17373	.01610	.01536	.00215	.00196	.48398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.0157**	**.00398**	**.00419**	**.00919**	**.04919**	W **.34197**
Stddev	.00011	.0119	.00007	.00004	.00018	.00373	.00490
%RSD	5.6107	75.63	1.7567	.84357	1.9602	7.5760	1.4321
#1	.00195	.0241	.00393	.00422	.00906	.05182	.33851
#2	.00180	.0073	.00403	.00417	.00932	.04655	.34544
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02775**	**.19124**	**.00316**	F **.00466**	**.99780**	**.00956**	z *****
Stddev	.00031	.00138	.00004	.00010	.00957	.00017	-----
%RSD	1.1230	.71986	1.1252	2.1050	.95865	1.8195	-----
#1	.02797	.19222	.00314	.00459	1.0046	.00968	z 138.4
#2	.02753	.19027	.00319	.00473	.99103	.00944	z 138.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 18:34:30 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00986**	**.1906**	**.01851**	**.02505**	**.44632**	**.00894**	**.00482**
Stddev	.00004	.0034	.00236	.00604	.00750	.00031	.00008
%RSD	.38513	1.799	12.729	24.108	1.6807	3.4880	1.7120
#1	.00983	.1882	.01684	.02932	.45162	.00871	.00476
#2	.00988	.1930	.02018	.02078	.44101	.00916	.00488
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0117**	**.00459**	**.01881**	**.00488**	**.01035**	**.0005**
Stddev	.0017	.00008	.00071	.00007	.00039	.0026
%RSD	14.11	1.7317	3.7611	1.4326	3.7206	478.0
#1	.0129	.00453	.01831	.00493	.01062	-.0013
#2	.0106	.00464	.01931	.00483	.01008	.0024
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3776.6**	**2904.6**	**60853.**	**3182.8**
Stddev	6.8	1.7	279.	8.6
%RSD	.17879	.05828	.45805	.26907
#1	3771.8	2905.8	60656.	3176.8
#2	3781.4	2903.4	61050.	3188.9

Sample Name: 480-188023-B-2-A@2 Acquired: 8/10/2021 18:38:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**41.319**	**.02184**	**.12984**	**.11600**
Stddev	.00034	.166	.00048	.00047	.00017
%RSD	66.006	.40180	2.1795	.36558	.15082
#1	.00076	41.202	.02150	.13018	.11612
#2	.00028	41.436	.02218	.12951	.11588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	**627.44**	**.00038**	**.1694**	**.02028**
Stddev	.00001	1.29	.00002	.0155	.00017
%RSD	.49771	.20637	6.3956	9.178	.84096
#1	.00218	626.53	.00039	.1804	.02040
#2	.00220	628.36	.00036	.1584	.02016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04329**	**.03514**	**49.465**	**17.003**	**.06261**
Stddev	.00052	.00051	.461	.055	.00084
%RSD	1.1915	1.4377	.93282	.32055	1.3407
#1	.04293	.03550	49.139	16.965	.06201
#2	.04366	.03479	49.792	17.042	.06320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188023-B-2-A@2 Acquired: 8/10/2021 18:38:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**111.27**	**1.2872**	**-.00659**	**.69736**	**.04935**
Stddev	.27	.0040	.00032	.00145	.00014
%RSD	.23888	.31400	4.8194	.20771	.28090
#1	111.45	1.2900	-.00681	.69633	.04925
#2	111.08	1.2843	-.00637	.69838	.04945
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.06162**	**1.270**	**-.00431**	**-.00319**
Stddev	-----	.00047	.011	.00155	.00070
%RSD	-----	.75861	.8550	36.003	21.896
#1	z 583.5	.06129	1.263	-.00321	-.00269
#2	z 582.0	.06195	1.278	-.00541	-.00368
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.57108**	**.01505**	**.53104**	**.0663**	**.04240**
Stddev	.02309	.00027	.00203	.0035	.00039
%RSD	4.0425	1.7853	.38179	5.299	.92678
#1	.58741	.01524	.52961	.0687	.04268
#2	.55476	.01486	.53247	.0638	.04212
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188023-B-2-A@2 Acquired: 8/10/2021 18:38:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00069**	**.05297**	**.09327**	**.0245**
Stddev	.00314	.00031	.00104	.0003
%RSD	457.41	.58608	1.1144	1.373
#1	.00291	.05319	.09253	.0242
#2	-.00153	.05275	.09400	.0247
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2927.4**	**2753.3**	**56858.**	**3283.1**
Stddev	5.8	7.6	58.	1.2
%RSD	.19736	.27630	.10145	.03740
#1	2931.5	2758.6	56817.	3282.2
#2	2923.3	2747.9	56899.	3284.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.502%	96.470%	94.228%	105.24%
Range				

Sample Name: 480-188023-C-4-A@2 Acquired: 8/10/2021 18:42:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**36.213**	**.01715**	**.13443**	**.13806**
Stddev	.00023	.026	.00158	.00038	.00008
%RSD	78.263	.07168	9.2206	.28035	.05698
#1	.00013	36.194	.01827	.13417	.13800
#2	.00045	36.231	.01603	.13470	.13811
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**635.11**	**.00029**	**.1607**	**.01997**
Stddev	.00000	3.68	.00022	.0005	.00009
%RSD	.18316	.57912	75.541	.3398	.47195
#1	.00190	637.71	.00014	.1603	.01990
#2	.00190	632.51	.00045	.1611	.02004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04001**	**.03139**	**50.858**	**17.388**	**.06139**
Stddev	.00070	.00021	.038	.022	.00213
%RSD	1.7572	.67742	.07463	.12692	3.4659
#1	.04051	.03124	50.885	17.372	.06290
#2	.03952	.03154	50.831	17.403	.05989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188023-C-4-A@2 Acquired: 8/10/2021 18:42:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**107.73**	**1.1471**	**-.00693**	**.79167**	**.05122**
Stddev	.49	.0042	.00035	.01204	.00027
%RSD	.45713	.36581	5.0602	1.5210	.52525
#1	108.08	1.1500	-.00668	.78315	.05103
#2	107.38	1.1441	-.00717	.80018	.05141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.06785**	**1.401**	**-.00784**	**-.00643**
Stddev	-----	.00250	.003	.00172	.00079
%RSD	-----	3.6880	.2169	21.958	12.221
#1	z 526.6	.06608	1.403	-.00662	-.00588
#2	z 527.9	.06962	1.399	-.00905	-.00699
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.63337**	**.01428**	**.46679**	**.0590**	**.04631**
Stddev	.00539	.00000	.00148	.0029	.00111
%RSD	.85055	.02132	.31782	4.879	2.4049
#1	.63718	.01429	.46574	.0570	.04553
#2	.62956	.01428	.46784	.0611	.04710
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188023-C-4-A@2 Acquired: 8/10/2021 18:42:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00128**	**.04804**	**.04604**	**.0222**
Stddev	.00111	.00045	.00014	.0021
%RSD	86.884	.93119	.30315	9.311
#1	-.00207	.04836	.04613	.0207
#2	-.00049	.04773	.04594	.0236
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2924.5**	**2743.6**	**56411.**	**3240.7**
Stddev	3.6	3.4	31.	17.2
%RSD	.12219	.12346	.05441	.53178
#1	2927.0	2746.0	56389.	3228.5
#2	2921.9	2741.2	56433.	3252.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.423%	96.133%	93.487%	103.88%
Range				

Sample Name: 188023-C-4-ASD@10 Acquired: 8/10/2021 18:45:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**7.9384**	**.00324**	**.02702**	**.03110**
Stddev	.00002	.0265	.00067	.00016	.00011
%RSD	23.643	.33382	20.601	.59931	.36293
#1	-.00008	7.9197	.00277	.02691	.03118
#2	-.00006	7.9572	.00371	.02714	.03102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**148.60**	**.00016**	**.0575**	**.00407**
Stddev	.00005	.04	.00001	.0023	.00013
%RSD	11.234	.02413	3.6961	4.007	3.0753
#1	.00043	148.57	.00015	.0559	.00398
#2	.00037	148.62	.00016	.0592	.00416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00919**	**.00676**	**11.632**	**3.5932**	**.01283**
Stddev	.00028	.00008	.004	.0169	.00139
%RSD	3.0300	1.1745	.03424	.46885	10.799
#1	.00938	.00670	11.629	3.5813	.01381
#2	.00899	.00682	11.635	3.6052	.01185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 188023-C-4-ASD@10 Acquired: 8/10/2021 18:45:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.346**	**.25742**	**-.00755**	**.17116**	**.01017**
Stddev	.034	.00048	.00011	.00383	.00004
%RSD	.14356	.18799	1.4652	2.2373	.43872
#1	23.369	.25776	-.00763	.17386	.01014
#2	23.322	.25708	-.00747	.16845	.01020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.01465**	**.2636**	**-.00263**	**-.00252**
Stddev	-----	.00027	.0010	.00115	.00035
%RSD	-----	1.8334	.3664	43.910	13.919
#1	z 239.1	.01446	.2643	-.00344	-.00227
#2	z 238.5	.01484	.2629	-.00181	-.00276
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.14634**	**.00246**	**.10401**	**-.0039**	**.00981**
Stddev	.00317	.00042	.00003	.0056	.00003
%RSD	2.1667	17.028	.02441	142.3	.34865
#1	.14858	.00275	.10403	.0000	.00983
#2	.14409	.00216	.10400	-.0078	.00978
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 188023-C-4-ASD@10 Acquired: 8/10/2021 18:45:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**.01036**	**.01013**	**.0049**
Stddev	.00071	.00002	.00003	.0010
%RSD	575.65	.17996	.24898	20.30
#1	-.00038	.01035	.01011	.0042
#2	.00062	.01037	.01014	.0057
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3353.0**	**2790.9**	**58136.**	**3172.2**
Stddev	.2	4.2	195.	10.0
%RSD	.00480	.15081	.33533	.31646
#1	3353.1	2793.9	57999.	3179.3
#2	3352.9	2787.9	58274.	3165.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.769%	97.788%	96.346%	101.69%
Range				

Sample Name: 188023-C-4-APDS@2 Acquired: 8/10/2021 18:49:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09042**	**54.176**	**.40407**	**.49595**	**.51272**
Stddev	.00009	.016	.00463	.00035	.00121
%RSD	.10407	.02932	1.1446	.07055	.23666
#1	.09035	54.165	.40734	.49620	.51186
#2	.09049	54.187	.40080	.49570	.51358
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36955**	**642.79**	**.37196**	**.1725**	**.40716**
Stddev	.00030	.62	.00044	.0135	.00073
%RSD	.08013	.09685	.11899	7.802	.17833
#1	.36934	642.35	.37228	.1630	.40767
#2	.36975	643.23	.37165	.1820	.40665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38427**	**.39864**	**66.568**	**36.152**	**.41516**
Stddev	.00135	.00039	.187	.016	.00088
%RSD	.35166	.09658	.28134	.04522	.21210
#1	.38332	.39837	66.701	36.164	.41578
#2	.38523	.39892	66.436	36.140	.41454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 188023-C-4-APDS@2 Acquired: 8/10/2021 18:49:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**123.19**	**1.4705**	**.36826**	**19.440**	**.43501**
Stddev	.03	.0000	.00117	.011	.00047
%RSD	.02708	.00173	.31642	.05897	.10807
#1	123.17	1.4705	.36744	19.432	.43468
#2	123.22	1.4705	.36909	19.448	.43534
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.46029**	**20.40**	**.39451**	**.35539**
Stddev	-----	.00077	.00	.00145	.00093
%RSD	-----	.16833	.0171	.36847	.26163
#1	z 540.5	.45975	20.41	.39553	.35604
#2	z 541.0	.46084	20.40	.39348	.35473
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.725**	**.40492**	**.81365**	**.0716**	**.45390**
Stddev	.003	.00124	.00136	.0109	.00040
%RSD	.01621	.30595	.16737	15.17	.08904
#1	19.727	.40405	.81268	.0793	.45361
#2	19.723	.40580	.81461	.0639	.45419
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 188023-C-4-APDS@2 Acquired: 8/10/2021 18:49:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.38271**	**.40864**	**.38646**	**.0906**
Stddev	.00141	.00083	.00041	.0069
%RSD	.36729	.20262	.10509	7.612
#1	.38370	.40806	.38675	.0954
#2	.38172	.40923	.38618	.0857
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2877.8**	**2723.3**	**56207.**	**3214.1**
Stddev	2.6	3.6	15.	11.5
%RSD	.08880	.13322	.02692	.35926
#1	2875.9	2720.8	56218.	3222.2
#2	2879.6	2725.9	56197.	3205.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.187%	95.422%	93.149%	103.03%
Range				

Sample Name: 188023-C-4-B MS@2 Acquired: 8/10/2021 18:53:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04724**	**103.30**	**.22472**	**.62769**	**.45263**
Stddev	.00006	.40	.00081	.00074	.00183
%RSD	.13250	.38705	.36093	.11810	.40417
#1	.04729	103.58	.22529	.62717	.45393
#2	.04720	103.02	.22415	.62821	.45134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19136**	**675.98**	**.19224**	**.2034**	**.23014**
Stddev	.00095	4.49	.00044	.0092	.00025
%RSD	.49447	.66374	.22656	4.514	.10737
#1	.19203	679.16	.19193	.1969	.22996
#2	.19069	672.81	.19255	.2099	.23031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25980**	**.22383**	**76.286**	**53.397**	**.27844**
Stddev	.00014	.00112	.585	.215	.00020
%RSD	.05567	.50177	.76703	.40201	.07120
#1	.25990	.22304	76.700	53.549	.27830
#2	.25970	.22463	75.872	53.245	.27858
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 188023-C-4-B MS@2 Acquired: 8/10/2021 18:53:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**135.08**	**1.4057**	**.18450**	**10.803**	**.26045**
Stddev	1.34	.0014	.00050	.018	.00032
%RSD	.99424	.09680	.26866	.16286	.12163
#1	136.03	1.4066	.18415	10.815	.26067
#2	134.13	1.4047	.18485	10.791	.26023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.28902**	**11.59**	**.12035**	**.17975**
Stddev	-----	.00073	.02	.00149	.00361
%RSD	-----	.25316	.1925	1.2390	2.0081
#1	z 546.5	.28850	11.61	.11930	.18230
#2	z 548.0	.28954	11.58	.12141	.17720
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0796**	**.19603**	**.69878**	**.0774**	**.37358**
Stddev	.0199	.00091	.00196	.0089	.00007
%RSD	.95784	.46459	.27992	11.49	.01787
#1	2.0655	.19667	.70016	.0711	.37353
#2	2.0937	.19539	.69739	.0837	.37362
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 188023-C-4-B MS@2 Acquired: 8/10/2021 18:53:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19870**	**.29639**	**.22435**	**.0636**
Stddev	.00183	.00100	.00048	.0012
%RSD	.92079	.33768	.21381	1.959
#1	.19999	.29569	.22401	.0627
#2	.19740	.29710	.22469	.0645
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2847.1**	**2728.2**	**55905.**	**3253.5**
Stddev	1.0	2.5	49.	16.5
%RSD	.03420	.09342	.08761	.50809
#1	2846.4	2730.0	55870.	3241.8
#2	2847.8	2726.4	55940.	3265.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.375%	95.593%	92.648%	104.29%
Range				

Sample Name: 188023-C-4-C MSD@2 Acquired: 8/10/2021 18:57:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04754**	**100.67**	**.21257**	**.61549**	**.44135**
Stddev	.00055	.15	.00067	.00046	.00265
%RSD	1.1492	.15377	.31288	.07526	.60076
#1	.04792	100.78	.21304	.61516	.43948
#2	.04715	100.56	.21210	.61582	.44323
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19304**	**647.35**	**.19113**	**.1990**	**.22145**
Stddev	.00000	3.28	.00031	.0461	.00061
%RSD	.00085	.50718	.16299	23.14	.27450
#1	.19304	649.67	.19135	.2316	.22188
#2	.19304	645.03	.19091	.1665	.22102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.25712**	**.22002**	**62.538**	**51.964**	**.27948**
Stddev	.00038	.00006	.370	.057	.00049
%RSD	.14741	.02771	.59125	.10955	.17642
#1	.25685	.21997	62.277	52.005	.27983
#2	.25739	.22006	62.800	51.924	.27913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 188023-C-4-C MSD@2 Acquired: 8/10/2021 18:57:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**127.94**	**1.3159**	**.18382**	**10.779**	**.24754**
Stddev	.18	.0019	.00033	.007	.00053
%RSD	.13766	.14547	.17810	.06765	.21266
#1	127.82	1.3145	.18405	10.784	.24792
#2	128.07	1.3172	.18359	10.774	.24717
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.27081**	**11.06**	**.11884**	**.18143**
Stddev	-----	.00113	.02	.00451	.00404
%RSD	-----	.41831	.1543	3.7983	2.2241
#1	z 547.3	.27161	11.08	.12204	.18428
#2	z 546.3	.27000	11.05	.11565	.17858
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.9482**	**.19813**	**.67992**	**.0667**	**.36650**
Stddev	.0081	.00115	.00059	.0169	.00050
%RSD	.20531	.58052	.08733	25.35	.13652
#1	3.9425	.19894	.68034	.0787	.36615
#2	3.9540	.19732	.67950	.0548	.36686
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 188023-C-4-C MSD@2 Acquired: 8/10/2021 18:57:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19774**	**.29111**	**.22445**	**.0632**
Stddev	.00047	.00089	.00209	.0005
%RSD	.23936	.30678	.93237	.8564
#1	.19741	.29048	.22297	.0628
#2	.19808	.29174	.22593	.0636
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2867.9**	**2740.5**	**55930.**	**3240.8**
Stddev	2.6	.0	216.	9.5
%RSD	.08970	.00117	.38660	.29236
#1	2869.7	2740.5	56083.	3247.5
#2	2866.1	2740.5	55777.	3234.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.926%	96.024%	92.690%	103.88%
Range				

Sample Name: 480-188023-C-7-A@2 Acquired: 8/10/2021 19:01:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**37.940**	**.01721**	**.12079**	**.11211**
Stddev	.00019	.072	.00321	.00012	.00018
%RSD	15.098	.19055	18.679	.09710	.15678
#1	.00140	37.991	.01948	.12070	.11223
#2	.00113	37.889	.01493	.12087	.11198
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**493.27**	**.00056**	**.1731**	**.02019**
Stddev	.00004	3.49	.00012	.0192	.00011
%RSD	1.8693	.70744	20.714	11.11	.54882
#1	.00212	495.74	.00064	.1595	.02027
#2	.00218	490.80	.00048	.1867	.02011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04335**	**.07707**	**49.899**	**15.931**	**.07188**
Stddev	.00051	.00026	.179	.006	.00048
%RSD	1.1764	.34166	.35891	.03927	.66455
#1	.04299	.07688	50.025	15.926	.07154
#2	.04371	.07726	49.772	15.935	.07222
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188023-C-7-A@2 Acquired: 8/10/2021 19:01:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**150.96**	**1.2484**	**-.00490**	**.67055**	**.04768**
Stddev	.46	.0019	.00032	.00266	.00035
%RSD	.30267	.15354	6.6282	.39603	.72786
#1	150.63	1.2497	-.00467	.66867	.04792
#2	151.28	1.2470	-.00513	.67243	.04743
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.06232**	**3.792**	**-.00599**	**-.00403**
Stddev	-----	.00022	.003	.00121	.00259
%RSD	-----	.34960	.0786	20.279	64.337
#1	z 578.8	.06247	3.794	-.00685	-.00586
#2	z 576.2	.06216	3.789	-.00513	-.00220
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.70391**	**.01553**	**.35132**	**.0529**	**.07674**
Stddev	.00312	.00085	.00090	.0158	.00025
%RSD	.44281	5.5038	.25497	29.92	.31986
#1	.70611	.01493	.35196	.0640	.07657
#2	.70171	.01614	.35069	.0417	.07692
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188023-C-7-A@2 Acquired: 8/10/2021 19:01:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00180**	**.05601**	**.06685**	**.0261**
Stddev	.00167	.00012	.00060	.0003
%RSD	92.848	.21178	.89710	1.098
#1	-.00299	.05593	.06727	.0263
#2	-.00062	.05610	.06642	.0259
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2961.1**	**2761.1**	**56992.**	**3247.8**
Stddev	.8	.5	63.	14.6
%RSD	.02591	.01911	.11085	.44875
#1	2960.5	2761.5	57036.	3237.5
#2	2961.6	2760.7	56947.	3258.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.392%	96.745%	94.449%	104.11%
Range				

Sample Name: 480-188042-A-14-A@2 Acquired: 8/10/2021 19:05:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00089**	**.16828**	**.02859**	**.00146**	**.03872**
Stddev	.00009	.01052	.00216	.00010	.00007
%RSD	10.363	6.2536	7.5651	6.7517	.17011
#1	-.00095	.16084	.03012	.00153	.03867
#2	-.00082	.17572	.02706	.00139	.03876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**2.8618**	**.00216**	**.0337**	**.03903**
Stddev	.00005	.0094	.00001	.0099	.00023
%RSD	60.575	.32869	.55240	29.26	.59658
#1	-.00012	2.8552	.00215	.0407	.03920
#2	-.00005	2.8685	.00216	.0268	.03887
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07551**	**1.9383**	**340.25**	**3.8150**	**-.00009**
Stddev	.00048	.0003	.88	.0138	.00247
%RSD	.63619	.01754	.25825	.36152	2613.2
#1	.07517	1.9381	339.63	3.8248	.00165
#2	.07585	1.9386	340.87	3.8053	-.00184
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188042-A-14-A@2 Acquired: 8/10/2021 19:05:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30170**	**1.0677**	**.04537**	**4.6998**	**6.4066**
Stddev	.00079	.0022	.00052	.0121	.0016
%RSD	.26239	.20155	1.1500	.25699	.02529
#1	.30114	1.0662	.04500	4.6912	6.4077
#2	.30226	1.0693	.04573	4.7083	6.4054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**.46384**	F **202.0**	**.00445**	**.00150**
Stddev	-----	.00034	.1	.00042	.00042
%RSD	-----	.07428	.0632	9.3292	28.200
#1	^ -----	.46359	201.9	.00475	.00180
#2	^ -----	.46408	202.1	.00416	.00120
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.73028**	**.04252**	**.00614**	**.2890**	**.10028**
Stddev	.00882	.00078	.00000	.0156	.00075
%RSD	1.2074	1.8294	.03613	5.403	.75159
#1	.72404	.04307	.00614	.3001	.10081
#2	.73651	.04197	.00614	.2780	.09975
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188042-A-14-A@2 Acquired: 8/10/2021 19:05:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00120**	**.03936**	**1.4375**	**.0116**
Stddev	.00011	.00041	.0067	.0005
%RSD	8.7926	1.0406	.46953	4.572
#1	-.00127	.03965	1.4327	.0119
#2	-.00112	.03907	1.4423	.0112
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3471.6**	**2825.4**	**58970.**	**3144.6**
Stddev	1.8	4.1	134.	4.3
%RSD	.05225	.14411	.22689	.13639
#1	3472.9	2828.2	59065.	3147.6
#2	3470.3	2822.5	58876.	3141.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.908%	98.996%	97.728%	100.80%
Range				

Sample Name: 480-187954-A-3-C MSD Acquired: 8/10/2021 19:08:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.08614	328.71	.37982	.28250	1.8351
Stddev	.00080	.09	.00053	.00077	.0016
%RSD	.93166	.02668	.14009	.27102	.08630
#1	.08671	328.64	.38020	.28196	1.8340
#2	.08558	328.77	.37945	.28304	1.8362
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.35056	80.123	.33258	.7019	.66554
Stddev	.00024	.184	.00029	.0176	.00044
%RSD	.06791	.22989	.08674	2.506	.06569
#1	.35040	79.993	.33238	.7144	.66523
#2	.35073	80.253	.33279	.6895	.66585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	.67575	.67909	347.29	40.224	.62452
Stddev	.00086	.00077	.03	.010	.00093
%RSD	.12752	.11322	.00846	.02536	.14842
#1	.67636	.67963	347.31	40.217	.62387
#2	.67514	.67855	347.27	40.231	.62518
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187954-A-3-C MSD Acquired: 8/10/2021 19:08:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**75.373**	**14.135**	**.32443**	**18.664**	**.78300**
Stddev	.253	.042	.00145	.004	.00223
%RSD	.33524	.29675	.44632	.01945	.28457
#1	75.552	14.164	.32341	18.661	.78143
#2	75.194	14.105	.32546	18.666	.78458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.70157**	**18.33**	**.17527**	**.29809**
Stddev	-----	.00196	.02	.00223	.00387
%RSD	-----	.28005	.0916	1.2707	1.2968
#1	z 3726.	.70296	18.34	.17685	.29536
#2	z 3715.	.70018	18.31	.17370	.30082
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3652**	**.42705**	**.49844**	**.4041**	**2.0402**
Stddev	.0226	.00105	.00053	.0189	.0020
%RSD	.67184	.24647	.10575	4.668	.09817
#1	3.3493	.42631	.49807	.3908	2.0417
#2	3.3812	.42780	.49881	.4175	2.0388
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187954-A-3-C MSD Acquired: 8/10/2021 19:08:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.39080**	**.81549**	**1.1620**	**.1540**
Stddev	.00008	.00122	.0041	.0009
%RSD	.02123	.14959	.35406	.6169
#1	.39074	.81635	1.1649	.1533
#2	.39086	.81463	1.1590	.1547
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2979.9**	**3236.7**	**65339.**	**3741.3**
Stddev	5.8	5.8	157.	2.9
%RSD	.19513	.17784	.24004	.07669
#1	2984.0	3240.7	65228.	3739.3
#2	2975.8	3232.6	65450.	3743.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.890%	113.41%	108.28%	119.93%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 19:12:27 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93846**	**48.132**	**.97046**	**.97630**	**.98968**	**.97888**	**48.594**	**.95964**
Stddev	.00233	.123	.00001	.00187	.00034	.00133	.117	.00014
%RSD	.24780	.25528	.00086	.19192	.03421	.13537	.24123	.01422
#1	.94011	48.045	.97045	.97763	.98944	.97795	48.511	.95974
#2	.93682	48.219	.97046	.97498	.98992	.97982	48.677	.95955
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9476**	**.98998**	**.96954**	**.97826**	**48.115**	**48.696**	**.93328**	**47.100**
Stddev	.0090	.00099	.00222	.00050	.241	.140	.00204	.238
%RSD	.9508	.10031	.22943	.05085	.50013	.28750	.21905	.50596
#1	.9412	.98927	.97111	.97861	47.945	48.597	.93472	47.269
#2	.9540	.99068	.96796	.97790	48.285	48.795	.93183	46.932
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.96769**	**1.0046**	**48.737**	**.98173**	z *****	**.99081**	**24.73**	**.96744**
Stddev	.00238	.0056	.029	.00152	-----	.00019	.01	.00435
%RSD	.24546	.55713	.05916	.15437	-----	.01941	.0263	.44947
#1	.96937	1.0007	48.716	.98065	z 9120.	.99067	24.72	.97052
#2	.96601	1.0086	48.757	.98280	z 9135.	.99094	24.73	.96437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 19:12:27 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96914	9.3908	.99471	.96712	.9659	.98344	.99084	.98523
Stddev	.00052	.0804	.00289	.00006	.0049	.00106	.00054	.00101
%RSD	.05378	.85665	.29044	.00626	.5024	.10800	.05468	.10222
#1	.96951	9.3339	.99266	.96708	.9694	.98419	.99122	.98594
#2	.96877	9.4476	.99675	.96717	.9625	.98269	.99046	.98452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0098	.9481
Stddev	.0044	.0016
%RSD	.43823	.1637
#1	1.0129	.9492
#2	1.0066	.9470
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3262.3	2804.2	57018.	3132.8
Stddev	1.1	4.2	117.	16.8
%RSD	.03275	.15084	.20523	.53771
#1	3261.5	2801.2	56935.	3144.7
#2	3263.0	2807.2	57101.	3120.8

Sample Name: CCB-6597963 Acquired: 8/10/2021 19:16:04 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.02115**	**.00184**	**-.00287**	**.00011**	**-.00007**	**.00103**	**-.00010**
Stddev	.00014	.01123	.00053	.00002	.00001	.00004	.00056	.00008
%RSD	100.21	53.074	28.809	.69625	9.0274	59.102	54.424	75.269
#1	-.00004	.01321	.00146	-.00288	.00010	-.00004	.00143	-.00015
#2	-.00023	.02909	.00221	-.00286	.00011	-.00010	.00063	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0084**	**.00014**	**-.00013**	**.00005**	**.00968**	**-.10070**	**.00037**	**.00119**
Stddev	.0048	.00008	.00006	.00030	.00009	.02694	.00167	.00027
%RSD	57.15	60.091	48.306	552.98	.96030	26.752	452.81	22.795
#1	-.0050	.00008	-.00018	-.00016	.00975	-.08165	-.00081	.00100
#2	-.0119	.00020	-.00009	.00027	.00961	-.11975	.00155	.00138
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00009**	**.00127**	**-.00665**	**-.00015**	z *****	**.00082**	**.0090**	**.00115**
Stddev	.00001	.00131	.00521	.00008	-----	.00046	.0096	.00032
%RSD	7.0667	102.58	78.438	50.208	-----	56.848	106.4	27.936
#1	.00010	.00220	-.00296	-.00021	z 138.5	.00115	.0158	.00092
#2	.00009	.00035	-.01034	-.00010	z 138.4	.00049	.0022	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 19:16:04 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00612	.01532	.00009	-.00003	.0039	.00036	-.00060	-.00002
Stddev	.00117	.02536	.00063	.00004	.0157	.00002	.00046	.00003
%RSD	19.071	165.48	687.60	132.73	405.7	6.8058	76.768	151.75
#1	.00695	-.00261	-.00035	-.00000	-.0072	.00034	-.00027	-.00004
#2	.00530	.03325	.00054	-.00005	.0149	.00038	-.00092	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00077	.0017
Stddev	.00003	.0002
%RSD	4.1430	13.89
#1	.00074	.0015
#2	.00079	.0019
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3805.5	2905.2	60910.	3170.5
Stddev	.9	2.0	44.	3.4
%RSD	.02441	.07056	.07149	.10781
#1	3806.1	2903.7	60879.	3168.1
#2	3804.8	2906.6	60941.	3172.9

Sample Name: CCVL-6603764 Acquired: 8/10/2021 19:19:54 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00590**	**.19929**	**.01387**	**.01531**	**.00217**	**.00195**	**.48552**
Stddev	.00003	.02159	.00062	.00000	.00003	.00005	.00128
%RSD	.44929	10.835	4.4953	.01253	1.1826	2.7076	.26365
#1	.00592	.21456	.01343	.01531	.00215	.00192	.48461
#2	.00588	.18403	.01431	.01531	.00219	.00199	.48642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00179**	**.0171**	**.00394**	**.00389**	**.00934**	**.05132**	W **.34472**
Stddev	.00008	.0176	.00001	.00028	.00033	.00542	.01958
%RSD	4.3182	103.1	.23675	7.2930	3.5100	10.568	5.6812
#1	.00185	.0296	.00393	.00369	.00957	.04749	.33088
#2	.00174	.0046	.00394	.00410	.00910	.05516	.35857
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02753**	**.19122**	**.00313**	F **.00487**	**.99058**	**.00930**	z *****
Stddev	.00001	.00145	.00004	.00025	.00628	.00012	-----
%RSD	.02113	.76033	1.3450	5.1521	.63402	1.3110	-----
#1	.02753	.19225	.00310	.00504	.99502	.00921	z 137.4
#2	.02752	.19020	.00316	.00469	.98614	.00938	z 138.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 19:19:54 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00941**	**.1976**	**.01943**	**.02439**	**.44679**	**.00926**	**.00481**
Stddev	.00042	.0010	.00019	.00102	.00705	.00012	.00007
%RSD	4.4382	.5105	.97502	4.1980	1.5785	1.3301	1.3792
#1	.00971	.1983	.01930	.02511	.45178	.00935	.00485
#2	.00911	.1969	.01957	.02366	.44180	.00917	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0011**	**.00460**	**.01849**	**.00468**	**.00997**	**.0007**
Stddev	.0040	.00008	.00097	.00020	.00004	.0005
%RSD	349.3	1.7316	5.2547	4.2138	.43104	68.48
#1	-.0040	.00454	.01780	.00482	.01000	.0010
#2	.0017	.00465	.01917	.00454	.00994	.0004
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3782.1**	**2905.3**	**61170.**	**3169.3**
Stddev	5.6	1.2	13.	22.8
%RSD	.14768	.04089	.02061	.71805
#1	3786.0	2904.5	61161.	3153.3
#2	3778.1	2906.2	61179.	3185.4

Sample Name: 480-187954-A-4-A@2 Acquired: 8/10/2021 19:23:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**67.315**	**.01086**	**.00909**	**.31679**
Stddev	.00001	.304	.00252	.00025	.00270
%RSD	1.3964	.45224	23.167	2.7750	.85382
#1	.00068	67.099	.00908	.00891	.31488
#2	.00069	67.530	.01264	.00927	.31871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**696.67**	**.00056**	**.2080**	**.03298**
Stddev	.00007	8.94	.00007	.0265	.00019
%RSD	3.5775	1.2830	12.247	12.72	.57303
#1	.00203	690.35	.00061	.2267	.03312
#2	.00193	702.99	.00051	.1893	.03285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08264**	**.04252**	**75.028**	**15.009**	**.18570**
Stddev	.00023	.00011	.295	.055	.00039
%RSD	.27872	.25965	.39281	.36895	.20859
#1	.08248	.04260	74.820	14.970	.18597
#2	.08280	.04244	75.237	15.049	.18542
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187954-A-4-A@2 Acquired: 8/10/2021 19:23:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**72.450**	**1.4868**	**-.00088**	**.13778**	**.07352**
Stddev	.421	.0078	.00001	.00313	.00027
%RSD	.58094	.52743	1.2036	2.2746	.36799
#1	72.153	1.4812	-.00089	.13999	.07333
#2	72.748	1.4923	-.00088	.13556	.07371
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.03854**	**.3463**	**-.00452**	**-.00613**
Stddev	-----	.00223	.0124	.00083	.00432
%RSD	-----	5.7812	3.595	18.454	70.503
#1	z 896.4	.03696	.3551	-.00393	-.00918
#2	z 897.7	.04012	.3375	-.00511	-.00307
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.62001**	**.01753**	**3.0688**	**.0869**	**.52247**
Stddev	.01034	.00041	.0126	.0033	.00098
%RSD	1.6685	2.3536	.41184	3.758	.18762
#1	.61269	.01782	3.0598	.0846	.52317
#2	.62732	.01723	3.0777	.0892	.52178
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187954-A-4-A@2 Acquired: 8/10/2021 19:23:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00046**	**.06842**	**.15364**	**.0414**
Stddev	.00162	.00019	.00158	.0002
%RSD	351.62	.27701	1.0256	.4836
#1	-.00068	.06856	.15253	.0412
#2	.00161	.06829	.15475	.0415
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2913.5**	**2791.1**	**57613.**	**3324.0**
Stddev	1.7	3.5	218.	26.3
%RSD	.05927	.12673	.37900	.79235
#1	2914.7	2793.6	57767.	3342.7
#2	2912.3	2788.6	57458.	3305.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.133%	97.796%	95.478%	106.55%
Range				

Sample Name: 480-187954-B-9-A@2 Acquired: 8/10/2021 19:27:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00094**	**77.018**	**.01546**	**.01213**	**.39235**
Stddev	.00045	.228	.00195	.00049	.00018
%RSD	47.344	.29603	12.643	4.0758	.04660
#1	.00126	77.180	.01684	.01248	.39222
#2	.00063	76.857	.01408	.01178	.39248
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00227**	**669.92**	**.00051**	**.2882**	**.03688**
Stddev	.00002	3.29	.00003	.0232	.00017
%RSD	.98972	.49145	5.8282	8.052	.46902
#1	.00225	672.25	.00049	.3046	.03676
#2	.00228	667.59	.00053	.2718	.03700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.08938**	**.04736**	**86.164**	**16.803**	**.20197**
Stddev	.00057	.00048	.015	.002	.00041
%RSD	.63392	1.0092	.01710	.01058	.20089
#1	.08898	.04702	86.154	16.804	.20169
#2	.08978	.04770	86.175	16.802	.20226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187954-B-9-A@2 Acquired: 8/10/2021 19:27:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**71.882**	**2.6396**	**-.00302**	**.18851**	**.08634**
Stddev	.164	.0040	.00021	.00613	.00003
%RSD	.22785	.15276	7.0394	3.2507	.03539
#1	71.766	2.6367	-.00287	.18417	.08632
#2	71.998	2.6424	-.00317	.19284	.08636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.04202**	**.0985**	**-.00554**	**-.00698**
Stddev	-----	.00001	.0027	.00110	.00168
%RSD	-----	.01977	2.712	19.774	24.051
#1	z 986.9	.04202	.1004	-.00631	-.00580
#2	z 985.8	.04201	.0966	-.00476	-.00817
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.1713**	**.01710**	**2.9453**	**.0934**	**.59766**
Stddev	.0468	.00005	.0041	.0004	.00178
%RSD	2.1548	.26817	.13841	.4180	.29860
#1	2.1382	.01707	2.9482	.0937	.59640
#2	2.2044	.01713	2.9425	.0931	.59892
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187954-B-9-A@2 Acquired: 8/10/2021 19:27:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00249**	**.07790**	**.15078**	**.0475**
Stddev	.00124	.00004	.00113	.0017
%RSD	49.798	.05562	.74878	3.660
#1	-.00337	.07793	.14999	.0487
#2	-.00161	.07787	.15158	.0462
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2907.9**	**2859.6**	**59228.**	**3415.4**
Stddev	2.1	1.0	132.	4.4
%RSD	.07090	.03469	.22227	.12857
#1	2906.4	2858.9	59321.	3412.3
#2	2909.4	2860.3	59135.	3418.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.984%	100.20%	98.155%	109.48%
Range				

Sample Name: 480-187922-B-2-D@2 Acquired: 8/10/2021 19:31:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00146**	**38.065**	**.02250**	**.14439**	**.06576**
Stddev	.00063	.107	.00060	.00052	.00012
%RSD	43.247	.28157	2.6769	.35959	.18433
#1	.00190	38.140	.02293	.14476	.06568
#2	.00101	37.989	.02207	.14403	.06585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**649.36**	**.00051**	**.2062**	**.02219**
Stddev	.00005	1.59	.00012	.0210	.00024
%RSD	2.0575	.24525	24.177	10.18	1.0601
#1	.00228	650.48	.00060	.2211	.02236
#2	.00235	648.23	.00043	.1914	.02203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04177**	**.03304**	**50.611**	**18.617**	**.06985**
Stddev	.00003	.00053	.029	.093	.00008
%RSD	.07571	1.5958	.05647	.49747	.11804
#1	.04179	.03267	50.632	18.683	.06991
#2	.04174	.03341	50.591	18.552	.06979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-2-D@2 Acquired: 8/10/2021 19:31:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**197.34**	**1.2400**	**-.00684**	**.80974**	**.05054**
Stddev	.59	.0026	.00004	.00224	.00008
%RSD	.30143	.21127	.63511	.27695	.15334
#1	197.76	1.2381	-.00681	.80816	.05049
#2	196.92	1.2418	-.00687	.81133	.05060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.07701**	**5.387**	**-.00470**	**-.00677**
Stddev	-----	.00051	.004	.00012	.00242
%RSD	-----	.66303	.0737	2.5480	35.800
#1	z 538.4	.07737	5.389	-.00462	-.00505
#2	z 536.9	.07665	5.384	-.00479	-.00848
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7868**	**.01570**	**.45841**	**.0426**	**.07592**
Stddev	.0338	.00142	.00079	.0029	.00395
%RSD	1.2143	9.0412	.17254	6.834	5.2007
#1	2.7629	.01469	.45897	.0405	.07313
#2	2.8107	.01670	.45785	.0447	.07871
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-2-D@2 Acquired: 8/10/2021 19:31:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00020**	**.04895**	**.04235**	**.0287**
Stddev	.00070	.00021	.00031	.0023
%RSD	347.11	.42620	.72509	8.052
#1	.00069	.04880	.04257	.0304
#2	-.00029	.04910	.04214	.0271
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2882.3**	**2713.9**	**56713.**	**3272.6**
Stddev	3.7	1.1	33.	15.0
%RSD	.12784	.04185	.05781	.45736
#1	2879.7	2714.7	56689.	3262.0
#2	2884.9	2713.1	56736.	3283.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.306%	95.092%	93.986%	104.90%
Range				

Sample Name: 480-187922-B-8-F@2 Acquired: 8/10/2021 19:35:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**37.472**	**.01817**	**.13135**	**.10566**
Stddev	.00023	.215	.00163	.00054	.00023
%RSD	58.473	.57466	8.9502	.41194	.21407
#1	.00023	37.319	.01702	.13173	.10550
#2	.00055	37.624	.01932	.13096	.10582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**609.09**	**.00042**	**.1830**	**.01965**
Stddev	.00001	3.02	.00010	.0106	.00022
%RSD	.28443	.49507	23.395	5.797	1.1237
#1	.00206	606.96	.00035	.1905	.01980
#2	.00206	611.22	.00049	.1755	.01949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04212**	**.03485**	**47.645**	**16.187**	**.05591**
Stddev	.00016	.00019	.364	.075	.00184
%RSD	.38770	.55693	.76370	.46458	3.2954
#1	.04200	.03471	47.388	16.133	.05461
#2	.04224	.03498	47.902	16.240	.05722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-8-F@2 Acquired: 8/10/2021 19:35:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**77.711**	**1.1783**	**-.00682**	**.66590**	**.04604**
Stddev	.406	.0050	.00016	.00819	.00005
%RSD	.52232	.42510	2.2978	1.2294	.11105
#1	77.423	1.1748	-.00693	.66011	.04601
#2	77.998	1.1819	-.00671	.67169	.04608
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05732**	**.9081**	**-.00600**	**-.00520**
Stddev	-----	.00040	.0002	.00287	.00013
%RSD	-----	.69066	.0185	47.767	2.4906
#1	z 594.3	.05760	.9080	-.00398	-.00511
#2	z 593.6	.05704	.9082	-.00803	-.00530
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.68448**	**.01616**	**.63374**	**.0561**	**.05564**
Stddev	.02623	.00011	.00428	.0139	.00060
%RSD	3.8314	.69823	.67476	24.77	1.0814
#1	.66594	.01624	.63072	.0463	.05607
#2	.70303	.01608	.63676	.0659	.05521
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-8-F@2 Acquired: 8/10/2021 19:35:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00147**	**.04989**	**.07022**	**.0236**
Stddev	.00290	.00034	.00107	.0012
%RSD	198.15	.67674	1.5192	5.115
#1	-.00352	.04965	.06946	.0227
#2	.00059	.05013	.07097	.0245
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2966.4**	**2744.5**	**56773.**	**3241.8**
Stddev	1.9	1.3	373.	22.3
%RSD	.06330	.04812	.65652	.68739
#1	2967.7	2743.6	57037.	3257.6
#2	2965.1	2745.4	56509.	3226.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.533%	96.164%	94.087%	103.92%
Range				

Sample Name: 480-187922-G-10-D@2 Acquired: 8/10/2021 19:39:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**33.525**	**.01621**	**.15806**	**.06608**
Stddev	.00008	.044	.00143	.00045	.00009
%RSD	41.651	.13043	8.7968	.28642	.14271
#1	.00026	33.555	.01722	.15838	.06601
#2	.00014	33.494	.01520	.15774	.06614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00192**	**519.47**	**.00026**	**.1638**	**.01914**
Stddev	.00005	.51	.00006	.0213	.00015
%RSD	2.3736	.09895	23.923	12.98	.77908
#1	.00188	519.83	.00030	.1788	.01925
#2	.00195	519.10	.00021	.1487	.01904
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03657**	**.02361**	**40.817**	**17.164**	**.05164**
Stddev	.00009	.00016	.080	.002	.00014
%RSD	.25719	.68800	.19481	.01106	.26652
#1	.03664	.02373	40.761	17.166	.05155
#2	.03651	.02350	40.873	17.163	.05174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-G-10-D@2 Acquired: 8/10/2021 19:39:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**82.651**	**.97268**	**-.00721**	**.62497**	**.04540**
Stddev	.366	.00281	.00012	.00175	.00001
%RSD	.44320	.28866	1.6712	.27922	.03155
#1	82.392	.97070	-.00729	.62374	.04541
#2	82.910	.97467	-.00712	.62620	.04539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.04320**	**.6784**	**-.00406**	**-.00558**
Stddev	-----	.00060	.0001	.00088	.00000
%RSD	-----	1.3998	.0185	21.761	.07664
#1	z 440.4	.04277	.6783	-.00468	-.00558
#2	z 440.7	.04362	.6785	-.00343	-.00557
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.212**	**.01467**	**.42704**	**.0404**	**.06268**
Stddev	.113	.00026	.00070	.0018	.00042
%RSD	1.1029	1.7836	.16449	4.452	.67688
#1	10.291	.01448	.42654	.0391	.06298
#2	10.132	.01485	.42753	.0417	.06238
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-G-10-D@2 Acquired: 8/10/2021 19:39:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.04325**	**.03813**	**.0138**
Stddev	.00055	.00050	.00035	.0003
%RSD	234.16	1.1666	.91102	2.118
#1	-.00062	.04290	.03789	.0141
#2	.00015	.04361	.03838	.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3002.2**	**2733.0**	**56473.**	**3215.3**
Stddev	2.5	3.2	141.	7.4
%RSD	.08206	.11832	.25010	.23085
#1	3000.5	2730.7	56573.	3210.0
#2	3004.0	2735.3	56373.	3220.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.482%	95.761%	93.590%	103.07%
Range				

Sample Name: 480-187922-B-11-F@2 Acquired: 8/10/2021 19:42:58 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00104**	**25.463**	**.02202**	**.11097**	**.05229**
Stddev	.00014	.053	.00066	.00017	.00004
%RSD	13.102	.20633	3.0005	.14945	.07154
#1	.00094	25.500	.02155	.11085	.05232
#2	.00114	25.426	.02248	.11109	.05226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00178**	**851.90**	**.00035**	**.2369**	**.02118**
Stddev	.00002	4.95	.00012	.0025	.00011
%RSD	1.1342	.58095	35.136	1.042	.52118
#1	.00177	855.40	.00026	.2387	.02126
#2	.00179	848.40	.00044	.2352	.02110
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02995**	**.03389**	**46.529**	**12.489**	**.04818**
Stddev	.00004	.00068	.075	.022	.00021
%RSD	.13728	2.0052	.16047	.17856	.42744
#1	.02998	.03341	46.582	12.505	.04833
#2	.02992	.03437	46.477	12.473	.04804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-11-F@2 Acquired: 8/10/2021 19:42:58 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**151.88**	**1.8097**	**-.00717**	**.75192**	**.04201**
Stddev	.07	.0043	.00010	.00699	.00019
%RSD	.04379	.23808	1.4585	.92913	.45385
#1	151.92	1.8128	-.00724	.75686	.04214
#2	151.83	1.8067	-.00709	.74698	.04188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.07689**	**1.648**	**-.00750**	**-.00698**
Stddev	-----	.00083	.000	.00315	.00157
%RSD	-----	1.0816	.0038	42.004	22.504
#1	z 571.6	.07748	1.648	-.00527	-.00809
#2	z 569.6	.07630	1.648	-.00973	-.00587
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.55108**	**.01649**	**.73875**	**.0406**	**.02979**
Stddev	.01279	.00031	.00318	.0160	.00101
%RSD	2.3210	1.9002	.43009	39.38	3.3860
#1	.54203	.01671	.74100	.0293	.02908
#2	.56012	.01627	.73650	.0520	.03051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-11-F@2 Acquired: 8/10/2021 19:42:58 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00106**	**.03661**	**.02678**	**.0193**
Stddev	.00120	.00020	.00046	.0005
%RSD	113.68	.55594	1.7292	2.617
#1	-.00021	.03647	.02646	.0190
#2	-.00191	.03676	.02711	.0197
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2830.2**	**2746.7**	**57088.**	**3307.4**
Stddev	3.9	1.4	91.	8.9
%RSD	.13904	.05038	.15946	.26895
#1	2833.0	2747.7	57024.	3301.1
#2	2827.4	2745.7	57153.	3313.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	74.928%	96.241%	94.609%	106.02%
Range				

Sample Name: 480-187922-B-18-F@2 Acquired: 8/10/2021 19:46:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00115**	**43.573**	**.01481**	**.14149**	**.11284**
Stddev	.00016	.051	.00056	.00001	.00010
%RSD	13.861	.11765	3.7551	.00651	.08716
#1	.00127	43.609	.01521	.14149	.11291
#2	.00104	43.537	.01442	.14148	.11277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00213**	**535.05**	**.00038**	**.1806**	**.01847**
Stddev	.00003	.70	.00003	.0310	.00010
%RSD	1.2440	.13045	7.7345	17.16	.55370
#1	.00215	535.55	.00036	.1587	.01840
#2	.00211	534.56	.00040	.2025	.01855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04547**	**.03417**	**46.971**	**17.474**	**.06666**
Stddev	.00044	.00024	.073	.032	.00062
%RSD	.96898	.70389	.15523	.18416	.92876
#1	.04579	.03400	46.919	17.497	.06709
#2	.04516	.03434	47.022	17.451	.06622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-18-F@2 Acquired: 8/10/2021 19:46:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**123.32**	**1.2718**	**-.00752**	**.73106**	**.04585**
Stddev	.12	.0011	.00014	.00148	.00027
%RSD	.09808	.08669	1.8702	.20184	.59406
#1	123.23	1.2710	-.00742	.73001	.04605
#2	123.40	1.2726	-.00762	.73210	.04566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.04947**	**.9197**	**-.00416**	**-.00613**
Stddev	-----	.00059	.0034	.00312	.00340
%RSD	-----	1.1960	.3743	75.147	55.424
#1	z 583.8	.04989	.9173	-.00195	-.00373
#2	z 583.2	.04905	.9221	-.00636	-.00853
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.81702**	**.01622**	**.48284**	**.0556**	**.05753**
Stddev	.00855	.00038	.00033	.0070	.00026
%RSD	1.0467	2.3180	.06881	12.56	.45393
#1	.81098	.01596	.48308	.0605	.05735
#2	.82307	.01649	.48261	.0506	.05772
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-18-F@2 Acquired: 8/10/2021 19:46:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00057**	**.05849**	**.06158**	**.0249**
Stddev	.00107	.00024	.00122	.0007
%RSD	189.13	.40457	1.9884	2.707
#1	.00019	.05866	.06245	.0254
#2	-.00132	.05832	.06072	.0244
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2971.1**	**2748.3**	**56815.**	**3234.4**
Stddev	1.1	1.6	85.	7.6
%RSD	.03548	.05647	.14898	.23554
#1	2971.9	2747.2	56875.	3229.0
#2	2970.4	2749.4	56755.	3239.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.658%	96.296%	94.156%	103.68%
Range				

Sample Name: 480-187922-B-22-A@2 Acquired: 8/10/2021 19:50:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**53.188**	**.01903**	**.17626**	**.10054**
Stddev	.00057	.124	.00110	.00056	.00009
%RSD	82.042	.23333	5.7725	.31734	.08691
#1	.00029	53.276	.01825	.17587	.10060
#2	.00111	53.100	.01980	.17666	.10048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00232**	**599.11**	**.00026**	**.1568**	**.01866**
Stddev	.00003	5.80	.00013	.0035	.00005
%RSD	1.4627	.96838	49.122	2.264	.24332
#1	.00230	603.21	.00035	.1543	.01863
#2	.00235	595.01	.00017	.1593	.01869
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05176**	**.02530**	**45.975**	**21.533**	**.07059**
Stddev	.00057	.00057	.124	.002	.00100
%RSD	1.0941	2.2605	.26937	.00771	1.4103
#1	.05216	.02570	46.062	21.534	.07130
#2	.05135	.02489	45.887	21.532	.06989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-22-A@2 Acquired: 8/10/2021 19:50:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**87.697**	**.95570**	**-.00735**	**.63550**	**.04651**
Stddev	.335	.00304	.00004	.01127	.00030
%RSD	.38166	.31853	.54599	1.7735	.63921
#1	87.934	.95785	-.00738	.64347	.04630
#2	87.461	.95354	-.00732	.62753	.04672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.04828**	**.7407**	**-.00598**	**-.00672**
Stddev	-----	.00152	.0018	.00142	.00310
%RSD	-----	3.1528	.2482	23.744	46.128
#1	z 422.0	.04721	.7420	-.00698	-.00891
#2	z 422.2	.04936	.7394	-.00497	-.00453
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.70611**	**.01572**	**.39627**	**.0507**	**.04419**
Stddev	.01157	.00054	.00030	.0078	.00052
%RSD	1.6388	3.4228	.07680	15.49	1.1791
#1	.71429	.01610	.39606	.0451	.04383
#2	.69793	.01534	.39649	.0562	.04456
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-22-A@2 Acquired: 8/10/2021 19:50:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00034**	**.06305**	**.03973**	**.0242**
Stddev	.00092	.00011	.00128	.0011
%RSD	273.77	.17070	3.2319	4.550
#1	.00099	.06313	.04064	.0234
#2	-.00032	.06297	.03883	.0250
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2961.8**	**2725.3**	**56295.**	**3235.3**
Stddev	4.1	3.3	80.	20.9
%RSD	.13830	.12155	.14271	.64694
#1	2964.6	2727.6	56238.	3220.5
#2	2958.9	2722.9	56352.	3250.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.410%	95.489%	93.295%	103.71%
Range				

Sample Name: 480-187922-B-23-D@2 Acquired: 8/10/2021 19:54:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**40.829**	**.01668**	**.13979**	**.10034**
Stddev	.00020	.066	.00035	.00032	.00044
%RSD	52.938	.16267	2.0771	.23046	.43972
#1	.00023	40.782	.01643	.13957	.10003
#2	.00051	40.876	.01692	.14002	.10066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**714.29**	**.00034**	**.1694**	**.01952**
Stddev	.00001	1.38	.00010	.0046	.00003
%RSD	.69965	.19272	29.313	2.695	.14153
#1	.00185	715.26	.00041	.1727	.01954
#2	.00187	713.31	.00027	.1662	.01950
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04341**	**.02778**	**42.857**	**16.184**	**.05983**
Stddev	.00014	.00004	.002	.023	.00024
%RSD	.32200	.13371	.00459	.14055	.40188
#1	.04331	.02776	42.858	16.168	.06000
#2	.04351	.02781	42.855	16.200	.05966
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-23-D@2 Acquired: 8/10/2021 19:54:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**115.76**	**1.1209**	**-.00689**	**.72195**	**.04137**
Stddev	.16	.0026	.00017	.00608	.00001
%RSD	.13857	.23046	2.5080	.84282	.02190
#1	115.65	1.1191	-.00676	.71765	.04138
#2	115.87	1.1227	-.00701	.72626	.04136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05766**	**1.340**	**-.00509**	**-.00589**
Stddev	-----	.00053	.014	.00048	.00022
%RSD	-----	.91789	1.038	9.5088	3.8132
#1	z 578.2	.05729	1.350	-.00475	-.00604
#2	z 579.5	.05803	1.330	-.00544	-.00573
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.90155**	**.01640**	**.51253**	**.0391**	**.04647**
Stddev	.01226	.00061	.00106	.0114	.00033
%RSD	1.3603	3.7305	.20657	29.12	.71007
#1	.89287	.01683	.51328	.0471	.04670
#2	.91022	.01597	.51179	.0310	.04623
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-23-D@2 Acquired: 8/10/2021 19:54:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00128**	**.05081**	**.03374**	**.0238**
Stddev	.00107	.00012	.00039	.0006
%RSD	83.550	.22670	1.1557	2.412
#1	-.00203	.05073	.03401	.0234
#2	-.00052	.05089	.03346	.0242
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2906.0**	**2711.8**	**56134.**	**3216.2**
Stddev	1.4	1.6	89.	8.5
%RSD	.04763	.05818	.15828	.26534
#1	2905.0	2710.7	56196.	3222.3
#2	2907.0	2712.9	56071.	3210.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.934%	95.016%	93.027%	103.10%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 19:58:16 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95593**	**48.790**	**.97606**	**.99005**	**.98372**	**.98241**	**49.111**	**.97676**
Stddev	.00067	.014	.00305	.00101	.00022	.00087	.129	.00174
%RSD	.06994	.02965	.31297	.10205	.02187	.08830	.26264	.17851
#1	.95546	48.780	.97390	.99077	.98357	.98180	49.019	.97799
#2	.95641	48.801	.97822	.98934	.98388	.98302	49.202	.97552
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9522**	**.98219**	**.97918**	**.98105**	**48.588**	**48.613**	**.94675**	**47.814**
Stddev	.0119	.00140	.00094	.00414	.134	.037	.00069	.020
%RSD	1.254	.14299	.09597	.42239	.27577	.07587	.07241	.04240
#1	.9607	.98120	.97852	.98398	48.493	48.639	.94626	47.828
#2	.9438	.98319	.97985	.97812	48.683	48.587	.94723	47.800
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97389**	**1.0050**	**48.804**	**.98153**	z *****	**.98461**	**24.79**	**.97617**
Stddev	.00074	.0031	.007	.00023	-----	.00157	.01	.00241
%RSD	.07561	.30723	.01433	.02379	-----	.15915	.0441	.24687
#1	.97441	1.0028	48.809	.98170	z 9020.	.98350	24.79	.97788
#2	.97337	1.0072	48.799	.98137	z 9019.	.98571	24.78	.97447
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 19:58:16 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97462	9.5798	.98692	.97330	.9719	.98316	.98810	.98833
Stddev	.00386	.1022	.00171	.00111	.0148	.00164	.00272	.00167
%RSD	.39557	1.0673	.17321	.11411	1.524	.16651	.27569	.16911
#1	.97735	9.5075	.98571	.97251	.9824	.98432	.98618	.98951
#2	.97190	9.6521	.98813	.97408	.9614	.98200	.99003	.98715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0012	.9942
Stddev	.0007	.0009
%RSD	.07380	.0954
#1	1.0006	.9935
#2	1.0017	.9949
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3253.3	2773.8	56975.	3118.3
Stddev	1.5	2.1	14.	8.3
%RSD	.04738	.07553	.02373	.26474
#1	3254.4	2772.3	56985.	3124.2
#2	3252.2	2775.3	56966.	3112.5

Sample Name: CCB-6597963 Acquired: 8/10/2021 20:01:53 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.02314**	**.00206**	**-.00290**	**.00010**	**-.00007**	**.00224**	**.00001**
Stddev	.00005	.01837	.00014	.00050	.00000	.00004	.00222	.00008
%RSD	10.564	79.394	6.6585	17.173	3.1024	51.545	99.223	1052.9
#1	.00056	.01015	.00196	-.00255	.00009	-.00004	.00381	-.00005
#2	.00048	.03613	.00216	-.00325	.00010	-.00009	.00067	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0106**	**.00022**	**.00003**	**.00021**	**.00361**	**-.15577**	**-.00042**	**.00339**
Stddev	.0101	.00002	.00026	.00017	.00056	.00966	.00001	.00103
%RSD	95.04	10.001	1017.4	81.587	15.634	6.1996	2.4994	30.325
#1	.0035	.00021	.00021	.00009	.00321	-.14894	-.00041	.00266
#2	.0178	.00024	-.00016	.00032	.00401	-.16260	-.00042	.00412
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00002**	**.00039**	**-.00838**	**-.00009**	z *****	**.00007**	**-.0024**	**-.00132**
Stddev	.00000	.00137	.00448	.00000	-----	.00074	.0007	.00167
%RSD	1.7696	352.51	53.393	2.0072	-----	995.54	29.39	126.61
#1	.00002	.00136	-.01155	-.00010	z 139.1	-.00045	-.0029	-.00250
#2	.00002	-.00058	-.00522	-.00009	z 139.2	.00060	-.0019	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 20:01:53 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00374**	**-.00175**	**-.00051**	**.00000**	**.0146**	**-.00018**	**-.00058**	**-.00012**
Stddev	.00003	.02681	.00050	.00001	.0069	.00028	.00017	.00013
%RSD	.71565	1533.5	98.497	5131.2	46.95	159.69	29.950	108.64
#1	.00372	-.02070	-.00016	.00001	.0098	-.00037	-.00070	-.00021
#2	.00376	.01721	-.00087	-.00001	.0195	.00002	-.00046	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00048**	**.0011**
Stddev	.00061	.0001
%RSD	128.02	11.91
#1	.00091	.0012
#2	.00005	.0010
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3798.8**	**2887.3**	**61144.**	**3161.8**
Stddev	2.2	2.4	114.	13.1
%RSD	.05894	.08465	.18562	.41475
#1	3797.2	2889.1	61224.	3171.1
#2	3800.3	2885.6	61063.	3152.5

Sample Name: CCVL-6603764 Acquired: 8/10/2021 20:05:44 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00573**	**.20841**	**.01324**	**.01577**	**.00214**	**.00193**	**.49122**
Stddev	.00008	.03395	.00166	.00015	.00001	.00003	.00291
%RSD	1.4498	16.290	12.554	.96822	.60726	1.3870	.59329
#1	.00567	.18441	.01442	.01566	.00215	.00191	.48916
#2	.00578	.23242	.01207	.01588	.00213	.00194	.49328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.0189**	**.00388**	**.00404**	**.00953**	**.04855**	W **.34619**
Stddev	.00009	.0053	.00004	.00001	.00014	.00040	.01570
%RSD	4.7891	28.05	1.0475	.34742	1.5173	.81735	4.5339
#1	.00191	.0152	.00391	.00405	.00963	.04883	.33509
#2	.00178	.0227	.00386	.00403	.00942	.04827	.35729
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02613**	**.18948**	**.00315**	F **.00471**	**.98655**	**.00957**	z *****
Stddev	.00158	.00135	.00002	.00024	.00007	.00022	-----
%RSD	6.0612	.71500	.54346	5.1811	.00740	2.2818	-----
#1	.02501	.18852	.00317	.00488	.98650	.00972	z 137.6
#2	.02725	.19044	.00314	.00453	.98660	.00941	z 138.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 20:05:44 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00971**	**.1896**	**.01724**	**.02198**	**.44980**	**.00901**	**.00477**
Stddev	.00023	.0010	.00114	.00042	.02204	.00033	.00004
%RSD	2.3463	.5513	6.6274	1.9195	4.8992	3.6894	.87516
#1	.00954	.1889	.01643	.02228	.43422	.00924	.00474
#2	.00987	.1904	.01805	.02168	.46538	.00877	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0088**	**.00462**	**.01803**	**.00470**	**.00954**	**.0018**
Stddev	.0231	.00013	.00058	.00024	.00043	.0013
%RSD	262.1	2.9207	3.2227	5.0331	4.4761	74.40
#1	-.0075	.00452	.01844	.00487	.00923	.0008
#2	.0251	.00471	.01762	.00453	.00984	.0027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3780.0**	**2886.0**	**61067.**	**3157.7**
Stddev	2.2	4.5	14.	18.6
%RSD	.05896	.15565	.02372	.59000
#1	3778.4	2882.9	61078.	3170.9
#2	3781.6	2889.2	61057.	3144.5

Sample Name: 480-187922-A-28-D@2 Acquired: 8/10/2021 20:09:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**34.970**	**.01833**	**.11772**	**.08679**
Stddev	.00021	.018	.00478	.00055	.00021
%RSD	49.348	.05226	26.054	.46668	.24578
#1	.00028	34.957	.02171	.11811	.08664
#2	.00057	34.983	.01495	.11733	.08694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00181**	**732.65**	**.00027**	**.1656**	**.01565**
Stddev	.00006	.19	.00011	.0103	.00025
%RSD	3.0963	.02620	42.573	6.201	1.5682
#1	.00177	732.51	.00019	.1583	.01582
#2	.00185	732.79	.00035	.1728	.01547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03748**	**.02478**	**39.523**	**13.803**	**.05522**
Stddev	.00005	.00007	.204	.027	.00062
%RSD	.12011	.27331	.51708	.19887	1.1211
#1	.03744	.02482	39.378	13.784	.05479
#2	.03751	.02473	39.667	13.823	.05566
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-A-28-D@2 Acquired: 8/10/2021 20:09:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**114.38**	**1.0744**	**-.00616**	**.63492**	**.03714**
Stddev	.26	.0029	.00006	.00866	.00074
%RSD	.22712	.26612	1.0219	1.3640	1.9979
#1	114.19	1.0724	-.00621	.62880	.03661
#2	114.56	1.0764	-.00612	.64105	.03766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05288**	**1.114**	**-.00612**	**-.00499**
Stddev	-----	.00053	.000	.00149	.00250
%RSD	-----	1.0001	.0256	24.343	49.998
#1	z 484.0	.05251	1.114	-.00718	-.00675
#2	z 487.6	.05325	1.114	-.00507	-.00323
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.61131**	**.01525**	**.46947**	**.0451**	**.03340**
Stddev	.00058	.00134	.00134	.0050	.00024
%RSD	.09531	8.7554	.28447	11.03	.72701
#1	.61172	.01620	.46853	.0486	.03357
#2	.61090	.01431	.47042	.0415	.03323
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-A-28-D@2 Acquired: 8/10/2021 20:09:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00178**	**.04447**	**.03207**	**.0201**
Stddev	.00008	.00024	.00016	.0004
%RSD	4.3737	.54203	.51304	1.988
#1	-.00184	.04430	.03195	.0199
#2	-.00173	.04464	.03218	.0204
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2909.6**	**2704.8**	**56018.**	**3230.4**
Stddev	1.2	4.5	211.	18.5
%RSD	.04128	.16477	.37587	.57254
#1	2908.7	2701.7	56167.	3243.4
#2	2910.4	2708.0	55869.	3217.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.029%	94.772%	92.835%	103.55%
Range				

Sample Name: 480-187922-B-31-D@2 Acquired: 8/10/2021 20:13:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**30.001**	**.01871**	**.11312**	**.11524**
Stddev	.00006	.151	.00062	.00060	.00015
%RSD	4.7015	.50308	3.3284	.53319	.13090
#1	.00123	30.108	.01915	.11355	.11534
#2	.00131	29.895	.01827	.11269	.11513
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00176**	**624.46**	**.00013**	**.1534**	**.02114**
Stddev	.00000	.58	.00008	.0131	.00017
%RSD	.19988	.09366	66.788	8.512	.80094
#1	.00176	624.05	.00007	.1441	.02102
#2	.00176	624.88	.00019	.1626	.02126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03420**	**.03234**	**45.703**	**14.840**	**.05105**
Stddev	.00015	.00005	.028	.028	.00042
%RSD	.43915	.15807	.06116	.19163	.83161
#1	.03409	.03230	45.723	14.860	.05075
#2	.03430	.03237	45.683	14.820	.05135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-31-D@2 Acquired: 8/10/2021 20:13:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**69.071**	**1.1304**	**-.00661**	**.65555**	**.04186**
Stddev	.158	.0014	.00022	.00417	.00004
%RSD	.22893	.12178	3.3603	.63604	.09796
#1	68.959	1.1294	-.00646	.65850	.04189
#2	69.182	1.1313	-.00677	.65260	.04183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05661**	**1.032**	**-.00680**	**-.00446**
Stddev	-----	.00146	.001	.00264	.00005
%RSD	-----	2.5745	.0539	38.826	1.1129
#1	z 474.2	.05558	1.031	-.00494	-.00442
#2	z 475.1	.05764	1.032	-.00867	-.00450
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.49201**	**.01554**	**.59386**	**.0520**	**.02809**
Stddev	.02884	.00015	.00278	.0013	.00020
%RSD	5.8607	.97326	.46826	2.573	.70851
#1	.51240	.01565	.59583	.0511	.02823
#2	.47162	.01543	.59189	.0530	.02795
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187922-B-31-D@2 Acquired: 8/10/2021 20:13:23 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00121**	**.03904**	**.04628**	**.0197**
Stddev	.00147	.00008	.00077	.0017
%RSD	121.51	.20715	1.6654	8.529
#1	-.00017	.03898	.04682	.0185
#2	-.00225	.03909	.04573	.0209
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2973.9**	**2738.2**	**56823.**	**3224.7**
Stddev	.2	.1	55.	18.8
%RSD	.00530	.00339	.09681	.58327
#1	2973.8	2738.2	56862.	3211.4
#2	2974.0	2738.3	56784.	3238.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.732%	95.944%	94.169%	103.37%
Range				

Sample Name: 480-187977-A-2-B@2 Acquired: 8/10/2021 20:17:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**37.700**	**.02315**	**.14156**	**.07035**
Stddev	.00031	.124	.00256	.00033	.00009
%RSD	91.829	.32870	11.064	.23007	.12484
#1	.00012	37.613	.02496	.14133	.07042
#2	.00056	37.788	.02134	.14179	.07029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00216**	**598.69**	**.00016**	**.1785**	**.02110**
Stddev	.00006	.81	.00022	.0150	.00013
%RSD	3.0047	.13474	132.44	8.425	.59894
#1	.00211	598.12	.00001	.1891	.02119
#2	.00220	599.26	.00032	.1679	.02101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04170**	**.03253**	**47.962**	**18.433**	**.06110**
Stddev	.00012	.00019	.217	.035	.00027
%RSD	.28147	.59267	.45343	.19246	.44265
#1	.04178	.03267	47.808	18.408	.06091
#2	.04162	.03239	48.116	18.458	.06129
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-A-2-B@2 Acquired: 8/10/2021 20:17:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**101.31**	**1.1866**	**-.00702**	**.63760**	**.05323**
Stddev	.12	.0013	.00010	.01232	.00009
%RSD	.11517	.10583	1.4103	1.9327	.16397
#1	101.23	1.1857	-.00709	.62888	.05329
#2	101.40	1.1874	-.00695	.64631	.05316
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05948**	**1.233**	**-.00340**	**-.00349**
Stddev	-----	.00056	.004	.00233	.00110
%RSD	-----	.94519	.3143	68.307	31.457
#1	z 428.1	.05988	1.236	-.00505	-.00271
#2	z 426.9	.05909	1.231	-.00176	-.00427
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.48924**	**.01649**	**.49130**	**.0600**	**.03257**
Stddev	.01117	.00101	.00018	.0101	.00027
%RSD	2.2826	6.1500	.03609	16.80	.84206
#1	.48134	.01577	.49117	.0528	.03237
#2	.49714	.01720	.49142	.0671	.03276
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-A-2-B@2 Acquired: 8/10/2021 20:17:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00010**	**.04731**	**.03875**	**.0222**
Stddev	.00029	.00009	.00073	.0003
%RSD	276.44	.18727	1.8721	1.184
#1	.00031	.04725	.03926	.0220
#2	-.00010	.04737	.03823	.0224
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2960.0**	**2743.9**	**56973.**	**3254.2**
Stddev	.8	1.2	56.	1.6
%RSD	.02645	.04330	.09909	.04855
#1	2959.5	2744.7	56934.	3253.1
#2	2960.6	2743.0	57013.	3255.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.365%	96.140%	94.419%	104.31%
Range				

Sample Name: 480-187977-C-3-A@2 Acquired: 8/10/2021 20:20:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00050**	**32.401**	**.03563**	**.13195**	**.06002**
Stddev	.00020	.050	.00163	.00021	.00020
%RSD	39.341	.15367	4.5886	.15553	.33677
#1	.00036	32.436	.03678	.13210	.05988
#2	.00064	32.365	.03447	.13181	.06016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00191**	**703.38**	**.00036**	**.2119**	**.02354**
Stddev	.00011	2.53	.00011	.0037	.00014
%RSD	5.8355	.35940	32.205	1.742	.58544
#1	.00183	705.17	.00027	.2093	.02364
#2	.00198	701.60	.00044	.2145	.02344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03684**	**.03534**	**47.737**	**16.675**	**.05681**
Stddev	.00041	.00008	.014	.006	.00105
%RSD	1.1023	.23339	.03021	.03501	1.8425
#1	.03656	.03540	47.726	16.680	.05755
#2	.03713	.03529	47.747	16.671	.05607
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-C-3-A@2 Acquired: 8/10/2021 20:20:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**104.26**	**1.1979**	**-.00704**	**.71599**	**.05205**
Stddev	.10	.0021	.00026	.00286	.00021
%RSD	.09817	.17705	3.7131	.40007	.40959
#1	104.19	1.1964	-.00686	.71801	.05190
#2	104.33	1.1994	-.00723	.71396	.05220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.06687**	**1.186**	**-.00632**	**-.00648**
Stddev	-----	.00137	.007	.00371	.00061
%RSD	-----	2.0520	.6131	58.591	9.4626
#1	z 789.8	.06784	1.181	-.00370	-.00604
#2	z 788.9	.06590	1.191	-.00894	-.00691
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.69990**	**.01597**	**.56529**	**.0574**	**.03460**
Stddev	.02211	.00009	.00023	.0164	.00087
%RSD	3.1584	.58799	.04054	28.61	2.5245
#1	.71553	.01590	.56546	.0690	.03398
#2	.68427	.01604	.56513	.0458	.03522
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-C-3-A@2 Acquired: 8/10/2021 20:20:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00134**	**.04268**	**.03547**	**.0221**
Stddev	.00046	.00003	.00046	.0011
%RSD	34.308	.08025	1.2861	5.051
#1	-.00102	.04266	.03579	.0229
#2	-.00167	.04271	.03515	.0213
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2914.9**	**2748.3**	**57172.**	**3261.9**
Stddev	2.5	1.3	22.	1.8
%RSD	.08517	.04705	.03813	.05625
#1	2916.7	2749.2	57156.	3260.6
#2	2913.2	2747.3	57187.	3263.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.171%	96.295%	94.747%	104.56%
Range				

Sample Name: 480-187977-A-9-B@2 Acquired: 8/10/2021 20:24:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**34.325**	**.01532**	**.14018**	**.06961**
Stddev	.00028	.123	.00075	.00047	.00013
%RSD	54.027	.35859	4.8977	.33191	.18943
#1	.00073	34.238	.01479	.13985	.06952
#2	.00033	34.412	.01585	.14051	.06970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00206**	**644.30**	**.00028**	**.1623**	**.02263**
Stddev	.00000	7.21	.00006	.0103	.00015
%RSD	.21314	1.1194	19.493	6.343	.65830
#1	.00206	649.40	.00032	.1550	.02252
#2	.00207	639.20	.00024	.1695	.02273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03735**	**.02854**	**46.131**	**18.065**	**.06220**
Stddev	.00008	.00049	.022	.011	.00068
%RSD	.22571	1.7187	.04794	.06016	1.0907
#1	.03741	.02820	46.116	18.058	.06268
#2	.03729	.02889	46.147	18.073	.06172
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-A-9-B@2 Acquired: 8/10/2021 20:24:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**69.811**	**1.2055**	**-.00714**	**.64856**	**.06237**
Stddev	.129	.0021	.00010	.00222	.00047
%RSD	.18455	.17461	1.4569	.34259	.75612
#1	69.720	1.2040	-.00722	.64699	.06271
#2	69.903	1.2070	-.00707	.65013	.06204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05083**	**1.932**	**-.00798**	**-.00775**
Stddev	-----	.00251	.007	.00225	.00014
%RSD	-----	4.9357	.3642	28.144	1.7947
#1	z 415.8	.04906	1.937	-.00957	-.00765
#2	z 416.4	.05261	1.927	-.00639	-.00785
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.3267**	**.01577**	**.55065**	**.0561**	**.04513**
Stddev	.0149	.00032	.00107	.0025	.00207
%RSD	1.1226	2.0021	.19356	4.401	4.5864
#1	1.3372	.01600	.54990	.0578	.04366
#2	1.3162	.01555	.55140	.0543	.04659
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-A-9-B@2 Acquired: 8/10/2021 20:24:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00046**	**.04106**	**.03808**	**.0199**
Stddev	.00028	.00031	.00042	.0007
%RSD	60.907	.75255	1.1137	3.481
#1	-.00065	.04084	.03778	.0204
#2	-.00026	.04128	.03838	.0194
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2959.4**	**2735.1**	**57012.**	**3254.1**
Stddev	2.6	2.4	248.	6.6
%RSD	.08856	.08903	.43447	.20332
#1	2961.2	2736.8	57187.	3249.4
#2	2957.5	2733.4	56837.	3258.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.347%	95.834%	94.482%	104.31%
Range				

Sample Name: 480-187977-A-10-B@2 Acquired: 8/10/2021 20:28:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00078**	**41.659**	**.01553**	**.13183**	**.12752**
Stddev	.00075	.029	.00123	.00007	.00024
%RSD	96.179	.07029	7.9043	.05335	.18559
#1	.00025	41.639	.01467	.13178	.12735
#2	.00132	41.680	.01640	.13188	.12769
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**529.94**	**.00057**	**.1853**	**.02013**
Stddev	.00007	.45	.00003	.0138	.00000
%RSD	3.1529	.08486	5.3056	7.442	.01183
#1	.00220	530.26	.00059	.1756	.02013
#2	.00210	529.63	.00054	.1951	.02013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04579**	**.03604**	**51.815**	**15.381**	**.06456**
Stddev	.00011	.00019	.109	.010	.00086
%RSD	.23866	.53847	.21094	.06420	1.3302
#1	.04587	.03590	51.737	15.374	.06517
#2	.04571	.03617	51.892	15.388	.06396
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-A-10-B@2 Acquired: 8/10/2021 20:28:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**136.13**	**1.3580**	**-.00713**	**.64200**	**.04793**
Stddev	.84	.0047	.00009	.00315	.00035
%RSD	.61340	.34966	1.2918	.49084	.74065
#1	136.72	1.3614	-.00720	.63977	.04818
#2	135.54	1.3546	-.00707	.64423	.04768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05754**	**.9792**	**-.00573**	**-.00536**
Stddev	-----	.00181	.0041	.00023	.00198
%RSD	-----	3.1510	.4189	4.0954	37.032
#1	z 671.2	.05882	.9763	-.00556	-.00676
#2	z 671.2	.05625	.9821	-.00589	-.00395
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.2791**	**.01507**	**.36970**	**.0614**	**.08849**
Stddev	.0034	.00055	.00038	.0082	.00129
%RSD	.26364	3.6256	.10354	13.38	1.4534
#1	1.2767	.01469	.36943	.0672	.08940
#2	1.2815	.01546	.36997	.0556	.08758
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-A-10-B@2 Acquired: 8/10/2021 20:28:35 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.05915**	**.06322**	**.0268**
Stddev	.00140	.00044	.00023	.0012
%RSD	257.00	.75011	.35924	4.414
#1	-.00153	.05884	.06338	.0260
#2	.00044	.05946	.06306	.0276
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2967.8**	**2750.7**	**57185.**	**3262.8**
Stddev	1.0	.1	224.	10.5
%RSD	.03354	.00380	.39199	.32261
#1	2968.5	2750.7	57026.	3270.3
#2	2967.1	2750.6	57343.	3255.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.571%	96.379%	94.769%	104.59%
Range				

Sample Name: 187977-A-10-BSD@10 Acquired: 8/10/2021 20:32:29 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**9.1419**	**.00287**	**.02635**	**.02860**
Stddev	.00049	.0240	.00165	.00010	.00004
%RSD	131.66	.26271	57.317	.36067	.14979
#1	-.00003	9.1249	.00404	.02628	.02863
#2	-.00072	9.1589	.00171	.02642	.02857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**123.07**	**.00017**	**.0466**	**.00409**
Stddev	.00002	.00	.00002	.0101	.00004
%RSD	3.8390	.00015	10.747	21.64	.92146
#1	.00045	123.07	.00015	.0538	.00407
#2	.00048	123.07	.00018	.0395	.00412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01013**	**.00797**	**11.826**	**3.1655**	**.01246**
Stddev	.00018	.00054	.023	.0308	.00150
%RSD	1.7305	6.8388	.19258	.97360	12.076
#1	.01026	.00758	11.842	3.1873	.01139
#2	.01001	.00835	11.810	3.1437	.01352
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 187977-A-10-BSD@10 Acquired: 8/10/2021 20:32:29 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.154**	**.30283**	**-.00773**	**.13133**	**.00968**
Stddev	.019	.00049	.00006	.00268	.00024
%RSD	.06351	.16225	.74530	2.0428	2.4473
#1	29.141	.30318	-.00769	.12943	.00985
#2	29.167	.30248	-.00777	.13323	.00951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.01202**	**.1777**	**-.00171**	**-.00321**
Stddev	-----	.00033	.0045	.00179	.00013
%RSD	-----	2.7731	2.505	104.84	3.9682
#1	z 268.7	.01225	.1745	-.00297	-.00312
#2	z 269.6	.01178	.1808	-.00044	-.00330
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.27069**	**.00255**	**.08218**	**.0120**	**.02022**
Stddev	.02140	.00001	.00028	.0012	.00120
%RSD	7.9041	.40640	.33623	9.922	5.9132
#1	.25556	.00254	.08238	.0129	.01938
#2	.28582	.00255	.08199	.0112	.02107
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 187977-A-10-BSD@10 Acquired: 8/10/2021 20:32:29 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00112**	**.01294**	**.01481**	**.0060**
Stddev	.00051	.00008	.00045	.0010
%RSD	45.810	.59070	3.0557	17.10
#1	-.00148	.01300	.01513	.0067
#2	-.00076	.01289	.01449	.0053
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3390.4**	**2791.0**	**58735.**	**3176.0**
Stddev	2.7	3.9	67.	2.2
%RSD	.08111	.13809	.11396	.06790
#1	3388.5	2788.3	58782.	3174.5
#2	3392.4	2793.8	58687.	3177.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.759%	97.793%	97.338%	101.81%
Range				

Sample Name: 187977-A-10-BPDS@2 Acquired: 8/10/2021 20:36:16 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.09154**	**57.621**	**.40161**	**.48519**	**.49813**
Stddev	.00043	.025	.00067	.00221	.00022
%RSD	.46515	.04251	.16745	.45614	.04450
#1	.09124	57.603	.40114	.48363	.49828
#2	.09184	57.638	.40209	.48676	.49797
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.36855**	**520.94**	**.37868**	**.1894**	**.40379**
Stddev	.00016	4.58	.00125	.0043	.00036
%RSD	.04287	.87865	.33052	2.276	.08893
#1	.36844	517.70	.37779	.1863	.40405
#2	.36867	524.18	.37956	.1924	.40354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.39321**	**.40431**	**65.614**	**33.125**	**.41037**
Stddev	.00069	.00036	.031	.070	.00225
%RSD	.17673	.08925	.04761	.21148	.54808
#1	.39370	.40405	65.592	33.076	.41196
#2	.39272	.40456	65.636	33.175	.40878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 187977-A-10-BPDS@2 Acquired: 8/10/2021 20:36:16 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**147.00**	**1.6490**	**.37222**	**18.861**	**.43068**
Stddev	1.25	.0025	.00091	.023	.00020
%RSD	.85182	.15115	.24537	.12228	.04670
#1	147.89	1.6508	.37157	18.877	.43082
#2	146.12	1.6472	.37286	18.844	.43053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.44799**	**19.92**	**.40351**	**.35841**
Stddev	-----	.00014	.01	.00255	.00150
%RSD	-----	.03164	.0723	.63094	.41802
#1	z 667.4	.44789	19.91	.40171	.35947
#2	z 667.0	.44809	19.93	.40531	.35735
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**20.188**	**.40374**	**.70096**	**.0812**	**.48925**
Stddev	.069	.00051	.00103	.0085	.00616
%RSD	.34402	.12710	.14734	10.46	1.2585
#1	20.237	.40410	.70169	.0872	.49360
#2	20.139	.40338	.70023	.0752	.48489
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 187977-A-10-BPDS@2 Acquired: 8/10/2021 20:36:16 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.38607**	**.42013**	**.40591**	**.1076**
Stddev	.00248	.00037	.00023	.0049
%RSD	.64250	.08731	.05617	4.521
#1	.38431	.42039	.40575	.1111
#2	.38782	.41987	.40607	.1042
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2926.2**	**2734.9**	**56742.**	**3259.1**
Stddev	1.2	6.7	17.	24.4
%RSD	.04218	.24473	.02967	.74802
#1	2927.0	2739.6	56731.	3276.3
#2	2925.3	2730.1	56754.	3241.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.468%	95.825%	94.036%	104.47%
Range				

Sample Name: 187977-A-10-C MS@2 Acquired: 8/10/2021 20:40:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04707**	**109.75**	**.21428**	**.57237**	**.46911**
Stddev	.00033	.11	.00299	.00236	.00320
%RSD	.69646	.10283	1.3956	.41319	.68240
#1	.04684	109.83	.21640	.57069	.46685
#2	.04730	109.67	.21217	.57404	.47138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19137**	**534.69**	**.19253**	**.2098**	**.21786**
Stddev	.00020	1.72	.00000	.0228	.00000
%RSD	.10636	.32127	.00126	10.89	.00221
#1	.19123	533.48	.19253	.1937	.21786
#2	.19152	535.90	.19253	.2260	.21785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.26549**	**.22555**	**68.645**	**49.816**	**.28013**
Stddev	.00016	.00016	.260	.028	.00092
%RSD	.06118	.06942	.37851	.05568	.32816
#1	.26538	.22566	68.462	49.836	.27948
#2	.26561	.22544	68.829	49.797	.28078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 187977-A-10-C MS@2 Acquired: 8/10/2021 20:40:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**138.99**	**1.4764**	**.18341**	**10.798**	**.24873**
Stddev	.07	.0068	.00041	.003	.00063
%RSD	.05260	.46046	.22419	.02376	.25276
#1	139.04	1.4716	.18312	10.799	.24917
#2	138.94	1.4812	.18370	10.796	.24828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.26175**	**10.81**	**.12004**	**.18292**
Stddev	-----	.00131	.04	.00265	.00094
%RSD	-----	.49970	.3652	2.2064	.51595
#1	z 680.1	.26083	10.78	.11817	.18226
#2	z 678.2	.26268	10.84	.12191	.18359
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7018**	**.20931**	**.58683**	**.0746**	**.73631**
Stddev	.0034	.00057	.00009	.0055	.00614
%RSD	.19801	.27018	.01576	7.385	.83345
#1	1.7042	.20971	.58676	.0707	.73197
#2	1.6994	.20891	.58690	.0785	.74065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 187977-A-10-C MS@2 Acquired: 8/10/2021 20:40:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19607**	**.31105**	**.25114**	**.0722**
Stddev	.00056	.00079	.00132	.0010
%RSD	.28376	.25316	.52633	1.450
#1	.19647	.31050	.25207	.0715
#2	.19568	.31161	.25020	.0730
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2917.4**	**2767.4**	**56642.**	**3262.2**
Stddev	2.3	5.8	9.	6.7
%RSD	.07843	.21055	.01662	.20432
#1	2919.0	2771.5	56649.	3257.5
#2	2915.8	2763.2	56636.	3266.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.236%	96.964%	93.870%	104.57%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 20:44:01 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.93979	48.318	.97352	.99075	.97704	.97823	48.894	.97619
Stddev	.00139	.124	.00360	.00131	.00198	.00231	.049	.00043
%RSD	.14776	.25630	.36989	.13242	.20244	.23564	.10056	.04432
#1	.94077	48.406	.97606	.99168	.97564	.97986	48.928	.97589
#2	.93881	48.231	.97097	.98982	.97843	.97660	48.859	.97650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9438	.98156	.97339	.98294	47.822	48.247	.91820	47.124
Stddev	.0299	.00019	.00186	.00031	.166	.021	.00185	.028
%RSD	3.163	.01929	.19059	.03115	.34725	.04265	.20115	.05951
#1	.9227	.98143	.97470	.98272	47.705	48.232	.91950	47.144
#2	.9649	.98170	.97207	.98315	47.940	48.262	.91689	47.104
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	.96101	1.0064	48.133	.98151	z *****	.98735	24.76	.97549
Stddev	.00003	.0041	.056	.00070	-----	.00404	.01	.00080
%RSD	.00275	.40475	.11703	.07113	-----	.40925	.0258	.08160
#1	.96102	1.0035	48.093	.98102	z 9020.	.98450	24.76	.97493
#2	.96099	1.0092	48.173	.98200	z 9009.	.99021	24.76	.97605
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 20:44:01 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97829	9.4560	.99238	.96530	.9652	.98255	.98989	.98363
Stddev	.00643	.0181	.00174	.00134	.0004	.00027	.00109	.00025
%RSD	.65720	.19158	.17556	.13844	.0440	.02749	.11041	.02539
#1	.98284	9.4688	.99115	.96435	.9655	.98236	.99066	.98345
#2	.97374	9.4431	.99361	.96624	.9649	.98274	.98912	.98381
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0020	.9411
Stddev	.0033	.0014
%RSD	.32877	.1509
#1	.99964	.9421
#2	1.0043	.9401
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3255.9	2775.6	57195.	3135.3
Stddev	4.5	2.0	76.	7.3
%RSD	.13817	.07206	.13220	.23300
#1	3259.1	2777.0	57141.	3140.5
#2	3252.7	2774.1	57248.	3130.1

Sample Name: CCB-6597963 Acquired: 8/10/2021 20:47:37 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.03845**	**.00101**	**-.00310**	**.00013**	**-.00006**	**.00207**	**-.00005**
Stddev	.00027	.01307	.00060	.00039	.00001	.00003	.00086	.00006
%RSD	88.234	33.999	59.498	12.609	9.3507	51.490	41.377	133.70
#1	-.00012	.02921	.00144	-.00337	.00012	-.00009	.00146	-.00009
#2	-.00050	.04770	.00059	-.00282	.00014	-.00004	.00267	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0336**	**.00004**	**-.00002**	**-.00017**	**.00449**	**-.14713**	**-.00035**	**.00189**
Stddev	.0299	.00005	.00008	.00003	.00022	.02196	.00113	.00367
%RSD	89.23	108.83	475.84	17.537	4.8129	14.927	325.24	194.10
#1	-.0124	.00001	.00004	-.00015	.00464	-.13160	.00045	-.00070
#2	-.0547	.00007	-.00007	-.00019	.00434	-.16266	-.00115	.00448
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00002**	**.00128**	**-.00653**	**-.00013**	z *****	**.00060**	**-.0026**	**.00032**
Stddev	.00009	.00101	.00230	.00019	-----	.00017	.0021	.00010
%RSD	488.31	78.452	35.236	147.90	-----	28.403	79.73	31.786
#1	-.00005	.00200	-.00491	.00001	z 138.2	.00048	-.0041	.00040
#2	.00008	.00057	-.00816	-.00026	z 137.9	.00072	-.0011	.00025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 20:47:37 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00554	-.01842	.00001	-.00004	.0054	.00008	-.00112	-.00008
Stddev	.00126	.00242	.00052	.00001	.0015	.00026	.00032	.00007
%RSD	22.771	13.157	4034.8	15.398	27.51	321.54	28.561	96.085
#1	.00643	-.01671	.00038	-.00004	.0065	.00026	-.00135	-.00013
#2	.00465	-.02013	-.00036	-.00005	.0044	-.00010	-.00090	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00002	.0004
Stddev	.00068	.0027
%RSD	3256.3	707.5
#1	-.00046	.0023
#2	.00050	-.0015
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3802.3	2878.7	61108.	3149.4
Stddev	1.0	2.8	124.	1.1
%RSD	.02676	.09885	.20367	.03638
#1	3801.5	2880.7	61196.	3150.2
#2	3803.0	2876.7	61020.	3148.6

Sample Name: CCVL-6603764 Acquired: 8/10/2021 20:51:29 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00565**	**.21328**	**.01474**	**.01552**	**.00212**	**.00192**	**.49672**
Stddev	.00057	.00451	.00005	.00021	.00003	.00006	.00213
%RSD	10.141	2.1135	.31839	1.3450	1.2685	3.1787	.42846
#1	.00605	.21646	.01477	.01567	.00211	.00196	.49822
#2	.00524	.21009	.01471	.01537	.00214	.00188	.49521
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**.0028**	**.00390**	**.00390**	**.00941**	**.04603**	W **.32448**
Stddev	.00008	.0099	.00001	.00028	.00021	.00145	.01978
%RSD	4.1194	358.1	.12955	7.2868	2.2841	3.1588	6.0963
#1	.00188	.0098	.00390	.00410	.00926	.04500	.31049
#2	.00178	-.0042	.00391	.00370	.00956	.04706	.33847
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02673**	**.19316**	**.00309**	F **.00463**	**.98735**	**.00940**	z *****
Stddev	.00006	.00257	.00007	.00012	.00150	.00039	-----
%RSD	.22334	1.3317	2.4270	2.6791	.15236	4.1321	-----
#1	.02677	.19134	.00304	.00454	.98629	.00967	z 138.0
#2	.02669	.19498	.00314	.00471	.98842	.00913	z 137.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 20:51:29 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01005**	**.1966**	**.01928**	**.02490**	**.43766**	**.00886**	**.00469**
Stddev	.00017	.0044	.00006	.00069	.02171	.00004	.00006
%RSD	1.6811	2.257	.31197	2.7896	4.9606	.43379	1.2331
#1	.00993	.1997	.01933	.02539	.45301	.00889	.00465
#2	.01017	.1935	.01924	.02441	.42231	.00884	.00473
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.00462**	**.01806**	**.00470**	**.00992**	**.0003**
Stddev	.0044	.00009	.00016	.00019	.00001	.0004
%RSD	1750.	1.8717	.86615	4.0353	.08549	118.8
#1	.0034	.00455	.01817	.00456	.00992	.0001
#2	-.0029	.00468	.01795	.00483	.00991	.0006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3791.6**	**2888.6**	**61334.**	**3165.6**
Stddev	5.8	10.8	79.	7.8
%RSD	.15212	.37254	.12823	.24688
#1	3795.6	2896.2	61390.	3171.1
#2	3787.5	2881.0	61278.	3160.1

Sample Name: 187977-A-10-D MSD@2 Acquired: 8/10/2021 20:55:19 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04761**	**108.95**	**.21769**	**.59096**	**.48328**
Stddev	.00022	.47	.00270	.00081	.00218
%RSD	.46723	.43391	1.2381	.13669	.45187
#1	.04776	109.28	.21579	.59039	.48174
#2	.04745	108.61	.21960	.59153	.48483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19196**	**530.07**	**.19576**	**.2234**	**.22404**
Stddev	.00004	.54	.00048	.0098	.00039
%RSD	.02139	.10265	.24773	4.400	.17238
#1	.19193	529.69	.19610	.2164	.22377
#2	.19199	530.46	.19541	.2303	.22432
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.27414**	**.23049**	**66.716**	**51.112**	**.28085**
Stddev	.00021	.00005	.360	.114	.00088
%RSD	.07842	.02129	.54026	.22353	.31228
#1	.27399	.23045	66.971	51.193	.28147
#2	.27429	.23052	66.462	51.031	.28023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 187977-A-10-D MSD@2 Acquired: 8/10/2021 20:55:19 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**172.12**	**1.6680**	**.18354**	**11.101**	**.25265**
Stddev	1.22	.0034	.00099	.026	.00051
%RSD	.70833	.20125	.53753	.23480	.20026
#1	171.26	1.6656	.18284	11.120	.25301
#2	172.98	1.6703	.18424	11.083	.25229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.26411**	**11.44**	**.12475**	**.18210**
Stddev	-----	.00078	.02	.00107	.00251
%RSD	-----	.29459	.1992	.85430	1.3775
#1	z 742.5	.26356	11.42	.12550	.18033
#2	z 743.0	.26466	11.45	.12400	.18387
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1509**	**.20870**	**.55929**	**.0820**	**.69815**
Stddev	.0154	.00094	.00234	.0084	.00017
%RSD	1.3396	.44979	.41769	10.25	.02396
#1	1.1618	.20804	.56094	.0760	.69827
#2	1.1400	.20936	.55764	.0879	.69803
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 187977-A-10-D MSD@2 Acquired: 8/10/2021 20:55:19 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19807**	**.31033**	**.25961**	**.0716**
Stddev	.00196	.00034	.00022	.0011
%RSD	.98727	.11005	.08326	1.467
#1	.19669	.31009	.25977	.0709
#2	.19945	.31057	.25946	.0724
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2905.7**	**2759.4**	**56983.**	**3282.3**
Stddev	2.7	.1	215.	4.5
%RSD	.09180	.00274	.37659	.13707
#1	2907.5	2759.3	57135.	3279.1
#2	2903.8	2759.5	56831.	3285.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.925%	96.685%	94.435%	105.22%
Range				

Sample Name: 480-187977-C-13-A@2 Acquired: 8/10/2021 20:59:12 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00103**	**36.889**	**.01503**	**.12704**	**.13058**
Stddev	.00018	.069	.00034	.00020	.00020
%RSD	17.435	.18614	2.2563	.15751	.14957
#1	.00116	36.840	.01479	.12690	.13044
#2	.00091	36.937	.01527	.12719	.13072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**720.98**	**.00046**	**.1871**	**.01522**
Stddev	.00002	2.55	.00009	.0026	.00027
%RSD	.83830	.35425	18.800	1.364	1.7990
#1	.00186	719.18	.00040	.1853	.01541
#2	.00188	722.79	.00052	.1889	.01502
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03866**	**.03244**	**38.110**	**14.311**	**.04992**
Stddev	.00042	.00024	.166	.025	.00033
%RSD	1.0775	.74467	.43676	.17420	.65401
#1	.03895	.03261	37.992	14.294	.05015
#2	.03836	.03227	38.228	14.329	.04968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-C-13-A@2 Acquired: 8/10/2021 20:59:12 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**63.660**	**1.0746**	**-.00448**	**.62255**	**.03656**
Stddev	.192	.0024	.00019	.00266	.00007
%RSD	.30104	.22101	4.1875	.42807	.18813
#1	63.525	1.0729	-.00435	.62444	.03661
#2	63.796	1.0763	-.00461	.62067	.03651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.04672**	**.9766**	**-.00619**	**-.00688**
Stddev	-----	.00125	.0024	.00375	.00612
%RSD	-----	2.6676	.2450	60.595	88.968
#1	z 522.7	.04761	.9749	-.00885	-.01121
#2	z 521.8	.04584	.9783	-.00354	-.00255
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96678**	**.01656**	**.63462**	**.0507**	**.06428**
Stddev	.01048	.00094	.00122	.0044	.00020
%RSD	1.0843	5.6774	.19234	8.616	.30589
#1	.95937	.01722	.63376	.0538	.06442
#2	.97419	.01589	.63548	.0476	.06414
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-C-13-A@2 Acquired: 8/10/2021 20:59:12 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.04561**	**.05143**	**.0179**
Stddev	.00171	.00013	.00027	.0021
%RSD	336.14	.28226	.52065	11.58
#1	-.00172	.04570	.05124	.0164
#2	.00070	.04552	.05161	.0194
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2945.1**	**2726.5**	**56597.**	**3250.6**
Stddev	1.0	3.0	68.	6.6
%RSD	.03437	.10926	.12066	.20225
#1	2944.3	2728.6	56645.	3255.3
#2	2945.8	2724.4	56548.	3246.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.969%	95.533%	93.794%	104.20%
Range				

Sample Name: 480-187977-B-16-B@2 Acquired: 8/10/2021 21:03:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00083**	**32.903**	**.02607**	**.14270**	**.04696**
Stddev	.00012	.092	.00019	.00062	.00006
%RSD	14.146	.28017	.71037	.43510	.11941
#1	.00075	32.838	.02594	.14314	.04700
#2	.00091	32.969	.02620	.14226	.04692
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00200**	**713.90**	**.00023**	**.2040**	**.02511**
Stddev	.00001	.94	.00011	.0025	.00022
%RSD	.71119	.13163	48.736	1.223	.86000
#1	.00201	714.57	.00015	.2023	.02526
#2	.00199	713.24	.00031	.2058	.02495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03793**	**.03394**	**48.865**	**18.239**	**.07175**
Stddev	.00049	.00036	.023	.078	.00010
%RSD	1.2983	1.0502	.04702	.42796	.14499
#1	.03758	.03369	48.881	18.184	.07168
#2	.03828	.03419	48.849	18.294	.07183
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-B-16-B@2 Acquired: 8/10/2021 21:03:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**205.31**	**1.3030**	**-.00622**	**.84997**	**.05468**
Stddev	.19	.0019	.00023	.00039	.00014
%RSD	.09387	.14732	3.7232	.04537	.25494
#1	205.17	1.3044	-.00638	.84969	.05477
#2	205.44	1.3017	-.00605	.85024	.05458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.08887**	**11.54**	**-.00744**	**-.00597**
Stddev	-----	.00129	.01	.00134	.00147
%RSD	-----	1.4517	.0596	17.946	24.592
#1	z 631.7	.08978	11.53	-.00839	-.00701
#2	z 633.3	.08796	11.54	-.00650	-.00493
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.64375**	**.01547**	**.51201**	**.0453**	**.04173**
Stddev	.01024	.00063	.00023	.0024	.00152
%RSD	1.5913	4.0481	.04503	5.331	3.6361
#1	.65099	.01592	.51185	.0470	.04280
#2	.63650	.01503	.51218	.0436	.04065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-B-16-B@2 Acquired: 8/10/2021 21:03:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00129**	**.04306**	**.04193**	**.0252**
Stddev	.00003	.00020	.00073	.0018
%RSD	2.4047	.46269	1.7316	7.124
#1	-.00131	.04321	.04141	.0239
#2	-.00127	.04292	.04244	.0264
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2866.5**	**2708.4**	**56387.**	**3256.1**
Stddev	3.5	3.4	84.	2.3
%RSD	.12220	.12406	.14886	.06915
#1	2864.0	2706.0	56328.	3254.5
#2	2869.0	2710.8	56447.	3257.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.889%	94.897%	93.448%	104.38%
Range				

Sample Name: 480-187977-B-18-B@2 Acquired: 8/10/2021 21:06:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00070**	**37.453**	**.02177**	**.15218**	**.06275**
Stddev	.00013	.239	.00327	.00048	.00003
%RSD	18.684	.63742	15.019	.31813	.04664
#1	.00079	37.622	.01945	.15253	.06273
#2	.00061	37.284	.02408	.15184	.06277
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00215**	**566.35**	**.00024**	**.1703**	**.02029**
Stddev	.00004	2.25	.00016	.0110	.00002
%RSD	1.6753	.39712	67.172	6.429	.08621
#1	.00212	564.76	.00035	.1781	.02028
#2	.00217	567.94	.00013	.1626	.02030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04124**	**.02978**	**46.926**	**18.315**	**.06434**
Stddev	.00064	.00015	.138	.021	.00001
%RSD	1.5556	.50680	.29414	.11338	.00910
#1	.04078	.02989	47.024	18.330	.06433
#2	.04169	.02967	46.829	18.300	.06434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-B-18-B@2 Acquired: 8/10/2021 21:06:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**165.85**	**1.0923**	**-.00669**	**.67808**	**.04679**
Stddev	.64	.0006	.00028	.00117	.00022
%RSD	.38357	.05810	4.2342	.17250	.46071
#1	165.40	1.0928	-.00649	.67890	.04695
#2	166.30	1.0919	-.00689	.67725	.04664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.06993**	**4.967**	**-.00569**	**-.00572**
Stddev	-----	.00003	.006	.00127	.00287
%RSD	-----	.04751	.1130	22.310	50.085
#1	z 528.8	.06995	4.971	-.00479	-.00370
#2	z 529.7	.06991	4.963	-.00658	-.00775
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5104**	**.01618**	**.38804**	**.0410**	**.05815**
Stddev	.0009	.00016	.00167	.0167	.00061
%RSD	.06036	.95883	.42944	40.72	1.0549
#1	1.5110	.01629	.38922	.0292	.05771
#2	1.5098	.01607	.38686	.0528	.05858
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187977-B-18-B@2 Acquired: 8/10/2021 21:06:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00181**	**.04751**	**.04168**	**.0245**
Stddev	.00063	.00021	.00112	.0005
%RSD	34.828	.43678	2.6990	1.965
#1	-.00226	.04736	.04247	.0241
#2	-.00137	.04766	.04088	.0248
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2936.1**	**2713.4**	**57144.**	**3263.4**
Stddev	5.9	5.1	103.	.4
%RSD	.19944	.18800	.18035	.01275
#1	2932.0	2709.8	57071.	3263.1
#2	2940.3	2717.0	57216.	3263.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.732%	95.073%	94.701%	104.61%
Range				

Sample Name: 480-187946-H-6-A@2 Acquired: 8/10/2021 21:10:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00095**	**39.730**	**.01957**	**.16111**	**.08875**
Stddev	.00013	.025	.00074	.00083	.00011
%RSD	13.657	.06351	3.7931	.51468	.12089
#1	.00086	39.712	.01905	.16170	.08867
#2	.00105	39.748	.02010	.16052	.08882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**593.81**	**.00046**	**.1921**	**.02236**
Stddev	.00003	1.12	.00006	.0241	.00027
%RSD	1.3550	.18827	12.945	12.57	1.2035
#1	.00213	593.02	.00050	.1750	.02217
#2	.00209	594.60	.00042	.2092	.02255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04703**	**.03952**	**51.130**	**19.330**	**.07285**
Stddev	.00012	.00014	.010	.005	.00062
%RSD	.25646	.35415	.01992	.02409	.85052
#1	.04711	.03942	51.123	19.333	.07329
#2	.04694	.03962	51.137	19.327	.07241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187946-H-6-A@2 Acquired: 8/10/2021 21:10:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**137.96**	**1.3988**	**-.00658**	**.83254**	**.05001**
Stddev	.27	.0001	.00016	.00104	.00004
%RSD	.19319	.00665	2.4208	.12535	.08620
#1	138.15	1.3988	-.00647	.83327	.04998
#2	137.77	1.3987	-.00669	.83180	.05004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.06651**	**13.37**	**-.00648**	**-.00603**
Stddev	-----	.00077	.04	.00086	.00113
%RSD	-----	1.1616	.2989	13.243	18.775
#1	z 627.7	.06597	13.40	-.00587	-.00684
#2	z 625.6	.06706	13.35	-.00709	-.00523
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.84604**	**.01700**	**.48566**	**.0532**	**.10193**
Stddev	.03930	.00070	.00055	.0069	.00086
%RSD	4.6450	4.1174	.11314	12.89	.84714
#1	.81825	.01651	.48528	.0483	.10254
#2	.87382	.01750	.48605	.0580	.10132
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187946-H-6-A@2 Acquired: 8/10/2021 21:10:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.05366**	**.08881**	**.0272**
Stddev	.00046	.00042	.00025	.0003
%RSD	118.21	.78295	.28412	1.232
#1	-.00071	.05396	.08863	.0270
#2	-.00006	.05336	.08898	.0275
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2941.8**	**2742.5**	**57291.**	**3294.0**
Stddev	1.2	1.1	122.	3.6
%RSD	.04002	.04187	.21291	.10820
#1	2942.6	2743.3	57378.	3296.6
#2	2941.0	2741.7	57205.	3291.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.882%	96.094%	94.946%	105.59%
Range				

Sample Name: MB 480-592239/1-A Acquired: 8/10/2021 21:14:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.02115**	**-.00092**	**-.00142**	**-.00001**
Stddev	.00069	.01768	.00464	.00003	.00000
%RSD	917.14	83.590	501.71	2.1420	1.6792
#1	.00041	.03366	-.00420	-.00145	-.00001
#2	-.00057	.00865	.00236	-.00140	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.03276**	**-.00014**	**-.0053**	**.00018**
Stddev	.00008	.00159	.00020	.0070	.00002
%RSD	206.08	4.8616	142.03	132.3	12.858
#1	-.00010	.03389	.00000	-.0003	.00019
#2	.00002	.03164	-.00028	-.0102	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00024**	**.01060**	**-.12172**	**-.00045**
Stddev	.00017	.00017	.00065	.00695	.00019
%RSD	122.45	67.925	6.1619	5.7089	42.604
#1	.00026	-.00013	.01014	-.12663	-.00059
#2	.00002	-.00036	.01106	-.11681	-.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592239/1-A Acquired: 8/10/2021 21:14:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00433**	**.00061**	F **-.00766**	**-.00771**	**.00003**
Stddev	.00154	.00003	.00002	.00353	.00004
%RSD	35.481	4.8718	.26045	45.813	129.38
#1	.00541	.00059	-.00768	-.01020	.00006
#2	.00324	.00064	-.00765	-.00521	.00000
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.00500		
Low Limit			-.00500		

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00051**	**.0001**	**-.00051**	**.00168**
Stddev	-----	.00029	.0031	.00209	.00035
%RSD	-----	57.716	2254.	413.01	20.583
#1	z 135.6	.00072	.0023	-.00198	.00144
#2	z 135.4	.00030	-.0020	.00097	.00193
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00183**	**-.00050**	**.00011**	**-.0087**	**-.00037**
Stddev	.00642	.00017	.00002	.0031	.00035
%RSD	351.44	34.940	14.043	34.98	93.683
#1	-.00271	-.00062	.00012	-.0109	-.00062
#2	.00637	-.00037	.00010	-.0066	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592239/1-A Acquired: 8/10/2021 21:14:40 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00087**	**.00008**	F **.01109**	**.0013**
Stddev	.00192	.00018	.00017	.0011
%RSD	219.30	215.90	1.5684	86.80
#1	-.00223	.00021	.01097	.0021
#2	.00048	-.00004	.01121	.0005
Check ?	Chk Pass	Chk Pass	Chk Fail	None
High Limit			.01000	
Low Limit			-.00300	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3818.9**	**2902.9**	**62053.**	**3248.6**
Stddev	6.1	1.9	148.	10.2
%RSD	.15916	.06377	.23791	.31527
#1	3823.2	2904.3	62158.	3241.4
#2	3814.6	2901.6	61949.	3255.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.10%	101.71%	102.84%	104.14%
Range				

Sample Name: LCS 480-592239/2-A Acquired: 8/10/2021 21:18:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04733**	**10.027**	**.20579**	**.20101**	**.22230**
Stddev	.00010	.020	.00124	.00001	.00024
%RSD	.20742	.19590	.60028	.00714	.10611
#1	.04740	10.013	.20667	.20102	.22213
#2	.04726	10.041	.20492	.20100	.22247
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20892**	**10.092**	**.20553**	**.0120**	**.19583**
Stddev	.00046	.010	.00008	.0040	.00059
%RSD	.21933	.09960	.04005	33.60	.30379
#1	.20859	10.085	.20548	.0148	.19625
#2	.20924	10.099	.20559	.0091	.19541
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19873**	**.20050**	**9.6290**	**9.8589**	**.19068**
Stddev	.00048	.00042	.0360	.0088	.00103
%RSD	.24249	.20996	.37404	.08965	.54034
#1	.19839	.20020	9.6035	9.8527	.18995
#2	.19907	.20080	9.6545	9.8652	.19141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592239/2-A Acquired: 8/10/2021 21:18:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6859**	**.20253**	**.20868**	**10.013**	**.19740**
Stddev	.0065	.00031	.00054	.001	.00059
%RSD	.06754	.15181	.26010	.01282	.30052
#1	9.6906	.20231	.20830	10.012	.19782
#2	9.6813	.20275	.20906	10.013	.19698
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20097**	**10.08**	**.22064**	**.19671**
Stddev	-----	.00093	.00	.00357	.00493
%RSD	-----	.46120	.0073	1.6193	2.5054
#1	z 158.1	.20163	10.08	.21811	.20020
#2	z 157.1	.20032	10.09	.22317	.19323
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4575**	**.19499**	**.20327**	**.0185**	**.20391**
Stddev	.0350	.00096	.00034	.0026	.00045
%RSD	.36990	.49454	.16741	13.95	.22068
#1	9.4327	.19431	.20303	.0204	.20359
#2	9.4822	.19567	.20351	.0167	.20423
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592239/2-A Acquired: 8/10/2021 21:18:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20446**	**.20181**	**.21674**	**.0432**
Stddev	.00161	.00028	.00055	.0009
%RSD	.78691	.13695	.25539	2.004
#1	.20332	.20162	.21635	.0438
#2	.20560	.20201	.21713	.0426
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3579.2**	**2838.9**	**60094.**	**3224.0**
Stddev	1.8	1.0	27.	4.4
%RSD	.05161	.03675	.04471	.13660
#1	3577.9	2839.6	60075.	3220.9
#2	3580.5	2838.1	60113.	3227.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.757%	99.470%	99.590%	103.35%
Range				

Sample Name: 480-188019-AK-2-B Acquired: 8/10/2021 21:22:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.03109**	**-.00245**	**.02299**	**.04205**
Stddev	.00013	.00328	.00148	.00092	.00007
%RSD	109.34	10.564	60.362	3.9895	.17367
#1	-.00003	.03341	-.00140	.02364	.04200
#2	-.00021	.02877	-.00350	.02234	.04210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**122.93**	**.00026**	**.0290**	**.00028**
Stddev	.00002	.25	.00002	.0031	.00005
%RSD	34.631	.20030	7.3800	10.84	17.611
#1	-.00007	123.10	.00024	.0312	.00025
#2	-.00005	122.76	.00027	.0268	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00042**	**.00099**	**.00645**	**2.4695**	**.05703**
Stddev	.00005	.00033	.00024	.0152	.00071
%RSD	10.905	33.742	3.7733	.61330	1.2431
#1	.00045	.00076	.00628	2.4588	.05653
#2	.00038	.00123	.00663	2.4802	.05753
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188019-AK-2-B Acquired: 8/10/2021 21:22:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**262.85**	**.00328**	**-.00479**	**46.517**	**.00043**
Stddev	1.88	.00003	.00002	.143	.00026
%RSD	.71539	.89618	.45186	.30710	61.511
#1	264.18	.00330	-.00481	46.618	.00024
#2	261.52	.00326	-.00478	46.416	.00061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00084**	F **255.7**	**-.00231**	**-.00108**
Stddev	-----	.00013	.0	.00270	.00179
%RSD	-----	15.363	.0115	116.68	166.16
#1	z 183.9	.00075	255.7	-.00040	-.00234
#2	z 183.8	.00094	255.7	-.00422	.00019
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.7867**	**-.00091**	**1.7713**	**-.0125**	**.00060**
Stddev	.0521	.00137	.0065	.0057	.00009
%RSD	.66961	149.82	.36754	45.87	14.232
#1	7.8236	.00005	1.7759	-.0165	.00066
#2	7.7498	-.00188	1.7667	-.0084	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188019-AK-2-B Acquired: 8/10/2021 21:22:08 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00091**	**-.00053**	**.02594**	**-.0004**
Stddev	.00081	.00002	.00082	.0018
%RSD	88.970	4.0680	3.1798	438.2
#1	-.00148	-.00054	.02652	.0009
#2	-.00034	-.00051	.02535	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3157.4**	**2618.4**	**55405.**	**3115.3**
Stddev	1.7	1.2	104.	4.0
%RSD	.05284	.04725	.18813	.12977
#1	3158.6	2617.5	55479.	3112.5
#2	3156.2	2619.2	55332.	3118.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.590%	91.744%	91.820%	99.863%
Range				

Sample Name: 480-188049-B-1-A Acquired: 8/10/2021 21:26:01 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02859**	**.04192**	**.07522**	**.03258**
Stddev	.00008	.02319	.00157	.00053	.00000
%RSD	43.052	81.133	3.7457	.70738	.00963
#1	-.00012	.04499	.04303	.07484	.03258
#2	-.00023	.01219	.04081	.07559	.03258
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**131.06**	**.00033**	**-.0005**	**.00017**
Stddev	.00008	.04	.00013	.0204	.00008
%RSD	81.124	.03158	40.447	4135.	46.225
#1	-.00015	131.09	.00043	.0139	.00022
#2	-.00004	131.03	.00024	-.0149	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00453**	**2.7530**	**2.3375**	**.02552**
Stddev	.00007	.00012	.0061	.0238	.00085
%RSD	145.82	2.6066	.22275	1.0176	3.3329
#1	-.00000	.00444	2.7487	2.3543	.02492
#2	.00010	.00461	2.7574	2.3207	.02612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-A Acquired: 8/10/2021 21:26:01 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**55.871**	**.02938**	**.00589**	**13.549**	**.00001**
Stddev	.224	.00006	.00006	.007	.00004
%RSD	.40115	.21404	.96509	.05337	353.65
#1	55.712	.02934	.00585	13.544	.00004
#2	56.029	.02943	.00593	13.554	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00138**	**52.97**	**-.00179**	**-.00513**
Stddev	-----	.00020	.10	.00195	.00136
%RSD	-----	14.776	.1856	109.03	26.574
#1	z 197.6	.00152	53.03	-.00041	-.00609
#2	z 198.1	.00123	52.90	-.00316	-.00417
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.170**	**-.00035**	**.64941**	**-.0008**	**.00037**
Stddev	.022	.00055	.00060	.0208	.00005
%RSD	.22087	158.56	.09192	2458.	13.173
#1	10.154	.00004	.64899	-.0156	.00034
#2	10.185	-.00073	.64983	.0139	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-A Acquired: 8/10/2021 21:26:01 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00060**	**-.00027**	**.00859**	**.0002**
Stddev	.00019	.00016	.00092	.0005
%RSD	31.451	59.226	10.756	292.1
#1	-.00073	-.00016	.00794	.0005
#2	-.00046	-.00038	.00925	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3338.2**	**2692.7**	**57195.**	**3170.3**
Stddev	3.0	4.7	102.	11.6
%RSD	.08860	.17636	.17801	.36607
#1	3336.1	2689.4	57267.	3162.1
#2	3340.3	2696.1	57123.	3178.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.376%	94.350%	94.785%	101.63%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 21:29:48 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95544**	**48.800**	**.98295**	**1.0042**	**.97178**	**.97797**	**49.166**	**.98993**
Stddev	.00061	.034	.00310	.0009	.00140	.00143	.091	.00102
%RSD	.06406	.06953	.31505	.09260	.14412	.14650	.18410	.10278
#1	.95501	48.824	.98514	1.0035	.97277	.97898	49.230	.99065
#2	.95587	48.776	.98076	1.0048	.97078	.97695	49.102	.98921
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9585**	**.97289**	**.98026**	**.98235**	**48.466**	**48.150**	**.92605**	**47.906**
Stddev	.0022	.00090	.00225	.00348	.229	.013	.00065	.148
%RSD	.2297	.09272	.22995	.35456	.47281	.02708	.07069	.30968
#1	.9601	.97225	.97867	.97989	48.628	48.159	.92651	47.801
#2	.9570	.97353	.98185	.98482	48.304	48.141	.92558	48.011
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97111**	**1.0086**	**48.109**	**.97712**	z *****	**.97808**	**24.79**	**.98848**
Stddev	.00218	.0033	.050	.00147	-----	.00100	.04	.00471
%RSD	.22453	.33090	.10315	.15025	-----	.10273	.1658	.47605
#1	.96957	1.0062	48.144	.97608	z 8973.	.97737	24.82	.99180
#2	.97265	1.0109	48.074	.97816	z 8966.	.97879	24.76	.98515
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 21:29:48 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98281	9.6069	.97396	.96713	.9478	.98187	.98780	.98688
Stddev	.00070	.0433	.00008	.00172	.0060	.00128	.00150	.00100
%RSD	.07162	.45102	.00787	.17807	.6352	.13069	.15221	.10100
#1	.98331	9.6375	.97391	.96835	.9521	.98096	.98886	.98618
#2	.98232	9.5763	.97402	.96591	.9436	.98277	.98674	.98759
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99576	.9434
Stddev	.00343	.0002
%RSD	.34453	.0198
#1	.99333	.9436
#2	.99818	.9433
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3273.6	2766.0	57089.	3115.0
Stddev	3.5	1.8	4.	2.7
%RSD	.10755	.06391	.00761	.08748
#1	3276.1	2764.8	57092.	3113.1
#2	3271.1	2767.3	57086.	3117.0

Sample Name: CCB-6597963 Acquired: 8/10/2021 21:33:25 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.01428**	**.00042**	**-.00337**	**.00010**	**-.00002**	**-.00031**	**-.00008**
Stddev	.00045	.01015	.00077	.00011	.00002	.00009	.00153	.00006
%RSD	121.01	71.042	184.64	3.3440	19.413	437.25	500.16	82.572
#1	-.00068	.02146	-.00013	-.00329	.00012	-.00009	-.00139	-.00012
#2	-.00005	.00711	.00096	-.00345	.00009	.00005	.00078	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0152**	**.00015**	**.00020**	**-.00003**	**.00691**	**-.13785**	**-.00130**	**.00607**
Stddev	.0095	.00004	.00008	.00039	.00443	.00417	.00084	.00013
%RSD	62.58	28.906	39.481	1143.3	64.146	3.0255	65.036	2.1930
#1	-.0219	.00018	.00025	-.00031	.01005	-.14080	-.00189	.00617
#2	-.0085	.00012	.00014	.00024	.00378	-.13490	-.00070	.00598
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00004**	**.00082**	**-.00700**	**-.00002**	z *****	**-.00001**	**.0089**	**-.00028**
Stddev	.00002	.00117	.00447	.00006	-----	.00124	.0014	.00022
%RSD	40.473	142.06	63.941	225.17	-----	10090.	15.95	78.701
#1	-.00003	.00165	-.01016	.00001	z 138.2	-.00089	.0079	-.00044
#2	-.00005	-.00000	-.00383	-.00006	z 138.2	.00086	.0099	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 21:33:25 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00492	.00663	.00013	-.00001	.0001	.00008	-.00076	-.00022
Stddev	.00123	.02067	.00041	.00008	.0093	.00000	.00143	.00031
%RSD	24.975	311.83	310.29	570.39	12700.	1.3852	187.59	138.52
#1	.00579	-.00799	-.00016	.00004	.0067	.00008	.00025	-.00044
#2	.00405	.02125	.00042	-.00007	-.0065	.00008	-.00178	-.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00041	.0000
Stddev	.00017	.0019
%RSD	41.410	35940.
#1	.00029	.0014
#2	.00054	-.0014
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3811.6	2876.1	61179.	3186.4
Stddev	3.1	3.9	88.	1.5
%RSD	.08015	.13461	.14427	.04776
#1	3809.5	2873.4	61117.	3187.5
#2	3813.8	2878.9	61241.	3185.3

Sample Name: CCVL-6603764 Acquired: 8/10/2021 21:37:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00524**	**.19808**	**.01509**	**.01612**	**.00213**	**.00192**	**.49283**
Stddev	.00022	.01065	.00189	.00024	.00000	.00010	.00793
%RSD	4.2481	5.3791	12.508	1.4739	.13897	5.0072	1.6088
#1	.00508	.19054	.01642	.01596	.00213	.00186	.48723
#2	.00540	.20561	.01376	.01629	.00213	.00199	.49844
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**-.0063**	**.00393**	**.00384**	**.00961**	**.04776**	W **.30337**
Stddev	.00001	.0181	.00019	.00031	.00026	.00132	.04487
%RSD	.62501	285.8	4.8510	8.0933	2.7353	2.7675	14.792
#1	.00186	-.0191	.00379	.00406	.00979	.04683	.27164
#2	.00187	.0065	.00406	.00362	.00942	.04870	.33510
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02594**	**.19247**	**.00310**	F **.00467**	**.96695**	**.00945**	z *****
Stddev	.00028	.00146	.00005	.00014	.00342	.00002	-----
%RSD	1.0706	.75842	1.6552	2.9547	.35364	.25742	-----
#1	.02613	.19144	.00313	.00476	.96453	.00947	z 138.1
#2	.02574	.19351	.00306	.00457	.96936	.00943	z 137.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 21:37:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00999**	**.1975**	**.01797**	**.02518**	**.46775**	**.00867**	**.00472**
Stddev	.00005	.0014	.00058	.00116	.00119	.00015	.00005
%RSD	.48822	.7337	3.2051	4.5876	.25413	1.7501	1.0503
#1	.01002	.1964	.01757	.02600	.46859	.00856	.00475
#2	.00995	.1985	.01838	.02436	.46691	.00877	.00468
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.00453**	**.01791**	**.00476**	**.00972**	**.0010**
Stddev	.0015	.00021	.00203	.00007	.00026	.0017
%RSD	392.1	4.6306	11.353	1.5680	2.7156	177.7
#1	-.0007	.00438	.01935	.00471	.00991	-.0002
#2	.0014	.00468	.01648	.00481	.00953	.0022
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3793.5**	**2887.5**	**61668.**	**3204.9**
Stddev	4.2	1.8	154.	21.6
%RSD	.11103	.06087	.25002	.67508
#1	3796.4	2888.7	61777.	3220.2
#2	3790.5	2886.3	61559.	3189.6

Sample Name: 480-188049-B-1-ASD@5 Acquired: 8/10/2021 21:41:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**.03013**	**.00881**	**.01191**	**.00654**
Stddev	.00050	.00382	.00005	.00019	.00001
%RSD	1460.1	12.669	.57911	1.5615	.07927
#1	-.00039	.03283	.00885	.01178	.00654
#2	.00032	.02743	.00877	.01204	.00655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**26.450**	**.00005**	**.0196**	**.00015**
Stddev	.00005	.043	.00003	.0007	.00001
%RSD	54.765	.16134	65.853	3.600	7.5612
#1	-.00006	26.420	.00003	.0191	.00014
#2	-.00013	26.480	.00007	.0201	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00098**	**.56051**	**.30919**	**.00411**
Stddev	.00011	.00025	.00693	.01630	.00015
%RSD	1195.3	25.586	1.2356	5.2711	3.6710
#1	-.00007	.00080	.56540	.29767	.00422
#2	.00009	.00115	.55561	.32072	.00400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-ASD@5 Acquired: 8/10/2021 21:41:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.981**	**.00586**	**-.00428**	**2.6788**	**-.00002**
Stddev	.012	.00004	.00007	.0036	.00009
%RSD	.10708	.64916	1.7105	.13311	492.91
#1	10.989	.00588	-.00423	2.6762	-.00008
#2	10.972	.00583	-.00433	2.6813	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00053**	**10.10**	**-.00182**	**-.00245**
Stddev	-----	.00033	.00	.00013	.00050
%RSD	-----	60.964	.0023	7.1894	20.523
#1	z 156.9	.00077	10.10	-.00191	-.00280
#2	z 157.1	.00030	10.10	-.00172	-.00209
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.0427**	**-.00034**	**.13046**	**.0021**	**-.00016**
Stddev	.0136	.00004	.00044	.0083	.00008
%RSD	.66489	12.889	.33426	400.4	49.387
#1	2.0331	-.00037	.13015	-.0038	-.00010
#2	2.0523	-.00031	.13077	.0079	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-ASD@5 Acquired: 8/10/2021 21:41:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00117**	**-.00025**	**.00200**	**.0006**
Stddev	.00071	.00023	.00072	.0013
%RSD	60.185	92.052	36.042	217.5
#1	-.00167	-.00041	.00250	-.0003
#2	-.00067	-.00009	.00149	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3635.5**	**2814.1**	**59900.**	**3178.8**
Stddev	4.4	3.9	224.	1.8
%RSD	.12204	.13717	.37451	.05787
#1	3632.3	2811.4	59741.	3177.5
#2	3638.6	2816.8	60059.	3180.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.246%	98.602%	99.269%	101.90%
Range				

Sample Name: 480-188049-B-1-APDS Acquired: 8/10/2021 21:44:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04950**	**10.019**	**.25693**	**.28104**	**.24909**
Stddev	.00050	.009	.00055	.00080	.00010
%RSD	1.0144	.08711	.21434	.28367	.04159
#1	.04985	10.012	.25732	.28160	.24916
#2	.04914	10.025	.25654	.28047	.24901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20869**	**137.74**	**.21275**	**-.0108**	**.19851**
Stddev	.00051	.25	.00032	.0089	.00015
%RSD	.24416	.17965	.14809	82.56	.07492
#1	.20833	137.57	.21297	-.0045	.19862
#2	.20905	137.92	.21253	-.0171	.19841
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20016**	**.20907**	**12.272**	**12.454**	**.22160**
Stddev	.00101	.00061	.055	.006	.00146
%RSD	.50690	.29366	.45021	.04680	.65832
#1	.20088	.20951	12.233	12.459	.22057
#2	.19945	.20864	12.311	12.450	.22263
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-APDS Acquired: 8/10/2021 21:44:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.634**	**.22944**	**.22468**	**23.214**	**.20031**
Stddev	.136	.00037	.00040	.046	.00031
%RSD	.21067	.16156	.17882	.20012	.15492
#1	64.730	.22970	.22439	23.181	.20053
#2	64.538	.22918	.22496	23.247	.20009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20452**	**61.48**	**.22492**	**.19832**
Stddev	-----	.00240	.08	.00147	.00058
%RSD	-----	1.1752	.1247	.65269	.29226
#1	z 209.1	.20622	61.53	.22388	.19791
#2	z 209.9	.20282	61.42	.22596	.19873
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.585**	**.19900**	**.83348**	**.0302**	**.20686**
Stddev	.049	.00026	.00223	.0102	.00001
%RSD	.25062	.13235	.26805	33.63	.00507
#1	19.550	.19918	.83190	.0374	.20687
#2	19.620	.19881	.83506	.0230	.20685
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-APDS Acquired: 8/10/2021 21:44:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20484**	**.20378**	**.20836**	**.0428**
Stddev	.00028	.00031	.00030	.0023
%RSD	.13618	.14970	.14598	5.456
#1	.20504	.20356	.20815	.0444
#2	.20465	.20399	.20858	.0411
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3270.9**	**2689.5**	**56890.**	**3141.6**
Stddev	1.7	2.2	50.	13.8
%RSD	.05050	.08279	.08785	.43835
#1	3269.7	2687.9	56925.	3131.9
#2	3272.0	2691.1	56854.	3151.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.594%	94.236%	94.280%	100.71%
Range				

Sample Name: 480-188049-B-1-B MS Acquired: 8/10/2021 21:48:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04793**	**10.066**	**.25804**	**.28391**	**.25056**
Stddev	.00011	.035	.00017	.00018	.00001
%RSD	.22948	.35033	.06681	.06441	.00510
#1	.04801	10.091	.25792	.28378	.25057
#2	.04785	10.041	.25817	.28404	.25055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20723**	**138.41**	**.21116**	**.0119**	**.19770**
Stddev	.00117	.40	.00008	.0002	.00017
%RSD	.56267	.28775	.03631	1.757	.08844
#1	.20806	138.69	.21121	.0120	.19782
#2	.20641	138.13	.21110	.0117	.19758
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19668**	**.20438**	**12.005**	**12.494**	**.21646**
Stddev	.00045	.00003	.022	.025	.00115
%RSD	.22912	.01344	.18506	.19945	.53031
#1	.19700	.20440	11.989	12.476	.21565
#2	.19636	.20436	12.021	12.511	.21728
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-B MS Acquired: 8/10/2021 21:48:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.348**	**.22506**	**.22554**	**23.248**	**.19895**
Stddev	.221	.00027	.00009	.015	.00039
%RSD	.34349	.11963	.03891	.06522	.19594
#1	64.505	.22525	.22548	23.258	.19922
#2	64.192	.22487	.22560	23.237	.19867
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20473**	**62.58**	**.22367**	**.20471**
Stddev	-----	.00031	.04	.00025	.00465
%RSD	-----	.15026	.0693	.11269	2.2720
#1	z 210.5	.20451	62.61	.22385	.20142
#2	z 210.7	.20494	62.55	.22349	.20800
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.321**	**.20104**	**.83980**	**.0214**	**.20635**
Stddev	.094	.00166	.00049	.0017	.00039
%RSD	.48704	.82356	.05778	8.082	.18933
#1	19.254	.20221	.84015	.0226	.20663
#2	19.387	.19987	.83946	.0202	.20608
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-B MS Acquired: 8/10/2021 21:48:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20335**	**.20249**	**.20756**	**.0217**
Stddev	.00025	.00100	.00005	.0006
%RSD	.12478	.49522	.02296	2.882
#1	.20317	.20320	.20760	.0222
#2	.20353	.20179	.20753	.0213
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3269.6**	**2695.5**	**57362.**	**3191.3**
Stddev	1.8	.4	207.	5.9
%RSD	.05400	.01389	.36035	.18380
#1	3270.9	2695.7	57216.	3195.4
#2	3268.4	2695.2	57508.	3187.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.562%	94.445%	95.063%	102.30%
Range				

Sample Name: 480-188049-B-1-C MSD Acquired: 8/10/2021 21:52:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04873**	**10.106**	**.25054**	**.27962**	**.24926**
Stddev	.00002	.014	.00075	.00045	.00012
%RSD	.04437	.14241	.29809	.16241	.04775
#1	.04874	10.096	.25107	.27994	.24918
#2	.04871	10.116	.25001	.27930	.24934
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20591**	**136.96**	**.20811**	**.0145**	**.19550**
Stddev	.00050	.30	.00031	.0072	.00007
%RSD	.24041	.21719	.14718	49.41	.03423
#1	.20556	136.75	.20789	.0196	.19545
#2	.20626	137.17	.20832	.0095	.19554
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19676**	**.20237**	**12.138**	**12.425**	**.22102**
Stddev	.00076	.00020	.049	.003	.00055
%RSD	.38580	.09689	.39995	.02301	.24744
#1	.19729	.20251	12.103	12.423	.22063
#2	.19622	.20223	12.172	12.427	.22141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-C MSD Acquired: 8/10/2021 21:52:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**64.430**	**.22615**	**.22241**	**23.243**	**.19613**
Stddev	.278	.00040	.00065	.008	.00018
%RSD	.43081	.17492	.29200	.03358	.09039
#1	64.626	.22643	.22195	23.249	.19626
#2	64.233	.22587	.22287	23.238	.19601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20087**	**61.27**	**.22278**	**.19819**
Stddev	-----	.00065	.00	.00072	.00058
%RSD	-----	.32235	.0019	.32384	.29292
#1	z 210.0	.20041	61.27	.22329	.19778
#2	z 209.7	.20132	61.27	.22227	.19860
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**19.672**	**.19800**	**.83580**	**.0144**	**.20313**
Stddev	.024	.00112	.00114	.0089	.00003
%RSD	.12067	.56390	.13586	62.23	.01241
#1	19.655	.19721	.83500	.0080	.20314
#2	19.689	.19879	.83661	.0207	.20311
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-1-C MSD Acquired: 8/10/2021 21:52:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20117**	**.20025**	**.20175**	**.0168**
Stddev	.00094	.00047	.00136	.0021
%RSD	.46555	.23413	.67244	12.62
#1	.20184	.20058	.20271	.0153
#2	.20051	.19991	.20079	.0182
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3279.7**	**2700.9**	**56967.**	**3141.6**
Stddev	.1	1.7	145.	10.4
%RSD	.00295	.06297	.25395	.33201
#1	3279.6	2702.1	56865.	3149.0
#2	3279.8	2699.7	57070.	3134.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.828%	94.637%	94.409%	100.71%
Range				

Sample Name: 480-188049-B-2-A Acquired: 8/10/2021 21:55:49 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.01985**	**.02417**	**.03443**	**.11313**
Stddev	.00004	.00319	.00083	.00032	.00000
%RSD	28.305	16.055	3.4366	.94379	.00137
#1	-.00018	.02210	.02358	.03466	.11313
#2	-.00012	.01759	.02476	.03420	.11313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**109.18**	**.00029**	**-.0015**	**-.00012**
Stddev	.00005	.01	.00009	.0056	.00013
%RSD	362.30	.00633	32.744	366.7	108.83
#1	-.00005	109.18	.00022	-.0055	-.00021
#2	.00002	109.19	.00035	.0024	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00001**	**1.9861**	**1.5468**	**.00965**
Stddev	.00024	.00044	.0109	.0104	.00141
%RSD	4690.3	3483.4	.54791	.67328	14.636
#1	.00017	.00032	1.9785	1.5395	.00865
#2	-.00016	-.00030	1.9938	1.5542	.01065
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-2-A Acquired: 8/10/2021 21:55:49 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.200**	**.02804**	**.00409**	**8.2692**	**-.00003**
Stddev	.005	.00003	.00005	.0022	.00005
%RSD	.01262	.11608	1.2679	.02660	169.31
#1	41.204	.02806	.00405	8.2676	.00001
#2	41.196	.02801	.00412	8.2707	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00069**	**33.28**	**-.00054**	**-.00275**
Stddev	-----	.00005	.06	.00054	.00341
%RSD	-----	6.5333	.1676	100.90	124.02
#1	z 167.9	.00072	33.32	-.00092	-.00516
#2	z 168.5	.00066	33.24	-.00015	-.00034
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5366**	**-.00032**	**.46405**	**.0020**	**.00038**
Stddev	.0429	.00087	.00009	.0055	.00019
%RSD	.50234	270.45	.01931	283.2	51.357
#1	8.5669	.00029	.46398	-.0020	.00024
#2	8.5063	-.00094	.46411	.0059	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-2-A Acquired: 8/10/2021 21:55:49 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00101**	**-.00025**	**.00608**	**-.0013**
Stddev	.00022	.00002	.00069	.0003
%RSD	21.237	8.6058	11.300	26.29
#1	.00117	-.00023	.00559	-.0015
#2	.00086	-.00026	.00657	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3402.4**	**2722.2**	**57970.**	**3191.3**
Stddev	3.0	2.1	108.	6.2
%RSD	.08920	.07816	.18688	.19307
#1	3400.3	2720.7	58047.	3186.9
#2	3404.5	2723.7	57894.	3195.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.076%	95.381%	96.071%	102.30%
Range				

Sample Name: 480-188049-B-3-A Acquired: 8/10/2021 21:59:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00062**	**.03121**	**.00308**	**.03685**	**.43609**
Stddev	.00005	.01185	.00083	.00009	.00575
%RSD	8.1421	37.984	26.848	.24861	1.3191
#1	-.00058	.03959	.00250	.03692	.43203
#2	-.00066	.02283	.00367	.03679	.44016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**237.66**	**.00044**	**.0110**	**-.00016**
Stddev	.00001	.62	.00001	.0096	.00026
%RSD	11.055	.25959	1.8072	87.06	161.44
#1	-.00010	238.10	.00044	.0178	-.00034
#2	-.00012	237.23	.00045	.0042	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00057**	**7.4393**	**7.7692**	**.01615**
Stddev	.00012	.00014	.0050	.0475	.00114
%RSD	171.51	24.236	.06696	.61157	7.0573
#1	.00015	.00047	7.4357	7.8028	.01534
#2	-.00001	.00067	7.4428	7.7356	.01695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-3-A Acquired: 8/10/2021 21:59:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.549**	**.09636**	**-.00266**	**208.79**	**-.00017**
Stddev	.075	.00002	.00012	.66	.00014
%RSD	.13329	.02519	4.5594	.31742	80.414
#1	56.496	.09634	-.00258	209.26	-.00027
#2	56.602	.09638	-.00275	208.32	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00012**	**39.26**	**-.00266**	**-.00845**
Stddev	-----	.00099	.01	.00014	.00346
%RSD	-----	859.80	.0306	5.0920	40.925
#1	z 184.5	.00059	39.26	-.00276	-.00600
#2	z 184.9	-.00082	39.25	-.00257	-.01089
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.376**	**-.00030**	**.42295**	**.0043**	**.00116**
Stddev	.050	.00003	.00100	.0012	.00018
%RSD	.48376	10.382	.23716	29.17	15.112
#1	10.341	-.00033	.42366	.0051	.00129
#2	10.412	-.00028	.42224	.0034	.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-3-A Acquired: 8/10/2021 21:59:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00005**	**-.00034**	**.04326**	**.0006**
Stddev	.00026	.00011	.00123	.0013
%RSD	538.38	31.645	2.8432	201.6
#1	-.00023	-.00027	.04412	-.0003
#2	.00013	-.00042	.04239	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3089.5**	**2592.8**	**54369.**	**3119.8**
Stddev	2.8	2.6	99.	4.9
%RSD	.09077	.10144	.18247	.15800
#1	3091.5	2594.6	54439.	3116.3
#2	3087.5	2590.9	54299.	3123.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.792%	90.847%	90.103%	100.01%
Range				

Sample Name: 480-188049-B-4-B Acquired: 8/10/2021 22:03:34 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.01611**	**.00086**	**.08044**	**.18400**
Stddev	.00021	.00748	.00077	.00011	.00010
%RSD	220.68	46.435	89.805	.13927	.05334
#1	.00024	.02139	.00140	.08036	.18406
#2	-.00005	.01082	.00031	.08052	.18393
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**193.44**	**.00036**	**.0387**	**.00070**
Stddev	.00001	1.05	.00014	.0227	.00001
%RSD	11.300	.54186	38.603	58.50	1.3687
#1	-.00005	192.69	.00026	.0548	.00071
#2	-.00006	194.18	.00046	.0227	.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.00094**	**1.0723**	**5.0167**	**.01771**
Stddev	.00017	.00025	.0023	.0071	.00199
%RSD	57.976	26.689	.21848	.14241	11.260
#1	.00018	.00076	1.0706	5.0217	.01912
#2	.00042	.00112	1.0739	5.0116	.01630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-4-B Acquired: 8/10/2021 22:03:34 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**43.717**	**.07474**	**-.00276**	**76.933**	**.00135**
Stddev	.113	.00008	.00002	.207	.00043
%RSD	.25783	.11160	.63852	.26918	31.683
#1	43.637	.07468	-.00277	76.787	.00105
#2	43.797	.07480	-.00275	77.079	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00107**	**26.79**	**-.00303**	**-.00448**
Stddev	-----	.00003	.06	.00016	.00340
%RSD	-----	2.5922	.2212	5.1737	75.911
#1	z 179.0	.00109	26.83	-.00292	-.00688
#2	z 179.3	.00105	26.75	-.00314	-.00207
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2629**	**-.00029**	**7.1770**	**-.0008**	**.00058**
Stddev	.0172	.00047	.0213	.0013	.00001
%RSD	.20764	163.10	.29714	168.7	1.6710
#1	8.2508	-.00062	7.1619	-.0017	.00057
#2	8.2751	.00004	7.1921	.0001	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-4-B Acquired: 8/10/2021 22:03:34 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00135**	**.00016**	**.03958**	**-.0003**
Stddev	.00127	.00016	.00044	.0010
%RSD	93.735	102.30	1.1003	366.7
#1	-.00046	.00028	.03927	.0004
#2	-.00225	.00004	.03989	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3212.2**	**2645.8**	**55976.**	**3149.3**
Stddev	2.4	.8	105.	5.2
%RSD	.07362	.03076	.18803	.16495
#1	3210.6	2646.4	56050.	3152.9
#2	3213.9	2645.2	55902.	3145.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.042%	92.704%	92.766%	100.95%
Range				

Sample Name: 480-188049-B-5-A Acquired: 8/10/2021 22:07:27 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.01998**	**-.00075**	**.02181**	**.14562**
Stddev	.00009	.00517	.00116	.00067	.00001
%RSD	61.033	25.901	154.88	3.0937	.00789
#1	-.00022	.01632	.00007	.02133	.14562
#2	-.00009	.02364	-.00156	.02229	.14561
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**202.84**	**.00028**	**.0030**	**.00143**
Stddev	.00000	.60	.00005	.0016	.00026
%RSD	3.4837	.29657	18.702	53.10	17.832
#1	-.00003	202.41	.00031	.0018	.00161
#2	-.00003	203.26	.00024	.0041	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00249**	**.00149**	**.11220**	**1.8427**	**.00609**
Stddev	.00011	.00018	.00032	.0125	.00028
%RSD	4.3200	12.129	.28438	.67647	4.6658
#1	.00257	.00136	.11197	1.8339	.00629
#2	.00242	.00161	.11243	1.8515	.00589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-5-A Acquired: 8/10/2021 22:07:27 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**45.213**	**.02094**	**-.00331**	**325.67**	**.09670**
Stddev	.004	.00007	.00029	1.46	.00009
%RSD	.00940	.33596	8.9248	.44737	.09707
#1	45.210	.02089	-.00310	324.64	.09677
#2	45.216	.02099	-.00351	326.70	.09664
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00036**	**8.402**	**-.00194**	**-.00926**
Stddev	-----	.00013	.021	.00208	.00091
%RSD	-----	35.400	.2436	107.16	9.8239
#1	z 178.4	-.00046	8.416	-.00340	-.00862
#2	z 179.0	-.00027	8.387	-.00047	-.00991
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9988**	**-.00030**	**.25784**	**.0025**	**.00071**
Stddev	.0372	.00036	.00116	.0078	.00023
%RSD	.74506	120.00	.44857	309.7	32.285
#1	4.9725	-.00005	.25703	.0081	.00054
#2	5.0252	-.00056	.25866	-.0030	.00087
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-5-A Acquired: 8/10/2021 22:07:27 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00066**	**.00012**	**.03789**	**-.0001**
Stddev	.00097	.00013	.00006	.0003
%RSD	148.62	115.91	.16930	374.0
#1	-.00135	.00021	.03794	-.0003
#2	.00003	.00002	.03785	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3048.7**	**2583.6**	**53973.**	**3102.6**
Stddev	2.8	5.7	80.	8.2
%RSD	.09080	.22049	.14909	.26395
#1	3046.7	2579.5	53916.	3108.4
#2	3050.6	2587.6	54030.	3096.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.712%	90.524%	89.447%	99.455%
Range				

Sample Name: 480-188049-B-6-A Acquired: 8/10/2021 22:11:19 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00023**	**.03892**	**.00179**	**.02986**	**.08756**
Stddev	.00020	.00594	.00175	.00034	.00006
%RSD	90.633	15.271	97.764	1.1286	.06325
#1	-.00008	.03472	.00055	.02962	.08752
#2	-.00037	.04312	.00302	.03010	.08760
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**231.02**	**.00034**	**.0352**	**.00008**
Stddev	.00011	.35	.00002	.0043	.00003
%RSD	779.99	.15331	5.0488	12.35	36.880
#1	.00006	231.28	.00035	.0383	.00011
#2	-.00009	230.77	.00033	.0321	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00142**	**.00609**	**3.7437**	**.01208**
Stddev	.00008	.00037	.00090	.0262	.00064
%RSD	21.308	25.677	14.711	.70025	5.2968
#1	.00042	.00168	.00546	3.7622	.01253
#2	.00031	.00116	.00673	3.7251	.01163
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-6-A Acquired: 8/10/2021 22:11:19 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.428**	**.02511**	**-.00193**	**501.45**	**.00435**
Stddev	.086	.00010	.00012	.06	.00007
%RSD	.17797	.40566	6.1492	.01148	1.7110
#1	48.367	.02504	-.00202	501.41	.00440
#2	48.489	.02518	-.00185	501.49	.00430
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00004**	**75.16**	**-.00259**	**-.00707**
Stddev	-----	.00073	.01	.00128	.00127
%RSD	-----	1752.4	.0112	49.641	17.920
#1	z 181.9	-.00056	75.16	-.00168	-.00618
#2	z 181.5	.00048	75.15	-.00349	-.00797
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8596**	**-.00003**	**.38088**	**-.0003**	**.00094**
Stddev	.0174	.00025	.00004	.0141	.00041
%RSD	.35813	906.52	.01028	5428.	43.733
#1	4.8719	-.00021	.38091	-.0102	.00065
#2	4.8473	.00015	.38085	.0097	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-6-A Acquired: 8/10/2021 22:11:19 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00009**	**-.00018**	**.02897**	**-.0011**
Stddev	.00191	.00034	.00070	.0001
%RSD	2140.6	192.83	2.4072	13.42
#1	-.00126	-.00042	.02848	-.0012
#2	.00144	.00007	.02947	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2962.1**	**2540.4**	**52890.**	**3096.8**
Stddev	.8	2.0	61.	1.9
%RSD	.02676	.07738	.11582	.06232
#1	2962.6	2541.8	52846.	3098.1
#2	2961.5	2539.0	52933.	3095.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.419%	89.010%	87.651%	99.268%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 22:15:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95905**	**48.925**	**.98108**	**1.0022**	**.96756**	**.97715**	**49.253**	**.99020**
Stddev	.00087	.116	.00064	.0004	.00366	.00221	.091	.00009
%RSD	.09058	.23747	.06535	.04405	.37830	.22656	.18430	.00887
#1	.95967	49.007	.98063	1.0019	.97015	.97872	49.318	.99013
#2	.95844	48.843	.98153	1.0025	.96497	.97558	49.189	.99026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9824**	**.97240**	**.98358**	**.98152**	**48.309**	**48.011**	**.92883**	**48.026**
Stddev	.0094	.00014	.00172	.00000	.264	.066	.00430	.173
%RSD	.9608	.01397	.17481	.00025	.54562	.13818	.46309	.36023
#1	.9891	.97230	.98236	.98152	48.496	48.058	.93187	47.904
#2	.9757	.97250	.98479	.98152	48.123	47.964	.92579	48.148
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97146**	**1.0054**	**47.884**	**.97811**	z *****	**.97593**	**24.76**	**.98711**
Stddev	.00191	.0065	.089	.00084	-----	.00204	.00	.00278
%RSD	.19706	.64177	.18558	.08619	-----	.20944	.0142	.28148
#1	.97011	1.0008	47.946	.97752	z 8980.	.97448	24.77	.98514
#2	.97282	1.0100	47.821	.97871	z 8969.	.97737	24.76	.98907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 22:15:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98211	9.7117	.97629	.96749	.9653	.98238	.98396	.98660
Stddev	.00349	.0475	.00152	.00186	.0072	.00265	.00146	.00065
%RSD	.35495	.48949	.15529	.19232	.7493	.26975	.14872	.06612
#1	.97964	9.6781	.97522	.96880	.9704	.98051	.98292	.98706
#2	.98457	9.7453	.97736	.96617	.9602	.98426	.98499	.98614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99821	.9235
Stddev	.00004	.0032
%RSD	.00401	.3494
#1	.99818	.9213
#2	.99823	.9258
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3277.1	2771.8	57285.	3128.8
Stddev	3.3	2.9	206.	9.0
%RSD	.10168	.10461	.35899	.28914
#1	3279.5	2773.8	57430.	3122.4
#2	3274.8	2769.7	57140.	3135.2

Sample Name: CCB-6597963 Acquired: 8/10/2021 22:18:51 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00853**	**.00142**	**-.00308**	**.00008**	**-.00005**	**.00262**	**-.00009**
Stddev	.00020	.00637	.00297	.00018	.00001	.00001	.00299	.00003
%RSD	55.425	74.606	209.22	5.6926	10.064	21.352	114.35	37.534
#1	.00049	.00403	-.00068	-.00295	.00008	-.00004	.00050	-.00007
#2	.00022	.01304	.00353	-.00320	.00009	-.00005	.00474	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0120**	**.00005**	**.00019**	**-.00005**	**.00385**	**-.12168**	**-.00108**	**.00279**
Stddev	.0077	.00007	.00036	.00042	.00187	.02612	.00074	.00036
%RSD	64.02	123.61	184.95	793.59	48.632	21.463	68.336	12.724
#1	.0066	.00010	.00044	-.00035	.00253	-.14015	-.00160	.00254
#2	.0174	.00001	-.00006	.00024	.00518	-.10321	-.00056	.00304
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00000**	**.00080**	**.02042**	**-.00004**	z *****	**.00020**	**.0048**	**-.00102**
Stddev	.00002	.00148	.00435	.00021	-----	.00057	.0048	.00051
%RSD	597.56	184.87	21.291	591.07	-----	283.93	98.47	49.802
#1	-.00002	.00185	.01734	.00011	z 138.1	-.00020	.0082	-.00066
#2	.00001	-.00025	.02349	-.00018	z 138.5	.00060	.0015	-.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 22:18:51 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00409	.00580	.00016	.00002	.0061	.00005	-.00034	-.00013
Stddev	.00086	.01293	.00047	.00003	.0064	.00003	.00003	.00004
%RSD	20.983	222.73	283.78	144.97	104.0	61.313	8.1118	31.074
#1	.00349	-.00334	.00049	.00004	.0106	.00003	-.00036	-.00010
#2	.00470	.01495	-.00017	-.00000	.0016	.00007	-.00032	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00095	.0001
Stddev	.00072	.0004
%RSD	76.295	400.9
#1	.00044	.0004
#2	.00146	-.0002
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3826.2	2883.5	61208.	3165.2
Stddev	1.0	.0	43.	7.9
%RSD	.02523	.00107	.07041	.25057
#1	3826.9	2883.5	61177.	3159.5
#2	3825.5	2883.4	61238.	3170.8

Sample Name: CCVL-6603764 Acquired: 8/10/2021 22:22:41 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00527**	**.19914**	**.01603**	**.01578**	**.00212**	**.00187**	**.48930**
Stddev	.00052	.01031	.00083	.00056	.00002	.00001	.00165
%RSD	9.7849	5.1779	5.1545	3.5598	1.0068	.31311	.33823
#1	.00491	.19185	.01545	.01618	.00213	.00186	.48813
#2	.00564	.20643	.01662	.01538	.00210	.00187	.49047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**.0008**	**.00396**	**.00387**	**.00966**	**.04560**	W **.33319**
Stddev	.00005	.0120	.00003	.00005	.00026	.00065	.02698
%RSD	2.5739	1517.	.86717	1.1766	2.6636	1.4251	8.0976
#1	.00189	-.0077	.00399	.00390	.00948	.04514	.31411
#2	.00182	.0093	.00394	.00384	.00984	.04606	.35226
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02615**	**.19269**	**.00311**	F **.00449**	**.97782**	**.00947**	z *****
Stddev	.00086	.00022	.00001	.00013	.00566	.00019	-----
%RSD	3.2769	.11606	.25786	2.8522	.57919	1.9650	-----
#1	.02676	.19253	.00311	.00458	.98182	.00960	z 137.6
#2	.02554	.19285	.00310	.00440	.97381	.00933	z 137.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 22:22:41 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00955**	**.1930**	**.01958**	**.02387**	**.44930**	**.00872**	**.00479**
Stddev	.00002	.0041	.00063	.00153	.01409	.00024	.00002
%RSD	.17522	2.119	3.1964	6.4142	3.1368	2.7003	.32342
#1	.00954	.1959	.02002	.02279	.43933	.00889	.00478
#2	.00956	.1901	.01913	.02495	.45927	.00856	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0033**	**.00447**	**.01849**	**.00472**	**.00947**	**-.0001**
Stddev	.0005	.00024	.00010	.00003	.00002	.0009
%RSD	14.86	5.4745	.52050	.62952	.18092	764.9
#1	.0036	.00464	.01842	.00474	.00948	-.0008
#2	.0029	.00429	.01855	.00470	.00946	.0005
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3804.8**	**2889.8**	**61693.**	**3214.6**
Stddev	4.6	.5	36.	4.2
%RSD	.12141	.01880	.05787	.13203
#1	3808.1	2889.4	61668.	3211.6
#2	3801.5	2890.2	61718.	3217.6

Sample Name: 480-188049-B-7-A Acquired: 8/10/2021 22:26:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**.03721**	**-.00015**	**.02352**	**.13743**
Stddev	.00007	.00434	.00008	.00042	.00019
%RSD	67.864	11.663	48.940	1.7745	.13937
#1	-.00015	.03414	-.00021	.02381	.13757
#2	-.00005	.04028	-.00010	.02322	.13730
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**146.28**	**.00013**	**.0142**	**-.00011**
Stddev	.00004	.06	.00000	.0055	.00027
%RSD	48.301	.04035	2.1363	38.91	238.09
#1	-.00005	146.24	.00013	.0180	-.00031
#2	-.00010	146.32	.00012	.0103	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00075**	**2.3128**	**1.9238**	**.00580**
Stddev	.00016	.00029	.0158	.0027	.00130
%RSD	101.49	38.753	.68331	.13904	22.487
#1	.00028	.00096	2.3239	1.9219	.00672
#2	.00005	.00055	2.3016	1.9257	.00487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-7-A Acquired: 8/10/2021 22:26:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.860**	**.06462**	**.00071**	**23.387**	**-.00044**
Stddev	.064	.00014	.00009	.003	.00020
%RSD	.17834	.21477	12.000	.01074	45.161
#1	35.905	.06472	.00077	23.389	-.00030
#2	35.814	.06452	.00065	23.385	-.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00026**	**49.56**	**-.00221**	**-.00372**
Stddev	-----	.00102	.06	.00142	.00220
%RSD	-----	389.43	.1113	63.986	59.233
#1	z 171.6	.00046	49.52	-.00321	-.00528
#2	z 171.1	-.00099	49.60	-.00121	-.00216
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8577**	**-.00092**	**.19789**	**.0032**	**.00079**
Stddev	.0077	.00061	.00044	.0133	.00004
%RSD	.11164	66.207	.22153	419.8	5.4759
#1	6.8631	-.00135	.19820	-.0062	.00076
#2	6.8523	-.00049	.19758	.0126	.00082
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-7-A Acquired: 8/10/2021 22:26:32 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00005**	**-.00012**	**.00819**	**.0006**
Stddev	.00088	.00011	.00015	.0008
%RSD	1677.0	88.820	1.7894	121.5
#1	.00068	-.00020	.00830	.0001
#2	-.00057	-.00005	.00809	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3345.8**	**2695.0**	**56995.**	**3157.0**
Stddev	1.3	5.4	89.	5.1
%RSD	.03984	.20036	.15603	.16156
#1	3346.7	2698.8	57058.	3160.6
#2	3344.8	2691.2	56932.	3153.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.577%	94.429%	94.455%	101.20%
Range				

Sample Name: 480-188049-B-8-A Acquired: 8/10/2021 22:30:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00051**	**.03707**	**-.00072**	**.05693**	**.08027**
Stddev	.00052	.01321	.00054	.00047	.00009
%RSD	101.85	35.627	75.102	.83157	.10879
#1	-.00088	.04641	-.00110	.05660	.08021
#2	-.00014	.02773	-.00034	.05727	.08034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**156.42**	**.00027**	**.0111**	**.00009**
Stddev	.00003	.31	.00005	.0101	.00004
%RSD	24.344	.20081	18.311	90.89	44.636
#1	-.00013	156.65	.00023	.0183	.00006
#2	-.00009	156.20	.00030	.0040	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00024**	**.00114**	**2.2070**	**3.2968**	**.00982**
Stddev	.00013	.00009	.0267	.0062	.00009
%RSD	53.342	7.7334	1.2090	.18892	.96238
#1	.00015	.00107	2.2258	3.2924	.00988
#2	.00033	.00120	2.1881	3.3012	.00975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-8-A Acquired: 8/10/2021 22:30:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.536**	**.10594**	**-.00111**	**52.674**	**-.00020**
Stddev	.002	.00002	.00015	.140	.00022
%RSD	.00438	.01609	13.052	.26581	111.13
#1	38.537	.10593	-.00121	52.773	-.00035
#2	38.535	.10596	-.00101	52.575	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00049**	**61.65**	**-.00291**	**-.00233**
Stddev	-----	.00019	.13	.00037	.00086
%RSD	-----	39.637	.2136	12.558	36.748
#1	z 172.5	-.00035	61.56	-.00266	-.00294
#2	z 172.1	-.00063	61.75	-.00317	-.00173
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6705**	**-.00011**	**.34553**	**-.0023**	**.00051**
Stddev	.0073	.00065	.00085	.0018	.00001
%RSD	.10979	566.12	.24480	78.68	1.4358
#1	6.6757	-.00057	.34613	-.0035	.00051
#2	6.6654	.00034	.34493	-.0010	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-8-A Acquired: 8/10/2021 22:30:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.00040**	**.00085**	**.0004**
Stddev	.00073	.00005	.00065	.0004
%RSD	88.653	11.201	76.585	93.87
#1	.00031	-.00043	.00039	.0007
#2	.00134	-.00037	.00131	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3290.9**	**2676.5**	**56584.**	**3161.7**
Stddev	1.5	5.7	56.	12.6
%RSD	.04441	.21178	.09826	.39878
#1	3291.9	2680.5	56545.	3170.6
#2	3289.9	2672.5	56623.	3152.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.125%	93.782%	93.773%	101.35%
Range				

Sample Name: 480-188049-B-9-A Acquired: 8/10/2021 22:34:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.03205**	**.00567**	**.02541**	**.16454**
Stddev	.00012	.01725	.00172	.00059	.00003
%RSD	38.500	53.813	30.371	2.3148	.01992
#1	-.00041	.01985	.00446	.02582	.16457
#2	-.00024	.04424	.00689	.02499	.16452
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**143.32**	**.00012**	**-.0095**	**-.00006**
Stddev	.00002	.54	.00001	.0141	.00010
%RSD	18.509	.37900	6.9812	147.8	156.46
#1	-.00008	142.93	.00012	.0004	-.00013
#2	-.00010	143.70	.00011	-.0195	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00056**	**1.9976**	**3.5496**	**.01214**
Stddev	.00003	.00054	.0098	.0024	.00165
%RSD	8.2676	97.173	.49278	.06814	13.556
#1	.00032	.00017	1.9907	3.5513	.01098
#2	.00036	.00094	2.0046	3.5478	.01331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-9-A Acquired: 8/10/2021 22:34:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.732**	**.10786**	**-.00124**	**101.82**	**-.00036**
Stddev	.136	.00041	.00011	.25	.00027
%RSD	.36954	.38352	8.5582	.24477	73.667
#1	36.636	.10757	-.00117	101.65	-.00017
#2	36.828	.10815	-.00132	102.00	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00016**	**33.95**	**-.00115**	**-.00668**
Stddev	-----	.00038	.10	.00134	.00174
%RSD	-----	239.16	.2903	115.91	26.035
#1	z 171.0	-.00042	34.02	-.00210	-.00791
#2	z 172.8	.00011	33.88	-.00021	-.00545
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1437**	**-.00026**	**.21038**	**-.0041**	**.00052**
Stddev	.0156	.00033	.00055	.0048	.00003
%RSD	.21771	127.31	.26356	117.2	5.8400
#1	7.1327	-.00049	.20999	-.0007	.00054
#2	7.1547	-.00003	.21077	-.0075	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-9-A Acquired: 8/10/2021 22:34:07 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00052**	**-.00035**	**.01803**	**-.0010**
Stddev	.00126	.00011	.00064	.0006
%RSD	242.16	32.961	3.5626	60.07
#1	-.00141	-.00027	.01848	-.0006
#2	.00037	-.00043	.01758	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3254.9**	**2670.3**	**56414.**	**3151.1**
Stddev	.9	2.6	49.	11.3
%RSD	.02774	.09627	.08663	.35836
#1	3254.2	2668.5	56448.	3159.0
#2	3255.5	2672.2	56379.	3143.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.170%	93.564%	93.491%	101.01%
Range				

Sample Name: 480-188049-B-10-A Acquired: 8/10/2021 22:37:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.01640**	**.00031**	**.02923**	**.24694**
Stddev	.00006	.02156	.00088	.00010	.00030
%RSD	30.312	131.50	278.40	.32907	.11962
#1	.00026	.03164	-.00030	.02916	.24673
#2	.00017	.00115	.00093	.02930	.24715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**138.20**	**.00020**	**.0322**	**-.00011**
Stddev	.00004	.04	.00000	.0136	.00003
%RSD	58.421	.02742	2.4327	42.16	25.557
#1	-.00009	138.22	.00020	.0226	-.00009
#2	-.00004	138.17	.00019	.0418	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00052**	**.68914**	**3.5927**	**.00917**
Stddev	.00026	.00023	.00058	.0068	.00022
%RSD	278.72	45.539	.08390	.18806	2.3512
#1	.00028	.00035	.68955	3.5975	.00902
#2	-.00009	.00068	.68873	3.5879	.00933
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-10-A Acquired: 8/10/2021 22:37:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.414**	**.05940**	**-.00248**	**125.92**	**-.00005**
Stddev	.112	.00006	.00008	.17	.00003
%RSD	.32456	.10328	3.3115	.13180	52.446
#1	34.335	.05944	-.00254	125.80	-.00007
#2	34.493	.05935	-.00242	126.03	-.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00074**	**21.39**	**-.00193**	**-.00540**
Stddev	-----	.00093	.03	.00287	.00191
%RSD	-----	125.74	.1208	148.56	35.284
#1	z 171.7	.00008	21.41	.00010	-.00406
#2	z 171.4	.00140	21.37	-.00396	-.00675
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.5389**	**-.00051**	**.18265**	**.0136**	**.00045**
Stddev	.0071	.00053	.00048	.0095	.00027
%RSD	.10924	104.89	.26068	69.94	61.342
#1	6.5339	-.00089	.18298	.0069	.00025
#2	6.5440	-.00013	.18231	.0203	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-10-A Acquired: 8/10/2021 22:37:55 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00009**	**-.00027**	**.00139**	**.0000**
Stddev	.00054	.00035	.00017	.0010
%RSD	567.46	129.46	12.349	3555.
#1	.00029	-.00052	.00127	-.0007
#2	-.00047	-.00002	.00151	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3236.9**	**2673.3**	**56005.**	**3148.9**
Stddev	2.8	4.5	86.	9.9
%RSD	.08698	.16731	.15313	.31316
#1	3234.9	2670.2	56066.	3155.9
#2	3238.9	2676.5	55945.	3142.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.695%	93.669%	92.814%	100.94%
Range				

Sample Name: 480-188049-B-11-A Acquired: 8/10/2021 22:41:43 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00035**	**.02514**	**-.00294**	**.01804**	**.31459**
Stddev	.00020	.00201	.00087	.00051	.00035
%RSD	56.667	7.9891	29.532	2.8043	.11053
#1	-.00050	.02656	-.00233	.01768	.31483
#2	-.00021	.02372	-.00355	.01840	.31434
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**138.13**	**.00015**	**-.0089**	**-.00025**
Stddev	.00001	.19	.00005	.0138	.00003
%RSD	9.9751	.13770	31.326	155.4	11.023
#1	-.00011	138.26	.00018	-.0187	-.00023
#2	-.00013	137.99	.00012	.0009	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00061**	**1.7647**	**2.1580**	**.00755**
Stddev	.00000	.00036	.0011	.0189	.00099
%RSD	2.5867	59.186	.06030	.87643	13.063
#1	.00011	.00087	1.7639	2.1446	.00685
#2	.00012	.00036	1.7654	2.1713	.00825
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-11-A Acquired: 8/10/2021 22:41:43 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**34.148**	**.05107**	**-.00137**	**104.86**	**-.00041**
Stddev	.013	.00005	.00011	.56	.00020
%RSD	.03879	.09086	8.3899	.53031	48.578
#1	34.139	.05104	-.00145	105.25	-.00027
#2	34.157	.05111	-.00129	104.47	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00076**	**18.44**	**-.00192**	**-.00331**
Stddev	-----	.00174	.01	.00060	.00339
%RSD	-----	229.63	.0781	31.264	102.47
#1	z 173.3	.00198	18.43	-.00235	-.00571
#2	z 173.5	-.00047	18.45	-.00150	-.00091
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2757**	**-.00049**	**.29002**	**-.0071**	**.00046**
Stddev	.0142	.00133	.00103	.0092	.00001
%RSD	.19518	274.82	.35555	128.7	2.8905
#1	7.2857	-.00143	.29075	-.0136	.00045
#2	7.2656	.00046	.28929	-.0006	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-11-A Acquired: 8/10/2021 22:41:43 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00028**	**.00078**	**.0004**
Stddev	.00035	.00021	.00004	.0001
%RSD	141.26	75.864	4.7029	21.30
#1	-.00050	-.00013	.00081	.0004
#2	-.00000	-.00043	.00076	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3257.0**	**2682.2**	**56326.**	**3152.9**
Stddev	.3	.6	15.	5.3
%RSD	.00910	.02375	.02654	.16848
#1	3256.8	2682.7	56316.	3149.1
#2	3257.2	2681.8	56337.	3156.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.227%	93.980%	93.346%	101.07%
Range				

Sample Name: 480-188049-B-12-A Acquired: 8/10/2021 22:45:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.01624**	**-.00112**	**.08908**	**.08233**
Stddev	.00026	.00612	.00244	.00047	.00012
%RSD	183.46	37.695	217.37	.52321	.15097
#1	.00004	.02057	-.00285	.08875	.08242
#2	-.00032	.01191	.00060	.08941	.08224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**152.25**	**.00034**	**.0171**	**.00031**
Stddev	.00008	.11	.00000	.0097	.00012
%RSD	69.186	.07250	.20803	56.73	40.407
#1	-.00017	152.33	.00034	.0103	.00022
#2	-.00006	152.17	.00034	.0240	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00099**	**.02818**	**5.0426**	**.01117**
Stddev	.00010	.00025	.00158	.0051	.00091
%RSD	115.55	24.889	5.5932	.10119	8.1822
#1	.00016	.00082	.02706	5.0462	.01182
#2	.00002	.00117	.02929	5.0390	.01053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-12-A Acquired: 8/10/2021 22:45:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.354**	**.07738**	**-.00195**	**88.115**	**.00068**
Stddev	.011	.00009	.00012	.008	.00024
%RSD	.03477	.11265	6.3150	.00964	35.271
#1	32.346	.07732	-.00204	88.121	.00051
#2	32.362	.07744	-.00187	88.109	.00085
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00157**	**49.54**	**-.00103**	**-.00497**
Stddev	-----	.00028	.00	.00039	.00178
%RSD	-----	17.508	.0048	37.907	35.752
#1	z 171.5	.00138	49.54	-.00075	-.00622
#2	z 172.2	.00177	49.54	-.00130	-.00371
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.8691**	**-.00087**	**1.6832**	**-.0036**	**.00060**
Stddev	.0108	.00050	.0021	.0024	.00014
%RSD	.18371	56.917	.12487	67.33	23.347
#1	5.8615	-.00122	1.6817	-.0053	.00070
#2	5.8768	-.00052	1.6847	-.0019	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-12-A Acquired: 8/10/2021 22:45:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00074**	**.00000**	**.00295**	**.0007**
Stddev	.00010	.00011	.00042	.0005
%RSD	13.353	5720.9	14.356	70.81
#1	-.00067	-.00008	.00325	.0010
#2	-.00081	.00008	.00265	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3265.6**	**2664.1**	**56408.**	**3166.6**
Stddev	.9	3.3	65.	1.3
%RSD	.02908	.12438	.11486	.03970
#1	3264.9	2661.8	56454.	3167.5
#2	3266.3	2666.4	56363.	3165.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.455%	93.346%	93.483%	101.51%
Range				

Sample Name: 480-188049-B-13-A Acquired: 8/10/2021 22:49:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01051**	**.00354**	**.02381**	**.18751**
Stddev	.00017	.00863	.00249	.00079	.00014
%RSD	242.48	82.179	70.333	3.3377	.07447
#1	.00005	.00440	.00178	.02325	.18761
#2	-.00020	.01661	.00530	.02437	.18741
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**127.08**	**.00012**	**.0073**	**-.00017**
Stddev	.00015	.24	.00007	.0096	.00021
%RSD	335.16	.18635	56.726	131.2	123.58
#1	-.00016	127.24	.00016	.0005	-.00002
#2	.00006	126.91	.00007	.0141	-.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.00064**	**2.1431**	**4.9538**	**.01347**
Stddev	.00011	.00006	.0067	.0021	.00184
%RSD	331.69	9.1633	.31370	.04220	13.688
#1	.00011	.00068	2.1384	4.9553	.01478
#2	-.00004	.00060	2.1479	4.9523	.01217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-13-A Acquired: 8/10/2021 22:49:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.497**	**.05973**	**.00068**	**78.269**	**-.00022**
Stddev	.025	.00011	.00006	.238	.00008
%RSD	.07591	.18104	9.2863	.30420	37.948
#1	32.480	.05980	.00072	78.101	-.00027
#2	32.515	.05965	.00063	78.437	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00109**	**21.96**	**-.00319**	**-.00463**
Stddev	-----	.00057	.01	.00003	.00087
%RSD	-----	52.543	.0526	1.0546	18.761
#1	z 170.2	.00068	21.96	-.00317	-.00401
#2	z 171.1	.00149	21.97	-.00321	-.00524
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9982**	**-.00110**	**.18791**	**-.0063**	**.00059**
Stddev	.0165	.00088	.00005	.0059	.00029
%RSD	.20661	79.648	.02668	93.49	49.710
#1	8.0099	-.00048	.18794	-.0021	.00080
#2	7.9865	-.00172	.18787	-.0105	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-13-A Acquired: 8/10/2021 22:49:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00159**	**-.00024**	**.00571**	**.0001**
Stddev	.00142	.00025	.00028	.0001
%RSD	89.335	104.31	4.9721	175.7
#1	-.00259	-.00006	.00591	.0001
#2	-.00059	-.00041	.00551	-.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3301.3**	**2687.6**	**56789.**	**3168.2**
Stddev	.9	1.6	73.	8.4
%RSD	.02643	.06090	.12827	.26356
#1	3300.7	2686.5	56738.	3162.3
#2	3301.9	2688.8	56841.	3174.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.399%	94.170%	94.113%	101.56%
Range				

Sample Name: 480-188049-B-14-A Acquired: 8/10/2021 22:53:10 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.03279**	**.00002**	**.02120**	**.17466**
Stddev	.00010	.02006	.00024	.00033	.00042
%RSD	25.002	61.193	1195.4	1.5626	.24269
#1	-.00045	.01860	.00019	.02096	.17436
#2	-.00032	.04697	-.00015	.02143	.17496
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**117.43**	**.00024**	**-.0090**	**-.00011**
Stddev	.00003	.22	.00008	.0252	.00007
%RSD	41.784	.18514	31.904	279.6	65.474
#1	-.00009	117.28	.00018	.0088	-.00016
#2	-.00005	117.58	.00029	-.0268	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00054**	**1.0610**	**3.0257**	**.00954**
Stddev	.00002	.00091	.0107	.0094	.00115
%RSD	7.4787	168.83	1.0120	.31167	12.013
#1	.00026	-.00010	1.0534	3.0191	.00873
#2	.00029	.00118	1.0686	3.0324	.01035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-14-A Acquired: 8/10/2021 22:53:10 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**28.602**	**.05816**	**.00298**	**28.761**	**-.00048**
Stddev	.027	.00015	.00036	.103	.00000
%RSD	.09282	.25973	12.174	.35835	.19581
#1	28.621	.05806	.00272	28.688	-.00048
#2	28.583	.05827	.00324	28.834	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00164**	**26.18**	**-.00347**	**-.00387**
Stddev	-----	.00083	.01	.00047	.00103
%RSD	-----	50.649	.0445	13.394	26.579
#1	z 167.7	.00105	26.17	-.00314	-.00460
#2	z 167.9	.00222	26.19	-.00380	-.00315
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3856**	**-.00023**	**.18148**	**-.0017**	**.00036**
Stddev	.0031	.00001	.00069	.0080	.00003
%RSD	.04213	3.8298	.38251	472.9	7.7864
#1	7.3834	-.00022	.18099	-.0073	.00038
#2	7.3878	-.00023	.18197	.0040	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-14-A Acquired: 8/10/2021 22:53:10 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00080**	**-.00024**	**-.00004**	**-.0002**
Stddev	.00002	.00002	.00032	.0006
%RSD	2.3431	10.040	783.62	291.0
#1	-.00079	-.00022	.00019	-.0006
#2	-.00082	-.00025	-.00027	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3378.1**	**2709.1**	**57459.**	**3118.8**
Stddev	1.4	5.9	125.	9.4
%RSD	.04209	.21900	.21744	.30168
#1	3379.1	2713.3	57371.	3125.5
#2	3377.1	2704.9	57548.	3112.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.433%	94.923%	95.224%	99.975%
Range				

Sample Name: 480-188049-B-15-A Acquired: 8/10/2021 22:56:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.03243**	**.03017**	**.03059**	**.32531**
Stddev	.00035	.00700	.00007	.00032	.00002
%RSD	445.32	21.586	.24172	1.0603	.00554
#1	-.00033	.03738	.03023	.03036	.32530
#2	.00017	.02748	.03012	.03082	.32533
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**132.95**	**.00023**	**-.0053**	**-.00004**
Stddev	.00012	.65	.00020	.0071	.00014
%RSD	683.93	.48615	85.131	134.2	358.91
#1	-.00010	133.40	.00009	-.0103	-.00014
#2	.00007	132.49	.00037	-.0003	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00016**	**2.3453**	**3.4145**	**.01034**
Stddev	.00020	.00007	.0055	.0031	.00172
%RSD	172.87	42.342	.23344	.09204	16.637
#1	-.00003	.00021	2.3491	3.4167	.01156
#2	.00026	.00011	2.3414	3.4123	.00913
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-15-A Acquired: 8/10/2021 22:56:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**33.412**	**.04768**	**-.00450**	**82.384**	**-.00005**
Stddev	.018	.00008	.00013	.049	.00018
%RSD	.05527	.17525	2.8474	.05993	395.25
#1	33.399	.04762	-.00440	82.419	-.00017
#2	33.425	.04774	-.00459	82.349	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00149**	**21.36**	**-.00135**	**-.00585**
Stddev	-----	.00021	.02	.00206	.00173
%RSD	-----	14.141	.0756	152.27	29.559
#1	z 171.7	.00164	21.38	.00010	-.00707
#2	z 171.5	.00134	21.35	-.00281	-.00463
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.5080**	**-.00033**	**.63698**	**.0041**	**.00029**
Stddev	.0217	.00092	.00235	.0060	.00007
%RSD	.25551	275.50	.36917	146.8	24.267
#1	8.5233	.00031	.63865	-.0002	.00024
#2	8.4926	-.00098	.63532	.0083	.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-15-A Acquired: 8/10/2021 22:56:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00045**	**-.00024**	**.00350**	**-.0006**
Stddev	.00077	.00019	.00014	.0025
%RSD	173.27	79.458	4.0697	430.8
#1	.00010	-.00037	.00340	.0012
#2	-.00100	-.00010	.00360	-.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3292.0**	**2680.2**	**56496.**	**3159.4**
Stddev	.7	7.8	276.	20.4
%RSD	.02206	.29254	.48764	.64452
#1	3291.5	2674.7	56690.	3145.0
#2	3292.5	2685.7	56301.	3173.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.154%	93.910%	93.627%	101.28%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 23:00:50 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.95202	48.731	.98034	1.0074	.96131	.97592	49.097	.99535
Stddev	.00263	.230	.00015	.0002	.00363	.00393	.287	.00045
%RSD	.27603	.47177	.01554	.01626	.37723	.40283	.58459	.04496
#1	.95388	48.893	.98023	1.0075	.96387	.97870	49.300	.99504
#2	.95016	48.568	.98045	1.0073	.95874	.97314	48.895	.99567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9123	.96981	.97912	.98188	47.746	47.859	.91769	47.470
Stddev	.0254	.00078	.00198	.00200	.085	.297	.00151	.079
%RSD	2.788	.08091	.20200	.20412	.17893	.62123	.16409	.16586
#1	.9303	.96925	.98052	.98046	47.806	48.069	.91875	47.526
#2	.8943	.97036	.97772	.98329	47.685	47.648	.91662	47.414
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	.96175	1.0072	47.616	.97762	z *****	.97763	24.77	.99221
Stddev	.00034	.0048	.181	.00048	-----	.00165	.02	.00158
%RSD	.03511	.47383	.38044	.04919	-----	.16879	.0782	.15939
#1	.96199	1.0038	47.744	.97796	z 8958.	.97646	24.78	.99109
#2	.96151	1.0106	47.488	.97728	z 8952.	.97880	24.76	.99333
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 23:00:50 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98392	9.5137	.97630	.96266	.9686	.98073	.98464	.98401
Stddev	.00953	.0219	.00143	.00402	.0023	.00174	.00058	.00189
%RSD	.96881	.22964	.14656	.41786	.2324	.17786	.05891	.19161
#1	.99066	9.5292	.97528	.96550	.9670	.97949	.98423	.98268
#2	.97718	9.4983	.97731	.95981	.9702	.98196	.98505	.98535
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.98556	.9585
Stddev	.00033	.0059
%RSD	.03332	.6182
#1	.98533	.9543
#2	.98579	.9627
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3279.3	2767.2	57662.	3168.9
Stddev	3.5	2.7	16.	22.8
%RSD	.10804	.09619	.02759	.71810
#1	3281.8	2769.1	57674.	3152.8
#2	3276.8	2765.3	57651.	3185.0

Sample Name: CCB-6597963 Acquired: 8/10/2021 23:04:27 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**.01577**	**.00170**	**-.00334**	**.00009**	**-.00011**	**-.00656**	**-.00007**
Stddev	.00018	.03919	.00059	.00023	.00001	.00001	.00196	.00003
%RSD	107.49	248.47	34.987	6.9088	12.060	11.326	29.898	45.174
#1	-.00030	-.01194	.00128	-.00318	.00008	-.00010	-.00517	-.00005
#2	-.00004	.04348	.00212	-.00350	.00009	-.00012	-.00795	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0254**	**.00016**	**-.00001**	**.00009**	**.00280**	**-.14283**	**-.00034**	**.00427**
Stddev	.0113	.00012	.00008	.00046	.00291	.00020	.00062	.00010
%RSD	44.40	76.222	1334.9	494.44	103.88	.14095	182.72	2.3470
#1	-.0174	.00007	.00005	.00042	.00074	-.14269	-.00078	.00434
#2	-.0334	.00024	-.00006	-.00023	.00486	-.14297	.00010	.00420
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00001**	**.00101**	**-.00368**	**-.00009**	z *****	**.00071**	**.0066**	**.00006**
Stddev	.00002	.00139	.00561	.00017	-----	.00089	.0006	.00254
%RSD	223.04	136.85	152.60	178.48	-----	125.39	9.250	4413.5
#1	.00003	.00200	.00029	.00002	z 138.3	.00134	.0062	-.00174
#2	-.00001	.00003	-.00765	-.00021	z 139.1	.00008	.0070	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 23:04:27 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00604	.00221	-.00004	.00001	.0107	-.00016	-.00112	.00007
Stddev	.00152	.02120	.00042	.00003	.0072	.00011	.00152	.00020
%RSD	25.099	959.26	973.77	510.81	67.54	67.365	135.81	271.51
#1	.00497	-.01278	.00025	.00002	.0158	-.00008	-.00220	-.00007
#2	.00711	.01720	-.00034	-.00001	.0056	-.00023	-.00004	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00070	-.0005
Stddev	.00014	.0002
%RSD	19.765	43.29
#1	.00060	-.0003
#2	.00080	-.0006
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3821.2	2864.6	61067.	3157.7
Stddev	3.6	1.8	93.	12.1
%RSD	.09472	.06437	.15228	.38333
#1	3823.7	2863.3	61133.	3166.3
#2	3818.6	2865.9	61001.	3149.1

Sample Name: CCVL-6603764 Acquired: 8/10/2021 23:08:18 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00575**	**.18930**	**.01492**	**.01561**	**.00211**	**.00194**	**.50785**
Stddev	.00058	.00424	.00348	.00033	.00002	.00004	.00629
%RSD	10.104	2.2418	23.315	2.1271	1.0570	2.0526	1.2387
#1	.00534	.18630	.01246	.01585	.00213	.00191	.51229
#2	.00616	.19230	.01738	.01538	.00210	.00197	.50340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00186**	**-.0328**	**.00381**	**.00371**	**.00932**	**.04523**	W **.32683**
Stddev	.00000	.0474	.00014	.00030	.00008	.00138	.01869
%RSD	.14944	144.5	3.6217	8.0506	.87138	3.0610	5.7198
#1	.00185	-.0664	.00371	.00350	.00938	.04620	.34005
#2	.00186	.0007	.00391	.00392	.00926	.04425	.31361
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02700**	**.19378**	**.00324**	F **.00483**	**.98883**	**.00942**	z *****
Stddev	.00014	.00039	.00003	.00024	.00734	.00019	-----
%RSD	.51641	.20151	.78391	4.9468	.74212	2.0247	-----
#1	.02710	.19405	.00326	.00499	.99402	.00929	z 137.9
#2	.02691	.19350	.00322	.00466	.98364	.00956	z 138.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 23:08:18 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00960**	**.1945**	**.01915**	**.02348**	**.44849**	**.00940**	**.00472**
Stddev	.00048	.0002	.00079	.00080	.00082	.00039	.00008
%RSD	4.9565	.0802	4.1128	3.3977	.18244	4.1526	1.7286
#1	.00994	.1946	.01859	.02291	.44791	.00912	.00478
#2	.00926	.1944	.01970	.02404	.44907	.00967	.00466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**.00456**	**.01769**	**.00503**	**.01047**	**.0019**
Stddev	.0039	.00020	.00025	.00061	.00012	.0009
%RSD	368.3	4.3297	1.4079	12.042	1.1491	48.96
#1	.0038	.00470	.01787	.00546	.01055	.0025
#2	-.0017	.00442	.01752	.00460	.01038	.0012
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3810.2**	**2876.7**	**61193.**	**3173.4**
Stddev	4.0	3.0	50.	25.6
%RSD	.10449	.10519	.08152	.80540
#1	3813.0	2878.9	61158.	3155.4
#2	3807.4	2874.6	61229.	3191.5

Sample Name: 480-188049-B-16-A Acquired: 8/10/2021 23:12:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.04914**	**.00063**	**.08361**	**.28829**
Stddev	.00037	.00642	.00124	.00020	.00060
%RSD	100.01	13.061	197.08	.23930	.20746
#1	-.00064	.05368	-.00025	.08347	.28787
#2	-.00011	.04460	.00151	.08376	.28871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**193.91**	**.00032**	**-.0255**	**-.00009**
Stddev	.00001	.47	.00015	.0228	.00011
%RSD	14.306	.24268	47.946	89.46	117.13
#1	-.00009	194.24	.00021	-.0416	-.00002
#2	-.00007	193.58	.00042	-.0094	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00068**	**3.1186**	**5.2957**	**.01206**
Stddev	.00004	.00022	.0006	.0086	.00040
%RSD	49.746	32.133	.02017	.16333	3.2893
#1	.00011	.00084	3.1181	5.3018	.01178
#2	.00005	.00053	3.1190	5.2896	.01234
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-16-A Acquired: 8/10/2021 23:12:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**50.514**	**.06740**	**-.00404**	**63.695**	**-.00037**
Stddev	.245	.00045	.00015	.108	.00013
%RSD	.48450	.66460	3.7650	.16915	36.150
#1	50.341	.06708	-.00414	63.619	-.00046
#2	50.687	.06771	-.00393	63.771	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00170**	**36.65**	**-.00235**	**-.00143**
Stddev	-----	.00079	.03	.00122	.00201
%RSD	-----	46.490	.0772	51.905	139.94
#1	z 178.2	.00226	36.63	-.00321	-.00285
#2	z 177.6	.00114	36.67	-.00149	-.00002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1048**	**-.00031**	**.29545**	**.0094**	**.00095**
Stddev	.0089	.00075	.00023	.0039	.00011
%RSD	.12534	247.31	.07728	41.58	11.291
#1	7.0985	.00023	.29561	.0066	.00087
#2	7.1111	-.00084	.29529	.0122	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-16-A Acquired: 8/10/2021 23:12:09 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00019**	**.00011**	**-.0005**
Stddev	.00077	.00014	.00132	.0009
%RSD	203.52	69.564	1243.2	165.0
#1	.00017	-.00010	.00104	.0001
#2	-.00092	-.00029	-.00083	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3231.2**	**2653.5**	**56360.**	**3151.3**
Stddev	.5	3.5	15.	8.5
%RSD	.01673	.13065	.02704	.26926
#1	3231.6	2651.1	56371.	3145.3
#2	3230.8	2656.0	56349.	3157.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.543%	92.976%	93.402%	101.01%
Range				

Sample Name: 480-188049-B-17-A Acquired: 8/10/2021 23:16:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.02314**	**.00034**	**.02614**	**.20037**
Stddev	.00018	.00415	.00004	.00052	.00023
%RSD	79.249	17.925	12.537	1.9998	.11523
#1	.00010	.02020	.00037	.02651	.20021
#2	.00035	.02607	.00031	.02577	.20053
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00010**	**132.78**	**.00019**	**.0325**	**-.00003**
Stddev	.00005	.18	.00008	.0091	.00003
%RSD	49.155	.13838	43.919	28.08	92.488
#1	-.00014	132.65	.00013	.0261	-.00005
#2	-.00007	132.91	.00024	.0390	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00029**	**1.9798**	**2.9220**	**.00866**
Stddev	.00021	.00001	.0082	.0045	.00067
%RSD	16848.	3.9565	.41432	.15421	7.7862
#1	.00015	.00028	1.9856	2.9188	.00819
#2	-.00015	.00030	1.9740	2.9252	.00914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-17-A Acquired: 8/10/2021 23:16:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**35.794**	**.05880**	**-.00128**	**21.426**	**-.00050**
Stddev	.174	.00037	.00013	.009	.00028
%RSD	.48654	.63225	10.115	.04145	55.305
#1	35.671	.05854	-.00137	21.432	-.00030
#2	35.917	.05906	-.00119	21.420	-.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00067**	**21.15**	**-.00179**	**-.00554**
Stddev	-----	.00040	.01	.00049	.00466
%RSD	-----	60.484	.0332	27.279	84.254
#1	z 171.2	.00095	21.15	-.00213	-.00224
#2	z 171.5	.00038	21.14	-.00144	-.00883
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.7569**	**-.00080**	**.28151**	**-.0112**	**.00072**
Stddev	.0090	.00029	.00033	.0121	.00029
%RSD	.13375	36.703	.11884	108.2	41.041
#1	6.7505	-.00059	.28128	-.0026	.00093
#2	6.7633	-.00100	.28175	-.0197	.00051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-17-A Acquired: 8/10/2021 23:16:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00093**	**-.00017**	**.00048**	**-.0009**
Stddev	.00154	.00010	.00042	.0013
%RSD	165.78	60.538	85.726	149.6
#1	.00202	-.00010	.00078	.0001
#2	-.00016	-.00024	.00019	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3361.1**	**2705.8**	**57164.**	**3126.1**
Stddev	.7	.5	16.	9.7
%RSD	.01969	.01856	.02784	.30929
#1	3361.5	2706.2	57175.	3119.3
#2	3360.6	2705.5	57153.	3132.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.982%	94.808%	94.735%	100.21%
Range				

Sample Name: 480-188049-B-18-A Acquired: 8/10/2021 23:19:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.04808**	**-.00160**	**.01053**	**.10644**
Stddev	.00034	.02189	.00171	.00009	.00014
%RSD	181.90	45.536	107.26	.86369	.13279
#1	.00043	.06356	-.00281	.01059	.10634
#2	-.00005	.03260	-.00039	.01046	.10654
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**136.44**	**.00027**	**.0327**	**.00022**
Stddev	.00001	.00	.00006	.0028	.00005
%RSD	26.060	.00025	21.739	8.700	22.473
#1	-.00004	136.44	.00023	.0347	.00019
#2	-.00006	136.44	.00031	.0307	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00056**	**.68029**	**1.8502**	**.00625**
Stddev	.00003	.00041	.00595	.0233	.00061
%RSD	15.437	73.865	.87474	1.2601	9.6921
#1	.00019	.00085	.67608	1.8666	.00668
#2	.00015	.00027	.68449	1.8337	.00583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-18-A Acquired: 8/10/2021 23:19:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**38.496**	**.04747**	**-.00211**	**20.553**	**.00164**
Stddev	.185	.00047	.00018	.068	.00016
%RSD	.47953	.98909	8.7266	.32905	9.5111
#1	38.626	.04780	-.00224	20.505	.00153
#2	38.365	.04713	-.00198	20.601	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00043**	**51.62**	**-.00255**	**-.00327**
Stddev	-----	.00001	.06	.00002	.00117
%RSD	-----	2.8677	.1152	.63680	35.740
#1	z 171.4	.00043	51.58	-.00256	-.00410
#2	z 170.4	.00044	51.66	-.00254	-.00245
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.6395**	**-.00059**	**.16162**	**.0010**	**.00072**
Stddev	.0143	.00028	.00060	.0020	.00011
%RSD	.25369	48.406	.37036	197.6	15.836
#1	5.6294	-.00039	.16120	.0024	.00080
#2	5.6497	-.00079	.16204	-.0004	.00064
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-18-A Acquired: 8/10/2021 23:19:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00001**	**-.00015**	**.00130**	**.0014**
Stddev	.00098	.00031	.00031	.0019
%RSD	10102.	204.10	23.570	129.8
#1	-.00070	.00007	.00151	.0001
#2	.00068	-.00037	.00108	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3360.5**	**2704.3**	**57187.**	**3153.9**
Stddev	2.2	4.5	18.	3.8
%RSD	.06660	.16797	.03102	.12143
#1	3362.1	2707.6	57175.	3151.2
#2	3358.9	2701.1	57200.	3156.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.966%	94.756%	94.773%	101.10%
Range				

Sample Name: 480-188049-B-19-A Acquired: 8/10/2021 23:23:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.03028**	**.00083**	**.02638**	**.22397**
Stddev	.00026	.01665	.00081	.00004	.00030
%RSD	100.98	54.999	98.070	.13998	.13599
#1	-.00044	.01850	.00141	.02636	.22376
#2	-.00007	.04205	.00025	.02641	.22419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**124.17**	**.00030**	**.0108**	**.00003**
Stddev	.00005	.30	.00003	.0220	.00006
%RSD	81.815	.24100	10.803	204.0	232.49
#1	-.00010	123.96	.00032	.0263	-.00002
#2	-.00003	124.39	.00027	-.0048	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00014**	**1.8267**	**2.9632**	**.00828**
Stddev	.00006	.00007	.0115	.0010	.00031
%RSD	26.952	48.465	.62915	.03251	3.7796
#1	.00026	.00019	1.8186	2.9625	.00850
#2	.00018	.00009	1.8349	2.9639	.00806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-19-A Acquired: 8/10/2021 23:23:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.823**	**.06096**	**-.00254**	**32.059**	**-.00017**
Stddev	.074	.00021	.00006	.070	.00013
%RSD	.23252	.33787	2.4794	.21879	75.100
#1	31.770	.06081	-.00258	32.009	-.00008
#2	31.875	.06110	-.00249	32.109	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00069**	**20.64**	**-.00187**	**-.00443**
Stddev	-----	.00081	.01	.00093	.00096
%RSD	-----	117.03	.0375	49.850	21.603
#1	z 170.8	.00012	20.63	-.00121	-.00511
#2	z 170.5	.00126	20.64	-.00252	-.00376
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.2088**	**-.00092**	**.24388**	**-.0001**	**.00036**
Stddev	.0141	.00039	.00020	.0126	.00002
%RSD	.22772	42.283	.08324	22820.	5.0921
#1	6.2188	-.00065	.24374	-.0090	.00038
#2	6.1988	-.00120	.24403	.0089	.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188049-B-19-A Acquired: 8/10/2021 23:23:37 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00090**	**-.00030**	**.00025**	**-.0017**
Stddev	.00014	.00000	.00008	.0004
%RSD	15.649	1.0762	33.010	23.99
#1	.00080	-.00031	.00031	-.0014
#2	.00099	-.00030	.00019	-.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3356.8**	**2711.3**	**57725.**	**3181.5**
Stddev	2.2	3.5	195.	6.9
%RSD	.06683	.12809	.33861	.21781
#1	3358.4	2713.7	57863.	3186.4
#2	3355.3	2708.8	57587.	3176.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.870%	94.999%	95.665%	101.98%
Range				

Sample Name: MB 480-592242/1-A Acquired: 8/10/2021 23:27:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.01504**	**-.00139**	**-.00180**	**.00003**
Stddev	.00005	.00414	.00274	.00031	.00003
%RSD	79.008	27.520	197.26	17.214	74.907
#1	-.00003	.01796	-.00332	-.00158	.00005
#2	-.00010	.01211	.00055	-.00202	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.02838**	**.00004**	**-.0150**	**.00024**
Stddev	.00002	.00024	.00009	.0048	.00018
%RSD	43.977	.82897	212.99	32.19	75.420
#1	-.00004	.02821	-.00002	-.0184	.00037
#2	-.00007	.02854	.00011	-.0116	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00027**	**.00256**	**-.16266**	**-.00006**
Stddev	.00010	.00010	.00049	.01904	.00016
%RSD	88.044	36.435	18.955	11.706	249.15
#1	.00004	-.00020	.00222	-.17613	.00005
#2	.00018	-.00034	.00291	-.14920	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592242/1-A Acquired: 8/10/2021 23:27:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.00033**	F **-.00786**	**.00732**	**.00016**
Stddev	.00164	.00000	.00016	.00242	.00009
%RSD	39.699	1.1285	1.9942	33.068	54.659
#1	.00297	.00033	-.00798	.00903	.00010
#2	.00528	.00032	-.00775	.00561	.00022
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			.00500		
Low Limit			-.00500		

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00042**	**.0141**	**-.00096**	**.00057**
Stddev	-----	.00005	.0027	.00109	.00057
%RSD	-----	12.813	18.86	112.91	99.338
#1	z 136.0	.00038	.0122	-.00173	.00017
#2	z 136.5	.00046	.0160	-.00019	.00097
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01994**	**-.00040**	**.00014**	**-.0039**	**-.00061**
Stddev	.00896	.00036	.00000	.0012	.00016
%RSD	44.930	88.794	2.0587	31.35	26.437
#1	.02628	-.00066	.00014	-.0047	-.00072
#2	.01361	-.00015	.00014	-.0030	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592242/1-A Acquired: 8/10/2021 23:27:24 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00107**	**-.00005**	**.00056**	**-.0007**
Stddev	.00024	.00028	.00035	.0001
%RSD	22.558	542.41	62.627	8.285
#1	-.00090	.00015	.00081	-.0007
#2	-.00124	-.00025	.00031	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3843.7**	**2890.1**	**61799.**	**3222.9**
Stddev	4.0	.6	153.	5.2
%RSD	.10424	.02227	.24678	.16176
#1	3846.5	2889.7	61691.	3219.2
#2	3840.8	2890.6	61907.	3226.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.76%	101.27%	102.42%	103.31%
Range				

Sample Name: LCS 480-592242/2-A Acquired: 8/10/2021 23:31:15 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04710**	**9.9908**	**.20800**	**.19979**	**.21907**
Stddev	.00060	.0271	.00045	.00039	.00038
%RSD	1.2715	.27082	.21419	.19276	.17174
#1	.04752	10.010	.20832	.20007	.21934
#2	.04667	9.9717	.20769	.19952	.21881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20615**	**10.029**	**.20413**	**.0132**	**.19245**
Stddev	.00013	.026	.00037	.0238	.00005
%RSD	.06507	.26118	.18113	180.0	.02567
#1	.20625	10.048	.20439	.0301	.19249
#2	.20606	10.011	.20387	-.0036	.19242
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19687**	**.19810**	**9.5700**	**9.7385**	**.18837**
Stddev	.00014	.00001	.0261	.0488	.00192
%RSD	.06938	.00588	.27231	.50088	1.0176
#1	.19677	.19809	9.5884	9.7730	.18972
#2	.19696	.19811	9.5516	9.7040	.18701
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592242/2-A Acquired: 8/10/2021 23:31:15 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.6380**	**.20063**	**.20622**	**9.9168**	**.19518**
Stddev	.0089	.00031	.00038	.0077	.00030
%RSD	.09266	.15297	.18525	.07797	.15207
#1	9.6443	.20085	.20595	9.9223	.19539
#2	9.6317	.20041	.20649	9.9113	.19497
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19784**	**9.980**	**.21718**	**.19502**
Stddev	-----	.00086	.017	.00038	.00446
%RSD	-----	.43469	.1739	.17706	2.2867
#1	z 157.7	.19845	9.992	.21745	.19817
#2	z 157.5	.19723	9.968	.21691	.19187
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4969**	**.19258**	**.20179**	**.0166**	**.20098**
Stddev	.0127	.00028	.00050	.0041	.00001
%RSD	.13324	.14487	.24944	24.52	.00387
#1	9.5059	.19277	.20215	.0195	.20098
#2	9.4880	.19238	.20144	.0138	.20097
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592242/2-A Acquired: 8/10/2021 23:31:15 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20055**	**.19930**	**.19949**	**.0311**
Stddev	.00036	.00008	.00138	.0010
%RSD	.18196	.03989	.69134	3.191
#1	.20081	.19935	.20047	.0304
#2	.20029	.19924	.19852	.0318
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3606.5**	**2849.3**	**60487.**	**3221.3**
Stddev	2.2	2.4	34.	7.4
%RSD	.06237	.08595	.05630	.22985
#1	3608.1	2847.5	60511.	3216.0
#2	3604.9	2851.0	60463.	3226.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.480%	99.834%	100.24%	103.26%
Range				

Sample Name: 480-188067-D-1-A Acquired: 8/10/2021 23:34:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00069**	**.04048**	**.00238**	**3.5761**	**.69038**
Stddev	.00013	.00428	.00148	.0059	.00199
%RSD	18.560	10.568	62.035	.16503	.28778
#1	-.00060	.03746	.00134	3.5719	.69179
#2	-.00078	.04351	.00343	3.5802	.68898
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**184.04**	**.00033**	**.0056**	**.00648**
Stddev	.00003	.45	.00006	.0037	.00005
%RSD	34.759	.24448	16.898	67.23	.69891
#1	-.00007	184.36	.00029	.0082	.00651
#2	-.00011	183.73	.00037	.0029	.00645
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00184**	**.00040**	**30.986**	**64.770**	**.02803**
Stddev	.00052	.00004	.077	.176	.00051
%RSD	28.153	10.752	.24974	.27138	1.8081
#1	.00148	.00043	31.040	64.895	.02767
#2	.00221	.00037	30.931	64.646	.02839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-1-A Acquired: 8/10/2021 23:34:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**114.21**	**.93408**	**-.00602**	**476.93**	**.00452**
Stddev	.37	.00202	.00020	.52	.00039
%RSD	.32390	.21591	3.3245	.10941	8.5456
#1	113.95	.93266	-.00588	477.30	.00479
#2	114.47	.93551	-.00616	476.56	.00425
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00239**	**3.506**	**-.00312**	**-.00529**
Stddev	-----	.00095	.001	.00272	.00503
%RSD	-----	39.967	.0412	87.132	95.023
#1	z 427.7	.00171	3.507	-.00120	-.00174
#2	z 427.1	.00306	3.505	-.00504	-.00885
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.019**	**.00108**	**2.5190**	**.0275**	**.00197**
Stddev	.092	.00032	.0083	.0106	.00013
%RSD	.76495	29.586	.32833	38.57	6.5168
#1	12.084	.00131	2.5248	.0350	.00206
#2	11.954	.00085	2.5131	.0200	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-1-A Acquired: 8/10/2021 23:34:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00054**	**.00124**	**.00053**	**.0024**
Stddev	.00047	.00029	.00079	.0005
%RSD	88.003	23.690	148.53	20.48
#1	-.00020	.00145	.00109	.0020
#2	-.00087	.00103	-.00003	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2923.1**	**2529.0**	**52818.**	**3111.8**
Stddev	3.2	5.1	8.	17.5
%RSD	.10933	.20019	.01506	.56214
#1	2925.4	2532.6	52812.	3099.4
#2	2920.9	2525.4	52824.	3124.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.388%	88.613%	87.532%	99.750%
Range				

Sample Name: 480-188067-D-2-A Acquired: 8/10/2021 23:38:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.01406**	**.00174**	**1.7066**	**.03846**
Stddev	.00048	.00509	.00032	.0009	.00005
%RSD	106.94	36.212	18.588	.05388	.12792
#1	.00011	.01046	.00197	1.7060	.03849
#2	.00079	.01766	.00151	1.7073	.03842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**47.449**	**.00014**	**.0187**	**-.00005**
Stddev	.00009	.051	.00000	.0118	.00000
%RSD	89.188	.10731	.78929	63.29	.05182
#1	-.00017	47.413	.00014	.0270	-.00005
#2	-.00004	47.485	.00014	.0103	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**-.00032**	**.01007**	**15.448**	**.15179**
Stddev	.00021	.00000	.00015	.032	.00076
%RSD	75.675	1.1366	1.5320	.20415	.50022
#1	.00013	-.00032	.00996	15.426	.15125
#2	.00042	-.00031	.01018	15.470	.15232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-2-A Acquired: 8/10/2021 23:38:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.544**	**.00650**	**-.00743**	**85.262**	**-.00048**
Stddev	.205	.00006	.00001	.147	.00001
%RSD	.44043	.87039	.19820	.17184	1.7348
#1	46.689	.00646	-.00742	85.159	-.00049
#2	46.399	.00654	-.00744	85.366	-.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00031**	**15.31**	**-.00147**	**-.00385**
Stddev	-----	.00036	.02	.00077	.00372
%RSD	-----	113.10	.1396	52.465	96.576
#1	z 169.8	.00006	15.33	-.00093	-.00648
#2	z 169.4	.00057	15.30	-.00202	-.00122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2217**	**-.00064**	**8.3037**	**.0016**	**.00013**
Stddev	.0339	.00064	.0517	.0100	.00009
%RSD	.64880	100.88	.62287	622.5	66.324
#1	5.1977	-.00109	8.2672	.0086	.00007
#2	5.2456	-.00018	8.3403	-.0054	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-2-A Acquired: 8/10/2021 23:38:50 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**-.00050**	**.00149**	**.0002**
Stddev	.00183	.00008	.00025	.0006
%RSD	261.40	17.018	17.054	249.8
#1	-.00059	-.00044	.00131	.0007
#2	.00199	-.00056	.00167	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3333.7**	**2711.6**	**57143.**	**3170.4**
Stddev	.3	2.0	118.	13.7
%RSD	.00780	.07515	.20701	.43309
#1	3333.9	2710.2	57060.	3180.1
#2	3333.5	2713.0	57227.	3160.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.258%	95.010%	94.700%	101.63%
Range				

Sample Name: 480-188067-D-3-A Acquired: 8/10/2021 23:42:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00021**	**.03580**	**.01469**	**.95145**	**.20260**
Stddev	.00007	.03265	.00229	.00192	.00022
%RSD	31.989	91.208	15.568	.20207	.10956
#1	-.00026	.05889	.01308	.95281	.20245
#2	-.00017	.01271	.01631	.95009	.20276
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**149.02**	**.00019**	**.0222**	**.00120**
Stddev	.00008	.25	.00008	.0049	.00004
%RSD	190.89	.16620	41.036	22.12	3.2355
#1	-.00009	148.85	.00024	.0257	.00117
#2	.00001	149.20	.00013	.0188	.00122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**-.00009**	**42.733**	**11.795**	**.01404**
Stddev	.00005	.00005	.171	.003	.00070
%RSD	13.749	55.685	.40003	.02358	4.9965
#1	.00035	-.00006	42.612	11.793	.01453
#2	.00043	-.00013	42.854	11.796	.01354
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-3-A Acquired: 8/10/2021 23:42:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**36.612**	**.78906**	**-.00501**	**69.358**	**.00696**
Stddev	.059	.00175	.00024	.121	.00019
%RSD	.16213	.22197	4.8337	.17388	2.7088
#1	36.570	.78782	-.00518	69.444	.00683
#2	36.654	.79030	-.00484	69.273	.00710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00214**	**.7138**	**-.00287**	**-.00395**
Stddev	-----	.00088	.0012	.00109	.00396
%RSD	-----	41.181	.1633	38.015	100.46
#1	z 290.1	.00277	.7147	-.00364	-.00675
#2	z 291.7	.00152	.7130	-.00210	-.00114
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0775**	**-.00047**	**.75891**	**.0429**	**.00099**
Stddev	.0831	.00082	.00299	.0147	.00030
%RSD	1.0289	176.32	.39448	34.38	30.533
#1	8.0187	.00011	.75679	.0325	.00078
#2	8.1363	-.00105	.76102	.0533	.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-3-A Acquired: 8/10/2021 23:42:42 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00106**	**.00100**	**.00132**	**.0032**
Stddev	.00020	.00011	.00058	.0013
%RSD	18.917	10.963	43.592	42.44
#1	.00091	.00092	.00091	.0022
#2	.00120	.00108	.00173	.0041
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3239.4**	**2687.8**	**57179.**	**3203.9**
Stddev	1.0	3.2	197.	10.4
%RSD	.03034	.11960	.34416	.32305
#1	3238.7	2685.5	57319.	3211.2
#2	3240.1	2690.1	57040.	3196.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.762%	94.177%	94.760%	102.70%
Range				

Sample Name: CCV-6603765 Acquired: 8/10/2021 23:46:28 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96111**	**49.254**	**.98136**	**1.0107**	**.96221**	**.97809**	**49.505**	**.99827**
Stddev	.00160	.056	.00080	.0015	.00241	.00047	.158	.00050
%RSD	.16645	.11450	.08113	.15092	.25088	.04822	.31989	.05007
#1	.95998	49.214	.98080	1.0096	.96392	.97842	49.617	.99792
#2	.96224	49.294	.98193	1.0118	.96050	.97775	49.393	.99863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9655**	**.96883**	**.98428**	**.98255**	**48.375**	**47.951**	**.92630**	**48.132**
Stddev	.0029	.00085	.00093	.00003	.173	.190	.00283	.005
%RSD	.3029	.08802	.09431	.00268	.35718	.39591	.30511	.00936
#1	.9676	.96823	.98362	.98253	48.497	48.085	.92830	48.135
#2	.9635	.96943	.98494	.98256	48.253	47.817	.92430	48.128
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.96954**	**1.0074**	**47.864**	**.97758**	z *****	**.97827**	**24.78**	**.99073**
Stddev	.00031	.0046	.088	.00096	-----	.00012	.06	.00026
%RSD	.03167	.45620	.18443	.09856	-----	.01250	.2489	.02592
#1	.96933	1.0042	47.927	.97690	z 8942.	.97836	24.74	.99055
#2	.96976	1.0107	47.802	.97826	z 8940.	.97818	24.83	.99091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/10/2021 23:46:28 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98777	9.6662	.97569	.96611	.9618	.98240	.98329	.98687
Stddev	.00466	.0141	.00071	.00187	.0103	.00131	.00348	.00066
%RSD	.47175	.14555	.07287	.19305	1.075	.13339	.35372	.06681
#1	.98447	9.6562	.97519	.96742	.9545	.98333	.98083	.98734
#2	.99106	9.6761	.97620	.96479	.9691	.98147	.98575	.98641
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99693	.9404
Stddev	.00038	.0049
%RSD	.03815	.5171
#1	.99720	.9369
#2	.99666	.9438
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3282.5	2765.0	57325.	3112.3
Stddev	4.5	2.9	197.	12.6
%RSD	.13729	.10346	.34284	.40484
#1	3285.7	2767.0	57186.	3103.4
#2	3279.3	2762.9	57464.	3121.2

Sample Name: CCB-6597963 Acquired: 8/10/2021 23:50:06 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.01865**	**-.00078**	**-.00118**	**.00008**	**-.00006**	**-.00017**	**-.00006**
Stddev	.00043	.02967	.00078	.00026	.00001	.00007	.00108	.00004
%RSD	165.17	159.09	100.29	21.878	12.098	116.45	641.34	60.854
#1	.00004	-.00233	-.00133	-.00137	.00009	-.00001	.00059	-.00003
#2	-.00057	.03964	-.00023	-.00100	.00008	-.00011	-.00093	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0064**	**.00009**	**.00001**	**.00009**	**.00696**	**-.14064**	**-.00030**	**.00509**
Stddev	.0108	.00016	.00001	.00022	.00358	.01190	.00025	.00012
%RSD	168.0	181.07	106.72	253.83	51.485	8.4606	82.622	2.4011
#1	.0012	-.00003	.00000	.00024	.00442	-.13223	-.00012	.00517
#2	-.0140	.00020	.00002	-.00007	.00949	-.14906	-.00047	.00500
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00000**	**.00079**	**.00464**	**.00002**	z *****	**.00044**	**.0000**	**-.00071**
Stddev	.00003	.00131	.00344	.00003	-----	.00022	.0024	.00012
%RSD	1940.2	165.48	74.153	193.52	-----	49.247	5248.	16.500
#1	-.00003	.00172	.00707	.00004	z 138.4	.00060	-.0016	-.00063
#2	.00002	-.00013	.00221	-.00001	z 138.7	.00029	.0017	-.00079
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/10/2021 23:50:06 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00564	.00071	.00002	-.00001	-.0032	-.00009	-.00047	-.00012
Stddev	.00068	.01217	.00020	.00001	.0044	.00017	.00013	.00002
%RSD	11.980	1710.8	1028.7	74.837	138.7	188.85	27.006	19.692
#1	.00516	-.00790	-.00012	-.00001	-.0063	.00003	-.00038	-.00013
#2	.00611	.00932	.00016	-.00002	-.0001	-.00021	-.00056	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00038	.0003
Stddev	.00030	.0000
%RSD	78.289	2.720
#1	.00017	.0003
#2	.00059	.0003
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3829.5	2874.7	61678.	3189.9
Stddev	4.1	.1	117.	18.6
%RSD	.10578	.00380	.18900	.58426
#1	3826.6	2874.6	61761.	3203.1
#2	3832.4	2874.7	61596.	3176.7

Sample Name: CCVL-6603764 Acquired: 8/10/2021 23:53:57 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00562**	**.20296**	**.01453**	**.01693**	**.00211**	**.00197**	**.49896**
Stddev	.00020	.01216	.00146	.00018	.00002	.00005	.00117
%RSD	3.5203	5.9918	10.045	1.0429	.96490	2.4873	.23415
#1	.00576	.19436	.01350	.01705	.00210	.00193	.49814
#2	.00548	.21156	.01556	.01680	.00213	.00200	.49979
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00190**	**-.0090**	**.00376**	**.00376**	**.00951**	**.04555**	W **.34584**
Stddev	.00002	.0093	.00015	.00014	.00036	.00240	.00448
%RSD	1.2738	103.3	3.8780	3.8424	3.7604	5.2766	1.2958
#1	.00188	-.0155	.00365	.00366	.00926	.04385	.34901
#2	.00192	-.0024	.00386	.00386	.00976	.04725	.34267
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02583**	**.19806**	**.00318**	F **.00467**	**.98988**	**.00941**	z *****
Stddev	.00002	.00479	.00005	.00002	.00511	.00024	-----
%RSD	.09445	2.4164	1.5660	.47475	.51603	2.5524	-----
#1	.02581	.19467	.00322	.00469	.98626	.00958	z 138.7
#2	.02585	.20144	.00315	.00465	.99349	.00924	z 138.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/10/2021 23:53:57 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00947**	**.1889**	**.01894**	**.02434**	**.45308**	**.00875**	**.00483**
Stddev	.00045	.0024	.00053	.00062	.01226	.00012	.00017
%RSD	4.7359	1.255	2.8191	2.5483	2.7068	1.3410	3.4950
#1	.00978	.1906	.01932	.02478	.46175	.00883	.00471
#2	.00915	.1872	.01856	.02390	.44440	.00866	.00495
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0019**	**.00431**	**.01849**	**.00494**	**.01019**	**.0009**
Stddev	.0161	.00015	.00132	.00006	.00087	.0005
%RSD	836.8	3.5910	7.1527	1.1627	8.5426	57.79
#1	.0095	.00441	.01943	.00498	.00957	.0005
#2	-.0133	.00420	.01756	.00490	.01081	.0013
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3812.5**	**2875.5**	**61521.**	**3175.3**
Stddev	5.8	5.9	213.	3.9
%RSD	.15180	.20502	.34550	.12182
#1	3808.4	2871.3	61671.	3178.1
#2	3816.6	2879.7	61371.	3172.6

Sample Name: 480-188067-D-4-A Acquired: 8/10/2021 23:57:48 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00038**	**.12753**	**-.00285**	**.12275**	**.28322**
Stddev	.00018	.02906	.00028	.00047	.00082
%RSD	48.290	22.785	9.8966	.38019	.28973
#1	-.00050	.10699	-.00305	.12242	.28380
#2	-.00025	.14808	-.00265	.12308	.28264
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**185.62**	**.00019**	**.0045**	**.00002**
Stddev	.00002	.89	.00003	.0061	.00029
%RSD	225.15	.47729	16.556	134.2	1571.2
#1	-.00000	184.99	.00022	.0002	.00023
#2	.00002	186.24	.00017	.0089	-.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00090**	**14.007**	**1.1662**	**.00357**
Stddev	.00023	.00026	.039	.0055	.00045
%RSD	105.77	29.554	.27644	.47018	12.505
#1	-.00039	.00108	13.979	1.1701	.00326
#2	-.00006	.00071	14.034	1.1624	.00389
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-A Acquired: 8/10/2021 23:57:48 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.751**	**1.0983**	**-.00690**	**11.498**	**.00014**
Stddev	.089	.0011	.00002	.051	.00005
%RSD	.23651	.10126	.30435	.44684	36.300
#1	37.814	1.0991	-.00689	11.461	.00017
#2	37.688	1.0975	-.00692	11.534	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00024**	**2.926**	**-.00035**	**-.00715**
Stddev	-----	.00010	.001	.00247	.00106
%RSD	-----	42.880	.0214	705.89	14.800
#1	z 232.1	-.00031	2.927	-.00210	-.00640
#2	z 232.0	-.00017	2.926	.00140	-.00790
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7570**	**.00012**	**.35875**	**-.0065**	**.00231**
Stddev	.0111	.00070	.00174	.0135	.00100
%RSD	.23383	560.33	.48560	208.0	43.428
#1	4.7492	-.00037	.35752	.0031	.00160
#2	4.7649	.00062	.35999	-.0161	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-A Acquired: 8/10/2021 23:57:48 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00008**	**-.00008**	**.00083**	**.0004**
Stddev	.00046	.00005	.00047	.0005
%RSD	594.87	62.304	57.378	115.8
#1	.00040	-.00005	.00116	.0008
#2	-.00025	-.00012	.00049	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3315.4**	**2701.9**	**57629.**	**3179.6**
Stddev	.3	2.5	154.	3.0
%RSD	.00950	.09261	.26741	.09503
#1	3315.2	2703.7	57738.	3177.4
#2	3315.7	2700.1	57520.	3181.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.774%	94.671%	95.505%	101.92%
Range				

Sample Name: 480-188067-D-4-ASD@5 Acquired: 8/11/2021 0:01:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00019**	**.01237**	**-.00211**	**.02139**	**.05709**
Stddev	.00011	.00275	.00420	.00017	.00008
%RSD	60.370	22.234	199.45	.77864	.14804
#1	-.00011	.01042	.00086	.02127	.05703
#2	-.00027	.01431	-.00507	.02150	.05715
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**37.101**	**-.00003**	**-.0015**	**.00013**
Stddev	.00005	.010	.00014	.0061	.00016
%RSD	209.88	.02688	536.56	402.3	125.61
#1	.00001	37.108	.00008	.0028	.00024
#2	-.00006	37.093	-.00013	-.0058	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.00023**	**2.8248**	**.05943**	**-.00068**
Stddev	.00006	.00000	.0202	.02969	.00069
%RSD	34.697	1.5503	.71661	49.958	100.32
#1	-.00012	.00023	2.8391	.03844	-.00020
#2	-.00020	.00023	2.8104	.08043	-.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-ASD@5 Acquired: 8/11/2021 0:01:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4869**	**.22186**	**-.00747**	**2.2710**	**-.00036**
Stddev	.0056	.00017	.00013	.0068	.00004
%RSD	.07465	.07535	1.7515	.29954	10.059
#1	7.4829	.22174	-.00756	2.2662	-.00034
#2	7.4908	.22198	-.00738	2.2758	-.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00063**	**.5376**	**-.00032**	**-.00505**
Stddev	-----	.00017	.0036	.00162	.00080
%RSD	-----	27.163	.6634	509.55	15.750
#1	z 165.2	.00075	.5350	-.00147	-.00561
#2	z 163.6	.00051	.5401	.00083	-.00449
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.92399**	**.00021**	**.07162**	**.0067**	**.00012**
Stddev	.01044	.00043	.00013	.0016	.00021
%RSD	1.1299	210.91	.18459	23.78	174.05
#1	.93137	.00051	.07171	.0056	-.00003
#2	.91661	-.00010	.07152	.0079	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-ASD@5 Acquired: 8/11/2021 0:01:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00003**	**.00017**	**-.0002**
Stddev	.00072	.00014	.00041	.0005
%RSD	239.10	500.82	236.18	313.0
#1	.00021	.00013	.00046	.0002
#2	-.00081	-.00007	-.00011	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3639.2**	**2819.7**	**59976.**	**3180.2**
Stddev	4.5	.3	1.	23.8
%RSD	.12240	.01129	.00203	.74917
#1	3636.0	2819.4	59977.	3163.3
#2	3642.3	2819.9	59975.	3197.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.345%	98.796%	99.395%	101.94%
Range				

Sample Name: 480-188067-D-4-APDS Acquired: 8/11/2021 0:05:27 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04892**	**10.049**	**.21223**	**.32478**	**.48892**
Stddev	.00002	.054	.00095	.00128	.00014
%RSD	.05105	.54026	.44807	.39318	.02815
#1	.04891	10.087	.21155	.32388	.48901
#2	.04894	10.010	.21290	.32568	.48882
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20882**	**189.42**	**.21052**	**-.0028**	**.19819**
Stddev	.00074	.71	.00055	.0207	.00017
%RSD	.35472	.37619	.25988	753.2	.08825
#1	.20934	189.93	.21013	-.0174	.19832
#2	.20830	188.92	.21091	.0119	.19807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19637**	**.20342**	**22.926**	**11.270**	**.19654**
Stddev	.00014	.00136	.043	.017	.00096
%RSD	.07261	.66690	.18842	.14947	.48830
#1	.19627	.20438	22.957	11.258	.19722
#2	.19648	.20246	22.896	11.282	.19586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-APDS Acquired: 8/11/2021 0:05:27 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**46.488**	**1.2658**	**.20893**	**21.114**	**.20051**
Stddev	.026	.0004	.00083	.088	.00027
%RSD	.05667	.03240	.39807	.41724	.13449
#1	46.506	1.2661	.20835	21.176	.20032
#2	46.469	1.2655	.20952	21.052	.20071
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20434**	**13.20**	**.22140**	**.19595**
Stddev	-----	.00063	.03	.00091	.00348
%RSD	-----	.30929	.2139	.41108	1.7739
#1	z 245.3	.20478	13.18	.22076	.19350
#2	z 244.9	.20389	13.22	.22205	.19841
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.145**	**.19888**	**.54768**	**.0311**	**.20678**
Stddev	.028	.00072	.00090	.0049	.00066
%RSD	.19565	.36421	.16382	15.86	.32043
#1	14.125	.19939	.54831	.0276	.20725
#2	14.164	.19837	.54705	.0345	.20631
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-APDS Acquired: 8/11/2021 0:05:27 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20441**	**.20263**	**.19747**	**.0436**
Stddev	.00017	.00065	.00105	.0004
%RSD	.08409	.32239	.53146	.9420
#1	.20454	.20309	.19672	.0433
#2	.20429	.20217	.19821	.0439
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3259.1**	**2717.5**	**57387.**	**3180.6**
Stddev	2.4	7.9	70.	7.4
%RSD	.07419	.29208	.12259	.23177
#1	3260.8	2723.1	57437.	3175.4
#2	3257.4	2711.8	57338.	3185.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.283%	95.215%	95.105%	101.96%
Range				

Sample Name: 480-188067-D-4-B MS Acquired: 8/11/2021 0:09:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04735**	**10.270**	**.21400**	**.33438**	**.50115**
Stddev	.00010	.031	.00265	.00032	.00075
%RSD	.21467	.30238	1.2365	.09482	.14903
#1	.04743	10.248	.21587	.33461	.50062
#2	.04728	10.292	.21213	.33416	.50167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20798**	**196.68**	**.21196**	**.0163**	**.19839**
Stddev	.00009	.05	.00046	.0141	.00034
%RSD	.04263	.02738	.21605	86.28	.17074
#1	.20792	196.64	.21164	.0064	.19863
#2	.20805	196.72	.21229	.0263	.19815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19529**	**.20404**	**23.322**	**11.383**	**.19658**
Stddev	.00042	.00053	.036	.048	.00060
%RSD	.21644	.25843	.15280	.42056	.30401
#1	.19499	.20367	23.297	11.349	.19701
#2	.19559	.20442	23.347	11.417	.19616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-B MS Acquired: 8/11/2021 0:09:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.766**	**1.3053**	**.21138**	**21.567**	**.20088**
Stddev	.073	.0027	.00022	.075	.00064
%RSD	.15379	.20621	.10259	.34597	.31764
#1	47.714	1.3034	.21123	21.515	.20043
#2	47.818	1.3072	.21154	21.620	.20133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20575**	**13.50**	**.22376**	**.20224**
Stddev	-----	.00036	.02	.00060	.00091
%RSD	-----	.17609	.1502	.26940	.44957
#1	z 248.1	.20600	13.52	.22418	.20160
#2	z 248.7	.20549	13.49	.22333	.20289
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.420**	**.20067**	**.56278**	**.0376**	**.20821**
Stddev	.103	.00018	.00170	.0061	.00039
%RSD	.71113	.09180	.30168	16.36	.18572
#1	14.348	.20080	.56158	.0332	.20793
#2	14.493	.20054	.56398	.0419	.20848
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-B MS Acquired: 8/11/2021 0:09:11 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20258**	**.20327**	**.19686**	**.0217**
Stddev	.00025	.00009	.00029	.0006
%RSD	.12235	.04618	.14692	2.633
#1	.20276	.20321	.19666	.0213
#2	.20241	.20334	.19707	.0221
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3247.9**	**2704.4**	**57567.**	**3194.9**
Stddev	3.3	4.6	286.	3.9
%RSD	.10027	.16934	.49689	.12124
#1	3250.2	2707.6	57769.	3197.7
#2	3245.6	2701.2	57365.	3192.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.986%	94.758%	95.403%	102.41%
Range				

Sample Name: 480-188067-D-4-C MSD Acquired: 8/11/2021 0:12:54 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04811**	**10.274**	**.21022**	**.33216**	**.49500**
Stddev	.00007	.031	.00028	.00013	.00121
%RSD	.15318	.30004	.13252	.04056	.24504
#1	.04806	10.295	.21041	.33226	.49415
#2	.04816	10.252	.21002	.33207	.49586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20715**	**196.69**	**.21036**	**-.0079**	**.19569**
Stddev	.00164	1.33	.00028	.0091	.00015
%RSD	.79000	.67603	.13519	116.0	.07823
#1	.20830	197.63	.21056	-.0143	.19580
#2	.20599	195.75	.21016	-.0014	.19558
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19449**	**.20170**	**23.444**	**11.355**	**.19847**
Stddev	.00055	.00095	.107	.038	.00059
%RSD	.28391	.47044	.45802	.33499	.29973
#1	.19488	.20103	23.519	11.382	.19889
#2	.19410	.20237	23.368	11.328	.19805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-C MSD Acquired: 8/11/2021 0:12:54 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**47.717**	**1.3005**	**.20922**	**21.553**	**.19800**
Stddev	.017	.0010	.00005	.106	.00017
%RSD	.03538	.07595	.02597	.49015	.08677
#1	47.705	1.2998	.20918	21.627	.19788
#2	47.729	1.3012	.20926	21.478	.19812
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20225**	**13.41**	**.22367**	**.19583**
Stddev	-----	.00030	.01	.00074	.00032
%RSD	-----	.14745	.1025	.33203	.16305
#1	z 246.7	.20246	13.42	.22314	.19561
#2	z 247.9	.20204	13.40	.22419	.19606
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.607**	**.19905**	**.56347**	**.0311**	**.20546**
Stddev	.088	.00052	.00394	.0015	.00071
%RSD	.60569	.26093	.69862	4.830	.34421
#1	14.669	.19868	.56625	.0300	.20496
#2	14.544	.19941	.56069	.0321	.20596
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-4-C MSD Acquired: 8/11/2021 0:12:54 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20231**	**.20068**	**.19467**	**.0172**
Stddev	.00081	.00015	.00129	.0012
%RSD	.39897	.07560	.66260	7.073
#1	.20288	.20057	.19376	.0181
#2	.20174	.20079	.19558	.0164
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3246.8**	**2697.2**	**57476.**	**3183.0**
Stddev	3.7	3.6	28.	10.6
%RSD	.11354	.13207	.04792	.33178
#1	3244.2	2694.7	57496.	3175.5
#2	3249.4	2699.8	57457.	3190.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.957%	94.507%	95.252%	102.03%
Range				

Sample Name: 480-188067-D-5-A Acquired: 8/11/2021 0:16:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.04849**	**.00067**	**.04117**	**.18614**
Stddev	.00013	.02403	.00123	.00034	.00036
%RSD	29.270	49.562	183.23	.82135	.19191
#1	.00054	.03149	.00154	.04094	.18589
#2	.00035	.06548	-.00020	.04141	.18639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**355.78**	**.00040**	**.0466**	**-.00007**
Stddev	.00006	1.55	.00001	.0390	.00010
%RSD	209.28	.43652	2.1059	83.81	156.00
#1	-.00007	356.88	.00039	.0741	.00001
#2	.00001	354.68	.00040	.0190	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00091**	**.00249**	**.01656**	**6.7884**	**.09065**
Stddev	.00010	.00028	.00305	.0271	.00052
%RSD	11.086	11.056	18.427	.39955	.57588
#1	.00084	.00269	.01440	6.7692	.09028
#2	.00098	.00230	.01872	6.8075	.09102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-5-A Acquired: 8/11/2021 0:16:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**187.08**	**.02120**	**-.00233**	**864.54**	**.01198**
Stddev	.78	.00009	.00018	.70	.00027
%RSD	.41777	.41343	7.8482	.08132	2.2714
#1	186.53	.02114	-.00246	864.05	.01217
#2	187.64	.02126	-.00220	865.04	.01179
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00002**	**57.00**	**-.00187**	**-.01307**
Stddev	-----	.00011	.03	.00001	.00565
%RSD	-----	611.88	.0496	.65020	43.244
#1	z 201.6	.00006	57.02	-.00187	-.00907
#2	z 201.8	-.00010	56.98	-.00186	-.01706
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1630**	**-.00096**	**1.3424**	**-.0124**	**.00177**
Stddev	.0012	.00097	.0019	.0044	.00016
%RSD	.01426	100.78	.14084	35.82	8.9640
#1	8.1622	-.00165	1.3410	-.0156	.00188
#2	8.1638	-.00028	1.3437	-.0093	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-5-A Acquired: 8/11/2021 0:16:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00052**	**-.00004**	**.01329**	**-.0005**
Stddev	.00116	.00029	.00002	.0025
%RSD	224.33	743.35	.12223	510.1
#1	-.00030	.00017	.01327	-.0023
#2	.00134	-.00025	.01330	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2756.2**	**2399.2**	**50309.**	**3054.5**
Stddev	1.8	1.3	73.	20.2
%RSD	.06538	.05527	.14431	.66082
#1	2755.0	2400.2	50360.	3040.2
#2	2757.5	2398.3	50258.	3068.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.970%	84.066%	83.374%	97.912%
Range				

Sample Name: 480-188067-D-6-A Acquired: 8/11/2021 0:20:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01730**	**.00319**	**1.4426**	**.59480**
Stddev	.00045	.01256	.00110	.0003	.00267
%RSD	1991.2	72.579	34.379	.02173	.44866
#1	.00034	.00842	.00396	1.4429	.59291
#2	-.00029	.02618	.00241	1.4424	.59669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00017**	**216.24**	**.00010**	**.0260**	**.00408**
Stddev	.00006	2.25	.00005	.0298	.00009
%RSD	38.549	1.0425	51.530	114.3	2.3253
#1	-.00012	217.83	.00014	.0050	.00402
#2	-.00021	214.64	.00006	.0471	.00415
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00413**	**.00065**	**26.194**	**45.298**	**.02265**
Stddev	.00025	.00001	.016	.051	.00001
%RSD	5.9872	1.6449	.06177	.11150	.03471
#1	.00396	.00066	26.182	45.333	.02264
#2	.00431	.00065	26.205	45.262	.02265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-6-A Acquired: 8/11/2021 0:20:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**73.742**	**.94489**	**-.00692**	**200.88**	**.00933**
Stddev	.081	.00038	.00005	.02	.00027
%RSD	.10980	.04046	.77886	.00804	2.9329
#1	73.799	.94462	-.00696	200.86	.00914
#2	73.685	.94516	-.00689	200.89	.00953
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00243**	**3.818**	**-.00461**	**-.00534**
Stddev	-----	.00158	.011	.00145	.00147
%RSD	-----	65.087	.2941	31.513	27.600
#1	z 333.8	.00131	3.810	-.00358	-.00430
#2	z 332.4	.00355	3.826	-.00563	-.00638
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.324**	**-.00070**	**1.4240**	**.0134**	**.00157**
Stddev	.047	.00032	.0008	.0012	.00036
%RSD	.45260	45.799	.05298	8.619	22.728
#1	10.291	-.00047	1.4245	.0126	.00132
#2	10.357	-.00093	1.4235	.0142	.00182
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-6-A Acquired: 8/11/2021 0:20:44 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00138**	**.00103**	**.0017**
Stddev	.00092	.00001	.00039	.0015
%RSD	421.88	.37141	38.183	88.27
#1	-.00087	.00137	.00075	.0028
#2	.00043	.00138	.00131	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3068.2**	**2597.4**	**54725.**	**3112.0**
Stddev	5.8	2.3	38.	4.2
%RSD	.18880	.09035	.06888	.13373
#1	3072.3	2599.0	54699.	3114.9
#2	3064.1	2595.7	54752.	3109.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	81.228%	91.008%	90.693%	99.756%
Range				

Sample Name: 480-188067-D-7-A Acquired: 8/11/2021 0:24:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.03396**	**-.00261**	**7.6623**	**.31265**
Stddev	.00039	.00600	.00050	.0276	.00123
%RSD	898.69	17.681	19.167	.35956	.39246
#1	.00032	.03821	-.00297	7.6818	.31352
#2	-.00023	.02971	-.00226	7.6428	.31178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**150.04**	**.00020**	**.0119**	**.01786**
Stddev	.00010	.41	.00001	.0021	.00000
%RSD	154.77	.27373	4.0029	17.79	.01437
#1	.00001	150.33	.00019	.0134	.01786
#2	-.00013	149.75	.00021	.0104	.01787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00188**	**.00011**	**2.1241**	**55.031**	**.12585**
Stddev	.00014	.00015	.0050	.243	.00082
%RSD	7.3716	136.24	.23516	.44138	.64884
#1	.00198	.00000	2.1206	55.202	.12643
#2	.00178	.00022	2.1276	54.859	.12528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-7-A Acquired: 8/11/2021 0:24:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**90.871**	**.22397**	**-.00733**	**324.71**	**.00306**
Stddev	.318	.00044	.00004	.76	.00011
%RSD	.34994	.19441	.49992	.23360	3.6708
#1	91.096	.22427	-.00731	325.25	.00298
#2	90.646	.22366	-.00736	324.17	.00314
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00073**	**2.020**	**-.00290**	**-.00499**
Stddev	-----	.00022	.006	.00119	.00104
%RSD	-----	29.786	.2835	40.994	20.917
#1	z 274.7	.00057	2.024	-.00374	-.00425
#2	z 275.5	.00088	2.016	-.00206	-.00573
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.1380**	**.00028**	**6.7353**	**-.0043**	**.00125**
Stddev	.0262	.00051	.0013	.0273	.00021
%RSD	.32240	184.34	.01955	640.5	16.450
#1	8.1566	-.00008	6.7362	.0150	.00139
#2	8.1195	.00064	6.7344	-.0235	.00110
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-7-A Acquired: 8/11/2021 0:24:38 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00062**	**.00013**	**.0030**
Stddev	.00076	.00048	.00049	.0002
%RSD	269.91	77.631	363.46	7.972
#1	.00081	.00096	-.00021	.0028
#2	-.00025	.00028	.00048	.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3033.0**	**2574.6**	**53721.**	**3117.4**
Stddev	3.1	5.1	32.	11.2
%RSD	.10071	.19808	.06048	.35954
#1	3030.8	2571.0	53744.	3109.5
#2	3035.1	2578.2	53698.	3125.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.296%	90.211%	89.029%	99.929%
Range				

Sample Name: 480-188067-D-8-A Acquired: 8/11/2021 0:28:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.09164**	**.00191**	**2.0779**	**.65046**
Stddev	.00031	.02722	.00246	.0009	.00125
%RSD	254.84	29.702	128.53	.04453	.19153
#1	.00010	.11088	.00017	2.0786	.65134
#2	-.00034	.07239	.00366	2.0773	.64958
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**176.69**	**.00039**	**-.0082**	**.00696**
Stddev	.00005	.80	.00009	.0101	.00003
%RSD	589.63	.45459	22.776	124.2	.49676
#1	-.00004	176.12	.00046	-.0153	.00699
#2	.00002	177.25	.00033	-.0010	.00694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00626**	**.00012**	**32.215**	**72.739**	**.03443**
Stddev	.00006	.00039	.151	.051	.00042
%RSD	1.0020	312.91	.46847	.06986	1.2288
#1	.00622	-.00015	32.108	72.703	.03472
#2	.00630	.00040	32.321	72.775	.03413
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-8-A Acquired: 8/11/2021 0:28:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**85.881**	**.51617**	**-.00757**	**299.30**	**.01594**
Stddev	.052	.00017	.00001	.94	.00026
%RSD	.06064	.03368	.10095	.31365	1.6143
#1	85.844	.51630	-.00757	298.63	.01612
#2	85.917	.51605	-.00756	299.96	.01575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00167**	**5.939**	**-.00197**	**-.00793**
Stddev	-----	.00078	.001	.00168	.00359
%RSD	-----	46.734	.0109	85.407	45.274
#1	z 360.9	.00112	5.938	-.00078	-.01047
#2	z 360.5	.00223	5.939	-.00316	-.00539
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1186**	**.00102**	**1.3112**	**.0275**	**.00349**
Stddev	.1104	.00014	.0014	.0084	.00022
%RSD	1.2111	13.595	.10569	30.48	6.3380
#1	9.0405	.00092	1.3102	.0335	.00364
#2	9.1967	.00112	1.3121	.0216	.00333
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-8-A Acquired: 8/11/2021 0:28:41 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00056**	**.00256**	**.00250**	**.0030**
Stddev	.00121	.00024	.00043	.0001
%RSD	215.25	9.2092	17.306	3.936
#1	-.00142	.00239	.00220	.0029
#2	.00029	.00272	.00281	.0031
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3012.8**	**2571.2**	**53842.**	**3121.3**
Stddev	1.4	4.1	43.	18.5
%RSD	.04484	.15981	.08013	.59164
#1	3011.8	2568.3	53811.	3134.3
#2	3013.8	2574.1	53872.	3108.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.762%	90.090%	89.229%	100.05%
Range				

Sample Name: CCV-6603765 Acquired: 8/11/2021 0:32:38 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95690**	**48.877**	**.98443**	**1.0127**	**.96257**	**.97811**	**49.324**	**1.0006**
Stddev	.00566	.281	.00073	.0029	.00324	.00355	.054	.0012
%RSD	.59161	.57566	.07439	.28539	.33612	.36269	.10916	.12363
#1	.95290	48.678	.98391	1.0106	.96028	.97561	49.286	.99974
#2	.96090	49.075	.98495	1.0147	.96486	.98062	49.363	1.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9557**	**.97556**	**.98123**	**.98659**	**47.932**	**47.830**	**.91834**	**47.876**
Stddev	.0003	.00038	.00225	.00355	.081	.097	.00509	.178
%RSD	.0303	.03889	.22880	.35995	.16890	.20327	.55396	.37142
#1	.9555	.97583	.97964	.98408	47.874	47.761	.91474	47.751
#2	.9559	.97529	.98282	.98910	47.989	47.899	.92193	48.002
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97001**	**1.0119**	**47.651**	**.98278**	z *****	**.98328**	**24.82**	**.99052**
Stddev	.00446	.0040	.140	.00065	-----	.00059	.00	.00023
%RSD	.46008	.39404	.29354	.06625	-----	.05977	.0183	.02290
#1	.96686	1.0091	47.552	.98324	z 9010.	.98287	24.82	.99068
#2	.97317	1.0147	47.750	.98232	z 8987.	.98370	24.83	.99036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/11/2021 0:32:38 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98612	9.6537	.97869	.96462	.9480	.98738	.98505	.99017
Stddev	.00089	.0634	.00307	.00292	.0106	.00143	.00085	.00245
%RSD	.09055	.65718	.31386	.30313	1.116	.14492	.08667	.24746
#1	.98549	9.6089	.98087	.96255	.9555	.98636	.98444	.98844
#2	.98675	9.6986	.97652	.96668	.9405	.98839	.98565	.99190
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0017	.9165
Stddev	.0023	.0086
%RSD	.22555	.9405
#1	1.0001	.9104
#2	1.0033	.9226
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3283.9	2770.0	57541.	3136.5
Stddev	2.7	3.6	169.	9.8
%RSD	.08348	.13111	.29386	.31103
#1	3285.8	2772.6	57661.	3143.4
#2	3282.0	2767.5	57421.	3129.6

Sample Name: CCB-6597963 Acquired: 8/11/2021 0:36:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.02452**	**-.00079**	**.00097**	**.00009**	**-.00003**	**-.00218**	**-.00005**
Stddev	.00027	.00386	.00018	.00066	.00002	.00011	.00259	.00013
%RSD	507.95	15.760	23.303	68.104	19.534	354.61	118.63	267.97
#1	.00014	.02725	-.00092	.00144	.00007	-.00011	-.00401	-.00014
#2	-.00024	.02179	-.00066	.00051	.00010	.00005	-.00035	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0071**	**.00011**	**-.00012**	**.00007**	**.00098**	**-.11112**	**-.00033**	**.00242**
Stddev	.0138	.00001	.00009	.00021	.00327	.00385	.00047	.00298
%RSD	194.7	7.8868	69.901	290.05	334.87	3.4666	142.37	122.96
#1	.0027	.00010	-.00019	-.00007	-.00134	-.10839	.00000	.00032
#2	-.0168	.00011	-.00006	.00022	.00329	-.11384	-.00066	.00452
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00006**	**.00092**	**.02876**	**-.00012**	z *****	**.00025**	**-.0006**	**-.00012**
Stddev	.00000	.00142	.00022	.00019	-----	.00058	.0025	.00171
%RSD	7.4106	154.54	.77081	160.87	-----	236.61	454.7	1476.2
#1	.00005	.00193	.02860	-.00025	z 139.8	.00066	-.0023	.00109
#2	.00006	-.00009	.02892	.00002	z 139.9	-.00017	.0012	-.00133
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/11/2021 0:36:15 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00610	.00423	.00038	.00002	.0097	.00016	-.00018	-.00030
Stddev	.00271	.00429	.00022	.00001	.0078	.00020	.00061	.00049
%RSD	44.414	101.50	57.511	36.991	80.39	122.24	346.01	162.45
#1	.00418	.00119	.00022	.00003	.0042	.00002	.00026	-.00065
#2	.00801	.00727	.00053	.00002	.0152	.00030	-.00061	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00004	.0015
Stddev	.00007	.0009
%RSD	147.04	59.33
#1	-.00000	.0009
#2	.00009	.0021
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3837.3	2882.0	61326.	3173.6
Stddev	.5	4.2	67.	5.7
%RSD	.01337	.14518	.10860	.17805
#1	3836.9	2879.0	61279.	3169.6
#2	3837.6	2884.9	61373.	3177.6

Sample Name: CCVL-6603764 Acquired: 8/11/2021 0:40:06 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00565**	**.21323**	**.01276**	**.01891**	**.00212**	**.00199**	**.49180**
Stddev	.00041	.01968	.00081	.00005	.00002	.00006	.00341
%RSD	7.3301	9.2273	6.3438	.28611	1.0027	2.9614	.69356
#1	.00594	.19931	.01334	.01894	.00210	.00203	.49421
#2	.00536	.22714	.01219	.01887	.00213	.00194	.48939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00208**	**.0128**	**.00380**	**.00401**	**.00931**	**.04747**	W **.34672**
Stddev	.00017	.0219	.00006	.00016	.00019	.00237	.03060
%RSD	8.3124	170.3	1.6320	3.9609	2.0769	4.9965	8.8251
#1	.00195	.0283	.00384	.00389	.00945	.04915	.36836
#2	.00220	-.0026	.00375	.00412	.00917	.04579	.32509
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02641**	**.19441**	**.00315**	F **.00472**	**.99673**	**.00962**	z *****
Stddev	.00032	.00135	.00001	.00011	.00339	.00010	-----
%RSD	1.2103	.69666	.37116	2.2835	.33969	1.0326	-----
#1	.02663	.19537	.00316	.00480	.99434	.00955	z 139.7
#2	.02618	.19345	.00315	.00465	.99913	.00969	z 138.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/11/2021 0:40:06 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00953**	**.1913**	**.01986**	**.02310**	**.45772**	**.00869**	**.00479**
Stddev	.00075	.0053	.00019	.00046	.01930	.00044	.00002
%RSD	7.8357	2.778	.95488	1.9734	4.2175	5.0465	.49925
#1	.01006	.1950	.01972	.02343	.47137	.00838	.00481
#2	.00900	.1875	.01999	.02278	.44407	.00900	.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**.00443**	**.01812**	**.00475**	**.00960**	**-.0001**
Stddev	.0165	.00008	.00034	.00025	.00035	.0009
%RSD	298.3	1.7669	1.8753	5.2696	3.6136	1040.
#1	.0172	.00437	.01836	.00493	.00984	.0006
#2	-.0061	.00448	.01788	.00458	.00935	-.0007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3818.7**	**2889.2**	**61400.**	**3172.0**
Stddev	1.6	.0	111.	10.1
%RSD	.04149	.00083	.18042	.31740
#1	3817.6	2889.2	61478.	3164.9
#2	3819.8	2889.2	61322.	3179.2

Sample Name: 480-188067-D-9-A Acquired: 8/11/2021 0:43:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.05290**	**-.00018**	**.55146**	**.00757**
Stddev	.00013	.00694	.00027	.00054	.00000
%RSD	34.342	13.114	145.41	.09874	.02209
#1	.00029	.05781	.00001	.55185	.00756
#2	.00048	.04800	-.00037	.55108	.00757
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**38.999**	**.00014**	**.0165**	**-.00001**
Stddev	.00000	.187	.00005	.0055	.00010
%RSD	14.498	.48075	37.813	32.95	725.79
#1	-.00003	38.866	.00010	.0204	.00006
#2	-.00003	39.131	.00018	.0127	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.00032**	**.02104**	**3.6865**	**.05506**
Stddev	.00003	.00043	.00271	.0066	.00060
%RSD	4.1451	135.74	12.890	.17813	1.0958
#1	.00066	.00062	.02296	3.6911	.05549
#2	.00070	.00001	.01912	3.6818	.05464
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-9-A Acquired: 8/11/2021 0:43:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**29.622**	**.00251**	**-.00679**	**53.690**	**.00030**
Stddev	.013	.00001	.00000	.018	.00019
%RSD	.04249	.30492	.01939	.03407	61.025
#1	29.614	.00250	-.00679	53.677	.00017
#2	29.631	.00251	-.00679	53.703	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00143**	**37.52**	**-.00112**	**-.00096**
Stddev	-----	.00013	.07	.00065	.00185
%RSD	-----	9.0161	.1851	58.538	191.46
#1	z 162.5	.00152	37.57	-.00065	-.00227
#2	z 162.2	.00134	37.47	-.00158	.00034
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1609**	**-.00051**	**4.9255**	**-.0119**	**.00014**
Stddev	.0117	.00022	.0555	.0012	.00025
%RSD	.22757	42.834	1.1268	9.795	177.56
#1	5.1526	-.00035	4.8862	-.0127	-.00004
#2	5.1692	-.00066	4.9647	-.0111	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-9-A Acquired: 8/11/2021 0:43:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00021**	**.00155**	**.0002**
Stddev	.00101	.00012	.00063	.0001
%RSD	299.94	55.258	40.429	46.44
#1	.00038	-.00029	.00199	.0001
#2	-.00105	-.00013	.00110	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3438.9**	**2755.5**	**58309.**	**3189.1**
Stddev	4.3	3.7	15.	4.5
%RSD	.12363	.13519	.02643	.14223
#1	3435.9	2752.8	58320.	3192.3
#2	3441.9	2758.1	58298.	3185.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.042%	96.547%	96.632%	102.23%
Range				

Sample Name: 480-188067-D-10-A Acquired: 8/11/2021 0:47:51 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00043**	**.05820**	**.00397**	**.06130**	**.22082**
Stddev	.00021	.01362	.00116	.00021	.00061
%RSD	49.521	23.394	29.209	.34183	.27471
#1	.00058	.06783	.00479	.06115	.22039
#2	.00028	.04858	.00315	.06144	.22125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**225.12**	**.00025**	**.0257**	**.00098**
Stddev	.00018	2.88	.00001	.0080	.00007
%RSD	864.38	1.2791	5.0573	31.21	6.7146
#1	.00011	227.16	.00024	.0314	.00103
#2	-.00015	223.08	.00026	.0201	.00093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00062**	**20.344**	**.55706**	**.01294**
Stddev	.00008	.00077	.005	.00507	.00035
%RSD	82.794	125.06	.02310	.91026	2.6790
#1	.00004	.00116	20.347	.55347	.01318
#2	.00015	.00007	20.341	.56065	.01269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-10-A Acquired: 8/11/2021 0:47:51 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**72.277**	**7.5787**	**-.00622**	**43.607**	**.00163**
Stddev	.240	.0257	.00008	.129	.00019
%RSD	.33258	.33915	1.2538	.29612	11.645
#1	72.107	7.5605	-.00617	43.698	.00150
#2	72.447	7.5969	-.00628	43.515	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00304**	**1.542**	**-.00315**	**-.00256**
Stddev	-----	.00011	.007	.00089	.00193
%RSD	-----	3.4889	.4327	28.318	75.273
#1	z 243.5	.00296	1.537	-.00252	-.00120
#2	z 243.6	.00311	1.546	-.00378	-.00392
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1984**	**-.00073**	**.68133**	**.0204**	**-.00024**
Stddev	.0129	.00036	.00264	.0112	.00017
%RSD	.20861	49.578	.38705	54.82	70.657
#1	6.2075	-.00048	.68319	.0283	-.00035
#2	6.1892	-.00099	.67946	.0125	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-10-A Acquired: 8/11/2021 0:47:51 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00177**	**.00010**	**.00317**	**.0012**
Stddev	.00143	.00009	.00059	.0009
%RSD	80.305	83.188	18.646	75.28
#1	-.00278	.00017	.00275	.0006
#2	-.00077	.00004	.00359	.0019
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3199.5**	**2652.7**	**56424.**	**3173.8**
Stddev	1.8	.9	265.	7.9
%RSD	.05761	.03552	.46948	.24921
#1	3200.8	2653.4	56611.	3168.2
#2	3198.2	2652.1	56237.	3179.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.704%	92.947%	93.508%	101.74%
Range				

Sample Name: 480-188067-D-11-A Acquired: 8/11/2021 0:51:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**.06097**	**.00007**	**7.1170**	**.02882**
Stddev	.00051	.00788	.00418	.0027	.00004
%RSD	193.12	12.917	5619.6	.03723	.13780
#1	-.00062	.06654	.00303	7.1152	.02885
#2	.00010	.05540	-.00288	7.1189	.02879
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**203.46**	**.00019**	**.0272**	**-.00037**
Stddev	.00008	.57	.00023	.0188	.00023
%RSD	448.13	.27976	118.96	69.22	61.781
#1	-.00007	203.06	.00003	.0405	-.00053
#2	.00004	203.86	.00035	.0139	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.00023**	**.06897**	**36.465**	**9.9092**
Stddev	.00053	.00036	.00119	.022	.0303
%RSD	7495.7	152.17	1.7283	.05915	.30563
#1	-.00038	-.00002	.06981	36.450	9.8878
#2	.00037	.00049	.06813	36.481	9.9306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-11-A Acquired: 8/11/2021 0:51:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**156.90**	**.00554**	**-.00785**	F **2416.6**	**-.00029**
Stddev	.13	.00003	.00017	4.9	.00012
%RSD	.08529	.50709	2.2050	.20409	40.168
#1	156.81	.00552	-.00773	2413.1	-.00021
#2	157.00	.00556	-.00797	2420.1	-.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00092**	F **107.0**	**.00036**	**-.01259**
Stddev	-----	.00213	.1	.00209	.00032
%RSD	-----	230.48	.0711	578.26	2.5717
#1	z 207.1	.00058	106.9	-.00112	-.01236
#2	z 207.6	-.00243	107.0	.00184	-.01282
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1702**	**.00043**	F **10.982**	**.0033**	**.00066**
Stddev	.0006	.00048	.024	.0059	.00032
%RSD	.01991	113.38	.22248	178.6	48.973
#1	3.1706	.00077	10.965	-.0009	.00089
#2	3.1697	.00008	10.999	.0075	.00043
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-188067-D-11-A Acquired: 8/11/2021 0:51:47 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00173**	**-.00077**	**.00279**	**.0006**
Stddev	.00204	.00005	.00098	.0006
%RSD	117.97	6.0782	35.309	104.9
#1	.00317	-.00080	.00209	.0011
#2	.00029	-.00073	.00348	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2549.6**	**2304.0**	**46641.**	**2937.3**
Stddev	1.8	3.2	135.	.4
%RSD	.06882	.13857	.28858	.01450
#1	2550.8	2306.3	46737.	2937.6
#2	2548.3	2301.8	46546.	2937.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	67.498%	80.730%	77.296%	94.156%
Range				

Sample Name: 480-188067-D-12-A Acquired: 8/11/2021 0:55:45 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00050**	**.00437**	**.00545**	**2.9166**	**.65179**
Stddev	.00034	.01373	.00236	.0057	.00202
%RSD	67.954	314.19	43.295	.19641	.30941
#1	-.00026	-.00534	.00378	2.9125	.65036
#2	-.00075	.01408	.00711	2.9206	.65322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**156.96**	**.00024**	**.0117**	**.00619**
Stddev	.00000	.57	.00039	.0107	.00006
%RSD	5.5808	.36094	163.02	91.48	1.0198
#1	-.00006	156.56	.00052	.0193	.00623
#2	-.00005	157.36	-.00004	.0041	.00614
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00150**	**.00022**	**28.707**	**74.145**	**.02920**
Stddev	.00043	.00022	.088	.009	.00065
%RSD	28.949	103.81	.30485	.01197	2.2111
#1	.00180	.00006	28.645	74.138	.02966
#2	.00119	.00037	28.769	74.151	.02874
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-12-A Acquired: 8/11/2021 0:55:45 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**129.54**	**.38786**	**-.00714**	**210.22**	**.00495**
Stddev	.20	.00090	.00035	.22	.00001
%RSD	.15212	.23220	4.8910	.10685	.19799
#1	129.40	.38723	-.00739	210.06	.00495
#2	129.68	.38850	-.00690	210.38	.00494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00088**	**3.336**	**-.00435**	**-.00739**
Stddev	-----	.00010	.005	.00133	.00175
%RSD	-----	11.031	.1381	30.623	23.663
#1	z 264.0	.00094	3.333	-.00529	-.00616
#2	z 264.8	.00081	3.340	-.00341	-.00863
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.177**	**-.00024**	**2.0389**	**.0160**	**.00107**
Stddev	.039	.00091	.0012	.0057	.00007
%RSD	.38289	384.87	.05737	35.99	6.6894
#1	10.149	-.00088	2.0398	.0119	.00102
#2	10.205	.00041	2.0381	.0200	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-12-A Acquired: 8/11/2021 0:55:45 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00191**	**-.00004**	**.00140**	**.0027**
Stddev	.00024	.00020	.00020	.0002
%RSD	12.520	512.06	14.461	5.556
#1	-.00174	-.00018	.00125	.0028
#2	-.00207	.00010	.00154	.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3045.7**	**2574.9**	**54306.**	**3126.1**
Stddev	.1	2.8	.	17.8
%RSD	.00308	.10984	.00079	.56819
#1	3045.6	2576.9	54306.	3138.7
#2	3045.8	2572.9	54305.	3113.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	80.633%	90.222%	89.998%	100.21%
Range				

Sample Name: 480-188067-D-13-A Acquired: 8/11/2021 0:59:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00063**	**.06906**	**-.00211**	**9.7903**	**.13728**
Stddev	.00024	.02418	.00308	.0006	.00008
%RSD	37.260	35.018	145.58	.00605	.06008
#1	-.00080	.05196	-.00429	9.7898	.13733
#2	-.00047	.08616	.00006	9.7907	.13722
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**120.86**	**.00012**	**-.0135**	**.00074**
Stddev	.00004	.60	.00005	.0343	.00016
%RSD	52.041	.49693	37.217	254.4	21.439
#1	.00009	120.44	.00016	.0108	.00085
#2	.00004	121.28	.00009	-.0377	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00087**	**.00047**	**1.0637**	**44.743**	**.30492**
Stddev	.00017	.00024	.0022	.159	.00254
%RSD	18.962	51.332	.20433	.35593	.83393
#1	.00099	.00064	1.0622	44.630	.30312
#2	.00076	.00030	1.0653	44.855	.30672
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-13-A Acquired: 8/11/2021 0:59:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**70.808**	**.18850**	**-.00763**	**191.59**	**.00104**
Stddev	.271	.00087	.00017	.59	.00010
%RSD	.38292	.46399	2.2677	.30790	9.3594
#1	70.616	.18789	-.00776	191.17	.00111
#2	70.999	.18912	-.00751	192.01	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00161**	**9.105**	**-.00116**	**-.00869**
Stddev	-----	.00074	.003	.00101	.00257
%RSD	-----	45.784	.0308	86.921	29.596
#1	z 221.9	.00213	9.103	-.00187	-.00687
#2	z 223.2	.00109	9.107	-.00045	-.01051
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6320**	**-.00040**	**5.4697**	**.0023**	**.00099**
Stddev	.0201	.00029	.0444	.0034	.00013
%RSD	.30374	72.438	.81223	147.2	13.571
#1	6.6178	-.00061	5.5011	-.0001	.00108
#2	6.6462	-.00020	5.4383	.0047	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-13-A Acquired: 8/11/2021 0:59:36 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00034**	**.00003**	**.00122**	**.0016**
Stddev	.00120	.00001	.00050	.0003
%RSD	353.84	33.518	41.089	18.31
#1	-.00119	.00003	.00087	.0014
#2	.00051	.00002	.00158	.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3143.3**	**2624.5**	**54884.**	**3116.6**
Stddev	2.4	1.3	77.	25.2
%RSD	.07764	.05109	.14033	.80821
#1	3141.6	2623.6	54830.	3134.4
#2	3145.1	2625.5	54939.	3098.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.218%	91.959%	90.957%	99.903%
Range				

Sample Name: 480-188067-D-14-A Acquired: 8/11/2021 1:03:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**1.4623**	**-.00238**	**.30642**	**.07003**
Stddev	.00058	.0269	.00006	.00070	.00003
%RSD	378.53	1.8389	2.5404	.22895	.04726
#1	.00056	1.4813	-.00242	.30692	.07006
#2	-.00026	1.4433	-.00233	.30593	.07001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**73.098**	**.00024**	**.0108**	**.00050**
Stddev	.00010	.235	.00005	.0201	.00000
%RSD	1424.3	.32171	22.728	186.1	.36898
#1	-.00008	72.931	.00020	.0250	.00050
#2	.00006	73.264	.00028	-.0034	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00211**	**.00019**	**1.1101**	**1.7901**	**.02208**
Stddev	.00011	.00020	.0082	.0129	.00014
%RSD	5.2378	105.92	.74251	.71953	.64552
#1	.00219	.00033	1.1042	1.7992	.02198
#2	.00203	.00005	1.1159	1.7810	.02218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-14-A Acquired: 8/11/2021 1:03:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**41.098**	**.04730**	**-.00575**	**53.514**	**.00145**
Stddev	.065	.00005	.00005	.092	.00016
%RSD	.15920	.10949	.93706	.17282	11.163
#1	41.052	.04727	-.00572	53.448	.00157
#2	41.145	.04734	-.00579	53.579	.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00275**	**38.83**	**-.00088**	**-.00486**
Stddev	-----	.00077	.03	.00104	.00044
%RSD	-----	28.039	.0891	118.32	8.9555
#1	z 194.9	.00220	38.81	-.00161	-.00455
#2	z 194.7	.00329	38.85	-.00014	-.00517
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4676**	**-.00054**	F **11.911**	**-.0055**	**.05101**
Stddev	.0192	.00020	.113	.0012	.00417
%RSD	.20311	36.879	.94833	21.29	8.1718
#1	9.4540	-.00069	11.831	-.0063	.05396
#2	9.4812	-.00040	11.991	-.0047	.04806
Check ?	Chk Pass	Chk Pass	Chk Fail	None	Chk Pass
High Limit			9.0000		
Low Limit			-.00500		

Sample Name: 480-188067-D-14-A Acquired: 8/11/2021 1:03:28 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00246**	**.00873**	**.0002**
Stddev	.00041	.00004	.00017	.0004
%RSD	197.63	1.7370	1.8960	229.3
#1	-.00008	.00249	.00885	-.0001
#2	.00050	.00243	.00861	.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3358.0**	**2726.4**	**57697.**	**3172.8**
Stddev	4.5	3.2	83.	24.8
%RSD	.13315	.11658	.14426	.78245
#1	3361.2	2728.7	57756.	3190.3
#2	3354.9	2724.2	57639.	3155.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.902%	95.530%	95.619%	101.70%
Range				

Sample Name: 480-188067-D-15-A Acquired: 8/11/2021 1:07:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**.04855**	**.01304**	**.96852**	**.20622**
Stddev	.00056	.01486	.00104	.00195	.00014
%RSD	237.74	30.616	7.9980	.20105	.06928
#1	-.00063	.05906	.01230	.96989	.20632
#2	.00016	.03804	.01378	.96714	.20612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**151.62**	**.00036**	**.0026**	**.00140**
Stddev	.00000	.00	.00002	.0041	.00021
%RSD	345.38	.00075	4.4712	153.8	14.798
#1	-.00000	151.62	.00037	.0055	.00154
#2	.00000	151.62	.00034	-.0002	.00125
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**-.00007**	**43.552**	**11.981**	**.01518**
Stddev	.00035	.00017	.108	.045	.00067
%RSD	60.087	242.23	.24791	.37873	4.3906
#1	.00033	-.00019	43.475	11.949	.01565
#2	.00082	.00005	43.628	12.014	.01471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-15-A Acquired: 8/11/2021 1:07:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**37.206**	**.80634**	**-.00485**	**70.429**	**.00692**
Stddev	.078	.00172	.00025	.045	.00004
%RSD	.21056	.21286	5.2522	.06342	.50872
#1	37.150	.80513	-.00467	70.398	.00694
#2	37.261	.80755	-.00503	70.461	.00689
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00235**	**.7283**	**-.00273**	**-.00450**
Stddev	-----	.00019	.0004	.00127	.00028
%RSD	-----	8.1113	.0541	46.517	6.2994
#1	z 294.6	.00248	.7286	-.00363	-.00470
#2	z 295.0	.00221	.7280	-.00183	-.00430
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2529**	**-.00006**	**.77160**	**.0345**	**.00068**
Stddev	.0037	.00018	.00161	.0007	.00028
%RSD	.04434	327.06	.20872	2.078	41.209
#1	8.2503	.00007	.77046	.0350	.00088
#2	8.2555	-.00018	.77274	.0340	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-15-A Acquired: 8/11/2021 1:07:20 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00101**	**.00270**	**.0025**
Stddev	.00114	.00050	.00016	.0013
%RSD	2952.9	48.948	6.0581	50.63
#1	.00077	.00136	.00281	.0034
#2	-.00084	.00066	.00258	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3238.3**	**2690.8**	**57196.**	**3174.1**
Stddev	3.2	1.4	33.	4.9
%RSD	.09792	.05130	.05700	.15505
#1	3240.5	2691.8	57219.	3177.6
#2	3236.0	2689.8	57172.	3170.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.731%	94.282%	94.787%	101.75%
Range				

Sample Name: 480-188067-D-16-A Acquired: 8/11/2021 1:11:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00036**	**.05461**	**-.00026**	**4.4462**	**.97209**
Stddev	.00005	.01709	.00081	.0028	.00048
%RSD	13.820	31.304	311.04	.06348	.04947
#1	-.00033	.06669	-.00083	4.4442	.97243
#2	-.00040	.04252	.00031	4.4482	.97175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**169.23**	**.00023**	**.0020**	**.00860**
Stddev	.00007	.13	.00007	.0256	.00007
%RSD	143.37	.07481	31.999	1298.	.76824
#1	-.00009	169.14	.00028	-.0161	.00856
#2	.00000	169.32	.00018	.0201	.00865
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00528**	**.00183**	**1.1254**	**119.46**	**.07804**
Stddev	.00006	.00019	.0005	.18	.00052
%RSD	1.1501	10.195	.04768	.14867	.66622
#1	.00532	.00196	1.1250	119.58	.07840
#2	.00523	.00169	1.1257	119.33	.07767
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-16-A Acquired: 8/11/2021 1:11:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**131.77**	**.28930**	**-.00751**	**417.24**	**.00867**
Stddev	.28	.00026	.00023	1.13	.00020
%RSD	.20934	.08821	3.0868	.27083	2.3436
#1	131.97	.28948	-.00734	416.44	.00852
#2	131.58	.28912	-.00767	418.03	.00881
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00139**	**8.498**	**-.00252**	**-.01221**
Stddev	-----	.00152	.013	.00114	.00261
%RSD	-----	109.42	.1465	45.195	21.392
#1	z 243.3	.00031	8.507	-.00332	-.01406
#2	z 243.6	.00246	8.489	-.00171	-.01036
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.196**	**.00004**	**2.1662**	**.0005**	**.00292**
Stddev	.039	.00018	.0009	.0150	.00005
%RSD	.24156	490.94	.04330	3186.	1.8519
#1	16.169	.00017	2.1655	-.0102	.00289
#2	16.224	-.00009	2.1669	.0111	.00296
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-16-A Acquired: 8/11/2021 1:11:06 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00038**	**-.00013**	**.00978**	**.0011**
Stddev	.00044	.00043	.00079	.0015
%RSD	113.74	336.14	8.1114	128.6
#1	-.00069	.00018	.00922	.0022
#2	-.00008	-.00043	.01035	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2946.1**	**2526.7**	**52851.**	**3097.8**
Stddev	6.8	1.5	180.	13.3
%RSD	.23111	.05869	.34097	.42964
#1	2950.9	2527.8	52723.	3107.2
#2	2941.3	2525.7	52978.	3088.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.996%	88.532%	87.587%	99.300%
Range				

Sample Name: 480-188067-D-17-A Acquired: 8/11/2021 1:15:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00070**	**.93585**	**.00356**	**1.5856**	**.51808**
Stddev	.00012	.03029	.00010	.0019	.00067
%RSD	16.998	3.2361	2.9082	.11907	.12942
#1	-.00061	.91444	.00364	1.5869	.51760
#2	-.00078	.95727	.00349	1.5843	.51855
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**100.28**	**.00030**	**.0029**	**.00358**
Stddev	.00002	.38	.00006	.0202	.00023
%RSD	23.879	.37740	21.438	699.9	6.4226
#1	.00009	100.01	.00025	.0172	.00342
#2	.00007	100.55	.00035	-.0114	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00894**	**.00622**	**2.9834**	**78.652**	**.03632**
Stddev	.00001	.00002	.0210	.269	.00017
%RSD	.05900	.36315	.70319	.34210	.46954
#1	.00895	.00620	2.9686	78.461	.03644
#2	.00894	.00623	2.9982	78.842	.03620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-17-A Acquired: 8/11/2021 1:15:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**55.458**	**.10174**	**-.00549**	**272.74**	**.00921**
Stddev	.036	.00002	.00020	1.21	.00037
%RSD	.06419	.01810	3.6951	.44525	4.0172
#1	55.433	.10172	-.00535	271.88	.00947
#2	55.483	.10175	-.00563	273.60	.00895
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00671**	**25.10**	**.00289**	**-.00257**
Stddev	-----	.00113	.05	.00014	.00097
%RSD	-----	16.777	.2089	4.9803	37.729
#1	z 266.9	.00751	25.14	.00278	-.00188
#2	z 265.9	.00591	25.06	.00299	-.00325
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.774**	**.00124**	**.98709**	**.0048**	**.03205**
Stddev	.055	.00038	.00489	.0011	.00036
%RSD	.50921	30.648	.49525	23.78	1.1341
#1	10.735	.00151	.98364	.0056	.03180
#2	10.813	.00097	.99055	.0040	.03231
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-17-A Acquired: 8/11/2021 1:15:03 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00133**	**.00433**	**.02402**	**.0028**
Stddev	.00091	.00007	.00003	.0014
%RSD	68.095	1.6191	.14116	49.59
#1	.00197	.00429	.02405	.0037
#2	.00069	.00438	.02400	.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3108.7**	**2627.3**	**54749.**	**3134.9**
Stddev	3.0	1.2	39.	11.5
%RSD	.09529	.04645	.07122	.36819
#1	3110.8	2628.2	54777.	3143.1
#2	3106.6	2626.5	54722.	3126.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.301%	92.057%	90.733%	100.49%
Range				

Sample Name: CCV-6603765 Acquired: 8/11/2021 1:19:00 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95562**	**49.136**	**.98409**	**1.0103**	**.97042**	**.98545**	**49.671**	**.99782**
Stddev	.00200	.049	.00235	.0017	.00137	.00028	.152	.00068
%RSD	.20891	.10001	.23836	.17002	.14160	.02875	.30665	.06843
#1	.95703	49.171	.98574	1.0116	.96944	.98565	49.778	.99831
#2	.95421	49.102	.98243	1.0091	.97139	.98525	49.563	.99734
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.004**	**.97869**	**.98305**	**.98656**	**48.421**	**47.920**	**.92361**	**48.000**
Stddev	.000	.00002	.00150	.00333	.102	.113	.00149	.076
%RSD	.0174	.00233	.15274	.33766	.21012	.23649	.16111	.15779
#1	1.004	.97871	.98411	.98891	48.493	48.000	.92256	48.053
#2	1.004	.97868	.98199	.98420	48.349	47.840	.92466	47.946
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97326**	**1.0113**	**47.904**	**.98436**	z *****	**.98872**	**24.85**	**.98889**
Stddev	.00089	.0037	.068	.00119	-----	.00253	.02	.00444
%RSD	.09094	.36686	.14186	.12054	-----	.25605	.0920	.44867
#1	.97389	1.0087	47.952	.98520	z 9059.	.98693	24.87	.99203
#2	.97263	1.0140	47.856	.98352	z 9056.	.99051	24.84	.98575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/11/2021 1:19:00 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.98499	9.7365	.98433	.97138	.9753	.98677	.98648	.99132
Stddev	.00282	.0306	.00127	.00013	.0092	.00033	.00094	.00037
%RSD	.28636	.31386	.12868	.01328	.9448	.03343	.09482	.03718
#1	.98698	9.7581	.98343	.97147	.9688	.98701	.98582	.99158
#2	.98299	9.7149	.98523	.97129	.9818	.98654	.98714	.99106
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0097	.9503
Stddev	.0030	.0087
%RSD	.29342	.9159
#1	1.0076	.9442
#2	1.0118	.9565
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3291.0	2782.3	57433.	3120.9
Stddev	.1	2.5	88.	20.2
%RSD	.00340	.08907	.15316	.64684
#1	3290.9	2780.6	57371.	3106.6
#2	3291.0	2784.1	57495.	3135.2

Sample Name: CCB-6597963 Acquired: 8/11/2021 1:22:36 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.01336**	**.00200**	**.00233**	**.00008**	**-.00003**	**-.00127**	**.00001**
Stddev	.00069	.01446	.00177	.00013	.00001	.00008	.00308	.00013
%RSD	342.78	108.25	88.155	5.4245	10.008	256.54	242.06	2492.0
#1	.00029	.02359	.00325	.00224	.00008	.00003	-.00345	-.00009
#2	-.00069	.00313	.00075	.00242	.00007	-.00009	.00090	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0025**	**.00008**	**.00001**	**-.00000**	**.00986**	**-.10085**	**-.00018**	**-.00012**
Stddev	.0353	.00001	.00029	.00010	.00196	.00959	.00144	.00206
%RSD	1410.	12.479	3345.6	2192.8	19.900	9.5106	824.30	1659.0
#1	.0275	.00008	-.00020	-.00007	.00848	-.09407	-.00120	.00133
#2	-.0225	.00009	.00021	.00007	.01125	-.10763	.00085	-.00158
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00002**	**.00069**	**.04542**	**-.00009**	z *****	**.00103**	**.0029**	**-.00093**
Stddev	.00005	.00144	.00207	.00003	-----	.00104	.0013	.00180
%RSD	220.49	207.60	4.5603	33.921	-----	100.44	43.96	194.02
#1	-.00005	.00171	.04689	-.00011	z 139.7	.00030	.0020	.00035
#2	.00001	-.00032	.04396	-.00007	z 139.9	.00176	.0038	-.00220
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/11/2021 1:22:36 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00450	.00274	-.00002	.00005	.0118	.00007	-.00142	-.00020
Stddev	.00348	.00012	.00010	.00003	.0009	.00003	.00016	.00008
%RSD	77.378	4.2270	612.21	57.765	7.768	37.559	11.160	39.158
#1	.00696	.00282	.00006	.00003	.0111	.00009	-.00153	-.00015
#2	.00204	.00265	-.00009	.00006	.0124	.00005	-.00131	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00003	.0006
Stddev	.00025	.0001
%RSD	746.87	22.15
#1	.00021	.0005
#2	-.00015	.0007
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3835.5	2881.7	61648.	3166.1
Stddev	9.4	11.8	27.	9.9
%RSD	.24549	.40968	.04313	.31369
#1	3828.8	2873.3	61667.	3173.1
#2	3842.1	2890.0	61630.	3159.0

Sample Name: CCVL-6603764 Acquired: 8/11/2021 1:26:26 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00543**	**.18452**	**.01297**	**.02021**	**.00209**	**.00192**	**.50108**
Stddev	.00007	.02810	.00046	.00012	.00000	.00002	.00303
%RSD	1.1996	15.229	3.5418	.59062	.01838	1.0951	.60430
#1	.00548	.20439	.01265	.02013	.00209	.00190	.50323
#2	.00539	.16465	.01330	.02030	.00209	.00193	.49894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.0076**	**.00388**	**.00396**	**.00915**	**.04886**	W **.34981**
Stddev	.00003	.0157	.00007	.00013	.00004	.00316	.00881
%RSD	1.6265	206.2	1.7903	3.2513	.46193	6.4775	2.5198
#1	.00196	-.0035	.00393	.00406	.00912	.04662	.35604
#2	.00191	.0188	.00383	.00387	.00918	.05110	.34358
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02668**	**.19509**	**.00320**	F **.00451**	**1.0102**	**.00931**	z *****
Stddev	.00066	.00027	.00002	.00015	.0021	.00009	-----
%RSD	2.4922	.13823	.71947	3.3452	.20626	.92823	-----
#1	.02715	.19528	.00322	.00462	1.0117	.00925	z 139.9
#2	.02621	.19490	.00319	.00440	1.0088	.00938	z 139.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/11/2021 1:26:26 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01063**	**.1938**	**.01981**	**.02410**	**.45585**	**.00908**	**.00481**
Stddev	.00006	.0034	.00027	.00015	.01245	.00037	.00008
%RSD	.58437	1.745	1.3588	.62251	2.7313	4.0552	1.5989
#1	.01067	.1962	.02000	.02400	.44705	.00882	.00486
#2	.01058	.1914	.01962	.02421	.46466	.00934	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099**	**.00423**	**.01846**	**.00475**	**.00986**	**.0002**
Stddev	.0149	.00031	.00004	.00005	.00051	.0006
%RSD	151.4	7.4346	.19864	1.1333	5.2056	370.9
#1	.0204	.00445	.01848	.00471	.00950	-.0003
#2	-.0007	.00401	.01843	.00479	.01023	.0006
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3823.5**	**2879.5**	**61677.**	**3177.9**
Stddev	6.4	7.8	95.	1.5
%RSD	.16833	.27001	.15383	.04612
#1	3819.0	2874.0	61744.	3178.9
#2	3828.1	2885.0	61610.	3176.8

Sample Name: 480-188067-D-18-A Acquired: 8/11/2021 1:30:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.06978**	**.00206**	**.07261**	**.06669**
Stddev	.00017	.01179	.00045	.00016	.00010
%RSD	61.483	16.892	21.934	.21437	.15236
#1	-.00040	.07812	.00238	.07272	.06661
#2	-.00016	.06145	.00174	.07250	.06676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**50.989**	**.00010**	**-.0114**	**.00023**
Stddev	.00000	.058	.00012	.0123	.00001
%RSD	2.2250	.11377	114.22	107.7	2.2405
#1	-.00006	50.948	.00002	-.0202	.00023
#2	-.00006	51.030	.00019	-.0027	.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00264**	**.47591**	**3.1112**	**.00666**
Stddev	.00014	.00017	.00317	.0244	.00019
%RSD	95.745	6.5798	.66664	.78494	2.8321
#1	.00025	.00252	.47366	3.0939	.00679
#2	.00005	.00277	.47815	3.1284	.00652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-18-A Acquired: 8/11/2021 1:30:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.601**	**.08407**	**-.00433**	**45.760**	**.00115**
Stddev	.014	.00005	.00035	.100	.00044
%RSD	.12220	.06524	8.0803	.21898	38.126
#1	11.591	.08404	-.00409	45.689	.00146
#2	11.611	.08411	-.00458	45.831	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00173**	**7.443**	**-.00119**	**-.00162**
Stddev	-----	.00036	.002	.00022	.00229
%RSD	-----	20.809	.0288	18.093	141.92
#1	z 163.1	.00199	7.445	-.00134	-.00324
#2	z 162.9	.00148	7.442	-.00104	.00001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.31424**	**-.00016**	**.20573**	**.0082**	**.00099**
Stddev	.02052	.00049	.00046	.0014	.00009
%RSD	6.5309	300.63	.22302	17.02	8.9718
#1	.29973	-.00051	.20540	.0091	.00093
#2	.32875	.00019	.20605	.0072	.00106
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-18-A Acquired: 8/11/2021 1:30:17 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00042**	**.00019**	**.00352**	**-.0005**
Stddev	.00005	.00007	.00026	.0010
%RSD	12.168	39.518	7.4738	204.8
#1	-.00038	.00024	.00370	.0002
#2	-.00045	.00014	.00333	-.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3469.9**	**2772.7**	**58695.**	**3199.6**
Stddev	4.9	4.7	14.	8.2
%RSD	.14110	.17014	.02396	.25703
#1	3466.4	2769.4	58685.	3205.4
#2	3473.4	2776.0	58705.	3193.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.863%	97.151%	97.272%	102.57%
Range				

Sample Name: 480-188067-D-19-A Acquired: 8/11/2021 1:34:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.08080**	**.00007**	**.07267**	**.06479**
Stddev	.00031	.03316	.00034	.00003	.00021
%RSD	138.03	41.039	478.37	.03836	.32532
#1	.00044	.05735	.00031	.07265	.06464
#2	.00001	.10425	-.00017	.07269	.06494
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**49.823**	**.00011**	**.0058**	**.00011**
Stddev	.00001	.326	.00001	.0278	.00010
%RSD	24.622	.65399	10.107	478.8	88.448
#1	.00007	50.053	.00012	.0255	.00004
#2	.00005	49.593	.00010	-.0139	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00020**	**.00235**	**.37327**	**3.1290**	**.00589**
Stddev	.00017	.00020	.00424	.0232	.00066
%RSD	84.767	8.6643	1.1354	.74200	11.130
#1	.00031	.00249	.37626	3.1126	.00542
#2	.00008	.00221	.37027	3.1454	.00635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-19-A Acquired: 8/11/2021 1:34:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.500**	**.04627**	**-.00471**	**46.292**	**.00072**
Stddev	.077	.00032	.00008	.244	.00029
%RSD	.67022	.70199	1.6367	.52642	40.323
#1	11.555	.04650	-.00477	46.465	.00051
#2	11.446	.04604	-.00466	46.120	.00092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00068**	**7.536**	**-.00180**	**-.00539**
Stddev	-----	.00043	.002	.00134	.00155
%RSD	-----	63.670	.0284	74.099	28.830
#1	z 161.8	.00037	7.538	-.00086	-.00429
#2	z 163.3	.00098	7.535	-.00275	-.00648
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.30835**	**-.00059**	**.20520**	**.0105**	**.00080**
Stddev	.02194	.00017	.00119	.0287	.00013
%RSD	7.1137	29.546	.58137	273.5	15.918
#1	.29284	-.00071	.20604	-.0098	.00071
#2	.32386	-.00047	.20436	.0307	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-19-A Acquired: 8/11/2021 1:34:04 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00036**	**-.00001**	**.00296**	**.0003**
Stddev	.00105	.00007	.00006	.0002
%RSD	291.77	795.05	1.9691	86.32
#1	.00038	.00004	.00300	.0005
#2	-.00110	-.00006	.00292	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3478.0**	**2784.1**	**58836.**	**3180.5**
Stddev	6.0	4.9	188.	1.2
%RSD	.17215	.17723	.31875	.03858
#1	3473.7	2780.6	58969.	3179.7
#2	3482.2	2787.6	58704.	3181.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.077%	97.549%	97.506%	101.95%
Range				

Sample Name: 480-188067-D-20-A Acquired: 8/11/2021 1:37:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.00886**	**-.00131**	**.00074**	**.00001**
Stddev	.00011	.00609	.00028	.00041	.00001
%RSD	83.348	68.758	21.364	56.024	168.30
#1	-.00006	.00455	-.00151	.00103	-.00000
#2	-.00021	.01316	-.00112	.00044	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**.01695**	**-.00008**	**-.0050**	**.00011**
Stddev	.00007	.00320	.00004	.0143	.00005
%RSD	65.239	18.877	50.462	285.4	47.264
#1	-.00016	.01469	-.00011	-.0151	.00014
#2	-.00006	.01922	-.00005	.0051	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00000**	**.00506**	**-.14182**	**.00061**
Stddev	.00007	.00032	.00257	.03036	.00028
%RSD	33.415	21093.	50.866	21.405	46.885
#1	.00026	.00023	.00324	-.12035	.00041
#2	.00016	-.00023	.00688	-.16328	.00081
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-20-A Acquired: 8/11/2021 1:37:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00790**	**.00044**	**-.00760**	**.02112**	**-.00006**
Stddev	.00256	.00003	.00014	.00268	.00004
%RSD	32.462	7.7639	1.8217	12.701	63.136
#1	.00971	.00046	-.00750	.02302	-.00003
#2	.00609	.00041	-.00770	.01923	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00073**	**.0038**	**-.00044**	**.00037**
Stddev	-----	.00126	.0000	.00016	.00052
%RSD	-----	173.10	.9902	36.112	139.28
#1	z 136.2	.00162	.0038	-.00055	.00074
#2	z 135.7	-.00016	.0039	-.00033	.00001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00512**	**-.00037**	**.00005**	**.0123**	**-.00043**
Stddev	.00360	.00079	.00001	.0060	.00001
%RSD	70.324	212.48	27.234	48.76	2.4069
#1	-.00258	-.00093	.00006	.0165	-.00042
#2	-.00767	.00019	.00004	.0081	-.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188067-D-20-A Acquired: 8/11/2021 1:37:52 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00075**	**-.00003**	**.00079**	**-.0004**
Stddev	.00082	.00014	.00002	.0019
%RSD	109.47	439.45	2.9666	501.7
#1	-.00133	.00007	.00077	.0010
#2	-.00017	-.00013	.00080	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3856.0**	**2898.9**	**62155.**	**3235.2**
Stddev	1.3	3.0	66.	15.2
%RSD	.03479	.10417	.10541	.47016
#1	3857.0	2901.0	62201.	3246.0
#2	3855.1	2896.7	62109.	3224.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.09%	101.57%	103.01%	103.71%
Range				

Sample Name: LB 480-592152/1-B Acquired: 8/11/2021 1:41:43 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.02221**	**.00202**	**.02438**	**.00117**
Stddev	.00055	.01979	.00352	.00039	.00000
%RSD	313.66	89.090	174.20	1.6003	.10065
#1	.00021	.00822	-.00047	.02466	.00117
#2	-.00057	.03620	.00451	.02410	.00117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.08791**	**-.00003**	**.0271**	**-.00013**
Stddev	.00001	.00171	.00016	.0083	.00006
%RSD	19.703	1.9484	559.15	30.68	44.545
#1	-.00008	.08912	.00008	.0330	-.00009
#2	-.00006	.08670	-.00014	.0212	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00187**	**.00010**	**.00345**	**.53408**	**-.00043**
Stddev	.00028	.00013	.00555	.01639	.00113
%RSD	15.199	131.71	160.57	3.0680	260.88
#1	.00207	.00001	-.00047	.52250	.00037
#2	.00166	.00019	.00738	.54567	-.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-592152/1-B Acquired: 8/11/2021 1:41:43 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05760**	**.00178**	**-.00765**	F **1411.8**	**.00058**
Stddev	.00368	.00000	.00011	5.0	.00004
%RSD	6.3895	.27569	1.4815	.35572	7.2659
#1	.05500	.00179	-.00773	1415.4	.00061
#2	.06021	.00178	-.00757	1408.3	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00096**	**.0165**	**.00157**	**-.00613**
Stddev	-----	.00045	.0036	.00151	.00050
%RSD	-----	46.509	21.77	96.228	8.1011
#1	z 148.8	.00064	.0190	.00050	-.00648
#2	z 147.6	.00128	.0139	.00264	-.00578
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00640**	**.00038**	**.00025**	**.0084**	**-.00073**
Stddev	.00989	.00006	.00002	.0122	.00007
%RSD	154.41	15.536	9.5697	144.2	9.5525
#1	-.00059	.00034	.00027	.0170	-.00078
#2	.01339	.00043	.00023	-.0002	-.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LB 480-592152/1-B Acquired: 8/11/2021 1:41:43 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00135**	**-.00027**	**.00783**	**.0009**
Stddev	.00193	.00007	.00010	.0023
%RSD	142.68	24.977	1.2976	267.4
#1	-.00271	-.00032	.00791	-.0008
#2	.00001	-.00022	.00776	.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2889.6**	**2523.7**	**50377.**	**3038.4**
Stddev	4.7	3.0	48.	18.9
%RSD	.16193	.11848	.09544	.62067
#1	2886.3	2521.6	50411.	3025.0
#2	2892.9	2525.9	50343.	3051.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.500%	88.428%	83.487%	97.396%
Range				

Sample Name: MB 480-592331/2-A Acquired: 8/11/2021 1:45:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.04719**	**-.00162**	**-.00145**	**.00046**
Stddev	.00020	.01090	.00074	.00018	.00000
%RSD	162.32	23.104	45.457	12.214	.26604
#1	.00002	.05490	-.00214	-.00133	.00046
#2	-.00026	.03948	-.00110	-.00158	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.07741**	**.00006**	**.0187**	**.00024**
Stddev	.00006	.00232	.00006	.0073	.00008
%RSD	76.975	2.9948	92.934	38.76	34.798
#1	-.00012	.07577	.00010	.0136	.00030
#2	-.00004	.07905	.00002	.0239	.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.00018**	**-.00113**	**-.14429**	**.00004**
Stddev	.00019	.00024	.00230	.00514	.00039
%RSD	473.30	132.78	202.97	3.5632	900.94
#1	-.00010	.00001	.00049	-.14792	.00032
#2	.00018	.00036	-.00276	-.14065	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592331/2-A Acquired: 8/11/2021 1:45:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01289**	**.00397**	**-.00779**	F **1.4415**	**.00006**
Stddev	.00203	.00001	.00007	.0071	.00000
%RSD	15.749	.22914	.84583	.49367	5.8106
#1	.01432	.00396	-.00775	1.4465	.00006
#2	.01145	.00398	-.00784	1.4364	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				1.0000	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00143**	**.0054**	**-.00095**	**.00055**
Stddev	-----	.00011	.0021	.00121	.00250
%RSD	-----	8.0087	38.30	127.48	456.11
#1	z 137.8	.00135	.0068	-.00009	.00232
#2	z 136.2	.00151	.0039	-.00180	-.00122
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.01331**	**-.00104**	**.00024**	**.0030**	**-.00049**
Stddev	.00891	.00021	.00006	.0102	.00020
%RSD	66.967	19.896	24.254	338.6	41.136
#1	-.01961	-.00089	.00020	.0102	-.00063
#2	-.00701	-.00118	.00028	-.0042	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592331/2-A Acquired: 8/11/2021 1:45:39 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00135**	**-.00009**	**.00313**	**.0007**
Stddev	.00088	.00011	.00007	.0000
%RSD	65.143	126.63	2.1197	3.904
#1	-.00073	-.00016	.00308	.0007
#2	-.00198	-.00001	.00318	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3848.2**	**2901.4**	**61811.**	**3213.1**
Stddev	9.1	6.5	44.	5.5
%RSD	.23648	.22505	.07188	.16995
#1	3854.6	2906.0	61780.	3217.0
#2	3841.8	2896.7	61842.	3209.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.88%	101.66%	102.44%	103.00%
Range				

Sample Name: LCS 480-592331/3-A Acquired: 8/11/2021 1:49:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0522**	**.05523**	**1.1056**	**.02116**	**.97608**
Stddev	.0030	.02045	.0012	.00013	.00016
%RSD	.28828	37.023	.10489	.62831	.01621
#1	1.0543	.04077	1.1047	.02125	.97596
#2	1.0500	.06969	1.1064	.02106	.97619
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99154**	**.10253**	**1.0712**	**-.0015**	**.99950**
Stddev	.00126	.00206	.0006	.0011	.00045
%RSD	.12730	2.0106	.05451	74.07	.04465
#1	.99065	.10399	1.0717	-.0023	.99919
#2	.99243	.10108	1.0708	-.0007	.99982
Check ?	Chk Pass	None	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99323**	**1.0088**	**.00102**	**.53669**	**.00141**
Stddev	.00361	.0017	.00130	.02317	.00128
%RSD	.36317	.17176	126.80	4.3168	90.831
#1	.99578	1.0101	.00011	.55307	.00232
#2	.99068	1.0076	.00194	.52031	.00050
Check ?	Chk Pass	Chk Pass	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-592331/3-A Acquired: 8/11/2021 1:49:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03902**	**.99983**	**1.0191**	**1409.5**	**1.0073**
Stddev	.00384	.00161	.0037	.6	.0004
%RSD	9.8508	.16110	.35887	.04536	.04126
#1	.03630	1.0010	1.0165	1409.0	1.0070
#2	.04174	.99869	1.0217	1409.9	1.0076
Check ?	None	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**1.0071**	F **-.0159**	**1.1091**	**1.0665**
Stddev	-----	.0036	.0028	.0013	.0064
%RSD	-----	.35436	17.47	.11833	.60389
#1	z 157.3	1.0045	-.0178	1.1082	1.0711
#2	z 158.7	1.0096	-.0139	1.1100	1.0619
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			1.200		
Low Limit			.8000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00718**	**.00114**	**.93763**	**.0044**	**-.00054**
Stddev	.00820	.00087	.00108	.0017	.00001
%RSD	114.26	75.890	.11561	37.49	1.3659
#1	.01297	.00053	.93840	.0033	-.00055
#2	.00138	.00176	.93687	.0056	-.00054
Check ?	None	None	None	None	None
High Limit					
Low Limit					

Sample Name: LCS 480-592331/3-A Acquired: 8/11/2021 1:49:30 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	.96533	1.0077	1.0733	-.0000
Stddev	.00062	.0024	.0004	.0002
%RSD	.06447	.23881	.03567	1160.
#1	.96489	1.0094	1.0736	-.0001
#2	.96577	1.0060	1.0731	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2874.0	2517.3	50791.	3088.4
Stddev	4.0	1.2	48.	4.0
%RSD	.13775	.04579	.09456	.12790
#1	2876.8	2518.1	50757.	3091.2
#2	2871.2	2516.5	50825.	3085.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.087%	88.203%	84.173%	99.000%
Range				

Sample Name: 480-187936-A-1-C Acquired: 8/11/2021 1:53:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**1.5674**	**.00514**	**.89675**	**.11576**
Stddev	.00007	.0097	.00353	.00249	.00032
%RSD	164.53	.61906	68.684	.27729	.27688
#1	-.00010	1.5606	.00264	.89851	.11554
#2	.00001	1.5743	.00764	.89500	.11599
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**53.788**	**.00050**	**.0131**	**.00004**
Stddev	.00005	.050	.00004	.0157	.00021
%RSD	63.016	.09309	7.6081	119.8	489.19
#1	.00010	53.823	.00052	.0020	-.00011
#2	.00004	53.752	.00047	.0242	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00518**	**.00198**	**.94413**	**3.8504**	**.00187**
Stddev	.00018	.00024	.00291	.0509	.00070
%RSD	3.4311	11.901	.30869	1.3223	37.527
#1	.00505	.00181	.94619	3.8144	.00237
#2	.00530	.00214	.94207	3.8864	.00138
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187936-A-1-C Acquired: 8/11/2021 1:53:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9988**	**.07281**	**.00105**	F **1424.3**	**.00081**
Stddev	.0004	.00004	.00131	2.1	.00013
%RSD	.00586	.05410	124.50	.14643	16.161
#1	5.9986	.07279	.00198	1425.8	.00091
#2	5.9991	.07284	.00013	1422.8	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00333**	**2.518**	**.00522**	**-.00250**
Stddev	-----	.00024	.001	.00213	.00242
%RSD	-----	7.2336	.0224	40.924	96.763
#1	z 190.3	.00350	2.518	.00371	-.00079
#2	z 190.4	.00316	2.517	.00673	-.00421
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7824**	**.00061**	**.07808**	**-.0037**	**.04410**
Stddev	.0024	.00179	.00004	.0032	.00297
%RSD	.13427	293.71	.04806	86.53	6.7375
#1	1.7807	-.00066	.07810	-.0060	.04200
#2	1.7841	.00187	.07805	-.0014	.04620
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187936-A-1-C Acquired: 8/11/2021 1:53:21 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00151**	**.05846**	**-.0005**
Stddev	.00065	.00010	.00115	.0006
%RSD	594.52	6.5733	1.9741	123.3
#1	.00056	.00158	.05927	-.0001
#2	-.00035	.00144	.05764	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2841.9**	**2518.9**	**50941.**	**3070.2**
Stddev	4.3	2.8	35.	7.1
%RSD	.15062	.11149	.06913	.23060
#1	2844.9	2520.9	50966.	3075.2
#2	2838.8	2517.0	50916.	3065.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.236%	88.260%	84.422%	98.415%
Range				

Sample Name: 480-188057-A-1-C Acquired: 8/11/2021 1:57:14 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00068**	**.16446**	**.00190**	**.42029**	**.32556**
Stddev	.00092	.02018	.00550	.00030	.00000
%RSD	134.87	12.273	289.08	.07158	.00036
#1	-.00003	.15019	-.00199	.42008	.32556
#2	-.00134	.17874	.00580	.42050	.32556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**792.87**	**.00017**	**.0091**	**.00109**
Stddev	.00002	5.87	.00004	.0012	.00004
%RSD	14.243	.73975	24.915	12.81	4.1067
#1	-.00013	788.72	.00020	.0100	.00106
#2	-.00015	797.02	.00014	.0083	.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00398**	**15.444**	**11.231**	**.01681**
Stddev	.00013	.00023	.027	.006	.00066
%RSD	44.595	5.8936	.17439	.05574	3.9056
#1	.00037	.00382	15.425	11.226	.01727
#2	.00019	.00415	15.463	11.235	.01634
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188057-A-1-C Acquired: 8/11/2021 1:57:14 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.520**	**3.3170**	**.00900**	F **1422.8**	**.00506**
Stddev	.047	.0098	.00013	2.3	.00032
%RSD	.28731	.29528	1.4797	.16427	6.3445
#1	16.486	3.3101	.00909	1424.4	.00529
#2	16.553	3.3239	.00890	1421.1	.00483
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00195**	**31.98**	**-.00291**	**-.01398**
Stddev	-----	.00029	.02	.00038	.00125
%RSD	-----	14.888	.0522	13.157	8.9750
#1	z 218.4	.00174	31.99	-.00318	-.01487
#2	z 220.0	.00215	31.97	-.00264	-.01309
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**23.550**	**.00138**	**1.7778**	**-.0001**	**.00644**
Stddev	.070	.00018	.0021	.0107	.00025
%RSD	.29633	12.923	.11794	17140.	3.8897
#1	23.501	.00125	1.7793	-.0077	.00662
#2	23.600	.00150	1.7763	.0075	.00627
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188057-A-1-C Acquired: 8/11/2021 1:57:14 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00150**	**.00060**	**.02006**	**.0010**
Stddev	.00199	.00021	.00069	.0013
%RSD	132.34	35.446	3.4423	138.2
#1	-.00291	.00075	.02055	.0019
#2	-.00010	.00045	.01957	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2633.8**	**2353.3**	**48830.**	**2988.0**
Stddev	1.3	1.8	93.	4.7
%RSD	.05082	.07519	.19029	.15698
#1	2632.8	2352.1	48896.	2991.3
#2	2634.7	2354.6	48765.	2984.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.728%	82.457%	80.924%	95.781%
Range				

Sample Name: 480-188057-C-2-C Acquired: 8/11/2021 2:01:10 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**.45608**	**.00146**	**.18631**	**.63285**
Stddev	.00054	.02660	.00066	.00056	.00146
%RSD	809.11	5.8327	45.369	.30024	.23089
#1	.00032	.47489	.00099	.18670	.63182
#2	-.00045	.43727	.00193	.18591	.63388
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	**742.82**	**.00177**	**.0258**	**.00252**
Stddev	.00000	1.64	.00002	.0004	.00039
%RSD	1.9451	.22023	1.3431	1.523	15.510
#1	-.00011	741.67	.00175	.0255	.00225
#2	-.00011	743.98	.00178	.0261	.00280
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00205**	**.00435**	**.33812**	**2.7825**	**.01670**
Stddev	.00005	.00033	.00421	.0314	.00057
%RSD	2.6421	7.5978	1.2438	1.1296	3.3872
#1	.00201	.00458	.33515	2.7603	.01710
#2	.00209	.00411	.34110	2.8047	.01630
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188057-C-2-C Acquired: 8/11/2021 2:01:10 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.836**	**2.7488**	**-.00492**	F **1519.4**	**.00600**
Stddev	.094	.0111	.00002	3.3	.00012
%RSD	.49799	.40537	.42820	.21729	1.9996
#1	18.769	2.7409	-.00493	1521.7	.00592
#2	18.902	2.7567	-.00490	1517.1	.00609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00141**	**5.366**	**-.00358**	**-.01338**
Stddev	-----	.00048	.009	.00038	.00068
%RSD	-----	33.910	.1720	10.634	5.0543
#1	z 212.5	.00175	5.360	-.00385	-.01386
#2	z 214.1	.00107	5.373	-.00331	-.01290
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4378**	**.00130**	**1.4470**	**-.0018**	**.01628**
Stddev	.0512	.00030	.0032	.0145	.00195
%RSD	.94125	23.473	.22199	793.0	12.006
#1	5.4740	.00108	1.4493	-.0121	.01766
#2	5.4016	.00151	1.4447	.0084	.01490
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188057-C-2-C Acquired: 8/11/2021 2:01:10 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00160**	**.02917**	**.0008**
Stddev	.00118	.00061	.00058	.0008
%RSD	262.45	37.927	1.9884	103.6
#1	.00038	.00117	.02876	.0014
#2	-.00128	.00203	.02958	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2627.4**	**2355.0**	**48749.**	**3005.3**
Stddev	.8	1.6	185.	3.1
%RSD	.02977	.06797	.37928	.10155
#1	2626.8	2353.8	48879.	3003.1
#2	2628.0	2356.1	48618.	3007.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.559%	82.514%	80.788%	96.336%
Range				

Sample Name: CCV-6603765 Acquired: 8/11/2021 2:05:13 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.96621**	**49.327**	**.98921**	**1.0138**	**.96443**	**.98401**	**49.658**	**1.0083**
Stddev	.00043	.210	.00032	.0003	.00152	.00033	.081	.0009
%RSD	.04485	.42649	.03277	.03029	.15735	.03308	.16243	.09061
#1	.96590	49.475	.98944	1.0141	.96335	.98424	49.715	1.0090
#2	.96651	49.178	.98898	1.0136	.96550	.98378	49.601	1.0077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9740**	**.97269**	**.98597**	**.98703**	**48.554**	**47.868**	**.93105**	**48.376**
Stddev	.0070	.00055	.00118	.00132	.057	.029	.00245	.061
%RSD	.7234	.05637	.11926	.13380	.11681	.06097	.26283	.12551
#1	.9790	.97308	.98680	.98610	48.594	47.848	.93278	48.333
#2	.9690	.97230	.98514	.98796	48.513	47.889	.92932	48.419
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97820**	**1.0156**	**47.609**	**.98319**	z *****	**.98195**	**24.83**	**.99983**
Stddev	.00080	.0049	.023	.00041	-----	.00116	.07	.00380
%RSD	.08129	.47872	.04817	.04158	-----	.11767	.2661	.37999
#1	.97764	1.0121	47.625	.98290	z 8966.	.98277	24.88	.99714
#2	.97877	1.0190	47.593	.98348	z 8965.	.98113	24.78	1.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/11/2021 2:05:13 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99372	9.7340	.97658	.97156	.9950	.98802	.98803	.99225
Stddev	.00130	.0340	.00010	.00081	.0105	.00007	.00016	.00015
%RSD	.13037	.34910	.01040	.08319	1.058	.00740	.01665	.01475
#1	.99464	9.7580	.97666	.97098	.9876	.98807	.98792	.99236
#2	.99281	9.7100	.97651	.97213	1.002	.98797	.98815	.99215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99997	.9750
Stddev	.00169	.0040
%RSD	.16882	.4081
#1	.99878	.9722
#2	1.0012	.9778
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3282.2	2758.6	57297.	3140.2
Stddev	2.4	5.5	76.	13.9
%RSD	.07258	.19939	.13309	.44154
#1	3280.6	2754.7	57243.	3130.4
#2	3283.9	2762.5	57350.	3150.0

Sample Name: CCB-6597963 Acquired: 8/11/2021 2:08:50 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00013**	**.03621**	**.00142**	**-.00236**	**.00010**	**-.00010**	**.00086**	**-.00000**
Stddev	.00009	.03800	.00029	.00010	.00002	.00002	.00319	.00007
%RSD	66.617	104.92	20.732	4.0962	15.715	20.142	370.50	2987.4
#1	-.00019	.00935	.00121	-.00243	.00009	-.00008	.00312	-.00005
#2	-.00007	.06308	.00163	-.00229	.00011	-.00011	-.00140	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0265**	**.00019**	**-.00008**	**.00012**	**.00598**	**-.13135**	**-.00159**	**.00210**
Stddev	.0173	.00017	.00001	.00015	.00008	.00528	.00013	.00108
%RSD	65.18	89.749	6.0226	119.11	1.2874	4.0171	8.3712	51.387
#1	-.0387	.00030	-.00008	.00023	.00604	-.13508	-.00150	.00134
#2	-.0143	.00007	-.00009	.00002	.00593	-.12762	-.00168	.00286
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00002**	**.00132**	**.11684**	**-.00015**	z *****	**.00064**	**-.0063**	**.00055**
Stddev	.00003	.00163	.00213	.00011	-----	.00002	.0068	.00024
%RSD	145.70	123.50	1.8251	77.155	-----	2.8231	108.1	44.321
#1	-.00000	.00248	.11533	-.00007	z 139.7	.00065	-.0015	.00072
#2	.00004	.00017	.11835	-.00023	z 140.2	.00063	-.0111	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/11/2021 2:08:50 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00469	-.00636	.00001	-.00004	-.0027	-.00014	-.00123	-.00006
Stddev	.00305	.00355	.00009	.00004	.0073	.00033	.00121	.00009
%RSD	65.051	55.771	698.61	101.72	265.6	237.17	98.412	153.07
#1	.00684	-.00385	-.00005	-.00001	-.0079	-.00037	-.00209	.00001
#2	.00253	-.00887	.00008	-.00007	.0024	.00009	-.00037	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00008	-.0004
Stddev	.00017	.0004
%RSD	223.68	87.94
#1	.00020	-.0007
#2	-.00005	-.0002
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3830.3	2864.5	61185.	3142.1
Stddev	.2	8.2	41.	.7
%RSD	.00488	.28726	.06757	.02189
#1	3830.2	2858.6	61214.	3141.6
#2	3830.5	2870.3	61155.	3142.6

Sample Name: CCVL-6603764 Acquired: 8/11/2021 2:12:41 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00567**	**.20063**	**.01454**	**.01623**	**.00210**	**.00193**	**.49239**
Stddev	.00011	.00645	.00188	.00024	.00002	.00003	.00087
%RSD	1.9485	3.2149	12.954	1.4686	.86513	1.5995	.17706
#1	.00559	.20519	.01321	.01606	.00212	.00195	.49178
#2	.00575	.19607	.01587	.01640	.00209	.00191	.49301
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.0217**	**.00384**	**.00388**	**.00949**	**.04701**	W **.30793**
Stddev	.00007	.0060	.00006	.00008	.00002	.00267	.01749
%RSD	3.6143	27.65	1.6020	2.1529	.16955	5.6762	5.6784
#1	.00203	.0175	.00380	.00394	.00948	.04512	.29557
#2	.00193	.0260	.00388	.00382	.00950	.04890	.32030
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02742**	**.19553**	**.00319**	F **.00488**	**1.0766**	**.00944**	z *****
Stddev	.00090	.00195	.00003	.00010	.0042	.00017	-----
%RSD	3.2937	.99491	.91434	2.1432	.38569	1.7791	-----
#1	.02678	.19691	.00317	.00495	1.0736	.00932	z 139.3
#2	.02806	.19416	.00321	.00480	1.0795	.00956	z 139.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/11/2021 2:12:41 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00971**	**.1843**	**.02047**	**.02491**	**.48193**	**.00850**	**.00479**
Stddev	.00062	.0077	.00075	.00404	.00321	.00070	.00004
%RSD	6.4330	4.192	3.6523	16.223	.66581	8.2166	.83344
#1	.00927	.1788	.02100	.02777	.48420	.00899	.00482
#2	.01015	.1898	.01994	.02205	.47966	.00800	.00477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**.00438**	**.01896**	**.00470**	**.00956**	**.0022**
Stddev	.0086	.00038	.00079	.00039	.00020	.0006
%RSD	245.5	8.6926	4.1482	8.4048	2.0772	28.69
#1	-.0026	.00465	.01952	.00442	.00942	.0018
#2	.0096	.00411	.01841	.00497	.00970	.0027
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3834.0**	**2885.7**	**61640.**	**3162.6**
Stddev	10.6	11.5	57.	6.7
%RSD	.27753	.39803	.09313	.21286
#1	3841.5	2893.8	61681.	3157.8
#2	3826.5	2877.6	61600.	3167.3

Sample Name: 480-187949-A-1-D Acquired: 8/11/2021 2:16:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00060**	**3.6805**	**.02690**	**.33934**	**.45759**
Stddev	.00002	.0054	.00164	.00057	.00544
%RSD	2.8345	.14716	6.0860	.16888	1.1899
#1	-.00061	3.6767	.02806	.33893	.46144
#2	-.00059	3.6843	.02574	.33974	.45374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**12.697**	**.04315**	**.0059**	**.01031**
Stddev	.00002	.030	.00022	.0165	.00022
%RSD	2.4755	.23894	.51386	279.2	2.1231
#1	.00092	12.718	.04331	-.0058	.01016
#2	.00095	12.675	.04300	.0176	.01047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00452**	**.00704**	**1.9268**	**3.6495**	**.00340**
Stddev	.00053	.00021	.0159	.0044	.00211
%RSD	11.846	2.9902	.82371	.12010	61.935
#1	.00489	.00719	1.9155	3.6464	.00489
#2	.00414	.00689	1.9380	3.6526	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187949-A-1-D Acquired: 8/11/2021 2:16:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.4586**	**1.3457**	**-.00684**	F **1418.2**	**.01369**
Stddev	.0076	.0005	.00005	1.5	.00012
%RSD	.52100	.03987	.72633	.10626	.85778
#1	1.4640	1.3454	-.00680	1417.1	.01360
#2	1.4532	1.3461	-.00687	1419.3	.01377
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.50092**	**.3076**	**.02381**	**-.00658**
Stddev	-----	.00234	.0102	.00030	.00474
%RSD	-----	.46659	3.323	1.2808	72.035
#1	z 182.2	.49927	.3004	.02360	-.00323
#2	z 182.5	.50257	.3148	.02403	-.00993
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.2797**	**.00132**	**.05874**	**-.0103**	**.05091**
Stddev	.1943	.00028	.00013	.0119	.00689
%RSD	4.5391	21.379	.22622	116.1	13.530
#1	4.1423	.00112	.05865	-.0018	.05578
#2	4.4171	.00152	.05884	-.0187	.04604
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187949-A-1-D Acquired: 8/11/2021 2:16:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00414**	**.26220**	**.0014**
Stddev	.00007	.00020	.00026	.0003
%RSD	292.27	4.7555	.10016	21.47
#1	.00003	.00400	.26238	.0017
#2	-.00007	.00428	.26201	.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2868.6**	**2533.8**	**51172.**	**3077.9**
Stddev	2.1	.3	23.	11.7
%RSD	.07159	.01049	.04559	.38014
#1	2870.1	2534.0	51155.	3086.2
#2	2867.2	2533.7	51188.	3069.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.944%	88.782%	84.804%	98.664%
Range				

Sample Name: 480-187949-A-2-D Acquired: 8/11/2021 2:20:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00112**	**4.9050**	**.01780**	**.41664**	**.32643**
Stddev	.00034	.0231	.00175	.00122	.00044
%RSD	30.093	.46984	9.8396	.29283	.13437
#1	.00088	4.9213	.01904	.41750	.32674
#2	.00136	4.8887	.01656	.41577	.32612
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**19.662**	**.00485**	**.0373**	**.01580**
Stddev	.00013	.091	.00007	.0032	.00008
%RSD	8.1551	.46537	1.4292	8.611	.52043
#1	.00145	19.597	.00480	.0396	.01586
#2	.00162	19.727	.00490	.0351	.01574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00589**	**.00632**	**3.3360**	**4.4538**	**.00562**
Stddev	.00016	.00015	.0256	.0198	.00126
%RSD	2.7145	2.4065	.76882	.44455	22.477
#1	.00578	.00621	3.3179	4.4398	.00651
#2	.00601	.00643	3.3541	4.4678	.00472
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187949-A-2-D Acquired: 8/11/2021 2:20:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7689**	**3.2286**	**-.00704**	F **1395.1**	**.01172**
Stddev	.0052	.0317	.00021	3.1	.00028
%RSD	.29469	.98277	2.9252	.22055	2.3541
#1	1.7653	3.2510	-.00719	1392.9	.01152
#2	1.7726	3.2061	-.00690	1397.3	.01191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05268**	**.2165**	**.00372**	**-.00752**
Stddev	-----	.00126	.0012	.00037	.00056
%RSD	-----	2.3911	.5316	9.8891	7.3885
#1	z 205.9	.05179	.2156	.00346	-.00791
#2	z 204.4	.05357	.2173	.00398	-.00713
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1433**	**.00034**	**.07696**	**.0104**	**.06952**
Stddev	.0401	.00136	.00015	.0027	.00282
%RSD	.65356	397.72	.19889	26.38	4.0567
#1	6.1149	.00130	.07685	.0084	.06753
#2	6.1716	-.00062	.07706	.0123	.07151
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187949-A-2-D Acquired: 8/11/2021 2:20:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00039**	**.00655**	**.08327**	**.0027**
Stddev	.00165	.00022	.00015	.0009
%RSD	422.81	3.4072	.18378	33.25
#1	-.00155	.00671	.08316	.0033
#2	.00077	.00639	.08338	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2860.5**	**2529.6**	**51128.**	**3061.4**
Stddev	4.2	1.6	41.	5.6
%RSD	.14639	.06269	.07977	.18270
#1	2857.6	2528.4	51099.	3057.4
#2	2863.5	2530.7	51157.	3065.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.731%	88.632%	84.731%	98.133%
Range				

Sample Name: 480-187949-A-3-F Acquired: 8/11/2021 2:24:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**4.4158**	**.02314**	**.39440**	**.41191**
Stddev	.00041	.0304	.00023	.00033	.00029
%RSD	779.71	.68926	.98654	.08361	.06999
#1	.00034	4.3943	.02297	.39417	.41170
#2	-.00024	4.4373	.02330	.39464	.41211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00127**	**13.805**	**.00267**	**-.0117**	**.00642**
Stddev	.00004	.033	.00005	.0272	.00012
%RSD	2.7651	.24120	1.7354	231.9	1.9390
#1	.00129	13.782	.00271	.0075	.00633
#2	.00124	13.829	.00264	-.0309	.00651
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00567**	**.00383**	**3.0989**	**4.4834**	**.00291**
Stddev	.00019	.00028	.0177	.0206	.00010
%RSD	3.2899	7.2407	.57052	.45962	3.4888
#1	.00554	.00363	3.0864	4.4689	.00298
#2	.00580	.00403	3.1114	4.4980	.00284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187949-A-3-F Acquired: 8/11/2021 2:24:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5523**	**3.6362**	**-.00761**	F **1407.7**	**.01116**
Stddev	.0009	.0204	.00002	4.7	.00019
%RSD	.05596	.56063	.31819	.33424	1.6944
#1	1.5517	3.6218	-.00763	1404.4	.01129
#2	1.5529	3.6507	-.00760	1411.1	.01103
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.05558**	**.2314**	**.00206**	**-.00419**
Stddev	-----	.00132	.0004	.00093	.00246
%RSD	-----	2.3685	.1682	45.144	58.796
#1	z 189.4	.05651	.2316	.00272	-.00593
#2	z 190.9	.05465	.2311	.00141	-.00245
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.1059**	**.00087**	**.05794**	**.0090**	**.06270**
Stddev	.0213	.00050	.00011	.0131	.00187
%RSD	.41626	57.492	.18264	145.4	2.9816
#1	5.0909	.00122	.05787	-.0003	.06137
#2	5.1210	.00052	.05802	.0183	.06402
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187949-A-3-F Acquired: 8/11/2021 2:24:57 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00194**	**.00452**	**.02615**	**.0011**
Stddev	.00030	.00006	.00075	.0001
%RSD	15.578	1.2184	2.8703	6.841
#1	-.00173	.00448	.02668	.0011
#2	-.00215	.00456	.02562	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2863.4**	**2534.7**	**51373.**	**3078.3**
Stddev	6.0	1.5	83.	5.4
%RSD	.21080	.05725	.16159	.17597
#1	2859.2	2533.7	51432.	3082.1
#2	2867.7	2535.8	51314.	3074.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.807%	88.814%	85.138%	98.675%
Range				

Sample Name: 480-187864-A-1-C Acquired: 8/11/2021 2:29:01 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00030**	**3.5782**	**.00494**	**.69489**	**.21001**
Stddev	.00063	.0065	.00036	.00041	.00027
%RSD	211.13	.18060	7.3231	.05926	.12854
#1	.00015	3.5736	.00519	.69460	.20982
#2	-.00074	3.5827	.00468	.69518	.21020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**385.81**	**.00057**	**.0168**	**.01396**
Stddev	.00005	1.07	.00007	.0280	.00001
%RSD	136.22	.27703	12.613	166.2	.08181
#1	-.00007	385.06	.00052	.0366	.01395
#2	-.00000	386.57	.00062	-.0030	.01397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00792**	**.03630**	**45.321**	**8.5239**	**.00725**
Stddev	.00006	.00013	.116	.0318	.00025
%RSD	.77102	.36642	.25641	.37316	3.4194
#1	.00788	.03639	45.239	8.5014	.00743
#2	.00796	.03621	45.403	8.5464	.00708
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187864-A-1-C Acquired: 8/11/2021 2:29:01 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.819**	**3.8446**	**-.00388**	F **1415.4**	**.03796**
Stddev	.070	.0272	.00013	.3	.00025
%RSD	.47056	.70703	3.2601	.02030	.65018
#1	14.868	3.8638	-.00379	1415.2	.03814
#2	14.770	3.8254	-.00397	1415.6	.03779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00704**	**8.574**	**-.00243**	**-.01073**
Stddev	-----	.00104	.012	.00077	.00167
%RSD	-----	14.721	.1383	31.754	15.555
#1	z 1307.	.00777	8.566	-.00188	-.01191
#2	z 1308.	.00631	8.583	-.00298	-.00955
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6509**	**.00296**	**2.5077**	**.0298**	**.01216**
Stddev	.0026	.00049	.0026	.0070	.00039
%RSD	.09936	16.409	.10469	23.58	3.2424
#1	2.6490	.00330	2.5058	.0348	.01244
#2	2.6527	.00261	2.5095	.0249	.01188
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187864-A-1-C Acquired: 8/11/2021 2:29:01 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00159**	**.00156**	**.27612**	**.0040**
Stddev	.00062	.00034	.00131	.0012
%RSD	39.190	22.026	.47530	30.61
#1	-.00115	.00180	.27519	.0049
#2	-.00203	.00131	.27705	.0031
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2707.1**	**2426.4**	**50258.**	**3017.9**
Stddev	.5	.6	64.	1.9
%RSD	.01962	.02291	.12692	.06390
#1	2707.5	2426.0	50213.	3016.5
#2	2706.8	2426.7	50303.	3019.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.670%	85.016%	83.290%	96.740%
Range				

Sample Name: 480-187921-A-1-C Acquired: 8/11/2021 2:33:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.95154**	**.00334**	**.22338**	**.41788**
Stddev	.00045	.01039	.00602	.00083	.00048
%RSD	856.65	1.0921	180.28	.37152	.11390
#1	-.00027	.95888	-.00092	.22279	.41754
#2	.00037	.94419	.00760	.22397	.41821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**538.88**	**.00798**	**.0382**	**.00568**
Stddev	.00009	.44	.00004	.0209	.00009
%RSD	4964.1	.08126	.46213	54.61	1.5611
#1	.00006	539.19	.00795	.0234	.00561
#2	-.00006	538.57	.00800	.0529	.00574
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00217**	**.02404**	**.68414**	**3.2780**	**.00924**
Stddev	.00010	.00035	.00873	.0034	.00155
%RSD	4.7976	1.4755	1.2760	.10273	16.810
#1	.00210	.02429	.69031	3.2804	.00814
#2	.00224	.02379	.67797	3.2757	.01034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-C Acquired: 8/11/2021 2:33:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.311**	**1.8066**	**-.00525**	F **1493.1**	**.01299**
Stddev	.009	.0021	.00012	2.1	.00016
%RSD	.06164	.11419	2.3753	.14286	1.2131
#1	15.318	1.8081	-.00534	1494.6	.01311
#2	15.304	1.8052	-.00517	1491.6	.01288
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.06339**	**.5005**	**-.00105**	**-.01243**
Stddev	-----	.00096	.0089	.00072	.00041
%RSD	-----	1.5110	1.780	69.239	3.2658
#1	z 244.6	.06271	.5068	-.00053	-.01215
#2	z 246.9	.06406	.4942	-.00156	-.01272
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7386**	**.00204**	**1.2278**	**.0039**	**.02492**
Stddev	.0248	.00058	.0028	.0029	.00478
%RSD	.90445	28.365	.23131	73.66	19.188
#1	2.7211	.00163	1.2299	.0060	.02154
#2	2.7561	.00244	1.2258	.0019	.02830
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-C Acquired: 8/11/2021 2:33:02 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00038**	**.00189**	**.49368**	**.0003**
Stddev	.00119	.00009	.00008	.0008
%RSD	312.26	4.8719	.01589	283.7
#1	-.00046	.00182	.49373	-.0003
#2	.00123	.00195	.49362	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2669.9**	**2374.5**	**49190.**	**2992.4**
Stddev	7.5	6.0	32.	4.9
%RSD	.27906	.25390	.06554	.16513
#1	2664.7	2370.2	49167.	2988.9
#2	2675.2	2378.8	49213.	2995.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.685%	83.199%	81.519%	95.923%
Range				

Sample Name: 480-187921-A-1-CSD@5 Acquired: 8/11/2021 2:37:05 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**.19213**	**.00155**	**.04084**	**.08497**
Stddev	.00091	.00497	.00102	.00004	.00013
%RSD	328.21	2.5859	66.273	.09880	.15244
#1	-.00092	.18861	.00082	.04082	.08487
#2	.00037	.19564	.00227	.04087	.08506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**110.70**	**.00143**	**.0228**	**.00108**
Stddev	.00002	.01	.00012	.0027	.00002
%RSD	451.21	.00951	8.5984	11.86	1.4949
#1	-.00002	110.70	.00135	.0247	.00107
#2	.00001	110.71	.00152	.0209	.00109
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00034**	**.00455**	**.13039**	**.48906**	**.00093**
Stddev	.00027	.00094	.00341	.04072	.00028
%RSD	80.041	20.743	2.6119	8.3266	29.793
#1	.00054	.00388	.13280	.46027	.00113
#2	.00015	.00522	.12798	.51786	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-CSD@5 Acquired: 8/11/2021 2:37:05 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0988**	**.35440**	**-.00738**	**287.77**	**.00238**
Stddev	.0050	.00053	.00017	.35	.00004
%RSD	.16288	.14889	2.3389	.12078	1.8681
#1	3.1023	.35403	-.00726	288.01	.00235
#2	3.0952	.35478	-.00751	287.52	.00241
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.01298**	**.0659**	**-.00252**	**-.00523**
Stddev	-----	.00181	.0010	.00194	.00251
%RSD	-----	13.922	1.505	77.210	47.892
#1	z 174.5	.01425	.0666	-.00114	-.00346
#2	z 174.9	.01170	.0652	-.00389	-.00701
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.51259**	**.00034**	**.23844**	**-.0016**	**.00311**
Stddev	.03160	.00058	.00065	.0041	.00075
%RSD	6.1647	170.64	.27322	249.5	24.113
#1	.49025	.00075	.23890	-.0045	.00258
#2	.53494	-.00007	.23798	.0013	.00365
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-CSD@5 Acquired: 8/11/2021 2:37:05 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00015**	**.00017**	**.09876**	**.0004**
Stddev	.00090	.00023	.00103	.0009
%RSD	588.71	135.86	1.0438	229.3
#1	.00048	.00001	.09803	.0010
#2	-.00079	.00033	.09949	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3155.4**	**2636.7**	**54990.**	**3087.1**
Stddev	3.8	3.6	197.	1.5
%RSD	.12130	.13641	.35887	.04900
#1	3152.7	2634.1	55130.	3086.1
#2	3158.1	2639.2	54850.	3088.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.538%	92.385%	91.132%	98.959%
Range				

Sample Name: 480-187921-A-1-CPDS Acquired: 8/11/2021 2:40:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0996**	**.95131**	**1.1459**	**.21968**	**1.4169**
Stddev	.0032	.02844	.0062	.00027	.0006
%RSD	.28614	2.9897	.54108	.12084	.04242
#1	1.0974	.93119	1.1503	.21987	1.4164
#2	1.1019	.97142	1.1415	.21950	1.4173
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.99125**	**538.46**	**1.1393**	**.0292**	**1.0178**
Stddev	.00111	.37	.0003	.0125	.0002
%RSD	.11208	.06933	.02334	42.97	.01962
#1	.99204	538.72	1.1395	.0203	1.0179
#2	.99047	538.19	1.1391	.0381	1.0176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97991**	**1.0708**	**.67906**	**3.2491**	**.01001**
Stddev	.00128	.0002	.01550	.0149	.00047
%RSD	.13011	.01634	2.2822	.45821	4.7214
#1	.98082	1.0709	.66810	3.2385	.01035
#2	.97901	1.0707	.69002	3.2596	.00968
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-CPDS Acquired: 8/11/2021 2:40:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.023**	**2.7573**	**1.0417**	F **1483.7**	**1.0308**
Stddev	.019	.0012	.0025	2.0	.0018
%RSD	.12593	.04174	.23750	.13143	.17251
#1	15.036	2.7581	1.0400	1485.1	1.0320
#2	15.010	2.7565	1.0435	1482.4	1.0295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**1.0902**	**.4612**	**1.1478**	**1.1105**
Stddev	-----	.0002	.0040	.0035	.0013
%RSD	-----	.01621	.8635	.30693	.11918
#1	z 251.3	1.0904	.4584	1.1502	1.1096
#2	z 251.3	1.0901	.4640	1.1453	1.1115
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.7077**	**.00054**	**1.2213**	**.0063**	**.02532**
Stddev	.0140	.00002	.0004	.0137	.00593
%RSD	.51683	3.2110	.02855	216.7	23.433
#1	2.6978	.00053	1.2215	.0160	.02951
#2	2.7176	.00055	1.2210	-.0034	.02112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-CPDS Acquired: 8/11/2021 2:40:59 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.98483**	**1.0191**	**1.4820**	**.0006**
Stddev	.00132	.0005	.0030	.0005
%RSD	.13391	.04978	.20220	85.60
#1	.98389	1.0195	1.4841	.0002
#2	.98576	1.0188	1.4799	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2659.3**	**2376.0**	**49439.**	**3010.5**
Stddev	1.9	.6	66.	3.1
%RSD	.07170	.02523	.13325	.10354
#1	2657.9	2376.4	49393.	3012.7
#2	2660.6	2375.5	49486.	3008.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.402%	83.250%	81.933%	96.503%
Range				

Sample Name: 480-187921-A-1-D MS Acquired: 8/11/2021 2:44:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0795**	**.91657**	**1.1178**	**.21733**	**1.3926**
Stddev	.0005	.01775	.0006	.00045	.0090
%RSD	.04549	1.9368	.05181	.20684	.64466
#1	1.0791	.90402	1.1182	.21765	1.3862
#2	1.0798	.92912	1.1174	.21701	1.3989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.97466**	**534.76**	**1.1161**	**.0329**	**.99731**
Stddev	.00285	.50	.0019	.0357	.00028
%RSD	.29265	.09374	.16928	108.4	.02818
#1	.97264	535.12	1.1175	.0077	.99711
#2	.97668	534.41	1.1148	.0581	.99750
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.96022**	**1.0464**	**.63729**	**3.1881**	**.00751**
Stddev	.00537	.0001	.01010	.0058	.00001
%RSD	.55973	.00524	1.5849	.18145	.16842
#1	.95642	1.0464	.63015	3.1922	.00750
#2	.96402	1.0465	.64443	3.1840	.00752
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-D MS Acquired: 8/11/2021 2:44:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.053**	**2.7372**	**1.0279**	F **1475.4**	**1.0111**
Stddev	.065	.0078	.0019	6.2	.0001
%RSD	.43339	.28344	.18987	.42299	.00653
#1	15.007	2.7317	1.0265	1471.0	1.0112
#2	15.100	2.7427	1.0293	1479.8	1.0111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**1.0762**	**.4728**	**1.1402**	**1.0811**
Stddev	-----	.0015	.0035	.0058	.0014
%RSD	-----	.14338	.7312	.50844	.13377
#1	z 251.0	1.0751	.4752	1.1443	1.0801
#2	z 252.3	1.0773	.4703	1.1361	1.0821
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.6598**	**.00075**	**2.1605**	**-.0028**	**.02134**
Stddev	.0447	.00038	.0105	.0021	.00161
%RSD	1.6792	50.720	.48801	74.73	7.5307
#1	2.6282	.00102	2.1530	-.0013	.02020
#2	2.6913	.00048	2.1680	-.0042	.02248
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-D MS Acquired: 8/11/2021 2:44:53 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.96150**	**.99871**	**1.4629**	**.0010**
Stddev	.00055	.00472	.0078	.0002
%RSD	.05768	.47266	.53184	22.11
#1	.96111	.99537	1.4574	.0012
#2	.96190	1.0020	1.4684	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2665.3**	**2381.0**	**49209.**	**2987.5**
Stddev	3.2	4.9	200.	12.7
%RSD	.11867	.20676	.40543	.42359
#1	2663.0	2377.5	49350.	2996.4
#2	2667.5	2384.4	49068.	2978.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.561%	83.425%	81.551%	95.764%
Range				

Sample Name: 480-187921-A-1-E MSD Acquired: 8/11/2021 2:48:46 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0612**	**.83327**	**1.0992**	**.21277**	**1.3714**
Stddev	.0008	.00616	.0011	.00034	.0034
%RSD	.07360	.73886	.09810	.16065	.24729
#1	1.0618	.82892	1.1000	.21301	1.3738
#2	1.0607	.83762	1.0985	.21253	1.3690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.95993**	**530.97**	**1.1005**	**.0276**	**.98565**
Stddev	.00496	.26	.0038	.0128	.00100
%RSD	.51687	.04827	.34328	46.62	.10136
#1	.96344	531.16	1.1032	.0366	.98495
#2	.95642	530.79	1.0978	.0185	.98636
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.94663**	**1.0319**	**.61760**	**3.0944**	**.00942**
Stddev	.00247	.0003	.00381	.0123	.00075
%RSD	.26052	.02599	.61761	.39738	7.9216
#1	.94838	1.0317	.62030	3.0858	.00889
#2	.94489	1.0321	.61491	3.1031	.00994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-E MSD Acquired: 8/11/2021 2:48:46 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.866**	**2.7015**	**1.0160**	F **1452.5**	**.99926**
Stddev	.054	.0060	.0009	2.7	.00154
%RSD	.36104	.22389	.08676	.18468	.15393
#1	14.904	2.7058	1.0154	1454.4	.99817
#2	14.828	2.6973	1.0166	1450.6	1.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**1.0600**	**.4367**	**1.1250**	**1.0647**
Stddev	-----	.0000	.0016	.0047	.0118
%RSD	-----	.00350	.3707	.42092	1.1080
#1	z 250.4	1.0600	.4378	1.1284	1.0730
#2	z 250.7	1.0600	.4355	1.1217	1.0564
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.4350**	**-.00007**	**2.1283**	**-.0104**	**.01840**
Stddev	.1262	.00054	.0044	.0051	.00058
%RSD	5.1846	757.12	.20848	49.19	3.1366
#1	2.3457	-.00045	2.1315	-.0140	.01799
#2	2.5242	.00031	2.1252	-.0068	.01881
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187921-A-1-E MSD Acquired: 8/11/2021 2:48:46 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	.95103	.98501	1.4431	.0001
Stddev	.00423	.00118	.0106	.0009
%RSD	.44485	.11977	.73355	1212.
#1	.95402	.98584	1.4506	.0007
#2	.94804	.98418	1.4356	-.0006
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2669.8	2386.5	49342.	2994.6
Stddev	3.3	4.1	252.	8.6
%RSD	.12316	.17237	.51039	.28812
#1	2672.1	2383.6	49164.	3000.7
#2	2667.5	2389.4	49520.	2988.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	70.681%	83.618%	81.771%	95.994%
Range				

Sample Name: CCV-6603765 Acquired: 8/11/2021 2:52:40 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96937	49.637	.98983	1.0212	.96042	.98464	50.045	1.0150
Stddev	.00190	.341	.00226	.0014	.00545	.00445	.252	.0014
%RSD	.19600	.68604	.22859	.13973	.56770	.45243	.50314	.13976
#1	.97071	49.396	.98823	1.0222	.95656	.98149	49.867	1.0160
#2	.96802	49.877	.99143	1.0202	.96427	.98779	50.223	1.0140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9611	.96831	.98914	.98748	48.589	48.041	.93520	48.534
Stddev	.0059	.00002	.00171	.00230	.403	.151	.00468	.150
%RSD	.6126	.00241	.17297	.23288	.82902	.31415	.50078	.30985
#1	.9570	.96829	.99035	.98911	48.304	47.934	.93189	48.640
#2	.9653	.96832	.98793	.98585	48.874	48.148	.93851	48.428
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	.97716	1.0316	47.625	.98071	z *****	.97985	24.88	1.0103
Stddev	.00280	.0010	.293	.00023	-----	.00080	.00	.0005
%RSD	.28644	.10034	.61590	.02333	-----	.08183	.0125	.04871
#1	.97914	1.0308	47.417	.98055	z 8947.	.98042	24.88	1.0107
#2	.97518	1.0323	47.832	.98087	z 8949.	.97928	24.88	1.0100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/11/2021 2:52:40 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0033**	**9.8177**	**.97226**	**.97205**	**.9445**	**.98748**	**.98213**	**.99080**
Stddev	.0033	.0013	.00002	.00588	.0029	.00104	.00112	.00023
%RSD	.33261	.01305	.00231	.60469	.3087	.10536	.11384	.02285
#1	1.0009	9.8168	.97228	.96789	.9465	.98821	.98293	.99096
#2	1.0056	9.8186	.97225	.97621	.9424	.98674	.98134	.99064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.99621**	**.9675**
Stddev	.00638	.0028
%RSD	.64061	.2929
#1	.99170	.9695
#2	1.0007	.9655
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3294.1**	**2757.4**	**57391.**	**3103.5**
Stddev	1.4	.6	33.	11.9
%RSD	.04185	.02002	.05716	.38347
#1	3295.1	2757.0	57368.	3111.9
#2	3293.2	2757.8	57414.	3095.0

Sample Name: CCB-6597963 Acquired: 8/11/2021 2:56:18 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.00839**	**.00447**	**-.00299**	**.00008**	**.00002**	**-.00057**	**-.00019**
Stddev	.00028	.01404	.00190	.00047	.00002	.00007	.00046	.00011
%RSD	655.08	167.36	42.433	15.705	21.404	399.63	80.831	59.427
#1	-.00024	-.00154	.00581	-.00332	.00007	.00006	-.00089	-.00011
#2	.00015	.01832	.00313	-.00266	.00009	-.00003	-.00024	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0195**	**.00012**	**-.00013**	**-.00004**	**.00462**	**-.13970**	**-.00037**	**-.00038**
Stddev	.0117	.00001	.00002	.00002	.00248	.00405	.00049	.00067
%RSD	60.04	7.7300	18.700	58.926	53.660	2.8996	132.77	174.37
#1	.0278	.00013	-.00011	-.00006	.00638	-.14256	-.00002	-.00085
#2	.0112	.00011	-.00014	-.00002	.00287	-.13683	-.00071	.00009
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00000**	**.00409**	**.16196**	**-.00003**	z *****	**.00084**	**-.0067**	**.00149**
Stddev	.00004	.00146	.00902	.00013	-----	.00021	.0018	.00067
%RSD	142670.	35.735	5.5683	418.10	-----	24.917	26.63	45.025
#1	.00003	.00513	.15559	.00006	z 139.7	.00098	-.0054	.00102
#2	-.00003	.00306	.16834	-.00013	z 139.2	.00069	-.0079	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/11/2021 2:56:18 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00600**	**.00007**	**.00006**	**.00001**	**.0097**	**.00021**	**-.00007**	**-.00017**
Stddev	.00229	.01468	.00043	.00005	.0090	.00008	.00021	.00032
%RSD	38.111	19879.	743.12	635.61	92.91	36.243	290.89	192.41
#1	.00761	-.01030	.00036	-.00002	.0033	.00016	.00007	-.00039
#2	.00438	.01045	-.00024	.00004	.0161	.00026	-.00022	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00005**	**-.0002**
Stddev	.00025	.0002
%RSD	510.55	108.1
#1	.00022	-.0000
#2	-.00013	-.0003
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3835.4**	**2857.3**	**61455.**	**3165.4**
Stddev	3.1	.0	16.	19.8
%RSD	.08170	.00174	.02662	.62695
#1	3833.2	2857.4	61466.	3179.5
#2	3837.6	2857.3	61443.	3151.4

Sample Name: CCVL-6603764 Acquired: 8/11/2021 3:00:09 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00574**	**.20007**	**.01422**	**.01656**	**.00211**	**.00200**	**.50361**
Stddev	.00045	.02019	.00278	.00032	.00000	.00002	.00535
%RSD	7.7924	10.091	19.560	1.9204	.19165	1.0365	1.0618
#1	.00606	.18579	.01225	.01634	.00211	.00198	.49982
#2	.00542	.21434	.01619	.01679	.00211	.00201	.50739
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00203**	**.0114**	**.00383**	**.00404**	**.00959**	**.04273**	W **.33080**
Stddev	.00013	.0020	.00009	.00023	.00044	.00063	.02258
%RSD	6.4508	17.42	2.2455	5.6926	4.6180	1.4859	6.8243
#1	.00212	.0100	.00377	.00388	.00928	.04228	.31484
#2	.00193	.0128	.00390	.00420	.00990	.04318	.34677
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02689**	**.19377**	**.00308**	W **.00633**	**1.1058**	**.00951**	z *****
Stddev	.00027	.00096	.00005	.00021	.0007	.00040	-----
%RSD	1.0127	.49712	1.6165	3.3015	.06456	4.2111	-----
#1	.02670	.19445	.00305	.00648	1.1053	.00980	z 139.0
#2	.02708	.19309	.00312	.00618	1.1063	.00923	z 138.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None
Value				.01000			
Range				-30.000%			

Sample Name: CCVL-6603764 Acquired: 8/11/2021 3:00:09 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00968**	**.1875**	**.02078**	**.02560**	**.45518**	**.00887**	**.00478**
Stddev	.00046	.0019	.00071	.00095	.01140	.00009	.00003
%RSD	4.7803	1.036	3.3928	3.7060	2.5055	.97219	.54532
#1	.01001	.1889	.02128	.02493	.46324	.00893	.00476
#2	.00936	.1861	.02029	.02627	.44711	.00881	.00480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0079**	**.00450**	**.01815**	**.00468**	**.00925**	**.0009**
Stddev	.0012	.00020	.00004	.00028	.00021	.0012
%RSD	14.82	4.3304	.24684	6.0194	2.2311	131.3
#1	.0071	.00464	.01812	.00449	.00910	.0017
#2	.0087	.00437	.01818	.00488	.00939	.0001
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3814.2**	**2856.6**	**61514.**	**3167.8**
Stddev	.9	.1	111.	7.5
%RSD	.02292	.00198	.18060	.23798
#1	3813.6	2856.6	61436.	3173.1
#2	3814.8	2856.6	61593.	3162.5

Sample Name: 480-188005-B-1-C Acquired: 8/11/2021 3:04:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.24341**	**.00228**	**.24545**	**.17933**
Stddev	.00007	.01495	.00059	.00084	.00026
%RSD	45.426	6.1436	26.092	.34419	.14303
#1	.00022	.25399	.00270	.24485	.17914
#2	.00011	.23284	.00186	.24605	.17951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**189.29**	**.00280**	**.0046**	**.00274**
Stddev	.00002	.09	.00008	.0026	.00004
%RSD	71.316	.04785	2.9137	56.16	1.5344
#1	.00002	189.22	.00286	.0064	.00277
#2	.00005	189.35	.00275	.0028	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00223**	**.00274**	**.12798**	**1.7468**	**.00251**
Stddev	.00014	.00058	.00448	.0265	.00017
%RSD	6.1236	21.184	3.4987	1.5194	6.8783
#1	.00232	.00315	.12481	1.7656	.00264
#2	.00213	.00233	.13114	1.7280	.00239
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188005-B-1-C Acquired: 8/11/2021 3:04:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**80.190**	**.72339**	**-.00601**	F **1496.6**	**.00269**
Stddev	.211	.00045	.00043	1.3	.00002
%RSD	.26295	.06289	7.2197	.08579	.85048
#1	80.041	.72307	-.00632	1495.7	.00268
#2	80.339	.72372	-.00570	1497.5	.00271
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.11912**	**.2127**	**.00204**	**-.01205**
Stddev	-----	.00098	.0001	.00036	.00016
%RSD	-----	.82225	.0350	17.673	1.3306
#1	z 192.6	.11981	.2127	.00229	-.01216
#2	z 192.3	.11843	.2128	.00178	-.01194
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.77378**	**.00082**	**.15266**	**.0057**	**.00848**
Stddev	.00743	.00049	.00047	.0042	.00458
%RSD	.96071	59.288	.31036	74.15	54.002
#1	.77904	.00048	.15232	.0087	.01171
#2	.76852	.00117	.15299	.0027	.00524
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188005-B-1-C Acquired: 8/11/2021 3:04:00 Type: Unk
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00009**	**.00015**	**.12129**	**-.0016**
Stddev	.00163	.00001	.00113	.0002
%RSD	1811.0	8.8199	.92870	11.85
#1	.00124	.00014	.12208	-.0015
#2	-.00106	.00015	.12049	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2725.9**	**2404.5**	**49590.**	**3028.9**
Stddev	.5	.8	47.	3.9
%RSD	.01950	.03193	.09481	.13026
#1	2726.2	2405.1	49557.	3026.1
#2	2725.5	2404.0	49623.	3031.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	72.166%	84.250%	82.183%	97.092%
Range				

Sample Name: CCVL-6603764 Acquired: 8/11/2021 3:07:52 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00502**	**.20831**	**.01586**	**.01621**	**.00207**	**.00192**	**.49860**
Stddev	.00006	.00931	.00034	.00003	.00001	.00000	.00512
%RSD	1.1122	4.4699	2.1727	.15716	.57149	.05189	1.0274
#1	.00506	.21489	.01562	.01619	.00207	.00192	.49498
#2	.00498	.20172	.01610	.01623	.00208	.00192	.50223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00194**	**-.0183**	**.00394**	**.00420**	**.00928**	**.04652**	W **.29551**
Stddev	.00018	.0092	.00002	.00022	.00017	.00483	.00585
%RSD	9.2252	50.28	.46057	5.3145	1.8258	10.376	1.9798
#1	.00182	-.0248	.00395	.00404	.00916	.04310	.29137
#2	.00207	-.0118	.00392	.00436	.00940	.04993	.29965
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Warn
Value							.50000
Range							-30.000%

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02748**	**.19735**	**.00318**	F **.00367**	**1.1698**	**.00939**	z *****
Stddev	.00104	.00112	.00005	.00026	.0001	.00011	-----
%RSD	3.7783	.56755	1.4218	7.0844	.01064	1.1591	-----
#1	.02674	.19656	.00322	.00349	1.1699	.00947	z 138.3
#2	.02821	.19814	.00315	.00386	1.1698	.00932	z 138.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
Value				.01000			
Range				-50.000%			

Sample Name: CCVL-6603764 Acquired: 8/11/2021 3:07:52 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00977**	**.1867**	**.02088**	**.02451**	**.46581**	**.00871**	**.00478**
Stddev	.00142	.0014	.00003	.00132	.00054	.00017	.00000
%RSD	14.544	.7665	.13879	5.3886	.11649	1.9631	.06696
#1	.00876	.1857	.02086	.02544	.46543	.00883	.00478
#2	.01077	.1878	.02090	.02357	.46620	.00859	.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0038**	**.00441**	**.01749**	**.00482**	**.01016**	**.0018**
Stddev	.0005	.00011	.00003	.00028	.00007	.0009
%RSD	13.87	2.6076	.19220	5.7766	.68776	51.99
#1	.0035	.00432	.01751	.00463	.01021	.0011
#2	.0042	.00449	.01746	.00502	.01011	.0025
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3816.5**	**2849.3**	**60987.**	**3134.9**
Stddev	6.2	2.0	91.	9.4
%RSD	.16351	.06984	.14911	.29938
#1	3812.1	2847.9	61051.	3141.5
#2	3820.9	2850.7	60923.	3128.3

Sample Name: CCV-6603765 Acquired: 8/11/2021 3:11:43 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.97821**	**49.846**	**.99082**	**1.0249**	**.96215**	**.98764**	**50.184**	**1.0196**
Stddev	.00316	.173	.00337	.0011	.00211	.00191	.068	.0012
%RSD	.32346	.34681	.34056	.10778	.21934	.19318	.13508	.11411
#1	.98044	49.969	.99321	1.0242	.96364	.98899	50.232	1.0188
#2	.97597	49.724	.98844	1.0257	.96065	.98629	50.136	1.0205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.010**	**.96735**	**.99477**	**.98979**	**49.032**	**48.169**	**.94345**	**48.968**
Stddev	.029	.00075	.00272	.00371	.051	.019	.00359	.044
%RSD	2.883	.07727	.27299	.37447	.10423	.04032	.38023	.09007
#1	1.030	.96788	.99285	.99241	49.068	48.183	.94599	48.999
#2	.9890	.96682	.99669	.98717	48.996	48.155	.94092	48.937
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.98188**	**1.0184**	**48.111**	**.98105**	z *****	**.97706**	**24.90**	**1.0116**
Stddev	.00007	.0053	.152	.00089	-----	.00140	.03	.0003
%RSD	.00748	.52508	.31603	.09040	-----	.14296	.1271	.02691
#1	.98183	1.0146	48.219	.98167	z 8919.	.97608	24.93	1.0114
#2	.98193	1.0222	48.004	.98042	z 8927.	.97805	24.88	1.0118
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6603765 Acquired: 8/11/2021 3:11:43 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.99764	9.8334	.96729	.97700	.9568	.98790	.98402	.99228
Stddev	.00115	.0096	.00158	.00274	.0010	.00029	.00097	.00059
%RSD	.11501	.09730	.16284	.28002	.1007	.02961	.09871	.05983
#1	.99845	9.8266	.96840	.97893	.9561	.98769	.98334	.99186
#2	.99683	9.8402	.96618	.97506	.9574	.98811	.98471	.99270
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99404	.9855
Stddev	.00605	.0026
%RSD	.60874	.2655
#1	.98976	.9873
#2	.99832	.9836
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3293.1	2751.6	57633.	3110.1
Stddev	4.5	.8	6.	3.1
%RSD	.13525	.02753	.01114	.10029
#1	3290.0	2751.1	57637.	3112.3
#2	3296.3	2752.2	57628.	3107.9

Sample Name: CCB-6597963 Acquired: 8/11/2021 3:15:21 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.03322**	**.00140**	**-.00291**	**.00012**	**-.00009**	**-.00209**	**-.00007**
Stddev	.00035	.00232	.00088	.00018	.00002	.00004	.00266	.00008
%RSD	301.79	6.9868	62.955	6.1920	13.711	48.746	127.34	114.08
#1	-.00036	.03158	.00203	-.00278	.00011	-.00006	-.00397	-.00013
#2	.00013	.03486	.00078	-.00303	.00014	-.00012	-.00021	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0100**	**.00005**	**-.00019**	**.00020**	**.00405**	**-.15772**	**-.00008**	**.00162**
Stddev	.0042	.00002	.00011	.00014	.00489	.00646	.00014	.00227
%RSD	41.87	34.023	58.828	68.833	120.79	4.0932	169.04	140.15
#1	-.0129	.00004	-.00027	.00010	.00751	-.15316	.00002	.00001
#2	-.0070	.00006	-.00011	.00030	.00059	-.16229	-.00018	.00323
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00000**	**.00148**	**.11088**	**-.00007**	z *****	**.00040**	**.0002**	**.00147**
Stddev	.00004	.00134	.00962	.00009	-----	.00101	.0063	.00147
%RSD	1315.4	90.698	8.6717	125.37	-----	253.25	2909.	99.586
#1	.00002	.00243	.10408	-.00014	z 139.4	.00112	-.0042	.00251
#2	-.00003	.00053	.11768	-.00001	z 139.7	-.00032	.0046	.00044
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6597963 Acquired: 8/11/2021 3:15:21 Type: QC
Method: ICAP1 New Stds (v890) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00657	-.00052	-.00008	.00002	.0040	.00007	-.00112	-.00018
Stddev	.00038	.00105	.00051	.00001	.0018	.00017	.00014	.00001
%RSD	5.7154	203.82	635.99	76.666	45.74	239.67	12.838	3.9860
#1	.00631	.00023	-.00044	.00003	.0053	-.00005	-.00102	-.00017
#2	.00684	-.00126	.00028	.00001	.0027	.00019	-.00123	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00007	.0002
Stddev	.00016	.0020
%RSD	221.67	1204.
#1	.00018	.0016
#2	-.00004	-.0012
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3836.9	2845.2	61083.	3143.8
Stddev	2.7	4.5	121.	5.3
%RSD	.07093	.15828	.19838	.16915
#1	3838.8	2842.0	61169.	3140.1
#2	3834.9	2848.4	60997.	3147.6

Run File: I1081621A

Instrument: ICAP1

Analyst: ADM

Data Review: AMH 8/17/21

Spikes Ids:6353124(W1), 6353125(W2) 6531882(Sn), 6602574(Ag), 6560256(Si), 6560252(S), 6370646(TCLP)
Pipette Ids: 11/17/20-(1-11)
Internal Standard: 6615059

Seq#	Run File ID	Sample ID	Date / Time	Sample Type
1	I1081621A	ICIS-6615058	08/16/21 02:36 PM	Standard
2	I1081621A	IC-6615375	08/16/21 02:40 PM	Standard
3	I1081621A	IC-6611925	08/16/21 02:44 PM	Standard
4	I1081621A	IC-6582679	08/16/21 02:47 PM	Standard
5	I1081621A	ICV-6615060	08/16/21 02:51 PM	QC
6	I1081621A	ICB-6615058	08/16/21 02:55 PM	QC
7	I1081621A	ICVL-6615375	08/16/21 02:58 PM	QC
8	I1081621A	ICSA-6591058	08/16/21 03:02 PM	QC
9	I1081621A	ICSAB-6588769	08/16/21 03:06 PM	QC
10	I1081621A	ICEX1	08/16/21 03:10 PM	Unknown
11	I1081621A	ICEX2	08/16/21 03:14 PM	Unknown
12	I1081621A	ICEX3	08/16/21 03:18 PM	Unknown
13	I1081621A	ICEX4	08/16/21 03:22 PM	Unknown
14	I1081621A	ICEX5	08/16/21 03:26 PM	Unknown
15	I1081621A	CCV-6611925	08/16/21 03:30 PM	QC
16	I1081621A	CCB-6615058	08/16/21 03:34 PM	QC
17	I1081621A	CCVL-6615375	08/16/21 03:55 PM	QC
18	I1081621A	MB 480-592747/1-A	08/16/21 03:59 PM	Unknown
19	I1081621A	LCS 480-592747/2-A	08/16/21 04:03 PM	Unknown
20	I1081621A	480-188244-C-1-A	08/16/21 04:07 PM	Unknown
21	I1081621A	480-188244-C-1-ASD@5	08/16/21 04:11 PM	Unknown
22	I1081621A	480-188244-C-1-APDs	08/16/21 04:15 PM	Unknown
23	I1081621A	480-188244-C-1-B MS	08/16/21 04:18 PM	Unknown
24	I1081621A	480-188244-C-1-C MSD	08/16/21 04:22 PM	Unknown
25	I1081621A	480-188244-C-2-A	08/16/21 04:26 PM	Unknown
26	I1081621A	480-188244-C-3-A	08/16/21 04:30 PM	Unknown
27	I1081621A	CCV-6611925	08/16/21 04:34 PM	QC
28	I1081621A	CCB-6615058	08/16/21 04:37 PM	QC
29	I1081621A	CCVL-6615375	08/16/21 04:41 PM	QC
30	I1081621A	480-188244-C-4-A	08/16/21 04:45 PM	Unknown
31	I1081621A	480-188244-C-5-A	08/16/21 04:49 PM	Unknown
32	I1081621A	480-188244-C-6-A	08/16/21 04:53 PM	Unknown
33	I1081621A	480-188244-C-7-A	08/16/21 04:57 PM	Unknown
34	I1081621A	480-188244-C-8-A	08/16/21 05:01 PM	Unknown
35	I1081621A	480-188244-C-9-A	08/16/21 05:04 PM	Unknown
36	I1081621A	480-188250-B-2-A	08/16/21 05:08 PM	Unknown
37	I1081621A	480-188250-B-6-A	08/16/21 05:12 PM	Unknown
38	I1081621A	480-188220-A-1-A@5	08/16/21 05:16 PM	Unknown
39	I1081621A	CCV-6611925	08/16/21 05:20 PM	QC
40	I1081621A	CCB-6615058	08/16/21 05:24 PM	QC
41	I1081621A	CCVL-6615375	08/16/21 05:28 PM	QC
42	I1081621A	188220-A-1-ASD@25	08/16/21 05:31 PM	Unknown

43	I1081621A	188220-A-1-APDS@5	08/16/21 05:35 PM	Unknown
44	I1081621A	188220-A-1-B MS@5	08/16/21 05:39 PM	Unknown
45	I1081621A	188220-A-1-C MSD@5	08/16/21 05:43 PM	Unknown
46	I1081621A	480-188246-E-1-A@5	08/16/21 05:47 PM	Unknown
47	I1081621A	480-188246-E-2-A@10	08/16/21 05:51 PM	Unknown
48	I1081621A	480-188246-E-3-A@5	08/16/21 05:55 PM	Unknown
49	I1081621A	480-188246-E-4-A@5	08/16/21 05:58 PM	Unknown
50	I1081621A	480-188186-D-1-A@10	08/16/21 06:02 PM	Unknown
51	I1081621A	CCV-6611925	08/16/21 06:06 PM	QC
52	I1081621A	CCB-6615058	08/16/21 06:10 PM	QC
53	I1081621A	CCVL-6615375	08/16/21 06:14 PM	QC
54	I1081621A	MB 480-592916/1-A	08/16/21 06:18 PM	Unknown
55	I1081621A	LCS 480-592916/2-A	08/16/21 06:22 PM	Unknown
56	I1081621A	480-187744-C-2-E	08/16/21 06:26 PM	Unknown
57	I1081621A	480-187744-C-4-E	08/16/21 06:30 PM	Unknown
58	I1081621A	480-188110-A-2-C	08/16/21 06:33 PM	Unknown
59	I1081621A	480-188110-A-3-C	08/16/21 06:37 PM	Unknown
60	I1081621A	480-188110-A-4-C	08/16/21 06:41 PM	Unknown
61	I1081621A	480-188110-A-5-C	08/16/21 06:45 PM	Unknown
62	I1081621A	480-188110-A-6-C	08/16/21 06:49 PM	Unknown
63	I1081621A	CCV-6611925	08/16/21 06:53 PM	QC
64	I1081621A	CCB-6615058	08/16/21 06:56 PM	QC
65	I1081621A	CCVL-6615375	08/16/21 07:00 PM	QC
66	I1081621A	480-188110-A-7-C	08/16/21 07:04 PM	Unknown
67	I1081621A	480-188125-C-1-E	08/16/21 07:08 PM	Unknown
68	I1081621A	480-188125-C-2-C	08/16/21 07:12 PM	Unknown
69	I1081621A	480-188125-C-3-G	08/16/21 07:16 PM	Unknown
70	I1081621A	480-188125-C-3-GSD@5	08/16/21 07:20 PM	Unknown
71	I1081621A	480-188125-C-3-GPDs	08/16/21 07:23 PM	Unknown
72	I1081621A	480-188125-C-3-H MS	08/16/21 07:27 PM	Unknown
73	I1081621A	480-188125-C-3-I MSD	08/16/21 07:31 PM	Unknown
74	I1081621A	480-188125-C-4-C	08/16/21 07:35 PM	Unknown
75	I1081621A	CCV-6611925	08/16/21 07:39 PM	QC
76	I1081621A	CCB-6615058	08/16/21 07:42 PM	QC
77	I1081621A	CCVL-6615375	08/16/21 07:46 PM	QC
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80	I1081621A	680-202683-A-9-A	08/16/21 07:58 PM	Unknown
81	I1081621A	680-202683-A-10-A	08/16/21 08:02 PM	Unknown
82	I1081621A	680-202683-A-11-A	08/16/21 08:06 PM	Unknown
83	I1081621A	680-202683-A-12-A	08/16/21 08:10 PM	Unknown
84	I1081621A	680-202683-A-13-A	08/16/21 08:14 PM	Unknown
85	I1081621A	680-202683-A-14-A	08/16/21 08:18 PM	Unknown
86	I1081621A	MB 480-592922/1-A	08/16/21 08:22 PM	Unknown
87	I1081621A	CCV-6611925	08/16/21 08:25 PM	QC
88	I1081621A	CCB-6615058	08/16/21 08:29 PM	QC
89	I1081621A	CCVL-6615375	08/16/21 08:33 PM	QC
90	I1081621A	LCS 480-592922/2-A	08/16/21 08:37 PM	Unknown
91	I1081621A	480-187937-C-1-D	08/16/21 08:41 PM	Unknown
92	I1081621A	480-188016-B-2-C	08/16/21 08:45 PM	Unknown
93	I1081621A	480-188016-B-3-C	08/16/21 08:48 PM	Unknown
94	I1081621A	480-188016-B-9-C	08/16/21 08:52 PM	Unknown

95	I1081621A	480-188016-B-10-C	08/16/21 08:56 PM	Unknown
96	I1081621A	480-188016-B-11-C	08/16/21 09:00 PM	Unknown
97	I1081621A	480-188019-AK-2-E	08/16/21 09:04 PM	Unknown
98	I1081621A	480-188277-C-2-A	08/16/21 09:08 PM	Unknown
99	I1081621A	CCV-6611925	08/16/21 09:12 PM	QC
100	I1081621A	CCB-6615058	08/16/21 09:15 PM	QC
101	I1081621A	CCVL-6615375	08/16/21 09:19 PM	QC
102	I1081621A	480-188277-C-2-ASD@5	08/16/21 09:23 PM	Unknown
103	I1081621A	480-188277-C-2-APDS	08/16/21 09:27 PM	Unknown
104	I1081621A	480-188277-C-2-B MS	08/16/21 09:31 PM	Unknown
105	I1081621A	480-188277-C-2-C MSD	08/16/21 09:35 PM	Unknown
106	I1081621A	MB 480-592915/1-A	08/16/21 09:38 PM	Unknown
107	I1081621A	LCS 480-592915/2-A	08/16/21 09:42 PM	Unknown
108	I1081621A	480-188294-C-1-A	08/16/21 09:46 PM	Unknown
109	I1081621A	480-188294-C-1-ASD@5	08/16/21 09:50 PM	Unknown
110	I1081621A	480-188294-C-1-APDS	08/16/21 09:54 PM	Unknown
111	I1081621A	CCV-6611925	08/16/21 09:57 PM	QC
112	I1081621A	CCB-6615058	08/16/21 10:01 PM	QC
113	I1081621A	CCVL-6615375	08/16/21 10:05 PM	QC
114	I1081621A	480-188294-C-1-B MS	08/16/21 10:09 PM	Unknown
115	I1081621A	480-188294-C-1-C MSD	08/16/21 10:12 PM	Unknown
116	I1081621A	480-188294-C-2-A	08/16/21 10:16 PM	Unknown
117	I1081621A	480-188294-C-3-A	08/16/21 10:20 PM	Unknown
118	I1081621A	480-188294-C-4-A	08/16/21 10:24 PM	Unknown
119	I1081621A	480-188297-C-1-A	08/16/21 10:28 PM	Unknown
120	I1081621A	480-188311-E-1-A	08/16/21 10:32 PM	Unknown
121	I1081621A	480-188311-E-2-A	08/16/21 10:36 PM	Unknown
122	I1081621A	480-188311-E-3-A	08/16/21 10:39 PM	Unknown
123	I1081621A	CCV-6611925	08/16/21 10:44 PM	QC
124	I1081621A	CCB-6615058	08/16/21 10:47 PM	QC
125	I1081621A	CCVL-6615375	08/16/21 10:51 PM	QC
126	I1081621A	480-188311-E-4-A	08/16/21 10:55 PM	Unknown
127	I1081621A	480-188311-E-5-A	08/16/21 10:59 PM	Unknown
128	I1081621A	480-188311-E-6-A	08/16/21 11:03 PM	Unknown
129	I1081621A	480-188311-E-7-A	08/16/21 11:07 PM	Unknown
130	I1081621A	480-188311-E-8-A	08/16/21 11:11 PM	Unknown
131	I1081621A	480-188313-E-1-A	08/16/21 11:15 PM	Unknown
132	I1081621A	480-188313-E-2-A	08/16/21 11:19 PM	Unknown
133	I1081621A	480-188313-E-3-A	08/16/21 11:23 PM	Unknown
134	I1081621A	480-188270-L-1-A	08/16/21 11:27 PM	Unknown
135	I1081621A	CCV-6611925	08/16/21 11:30 PM	QC
136	I1081621A	CCB-6615058	08/16/21 11:34 PM	QC
137	I1081621A	CCVL-6615375	08/16/21 11:38 PM	QC
138	I1081621A	480-188315-M-1-A	08/16/21 11:42 PM	Unknown
139	I1081621A	480-188256-C-1-A	08/16/21 11:46 PM	Unknown
140	I1081621A	480-188296-C-1-A@100	08/16/21 11:50 PM	Unknown
141	I1081621A	CCVL-6615375	08/16/21 11:54 PM	QC
142	I1081621A	CCV-6611925	08/16/21 11:57 PM	QC
143	I1081621A	CCB-6615058	08/17/21 12:01 AM	QC

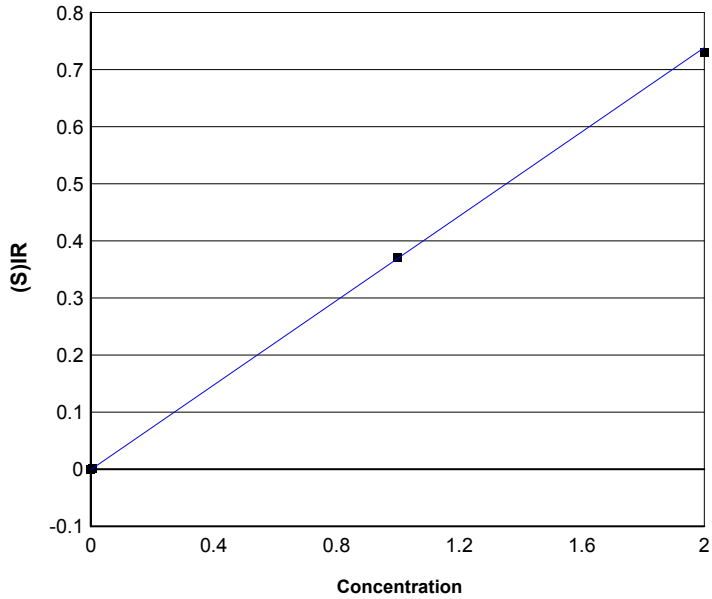
I1081621A

Author: ADM

Published: 8/17/2021 8:19:35AM

Instrument Name: iCAP1 Serial Number: 20094603

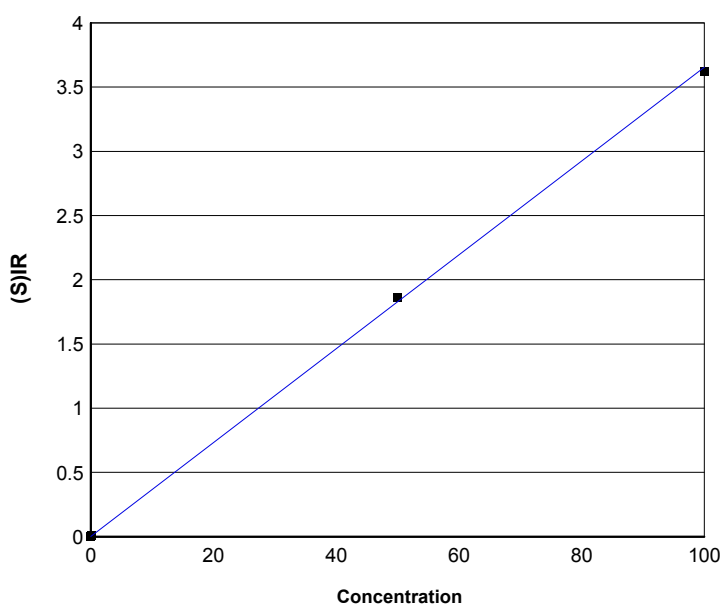
Method Name: ICAP1 New Stds (897)



Element Name:	Ag
Element Wavelength:	Ag 328.068 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00037539
A1 (Gain):	0.36946
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

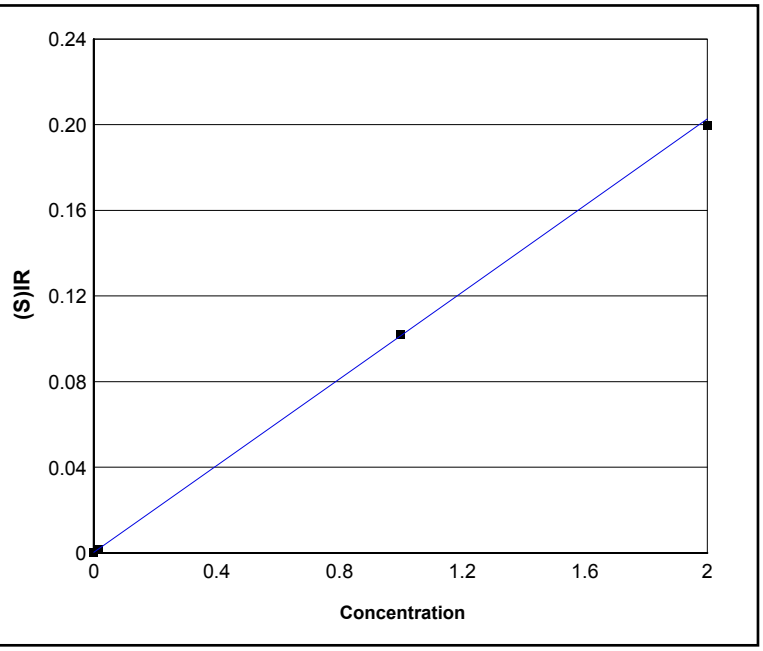
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000002313	-0.0000002313	0.00000	-0.00037548	0.00010296	1
IC-6615375	0.0060000	0.0061956	0.00019562	3.2604	0.0019137	0.000057964	1
IC-6611925	1.0000	1.0121	0.012079	1.2079	0.37111	0.000036291	1
IC-6582679	2.0000	1.9877	-0.012276	-0.61381	0.72913	0.00093093	1



Element Name:	Al
Element Wavelength:	Al 308.215 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.0014617
A1 (Gain):	0.036543
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

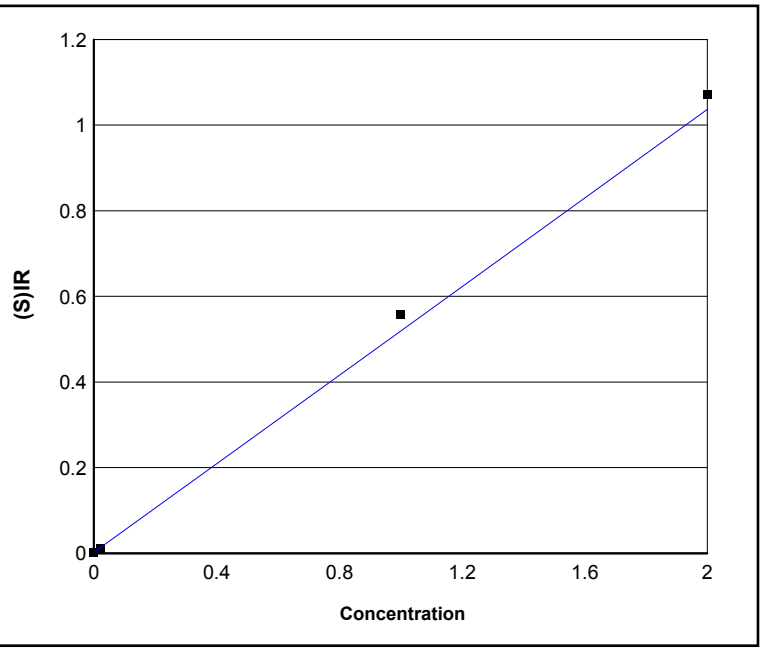
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.000031698	0.000031698	0.00000	0.0014629	0.00018436	1
IC-6615375	0.20000	0.16616	-0.033844	-16.922	0.0075335	0.00042947	1
IC-6611925	50.000	51.039	1.0390	2.0781	1.8666	0.010936	1
IC-6582679	100.00	98.995	-1.0052	-1.0052	3.6190	0.0046784	1



Element Name:	As
Element Wavelength:	As 189.042 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.00024814
A1 (Gain):	0.10121
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

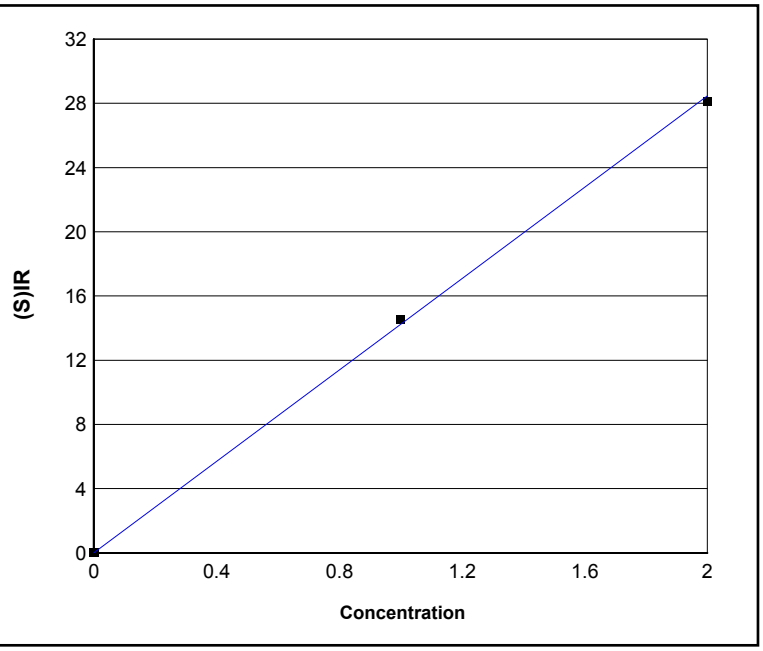
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000015654	0.0000015654	0.00000	0.00024830	0.00012431	1
IC-6615375	0.015000	0.013309	-0.0016906	-11.270	0.0015916	0.000041403	1
IC-6611925	1.0000	1.0150	0.014980	1.4980	0.10206	0.00012417	1
IC-6582679	2.0000	1.9867	-0.013279	-0.66393	0.19949	0.000061710	1



Element Name:	B
Element Wavelength:	B 208.959 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99981
A0 (Offset):	0.0021208
A1 (Gain):	0.51720
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

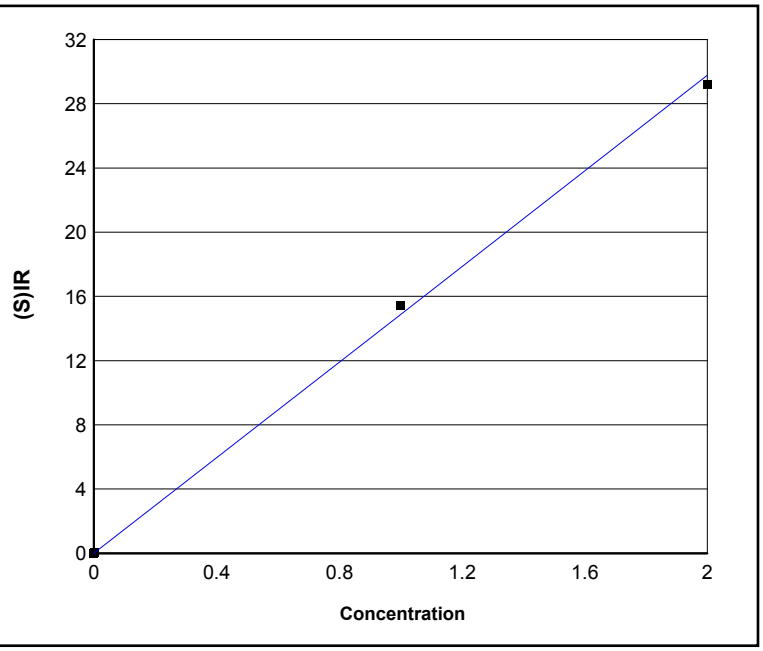
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000014563	0.0000014563	0.00000	0.0021215	0.00018270	1
IC-6615375	0.020000	0.018246	-0.0017539	-8.7694	0.011801	0.000096016	1
IC-6611925	1.0000	1.0280	0.028045	2.8045	0.55814	0.00020811	1
IC-6582679	2.0000	1.9737	-0.026331	-1.3165	1.0715	0.0021740	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	0.015115
A1 (Gain):	14.221
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

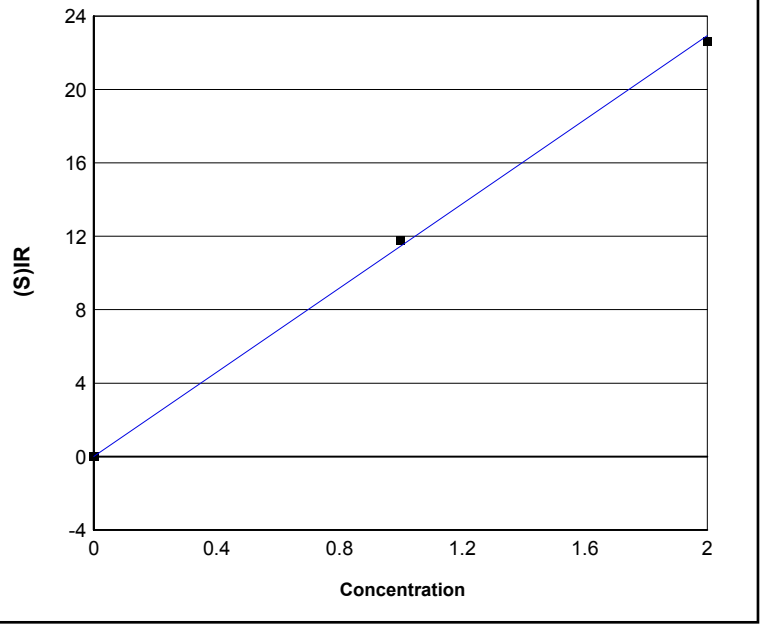
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000001390	0.0000001390	0.00000	0.015117	0.00019632	1
IC-6615375	0.0020000	0.0018387	-0.00016127	-8.0635	0.041263	0.0017116	1
IC-6611925	1.0000	1.0221	0.022081	2.2081	14.550	0.061754	1
IC-6582679	2.0000	1.9781	-0.021919	-1.0960	28.145	0.075289	1



Element Name:	Ba
Element Wavelength:	Ba 455.403 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99965
A0 (Offset):	0.0030584
A1 (Gain):	14.882
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

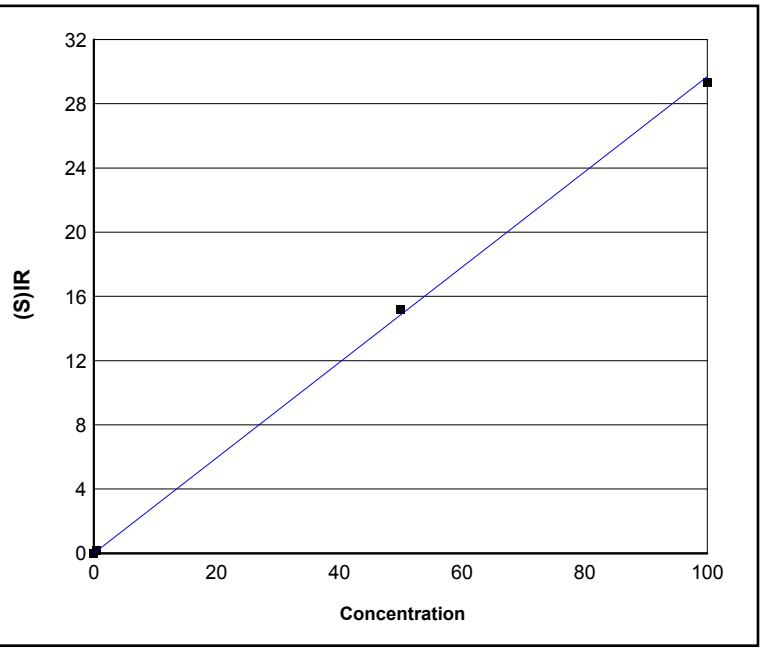
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000001585	-0.0000001585	0.00000	0.0030561	0.000028806	1
IC-6615375	0.0020000	0.0021212	0.00012123	6.0616	0.034627	0.00015393	1
IC-6611925	1.0000	1.0374	0.037412	3.7412	15.442	0.035967	1
IC-6582679	2.0000	1.9625	-0.037533	-1.8766	29.209	0.19318	1



Element Name:	Be
Element Wavelength:	Be 313.042 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	-0.000095286
A1 (Gain):	11.465
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

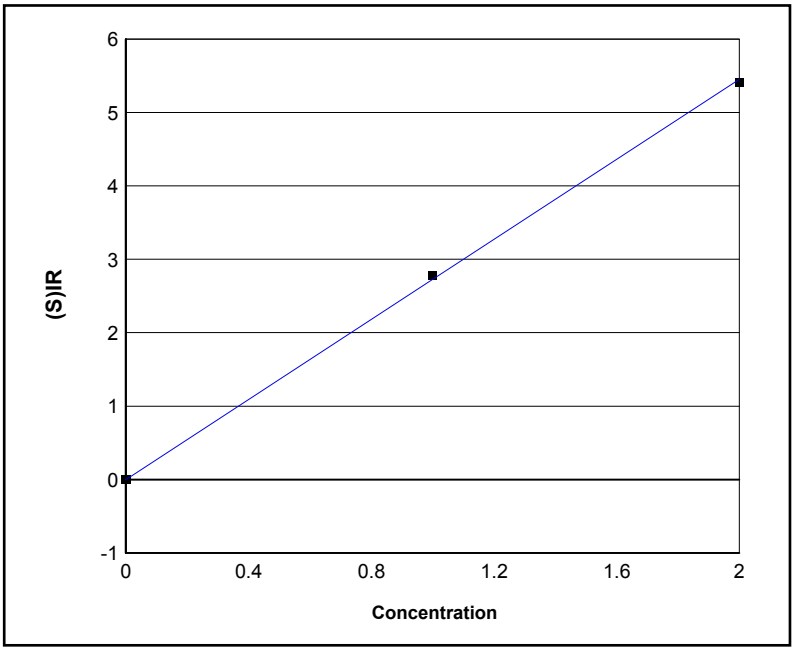
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000000123	0.0000000123	0.00000	-0.000095144	0.00011299	1
IC-6615375	0.0020000	0.0019605	-0.000039532	-1.9766	0.022340	0.0011356	1
IC-6611925	1.0000	1.0272	0.027166	2.7166	11.768	0.067302	1
IC-6582679	2.0000	1.9729	-0.027127	-1.3563	22.603	0.013912	1



Element Name:	Ca
Element Wavelength:	Ca 317.933 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99986
A0 (Offset):	0.013186
A1 (Gain):	0.29679
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

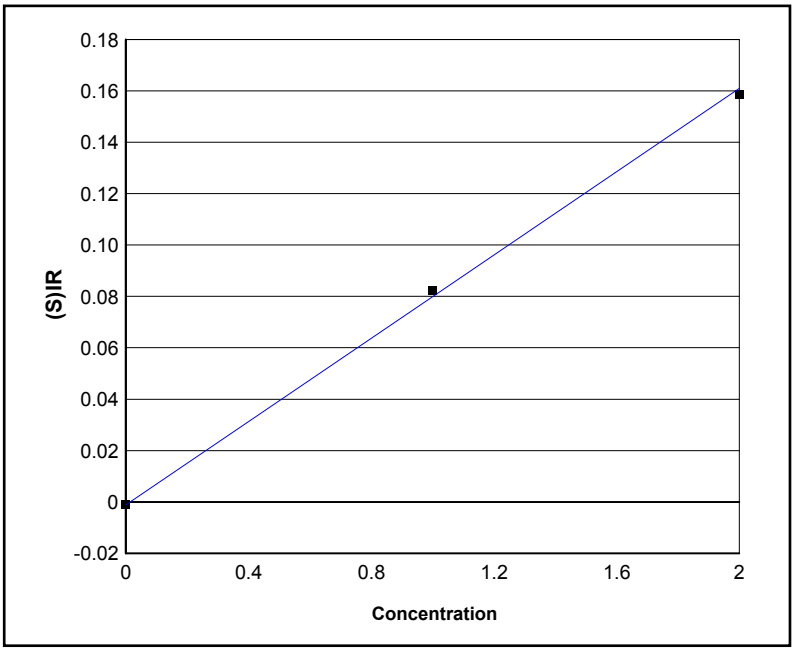
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000015234	-0.0000015234	0.00000	0.013185	0.0018041	1
IC-6615375	0.50000	0.49551	-0.0044872	-0.89744	0.16025	0.00020864	1
IC-6611925	50.000	51.198	1.1976	2.3953	15.208	0.049366	1
IC-6582679	100.00	98.807	-1.1931	-1.1931	29.338	0.0081748	1



Element Name:	Cd
Element Wavelength:	Cd 228.802 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00028408
A1 (Gain):	2.7263
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

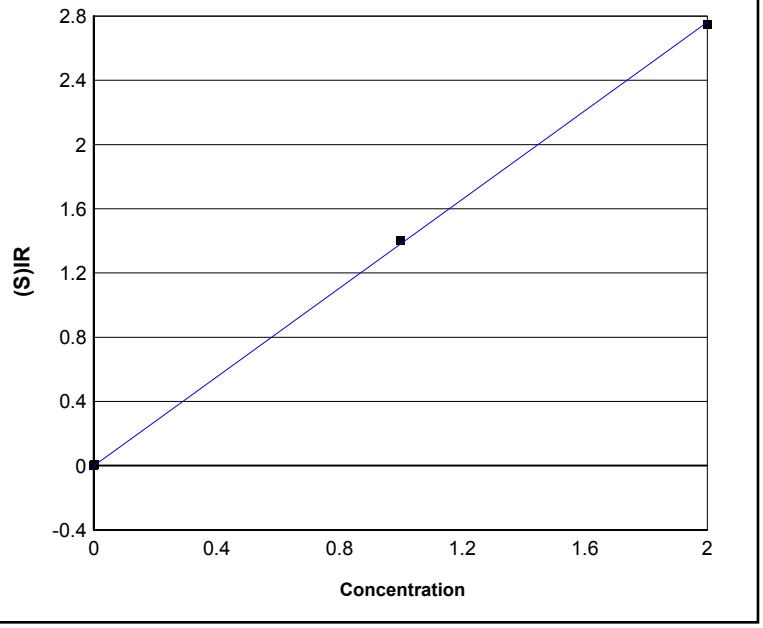
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000000738	0.0000000738	0.00000	-0.00028388	0.00039358	1
IC-6615375	0.0020000	0.0019076	-0.000092375	-4.6188	0.0049841	0.00022527	1
IC-6611925	1.0000	1.0185	0.018466	1.8466	2.7809	0.00018841	1
IC-6582679	2.0000	1.9816	-0.018372	-0.91862	5.4112	0.0091389	1



Element Name:	Ce
Element Wavelength:	Ce 404.076 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.9998
A0 (Offset):	-0.001097
A1 (Gain):	0.08107
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

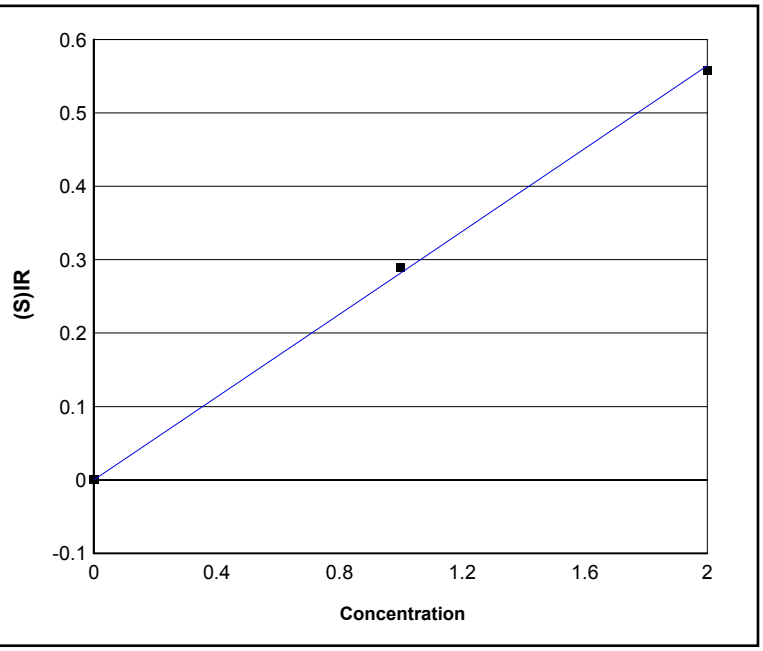
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000	-0.00001472	-0.00001472	0.0000	-0.001098	0.0001811	1
IC-6611925	1.000	1.029	0.02943	2.943	0.08236	0.0001167	1
IC-6582679	2.000	1.971	-0.02943	-1.472	0.1587	0.0001899	1



Element Name:	Co
Element Wavelength:	Co 228.616 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99996
A0 (Offset):	-0.00019704
A1 (Gain):	1.3809
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

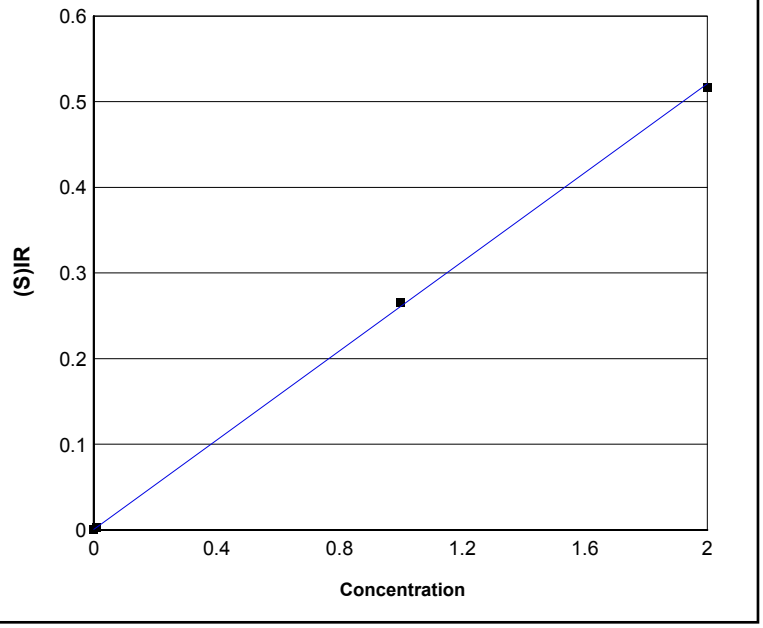
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000001188	0.0000001188	0.00000	-0.00019688	0.00018659	1
IC-6615375	0.0040000	0.0038543	-0.00014570	-3.6425	0.0051206	0.00015380	1
IC-6611925	1.0000	1.0133	0.013300	1.3300	1.3996	0.00039990	1
IC-6582679	2.0000	1.9868	-0.013155	-0.65773	2.7445	0.0054810	1



Element Name:	Cr
Element Wavelength:	Cr 267.716 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	-0.000012197
A1 (Gain):	0.28209
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

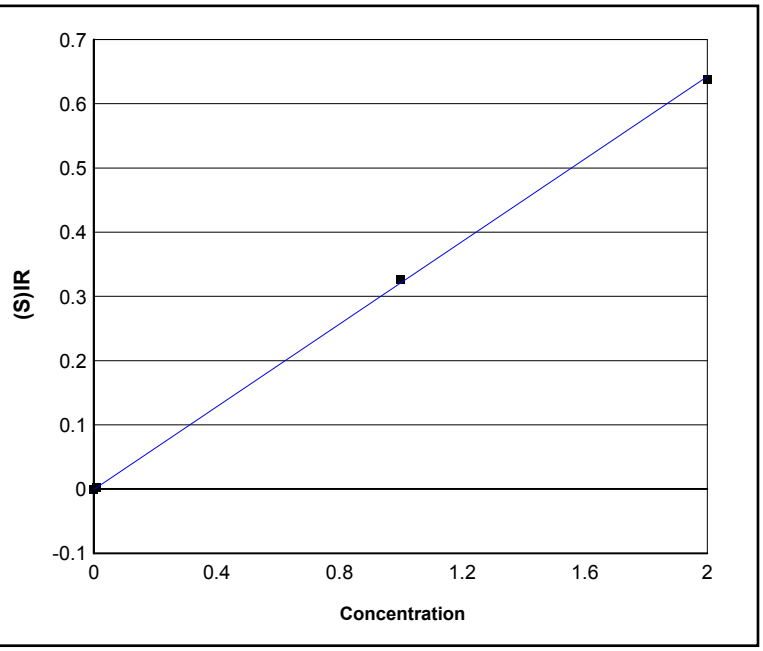
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000002064	-0.0000002064	0.00000	-0.000012255	0.0000095069	1
IC-6615375	0.0040000	0.0041533	0.00015325	3.8314	0.0011597	0.0000001694	1
IC-6611925	1.0000	1.0267	0.026740	2.6740	0.28982	0.00034025	1
IC-6582679	2.0000	1.9731	-0.026893	-1.3447	0.55698	0.0016915	1



Element Name:	Cu
Element Wavelength:	Cu 324.754 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99990
A0 (Offset):	0.00079790
A1 (Gain):	0.26010
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

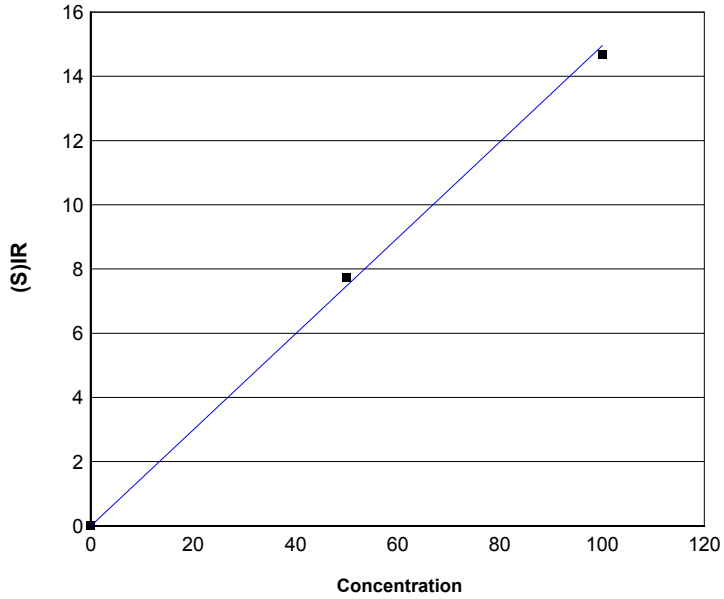
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000005457	0.0000005457	0.00000	0.00079804	0.000019440	1
IC-6615375	0.010000	0.0093555	-0.00064452	-6.4452	0.0032313	0.000043856	1
IC-6611925	1.0000	1.0191	0.019125	1.9125	0.26587	0.00060703	1
IC-6582679	2.0000	1.9815	-0.018480	-0.92401	0.51619	0.000020633	1



Element Name:	Cu
Element Wavelength:	Cu 327.396 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.00040523
A1 (Gain):	0.32144
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

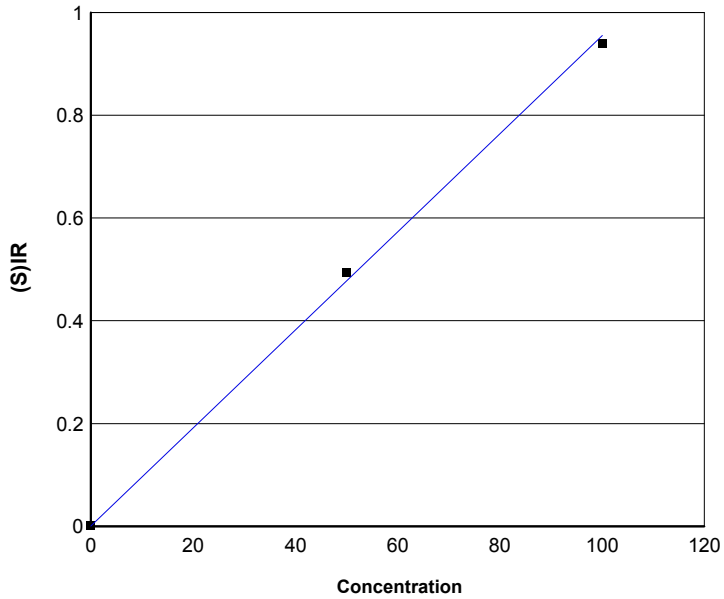
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000003302	0.0000003302	0.00000	-0.00040513	0.000052949	1
IC-6615375	0.010000	0.0095980	-0.00040198	-4.0198	0.0026811	0.000056043	1
IC-6611925	1.0000	1.0140	0.013952	1.3952	0.32564	0.00085151	1
IC-6582679	2.0000	1.9865	-0.013550	-0.67749	0.63836	0.00070086	1



Element Name:	Fe
Element Wavelength:	Fe 259.940 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99967
A0 (Offset):	0.0014581
A1 (Gain):	0.14947
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

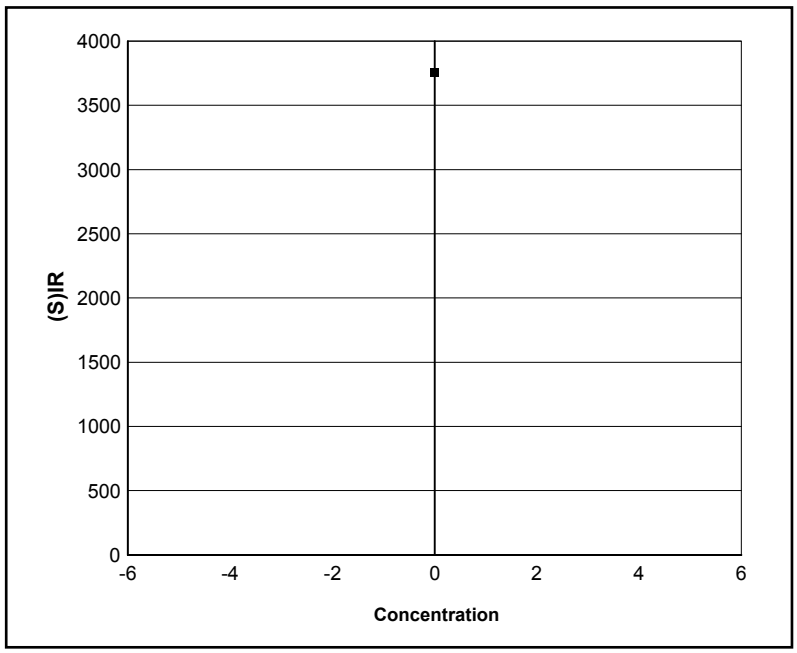
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000042378	0.0000042378	0.00000	0.0014587	0.00036596	1
IC-6615375	0.050000	0.044859	-0.0051408	-10.282	0.0081632	0.00029483	1
IC-6611925	50.025	51.827	1.8018	3.6017	7.7480	0.038506	1
IC-6582679	100.05	98.253	-1.7966	-1.7957	14.687	0.0079825	1



Element Name:	Fe
Element Wavelength:	Fe 271.441 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99936
A0 (Offset):	0.00081164
A1 (Gain):	0.0095425
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

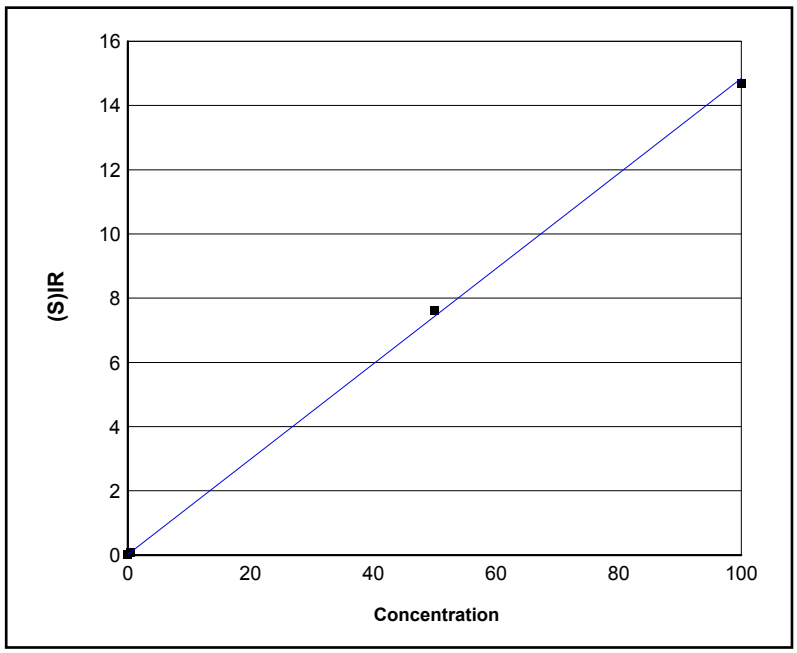
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.000072873	0.000072873	0.00000	0.00081234	0.00054813	1
IC-6615375	0.050000	-0.023751	-0.073751	-147.50	0.00058500	0.000038035	1
IC-6611925	50.025	51.707	1.6817	3.3618	0.49422	0.0010605	1
IC-6582679	100.05	98.442	-1.6080	-1.6072	0.94020	0.00082644	1



Element Name:	In
Element Wavelength:	In 230.606 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:40:02PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

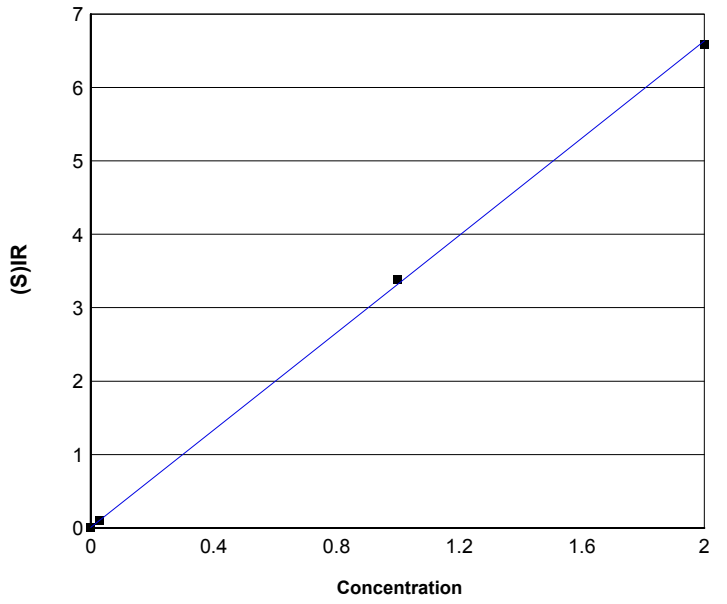
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000			0.0000	3,757	6.930	1



Element Name:	K
Element Wavelength:	K 766.490 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99985
A0 (Offset):	0.023260
A1 (Gain):	0.14827
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

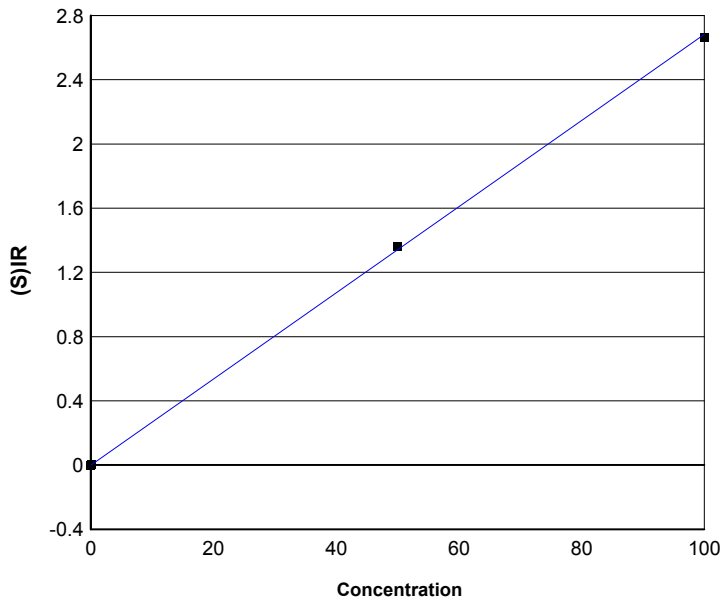
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.000054571	0.000054571	0.00000	0.023268	0.0013688	1
IC-6615375	0.50000	0.43936	-0.060638	-12.128	0.088404	0.00050580	1
IC-6611925	50.000	51.153	1.1527	2.3053	7.6076	0.032620	1
IC-6582679	100.00	98.908	-1.0920	-1.0920	14.688	0.0016996	1



Element Name:	Li
Element Wavelength:	Li 670.784 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99987
A0 (Offset):	0.0064798
A1 (Gain):	3.3146
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

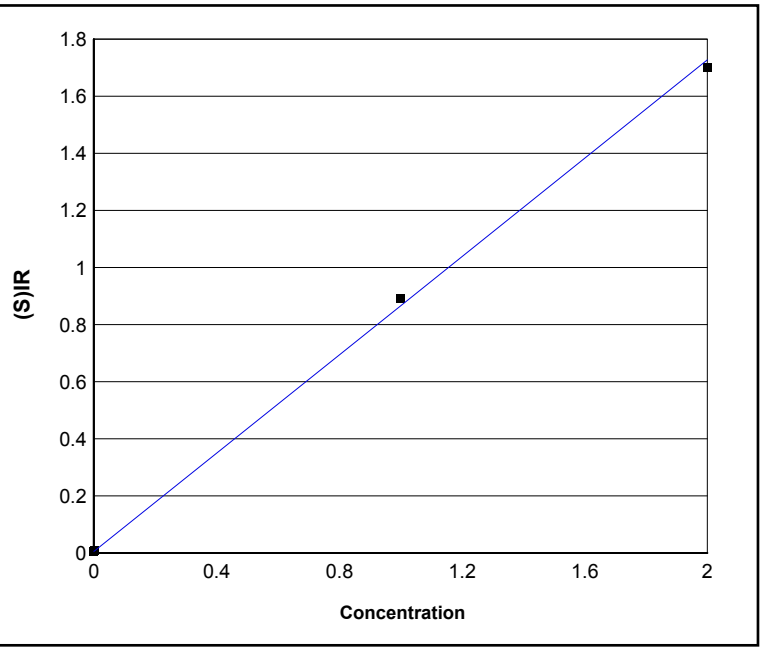
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000027262	0.0000027262	0.00000	0.0064888	0.0030936	1
IC-6615375	0.030000	0.026947	-0.0030526	-10.175	0.095799	0.00076900	1
IC-6611925	1.0000	1.0187	0.018708	1.8708	3.3831	0.017986	1
IC-6582679	2.0000	1.9843	-0.015656	-0.78279	6.5838	0.016410	1



Element Name:	Mg
Element Wavelength:	Mg 279.079 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	-0.0000093967
A1 (Gain):	0.026818
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

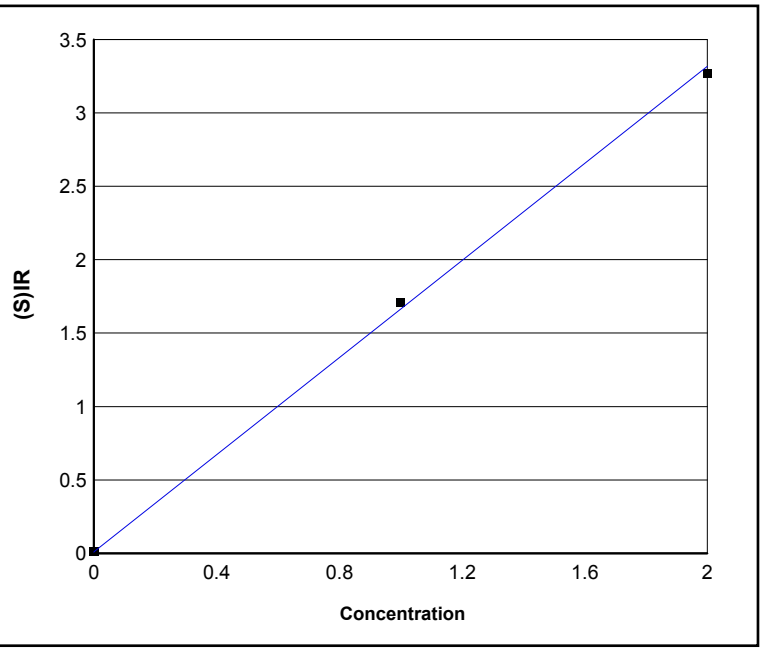
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000050107	0.0000050107	0.00000	-0.0000092623	0.000089444	1
IC-6615375	0.20000	0.19355	-0.0064460	-3.2230	0.0051810	0.000053286	1
IC-6611925	50.000	50.711	0.71120	1.4224	1.3599	0.0021743	1
IC-6582679	100.00	99.295	-0.70475	-0.70475	2.6627	0.010550	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99976
A0 (Offset):	0.0052252
A1 (Gain):	0.86098
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

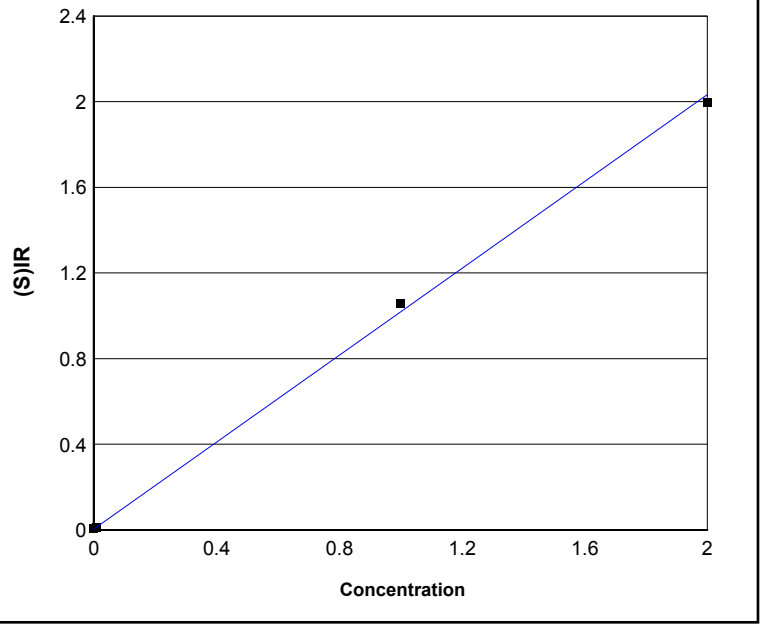
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000001125	0.0000001125	0.00000	0.0052253	0.000076940	1
IC-6615375	0.0030000	0.0028412	-0.00015875	-5.2918	0.0076712	0.00051694	1
IC-6611925	1.0000	1.0307	0.030663	3.0663	0.89227	0.0013379	1
IC-6582679	2.0000	1.9695	-0.030504	-1.5252	1.7002	0.00049804	1



Element Name:	Mn
Element Wavelength:	Mn 257.610 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99982
A0 (Offset):	0.0093226
A1 (Gain):	1.6540
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

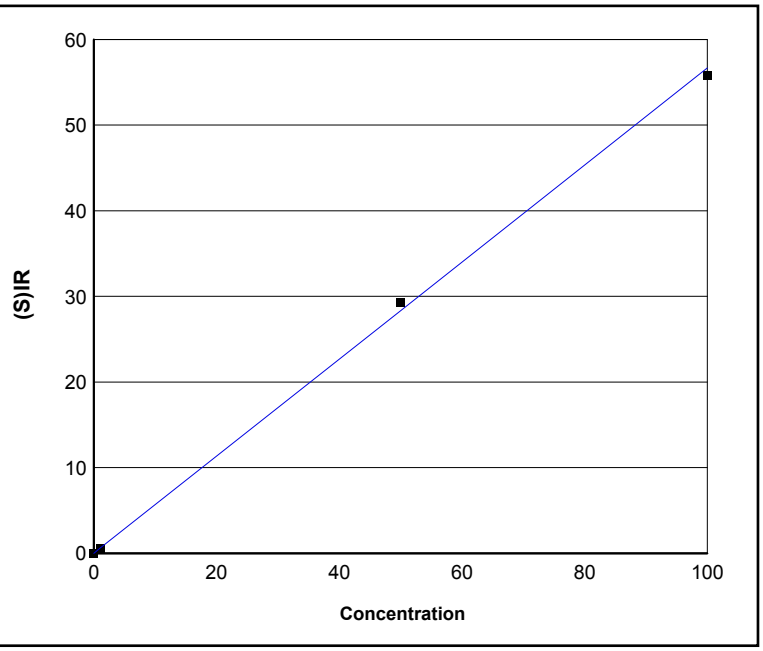
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000001458	-0.0000001458	0.00000	0.0093224	0.000036654	1
IC-6615375	0.0030000	0.0031059	0.00010589	3.5297	0.014459	0.00014046	1
IC-6611925	1.0000	1.0267	0.026687	2.6687	1.7068	0.0021741	1
IC-6582679	2.0000	1.9732	-0.026793	-1.3396	3.2717	0.0084853	1



Element Name:	Mo
Element Wavelength:	Mo 202.030 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99961
A0 (Offset):	0.0047712
A1 (Gain):	1.0145
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

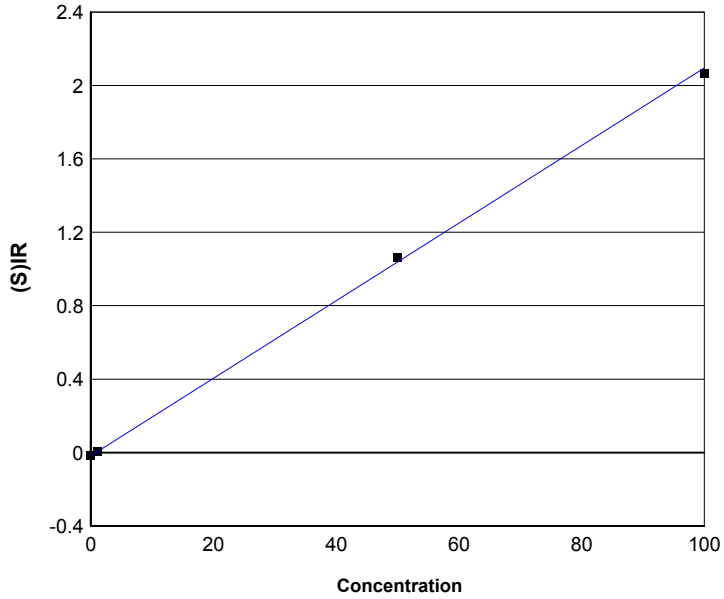
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000016443	0.0000016443	0.00000	0.0047729	0.0000008370	1
IC-6615375	0.010000	0.0081598	-0.0018402	-18.402	0.013049	0.00018170	1
IC-6611925	1.0000	1.0373	0.037338	3.7338	1.0571	0.0016481	1
IC-6582679	2.0000	1.9645	-0.035498	-1.7749	1.9977	0.0098155	1



Element Name:	Na
Element Wavelength:	Na 589.592 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99973
A0 (Offset):	0.0083928
A1 (Gain):	0.56681
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

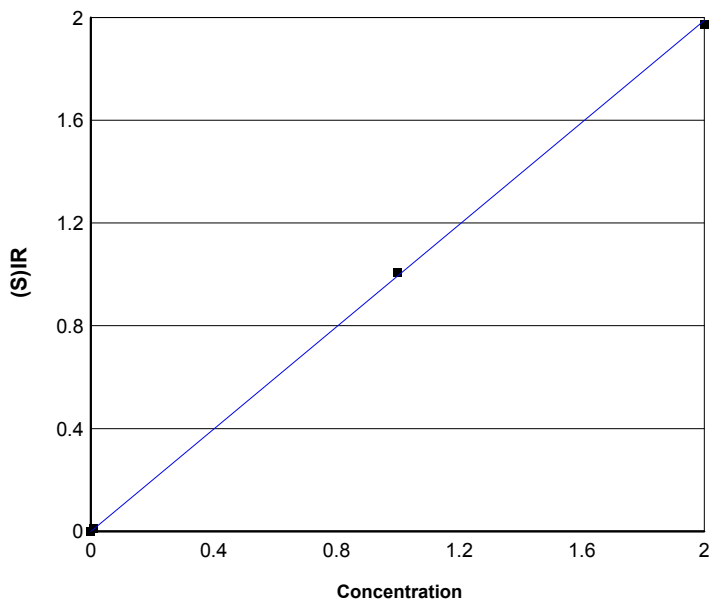
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	-0.000029027	-0.000029027	0.00000	0.0083763	0.0032520	1
IC-6615375	1.0000	1.0128	0.012782	1.2782	0.58244	0.0036779	1
IC-6611925	50.000	51.637	1.6373	3.2746	29.277	0.12967	1
IC-6582679	100.00	98.350	-1.6501	-1.6501	55.754	0.079900	1



Element Name:	Na
Element Wavelength:	Na 818.326 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99978
A0 (Offset):	-0.018386
A1 (Gain):	0.021136
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

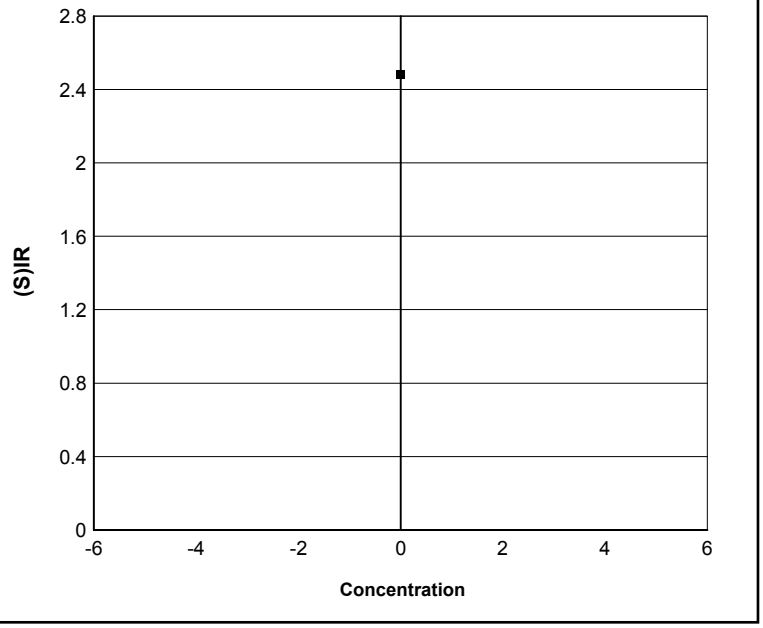
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	-0.00015660	-0.00015660	0.00000	-0.018389	0.0026977	1
IC-6615375	1.0000	1.1463	0.14629	14.629	0.0058428	0.0035691	1
IC-6611925	50.000	51.178	1.1781	2.3562	1.0633	0.0018136	1
IC-6582679	100.00	98.676	-1.3244	-1.3244	2.0673	0.0023196	1



Element Name:	Ni
Element Wavelength:	Ni 231.604 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99995
A0 (Offset):	0.00024360
A1 (Gain):	0.99398
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

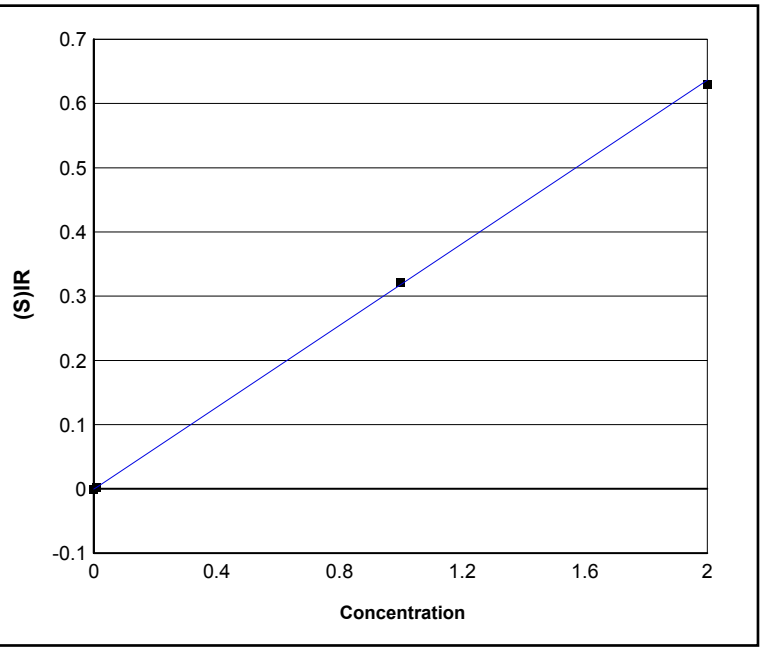
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000001545	0.0000001545	0.00000	0.00024375	0.000062223	1
IC-6615375	0.010000	0.0097716	-0.00022837	-2.2837	0.0099569	0.00013273	1
IC-6611925	1.0000	1.0145	0.014544	1.4544	1.0092	0.0018130	1
IC-6582679	2.0000	1.9857	-0.014316	-0.71578	1.9749	0.0026709	1



Element Name:	P
Element Wavelength:	P 213.618 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:40:02PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

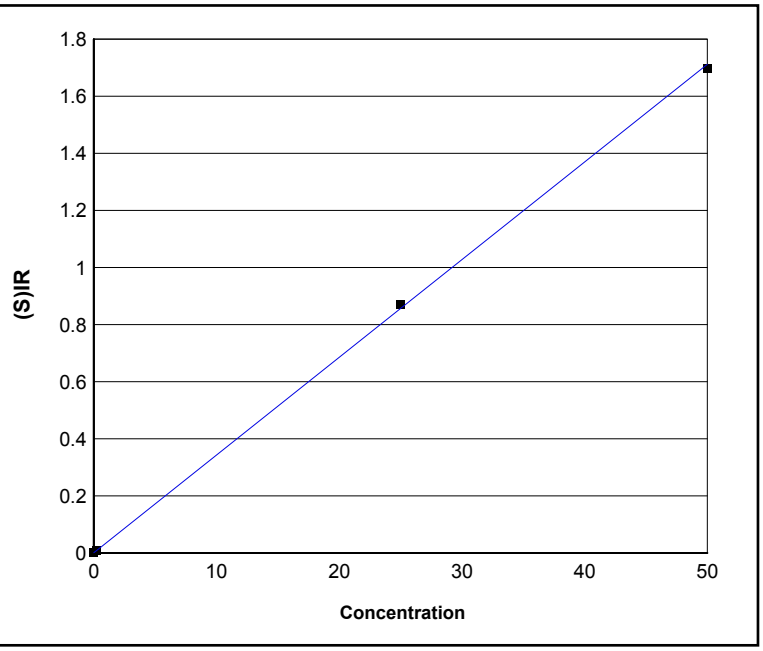
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000			0.0000	2.482	0.2244	1



Element Name:	Pb
Element Wavelength:	Pb 220.353 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	-0.00023904
A1 (Gain):	0.31828
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

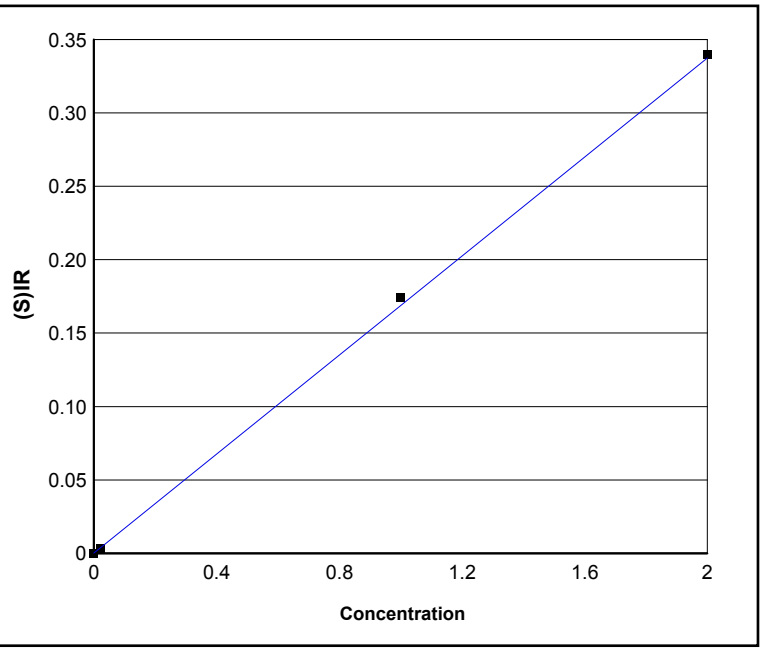
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000006207	0.0000006207	0.00000	-0.00023884	0.000099222	1
IC-6615375	0.010000	0.0092969	-0.00070311	-7.0311	0.0027162	0.00011836	1
IC-6611925	1.0000	1.0158	0.015783	1.5783	0.32191	0.000043866	1
IC-6582679	2.0000	1.9849	-0.015078	-0.75390	0.62921	0.0012759	1



Element Name:	S
Element Wavelength:	S 182.034 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.9999
A0 (Offset):	0.0008577
A1 (Gain):	0.03422
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

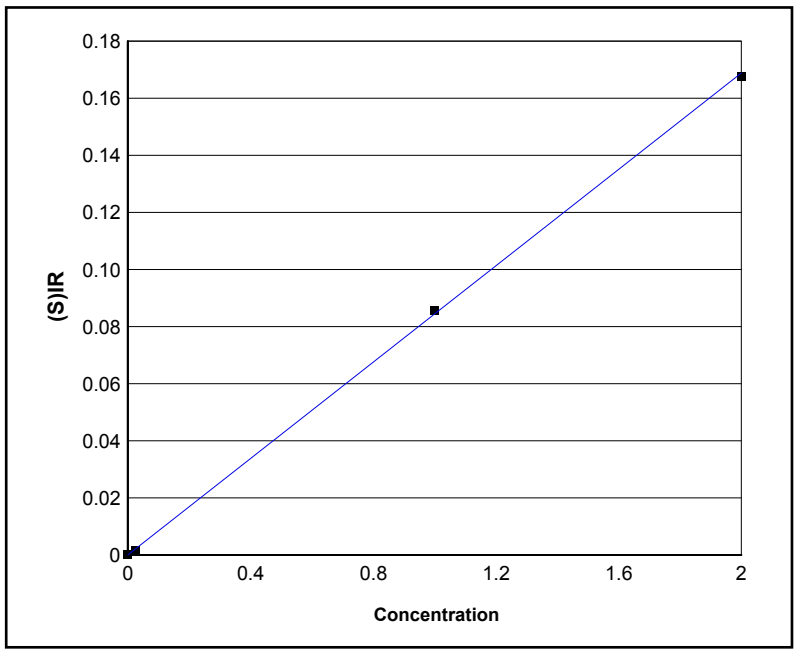
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000	0.000009675	0.000009675	0.0000	0.0008581	0.00005471	1
IC-6615375	0.2000	0.1886	-0.01140	-5.700	0.007311	0.00004510	1
IC-6611925	25.00	25.42	0.4199	1.679	0.8707	0.0006054	1
IC-6582679	50.00	49.59	-0.4085	-0.8169	1.698	0.002366	1



Element Name:	Sb
Element Wavelength:	Sb 206.833 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99993
A0 (Offset):	0.00016387
A1 (Gain):	0.16865
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

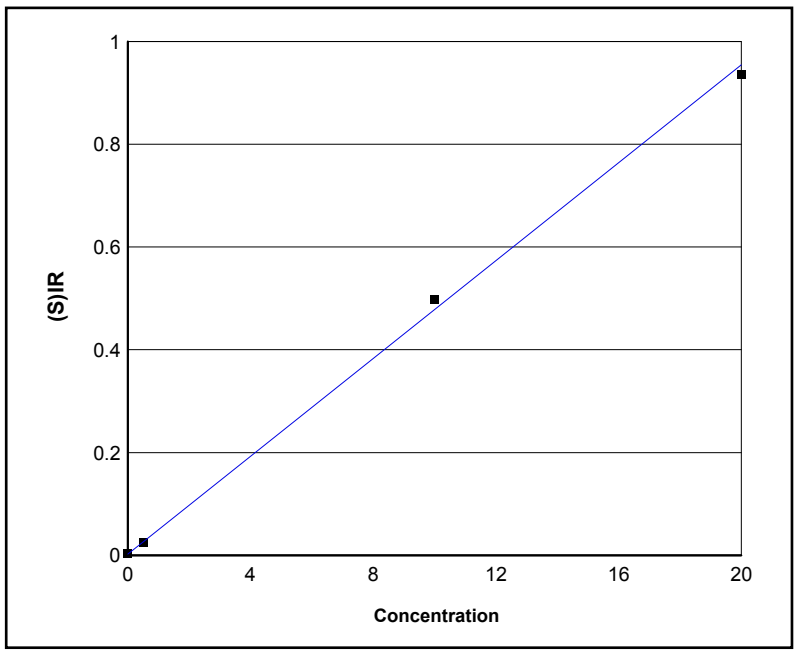
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000002898	0.0000002898	0.00000	0.00016392	0.00035806	1
IC-6615375	0.020000	0.019535	-0.00046512	-2.3256	0.0034700	0.00015486	1
IC-6611925	1.0000	1.0171	0.017067	1.7067	0.17437	0.0011254	1
IC-6582679	2.0000	1.9834	-0.016608	-0.83040	0.34003	0.00024881	1



Element Name:	Se
Element Wavelength:	Se 196.090 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99975
A0 (Offset):	0.000032344
A1 (Gain):	0.084403
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

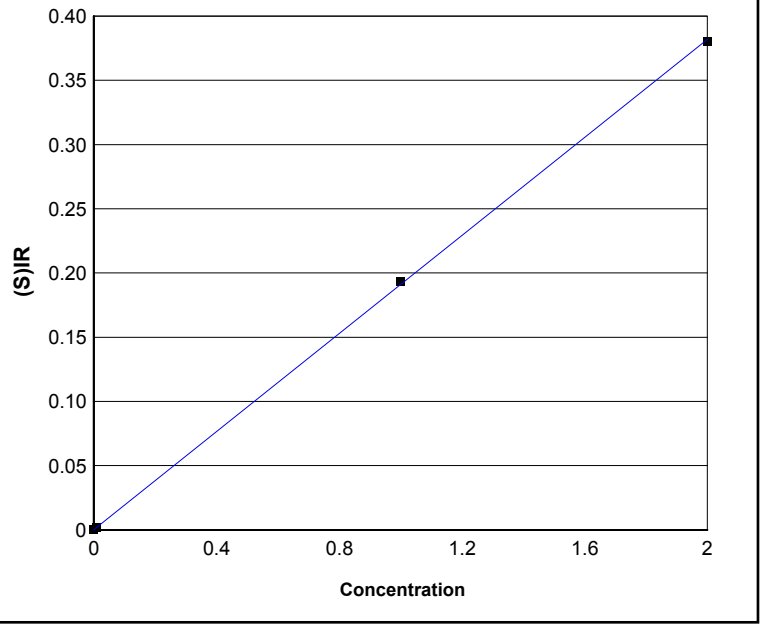
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000052029	0.0000052029	0.00000	0.000032784	0.000058198	1
IC-6615375	0.025000	0.019524	-0.0054760	-21.904	0.0016795	0.00010853	1
IC-6611925	1.0000	1.0164	0.016359	1.6359	0.085641	0.00041807	1
IC-6582679	2.0000	1.9891	-0.010874	-0.54369	0.16757	0.000032258	1



Element Name:	Si
Element Wavelength:	Si 288.158 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99959
A0 (Offset):	0.0024773
A1 (Gain):	0.047623
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

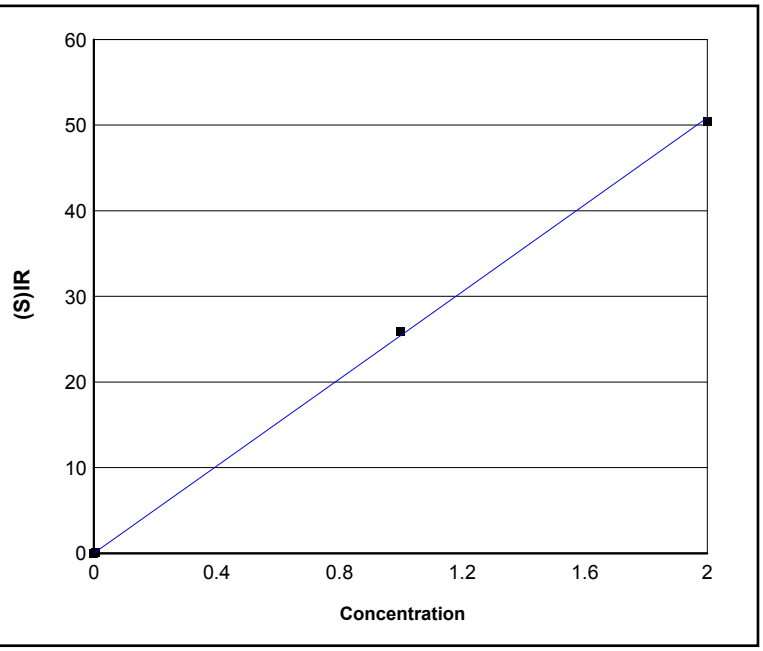
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000088195	0.0000088195	0.00000	0.0024778	0.00065214	1
IC-6615375	0.50000	0.48050	-0.019502	-3.9005	0.025360	0.00049252	1
IC-6611925	10.000	10.408	0.40782	4.0782	0.49813	0.0092131	1
IC-6582679	20.000	19.612	-0.38831	-1.9416	0.93644	0.0041139	1



Element Name:	Sn
Element Wavelength:	Sn 189.989 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99992
A0 (Offset):	0.00017518
A1 (Gain):	0.19088
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

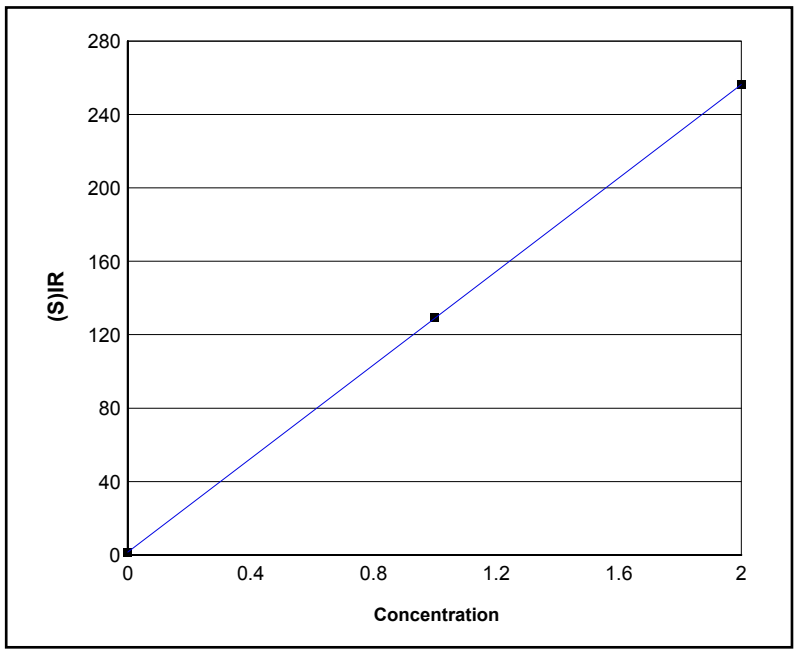
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000016964	0.0000016964	0.00000	0.00017550	0.000082337	1
IC-6615375	0.010000	0.0082404	-0.0017596	-17.596	0.0017481	0.0000016136	1
IC-6611925	1.0000	1.0109	0.010878	1.0878	0.19313	0.00028280	1
IC-6582679	2.0000	1.9909	-0.0091187	-0.45594	0.38020	0.00062969	1



Element Name:	Sr
Element Wavelength:	Sr 407.771 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	0.0039269
A1 (Gain):	25.436
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

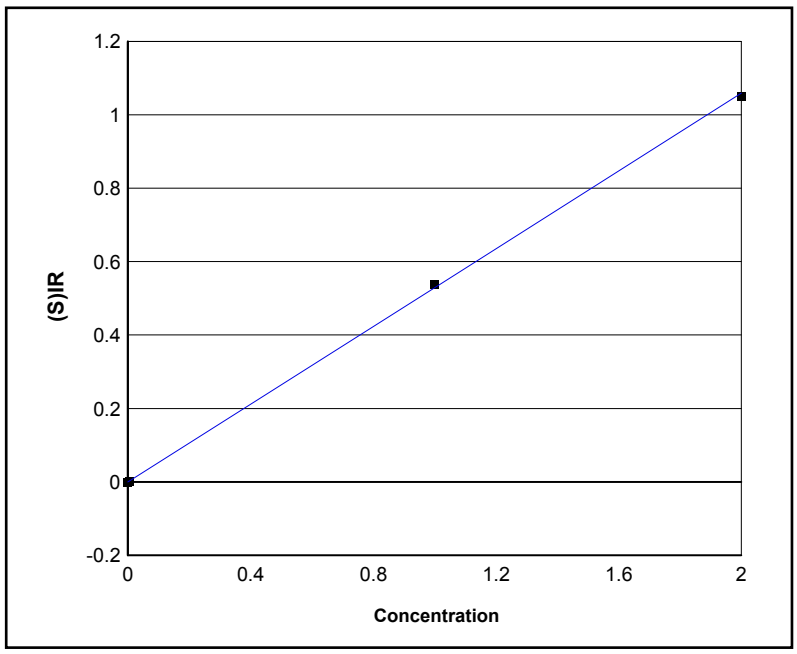
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000000257	0.0000000257	0.00000	0.0039276	0.0015182	1
IC-6615375	0.0050000	0.0049259	-0.000074095	-1.4819	0.12922	0.0010224	1
IC-6611925	1.0000	1.0193	0.019288	1.9288	25.930	0.13042	1
IC-6582679	2.0000	1.9808	-0.019214	-0.96070	50.386	0.11184	1



Element Name:	Th
Element Wavelength:	Th 283.730 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	1.496
A1 (Gain):	127.4
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

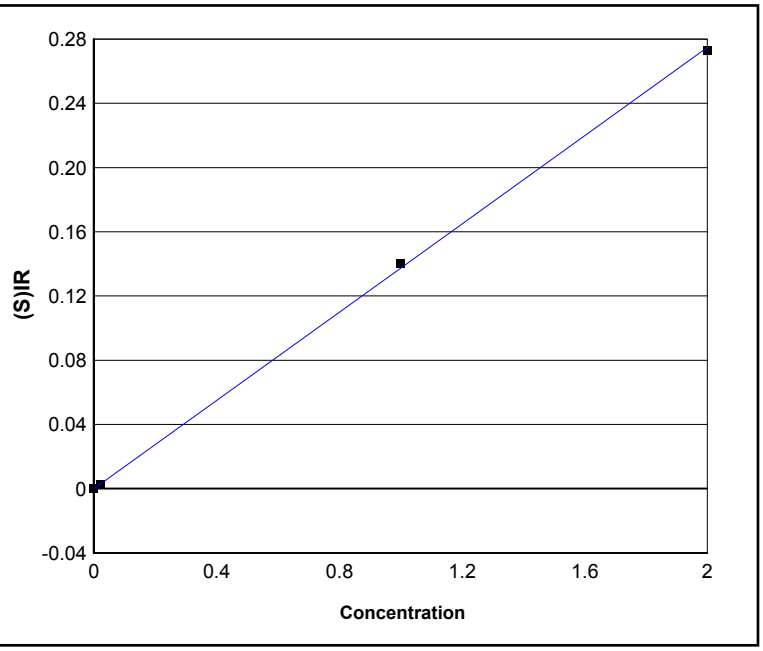
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000	0.0000008713	-0.0000008713	0.0000	1.495	0.9835	1
IC-6611925	1.000	1.002	0.001743	0.1743	129.1	1.182	1
IC-6582679	2.000	1.998	-0.001743	-0.08713	256.1	2.339	1



Element Name:	Ti
Element Wavelength:	Ti 334.904 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99991
A0 (Offset):	-0.00037433
A1 (Gain):	0.52973
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

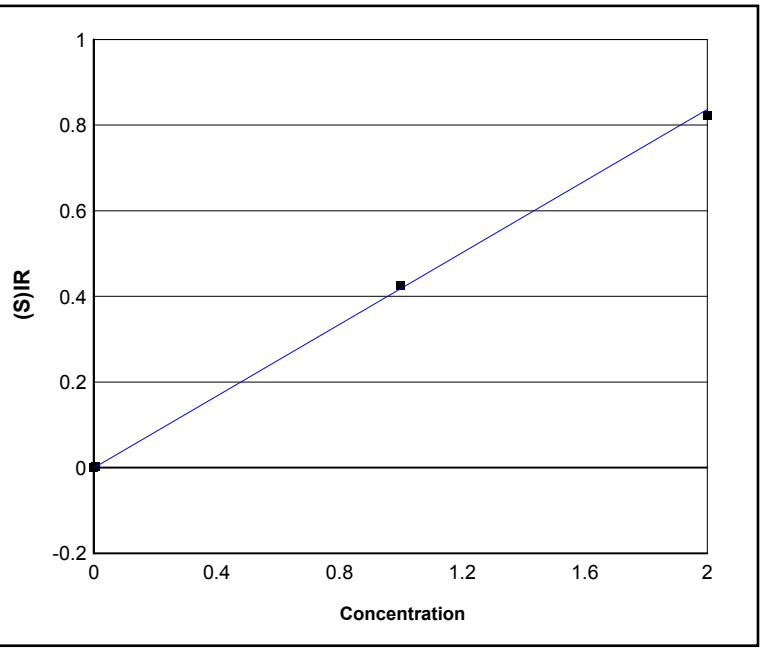
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000004622	0.0000004622	0.00000	-0.00037408	0.00014676	1
IC-6615375	0.0050000	0.0044915	-0.00050853	-10.171	0.0020074	0.00011899	1
IC-6611925	1.0000	1.0180	0.018003	1.8003	0.53922	0.00050642	1
IC-6582679	2.0000	1.9825	-0.017494	-0.87469	1.0505	0.0024785	1



Element Name:	Tl
Element Wavelength:	Tl 190.856 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99989
A0 (Offset):	-0.00010436
A1 (Gain):	0.13744
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

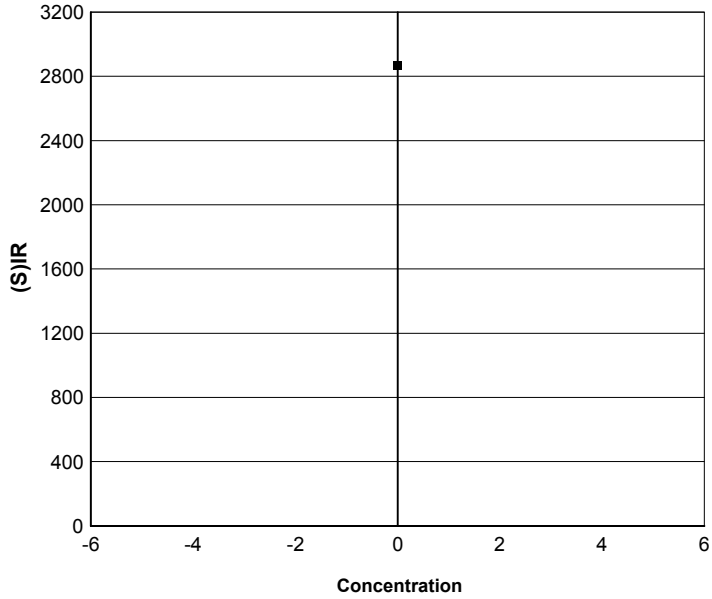
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000009168	0.0000009168	0.00000	-0.00010423	0.000075840	1
IC-6615375	0.020000	0.018871	-0.0011287	-5.6436	0.0024903	0.000021268	1
IC-6611925	1.0000	1.0201	0.020060	2.0060	0.14034	0.000045183	1
IC-6582679	2.0000	1.9811	-0.018933	-0.94665	0.27266	0.00061739	1



Element Name:	V
Element Wavelength:	V 292.402 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99988
A0 (Offset):	-0.00023833
A1 (Gain):	0.41865
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		QC Normalize	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

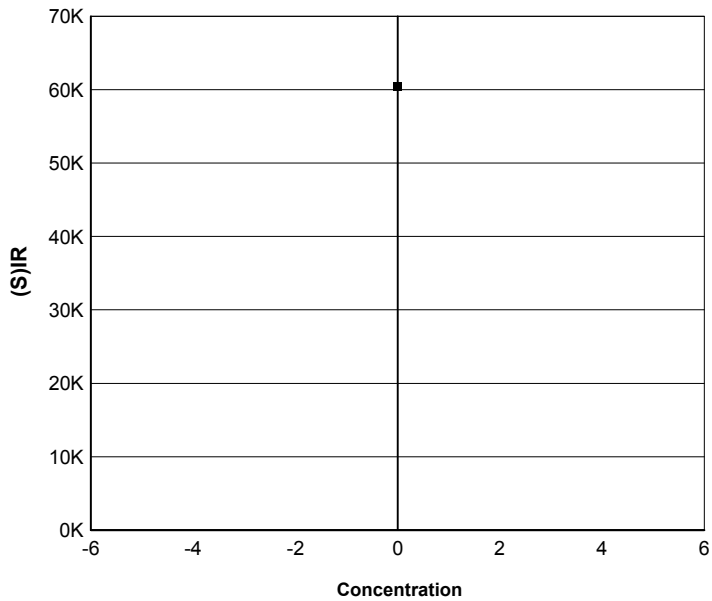
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000000462	0.0000000462	0.00000	-0.00023831	0.000029950	1
IC-6615375	0.0050000	0.0048988	-0.00010121	-2.0243	0.0017749	0.000023398	1
IC-6611925	1.0000	1.0219	0.021906	2.1906	0.42430	0.00052642	1
IC-6582679	2.0000	1.9782	-0.021806	-1.0903	0.82137	0.0019044	1



Element Name:	Y
Element Wavelength:	Y 224.306 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:40:02PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

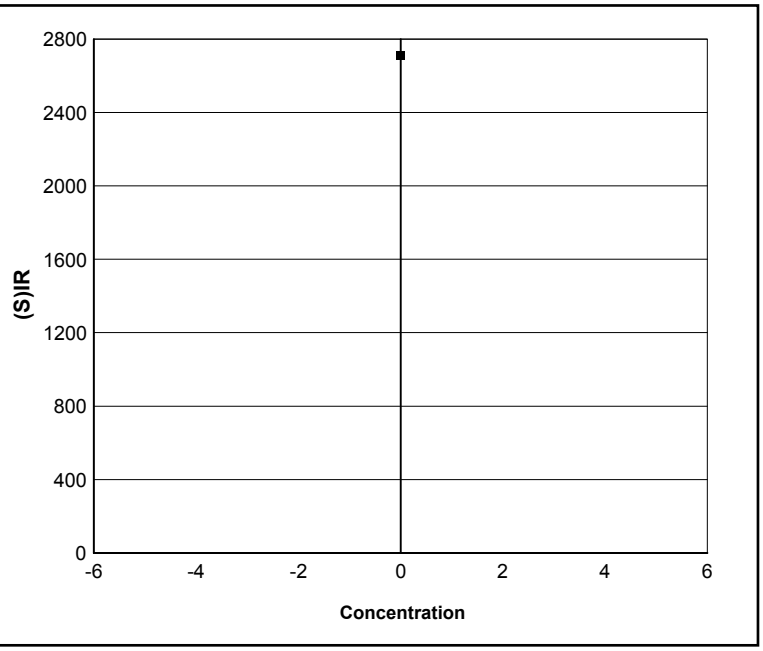
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000			0.0000	2,866	0.3976	1



Element Name:	Y
Element Wavelength:	Y 360.073 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:40:02PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		QC Normalize	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

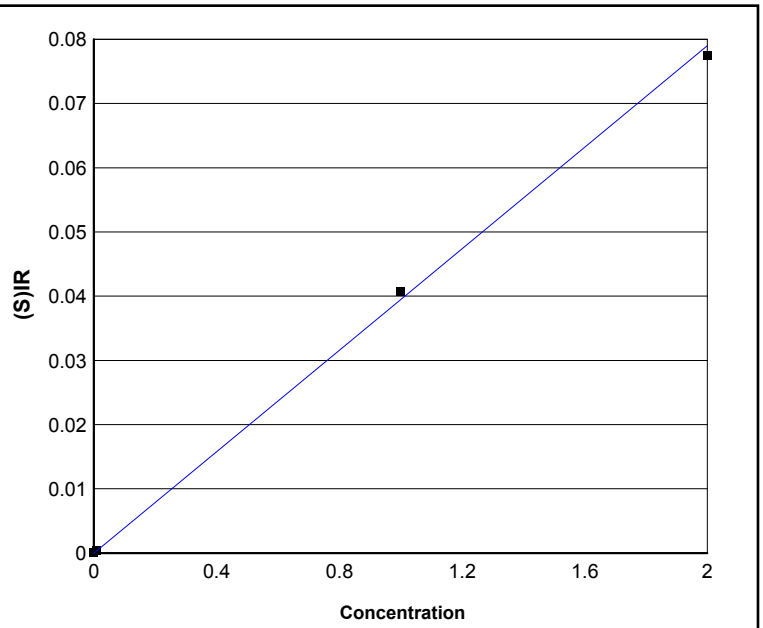
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000			0.0000	60,420	433.7	1



Element Name:	Y
Element Wavelength:	Y 377.433 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:40:02PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.0000
A0 (Offset):	0.0000
A1 (Gain):	0.0000
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

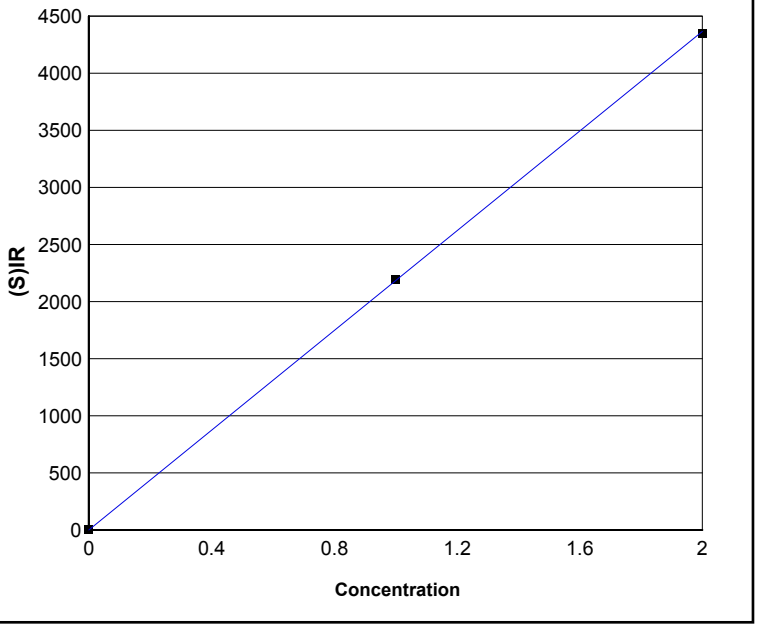
Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000			0.0000	2,708	0.7232	1



Element Name:	Zn
Element Wavelength:	Zn 206.200 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	0.99970
A0 (Offset):	0.0000042931
A1 (Gain):	0.039488
A2 (Curvature):	0.00000
n (Exponent):	1.0000

Reslope		**QC Normalize**	
Slope:	1.0000	**Slope factor:**	1.0000
Y Int:	0.00000	**Offset:**	0.00000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.00000	0.0000005495	0.0000005495	0.00000	0.0000043148	0.0000023688	1
IC-6615375	0.010000	0.0092755	-0.00072454	-7.2454	0.00037033	0.000021266	1
IC-6611925	1.0000	1.0343	0.034284	3.4284	0.040788	0.000076646	1
IC-6582679	2.0000	1.9664	-0.033558	-1.6779	0.077538	0.00042709	1



Element Name:	Zr
Element Wavelength:	Zr 343.823 nm
Concentration Units:	ppm
Date of Calibration:	8/16/2021 2:51:17PM
Date of Fit:	8/16/2021 3:44:04PM
Type of Fit:	Linear
Correlation:	1.0000
A0 (Offset):	0.1504
A1 (Gain):	2,183
A2 (Curvature):	0.0000
n (Exponent):	1.000

Reslope		**QC Normalize**	
Slope:	1.000	**Slope factor:**	1.000
Y Int:	0.0000	**Offset:**	0.0000

Standard Name	Stated	Found	Diff	% Diff	(S)IR	Stddev	Emphasis
ICIS-6615058	0.0000	-0.000003328	-0.000003328	0.0000	0.1432	1.810	1
IC-6611925	1.000	1.007	0.006656	0.6656	2,197	20.82	1
IC-6582679	2.000	1.993	-0.006656	-0.3328	4,351	11.40	1

Sample Name: ICIS-6615058 Acquired: 8/16/2021 14:36:12 Type: Cal
Method: ICAP1 New Stds (v897) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.00038**	**.00146**	**.00025**	**.00212**	**.01512**	**.00306**	**-.00010**
Stddev	.00010	.00018	.00012	.00018	.00020	.00003	.00011
%RSD	27.422	12.603	50.066	8.6118	1.2986	.94258	118.75
#1	-.00045	.00159	.00016	.00225	.01526	.00304	-.00018
#2	-.00030	.00133	.00034	.00199	.01498	.00308	-.00002

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.01319**	**-.00028**	**-.0011**	**-.00020**	**-.00001**	**-.00041**	**.00146**
Stddev	.00180	.00039	.0002	.00019	.00001	.00005	.00037
%RSD	13.683	138.64	16.49	94.773	77.573	13.070	25.088
#1	.01446	-.00001	-.0010	-.00033	-.00002	-.00037	.00172
#2	.01191	-.00056	-.0012	-.00006	-.00001	-.00044	.00120

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00081**	**.02327**	**.00649**	**-.00001**	**.00523**	**.00932**	**.00477**
Stddev	.00055	.00137	.00309	.00009	.00008	.00004	.00000
%RSD	67.476	5.8827	47.676	965.68	1.4725	.39318	.01754
#1	.00042	.02424	.00868	-.00007	.00517	.00935	.00477
#2	.00120	.02230	.00430	.00005	.00528	.00930	.00477

Elem	Na5895	Na8183	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00838**	**-.01839**	**.00024**	**2.482**	**-.00024**	**.0009**	**.00016**
Stddev	.00325	.00270	.00006	.224	.00010	.0001	.00036
%RSD	38.823	14.670	25.527	9.042	41.543	6.377	218.43
#1	.01068	-.01648	.00029	2.641	-.00017	.0008	-.00009
#2	.00608	-.02030	.00020	2.323	-.00031	.0009	.00042

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00003**	**.00248**	**.00018**	**.00393**	**1.495**	**-.00037**	**-.00010**
Stddev	.00006	.00065	.00008	.00152	.984	.00015	.00008
%RSD	177.52	26.319	46.915	38.655	65.77	39.234	72.761
#1	-.00001	.00202	.00012	.00285	.8000	-.00027	-.00005
#2	.00007	.00294	.00023	.00500	2.191	-.00048	-.00016

Sample Name: ICIS-6615058 Acquired: 8/16/2021 14:36:12 Type: Cal
Method: ICAP1 New Stds (v897) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	V_2924	Zn2062	Zr3438
Units	Cts/S	Cts/S	Cts/S
Avg	**-.00024**	**.00000**	**.1432**
Stddev	.00003	.00000	1.810
%RSD	12.568	54.901	1264.
#1	-.00026	.00000	1.423
#2	-.00022	.00001	-1.136

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3756.9**	**2866.3**	**60425.**	**2708.0**
Stddev	6.9	.4	434.	.7
%RSD	.18447	.01387	.71772	.02671
#1	3752.0	2866.0	60118.	2707.5
#2	3761.8	2866.6	60731.	2708.5

Sample Name: IC-6615375 Acquired: 8/16/2021 14:40:06 Type: Cal
Method: ICAP1 New Stds (v897) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00191**	**.00753**	**.00159**	**.01180**	**.04126**	**.03463**	**.02234**
Stddev	.00006	.00043	.00004	.00010	.00171	.00015	.00114
%RSD	3.0288	5.7007	2.6014	.81364	4.1479	.44454	5.0832
#1	.00187	.00784	.00156	.01187	.04247	.03474	.02154
#2	.00195	.00723	.00162	.01173	.04005	.03452	.02314

Elem	Ca3179	Cd2288	Co2286	Cr2677	Cu3273	Fe2599	Fe2714
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.16025**	**.00498**	**.00512**	**.00116**	**.00268**	**.00816**	**.00059**
Stddev	.00021	.00023	.00015	.00000	.00006	.00029	.00004
%RSD	.13020	4.5197	3.0036	.01461	2.0903	3.6117	6.5017
#1	.16040	.00514	.00501	.00116	.00264	.00837	.00056
#2	.16010	.00482	.00523	.00116	.00272	.00795	.00061

Elem	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.08840**	**.09580**	**.00518**	**.00767**	**.01446**	**.01305**	**.58244**
Stddev	.00051	.00077	.00005	.00052	.00014	.00018	.00368
%RSD	.57215	.80271	1.0285	6.7387	.97142	1.3924	.63145
#1	.08876	.09634	.00514	.00804	.01456	.01292	.58504
#2	.08805	.09526	.00522	.00731	.01436	.01318	.57984

Elem	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960	Si2881
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00584**	**.00996**	**.00272**	**.0073**	**.00347**	**.00168**	**.02536**
Stddev	.00357	.00013	.00012	.0000	.00015	.00011	.00049
%RSD	61.085	1.3331	4.3576	.6168	4.4628	6.4619	1.9421
#1	.00837	.00986	.00280	.0073	.00336	.00160	.02571
#2	.00332	.01005	.00263	.0073	.00358	.00176	.02501

Elem	Sn1899	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.00175**	**.12922**	**.00201**	**.00249**	**.00177**	**.00037**
Stddev	.00000	.00102	.00012	.00002	.00002	.00002
%RSD	.09230	.79123	5.9276	.85403	1.3182	5.7424
#1	.00175	.12994	.00192	.00248	.00176	.00036
#2	.00175	.12850	.00209	.00251	.00179	.00039

Sample Name: IC-6615375 Acquired: 8/16/2021 14:40:06 Type: Cal
Method: ICAP1 New Stds (v897) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3742.7	2863.7	60354.	2692.1
Stddev	3.9	.7	158.	6.3
%RSD	.10349	.02456	.26231	.23317
#1	3740.0	2864.2	60243.	2687.7
#2	3745.4	2863.2	60466.	2696.5

Sample Name: IC-6611925 Acquired: 8/16/2021 14:44:00 Type: Cal
Method: ICAP1 New Stds (v897) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.37111**	**1.8666**	**.10206**	**.55814**	**14.550**	**15.442**	**11.768**
Stddev	.00004	.0109	.00012	.00021	.062	.036	.067
%RSD	.00978	.58587	.12167	.03729	.42442	.23292	.57189
#1	.37108	1.8588	.10214	.55829	14.506	15.467	11.721
#2	.37113	1.8743	.10197	.55799	14.594	15.417	11.816

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**15.208**	**2.7809**	**.0824**	**1.3996**	**.28982**	**.32564**	**7.7480**
Stddev	.049	.0002	.0001	.0004	.00034	.00085	.0385
%RSD	.32460	.00678	.1417	.02857	.11740	.26149	.49698
#1	15.173	2.7807	.0823	1.3993	.28958	.32504	7.7208
#2	15.243	2.7810	.0824	1.3999	.29006	.32624	7.7752

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.49422**	**7.6076**	**3.3831**	**1.3599**	**.89227**	**1.7068**	**1.0571**
Stddev	.00106	.0326	.0180	.0022	.00134	.0022	.0017
%RSD	.21459	.42879	.53166	.15989	.14994	.12738	.15591
#1	.49347	7.5845	3.3704	1.3583	.89132	1.7053	1.0560
#2	.49497	7.6307	3.3958	1.3614	.89322	1.7083	1.0583

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**29.277**	**1.0633**	**1.0092**	**.32191**	**.8707**	**.17437**	**.08564**
Stddev	.130	.0018	.0018	.00004	.0006	.00113	.00042
%RSD	.44290	.17055	.17965	.01363	.0695	.64537	.48817
#1	29.185	1.0621	1.0104	.32188	.8711	.17517	.08594
#2	29.368	1.0646	1.0079	.32194	.8703	.17358	.08535

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.49813**	**.19313**	**25.930**	**129.1**	**.53922**	**.14034**	**.42430**
Stddev	.00921	.00028	.130	1.2	.00051	.00005	.00053
%RSD	1.8495	.14643	.50298	.9151	.09392	.03220	.12407
#1	.49161	.19293	25.838	128.3	.53958	.14031	.42393
#2	.50464	.19333	26.022	130.0	.53886	.14037	.42467

Sample Name: IC-6611925 Acquired: 8/16/2021 14:44:00 Type: Cal
Method: ICAP1 New Stds (v897) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3438
Units	Cts/S	Cts/S
Avg	.04079	2197.
Stddev	.00008	21.
%RSD	.18791	.9477
#1	.04084	2183.
#2	.04073	2212.

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3227.7	2761.6	56329.	2648.2
Stddev	.2	1.1	61.	.4
%RSD	.00582	.04096	.10886	.01648
#1	3227.5	2760.8	56285.	2647.9
#2	3227.8	2762.4	56372.	2648.5

Sample Name: IC-6582679 Acquired: 8/16/2021 14:47:41 Type: Cal
Method: ICAP1 New Stds (v897) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Ba4554-2	Be3130
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.72913**	**3.6190**	**.19949**	**1.0715**	**28.145**	**29.209**	**22.603**
Stddev	.00093	.0047	.00006	.0022	.075	.193	.014
%RSD	.12768	.12927	.03093	.20288	.26750	.66139	.06155
#1	.72847	3.6157	.19944	1.0700	28.092	29.072	22.593
#2	.72979	3.6223	.19953	1.0731	28.199	29.345	22.613

Elem	Ca3179	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**29.338**	**5.4112**	**.1587**	**2.7445**	**.55698**	**.63836**	**14.687**
Stddev	.008	.0091	.0002	.0055	.00169	.00070	.008
%RSD	.02786	.16889	.1197	.19971	.30368	.10979	.05435
#1	29.333	5.4048	.1585	2.7406	.55578	.63885	14.693
#2	29.344	5.4177	.1588	2.7484	.55818	.63786	14.682

Elem	Fe2714	K_7664	Li6707	Mg2790	Mn2576-2	Mn2576	Mo2020
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.94020**	**14.688**	**6.5838**	**2.6627**	**1.7002**	**3.2717**	**1.9977**
Stddev	.00083	.002	.0164	.0106	.0005	.0085	.0098
%RSD	.08790	.01157	.24925	.39621	.02929	.25936	.49134
#1	.94078	14.687	6.5722	2.6552	1.6999	3.2657	1.9908
#2	.93961	14.689	6.5954	2.6701	1.7006	3.2777	2.0046

Elem	Na5895	Na8183	Ni2316	Pb2203	S_1820	Sb2068	Se1960
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**55.754**	**2.0673**	**1.9749**	**.62921**	**1.698**	**.34003**	**.16757**
Stddev	.080	.0023	.0027	.00128	.002	.00025	.00003
%RSD	.14331	.11221	.13524	.20277	.1393	.07317	.01925
#1	55.697	2.0656	1.9731	.62831	1.696	.34020	.16759
#2	55.810	2.0689	1.9768	.63011	1.699	.33985	.16755

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.93644**	**.38020**	**50.386**	**256.1**	**1.0505**	**.27266**	**.82137**
Stddev	.00411	.00063	.112	2.3	.0025	.00062	.00190
%RSD	.43931	.16562	.22197	.9132	.23594	.22643	.23186
#1	.93354	.37975	50.307	254.5	1.0487	.27310	.82002
#2	.93935	.38064	50.465	257.8	1.0522	.27223	.82272

Sample Name: IC-6582679 Acquired: 8/16/2021 14:47:41 Type: Cal
Method: ICAP1 New Stds (v897) Mode: IR Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Zn2062	Zr3438
Units	Cts/S	Cts/S
Avg	.07754	4351.
Stddev	.00043	11.
%RSD	.55081	.2621
#1	.07724	4343.
#2	.07784	4359.

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3041.6	2709.1	54834.	2625.9
Stddev	2.3	1.4	100.	3.8
%RSD	.07449	.05239	.18295	.14404
#1	3043.2	2710.1	54905.	2623.2
#2	3040.0	2708.1	54763.	2628.6

Sample Name: ICV-6615060 Acquired: 8/16/2021 14:51:21 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.73120**	**36.717**	**.73723**	**.73683**	**.73093**	**.73495**	**37.349**
Stddev	.00117	.337	.00286	.00018	.00627	.00284	.175
%RSD	.15975	.91654	.38771	.02474	.85763	.38642	.46885
#1	.73037	36.955	.73925	.73670	.73536	.73695	37.473
#2	.73202	36.479	.73521	.73696	.72649	.73294	37.226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.73717**	**.0152**	**.72676**	**.74491**	W **.69934**	**37.431**	**36.860**
Stddev	.00018	.0155	.00013	.00046	.00002	.377	.184
%RSD	.02421	101.5	.01839	.06123	.00311	1.0059	.50010
#1	.73704	.0262	.72685	.74524	.69936	37.697	36.991
#2	.73729	.0043	.72666	.74459	.69933	37.165	36.730
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass
Value					.75000		
Range					-5.0000%		

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	W **.70497**	**36.334**	**.74197**	**.78582**	**37.594**	**.72797**	z *****
Stddev	.00459	.075	.00102	.00070	.282	.00096	-----
%RSD	.65128	.20743	.13804	.08945	.75058	.13204	-----
#1	.70822	36.281	.74124	.78532	37.793	.72865	z 7006.
#2	.70172	36.388	.74269	.78631	37.394	.72729	z 6987.
Check ?	Chk Warn	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value	.75000						
Range	-5.0000%						

Sample Name: ICV-6615060 Acquired: 8/16/2021 14:51:21 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.73593	18.61	.78212	.73569	7.4920	.71521	.72997
Stddev	.00111	.00	.00003	.00104	.0578	.00120	.00483
%RSD	.15117	.0215	.00366	.14147	.77078	.16782	.66173
#1	.73672	18.61	.78214	.73642	7.5328	.71606	.73339
#2	.73515	18.61	.78210	.73495	7.4512	.71437	.72656
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1092	.73442	.73963	.73526	.74284	.0731
Stddev	.0131	.00179	.00091	.00205	.00162	.0036
%RSD	11.96	.24328	.12264	.27857	.21832	4.928
#1	.1185	.73568	.74028	.73670	.74169	.0757
#2	.1000	.73315	.73899	.73381	.74398	.0706
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3287.8	2767.9	57108.	2687.1
Stddev	.4	1.8	146.	20.8
%RSD	.01092	.06605	.25554	.77373
#1	3287.5	2769.2	57211.	2672.4
#2	3288.0	2766.6	57004.	2701.8

Sample Name: ICB-6615058 Acquired: 8/16/2021 14:55:04 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00445**	**.00083**	**.00067**	**.00016**	**.00007**	**-.00015**	**.00001**
Stddev	.00025	.02081	.00264	.00005	.00000	.00003	.00488	.00001
%RSD	131.89	467.77	318.72	7.1620	.30548	41.338	3284.4	94.326
#1	.00036	-.01916	-.00104	.00063	.00016	.00005	-.00360	.00000
#2	.00001	.01027	.00269	.00070	.00016	.00009	.00330	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0110**	**.00004**	**-.00017**	**.00015**	**.00464**	**-.04118**	**-.00169**	**-.00322**
Stddev	.0228	.00006	.00006	.00010	.00126	.01930	.00042	.00013
%RSD	207.5	152.60	35.972	67.013	27.082	46.880	24.773	4.1751
#1	.0051	-.00000	-.00022	.00022	.00553	-.05483	-.00140	-.00312
#2	-.0271	.00008	-.00013	.00008	.00375	-.02753	-.00199	-.00331
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00006**	**.00708**	**.00770**	**-.00016**	z *****	**-.00011**	**-.0053**	**.00064**
Stddev	.00000	.00162	.00385	.00002	-----	.00050	.0057	.00154
%RSD	6.2968	22.940	49.944	11.721	-----	475.24	106.4	241.70
#1	-.00006	.00822	.00498	-.00015	z 139.8	-.00046	-.0093	.00173
#2	-.00006	.00593	.01042	-.00018	z 140.0	.00025	-.0013	-.00045
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: ICB-6615058 Acquired: 8/16/2021 14:55:04 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00144	-.00566	-.00038	.00004	-.0124	.00021	-.00020	.00001
Stddev	.00208	.00254	.00038	.00001	.0019	.00009	.00029	.00013
%RSD	144.70	44.929	99.086	37.220	15.44	41.145	142.33	2457.4
#1	.00291	-.00386	-.00011	.00005	-.0111	.00015	.00000	-.00008
#2	-.00003	-.00745	-.00065	.00003	-.0138	.00027	-.00040	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00005	.0005
Stddev	.00014	.0001
%RSD	285.92	15.16
#1	.00014	.0004
#2	-.00005	.0005
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3761.2	2846.8	60658.	2696.0
Stddev	1.4	2.2	32.	5.3
%RSD	.03667	.07655	.05282	.19522
#1	3760.2	2845.3	60636.	2692.3
#2	3762.1	2848.3	60681.	2699.8

Sample Name: ICVL-6615375 Acquired: 8/16/2021 14:58:59 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00614**	**.18908**	**.01556**	**.01904**	**.00215**	**.00199**	**.50188**	**.00189**
Stddev	.00045	.02172	.00190	.00001	.00001	.00000	.00217	.00005
%RSD	7.3648	11.486	12.212	.07225	.51323	.10728	.43273	2.5365
#1	.00646	.17372	.01690	.01903	.00214	.00200	.50034	.00193
#2	.00582	.20444	.01422	.01905	.00216	.00199	.50341	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0071**	**.00377**	**.00376**	**.00936**	**.04880**	**.46596**	**.02668**	**.19740**
Stddev	.0019	.00013	.00019	.00025	.00236	.03658	.00028	.00157
%RSD	26.81	3.3694	4.9887	2.7234	4.8385	7.8507	1.0487	.79293
#1	.0057	.00368	.00389	.00918	.05047	.44009	.02649	.19850
#2	.0084	.00386	.00363	.00954	.04713	.49183	.02688	.19629
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00323**	**.00963**	**1.0148**	**.00940**	z *****	**.00953**	**.1871**	**.01895**
Stddev	.00002	.00016	.0037	.00003	-----	.00123	.0023	.00124
%RSD	.52542	1.6206	.36441	.27516	-----	12.906	1.216	6.5212
#1	.00324	.00974	1.0174	.00942	z 139.3	.00866	.1855	.01808
#2	.00321	.00952	1.0122	.00938	z 140.0	.01040	.1887	.01983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: ICVL-6615375 Acquired: 8/16/2021 14:58:59 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02125	.43615	.00846	.00492	-.0053	.00481	.01931	.00481
Stddev	.00191	.02687	.00011	.00002	.0021	.00010	.00082	.00032
%RSD	8.9958	6.1618	1.3280	.37838	39.86	1.9841	4.2479	6.7001
#1	.01990	.41715	.00854	.00494	-.0038	.00488	.01873	.00458
#2	.02261	.45515	.00838	.00491	-.0068	.00474	.01989	.00503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00956	.0006
Stddev	.00055	.0010
%RSD	5.7875	157.3
#1	.00995	-.0001
#2	.00917	.0013
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3759.2	2855.7	60231.	2670.9
Stddev	1.7	2.5	247.	6.7
%RSD	.04493	.08664	.41044	.25133
#1	3758.0	2853.9	60056.	2666.2
#2	3760.4	2857.4	60405.	2675.6

Sample Name: ICSA-6591058 Acquired: 8/16/2021 15:02:53 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00024**	**498.00**	**-.00408**	**.00178**	**.01370**	**.00002**	**467.88**
Stddev	.00025	1.33	.00015	.00000	.00006	.00003	1.98
%RSD	103.48	.26660	3.7395	.16365	.40376	193.84	.42368
#1	-.00041	497.06	-.00398	.00178	.01366	-.00001	469.28
#2	-.00006	498.94	-.00419	.00178	.01374	.00004	466.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00102**	**.0562**	**-.00029**	**-.00160**	**.00074**	**186.56**	**.22318**
Stddev	.00011	.0221	.00009	.00031	.00050	1.03	.02569
%RSD	11.201	39.27	29.711	19.559	67.575	.55356	11.512
#1	.00094	.0406	-.00023	-.00182	.00039	185.83	.20502
#2	.00110	.0718	-.00035	-.00138	.00110	187.29	.24135
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.00482**	**498.35**	**-.00111**	**-.00340**	**.06921**	**.00223**	z *****
Stddev	.00161	.36	.00005	.00017	.00398	.00001	-----
%RSD	33.347	.07296	4.4530	4.9496	5.7546	.24897	-----
#1	.00368	498.61	-.00107	-.00328	.06640	.00223	z 588.0
#2	.00595	498.09	-.00114	-.00352	.07203	.00224	z 590.4
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Sample Name: ICSA-6591058 Acquired: 8/16/2021 15:02:53 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00144**	W **-.3561**	**.00122**	**.00003**	**-.01076**	**-.00043**	**.01318**
Stddev	.00074	.0068	.00215	.00272	.01307	.00194	.00007
%RSD	50.922	1.896	175.90	7958.5	121.53	456.75	.53226
#1	-.00196	-.3609	-.00030	-.00189	-.00151	-.00180	.01313
#2	-.00092	-.3513	.00274	.00196	-.02000	.00095	.01323
Check ?	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None	Chk Pass	None
High Limit		.2000					
Low Limit		-.2000					

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1322**	**.00196**	**-.00027**	**-.00147**	**.00310**	**.0058**
Stddev	.0152	.00025	.00042	.00014	.00014	.0006
%RSD	11.47	12.542	159.06	9.3892	4.6285	9.551
#1	.1215	.00178	-.00056	-.00156	.00300	.0062
#2	.1429	.00213	.00003	-.00137	.00320	.0054
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2739.6**	**2491.7**	**51357.**	**2606.4**
Stddev	5.2	2.2	6.	2.4
%RSD	.18922	.08742	.01170	.09297
#1	2735.9	2490.2	51362.	2604.7
#2	2743.2	2493.2	51353.	2608.1

Sample Name: ICSAB-6588769 Acquired: 8/16/2021 15:06:53 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.52998**	**501.98**	**.50721**	**4.7173**	**.52040**	**.24786**	**475.22**	**.52714**
Stddev	.00219	1.23	.00057	.0067	.00360	.00089	1.48	.00041
%RSD	.41340	.24593	.11327	.14285	.69178	.35759	.31170	.07731
#1	.52843	502.85	.50680	4.7221	.52295	.24849	474.17	.52743
#2	.53153	501.11	.50761	4.7125	.51786	.24723	476.26	.52685
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0682**	**.50085**	**.48813**	**.51379**	**189.13**	**5.3640**	**.00426**	**507.28**
Stddev	.0277	.00106	.00013	.00156	1.05	.0237	.00031	.63
%RSD	40.59	.21258	.02651	.30396	.55587	.44145	7.3883	.12464
#1	.0877	.50160	.48822	.51269	189.87	5.3807	.00404	506.83
#2	.0486	.50010	.48803	.51490	188.38	5.3472	.00448	507.73
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	None	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.48477**	**.49575**	**5.3358**	**.49559**	z *****	**.50264**	**-.3943**	**.51571**
Stddev	.00042	.00281	.0048	.00044	-----	.00427	.0091	.00336
%RSD	.08733	.56646	.09077	.08843	-----	.84889	2.303	.65106
#1	.48447	.49376	5.3324	.49590	z 2223.	.50566	-.4007	.51808
#2	.48507	.49773	5.3392	.49528	z 2223.	.49962	-.3879	.51333
Check ?	Chk Pass	None	None	Chk Pass	None	Chk Pass	None	Chk Pass
Value								
Range								

Sample Name: ICSAB-6588769 Acquired: 8/16/2021 15:06:53 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.48559**	**4.7077**	**.49721**	**.50417**	**.1384**	**.49758**	**.49226**	**.49206**
Stddev	.00427	.0248	.00241	.00096	.0011	.00003	.00166	.00069
%RSD	.88036	.52609	.48444	.19007	.8061	.00551	.33651	.13944
#1	.48257	4.7252	.49891	.50485	.1376	.49760	.49343	.49254
#2	.48861	4.6902	.49550	.50349	.1392	.49756	.49109	.49157
Check ?	Chk Pass	Chk Pass	None	None	None	None	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.46083**	**.0077**
Stddev	.00447	.0020
%RSD	.96990	25.56
#1	.46399	.0091
#2	.45767	.0063
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2729.7**	**2486.1**	**50982.**	**2576.8**
Stddev	5.0	.2	197.	7.7
%RSD	.18403	.00738	.38676	.29755
#1	2726.1	2486.2	50842.	2571.4
#2	2733.2	2485.9	51121.	2582.2

Sample Name: ICEX1 Acquired: 8/16/2021 15:10:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00093**	**-.10204**	**5.0850**	**.00308**	**.00002**
Stddev	.00007	.00391	.0123	.00066	.00001
%RSD	7.6839	3.8278	.24173	21.448	44.161
#1	.00088	-.10481	5.0937	.00354	.00003
#2	.00098	-.09928	5.0763	.00261	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.04722**	**-.00135**	**.0314**	**.00003**
Stddev	.00006	.00083	.00017	.0109	.00005
%RSD	10.106	1.7603	12.271	34.82	172.55
#1	.00055	.04780	-.00123	.0237	.00007
#2	.00063	.04663	-.00147	.0391	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00080**	**24.356**	**.02242**	**-.07786**	**-.00207**
Stddev	.00011	.043	.00377	.01515	.00169
%RSD	13.943	.17591	16.808	19.458	81.800
#1	.00072	24.325	.01975	-.08857	-.00087
#2	.00088	24.386	.02508	-.06715	-.00327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/16/2021 15:10:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01298**	F **-.00363**	**-.00161**	**.00784**	**-.00022**
Stddev	.00297	.00004	.00052	.00119	.00009
%RSD	22.925	1.1456	32.229	15.219	40.084
#1	.01087	-.00366	-.00124	.00700	-.00016
#2	.01508	-.00360	-.00197	.00869	-.00028
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm
Avg	^ *****	**-.00100**	**-.0049**	**.00070**	**.00005**
Stddev	-----	.00034	.0078	.00000	.00222
%RSD	-----	33.449	157.4	.44831	4214.8
#1	^ -----	-.00077	.0006	.00070	-.00152
#2	^ -----	-.00124	-.0104	.00069	.00162
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00025**	**.00003**	**.0063**	**.00027**
Stddev	.00963	.00030	.00002	.0009	.00005
%RSD	2482.6	120.50	59.898	14.30	19.016
#1	-.00642	.00004	.00002	.0070	.00023
#2	.00720	.00046	.00005	.0057	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX1 Acquired: 8/16/2021 15:10:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00518**	**4.9413**	**.00388**	**.0004**
Stddev	.00029	.0026	.00001	.0013
%RSD	5.6286	.05163	.13086	304.8
#1	.00538	4.9431	.00388	-.0005
#2	.00497	4.9394	.00388	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3741.6**	**2850.5**	**60242.**	**2681.3**
Stddev	2.4	2.1	35.	24.2
%RSD	.06355	.07370	.05810	.90271
#1	3743.2	2849.0	60267.	2664.1
#2	3739.9	2852.0	60217.	2698.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.592%	99.448%	99.698%	99.013%
Range				

Sample Name: ICEX2 Acquired: 8/16/2021 15:14:51 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.01732**	**.00823**	**.00424**	**.00013**
Stddev	.00013	.01735	.00016	.00051	.00001
%RSD	102.85	100.15	1.9173	11.945	5.1600
#1	.00004	.02959	.00812	.00460	.00013
#2	.00022	.00505	.00834	.00388	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.03198**	**.00004**	**-.0154**	**-.00046**
Stddev	.00004	.00130	.00010	.0154	.00037
%RSD	3316.7	4.0710	266.45	99.57	79.468
#1	-.00003	.03106	-.00003	-.0263	-.00020
#2	.00003	.03290	.00010	-.0046	-.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**-.01921**	**-.00088**	**-.05306**	**9.7453**
Stddev	.00024	.00071	.00148	.02489	.0498
%RSD	44.612	3.7065	168.26	46.905	.51132
#1	.00070	-.01871	.00017	-.07065	9.7101
#2	.00036	-.01971	-.00193	-.03546	9.7806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/16/2021 15:14:51 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03154**	F **-.00383**	**-.00231**	**.01328**	**.00377**
Stddev	.00007	.00001	.00009	.00014	.00020
%RSD	.21180	.16801	4.0092	1.0185	5.3908
#1	-.03158	-.00383	-.00225	.01338	.00363
#2	-.03149	-.00383	-.00238	.01318	.00392
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00033**	**-.0565**	**.00351**	**-.00339**
Stddev	-----	.00053	.0020	.00007	.00012
%RSD	-----	158.95	3.561	2.0882	3.5550
#1	z 154.9	.00070	-.0580	.00356	-.00330
#2	z 154.7	-.00004	-.0551	.00346	-.00347
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**48.914**	**-.00100**	**.00010**	**-.0034**	**20.275**
Stddev	.417	.00044	.00000	.0025	.079
%RSD	.85206	44.191	1.3891	75.38	.38879
#1	48.620	-.00131	.00010	-.0052	20.220
#2	49.209	-.00069	.00010	-.0016	20.331
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX2 Acquired: 8/16/2021 15:14:51 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**20.070**	**-.00228**	**.00302**	**.1314**
Stddev	.021	.00031	.00011	.0132
%RSD	.10283	13.589	3.4768	10.03
#1	20.085	-.00206	.00295	.1407
#2	20.056	-.00250	.00310	.1220
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3507.9**	**2804.8**	**58272.**	**2651.6**
Stddev	6.9	.8	54.	2.5
%RSD	.19718	.02838	.09282	.09266
#1	3503.0	2804.3	58310.	2653.3
#2	3512.8	2805.4	58234.	2649.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.372%	97.856%	96.437%	97.918%
Range				

Sample Name: ICEX3 Acquired: 8/16/2021 15:18:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00435**	**.03331**	**.00180**	**.00035**	**-.00002**
Stddev	.00040	.00704	.00039	.00003	.00000
%RSD	9.2653	21.131	21.575	7.3660	9.7745
#1	.00464	.03828	.00207	.00033	-.00002
#2	.00407	.02833	.00152	.00037	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.02117**	**.00035**	**.0190**	**.00021**
Stddev	.00004	.00238	.00007	.0080	.00011
%RSD	68.422	11.265	18.622	42.17	49.517
#1	-.00009	.01948	.00031	.0247	.00029
#2	-.00003	.02286	.00040	.0133	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00087**	**.00377**	**-.08899**	**-.00060**
Stddev	.00026	.00010	.00623	.03781	.00023
%RSD	42.502	11.248	165.22	42.493	38.523
#1	.00078	.00080	.00818	-.11572	-.00044
#2	.00042	.00094	-.00063	-.06225	-.00077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/16/2021 15:18:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576-2	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}2	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.03055**	**50.327**	**-.00652**	**-.00036**	**.00038**
Stddev	.00059	.145	.00018	.00259	.00018
%RSD	1.9188	.28835	2.8206	725.53	46.839
#1	-.03096	50.224	-.00639	.00148	.00025
#2	-.03014	50.430	-.00665	-.00219	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00588**	**93.93**	**-.00544**	**.00158**
Stddev	-----	.00061	.27	.00044	.00130
%RSD	-----	10.341	.2919	8.0127	82.187
#1	z 150.1	.00545	93.74	-.00513	.00250
#2	z 150.8	.00631	94.13	-.00574	.00066
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00504**	**-.00095**	**.00003**	**-.0046**	**-.00159**
Stddev	.01572	.00011	.00001	.0136	.00035
%RSD	311.79	11.940	35.161	297.4	22.024
#1	.00608	-.00087	.00002	.0051	-.00184
#2	-.01616	-.00103	.00003	-.0142	-.00134
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX3 Acquired: 8/16/2021 15:18:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.01391**	**.00046**	**.00215**	**-.0023**
Stddev	.00063	.00002	.00058	.0010
%RSD	4.5635	5.3502	26.801	41.31
#1	-.01346	.00044	.00256	-.0030
#2	-.01436	.00047	.00174	-.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3724.1**	**2857.3**	**60438.**	**2711.5**
Stddev	4.0	4.0	358.	6.9
%RSD	.10736	.14049	.59178	.25467
#1	3726.9	2860.2	60691.	2716.4
#2	3721.2	2854.5	60185.	2706.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.125%	99.687%	100.02%	100.13%
Range				

Sample Name: ICEX4 Acquired: 8/16/2021 15:22:47 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**-.04917**	**.00295**	**-.00002**	**.00001**
Stddev	.00025	.00378	.00022	.00056	.00001
%RSD	22.462	7.6911	7.3958	3346.6	128.05
#1	.00127	-.04650	.00311	.00038	.00000
#2	.00093	-.05185	.00280	-.00041	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00841**	**-.00123**	**.0370**	**18.847**
Stddev	.00012	.00235	.00005	.0348	.018
%RSD	153.58	27.947	4.3991	94.09	.09462
#1	.00001	.00675	-.00119	.0616	18.835
#2	-.00016	.01007	-.00127	.0124	18.860
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.082**	**.00537**	**-.00511**	**-.08715**	**-.00220**
Stddev	.016	.00027	.00208	.00056	.00018
%RSD	.15560	5.0423	40.605	.64462	8.1517
#1	10.071	.00556	-.00365	-.08675	-.00207
#2	10.093	.00518	-.00658	-.08755	-.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/16/2021 15:22:47 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00246**	F **-.00332**	**-.00381**	**.00029**	**9.8440**
Stddev	.00065	.00004	.00009	.00014	.0033
%RSD	26.592	1.2675	2.4843	49.141	.03385
#1	-.00292	-.00330	-.00374	.00038	9.8416
#2	-.00199	-.00335	-.00387	.00019	9.8463
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00260**	**-.0839**	**.00692**	**-.00297**
Stddev	-----	.00043	.0028	.00076	.00025
%RSD	-----	16.546	3.338	10.943	8.3492
#1	z 145.9	-.00290	-.0819	.00746	-.00315
#2	z 146.7	-.00229	-.0859	.00639	-.00280
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.11066**	**-.00091**	**.00007**	**.0016**	**.00388**
Stddev	.03048	.00046	.00002	.0192	.00015
%RSD	27.548	51.042	24.407	1186.	3.8369
#1	-.13221	-.00058	.00006	-.0120	.00378
#2	-.08910	-.00124	.00008	.0152	.00399
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX4 Acquired: 8/16/2021 15:22:47 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00044**	**.00008**	**.00047**	**-.0018**
Stddev	.00122	.00005	.00063	.0000
%RSD	277.48	56.269	132.40	2.727
#1	.00042	.00011	.00003	-.0017
#2	-.00130	.00005	.00092	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3725.7**	**2846.9**	**60632.**	**2739.1**
Stddev	.9	.9	41.	2.2
%RSD	.02408	.03016	.06777	.07926
#1	3725.1	2846.3	60661.	2737.6
#2	3726.4	2847.5	60602.	2740.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.170%	99.325%	100.34%	101.15%
Range				

Sample Name: ICEX5 Acquired: 8/16/2021 15:26:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.13323**	**.00097**	**.01693**	**-.00011**
Stddev	.00026	.00454	.00023	.00141	.00001
%RSD	50.796	3.4052	24.191	8.3236	7.5603
#1	.00033	.13644	.00113	.01594	-.00011
#2	.00070	.13002	.00080	.01793	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.01055**	**.00010**	**.0089**	**-.00010**
Stddev	.00002	.00195	.00003	.0097	.00011
%RSD	7.7308	18.470	33.674	108.7	110.67
#1	-.00024	.01193	.00008	.0021	-.00002
#2	-.00021	.00917	.00012	.0157	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00028**	**-.00155**	**-.00706**	**-.11456**	**-.00204**
Stddev	.00007	.00000	.00277	.01388	.00117
%RSD	23.542	.10129	39.230	12.117	57.378
#1	-.00023	-.00154	-.00510	-.10474	-.00121
#2	-.00033	-.00155	-.00901	-.12437	-.00287
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/16/2021 15:26:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.05639**	F **-.00370**	**5.2978**	**.00723**	**-.00010**
Stddev	.00101	.00001	.0350	.00026	.00016
%RSD	1.7964	.21640	.66020	3.5597	167.88
#1	-.05567	-.00369	5.2730	.00741	-.00021
#2	-.05710	-.00371	5.3225	.00704	.00002
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00061**	**-.0452**	**.00054**	**-.00386**
Stddev	-----	.00057	.0023	.00090	.00045
%RSD	-----	92.566	5.069	164.99	11.794
#1	z 142.3	.00101	-.0436	-.00009	-.00418
#2	z 143.0	.00021	-.0468	.00118	-.00354
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00154**	**-.00042**	**.00006**	**-.0108**	**.00033**
Stddev	.00297	.00012	.00004	.0108	.00007
%RSD	192.68	28.071	68.332	100.6	21.494
#1	-.00056	-.00050	.00003	-.0184	.00028
#2	.00364	-.00034	.00009	-.0031	.00038
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: ICEX5 Acquired: 8/16/2021 15:26:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00025**	**-.00017**	**.00091**	**.0017**
Stddev	.00064	.00025	.00029	.0012
%RSD	254.31	147.62	31.858	71.25
#1	-.00071	.00001	.00112	.0025
#2	.00020	-.00035	.00071	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3740.8**	**2864.7**	**60767.**	**2716.5**
Stddev	1.1	2.0	138.	18.7
%RSD	.03012	.07020	.22717	.68938
#1	3741.5	2866.2	60865.	2729.7
#2	3740.0	2863.3	60670.	2703.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.570%	99.946%	100.57%	100.31%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 15:30:33 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94928**	**48.346**	**.97409**	**.98819**	**.97172**	**.97779**	**48.804**	**.97696**
Stddev	.00010	.003	.00279	.00008	.00050	.00098	.022	.00034
%RSD	.01031	.00536	.28604	.00813	.05153	.09979	.04536	.03469
#1	.94935	48.347	.97212	.98813	.97208	.97710	48.819	.97672
#2	.94921	48.344	.97606	.98824	.97137	.97848	48.788	.97720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9210**	**.96863**	**.97255**	**.94997**	**48.363**	**48.907**	**.95642**	**47.526**
Stddev	.0127	.00071	.00049	.00275	.106	.108	.00519	.085
%RSD	1.380	.07380	.05038	.28977	.21875	.22156	.54290	.17837
#1	.9120	.96813	.97289	.94802	48.288	48.984	.95275	47.586
#2	.9299	.96914	.97220	.95191	48.438	48.830	.96009	47.466
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.96597**	**1.0692**	**48.957**	**.97101**	z *****	**.97303**	**24.47**	**.97694**
Stddev	.00044	.0077	.074	.00065	-----	.00161	.01	.00277
%RSD	.04514	.72135	.15161	.06701	-----	.16580	.0476	.28350
#1	.96628	1.0746	49.010	.97055	z 9119.	.97189	24.47	.97498
#2	.96566	1.0637	48.905	.97147	z 9120.	.97417	24.48	.97890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 15:30:33 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.97024	9.4053	.97079	.96816	.9565	.97679	.98029	.97831
Stddev	.00164	.0540	.00095	.00003	.0026	.00017	.00088	.00030
%RSD	.16876	.57422	.09759	.00325	.2721	.01739	.09011	.03099
#1	.97140	9.3671	.97012	.96814	.9547	.97667	.98092	.97810
#2	.96909	9.4435	.97146	.96818	.9584	.97691	.97967	.97853
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99039	.8880
Stddev	.00190	.0077
%RSD	.19146	.8646
#1	.99173	.8826
#2	.98905	.8934
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3238.6	2764.1	56808.	2682.4
Stddev	1.4	1.0	79.	6.3
%RSD	.04403	.03581	.13900	.23620
#1	3237.6	2763.4	56752.	2677.9
#2	3239.6	2764.8	56864.	2686.9

Sample Name: CCB-6615058 Acquired: 8/16/2021 15:34:13 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**-.00936**	**-.00068**	**-.00019**	**.00011**	**.00007**	**-.00169**
Stddev	.00024	.00722	.00139	.00003	.00002	.00007	.00217
%RSD	354.90	77.104	204.28	16.768	20.487	94.886	128.25
#1	.00010	-.00426	-.00167	-.00022	.00010	.00012	-.00016
#2	-.00024	-.01447	.00030	-.00017	.00013	.00002	-.00322
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.0172**	**.00004**	**.00011**	**.00002**	**.00819**	**-.08382**
Stddev	.00001	.0061	.00010	.00023	.00028	.00181	.00479
%RSD	10.684	35.52	267.98	205.85	1302.7	22.048	5.7128
#1	-.00007	-.0129	.00011	-.00005	-.00018	.00947	-.08043
#2	-.00008	-.0215	-.00003	.00028	.00022	.00692	-.08721
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**-.00178**	**-.00256**	**-.00002**	F **.02152**	**-.00732**	**.00010**	z *****
Stddev	.00082	.00241	.00004	.00388	.01106	.00011	-----
%RSD	46.222	94.173	269.51	18.045	151.05	113.18	-----
#1	-.00237	-.00427	.00001	.02427	.00050	.00017	z 139.4
#2	-.00120	-.00086	-.00005	.01878	-.01515	.00002	z 139.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	None
High Limit				.01000			
Low Limit				-.01000			

Sample Name: CCB-6615058 Acquired: 8/16/2021 15:34:13 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00096**	**-.0022**	**.00078**	**.00097**	**-.00541**	**-.00035**	**.00005**
Stddev	.00059	.0029	.00106	.00287	.01189	.00041	.00004
%RSD	61.820	133.0	135.95	296.25	219.69	119.79	94.128
#1	.00138	-.0042	.00003	-.00106	-.01382	-.00005	.00002
#2	.00054	-.0001	.00153	.00300	.00300	-.00064	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.00063**	**-.00044**	**-.00009**	**.00033**	**.0004**
Stddev	.0130	.00010	.00070	.00013	.00011	.0004
%RSD	1702.	15.481	161.04	143.49	33.280	94.80
#1	-.0085	.00056	-.00093	.00000	.00025	.0001
#2	.0100	.00070	.00006	-.00018	.00041	.0007
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit						
Low Limit						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3784.2**	**2868.8**	**60726.**	**2710.4**
Stddev	7.1	3.5	238.	30.4
%RSD	.18778	.12363	.39257	1.1198
#1	3779.2	2866.3	60895.	2731.9
#2	3789.3	2871.3	60557.	2689.0

Sample Name: CCVL-6615375 Acquired: 8/16/2021 15:55:49 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00523**	**.20877**	**.01428**	**.01778**	**.00209**	**.00204**	**.49933**
Stddev	.00027	.00689	.00053	.00023	.00001	.00000	.00303
%RSD	5.1804	3.2998	3.6925	1.2761	.66381	.04289	.60641
#1	.00504	.20390	.01391	.01761	.00210	.00204	.49719
#2	.00542	.21364	.01466	.01794	.00208	.00204	.50147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00197**	**.0086**	**.00371**	**.00374**	**.00893**	**.04434**	**.38749**
Stddev	.00005	.0027	.00004	.00022	.00021	.00005	.00741
%RSD	2.2794	31.88	1.0597	5.7924	2.3131	.12151	1.9135
#1	.00201	.0066	.00374	.00389	.00908	.04438	.39273
#2	.00194	.0105	.00369	.00358	.00879	.04430	.38225
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02524**	**.18991**	**.00302**	**.00756**	**.98482**	**.00956**	z *****
Stddev	.00050	.00010	.00006	.00014	.00448	.00006	-----
%RSD	1.9627	.05303	1.8742	1.8071	.45514	.58726	-----
#1	.02489	.18998	.00306	.00746	.98165	.00960	z 137.9
#2	.02559	.18984	.00298	.00766	.98799	.00952	z 138.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Sample Name: CCVL-6615375 Acquired: 8/16/2021 15:55:49 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00956**	**.1808**	**.01878**	W **.01722**	**.45410**	**.00881**	**.00478**
Stddev	.00047	.0024	.00046	.00061	.01663	.00024	.00004
%RSD	4.9382	1.325	2.4408	3.5513	3.6614	2.7097	.83990
#1	.00989	.1791	.01846	.01766	.44234	.00898	.00480
#2	.00922	.1825	.01911	.01679	.46586	.00864	.00475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value				.02500			
Range				-30.000%			

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0028**	**.00495**	**.01903**	**.00497**	**.00956**	**.0001**
Stddev	.0080	.00008	.00089	.00023	.00045	.0013
%RSD	288.2	1.6602	4.6554	4.6970	4.6930	881.2
#1	.0029	.00489	.01966	.00481	.00988	-.0008
#2	-.0085	.00500	.01841	.00514	.00925	.0011
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3745.1**	**2876.3**	**61017.**	**2714.6**
Stddev	1.4	.0	282.	11.4
%RSD	.03635	.00137	.46223	.42174
#1	3746.1	2876.3	60818.	2706.5
#2	3744.2	2876.3	61216.	2722.7

Sample Name: MB 480-592747/1-A Acquired: 8/16/2021 15:59:43 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.02833**	**-.00254**	**.00240**	**.00006**
Stddev	.00015	.01114	.00080	.00024	.00001
%RSD	30.326	39.334	31.507	9.9696	19.703
#1	.00060	.03621	-.00310	.00223	.00005
#2	.00039	.02045	-.00197	.00257	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.06604**	**-.00007**	**-.0086**	**.00013**
Stddev	.00007	.00134	.00009	.0099	.00009
%RSD	83.587	2.0308	129.13	115.6	69.573
#1	.00003	.06699	-.00001	-.0156	.00006
#2	.00013	.06509	-.00013	-.0016	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.00017**	**-.00091**	**-.10824**	**-.00276**
Stddev	.00023	.00004	.00270	.00064	.00167
%RSD	5629.4	21.561	298.48	.59376	60.465
#1	.00017	.00019	.00101	-.10870	-.00394
#2	-.00016	.00014	-.00282	-.10779	-.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592747/1-A Acquired: 8/16/2021 15:59:43 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00153**	**.00007**	**-.00373**	**.00201**	**-.00008**
Stddev	.00189	.00005	.00017	.00381	.00002
%RSD	123.80	64.887	4.6354	189.85	21.400
#1	.00287	.00004	-.00385	.00471	-.00010
#2	.00019	.00010	-.00361	-.00069	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00052**	**-.0040**	**-.00144**	**-.00384**
Stddev	-----	.00076	.0002	.00003	.00234
%RSD	-----	146.38	4.635	2.1648	61.076
#1	z 136.4	-.00106	-.0041	-.00147	-.00218
#2	z 136.4	.00002	-.0038	-.00142	-.00549
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00563**	**-.00098**	**.00033**	**-.0111**	**-.00002**
Stddev	.00088	.00083	.00002	.0103	.00021
%RSD	15.654	84.617	6.4193	92.09	1217.9
#1	-.00625	-.00040	.00035	-.0039	.00013
#2	-.00501	-.00157	.00032	-.0184	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592747/1-A Acquired: 8/16/2021 15:59:43 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00011**	**-.00018**	**.00130**	**.0011**
Stddev	.00073	.00004	.00036	.0017
%RSD	685.18	23.719	27.798	156.8
#1	-.00062	-.00015	.00156	-.0001
#2	.00041	-.00021	.00105	.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3794.6**	**2889.2**	**61161.**	**2757.8**
Stddev	5.9	10.1	102.	12.4
%RSD	.15570	.34850	.16649	.44870
#1	3798.8	2896.3	61089.	2766.6
#2	3790.5	2882.1	61233.	2749.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.00%	100.80%	101.22%	101.84%
Range				

Sample Name: LCS 480-592747/2-A Acquired: 8/16/2021 16:03:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04915**	**10.260**	**.21123**	**.20848**	**.22771**
Stddev	.00012	.043	.00150	.00052	.00039
%RSD	.24268	.41701	.71215	.24940	.17300
#1	.04923	10.230	.21229	.20884	.22743
#2	.04906	10.290	.21016	.20811	.22798
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21520**	**10.429**	**.21066**	**.0030**	**.20057**
Stddev	.00110	.036	.00025	.0191	.00035
%RSD	.51180	.34184	.12096	627.3	.17230
#1	.21442	10.404	.21048	.0166	.20032
#2	.21598	10.455	.21084	-.0105	.20081
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20429**	**.20024**	**10.130**	**10.298**	**.19978**
Stddev	.00069	.00071	.053	.011	.00009
%RSD	.33793	.35546	.51950	.10745	.04413
#1	.20380	.19974	10.092	10.290	.19971
#2	.20478	.20075	10.167	10.306	.19984
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592747/2-A Acquired: 8/16/2021 16:03:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.9810**	**.20938**	**.21664**	**10.496**	**.20202**
Stddev	.0360	.00089	.00149	.067	.00021
%RSD	.36028	.42469	.68554	.64250	.10539
#1	9.9556	.20875	.21559	10.448	.20187
#2	10.006	.21000	.21769	10.543	.20217
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20576**	**10.08**	**.22319**	**.19806**
Stddev	-----	.00064	.02	.00203	.00135
%RSD	-----	.30966	.2033	.90835	.68347
#1	z 158.8	.20530	10.07	.22462	.19902
#2	z 159.1	.20621	10.10	.22176	.19711
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5707**	**.19883**	**.20996**	**.0085**	**.20835**
Stddev	.0403	.00002	.00082	.0037	.00041
%RSD	.42082	.00996	.39000	43.36	.19484
#1	9.5423	.19882	.20938	.0059	.20806
#2	9.5992	.19885	.21054	.0111	.20864
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592747/2-A Acquired: 8/16/2021 16:03:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20885**	**.20584**	**.20732**	**.0193**
Stddev	.00061	.00067	.00114	.0007
%RSD	.29354	.32565	.54773	3.801
#1	.20842	.20536	.20652	.0199
#2	.20928	.20631	.20812	.0188
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3541.6**	**2838.3**	**59435.**	**2747.9**
Stddev	2.9	1.5	52.	20.9
%RSD	.08289	.05119	.08710	.75900
#1	3539.6	2837.3	59398.	2762.7
#2	3543.7	2839.3	59471.	2733.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.270%	99.024%	98.362%	101.47%
Range				

Sample Name: 480-188244-C-1-A Acquired: 8/16/2021 16:07:19 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.09858**	**-.00070**	**.00897**	**.05277**
Stddev	.00007	.01866	.00143	.00032	.00017
%RSD	98.760	18.933	205.22	3.5912	.33075
#1	.00002	.11178	-.00171	.00920	.05289
#2	.00013	.08538	.00031	.00874	.05265
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**8.0760**	**-.00003**	**.0004**	**.00024**
Stddev	.00011	.0437	.00004	.0154	.00005
%RSD	42.688	.54149	117.73	3761.	20.468
#1	.00034	8.1070	-.00001	.0113	.00028
#2	.00018	8.0451	-.00006	-.0105	.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00079**	**.00053**	**.24307**	**.88371**	**.00058**
Stddev	.00044	.00004	.00591	.02445	.00043
%RSD	56.561	8.1032	2.4296	2.7671	74.442
#1	.00047	.00050	.23890	.86642	.00028
#2	.00110	.00056	.24725	.90100	.00089
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-A Acquired: 8/16/2021 16:07:19 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9731**	**.00548**	**-.00290**	**8.8190**	**.00460**
Stddev	.0052	.00010	.00010	.0219	.00008
%RSD	.08728	1.8947	3.6105	.24837	1.7940
#1	5.9768	.00556	-.00282	8.8344	.00466
#2	5.9695	.00541	-.00297	8.8035	.00455
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00028**	**.9600**	**-.00152**	**-.00390**
Stddev	-----	.00047	.0032	.00108	.00269
%RSD	-----	168.36	.3295	70.929	69.080
#1	z 146.7	.00061	.9577	-.00228	-.00200
#2	z 147.1	-.00005	.9622	-.00076	-.00581
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0537**	**-.00105**	**.04115**	**.0010**	**.00363**
Stddev	.0385	.00010	.00006	.0021	.00021
%RSD	.76115	9.3224	.13934	206.7	5.8788
#1	5.0809	-.00099	.04119	.0025	.00378
#2	5.0265	-.00112	.04111	-.0005	.00348
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-A Acquired: 8/16/2021 16:07:19 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00100**	**.00022**	**.00720**	**.0008**
Stddev	.00013	.00009	.00010	.0007
%RSD	12.962	42.516	1.3771	85.58
#1	.00091	.00016	.00713	.0012
#2	.00110	.00029	.00727	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3638.7**	**2839.9**	**60455.**	**2786.7**
Stddev	2.9	4.3	53.	16.8
%RSD	.07958	.15281	.08833	.60321
#1	3640.7	2843.0	60417.	2774.8
#2	3636.6	2836.8	60493.	2798.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.853%	99.079%	100.05%	102.91%
Range				

Sample Name: 480-188244-C-1-ASD@5 Acquired: 8/16/2021 16:11:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.03336**	**-.00163**	**.00078**	**.01063**
Stddev	.00015	.00234	.00070	.00056	.00001
%RSD	77.153	7.0064	43.084	71.534	.04858
#1	.00009	.03501	-.00213	.00117	.01062
#2	.00030	.03170	-.00114	.00038	.01063
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**1.6212**	**-.00010**	**.0214**	**.00016**
Stddev	.00000	.0042	.00002	.0104	.00013
%RSD	3.0712	.25812	21.792	48.41	77.147
#1	.00009	1.6241	-.00012	.0288	.00025
#2	.00010	1.6182	-.00009	.0141	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**-.00017**	**.04422**	**.07775**	**-.00175**
Stddev	.00007	.00016	.00128	.01490	.00012
%RSD	30.411	96.014	2.8991	19.162	6.5753
#1	.00027	-.00005	.04513	.06722	-.00183
#2	.00018	-.00029	.04331	.08829	-.00167
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-ASD@5 Acquired: 8/16/2021 16:11:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.1929**	**-.00216**	**-.00391**	**1.7636**	**.00074**
Stddev	.0078	.00001	.00010	.0021	.00003
%RSD	.65083	.57103	2.4926	.11718	3.5318
#1	1.1984	-.00217	-.00398	1.7651	.00076
#2	1.1874	-.00215	-.00384	1.7622	.00072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00024**	**.1782**	**-.00044**	**-.00608**
Stddev	-----	.00099	.0018	.00020	.00005
%RSD	-----	418.65	1.033	44.529	.73970
#1	z 139.8	.00094	.1795	-.00058	-.00612
#2	z 138.6	-.00046	.1769	-.00030	-.00605
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.98316**	**-.00145**	**.00819**	**-.0061**	**.00038**
Stddev	.04405	.00006	.00004	.0082	.00028
%RSD	4.4809	3.8047	.50120	135.6	74.577
#1	.95201	-.00149	.00816	-.0003	.00018
#2	1.0143	-.00141	.00822	-.0119	.00057
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-ASD@5 Acquired: 8/16/2021 16:11:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00029**	**.00009**	**.00181**	**.0000**
Stddev	.00016	.00023	.00010	.0003
%RSD	56.176	274.00	5.7922	2419.
#1	.00040	.00025	.00174	-.0002
#2	.00017	-.00008	.00188	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3736.8**	**2860.9**	**60858.**	**2739.3**
Stddev	2.5	6.7	198.	5.1
%RSD	.06731	.23515	.32533	.18457
#1	3738.6	2865.7	60718.	2742.9
#2	3735.0	2856.2	60998.	2735.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	99.465%	99.813%	100.72%	101.16%
Range				

Sample Name: 480-188244-C-1-APDs Acquired: 8/16/2021 16:15:05 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04852**	**10.190**	**.20538**	**.21218**	**.27080**
Stddev	.00060	.026	.00175	.00054	.00307
%RSD	1.2409	.25664	.85201	.25520	1.1347
#1	.04895	10.172	.20414	.21180	.27297
#2	.04810	10.209	.20662	.21256	.26863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21116**	**17.938**	**.20615**	**-.0050**	**.19634**
Stddev	.00092	.031	.00016	.0021	.00023
%RSD	.43740	.17025	.07548	42.65	.11919
#1	.21181	17.960	.20604	-.0064	.19617
#2	.21051	17.917	.20626	-.0035	.19650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20116**	**.19843**	**10.285**	**11.041**	**.20428**
Stddev	.00118	.00189	.040	.010	.00049
%RSD	.58758	.95000	.38484	.09342	.23849
#1	.20200	.19976	10.313	11.048	.20462
#2	.20033	.19710	10.257	11.033	.20394
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-APDs Acquired: 8/16/2021 16:15:05 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**15.862**	**.21120**	**.21096**	**18.996**	**.20188**
Stddev	.163	.00224	.00013	.045	.00010
%RSD	1.0252	1.0625	.06238	.23793	.05067
#1	15.977	.21279	.21087	19.028	.20196
#2	15.747	.20962	.21106	18.964	.20181
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20247**	**11.01**	**.21672**	**.19028**
Stddev	-----	.00128	.05	.00091	.00385
%RSD	-----	.63023	.4517	.41788	2.0241
#1	z 165.9	.20157	10.97	.21736	.18756
#2	z 167.0	.20337	11.04	.21608	.19300
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.677**	**.19598**	**.24659**	**.0013**	**.20876**
Stddev	.042	.00047	.00089	.0137	.00115
%RSD	.28344	.23993	.35964	1072.	.55214
#1	14.648	.19631	.24722	-.0084	.20794
#2	14.707	.19565	.24596	.0110	.20957
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-APDs Acquired: 8/16/2021 16:15:05 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20475**	**.20208**	**.20975**	**.0176**
Stddev	.00101	.00018	.00061	.0013
%RSD	.49452	.09116	.29112	7.335
#1	.20546	.20221	.21019	.0185
#2	.20403	.20195	.20932	.0167
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3485.0**	**2819.1**	**58937.**	**2736.7**
Stddev	.9	.6	126.	1.1
%RSD	.02557	.02076	.21405	.03978
#1	3485.6	2818.7	58848.	2735.9
#2	3484.3	2819.5	59026.	2737.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.762%	98.355%	97.538%	101.06%
Range				

Sample Name: 480-188244-C-1-B MS Acquired: 8/16/2021 16:18:50 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05001**	**10.437**	**.21147**	**.21539**	**.27611**
Stddev	.00007	.075	.00079	.00033	.00006
%RSD	.14525	.72050	.37250	.15440	.02105
#1	.05006	10.384	.21091	.21563	.27607
#2	.04996	10.490	.21202	.21516	.27616
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21480**	**18.331**	**.20921**	**.0231**	**.19982**
Stddev	.00105	.167	.00015	.0082	.00053
%RSD	.48853	.90897	.07074	35.59	.26697
#1	.21406	18.213	.20931	.0173	.19945
#2	.21554	18.448	.20910	.0289	.20020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20380**	**.20123**	**10.391**	**11.252**	**.20554**
Stddev	.00036	.00010	.157	.078	.00231
%RSD	.17575	.05016	1.5099	.69086	1.1251
#1	.20405	.20130	10.280	11.197	.20391
#2	.20354	.20116	10.502	11.307	.20718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-B MS Acquired: 8/16/2021 16:18:50 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.152**	**.21453**	**.21670**	**19.404**	**.20522**
Stddev	.072	.00065	.00031	.159	.00094
%RSD	.44409	.30258	.14280	.81907	.45728
#1	16.203	.21499	.21648	19.292	.20455
#2	16.102	.21407	.21692	19.517	.20588
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20516**	**11.10**	**.22315**	**.19813**
Stddev	-----	.00164	.01	.00193	.00358
%RSD	-----	.79987	.1109	.86568	1.8083
#1	z 166.6	.20632	11.11	.22178	.20066
#2	z 167.3	.20400	11.09	.22451	.19559
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.997**	**.19990**	**.25185**	**.0109**	**.21126**
Stddev	.139	.00079	.00140	.0112	.00075
%RSD	.92768	.39442	.55481	102.7	.35478
#1	14.899	.20045	.25086	.0030	.21179
#2	15.095	.19934	.25283	.0188	.21073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-B MS Acquired: 8/16/2021 16:18:50 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20763**	**.20490**	**.21241**	**.0106**
Stddev	.00028	.00110	.00131	.0006
%RSD	.13491	.53771	.61737	5.418
#1	.20744	.20412	.21334	.0110
#2	.20783	.20568	.21148	.0102
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3485.7**	**2818.9**	**58786.**	**2740.3**
Stddev	3.2	2.2	57.	26.9
%RSD	.09189	.07940	.09689	.98302
#1	3483.5	2817.4	58746.	2759.4
#2	3488.0	2820.5	58827.	2721.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.782%	98.348%	97.289%	101.19%
Range				

Sample Name: 480-188244-C-1-C MSD Acquired: 8/16/2021 16:22:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04984**	**10.536**	**.21412**	**.21828**	**.28168**
Stddev	.00043	.014	.00194	.00032	.00065
%RSD	.86316	.13276	.90542	.14724	.23160
#1	.04954	10.546	.21549	.21851	.28214
#2	.05015	10.526	.21275	.21805	.28122
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21652**	**18.387**	**.21187**	**.0279**	**.20325**
Stddev	.00114	.044	.00021	.0085	.00004
%RSD	.52844	.23732	.10021	30.35	.01977
#1	.21733	18.418	.21172	.0219	.20323
#2	.21571	18.357	.21202	.0339	.20328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20589**	**.20316**	**10.683**	**11.386**	**.20347**
Stddev	.00034	.00102	.017	.015	.00144
%RSD	.16285	.50387	.15609	.13162	.70829
#1	.20565	.20244	10.695	11.396	.20449
#2	.20613	.20388	10.671	11.375	.20245
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-C MSD Acquired: 8/16/2021 16:22:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**16.178**	**.21725**	**.22040**	**19.426**	**.20911**
Stddev	.007	.00069	.00034	.079	.00004
%RSD	.04424	.31921	.15328	.40919	.01779
#1	16.173	.21676	.22017	19.482	.20908
#2	16.183	.21774	.22064	19.370	.20914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20746**	**11.26**	**.22827**	**.20253**
Stddev	-----	.00133	.01	.00243	.00042
%RSD	-----	.64290	.0783	1.0648	.20600
#1	z 166.8	.20652	11.26	.22655	.20224
#2	z 167.5	.20841	11.25	.22999	.20283
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.957**	**.20234**	**.25273**	**-.0006**	**.21465**
Stddev	.047	.00157	.00118	.0135	.00029
%RSD	.31342	.77803	.46623	2386.	.13731
#1	14.924	.20123	.25356	.0090	.21444
#2	14.990	.20346	.25189	-.0101	.21486
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-1-C MSD Acquired: 8/16/2021 16:22:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.21113**	**.20845**	**.21452**	**.0072**
Stddev	.00151	.00022	.00115	.0008
%RSD	.71431	.10769	.53377	11.49
#1	.21006	.20830	.21371	.0077
#2	.21219	.20861	.21533	.0066
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3484.8**	**2819.2**	**59016.**	**2760.9**
Stddev	.0	1.4	251.	7.8
%RSD	.00124	.04946	.42580	.28248
#1	3484.8	2818.2	59194.	2755.4
#2	3484.8	2820.1	58839.	2766.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.757%	98.356%	97.670%	101.95%
Range				

Sample Name: 480-188244-C-2-A Acquired: 8/16/2021 16:26:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00013**	**.01449**	**-.00110**	**.01371**	**.03771**
Stddev	.00000	.02083	.00163	.00025	.00006
%RSD	2.2599	143.79	148.48	1.8126	.15129
#1	.00013	-.00024	-.00225	.01389	.03767
#2	.00014	.02922	.00005	.01353	.03775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**12.545**	**-.00006**	**-.0289**	**.00005**
Stddev	.00003	.019	.00010	.0063	.00016
%RSD	22.601	.14980	179.06	21.90	308.10
#1	.00012	12.532	.00002	-.0334	-.00006
#2	.00017	12.559	-.00013	-.0244	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00073**	**.00063**	**.00953**	**.85970**	**.00513**
Stddev	.00016	.00036	.00287	.00435	.00045
%RSD	22.391	57.662	30.092	.50620	8.7544
#1	.00062	.00037	.01156	.85663	.00544
#2	.00085	.00089	.00750	.86278	.00481
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-2-A Acquired: 8/16/2021 16:26:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0215**	**-.00072**	**-.00293**	**12.951**	**.00100**
Stddev	.0141	.00005	.00012	.048	.00036
%RSD	.17517	6.6680	3.9693	.36873	36.277
#1	8.0116	-.00069	-.00285	12.917	.00074
#2	8.0314	-.00076	-.00301	12.985	.00126
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00031**	**1.323**	**-.00068**	**-.00175**
Stddev	-----	.00049	.001	.00044	.00066
%RSD	-----	157.37	.0865	65.050	37.751
#1	z 156.0	.00066	1.324	-.00099	-.00129
#2	z 155.7	-.00004	1.322	-.00037	-.00222
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9116**	**-.00106**	**.05819**	**-.0169**	**.00003**
Stddev	.0561	.00076	.00007	.0057	.00018
%RSD	.81180	71.401	.12549	33.58	692.75
#1	6.8720	-.00053	.05814	-.0210	.00016
#2	6.9513	-.00160	.05824	-.0129	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-2-A Acquired: 8/16/2021 16:26:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00004**	**.00466**	**.0016**
Stddev	.00075	.00012	.00078	.0009
%RSD	235.66	314.95	16.637	54.06
#1	-.00021	-.00005	.00521	.0010
#2	.00085	.00012	.00411	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3606.9**	**2830.9**	**59598.**	**2724.4**
Stddev	5.7	2.4	80.	.3
%RSD	.15906	.08594	.13494	.01193
#1	3611.0	2832.6	59655.	2724.2
#2	3602.9	2829.2	59541.	2724.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.008%	98.766%	98.632%	100.61%
Range				

Sample Name: 480-188244-C-3-A Acquired: 8/16/2021 16:30:13 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.02506**	**.00245**	**.60892**	**.08698**
Stddev	.00043	.01123	.00008	.00144	.00008
%RSD	435.01	44.808	3.3141	.23677	.09479
#1	.00041	.01712	.00250	.60790	.08692
#2	-.00021	.03300	.00239	.60994	.08704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**176.93**	**.00010**	**-.0045**	**.00218**
Stddev	.00006	.70	.00005	.0054	.00015
%RSD	283.62	.39405	49.503	120.9	6.9224
#1	.00007	177.42	.00014	-.0083	.00228
#2	-.00002	176.43	.00007	-.0007	.00207
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00166**	**.00997**	**.00448**	**2.8741**	**.03010**
Stddev	.00015	.00024	.00004	.0045	.00010
%RSD	9.0077	2.4100	.93439	.15698	.34067
#1	.00177	.00980	.00445	2.8709	.03017
#2	.00156	.01014	.00451	2.8773	.03003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-3-A Acquired: 8/16/2021 16:30:13 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**83.153**	**.01127**	**-.00370**	**166.21**	**.01746**
Stddev	.136	.00011	.00014	.68	.00008
%RSD	.16378	.96217	3.8052	.41124	.43789
#1	83.250	.01135	-.00380	166.70	.01751
#2	83.057	.01119	-.00360	165.73	.01740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00074**	**20.77**	**-.00058**	**-.01230**
Stddev	-----	.00037	.03	.00124	.00093
%RSD	-----	50.801	.1603	213.13	7.5686
#1	z 214.4	.00100	20.75	.00030	-.01295
#2	z 214.6	.00047	20.80	-.00146	-.01164
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.4579**	**-.00074**	**1.0329**	**-.0052**	**.00115**
Stddev	.0467	.00048	.0056	.0023	.00011
%RSD	.55259	65.848	.53903	45.31	9.7948
#1	8.4249	-.00108	1.0368	-.0035	.00107
#2	8.4910	-.00039	1.0289	-.0068	.00123
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-3-A Acquired: 8/16/2021 16:30:13 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00192**	**-.00021**	**.00460**	**.0018**
Stddev	.00092	.00013	.00036	.0009
%RSD	48.275	61.336	7.7200	49.44
#1	.00126	-.00030	.00435	.0011
#2	.00257	-.00012	.00485	.0024
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3095.4**	**2629.2**	**54673.**	**2664.9**
Stddev	1.4	2.8	257.	10.6
%RSD	.04395	.10491	.47031	.39961
#1	3096.3	2631.1	54491.	2657.4
#2	3094.4	2627.2	54855.	2672.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.391%	91.729%	90.481%	98.410%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 16:34:05 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95261**	**48.293**	**.96881**	**.99082**	**.98861**	**.98573**	**48.641**	**.97876**
Stddev	.00021	.097	.00570	.00203	.00067	.00056	.048	.00027
%RSD	.02196	.19998	.58790	.20530	.06780	.05673	.09841	.02788
#1	.95246	48.361	.97284	.99226	.98813	.98534	48.608	.97895
#2	.95276	48.224	.96478	.98938	.98908	.98613	48.675	.97857
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.015**	**.97478**	**.97318**	**.95713**	**49.050**	**49.011**	**.95753**	**47.739**
Stddev	.012	.00016	.00073	.00212	.102	.077	.00304	.137
%RSD	1.189	.01660	.07486	.22180	.20783	.15632	.31697	.28798
#1	1.023	.97489	.97370	.95863	48.978	49.066	.95539	47.642
#2	1.006	.97467	.97267	.95563	49.122	48.957	.95968	47.836
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97336**	**.99285**	**49.230**	**.97059**	z *****	**.97501**	**24.47**	**.96600**
Stddev	.00109	.00302	.012	.00012	-----	.00276	.02	.00342
%RSD	.11199	.30455	.02511	.01238	-----	.28294	.0652	.35455
#1	.97259	.99071	49.239	.97051	z 9177.	.97306	24.46	.96358
#2	.97414	.99499	49.222	.97068	z 9181.	.97696	24.48	.96842
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 16:34:05 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96728	9.7734	.97296	.97420	.9493	.97286	.98192	.97550
Stddev	.00824	.0591	.00161	.00086	.0176	.00159	.00081	.00024
%RSD	.85208	.60426	.16582	.08839	1.851	.16312	.08203	.02445
#1	.97311	9.8152	.97410	.97481	.9369	.97174	.98249	.97534
#2	.96145	9.7317	.97182	.97359	.9617	.97398	.98135	.97567
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99815	.9077
Stddev	.00404	.0063
%RSD	.40436	.6975
#1	.99530	.9032
#2	1.0010	.9121
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3240.0	2779.6	56724.	2669.1
Stddev	1.0	2.2	58.	3.9
%RSD	.03116	.07986	.10233	.14544
#1	3239.2	2778.0	56683.	2671.8
#2	3240.7	2781.2	56765.	2666.3

Sample Name: CCB-6615058 Acquired: 8/16/2021 16:37:46 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.00674**	**.00016**	**-.00050**	**.00009**	**-.00003**	**-.00222**	**-.00004**
Stddev	.00032	.01072	.00013	.00006	.00001	.00004	.00424	.00007
%RSD	385.62	159.22	83.435	11.585	13.520	145.74	191.17	162.17
#1	-.00015	.01432	.00025	-.00055	.00008	.00000	-.00522	.00001
#2	.00031	-.00085	.00006	-.00046	.00010	-.00005	.00078	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0062**	**-.00010**	**.00001**	**-.00009**	**.00396**	**-.06911**	**-.00191**	**.00010**
Stddev	.0219	.00019	.00014	.00016	.00281	.02443	.00089	.00113
%RSD	350.4	189.13	1206.8	180.42	71.129	35.352	46.669	1113.8
#1	.0092	-.00023	.00011	.00003	.00197	-.05183	-.00254	.00090
#2	-.0217	.00003	-.00009	-.00021	.00595	-.08638	-.00128	-.00070
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00003**	**.00404**	**.00014**	**-.00005**	z *****	**.00013**	**-.0125**	**-.00028**
Stddev	.00011	.00115	.00418	.00014	-----	.00017	.0017	.00125
%RSD	418.35	28.486	3086.2	285.69	-----	131.91	13.67	450.35
#1	-.00010	.00485	.00309	-.00015	z 138.3	.00001	-.0137	.00061
#2	.00005	.00322	-.00282	.00005	z 138.6	.00025	-.0113	-.00116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 16:37:46 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00090	-.00002	-.00064	-.00001	-.0028	.00047	-.00056	-.00032
Stddev	.00150	.00273	.00026	.00003	.0029	.00017	.00062	.00003
%RSD	167.92	14205.	40.613	272.18	104.9	35.813	111.45	8.6591
#1	-.00017	-.00195	-.00045	.00001	-.0048	.00035	-.00012	-.00034
#2	.00196	.00191	-.00082	-.00003	-.0007	.00059	-.00099	-.00030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	-.00008	.0018
Stddev	.00031	.0009
%RSD	385.43	52.56
#1	-.00030	.0011
#2	.00014	.0024
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3762.6	2869.3	60500.	2697.9
Stddev	2.0	3.3	242.	18.9
%RSD	.05372	.11670	.39946	.69919
#1	3761.2	2867.0	60671.	2711.3
#2	3764.0	2871.7	60329.	2684.6

Sample Name: CCVL-6615375 Acquired: 8/16/2021 16:41:42 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00566**	**.18402**	**.01427**	**.01757**	**.00212**	**.00202**	**.49810**	**.00198**
Stddev	.00074	.00482	.00191	.00025	.00000	.00012	.00394	.00017
%RSD	13.010	2.6193	13.405	1.4219	.10091	5.9656	.79068	8.7516
#1	.00514	.18061	.01563	.01740	.00213	.00193	.49532	.00185
#2	.00618	.18743	.01292	.01775	.00212	.00210	.50089	.00210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0017**	**.00374**	**.00390**	**.00912**	**.04785**	**.39476**	**.02654**	**.19168**
Stddev	.0069	.00014	.00012	.00000	.00118	.00915	.00080	.00262
%RSD	406.7	3.7159	2.9725	.01199	2.4759	2.3175	2.9991	1.3684
#1	-.0065	.00364	.00398	.00912	.04869	.38829	.02711	.18983
#2	.0032	.00384	.00382	.00912	.04701	.40123	.02598	.19354
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00315**	**.00797**	**1.0051**	**.00945**	z *****	**.00949**	**.1808**	**.01997**
Stddev	.00004	.00006	.0092	.00001	-----	.00041	.0001	.00090
%RSD	1.3137	.70244	.91004	.10855	-----	4.3374	.0577	4.5202
#1	.00317	.00801	.99864	.00945	z 139.0	.00978	.1809	.01933
#2	.00312	.00793	1.0116	.00944	z 138.6	.00920	.1807	.02061
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 16:41:42 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02069	.44514	.00793	.00483	-.0023	.00450	.01918	.00468
Stddev	.00062	.00464	.00010	.00001	.0064	.00014	.00071	.00032
%RSD	2.9977	1.0416	1.3137	.26876	281.6	3.1951	3.7082	6.8433
#1	.02026	.44842	.00800	.00482	.0022	.00440	.01968	.00491
#2	.02113	.44186	.00785	.00484	-.0068	.00460	.01867	.00446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00923	.0015
Stddev	.00010	.0000
%RSD	1.0675	1.000
#1	.00929	.0015
#2	.00916	.0015
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3748.1	2873.8	60649.	2702.9
Stddev	5.6	.3	76.	22.4
%RSD	.15004	.01182	.12519	.82977
#1	3744.1	2874.0	60596.	2718.8
#2	3752.1	2873.5	60703.	2687.1

Sample Name: 480-188244-C-4-A Acquired: 8/16/2021 16:45:36 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00025**	**.05270**	**-.00172**	**.05049**	**.09873**
Stddev	.00043	.01312	.00140	.00057	.00004
%RSD	170.84	24.896	81.587	1.1248	.04065
#1	-.00056	.04343	-.00073	.05089	.09870
#2	.00005	.06198	-.00271	.05009	.09876
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00110**	**4.7058**	**.00007**	**-.0031**	**.00345**
Stddev	.00007	.0112	.00000	.0064	.00007
%RSD	6.5519	.23690	7.3469	206.7	2.0301
#1	.00115	4.7137	.00007	.0014	.00350
#2	.00105	4.6979	.00006	-.0077	.00340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.02590**	**-.00094**	**1.1480**	**-.00004**
Stddev	.00025	.00011	.00597	.0169	.00055
%RSD	46.726	.41070	635.46	1.4710	1356.0
#1	.00071	.02597	-.00516	1.1600	.00035
#2	.00036	.02582	.00328	1.1361	-.00043
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-4-A Acquired: 8/16/2021 16:45:36 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0803**	**.01330**	**-.00346**	**9.1911**	**.03487**
Stddev	.0001	.00000	.00011	.0090	.00023
%RSD	.00222	.00637	3.2045	.09796	.64755
#1	5.0802	.01330	-.00354	9.1848	.03503
#2	5.0804	.01330	-.00338	9.1975	.03471
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00025**	**6.238**	**-.00089**	**-.00500**
Stddev	-----	.00033	.003	.00212	.00032
%RSD	-----	131.84	.0532	238.80	6.4765
#1	z 144.6	.00048	6.241	.00061	-.00477
#2	z 143.6	.00002	6.236	-.00239	-.00523
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9442**	**-.00105**	**.05522**	**.0072**	**-.00016**
Stddev	.0339	.00078	.00002	.0134	.00008
%RSD	.48863	74.283	.04406	186.0	50.570
#1	6.9682	-.00160	.05520	.0166	-.00010
#2	6.9202	-.00050	.05524	-.0023	-.00022
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-4-A Acquired: 8/16/2021 16:45:36 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00014**	**-.00044**	**.06747**	**-.0004**
Stddev	.00029	.00025	.00029	.0010
%RSD	206.73	58.444	.42997	219.6
#1	-.00007	-.00026	.06727	-.0011
#2	.00035	-.00062	.06768	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3664.2**	**2853.7**	**60377.**	**2765.3**
Stddev	4.3	2.8	43.	2.0
%RSD	.11695	.09756	.07047	.07088
#1	3661.2	2851.8	60407.	2763.9
#2	3667.3	2855.7	60347.	2766.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.533%	99.562%	99.921%	102.12%
Range				

Sample Name: 480-188244-C-5-A Acquired: 8/16/2021 16:49:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.06797**	**-.00018**	**.01001**	**.06922**
Stddev	.00023	.01068	.00184	.00029	.00005
%RSD	780.85	15.717	1008.3	2.9226	.06708
#1	-.00013	.06042	-.00148	.01022	.06925
#2	.00019	.07552	.00112	.00981	.06918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**4.9440**	**-.00004**	**-.0199**	**.00346**
Stddev	.00001	.0053	.00003	.0038	.00003
%RSD	1.9243	.10625	76.779	18.97	.89977
#1	.00070	4.9477	-.00007	-.0226	.00349
#2	.00072	4.9403	-.00002	-.0173	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.02707**	**.00616**	**.84545**	**-.00047**
Stddev	.00011	.00033	.00345	.00013	.00040
%RSD	16.172	1.2326	56.062	.01528	84.706
#1	.00063	.02730	.00372	.84554	-.00019
#2	.00079	.02683	.00860	.84536	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-5-A Acquired: 8/16/2021 16:49:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9088**	**.02411**	**-.00401**	**7.0512**	**.02431**
Stddev	.0336	.00021	.00015	.0343	.00022
%RSD	.56930	.89123	3.7139	.48680	.88731
#1	5.8851	.02396	-.00391	7.0755	.02447
#2	5.9326	.02426	-.00412	7.0269	.02416
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00024**	**3.480**	**-.00055**	**-.00295**
Stddev	-----	.00043	.008	.00008	.00315
%RSD	-----	177.02	.2292	14.646	106.95
#1	z 147.2	.00006	3.474	-.00061	-.00072
#2	z 146.8	-.00055	3.485	-.00050	-.00517
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.2463**	**-.00079**	**.04486**	**-.0108**	**-.00024**
Stddev	.0010	.00021	.00016	.0046	.00000
%RSD	.01987	26.298	.36150	42.56	.01035
#1	5.2470	-.00094	.04497	-.0141	-.00024
#2	5.2455	-.00064	.04474	-.0076	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-5-A Acquired: 8/16/2021 16:49:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00073**	**-.00012**	**.07820**	**.0010**
Stddev	.00022	.00001	.00013	.0001
%RSD	29.488	8.2405	.16145	7.520
#1	.00088	-.00013	.07811	.0011
#2	.00058	-.00012	.07829	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3669.9**	**2866.5**	**59988.**	**2729.8**
Stddev	6.8	6.6	155.	2.1
%RSD	.18458	.23103	.25833	.07853
#1	3674.7	2871.2	60097.	2731.4
#2	3665.1	2861.8	59878.	2728.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.685%	100.01%	99.277%	100.81%
Range				

Sample Name: 480-188244-C-6-A Acquired: 8/16/2021 16:53:17 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00041**	**.02005**	**-.00056**	**.01158**	**.01410**
Stddev	.00022	.00885	.00234	.00014	.00002
%RSD	52.099	44.156	417.60	1.2056	.17561
#1	.00057	.01379	.00109	.01148	.01409
#2	.00026	.02631	-.00221	.01168	.01412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**6.8333**	**.00006**	**-.0118**	**-.00012**
Stddev	.00003	.0118	.00003	.0014	.00018
%RSD	12.328	.17249	51.067	11.41	146.02
#1	.00023	6.8417	.00004	-.0128	-.00024
#2	.00028	6.8250	.00008	-.0109	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00766**	**.00521**	**.83753**	**.00609**
Stddev	.00003	.00020	.00200	.00769	.00033
%RSD	4.5700	2.6536	38.317	.91866	5.4777
#1	.00066	.00780	.00662	.84297	.00585
#2	.00062	.00751	.00380	.83209	.00632
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-6-A Acquired: 8/16/2021 16:53:17 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.3617**	**-.00104**	**-.00408**	**5.7716**	**.00317**
Stddev	.0982	.00003	.00007	.0086	.00013
%RSD	1.0484	2.9799	1.8129	.14970	4.1948
#1	9.2923	-.00107	-.00414	5.7777	.00308
#2	9.4311	-.00102	-.00403	5.7655	.00327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00052**	**2.185**	**-.00086**	**-.00443**
Stddev	-----	.00048	.000	.00098	.00015
%RSD	-----	92.524	.0025	113.70	3.4817
#1	z 165.9	.00018	2.185	-.00156	-.00433
#2	z 165.5	.00086	2.185	-.00017	-.00454
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7964**	**-.00145**	**.03935**	**-.0107**	**.00001**
Stddev	.0076	.00005	.00010	.0070	.00009
%RSD	.15756	3.3960	.26576	65.05	1564.2
#1	4.8018	-.00141	.03942	-.0156	.00007
#2	4.7911	-.00148	.03927	-.0058	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-6-A Acquired: 8/16/2021 16:53:17 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00004**	**-.00033**	**.00554**	**.0014**
Stddev	.00027	.00021	.00043	.0007
%RSD	732.30	65.126	7.6871	48.37
#1	-.00015	-.00018	.00584	.0019
#2	.00023	-.00048	.00524	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3634.0**	**2851.4**	**60118.**	**2751.3**
Stddev	2.8	6.8	34.	19.1
%RSD	.07731	.23727	.05629	.69292
#1	3632.0	2846.6	60142.	2737.9
#2	3636.0	2856.2	60094.	2764.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.728%	99.481%	99.493%	101.60%
Range				

Sample Name: 480-188244-C-7-A Acquired: 8/16/2021 16:57:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.04213**	**.00011**	**.02556**	**.24380**
Stddev	.00010	.00238	.00051	.00011	.00065
%RSD	27.302	5.6381	474.86	.44121	.26553
#1	.00031	.04045	-.00025	.02564	.24334
#2	.00045	.04380	.00047	.02548	.24426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00009**	**18.473**	**.00003**	**.0111**	**-.00009**
Stddev	.00001	.117	.00013	.0039	.00000
%RSD	13.173	.63561	458.64	34.84	4.7370
#1	.00008	18.390	.00012	.0084	-.00010
#2	.00010	18.556	-.00006	.0139	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00053**	**.00144**	**.00409**	**4.5238**	**.00166**
Stddev	.00033	.00031	.00168	.0499	.00078
%RSD	63.721	21.740	41.016	1.1040	46.847
#1	.00076	.00166	.00527	4.4885	.00221
#2	.00029	.00122	.00290	4.5592	.00111
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-7-A Acquired: 8/16/2021 16:57:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.965**	**-.00130**	**-.00411**	**16.773**	**.00439**
Stddev	.034	.00006	.00011	.079	.00010
%RSD	.28259	4.4165	2.6147	.46905	2.1822
#1	11.941	-.00134	-.00418	16.718	.00433
#2	11.989	-.00125	-.00403	16.829	.00446
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00090**	**5.279**	**-.00036**	**-.00519**
Stddev	-----	.00137	.004	.00255	.00206
%RSD	-----	153.59	.0683	699.54	39.778
#1	z 158.3	.00187	5.282	-.00217	-.00373
#2	z 157.9	-.00008	5.277	.00144	-.00664
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.8559**	**-.00107**	**.14025**	**-.0124**	**.00001**
Stddev	.0338	.00110	.00086	.0075	.00012
%RSD	.38132	102.37	.61121	60.30	939.54
#1	8.8320	-.00184	.13964	-.0178	-.00007
#2	8.8798	-.00030	.14085	-.0071	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-7-A Acquired: 8/16/2021 16:57:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00004**	**.01128**	**-.0008**
Stddev	.00035	.00027	.00024	.0004
%RSD	86.450	704.25	2.1139	49.52
#1	.00065	-.00015	.01144	-.0011
#2	.00016	.00023	.01111	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3552.5**	**2829.6**	**59268.**	**2737.2**
Stddev	4.8	1.0	184.	24.4
%RSD	.13558	.03556	.31095	.89273
#1	3555.9	2830.3	59399.	2754.5
#2	3549.1	2828.9	59138.	2719.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.560%	98.721%	98.086%	101.08%
Range				

Sample Name: 480-188244-C-8-A Acquired: 8/16/2021 17:01:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.01668**	**-.00207**	**.04499**	**.27559**
Stddev	.00048	.01525	.00077	.00051	.00132
%RSD	1557.6	91.378	37.101	1.1409	.47809
#1	.00037	.02747	-.00153	.04463	.27466
#2	-.00031	.00590	-.00262	.04535	.27652
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**27.875**	**.00009**	**-.0011**	**-.00009**
Stddev	.00007	.058	.00012	.0341	.00025
%RSD	84.874	.20933	145.15	2977.	274.41
#1	.00003	27.834	.00017	.0229	.00009
#2	.00014	27.916	-.00000	-.0252	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00048**	**-.00140**	**4.9594**	**.00458**
Stddev	.00003	.00036	.00087	.0089	.00077
%RSD	7.1109	75.858	61.975	.17924	16.741
#1	.00038	.00074	-.00079	4.9531	.00512
#2	.00042	.00022	-.00202	4.9657	.00404
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-8-A Acquired: 8/16/2021 17:01:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.350**	**-.00148**	**-.00429**	**24.463**	**.00122**
Stddev	.006	.00003	.00007	.064	.00029
%RSD	.03637	2.1582	1.5942	.26302	23.537
#1	17.346	-.00150	-.00425	24.417	.00142
#2	17.355	-.00145	-.00434	24.508	.00102
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00105**	**5.937**	**-.00156**	**-.00733**
Stddev	-----	.00051	.000	.00119	.00369
%RSD	-----	48.466	.0044	76.315	50.309
#1	z 170.5	.00069	5.937	-.00239	-.00994
#2	z 171.2	.00141	5.937	-.00072	-.00472
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.420**	**-.00053**	**.18425**	**.0085**	**-.00007**
Stddev	.065	.00032	.00061	.0168	.00005
%RSD	.62772	59.841	.33327	197.7	62.664
#1	10.374	-.00031	.18381	.0204	-.00011
#2	10.466	-.00076	.18468	-.0034	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-8-A Acquired: 8/16/2021 17:01:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00103**	**-.00002**	**.00920**	**.0002**
Stddev	.00009	.00034	.00019	.0006
%RSD	8.6363	1596.8	2.0884	246.6
#1	.00097	-.00026	.00907	.0007
#2	.00110	.00022	.00934	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3481.0**	**2794.6**	**58464.**	**2718.3**
Stddev	1.7	1.0	124.	6.8
%RSD	.04847	.03413	.21153	.25156
#1	3482.1	2795.3	58551.	2723.2
#2	3479.8	2794.0	58376.	2713.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.655%	97.501%	96.755%	100.38%
Range				

Sample Name: 480-188244-C-9-A Acquired: 8/16/2021 17:04:55 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00033**	**.07261**	**.00005**	**.00620**	**.02843**
Stddev	.00025	.00339	.00198	.00006	.00032
%RSD	75.277	4.6657	4383.5	.96689	1.1328
#1	.00050	.07500	-.00135	.00625	.02866
#2	.00015	.07021	.00144	.00616	.02821
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**5.6507**	**-.00004**	**.0032**	**-.00006**
Stddev	.00001	.0261	.00001	.0298	.00012
%RSD	31.761	.46128	13.336	929.3	200.92
#1	.00005	5.6323	-.00004	-.0178	.00002
#2	.00003	5.6692	-.00004	.0243	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**.00058**	**.04003**	**1.6589**	**.01044**
Stddev	.00006	.00005	.00320	.0367	.00130
%RSD	10.700	8.7159	7.9827	2.2101	12.427
#1	.00064	.00054	.03777	1.6330	.00952
#2	.00055	.00061	.04229	1.6848	.01135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-9-A Acquired: 8/16/2021 17:04:55 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.0556**	**-.00159**	**-.00438**	**9.7722**	**.00040**
Stddev	.0984	.00002	.00003	.0685	.00012
%RSD	1.2209	1.2384	.65337	.70104	30.355
#1	8.1251	-.00157	-.00436	9.7238	.00032
#2	7.9860	-.00160	-.00440	9.8207	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00081**	**1.110**	**.00008**	**-.00734**
Stddev	-----	.00051	.004	.00108	.00006
%RSD	-----	62.420	.3285	1304.7	.83999
#1	z 181.9	.00117	1.107	.00085	-.00739
#2	z 182.6	.00045	1.112	-.00068	-.00730
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.739**	**-.00060**	**.04730**	**.0080**	**.00116**
Stddev	.082	.00029	.00021	.0047	.00023
%RSD	.59562	47.549	.45260	58.85	19.856
#1	13.681	-.00040	.04715	.0047	.00133
#2	13.797	-.00080	.04745	.0113	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188244-C-9-A Acquired: 8/16/2021 17:04:55 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00000**	**.00282**	**.0012**
Stddev	.00021	.00034	.00014	.0006
%RSD	84.806	50865.	4.9119	51.57
#1	.00010	.00024	.00272	.0008
#2	.00040	-.00024	.00291	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3626.9**	**2853.6**	**59656.**	**2731.7**
Stddev	3.1	2.1	565.	26.5
%RSD	.08457	.07345	.94782	.97056
#1	3624.7	2852.1	59256.	2750.4
#2	3629.1	2855.1	60056.	2712.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.539%	99.557%	98.728%	100.87%
Range				

Sample Name: 480-188250-B-2-A Acquired: 8/16/2021 17:08:47 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.02209**	**-.00053**	**.27480**	**.12589**
Stddev	.00026	.02618	.00072	.00065	.00019
%RSD	180.88	118.50	136.85	.23787	.15244
#1	-.00033	.04060	-.00002	.27434	.12603
#2	.00004	.00358	-.00103	.27526	.12576
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**68.572**	**.00012**	**-.0089**	**.00001**
Stddev	.00005	.230	.00012	.0158	.00010
%RSD	175.45	.33527	96.938	177.0	913.61
#1	.00001	68.735	.00004	.0023	-.00006
#2	-.00007	68.410	.00021	-.0201	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00244**	**.04201**	**5.7253**	**-.00041**
Stddev	.00007	.00004	.00104	.0146	.00126
%RSD	13.506	1.4379	2.4765	.25517	309.26
#1	.00053	.00246	.04274	5.7357	-.00130
#2	.00044	.00241	.04127	5.7150	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188250-B-2-A Acquired: 8/16/2021 17:08:47 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.307**	**.07489**	**-.00196**	**8.1189**	**.00017**
Stddev	.027	.00011	.00011	.0102	.00000
%RSD	.14552	.14985	5.8651	.12595	2.4569
#1	18.326	.07497	-.00204	8.1261	.00017
#2	18.288	.07481	-.00188	8.1117	.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00051**	**6.296**	**-.00171**	**-.00669**
Stddev	-----	.00060	.010	.00092	.00066
%RSD	-----	116.45	.1608	53.633	9.9417
#1	z 185.3	.00009	6.289	-.00236	-.00622
#2	z 184.6	.00093	6.303	-.00106	-.00716
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.7477**	**-.00108**	**.17237**	**-.0004**	**.00060**
Stddev	.0032	.00046	.00025	.0014	.00018
%RSD	.03289	42.876	.14658	319.7	30.042
#1	9.7454	-.00141	.17219	-.0014	.00047
#2	9.7500	-.00075	.17255	.0006	.00073
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188250-B-2-A Acquired: 8/16/2021 17:08:47 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00215**	**.00882**	**-.0005**
Stddev	.00037	.00036	.00035	.0007
%RSD	39.005	16.671	4.0031	158.8
#1	.00121	.00190	.00857	.0001
#2	.00069	.00240	.00907	-.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3464.2**	**2795.4**	**58624.**	**2756.4**
Stddev	8.0	2.5	33.	1.1
%RSD	.23224	.09078	.05629	.04171
#1	3469.9	2797.2	58648.	2757.2
#2	3458.5	2793.6	58601.	2755.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.209%	97.527%	97.021%	101.79%
Range				

Sample Name: 480-188250-B-6-A Acquired: 8/16/2021 17:12:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.00837**	**-.00208**	**.09998**	**.03622**
Stddev	.00013	.00640	.00043	.00031	.00004
%RSD	28.072	76.531	20.556	.31114	.09964
#1	.00038	.00384	-.00177	.09976	.03625
#2	.00058	.01289	-.00238	.10020	.03620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**35.837**	**.00004**	**-.0082**	**-.00006**
Stddev	.00002	.106	.00001	.0241	.00009
%RSD	27.730	.29570	18.694	295.5	165.28
#1	.00005	35.912	.00005	-.0252	.00001
#2	.00007	35.762	.00004	.0089	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00228**	**.05491**	**2.7968**	**-.00207**
Stddev	.00001	.00034	.00366	.0079	.00015
%RSD	1.9291	14.784	6.6628	.28350	7.2542
#1	.00050	.00251	.05749	2.8024	-.00197
#2	.00048	.00204	.05232	2.7912	-.00218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188250-B-6-A Acquired: 8/16/2021 17:12:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.449**	**.00024**	**-.00320**	**7.1136**	**.00032**
Stddev	.047	.00003	.00006	.0153	.00004
%RSD	.34970	13.811	1.7702	.21531	12.193
#1	13.482	.00022	-.00316	7.1245	.00035
#2	13.415	.00026	-.00324	7.1028	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00063**	**20.60**	**-.00005**	**-.00506**
Stddev	-----	.00120	.02	.00108	.00257
%RSD	-----	189.52	.0912	2265.1	50.756
#1	z 196.1	.00148	20.58	-.00081	-.00688
#2	z 195.5	-.00022	20.61	.00071	-.00324
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.1254**	**-.00009**	**.09644**	**-.0083**	**-.00007**
Stddev	.0191	.00089	.00022	.0074	.00017
%RSD	.26754	980.65	.22657	88.69	240.78
#1	7.1389	.00054	.09659	-.0031	-.00019
#2	7.1119	-.00072	.09628	-.0135	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188250-B-6-A Acquired: 8/16/2021 17:12:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00112**	**.00081**	**.00252**	**.0012**
Stddev	.00005	.00005	.00061	.0004
%RSD	4.3825	5.9740	24.037	32.98
#1	.00115	.00077	.00295	.0015
#2	.00108	.00084	.00210	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3539.2**	**2815.4**	**59194.**	**2742.2**
Stddev	1.5	1.3	69.	14.9
%RSD	.04350	.04631	.11588	.54322
#1	3540.3	2816.4	59146.	2731.6
#2	3538.1	2814.5	59243.	2752.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.205%	98.226%	97.964%	101.26%
Range				

Sample Name: 480-188220-A-1-A@5 Acquired: 8/16/2021 17:16:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00029**	**.07444**	**-.00156**	**.05408**	**.00512**
Stddev	.00051	.00744	.00052	.00009	.00000
%RSD	177.51	9.9927	33.484	.17441	.02436
#1	-.00064	.07970	-.00119	.05414	.00512
#2	.00007	.06918	-.00193	.05401	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**145.83**	**.00004**	**.0229**	**-.00020**
Stddev	.00003	.23	.00014	.0363	.00010
%RSD	822.15	.15888	326.16	158.3	52.051
#1	.00002	145.99	-.00006	-.0027	-.00013
#2	-.00003	145.66	.00014	.0486	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.00074**	**.02198**	**291.19**	**.12784**
Stddev	.00023	.00033	.00312	3.94	.00001
%RSD	182.26	44.338	14.215	1.3538	.00685
#1	.00004	.00097	.02419	293.97	.12784
#2	-.00028	.00051	.01977	288.40	.12785
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188220-A-1-A@5 Acquired: 8/16/2021 17:16:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.10580**	**-.00240**	**-.00378**	**264.36**	**-.00006**
Stddev	.00079	.00009	.00047	.17	.00007
%RSD	.74659	3.8553	12.492	.06495	114.94
#1	.10524	-.00247	-.00411	264.48	-.00001
#2	.10635	-.00234	-.00344	264.24	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00087**	F **557.1**	**-.00018**	**-.01199**
Stddev	-----	.00070	.6	.00129	.00049
%RSD	-----	81.037	.0991	696.45	4.1164
#1	z 266.0	.00136	556.7	.00073	-.01234
#2	z 265.8	.00037	557.5	-.00110	-.01164
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00574**	**1.4292**	**2.6814**	**-.0034**	**.00052**
Stddev	.00511	.0030	.0046	.0053	.00032
%RSD	88.967	.20961	.17029	154.6	62.062
#1	.00213	1.4271	2.6847	.0003	.00074
#2	.00935	1.4314	2.6782	-.0072	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188220-A-1-A@5 Acquired: 8/16/2021 17:16:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00093**	**.00001**	**.00238**	**.0027**
Stddev	.00157	.00014	.00008	.0001
%RSD	169.56	1118.6	3.4064	4.373
#1	.00204	.00011	.00232	.0028
#2	-.00018	-.00008	.00243	.0026
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2964.8**	**2564.8**	**51992.**	**2635.2**
Stddev	7.0	6.3	70.	5.7
%RSD	.23660	.24576	.13559	.21581
#1	2969.8	2569.3	52042.	2631.1
#2	2959.8	2560.4	51942.	2639.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.916%	89.482%	86.045%	97.310%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 17:20:25 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94375**	**47.870**	**.96319**	**.98797**	**.97690**	**.97403**	**48.358**	**.97888**
Stddev	.00108	.048	.00123	.00027	.00084	.00058	.062	.00154
%RSD	.11470	.09943	.12750	.02744	.08567	.05926	.12830	.15739
#1	.94298	47.836	.96232	.98817	.97631	.97362	48.314	.97997
#2	.94451	47.903	.96406	.98778	.97749	.97443	48.402	.97779
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9391**	**.97411**	**.96795**	**.94338**	**48.319**	**47.973**	**.94434**	**47.289**
Stddev	.0181	.00217	.00395	.00199	.168	.040	.00024	.174
%RSD	1.930	.22240	.40851	.21047	.34773	.08301	.02568	.36810
#1	.9263	.97564	.96516	.94198	48.201	47.945	.94417	47.166
#2	.9520	.97258	.97075	.94478	48.438	48.001	.94452	47.412
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.96561**	**.98994**	**48.600**	**.97021**	z *****	**.97690**	**24.46**	**.95797**
Stddev	.00276	.00304	.060	.00083	-----	.00100	.07	.00297
%RSD	.28543	.30753	.12316	.08584	-----	.10189	.2771	.31026
#1	.96366	.98779	48.558	.97079	z 9169.	.97761	24.50	.95587
#2	.96756	.99210	48.642	.96962	z 9112.	.97620	24.41	.96007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 17:20:25 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.95268	9.3048	.97643	.96142	.9463	.97216	.97932	.97551
Stddev	.00389	.0781	.00295	.00031	.0236	.00018	.00205	.00095
%RSD	.40854	.83901	.30260	.03234	2.498	.01810	.20979	.09773
#1	.95543	9.2496	.97851	.96120	.9296	.97204	.98077	.97484
#2	.94992	9.3600	.97434	.96164	.9630	.97229	.97787	.97619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0028	.9267
Stddev	.0059	.0018
%RSD	.58888	.1927
#1	.99861	.9254
#2	1.0070	.9280
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3228.2	2775.0	56622.	2665.8
Stddev	6.2	6.4	116.	1.6
%RSD	.19299	.23056	.20573	.06029
#1	3232.6	2779.5	56704.	2667.0
#2	3223.8	2770.5	56539.	2664.7

Sample Name: CCB-6615058 Acquired: 8/16/2021 17:24:06 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**.01289**	**.00155**	**-.00085**	**.00006**	**-.00001**	**.00217**	**-.00006**
Stddev	.00014	.01824	.00109	.00050	.00000	.00008	.00200	.00015
%RSD	31.151	141.46	70.483	58.870	2.9182	1361.4	91.842	257.91
#1	.00055	-.00000	.00232	-.00049	.00006	.00005	.00358	-.00016
#2	.00035	.02579	.00078	-.00120	.00005	-.00006	.00076	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0249**	**.00008**	**-.00001**	**-.00025**	**-.00097**	**-.03909**	**-.00219**	**-.00141**
Stddev	.0013	.00010	.00015	.00011	.00042	.03050	.00045	.00079
%RSD	5.242	115.74	1680.8	46.421	43.026	78.018	20.636	55.841
#1	-.0259	.00002	.00009	-.00017	-.00068	-.01753	-.00252	-.00085
#2	-.0240	.00015	-.00011	-.00033	-.00127	-.06066	-.00187	-.00197
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00004**	**.00392**	**-.00039**	**.00003**	z *****	**-.00039**	**.0039**	**.00006**
Stddev	.00004	.00146	.00160	.00007	-----	.00107	.0057	.00080
%RSD	109.03	37.255	412.13	211.58	-----	271.94	144.1	1311.6
#1	-.00007	.00496	-.00152	-.00002	z 139.8	.00036	.0079	.00062
#2	-.00001	.00289	.00075	.00009	z 140.2	-.00115	-.0001	-.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 17:24:06 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00060	-.01309	-.00029	.00004	-.0042	.00030	.00019	.00001
Stddev	.00022	.00825	.00025	.00006	.0082	.00022	.00137	.00011
%RSD	36.699	63.030	85.454	135.78	197.0	73.803	711.27	1010.7
#1	-.00076	-.01892	-.00046	.00000	.0016	.00014	-.00078	.00009
#2	-.00045	-.00726	-.00011	.00008	-.0100	.00046	.00116	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00053	-.0011
Stddev	.00050	.0007
%RSD	94.960	61.10
#1	.00089	-.0016
#2	.00017	-.0006
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3762.6	2883.3	60357.	2685.5
Stddev	2.1	3.9	179.	6.6
%RSD	.05547	.13588	.29638	.24482
#1	3761.1	2880.5	60483.	2690.1
#2	3764.0	2886.1	60231.	2680.8

Sample Name: CCVL-6615375 Acquired: 8/16/2021 17:28:01 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00580**	**.19156**	**.01328**	**.01751**	**.00211**	**.00209**	**.49348**	**.00189**
Stddev	.00006	.03966	.00013	.00017	.00000	.00001	.00172	.00004
%RSD	.98980	20.706	.99534	.98786	.08211	.48926	.34836	2.2732
#1	.00584	.16351	.01338	.01739	.00211	.00209	.49226	.00192
#2	.00576	.21960	.01319	.01763	.00211	.00208	.49469	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0355**	**.00379**	**.00371**	**.00882**	**.04922**	**.44289**	**.02565**	**.18806**
Stddev	.0187	.00003	.00022	.00000	.00337	.00404	.00105	.00170
%RSD	52.64	.83066	6.0117	.03705	6.8401	.91139	4.1090	.90622
#1	.0223	.00377	.00386	.00882	.04684	.44003	.02639	.18686
#2	.0488	.00381	.00355	.00883	.05160	.44574	.02490	.18927
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00299**	**.00780**	**.98801**	**.00931**	z *****	**.00828**	**.1860**	**.01970**
Stddev	.00009	.00017	.00303	.00021	-----	.00066	.0029	.00014
%RSD	3.1090	2.1840	.30717	2.2538	-----	8.0225	1.568	.73158
#1	.00293	.00792	.99016	.00946	z 139.3	.00781	.1881	.01960
#2	.00306	.00768	.98587	.00916	z 138.8	.00875	.1840	.01980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 17:28:01 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01971**	**.42463**	**.00843**	**.00482**	**.0029**	**.00468**	**.01959**	**.00470**
Stddev	.00169	.01186	.00008	.00002	.0060	.00011	.00051	.00042
%RSD	8.5680	2.7923	.96973	.46874	203.6	2.4252	2.5923	8.8376
#1	.01851	.43301	.00849	.00483	-.0013	.00460	.01923	.00441
#2	.02090	.41624	.00838	.00480	.0071	.00476	.01995	.00499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00946**	**.0015**
Stddev	.00017	.0005
%RSD	1.8003	31.58
#1	.00934	.0019
#2	.00958	.0012
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3756.0**	**2890.5**	**60704.**	**2722.4**
Stddev	3.2	1.7	2.	13.1
%RSD	.08469	.05788	.00334	.47939
#1	3753.8	2891.7	60703.	2713.2
#2	3758.3	2889.3	60706.	2731.6

Sample Name: 188220-A-1-ASD@25 Acquired: 8/16/2021 17:31:55 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.01362**	**-.00232**	**.00882**	**.00100**
Stddev	.00002	.00185	.00129	.00012	.00000
%RSD	26.402	13.559	55.365	1.4041	.12414
#1	.00005	.01492	-.00141	.00891	.00100
#2	.00007	.01231	-.00323	.00874	.00101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**25.893**	**-.00005**	**-.0067**	**-.00008**
Stddev	.00006	.029	.00002	.0132	.00003
%RSD	553.75	.11152	32.691	195.9	41.481
#1	.00003	25.913	-.00004	.0026	-.00010
#2	-.00006	25.873	-.00006	-.0160	-.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**-.00011**	**.00346**	**57.146**	**.02084**
Stddev	.00046	.00005	.00389	.097	.00015
%RSD	578.72	41.536	112.47	.17044	.73507
#1	.00024	-.00014	.00071	57.077	.02095
#2	-.00040	-.00008	.00622	57.215	.02073
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 188220-A-1-ASD@25 Acquired: 8/16/2021 17:31:55 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01872**	F **-.00380**	**-.00344**	**47.666**	**-.00018**
Stddev	.00000	.00005	.00012	.134	.00008
%RSD	.01001	1.4197	3.3448	.28158	43.550
#1	.01872	-.00384	-.00336	47.571	-.00012
#2	.01872	-.00376	-.00352	47.761	-.00023
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00085**	F **98.33**	**.00086**	**-.00894**
Stddev	-----	.00033	.06	.00193	.00545
%RSD	-----	39.093	.0582	224.76	60.890
#1	z 163.8	.00061	98.37	.00223	-.00509
#2	z 163.8	.00108	98.29	-.00051	-.01279
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00678**	**.24365**	**.47759**	**-.0176**	**-.00014**
Stddev	.00034	.00042	.00085	.0152	.00005
%RSD	5.0478	.17072	.17788	86.45	35.561
#1	-.00654	.24394	.47699	-.0283	-.00018
#2	-.00702	.24336	.47819	-.0068	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 188220-A-1-ASD@25 Acquired: 8/16/2021 17:31:55 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00007**	**.00039**	**.0012**
Stddev	.00067	.00003	.00006	.0005
%RSD	349.96	53.623	14.966	44.32
#1	-.00028	-.00004	.00043	.0016
#2	.00067	-.00009	.00035	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3381.2**	**2746.2**	**57324.**	**2738.2**
Stddev	1.9	2.6	11.	2.7
%RSD	.05624	.09571	.01980	.09731
#1	3379.9	2744.3	57332.	2740.1
#2	3382.5	2748.0	57316.	2736.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.000%	95.810%	94.869%	101.11%
Range				

Sample Name: 188220-A-1-APDS@5 Acquired: 8/16/2021 17:35:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04818**	**9.4491**	**.21041**	**.24456**	**.20648**
Stddev	.00053	.0677	.00069	.00047	.00067
%RSD	1.0928	.71616	.32722	.19058	.32378
#1	.04856	9.4012	.21089	.24423	.20695
#2	.04781	9.4969	.20992	.24489	.20601
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19957**	**148.78**	**.20508**	**.0268**	**.19662**
Stddev	.00029	.49	.00062	.0194	.00025
%RSD	.14610	.32790	.30188	72.41	.12918
#1	.19978	149.13	.20552	.0405	.19644
#2	.19937	148.44	.20465	.0131	.19680
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19312**	**.19194**	**9.2146**	**283.68**	**.31134**
Stddev	.00107	.00131	.0042	3.23	.00094
%RSD	.55156	.67996	.04500	1.1378	.30124
#1	.19387	.19287	9.2175	285.96	.31068
#2	.19236	.19102	9.2117	281.40	.31201
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 188220-A-1-APDS@5 Acquired: 8/16/2021 17:35:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0801**	**.19241**	**.20433**	**262.60**	**.19648**
Stddev	.0343	.00101	.00019	.53	.00013
%RSD	.37791	.52404	.09433	.20062	.06657
#1	9.1044	.19312	.20419	262.97	.19657
#2	9.0559	.19170	.20446	262.23	.19639
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19788**	F **542.2**	**.20849**	**.20097**
Stddev	-----	.00115	.6	.00073	.00183
%RSD	-----	.57996	.1112	.35153	.91267
#1	z 276.4	.19869	542.6	.20901	.20227
#2	z 276.8	.19707	541.7	.20798	.19967
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.9238**	**1.5499**	**2.7650**	**.0230**	**.19856**
Stddev	.0180	.0006	.0018	.0067	.00063
%RSD	.20211	.03983	.06537	29.25	.31846
#1	8.9366	1.5494	2.7637	.0278	.19811
#2	8.9111	1.5503	2.7662	.0183	.19900
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 188220-A-1-APDS@5 Acquired: 8/16/2021 17:35:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19375**	**.19753**	**.20174**	**.0431**
Stddev	.00054	.00008	.00037	.0018
%RSD	.28049	.04233	.18517	4.075
#1	.19413	.19759	.20147	.0443
#2	.19336	.19747	.20200	.0418
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2963.2**	**2562.5**	**52474.**	**2644.7**
Stddev	.8	.9	137.	2.6
%RSD	.02601	.03414	.26110	.09854
#1	2963.8	2561.9	52377.	2642.8
#2	2962.7	2563.1	52571.	2646.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	78.874%	89.401%	86.843%	97.661%
Range				

Sample Name: 188220-A-1-B MS@5 Acquired: 8/16/2021 17:39:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01022**	**2.0337**	**.04486**	**.09106**	**.04668**
Stddev	.00046	.0197	.00459	.00052	.00004
%RSD	4.5456	.96824	10.236	.56819	.07766
#1	.01055	2.0197	.04811	.09142	.04670
#2	.00989	2.0476	.04162	.09069	.04665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04098**	**145.87**	**.04247**	**.0437**	**.04056**
Stddev	.00019	.32	.00009	.0113	.00002
%RSD	.46998	.21822	.20546	25.80	.03958
#1	.04084	146.09	.04253	.0517	.04058
#2	.04111	145.64	.04240	.0358	.04055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03956**	**.03963**	**1.9319**	**280.16**	**.16677**
Stddev	.00049	.00017	.0105	2.99	.00033
%RSD	1.2371	.43035	.54386	1.0678	.19778
#1	.03921	.03975	1.9245	282.28	.16654
#2	.03991	.03950	1.9394	278.05	.16700
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 188220-A-1-B MS@5 Acquired: 8/16/2021 17:39:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9303**	**.03764**	**.04056**	**263.74**	**.04057**
Stddev	.0065	.00008	.00022	.26	.00001
%RSD	.33800	.22381	.55180	.09822	.02329
#1	1.9257	.03758	.04071	263.92	.04057
#2	1.9349	.03770	.04040	263.56	.04056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.03963**	F **550.3**	**.04471**	**.03609**
Stddev	-----	.00068	.3	.00184	.00538
%RSD	-----	1.7141	.0526	4.1152	14.917
#1	z 267.2	.03915	550.5	.04601	.03228
#2	z 267.5	.04011	550.1	.04341	.03990
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8431**	**1.4338**	**2.6899**	**-.0066**	**.04134**
Stddev	.0073	.0030	.0033	.0097	.00009
%RSD	.39503	.21187	.12379	147.9	.22693
#1	1.8380	1.4360	2.6922	-.0134	.04128
#2	1.8483	1.4317	2.6875	.0003	.04141
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 188220-A-1-B MS@5 Acquired: 8/16/2021 17:39:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.04069**	**.04101**	**.04209**	**.0036**
Stddev	.00024	.00052	.00086	.0014
%RSD	.58097	1.2648	2.0534	37.96
#1	.04086	.04137	.04148	.0046
#2	.04052	.04064	.04271	.0027
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2974.2**	**2561.4**	**52510.**	**2643.1**
Stddev	2.6	2.5	53.	3.1
%RSD	.08663	.09736	.10089	.11591
#1	2972.4	2559.6	52473.	2641.0
#2	2976.0	2563.1	52548.	2645.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.166%	89.361%	86.902%	97.606%
Range				

Sample Name: 188220-A-1-C MSD@5 Acquired: 8/16/2021 17:43:22 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01023**	**2.0244**	**.04173**	**.09089**	**.04635**
Stddev	.00045	.0247	.00045	.00004	.00003
%RSD	4.3888	1.2218	1.0767	.04854	.05924
#1	.00991	2.0069	.04204	.09093	.04637
#2	.01055	2.0419	.04141	.09086	.04633
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04075**	**146.84**	**.04225**	**.0125**	**.04031**
Stddev	.00008	.33	.00008	.0020	.00002
%RSD	.19846	.22640	.18746	15.93	.04622
#1	.04081	146.61	.04231	.0139	.04033
#2	.04069	147.08	.04220	.0111	.04030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04026**	**.03997**	**1.9444**	**278.36**	**.16817**
Stddev	.00031	.00016	.0029	2.64	.00046
%RSD	.77101	.38789	.14711	.94934	.27294
#1	.04048	.04008	1.9464	280.23	.16784
#2	.04004	.03986	1.9424	276.49	.16849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 188220-A-1-C MSD@5 Acquired: 8/16/2021 17:43:22 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.9439**	**.03779**	**.03951**	**265.02**	**.04033**
Stddev	.0044	.00004	.00012	.22	.00002
%RSD	.22467	.11737	.30179	.08317	.05063
#1	1.9408	.03776	.03959	264.86	.04031
#2	1.9470	.03782	.03942	265.18	.04034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.04105**	F **551.8**	**.04202**	**.03248**
Stddev	-----	.00011	.8	.00142	.00048
%RSD	-----	.27681	.1393	3.3895	1.4787
#1	z 268.4	.04113	552.4	.04303	.03215
#2	z 268.3	.04096	551.3	.04101	.03282
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8929**	**1.4347**	**2.7068**	**.0119**	**.04125**
Stddev	.0142	.0022	.0063	.0106	.00038
%RSD	.75230	.15311	.23368	88.50	.91206
#1	1.8828	1.4331	2.7023	.0194	.04098
#2	1.9030	1.4362	2.7113	.0045	.04151
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 188220-A-1-C MSD@5 Acquired: 8/16/2021 17:43:22 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.03900**	**.04094**	**.04478**	**.0036**
Stddev	.00093	.00004	.00018	.0010
%RSD	2.3819	.08792	.40994	27.58
#1	.03834	.04096	.04465	.0029
#2	.03966	.04091	.04491	.0043
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2979.9**	**2561.9**	**52471.**	**2628.8**
Stddev	2.1	4.4	72.	3.1
%RSD	.07030	.17308	.13655	.11868
#1	2978.4	2558.8	52420.	2631.0
#2	2981.4	2565.0	52522.	2626.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	79.317%	89.380%	86.837%	97.076%
Range				

Sample Name: 480-188246-E-1-A@5 Acquired: 8/16/2021 17:47:15 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00051**	**.01424**	**.01200**	**4.1299**	**.13872**
Stddev	.00040	.00135	.00081	.0041	.00026
%RSD	79.897	9.4804	6.7854	.09990	.18766
#1	.00079	.01328	.01257	4.1329	.13854
#2	.00022	.01519	.01142	4.1270	.13890
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**22.487**	**.00001**	**-.0043**	**.00058**
Stddev	.00006	.134	.00002	.0302	.00013
%RSD	351.20	.59571	334.73	708.5	22.679
#1	.00006	22.392	.00002	.0171	.00067
#2	-.00002	22.582	-.00001	-.0256	.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06143**	**-.00033**	**.11738**	**23.147**	**.15540**
Stddev	.00024	.00012	.00101	.134	.00019
%RSD	.38830	37.713	.85917	.57825	.12161
#1	.06127	-.00042	.11667	23.053	.15553
#2	.06160	-.00024	.11810	23.242	.15526
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188246-E-1-A@5 Acquired: 8/16/2021 17:47:15 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.405**	**.13862**	**-.00276**	**272.47**	**.01867**
Stddev	.070	.00009	.00019	.92	.00026
%RSD	.25671	.06215	6.8106	.33897	1.3948
#1	27.356	.13869	-.00289	271.82	.01886
#2	27.455	.13856	-.00263	273.12	.01849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00032**	**5.869**	**-.00053**	**-.00780**
Stddev	-----	.00122	.012	.00085	.00305
%RSD	-----	379.92	.2054	160.18	39.140
#1	z 435.2	-.00054	5.877	-.00113	-.00564
#2	z 435.8	.00118	5.860	.00007	-.00996
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.5877**	**.00117**	**.16500**	**.0035**	**.01701**
Stddev	.0117	.00020	.00045	.0000	.00012
%RSD	.32514	17.040	.27470	.1019	.70943
#1	3.5959	.00103	.16468	.0035	.01692
#2	3.5794	.00131	.16532	.0035	.01709
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188246-E-1-A@5 Acquired: 8/16/2021 17:47:15 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00048**	**.01287**	**.00296**	**.0238**
Stddev	.00038	.00013	.00029	.0007
%RSD	78.483	1.0449	9.7270	3.146
#1	-.00021	.01278	.00316	.0243
#2	-.00074	.01297	.00275	.0233
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3171.5**	**2681.5**	**55179.**	**2681.6**
Stddev	1.1	2.5	181.	13.9
%RSD	.03573	.09173	.32806	.51915
#1	3170.7	2679.8	55307.	2691.4
#2	3172.3	2683.2	55051.	2671.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.418%	93.553%	91.319%	99.024%
Range				

Sample Name: 480-188246-E-2-A@10 Acquired: 8/16/2021 17:51:09 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00048**	**.02538**	**.01883**	**6.2929**	**.07971**
Stddev	.00002	.00794	.00019	.0029	.00035
%RSD	4.2062	31.271	1.0049	.04577	.43821
#1	.00050	.01977	.01896	6.2949	.07996
#2	.00047	.03100	.01869	6.2908	.07946
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**8.8047**	**.00017**	**-.0292**	**.00097**
Stddev	.00004	.0241	.00000	.0051	.00010
%RSD	55.667	.27382	2.7340	17.37	10.574
#1	.00004	8.7876	.00017	-.0256	.00104
#2	.00010	8.8217	.00016	-.0328	.00090
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02006**	**.00138**	**.37317**	**52.227**	**.00902**
Stddev	.00028	.00005	.00046	.086	.00057
%RSD	1.4200	3.4439	.12364	.16516	6.2867
#1	.02026	.00142	.37285	52.288	.00862
#2	.01986	.00135	.37350	52.166	.00942
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188246-E-2-A@10 Acquired: 8/16/2021 17:51:09 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.698**	**.07462**	**.00348**	**375.53**	**.01730**
Stddev	.020	.00004	.00008	.18	.00013
%RSD	.15476	.05609	2.1870	.04876	.75164
#1	12.684	.07459	.00343	375.40	.01739
#2	12.712	.07465	.00354	375.66	.01721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00023**	**14.83**	**.00252**	**-.00890**
Stddev	-----	.00001	.01	.00026	.00160
%RSD	-----	3.2982	.0588	10.361	17.936
#1	z 735.0	.00024	14.82	.00234	-.01003
#2	z 737.1	.00023	14.83	.00271	-.00777
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6752**	**.00433**	**.07732**	**.0053**	**.01845**
Stddev	.0144	.00039	.00031	.0046	.00005
%RSD	.85801	9.0806	.39807	85.72	.24446
#1	1.6650	.00406	.07710	.0021	.01849
#2	1.6853	.00461	.07754	.0086	.01842
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188246-E-2-A@10 Acquired: 8/16/2021 17:51:09 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00146**	**.01691**	**.00392**	**.0592**
Stddev	.00052	.00035	.00045	.0003
%RSD	35.749	2.0554	11.549	.5067
#1	.00183	.01716	.00360	.0594
#2	.00109	.01666	.00424	.0590
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3130.6**	**2671.8**	**54112.**	**2662.5**
Stddev	7.3	5.6	130.	4.7
%RSD	.23269	.21060	.24019	.17704
#1	3125.5	2667.8	54204.	2665.8
#2	3135.8	2675.7	54020.	2659.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	83.330%	93.213%	89.553%	98.319%
Range				

Sample Name: 480-188246-E-3-A@5 Acquired: 8/16/2021 17:55:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00008**	**.00069**	**.00846**	**5.0704**	**.33213**
Stddev	.00001	.00919	.00100	.0029	.00051
%RSD	14.391	1326.4	11.880	.05800	.15286
#1	-.00009	-.00581	.00775	5.0725	.33178
#2	-.00007	.00719	.00917	5.0684	.33249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**58.502**	**.00010**	**.0284**	**.00048**
Stddev	.00010	.179	.00001	.0175	.00010
%RSD	195.25	.30579	7.6519	61.65	20.591
#1	-.00013	58.376	.00011	.0160	.00041
#2	.00002	58.629	.00010	.0408	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01328**	**.00170**	**.96219**	**19.194**	**.00442**
Stddev	.00018	.00052	.00407	.020	.00008
%RSD	1.3282	30.518	.42278	.10604	1.8753
#1	.01341	.00206	.96507	19.179	.00448
#2	.01316	.00133	.95931	19.208	.00436
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188246-E-3-A@5 Acquired: 8/16/2021 17:55:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**40.688**	**.22581**	**-.00399**	**130.54**	**.00298**
Stddev	.044	.00009	.00015	.20	.00013
%RSD	.10766	.04003	3.7998	.15480	4.2966
#1	40.719	.22587	-.00410	130.40	.00307
#2	40.657	.22574	-.00389	130.69	.00289
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00072**	**8.794**	**-.00167**	**-.01166**
Stddev	-----	.00087	.008	.00004	.00296
%RSD	-----	121.44	.0943	2.4322	25.391
#1	z 261.0	.00133	8.788	-.00170	-.00956
#2	z 262.1	.00010	8.800	-.00165	-.01375
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3301**	**-.00131**	**.43694**	**.0138**	**.02108**
Stddev	.0024	.00085	.00119	.0043	.00011
%RSD	.04455	65.320	.27199	31.42	.53325
#1	5.3317	-.00070	.43610	.0107	.02100
#2	5.3284	-.00191	.43778	.0169	.02116
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188246-E-3-A@5 Acquired: 8/16/2021 17:55:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00028**	**.01179**	**.00300**	**.0097**
Stddev	.00106	.00010	.00005	.0010
%RSD	385.85	.81145	1.5774	10.65
#1	.00103	.01186	.00304	.0090
#2	-.00048	.01172	.00297	.0105
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3231.0**	**2695.3**	**55997.**	**2693.0**
Stddev	2.4	2.3	145.	6.3
%RSD	.07390	.08485	.25951	.23492
#1	3229.3	2693.7	56100.	2688.5
#2	3232.7	2697.0	55895.	2697.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.003%	94.036%	92.673%	99.446%
Range				

Sample Name: 480-188246-E-4-A@5 Acquired: 8/16/2021 17:58:59 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00037**	**.00473**	**.00717**	**.54467**	**.18730**
Stddev	.00079	.03098	.00194	.00104	.00028
%RSD	211.79	655.06	26.975	.19144	.15126
#1	.00019	-.01718	.00581	.54393	.18750
#2	-.00093	.02664	.00854	.54540	.18709
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**137.16**	**.00002**	**-.0056**	**.00018**
Stddev	.00000	.98	.00002	.0101	.00003
%RSD	17.071	.71309	79.112	180.8	14.059
#1	-.00003	136.46	.00001	-.0128	.00016
#2	-.00003	137.85	.00004	.0016	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00634**	**.00374**	**4.4486**	**91.000**	**.00842**
Stddev	.00003	.00018	.0498	.269	.00108
%RSD	.45137	4.7686	1.1184	.29577	12.774
#1	.00636	.00386	4.4134	90.809	.00766
#2	.00631	.00361	4.4837	91.190	.00918
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188246-E-4-A@5 Acquired: 8/16/2021 17:58:59 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.339**	**1.0307**	**-.00287**	**199.91**	**.00929**
Stddev	.002	.0010	.00007	1.45	.00009
%RSD	.01717	.09254	2.4977	.72732	.97766
#1	11.340	1.0314	-.00292	198.88	.00935
#2	11.338	1.0300	-.00282	200.93	.00923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00001**	**5.294**	**-.00066**	**-.01180**
Stddev	-----	.00057	.011	.00099	.00011
%RSD	-----	5770.8	.2136	149.85	.94133
#1	z 198.8	-.00039	5.302	.00004	-.01188
#2	z 199.6	.00041	5.286	-.00136	-.01173
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3114**	**-.00063**	**.91771**	**-.0046**	**.00069**
Stddev	.0136	.00045	.00508	.0002	.00000
%RSD	.58678	71.725	.55358	4.043	.35134
#1	2.3018	-.00031	.91412	-.0045	.00069
#2	2.3210	-.00095	.92130	-.0048	.00069
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188246-E-4-A@5 Acquired: 8/16/2021 17:58:59 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00015**	**.00732**	**.0013**
Stddev	.00040	.00027	.00004	.0005
%RSD	108.41	184.10	.58266	35.57
#1	.00009	.00034	.00735	.0010
#2	.00065	-.00004	.00729	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3106.6**	**2646.7**	**54574.**	**2653.2**
Stddev	8.1	5.3	57.	37.8
%RSD	.25946	.20045	.10407	1.4230
#1	3112.3	2650.5	54534.	2679.9
#2	3100.9	2643.0	54614.	2626.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	82.691%	92.340%	90.317%	97.976%
Range				

Sample Name: 480-188186-D-1-A@10 Acquired: 8/16/2021 18:02:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00122**	**.07187**	**.04185**	**3.9166**	**.07610**
Stddev	.00049	.03169	.00063	.0024	.00002
%RSD	40.297	44.100	1.5122	.06161	.01998
#1	.00157	.04946	.04140	3.9149	.07611
#2	.00087	.09428	.04230	3.9183	.07609
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**454.62**	**.00099**	**.0319**	**.00168**
Stddev	.00001	3.34	.00011	.0215	.00018
%RSD	2246.7	.73495	11.261	67.24	10.540
#1	-.00001	452.26	.00106	.0471	.00180
#2	.00001	456.98	.00091	.0167	.00155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2714	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	271.441 {124}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03778**	**.00160**	**146.20**	**166.47**	**.14020**
Stddev	.00022	.00002	1.03	.38	.00081
%RSD	.57600	1.3705	.70396	.23120	.58041
#1	.03763	.00158	145.47	166.75	.13962
#2	.03793	.00162	146.92	166.20	.14078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188186-D-1-A@10 Acquired: 8/16/2021 18:02:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**178.55**	**9.4473**	**-.00362**	**579.27**	**.01994**
Stddev	.73	.0055	.00014	1.69	.00001
%RSD	.40751	.05794	3.9161	.29233	.05685
#1	178.04	9.4512	-.00352	578.07	.01993
#2	179.07	9.4434	-.00372	580.46	.01994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.01165**	F **94.84**	**-.00314**	**-.00834**
Stddev	-----	.00021	.16	.00094	.00172
%RSD	-----	1.7863	.1730	29.910	20.677
#1	z 338.9	.01179	94.72	-.00248	-.00956
#2	z 340.0	.01150	94.95	-.00381	-.00712
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.4344**	**.00794**	**2.1766**	**.1049**	**.00213**
Stddev	.0388	.00006	.0058	.0050	.00033
%RSD	.52125	.79944	.26748	4.763	15.424
#1	7.4070	.00799	2.1725	.1085	.00236
#2	7.4618	.00790	2.1807	.1014	.00189
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188186-D-1-A@10 Acquired: 8/16/2021 18:02:48 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00242**	**.00445**	**1.2030**	**.0489**
Stddev	.00144	.00011	.0052	.0018
%RSD	59.767	2.4808	.43496	3.780
#1	-.00344	.00453	1.1993	.0502
#2	-.00139	.00437	1.2067	.0476
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2704.8**	**2379.6**	**49494.**	**2594.4**
Stddev	.3	4.0	20.	21.6
%RSD	.00973	.17015	.03996	.83424
#1	2705.0	2382.4	49508.	2609.7
#2	2704.6	2376.7	49480.	2579.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	71.996%	83.019%	81.911%	95.806%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 18:06:59 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.94451**	**48.107**	**.96763**	**.99383**	**.97509**	**.97528**	**48.581**	**.97632**
Stddev	.00208	.041	.00106	.00143	.00114	.00039	.017	.00056
%RSD	.22020	.08419	.10922	.14423	.11726	.04040	.03578	.05736
#1	.94599	48.079	.96688	.99282	.97428	.97500	48.594	.97592
#2	.94304	48.136	.96837	.99485	.97590	.97556	48.569	.97671
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9848**	**.96895**	**.96866**	**.94131**	**48.473**	**48.168**	**.94874**	**47.266**
Stddev	.0201	.00017	.00547	.00121	.132	.054	.00419	.198
%RSD	2.045	.01745	.56487	.12807	.27261	.11152	.44141	.41787
#1	.9990	.96907	.97252	.94216	48.566	48.130	.94578	47.406
#2	.9706	.96883	.96479	.94045	48.379	48.206	.95170	47.127
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.96094**	**.99511**	**48.631**	**.96776**	z *****	**.97416**	**24.48**	**.96667**
Stddev	.00242	.00653	.066	.00017	-----	.00018	.02	.00601
%RSD	.25150	.65578	.13639	.01729	-----	.01858	.0742	.62138
#1	.96265	.99050	48.584	.96788	z 9133.	.97403	24.46	.96242
#2	.95923	.99973	48.678	.96765	z 9115.	.97428	24.49	.97092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 18:06:59 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96618	9.8762	.97420	.96439	.9498	.97124	.98030	.97511
Stddev	.00552	.0440	.00025	.00014	.0051	.00117	.00174	.00229
%RSD	.57101	.44602	.02570	.01400	.5389	.12025	.17745	.23514
#1	.96227	9.8451	.97438	.96429	.9462	.97206	.98153	.97673
#2	.97008	9.9074	.97402	.96448	.9535	.97041	.97907	.97349
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99641	.9010
Stddev	.00055	.0046
%RSD	.05549	.5159
#1	.99680	.8977
#2	.99602	.9042
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3243.4	2774.7	56984.	2668.3
Stddev	5.7	9.1	124.	9.9
%RSD	.17599	.32626	.21819	.37281
#1	3247.4	2781.1	56896.	2675.3
#2	3239.3	2768.3	57071.	2661.2

Sample Name: CCB-6615058 Acquired: 8/16/2021 18:10:41 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00141**	**.00171**	**.00442**	**.00008**	**-.00004**	**.00832**	**-.00001**
Stddev	.00008	.00771	.00002	.00038	.00002	.00004	.00174	.00011
%RSD	29.885	546.95	1.4426	8.6437	19.335	96.733	20.933	2079.5
#1	.00021	-.00686	.00169	.00415	.00007	-.00001	.00709	.00007
#2	.00032	.00404	.00173	.00469	.00010	-.00007	.00955	-.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0075**	**.00007**	**.00013**	**-.00019**	**.00771**	**.01549**	**-.00195**	**.00131**
Stddev	.0123	.00001	.00004	.00018	.00546	.01578	.00080	.00025
%RSD	163.9	16.303	28.550	93.873	70.780	101.84	40.723	19.486
#1	.0162	.00006	.00011	-.00032	.00385	.02664	-.00252	.00113
#2	-.0012	.00008	.00016	-.00007	.01157	.00434	-.00139	.00149
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00003**	**.00400**	**.05645**	**-.00018**	z *****	**-.00034**	**.0128**	**-.00135**
Stddev	.00002	.00134	.00424	.00030	-----	.00008	.0027	.00047
%RSD	71.035	33.576	7.5054	169.06	-----	22.591	21.38	34.428
#1	-.00004	.00495	.05945	.00003	z 140.4	-.00028	.0108	-.00102
#2	-.00001	.00305	.05345	-.00039	z 139.3	-.00039	.0147	-.00168
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 18:10:41 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00064**	**.00878**	**-.00031**	**.00011**	**.0050**	**.00009**	**-.00003**	**-.00029**
Stddev	.00010	.00231	.00004	.00002	.0103	.00028	.00011	.00008
%RSD	16.116	26.308	13.107	13.612	206.3	330.44	332.89	29.166
#1	.00057	.00715	-.00034	.00010	.0122	.00028	-.00011	-.00023
#2	.00072	.01042	-.00028	.00012	-.0023	-.00011	.00004	-.00035
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00022**	**-.0003**
Stddev	.00026	.0000
%RSD	118.47	11.51
#1	.00040	-.0003
#2	.00004	-.0003
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3782.4**	**2880.9**	**61114.**	**2721.5**
Stddev	4.3	3.3	95.	10.6
%RSD	.11322	.11429	.15476	.39055
#1	3779.3	2878.6	61181.	2729.1
#2	3785.4	2883.2	61047.	2714.0

Sample Name: CCVL-6615375 Acquired: 8/16/2021 18:14:36 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00576**	**.18544**	**.01526**	**.02161**	**.00212**	**.00197**	**.49278**	**.00183**
Stddev	.00010	.01860	.00002	.00013	.00002	.00000	.00447	.00009
%RSD	1.7137	10.029	.11045	.59576	1.1560	.24330	.90732	5.1834
#1	.00569	.17229	.01524	.02170	.00210	.00197	.48962	.00189
#2	.00583	.19859	.01527	.02151	.00214	.00198	.49594	.00176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0085**	**.00375**	**.00368**	**.00905**	**.04684**	**.44061**	**.02403**	**.19008**
Stddev	.0307	.00006	.00018	.00054	.00351	.01866	.00095	.00022
%RSD	362.8	1.5477	4.9896	5.9128	7.4863	4.2355	3.9709	.11769
#1	.0301	.00371	.00381	.00867	.04436	.42741	.02471	.19024
#2	-.0132	.00379	.00355	.00943	.04932	.45380	.02336	.18992
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00303**	**.00772**	**1.0307**	**.00947**	z *****	**.00949**	**.1953**	**.01885**
Stddev	.00003	.00019	.0069	.00007	-----	.00022	.0008	.00182
%RSD	1.0343	2.4431	.66512	.71311	-----	2.3428	.4279	9.6371
#1	.00301	.00786	1.0259	.00952	z 138.8	.00965	.1959	.02013
#2	.00305	.00759	1.0356	.00942	z 139.7	.00933	.1947	.01756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 18:14:36 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01915	.44006	.00826	.00476	-.0080	.00465	.01969	.00493
Stddev	.00164	.00235	.00007	.00008	.0059	.00027	.00088	.00029
%RSD	8.5373	.53442	.82097	1.6277	72.90	5.8590	4.4564	5.9743
#1	.01800	.43839	.00831	.00471	-.0039	.00446	.02031	.00472
#2	.02031	.44172	.00821	.00482	-.0122	.00484	.01907	.00514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00964	.0014
Stddev	.00030	.0004
%RSD	3.1425	29.11
#1	.00985	.0011
#2	.00943	.0017
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3765.6	2886.3	60927.	2728.4
Stddev	10.2	2.3	303.	14.4
%RSD	.27129	.07833	.49684	.52769
#1	3772.8	2887.9	61141.	2738.6
#2	3758.3	2884.7	60713.	2718.2

Sample Name: MB 480-592916/1-A Acquired: 8/16/2021 18:18:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**-.00573**	**-.00073**	**.00585**	**.00004**
Stddev	.00018	.02651	.00037	.00029	.00000
%RSD	44.568	462.45	51.143	4.9356	10.174
#1	.00028	.01302	-.00099	.00565	.00004
#2	.00053	-.02448	-.00046	.00605	.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.06193**	**.00000**	**.0035**	**.00007**
Stddev	.00002	.00522	.00007	.0096	.00001
%RSD	249.24	8.4266	2143.9	275.0	16.166
#1	.00001	.06562	-.00004	-.0033	.00008
#2	-.00002	.05824	.00005	.0103	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00044**	**.00019**	**-.04290**	**-.00213**
Stddev	.00015	.00027	.00095	.03883	.00003
%RSD	249.96	62.365	504.15	90.512	1.1910
#1	-.00017	-.00025	-.00048	-.01544	-.00211
#2	.00005	-.00063	.00086	-.07036	-.00215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592916/1-A Acquired: 8/16/2021 18:18:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00401**	F **-.00344**	**-.00361**	**.02570**	**.00009**
Stddev	.00137	.00003	.00016	.00928	.00005
%RSD	34.180	.89766	4.5195	36.118	55.393
#1	.00497	-.00346	-.00372	.01914	.00013
#2	.00304	-.00341	-.00349	.03227	.00006
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00049**	**.0078**	**-.00006**	**-.00400**
Stddev	-----	.00060	.0047	.00038	.00067
%RSD	-----	120.28	60.35	647.90	16.821
#1	z 135.9	.00092	.0045	-.00033	-.00353
#2	z 136.1	.00007	.0111	.00021	-.00448
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00332**	**-.00115**	**.00036**	**-.0065**	**-.00014**
Stddev	.02659	.00035	.00004	.0121	.00006
%RSD	800.05	30.166	10.567	184.7	42.716
#1	-.02212	-.00139	.00039	-.0151	-.00018
#2	.01548	-.00090	.00034	.0020	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592916/1-A Acquired: 8/16/2021 18:18:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**.00001**	**.00034**	**.0006**
Stddev	.00067	.00011	.00004	.0013
%RSD	363.42	908.71	13.099	234.7
#1	-.00065	.00009	.00031	-.0004
#2	.00029	-.00006	.00037	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3798.2**	**2897.9**	**61482.**	**2775.7**
Stddev	9.7	8.8	228.	3.2
%RSD	.25538	.30471	.37142	.11620
#1	3791.4	2891.7	61644.	2778.0
#2	3805.1	2904.2	61321.	2773.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.10%	101.10%	101.75%	102.50%
Range				

Sample Name: LCS 480-592916/2-A Acquired: 8/16/2021 18:22:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04609**	**9.8337**	**.20055**	**.20310**	**.21787**
Stddev	.00002	.0682	.00162	.00024	.00066
%RSD	.03675	.69394	.80891	.11681	.30384
#1	.04608	9.8819	.19940	.20327	.21834
#2	.04611	9.7854	.20170	.20293	.21740
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20423**	**9.8976**	**.20015**	**-.0070**	**.19034**
Stddev	.00077	.0077	.00019	.0070	.00025
%RSD	.37758	.07804	.09319	99.64	.12893
#1	.20477	9.8922	.20002	-.0021	.19016
#2	.20368	9.9031	.20028	-.0119	.19051
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19258**	**.18891**	**9.5587**	**9.8838**	**.18944**
Stddev	.00001	.00113	.0285	.0353	.00008
%RSD	.00360	.59860	.29820	.35691	.04244
#1	.19257	.18811	9.5789	9.9087	.18938
#2	.19258	.18971	9.5386	9.8588	.18949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592916/2-A Acquired: 8/16/2021 18:22:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4732**	**.19459**	**.20577**	**10.028**	**.19182**
Stddev	.0490	.00083	.00111	.036	.00035
%RSD	.51688	.42903	.53856	.36193	.18016
#1	9.4386	.19400	.20499	10.054	.19206
#2	9.5079	.19518	.20656	10.002	.19157
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19504**	**9.881**	**.21175**	**.18649**
Stddev	-----	.00051	.001	.00052	.00540
%RSD	-----	.26072	.0110	.24481	2.8942
#1	z 157.2	.19540	9.880	.21211	.19030
#2	z 157.1	.19468	9.882	.21138	.18267
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4365**	**.19077**	**.20055**	**.0110**	**.19796**
Stddev	.0012	.00016	.00063	.0043	.00059
%RSD	.01290	.08513	.31288	39.38	.29984
#1	9.4356	.19065	.20099	.0141	.19838
#2	9.4373	.19088	.20011	.0080	.19754
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592916/2-A Acquired: 8/16/2021 18:22:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20056**	**.19626**	**.19882**	**.0251**
Stddev	.00169	.00003	.00124	.0019
%RSD	.84126	.01567	.62402	7.581
#1	.20176	.19628	.19794	.0265
#2	.19937	.19623	.19969	.0238
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3557.9**	**2843.1**	**59838.**	**2756.4**
Stddev	3.5	.6	201.	.5
%RSD	.09818	.02048	.33570	.01880
#1	3555.5	2843.5	59980.	2756.1
#2	3560.4	2842.7	59696.	2756.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.704%	99.190%	99.030%	101.79%
Range				

Sample Name: 480-187744-C-2-E Acquired: 8/16/2021 18:26:06 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00148**	**.12224**	**-.00070**	**.02865**	**.02987**
Stddev	.00037	.02164	.00003	.00021	.00008
%RSD	24.738	17.705	4.3141	.72695	.26005
#1	.00122	.13754	-.00072	.02880	.02992
#2	.00173	.10693	-.00068	.02850	.02981
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**13.736**	**.00033**	**.0232**	**.00466**
Stddev	.00000	.089	.00006	.0028	.00014
%RSD	2.5975	.64773	17.789	11.92	2.9557
#1	.00011	13.799	.00037	.0212	.00456
#2	.00010	13.673	.00029	.0251	.00476
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.00104**	**.33801**	**1.8356**	**-.00006**
Stddev	.00017	.00053	.00611	.0000	.00086
%RSD	98.348	51.362	1.8074	.00081	1474.3
#1	.00005	.00142	.34233	1.8356	.00055
#2	.00029	.00066	.33369	1.8356	-.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187744-C-2-E Acquired: 8/16/2021 18:26:06 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8785**	**7.5406**	**-.00336**	**4.5944**	**.00122**
Stddev	.0160	.0160	.00021	.0245	.00010
%RSD	.85089	.21194	6.3225	.53235	8.4255
#1	1.8672	7.5293	-.00321	4.6117	.00129
#2	1.8898	7.5519	-.00351	4.5771	.00115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00140**	**5.067**	**-.00264**	**-.00556**
Stddev	-----	.00070	.013	.00077	.00459
%RSD	-----	49.852	.2640	29.182	82.589
#1	z 147.8	.00091	5.076	-.00210	-.00880
#2	z 147.2	.00189	5.057	-.00319	-.00231
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7985**	**-.00027**	**.04764**	**-.0022**	**.00637**
Stddev	.0211	.00015	.00032	.0205	.00022
%RSD	.55587	56.692	.66792	928.0	3.3852
#1	3.8134	-.00016	.04786	-.0167	.00652
#2	3.7835	-.00038	.04741	.0123	.00621
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187744-C-2-E Acquired: 8/16/2021 18:26:06 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00274**	**.00037**	**.01804**	**.0009**
Stddev	.00122	.00004	.00034	.0019
%RSD	44.632	10.877	1.8596	208.1
#1	-.00188	.00034	.01828	-.0004
#2	-.00361	.00039	.01780	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3672.0**	**2879.2**	**60782.**	**2768.8**
Stddev	3.1	.0	47.	27.9
%RSD	.08361	.00054	.07682	1.0081
#1	3674.2	2879.2	60749.	2749.1
#2	3669.9	2879.3	60815.	2788.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.741%	100.45%	100.59%	102.25%
Range				

Sample Name: 480-187744-C-4-E Acquired: 8/16/2021 18:30:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.02962**	**.00067**	**.02483**	**.04333**
Stddev	.00042	.00812	.00151	.00031	.00001
%RSD	71.504	27.410	225.00	1.2586	.02202
#1	.00089	.02388	-.00040	.02505	.04333
#2	.00029	.03536	.00174	.02461	.04332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**28.346**	**.00044**	**.0237**	**-.00006**
Stddev	.00005	.011	.00005	.0219	.00010
%RSD	25.092	.03796	12.129	92.36	179.51
#1	.00015	28.338	.00040	.0392	-.00013
#2	.00022	28.354	.00047	.0082	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.00177**	**-.00171**	**4.4579**	**-.00161**
Stddev	.00014	.00012	.00275	.0143	.00003
%RSD	50.569	6.8841	161.04	.32146	1.8990
#1	.00039	.00168	-.00366	4.4680	-.00163
#2	.00018	.00186	.00024	4.4477	-.00159
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187744-C-4-E Acquired: 8/16/2021 18:30:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.4060**	**3.8840**	**-.00425**	**46.594**	**.00347**
Stddev	.0333	.0210	.00027	.020	.00014
%RSD	.75471	.54045	6.3147	.04232	4.0645
#1	4.3825	3.8691	-.00406	46.580	.00337
#2	4.4295	3.8988	-.00444	46.608	.00357
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00124**	**4.417**	**-.00110**	**-.00597**
Stddev	-----	.00043	.008	.00073	.00124
%RSD	-----	34.647	.1756	66.376	20.794
#1	z 155.2	.00094	4.412	-.00161	-.00509
#2	z 155.2	.00155	4.423	-.00058	-.00685
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6769**	**-.00093**	**.14022**	**-.0091**	**-.00091**
Stddev	.0132	.00029	.00007	.0015	.00030
%RSD	.35926	30.583	.04669	16.40	32.499
#1	3.6862	-.00114	.14027	-.0101	-.00070
#2	3.6675	-.00073	.14018	-.0080	-.00112
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187744-C-4-E Acquired: 8/16/2021 18:30:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00149**	**.00011**	**.00246**	**.0001**
Stddev	.00059	.00021	.00000	.0009
%RSD	39.838	184.20	.20158	738.6
#1	-.00107	.00026	.00246	.0008
#2	-.00191	-.00003	.00245	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3459.2**	**2892.4**	**60443.**	**2841.5**
Stddev	.1	2.7	214.	4.6
%RSD	.00427	.09462	.35436	.16272
#1	3459.1	2890.4	60594.	2844.8
#2	3459.3	2894.3	60291.	2838.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.076%	100.91%	100.03%	104.93%
Range				

Sample Name: 480-188110-A-2-C Acquired: 8/16/2021 18:33:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.27865**	**.00005**	**.10493**	**.13856**
Stddev	.00010	.03957	.00166	.00041	.00003
%RSD	878.66	14.200	3180.2	.38661	.01922
#1	-.00008	.30663	.00122	.10465	.13858
#2	.00006	.25067	-.00112	.10522	.13854
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**164.49**	**.00010**	**.0036**	**.00007**
Stddev	.00004	.58	.00007	.0105	.00027
%RSD	231.43	.35490	66.022	293.2	400.05
#1	-.00005	164.08	.00015	.0110	-.00012
#2	.00001	164.90	.00005	-.0039	.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00085**	**.00124**	**.45209**	**4.0812**	**.00319**
Stddev	.00015	.00019	.00047	.0735	.00106
%RSD	17.711	15.065	.10504	1.8009	33.205
#1	.00095	.00110	.45175	4.0292	.00394
#2	.00074	.00137	.45242	4.1331	.00244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-2-C Acquired: 8/16/2021 18:33:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.513**	**.07232**	**-.00315**	**153.83**	**.00118**
Stddev	.074	.00001	.00002	1.01	.00031
%RSD	.23546	.01087	.56940	.65441	26.091
#1	31.461	.07233	-.00317	153.12	.00096
#2	31.566	.07232	-.00314	154.55	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00038**	**14.54**	**-.00234**	**-.00774**
Stddev	-----	.00029	.01	.00116	.00145
%RSD	-----	76.881	.0660	49.536	18.731
#1	z 176.3	.00017	14.55	-.00317	-.00671
#2	z 176.0	.00058	14.54	-.00152	-.00876
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9998**	**-.00030**	**.38732**	**-.0042**	**.01139**
Stddev	.0418	.00023	.00234	.0147	.00037
%RSD	.69694	77.348	.60522	352.9	3.2414
#1	5.9702	-.00014	.38566	-.0146	.01113
#2	6.0293	-.00046	.38897	.0062	.01165
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-2-C Acquired: 8/16/2021 18:33:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00045**	**.00039**	**.00279**	**-.0002**
Stddev	.00036	.00023	.00023	.0009
%RSD	81.476	59.816	8.1864	410.2
#1	.00070	.00022	.00295	.0004
#2	.00019	.00055	.00263	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3160.3**	**2657.7**	**55119.**	**2682.9**
Stddev	9.3	3.1	73.	13.0
%RSD	.29398	.11813	.13254	.48377
#1	3166.8	2659.9	55170.	2692.0
#2	3153.7	2655.5	55067.	2673.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.119%	92.723%	91.219%	99.073%
Range				

Sample Name: 480-188110-A-3-C Acquired: 8/16/2021 18:37:49 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00026**	**.10050**	**-.00121**	**.16397**	**.13599**
Stddev	.00027	.00918	.00156	.00029	.00016
%RSD	103.61	9.1384	128.44	.17747	.11611
#1	.00007	.10700	-.00011	.16418	.13588
#2	.00045	.09401	-.00232	.16377	.13610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**114.04**	**-.00000**	**-.0008**	**-.00018**
Stddev	.00014	.07	.00010	.0030	.00014
%RSD	1841.9	.05902	3192.8	381.0	79.348
#1	-.00009	114.00	-.00008	-.0029	-.00008
#2	.00010	114.09	.00007	.0013	-.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00063**	**2.7535**	**6.1434**	**.00219**
Stddev	.00004	.00019	.0109	.0599	.00011
%RSD	13.436	29.513	.39605	.97567	4.8804
#1	.00025	.00077	2.7612	6.1010	.00212
#2	.00030	.00050	2.7458	6.1858	.00227
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-3-C Acquired: 8/16/2021 18:37:49 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.249**	**.20940**	**-.00179**	**49.719**	**.00602**
Stddev	.032	.00027	.00017	.062	.00029
%RSD	.11865	.13100	9.7534	.12493	4.8490
#1	27.271	.20959	-.00166	49.763	.00623
#2	27.226	.20920	-.00191	49.675	.00581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00059**	**22.99**	**-.00314**	**-.01132**
Stddev	-----	.00010	.01	.00020	.00087
%RSD	-----	17.208	.0305	6.4580	7.6940
#1	z 171.9	.00067	23.00	-.00299	-.01070
#2	z 172.1	.00052	22.99	-.00328	-.01193
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8061**	**-.00134**	**.20286**	**-.0102**	**.00250**
Stddev	.0670	.00001	.00018	.0135	.00025
%RSD	1.3950	.61912	.08923	132.5	9.9444
#1	4.8535	-.00134	.20273	-.0197	.00232
#2	4.7587	-.00135	.20298	-.0006	.00267
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-3-C Acquired: 8/16/2021 18:37:49 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00210**	**.00004**	**.00044**	**.0018**
Stddev	.00083	.00011	.00006	.0006
%RSD	39.762	283.52	13.294	33.56
#1	.00151	.00012	.00048	.0014
#2	.00268	-.00004	.00040	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3307.2**	**2717.3**	**56869.**	**2693.2**
Stddev	.5	6.1	34.	4.6
%RSD	.01601	.22296	.05980	.16982
#1	3306.9	2721.6	56893.	2696.4
#2	3307.6	2713.1	56845.	2690.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.031%	94.804%	94.115%	99.454%
Range				

Sample Name: 480-188110-A-4-C Acquired: 8/16/2021 18:41:40 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.09793**	**-.00102**	**.16241**	**.13526**
Stddev	.00058	.02567	.00227	.00012	.00016
%RSD	182.70	26.217	223.68	.07328	.11685
#1	-.00009	.11608	-.00263	.16233	.13537
#2	.00073	.07977	.00059	.16250	.13514
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**112.77**	**.00004**	**.0217**	**-.00018**
Stddev	.00001	.07	.00011	.0066	.00002
%RSD	15.191	.06075	277.49	30.18	10.941
#1	-.00005	112.72	-.00004	.0171	-.00017
#2	-.00006	112.82	.00012	.0264	-.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00092**	**3.0141**	**6.0606**	**.00200**
Stddev	.00048	.00002	.0010	.0037	.00020
%RSD	131.09	2.5314	.03203	.06142	9.8394
#1	.00003	.00090	3.0135	6.0633	.00214
#2	.00071	.00094	3.0148	6.0580	.00186
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-4-C Acquired: 8/16/2021 18:41:40 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.234**	**.21105**	**-.00190**	**49.029**	**.00536**
Stddev	.035	.00013	.00001	.050	.00007
%RSD	.12725	.06097	.43579	.10189	1.2795
#1	27.209	.21096	-.00191	48.993	.00541
#2	27.258	.21115	-.00190	49.064	.00531
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00137**	**22.71**	**-.00106**	**-.00854**
Stddev	-----	.00018	.04	.00114	.00057
%RSD	-----	13.446	.1806	107.71	6.7056
#1	z 172.5	.00124	22.68	-.00025	-.00814
#2	z 172.7	.00150	22.74	-.00187	-.00895
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.7584**	**-.00151**	**.20064**	**.0025**	**.00281**
Stddev	.0171	.00006	.00060	.0169	.00002
%RSD	.35843	3.6665	.29976	686.1	.58771
#1	4.7704	-.00147	.20022	.0144	.00280
#2	4.7463	-.00155	.20107	-.0095	.00282
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-4-C Acquired: 8/16/2021 18:41:40 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00230**	**-.00029**	**.00092**	**.0011**
Stddev	.00140	.00006	.00030	.0008
%RSD	60.820	21.457	32.540	75.19
#1	.00131	-.00034	.00071	.0005
#2	.00329	-.00025	.00114	.0017
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3311.6**	**2720.4**	**56910.**	**2710.4**
Stddev	6.0	2.9	19.	12.6
%RSD	.18233	.10593	.03390	.46401
#1	3315.8	2722.5	56924.	2701.5
#2	3307.3	2718.4	56897.	2719.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.146%	94.911%	94.184%	100.09%
Range				

Sample Name: 480-188110-A-5-C Acquired: 8/16/2021 18:45:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00069**	**.02730**	**-.00003**	**.00345**	**.00019**
Stddev	.00037	.01675	.00100	.00020	.00002
%RSD	53.373	61.332	3420.1	5.8437	9.8466
#1	.00043	.01546	-.00074	.00331	.00018
#2	.00095	.03915	.00068	.00359	.00020
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.11540**	**-.00010**	**.0083**	**-.00002**
Stddev	.00007	.00261	.00010	.0052	.00003
%RSD	472.49	2.2575	96.525	62.39	162.92
#1	.00006	.11356	-.00003	.0046	-.00004
#2	-.00003	.11724	-.00017	.0120	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.00023**	**.00698**	**-.05792**	**-.00185**
Stddev	.00002	.00010	.00272	.00068	.00037
%RSD	41.956	45.380	39.001	1.1793	20.078
#1	.00004	.00016	.00890	-.05744	-.00159
#2	.00007	.00030	.00505	-.05840	-.00211
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-5-C Acquired: 8/16/2021 18:45:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01362**	F **-.00356**	**-.00443**	**.04967**	**.00021**
Stddev	.00036	.00001	.00013	.00515	.00020
%RSD	2.6567	.35119	2.9091	10.363	92.888
#1	.01336	-.00357	-.00434	.05331	.00035
#2	.01387	-.00356	-.00452	.04603	.00007
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00016**	**.0080**	**-.00167**	**-.00567**
Stddev	-----	.00036	.0032	.00049	.00194
%RSD	-----	220.71	39.97	29.420	34.184
#1	z 136.1	.00042	.0103	-.00132	-.00704
#2	z 136.3	-.00009	.0058	-.00202	-.00430
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00694**	**-.00066**	**.00045**	**-.0080**	**-.00014**
Stddev	.00842	.00030	.00004	.0094	.00001
%RSD	121.20	45.252	9.6210	117.4	9.9360
#1	.01290	-.00088	.00041	-.0014	-.00014
#2	.00099	-.00045	.00048	-.0146	-.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-5-C Acquired: 8/16/2021 18:45:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00034**	**-.00014**	**.00079**	**.0009**
Stddev	.00010	.00020	.00028	.0019
%RSD	28.363	143.09	35.980	202.1
#1	-.00027	-.00028	.00059	.0023
#2	-.00040	.00000	.00099	-.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3802.2**	**2902.9**	**61146.**	**2746.9**
Stddev	7.5	1.0	160.	19.6
%RSD	.19699	.03612	.26110	.71334
#1	3796.9	2903.6	61259.	2760.8
#2	3807.5	2902.1	61033.	2733.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.20%	101.28%	101.19%	101.44%
Range				

Sample Name: 480-188110-A-6-C Acquired: 8/16/2021 18:49:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.15303**	**.00004**	**.21419**	**.06218**
Stddev	.00094	.01481	.00163	.00054	.00004
%RSD	406.82	9.6795	4319.1	.25319	.06124
#1	.00090	.14256	.00119	.21381	.06220
#2	-.00044	.16351	-.00111	.21458	.06215
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**208.17**	**.00003**	**-.0174**	**.00065**
Stddev	.00003	.11	.00004	.0333	.00001
%RSD	267.63	.05161	158.38	191.2	1.3233
#1	-.00001	208.24	-.00000	.0061	.00064
#2	.00004	208.09	.00006	-.0410	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00100**	**.00330**	**.91213**	**2.3528**	**.01078**
Stddev	.00020	.00028	.00970	.0083	.00137
%RSD	20.068	8.5216	1.0638	.35238	12.682
#1	.00085	.00310	.90527	2.3586	.01175
#2	.00114	.00349	.91899	2.3469	.00982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-6-C Acquired: 8/16/2021 18:49:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.975**	**.01061**	**-.00266**	**17.368**	**.00153**
Stddev	.061	.00007	.00020	.043	.00010
%RSD	.21863	.68254	7.4932	.24879	6.8591
#1	27.932	.01056	-.00252	17.338	.00145
#2	28.018	.01066	-.00280	17.399	.00160
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00125**	F **106.3**	**-.00446**	**-.00208**
Stddev	-----	.00027	.1	.00006	.00223
%RSD	-----	21.423	.1376	1.3759	107.29
#1	z 175.1	-.00106	106.2	-.00451	-.00366
#2	z 175.3	-.00144	106.4	-.00442	-.00050
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.4988**	**-.00101**	**.37963**	**-.0229**	**.00475**
Stddev	.0630	.00030	.00057	.0118	.00052
%RSD	1.1459	29.915	.14983	51.74	10.863
#1	5.4542	-.00080	.37923	-.0145	.00439
#2	5.5433	-.00123	.38003	-.0313	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-6-C Acquired: 8/16/2021 18:49:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00044**	**.00021**	**.00226**	**.0010**
Stddev	.00063	.00000	.00023	.0010
%RSD	141.27	.45085	10.258	101.3
#1	.00000	.00021	.00242	.0017
#2	.00089	.00021	.00209	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3281.1**	**2682.5**	**56495.**	**2701.4**
Stddev	4.8	3.6	222.	8.4
%RSD	.14582	.13266	.39250	.31032
#1	3284.5	2685.0	56338.	2695.4
#2	3277.7	2679.9	56652.	2707.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.335%	93.587%	93.496%	99.755%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 18:53:15 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95568**	**48.214**	**.96686**	**.98581**	**.97418**	**.97447**	**48.489**	**.97385**
Stddev	.00430	.088	.00140	.00123	.00070	.00473	.245	.00019
%RSD	.45019	.18286	.14465	.12507	.07203	.48545	.50587	.01907
#1	.95264	48.276	.96785	.98668	.97467	.97782	48.663	.97398
#2	.95872	48.151	.96588	.98493	.97368	.97113	48.316	.97372
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9435**	**.96767**	**.97272**	**.95693**	**48.461**	**48.444**	**.95231**	**47.926**
Stddev	.0030	.00099	.00424	.00427	.065	.140	.00407	.250
%RSD	.3162	.10250	.43566	.44610	.13333	.28800	.42751	.52168
#1	.9413	.96697	.96973	.95391	48.415	48.542	.94943	47.749
#2	.9456	.96838	.97572	.95995	48.507	48.345	.95519	48.103
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.97265**	**.99401**	**48.691**	**.96694**	z *****	**.96897**	**24.43**	**.96816**
Stddev	.00385	.00592	.041	.00211	-----	.00162	.02	.00658
%RSD	.39623	.59590	.08419	.21840	-----	.16714	.0988	.67945
#1	.96993	.98982	48.720	.96544	z 9115.	.96783	24.41	.96351
#2	.97538	.99820	48.662	.96843	z 9118.	.97012	24.44	.97281
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 18:53:15 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96233	9.3384	.96771	.96447	.9651	.97148	.97911	.97446
Stddev	.00663	.0769	.00104	.00112	.0150	.00077	.00197	.00085
%RSD	.68884	.82334	.10698	.11619	1.551	.07919	.20073	.08709
#1	.96702	9.2840	.96698	.96526	.9757	.97093	.98050	.97386
#2	.95765	9.3927	.96844	.96368	.9545	.97202	.97772	.97506
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99777	.9308
Stddev	.00105	.0061
%RSD	.10551	.6527
#1	.99852	.9265
#2	.99703	.9351
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3247.9	2776.2	56443.	2671.2
Stddev	2.6	.2	307.	1.3
%RSD	.08145	.00638	.54474	.04956
#1	3246.0	2776.1	56660.	2670.3
#2	3249.8	2776.3	56225.	2672.2

Sample Name: CCB-6615058 Acquired: 8/16/2021 18:56:56 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**-.02560**	**.00060**	**-.00051**	**.00009**	**.00006**	**.00546**	**.00002**
Stddev	.00025	.00045	.00073	.00069	.00001	.00007	.00320	.00000
%RSD	44.676	1.7435	120.29	134.61	11.986	116.77	58.608	20.763
#1	.00075	-.02592	.00009	-.00002	.00009	.00001	.00320	.00002
#2	.00039	-.02529	.00112	-.00099	.00008	.00011	.00773	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0193**	**-.00004**	**.00012**	**.00015**	**.00365**	**-.05997**	**-.00256**	**-.00329**
Stddev	.0274	.00002	.00007	.00004	.00192	.00711	.00105	.00065
%RSD	141.6	44.717	55.009	24.389	52.661	11.858	40.865	19.770
#1	-.0000	-.00006	.00017	.00013	.00229	-.06500	-.00330	-.00283
#2	.0387	-.00003	.00007	.00018	.00501	-.05494	-.00182	-.00375
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00009**	**.00398**	**.00114**	**.00009**	z *****	**-.00014**	**-.0027**	**-.00028**
Stddev	.00001	.00100	.00607	.00011	-----	.00003	.0048	.00037
%RSD	13.866	25.076	530.55	124.33	-----	22.002	176.5	132.04
#1	-.00010	.00469	-.00315	.00017	z 139.9	-.00012	.0007	-.00002
#2	-.00008	.00328	.00544	.00001	z 139.7	-.00017	-.0061	-.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 18:56:56 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00070	-.01451	-.00039	.00010	.0086	.00026	.00021	-.00016
Stddev	.00065	.01275	.00057	.00000	.0093	.00020	.00118	.00016
%RSD	92.525	87.860	148.82	2.2637	107.5	76.608	552.20	97.358
#1	.00116	-.02353	-.00079	.00010	.0152	.00012	.00105	-.00027
#2	.00024	-.00550	.00002	.00010	.0021	.00041	-.00062	-.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00042	.0021
Stddev	.00004	.0003
%RSD	9.5574	13.91
#1	.00039	.0023
#2	.00045	.0019
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3780.7	2872.7	60714.	2695.5
Stddev	10.0	6.7	70.	2.0
%RSD	.26557	.23481	.11526	.07262
#1	3787.8	2877.4	60665.	2694.1
#2	3773.6	2867.9	60764.	2696.8

Sample Name: CCVL-6615375 Acquired: 8/16/2021 19:00:51 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00600**	**.17771**	**.01430**	**.01774**	**.00211**	**.00193**	**.49300**
Stddev	.00049	.00043	.00108	.00016	.00001	.00003	.00176
%RSD	8.2458	.24382	7.5404	.89246	.44058	1.7314	.35795
#1	.00565	.17801	.01353	.01763	.00211	.00196	.49424
#2	.00635	.17740	.01506	.01785	.00212	.00191	.49175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00193**	**.0034**	**.00380**	**.00396**	**.00894**	**.04546**	**.42613**
Stddev	.00001	.0006	.00005	.00022	.00006	.00152	.00509
%RSD	.27294	16.55	1.2625	5.6119	.65355	3.3445	1.1933
#1	.00194	.0038	.00377	.00412	.00890	.04438	.42253
#2	.00193	.0030	.00384	.00380	.00898	.04653	.42972
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02404**	**.19171**	**.00299**	**.00767**	**.99081**	**.00947**	z *****
Stddev	.00072	.00492	.00004	.00005	.00166	.00017	-----
%RSD	2.9887	2.5648	1.2303	.70693	.16758	1.8368	-----
#1	.02353	.18823	.00296	.00771	.98964	.00960	z 139.2
#2	.02454	.19518	.00301	.00763	.99199	.00935	z 139.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Sample Name: CCVL-6615375 Acquired: 8/16/2021 19:00:51 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00925**	**.1835**	**.02010**	W **.01690**	**.44871**	**.00847**	**.00479**
Stddev	.00158	.0015	.00216	.00308	.00811	.00025	.00004
%RSD	17.136	.8409	10.754	18.240	1.8077	2.9991	.89342
#1	.01037	.1846	.01857	.01908	.44298	.00829	.00476
#2	.00813	.1824	.02163	.01472	.45445	.00865	.00482
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	Chk Pass
Value				.02500			
Range				-30.000%			

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.00458**	**.01993**	**.00440**	**.00932**	**.0010**
Stddev	.0081	.00014	.00010	.00024	.00036	.0006
%RSD	5727.	3.0234	.51965	5.4288	3.8220	62.16
#1	-.0056	.00468	.01985	.00423	.00907	.0006
#2	.0059	.00448	.02000	.00457	.00957	.0015
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3758.2**	**2872.8**	**60719.**	**2705.1**
Stddev	7.6	5.7	15.	15.5
%RSD	.20199	.19957	.02443	.57240
#1	3752.8	2868.8	60709.	2694.2
#2	3763.5	2876.9	60730.	2716.1

Sample Name: 480-188110-A-7-C Acquired: 8/16/2021 19:04:46 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.01700**	**-.00087**	**.12282**	**.10720**
Stddev	.00049	.03574	.00488	.00044	.00008
%RSD	2358.0	210.25	563.54	.35796	.07762
#1	.00036	-.00827	-.00432	.12313	.10726
#2	-.00032	.04227	.00259	.12251	.10714
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**134.05**	**.00012**	**.0055**	**.00031**
Stddev	.00004	.20	.00002	.0155	.00013
%RSD	67.365	.15175	13.076	284.7	42.668
#1	.00003	133.91	.00011	.0164	.00022
#2	.00009	134.19	.00013	-.0055	.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.00102**	**.80004**	**3.2317**	**.00145**
Stddev	.00025	.00004	.00198	.0032	.00036
%RSD	164.05	4.3341	.24748	.09791	24.914
#1	.00033	.00099	.80144	3.2339	.00171
#2	-.00002	.00105	.79864	3.2294	.00120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-7-C Acquired: 8/16/2021 19:04:46 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.659**	**.08359**	**-.00116**	**29.787**	**.00050**
Stddev	.005	.00018	.00009	.072	.00002
%RSD	.01650	.21722	8.0133	.24235	4.2766
#1	27.662	.08372	-.00110	29.736	.00049
#2	27.655	.08346	-.00123	29.838	.00052
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00007**	**42.53**	**-.00026**	**-.00419**
Stddev	-----	.00107	.01	.00068	.00320
%RSD	-----	1515.4	.0321	257.18	76.303
#1	z 171.5	-.00083	42.54	.00022	-.00646
#2	z 172.0	.00069	42.52	-.00074	-.00193
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.9881**	**-.00085**	**.27193**	**.0081**	**.00135**
Stddev	.0194	.00023	.00074	.0199	.00008
%RSD	.32370	26.892	.27299	247.4	5.6328
#1	6.0018	-.00069	.27140	-.0060	.00129
#2	5.9744	-.00101	.27245	.0222	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188110-A-7-C Acquired: 8/16/2021 19:04:46 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00118**	**-.00009**	**.00125**	**.0007**
Stddev	.00048	.00035	.00030	.0001
%RSD	40.611	397.81	23.780	11.12
#1	.00084	.00016	.00146	.0006
#2	.00152	-.00034	.00104	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3320.4**	**2704.0**	**56755.**	**2709.5**
Stddev	1.2	.5	59.	1.2
%RSD	.03538	.01934	.10374	.04258
#1	3319.6	2703.6	56797.	2708.7
#2	3321.2	2704.3	56714.	2710.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.381%	94.337%	93.928%	100.06%
Range				

Sample Name: 480-188125-C-1-E Acquired: 8/16/2021 19:08:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.02335**	**.00633**	**.12115**	**.10387**
Stddev	.00045	.00022	.00412	.00063	.00006
%RSD	667.23	.92661	65.199	.52000	.06122
#1	.00038	.02320	.00924	.12071	.10392
#2	-.00025	.02351	.00341	.12160	.10383
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**81.528**	**.00016**	**-.0117**	**-.00014**
Stddev	.00005	.434	.00008	.0311	.00010
%RSD	135.30	.53251	49.730	266.3	72.336
#1	-.00007	81.221	.00010	.0103	-.00021
#2	-.00000	81.835	.00021	-.0336	-.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00010**	**.00027**	**.10996**	**4.0973**	**.01610**
Stddev	.00018	.00031	.00435	.0104	.00072
%RSD	182.55	115.33	3.9548	.25424	4.4744
#1	-.00003	.00048	.10689	4.0900	.01559
#2	.00023	.00005	.11304	4.1047	.01661
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-1-E Acquired: 8/16/2021 19:08:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.466**	**.10149**	**.00559**	**150.88**	**.00015**
Stddev	.008	.00003	.00014	.46	.00006
%RSD	.06330	.02853	2.4658	.30357	42.233
#1	12.461	.10147	.00569	150.56	.00020
#2	12.472	.10151	.00549	151.21	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00021**	**51.87**	**-.00329**	**-.01011**
Stddev	-----	.00015	.00	.00230	.00110
%RSD	-----	71.694	.0015	69.769	10.851
#1	z 168.0	.00010	51.87	-.00167	-.01088
#2	z 168.3	.00032	51.87	-.00492	-.00933
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6145**	**-.00017**	**.26974**	**-.0079**	**.00047**
Stddev	.0940	.00034	.00166	.0003	.00026
%RSD	1.0906	197.67	.61644	3.803	54.604
#1	8.5481	-.00042	.26856	-.0081	.00029
#2	8.6810	.00007	.27091	-.0077	.00065
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-1-E Acquired: 8/16/2021 19:08:37 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00012**	**.00027**	**.00114**	**.0005**
Stddev	.00109	.00014	.00028	.0009
%RSD	923.83	52.464	24.167	192.8
#1	.00089	.00017	.00095	.0011
#2	-.00065	.00037	.00134	-.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3259.0**	**2704.5**	**56263.**	**2691.1**
Stddev	1.7	1.0	113.	19.3
%RSD	.05348	.03563	.20050	.71604
#1	3260.3	2705.1	56183.	2704.8
#2	3257.8	2703.8	56342.	2677.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.748%	94.354%	93.112%	99.378%
Range				

Sample Name: 480-188125-C-2-C Acquired: 8/16/2021 19:12:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**.08538**	**.00216**	**.11037**	**.03260**
Stddev	.00013	.02788	.00116	.00035	.00007
%RSD	44.472	32.660	53.750	.31682	.20232
#1	.00021	.10510	.00298	.11012	.03264
#2	.00040	.06566	.00134	.11061	.03255
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**112.77**	**.01174**	**.0256**	**.00503**
Stddev	.00002	.48	.00011	.0001	.00024
%RSD	58.965	.42503	.90357	.2796	4.7034
#1	-.00006	112.43	.01167	.0256	.00520
#2	-.00002	113.11	.01182	.0255	.00486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00058**	**.11732**	**.11961**	**3.9565**	**.03662**
Stddev	.00027	.00038	.00417	.0319	.00149
%RSD	46.998	.32584	3.4827	.80550	4.0759
#1	.00038	.11759	.11666	3.9339	.03556
#2	.00077	.11705	.12255	3.9790	.03768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-2-C Acquired: 8/16/2021 19:12:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.402**	**.06225**	**-.00095**	**16.748**	**.01478**
Stddev	.076	.00035	.00011	.037	.00000
%RSD	.66375	.56017	11.387	.22140	.03120
#1	11.455	.06249	-.00087	16.721	.01478
#2	11.348	.06200	-.00102	16.774	.01478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.01390**	**57.68**	**.00182**	**.01240**
Stddev	-----	.00010	.02	.00042	.00292
%RSD	-----	.68338	.0350	22.955	23.565
#1	z 174.2	.01383	57.70	.00211	.01034
#2	z 173.9	.01397	57.67	.00152	.01447
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.769**	**-.00072**	**.28865**	**.0026**	**.00334**
Stddev	.108	.00060	.00066	.0024	.00262
%RSD	.91946	83.442	.22848	92.66	78.408
#1	11.692	-.00115	.28818	.0009	.00149
#2	11.845	-.00030	.28912	.0042	.00519
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-2-C Acquired: 8/16/2021 19:12:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00305**	**.00046**	**2.8632**	**.0000**
Stddev	.00044	.00015	.0075	.0000
%RSD	14.327	31.795	.26154	92.55
#1	.00335	.00035	2.8579	.0000
#2	.00274	.00056	2.8685	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3419.3**	**2751.4**	**57610.**	**2706.0**
Stddev	5.2	4.3	79.	13.3
%RSD	.15126	.15510	.13640	.48972
#1	3415.6	2748.4	57666.	2715.4
#2	3423.0	2754.4	57555.	2696.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.014%	95.993%	95.342%	99.928%
Range				

Sample Name: 480-188125-C-3-G Acquired: 8/16/2021 19:16:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00015**	**.02278**	**.00733**	**.12208**	**.10497**
Stddev	.00004	.02019	.00044	.00072	.00003
%RSD	24.827	88.638	5.9615	.59014	.02754
#1	.00018	.00850	.00764	.12157	.10495
#2	.00013	.03705	.00702	.12259	.10499
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**83.038**	**-.00006**	**.0158**	**-.00018**
Stddev	.00002	.076	.00000	.0198	.00016
%RSD	34.621	.09100	2.6378	125.0	86.260
#1	-.00005	82.984	-.00006	.0298	-.00007
#2	-.00009	83.091	-.00006	.0018	-.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00058**	**.12096**	**4.1567**	**.01483**
Stddev	.00012	.00023	.00040	.0297	.00105
%RSD	53.191	39.975	.32876	.71351	7.1074
#1	.00032	.00074	.12068	4.1777	.01557
#2	.00015	.00041	.12124	4.1357	.01408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-G Acquired: 8/16/2021 19:16:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**12.607**	**.10328**	**.00512**	**152.45**	**.00018**
Stddev	.006	.00013	.00027	.25	.00009
%RSD	.04930	.12269	5.2976	.16368	49.103
#1	12.611	.10337	.00493	152.27	.00024
#2	12.602	.10319	.00531	152.63	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00078**	**52.93**	**-.00132**	**-.01048**
Stddev	-----	.00039	.00	.00020	.00019
%RSD	-----	49.581	.0085	15.335	1.8574
#1	z 168.6	.00051	52.93	-.00117	-.01034
#2	z 168.9	.00106	52.93	-.00146	-.01061
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.7223**	**-.00065**	**.27457**	**-.0093**	**.00072**
Stddev	.0099	.00101	.00032	.0029	.00017
%RSD	.11340	155.38	.11627	30.94	24.260
#1	8.7293	.00006	.27480	-.0072	.00060
#2	8.7153	-.00136	.27435	-.0113	.00084
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-G Acquired: 8/16/2021 19:16:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00096**	**.00038**	**.00039**	**.0002**
Stddev	.00056	.00018	.00105	.0012
%RSD	58.100	46.553	266.46	584.0
#1	.00057	.00026	-.00035	-.0007
#2	.00136	.00051	.00113	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3263.7**	**2707.0**	**56339.**	**2694.5**
Stddev	1.0	1.2	49.	2.5
%RSD	.03058	.04345	.08614	.09259
#1	3264.4	2706.1	56304.	2696.3
#2	3263.0	2707.8	56373.	2692.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.873%	94.442%	93.238%	99.502%
Range				

Sample Name: 480-188125-C-3-GSD@5 Acquired: 8/16/2021 19:20:07 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00026**	**-.02222**	**.00099**	**.02298**	**.02127**
Stddev	.00011	.00897	.00063	.00008	.00004
%RSD	43.484	40.383	63.440	.35030	.19271
#1	-.00018	-.01587	.00055	.02292	.02124
#2	-.00034	-.02856	.00144	.02304	.02130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**16.610**	**-.00008**	**-.0172**	**-.00011**
Stddev	.00002	.068	.00001	.0051	.00008
%RSD	312.81	.40757	8.5746	29.79	68.273
#1	.00001	16.658	-.00008	-.0136	-.00006
#2	-.00002	16.562	-.00007	-.0208	-.00017
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**-.00002**	**.01948**	**.73561**	**.00206**
Stddev	.00027	.00017	.00392	.00897	.00028
%RSD	139.24	826.31	20.100	1.2195	13.362
#1	.00000	.00010	.02225	.74195	.00187
#2	.00038	-.00014	.01672	.72926	.00226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-GSD@5 Acquired: 8/16/2021 19:20:07 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.5615**	**.01757**	**-.00247**	**30.663**	**-.00005**
Stddev	.0007	.00011	.00009	.096	.00017
%RSD	.02637	.61777	3.7061	.31190	327.05
#1	2.5620	.01765	-.00240	30.731	-.00017
#2	2.5610	.01749	-.00253	30.596	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00036**	**10.09**	**-.00113**	**-.00603**
Stddev	-----	.00017	.02	.00085	.00160
%RSD	-----	47.898	.1845	75.654	26.526
#1	z 146.8	.00048	10.11	-.00052	-.00716
#2	z 148.1	.00024	10.08	-.00173	-.00490
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7127**	**-.00112**	**.05487**	**-.0153**	**-.00001**
Stddev	.0269	.00007	.00013	.0001	.00000
%RSD	1.5686	6.2855	.23075	.7820	3.7456
#1	1.7317	-.00116	.05496	-.0154	-.00001
#2	1.6937	-.00107	.05478	-.0152	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-GSD@5 Acquired: 8/16/2021 19:20:07 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	.00059	-.00006	-.00018	-.0009
Stddev	.00095	.00012	.00013	.0009
%RSD	160.81	183.51	74.192	102.5
#1	-.00008	-.00015	-.00009	-.0002
#2	.00126	.00002	-.00028	-.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3555.4	2811.1	58848.	2711.2
Stddev	3.7	7.6	81.	20.8
%RSD	.10500	.27069	.13752	.76605
#1	3552.8	2805.8	58791.	2696.5
#2	3558.1	2816.5	58906.	2725.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.638%	98.076%	97.391%	100.12%
Range				

Sample Name: 480-188125-C-3-GPDs Acquired: 8/16/2021 19:23:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04979**	**9.9220**	**.21828**	**.32174**	**.31104**
Stddev	.00064	.0361	.00226	.00022	.00118
%RSD	1.2789	.36413	1.0368	.06777	.37980
#1	.05024	9.8965	.21988	.32189	.31021
#2	.04934	9.9476	.21668	.32158	.31188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20849**	**90.188**	**.20757**	**.0128**	**.19901**
Stddev	.00054	.247	.00011	.0299	.00040
%RSD	.25701	.27341	.05224	232.4	.20202
#1	.20811	90.014	.20750	.0340	.19872
#2	.20887	90.363	.20765	-.0083	.19929
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19913**	**.19940**	**9.8853**	**14.216**	**.21446**
Stddev	.00054	.00028	.0366	.047	.00267
%RSD	.26955	.13964	.37024	.32991	1.2461
#1	.19875	.19960	9.8594	14.183	.21257
#2	.19951	.19921	9.9112	14.249	.21635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-GPDs Acquired: 8/16/2021 19:23:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.259**	**.30424**	**.21829**	**156.94**	**.20038**
Stddev	.026	.00030	.00019	.83	.00014
%RSD	.11535	.09763	.08855	.52675	.07027
#1	22.240	.30403	.21815	156.36	.20048
#2	22.277	.30445	.21842	157.53	.20028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20157**	**61.55**	**.22103**	**.19140**
Stddev	-----	.00085	.07	.00099	.00433
%RSD	-----	.42017	.1195	.44804	2.2648
#1	z 183.0	.20217	61.60	.22173	.19446
#2	z 183.3	.20097	61.50	.22033	.18833
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.113**	**.19786**	**.46802**	**.0090**	**.20361**
Stddev	.111	.00041	.00082	.0065	.00000
%RSD	.61100	.20936	.17575	72.71	.00215
#1	18.035	.19757	.46743	.0044	.20361
#2	18.191	.19815	.46860	.0136	.20361
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-GPDs Acquired: 8/16/2021 19:23:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20087**	**.20241**	**.20243**	**.0344**
Stddev	.00012	.00018	.00161	.0011
%RSD	.06009	.08775	.79583	3.307
#1	.20079	.20228	.20129	.0352
#2	.20096	.20254	.20357	.0336
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3205.9**	**2698.3**	**55936.**	**2704.1**
Stddev	4.3	1.4	185.	16.7
%RSD	.13399	.05219	.33059	.61702
#1	3209.0	2697.3	56067.	2715.9
#2	3202.9	2699.3	55806.	2692.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.335%	94.139%	92.572%	99.855%
Range				

Sample Name: 480-188125-C-3-H MS Acquired: 8/16/2021 19:27:46 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04773**	**9.7339**	**.21742**	**.32408**	**.31268**
Stddev	.00005	.0212	.00257	.00063	.00073
%RSD	.10870	.21752	1.1830	.19424	.23317
#1	.04776	9.7189	.21560	.32364	.31217
#2	.04769	9.7489	.21924	.32453	.31320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20456**	**91.620**	**.20436**	**-.0223**	**.19563**
Stddev	.00011	.074	.00003	.0225	.00026
%RSD	.05418	.08030	.01334	100.8	.13362
#1	.20448	91.568	.20438	-.0064	.19544
#2	.20463	91.672	.20435	-.0382	.19581
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19387**	**.19108**	**9.5479**	**14.129**	**.20649**
Stddev	.00015	.00040	.0107	.000	.00046
%RSD	.07831	.20854	.11232	.00003	.22515
#1	.19398	.19136	9.5555	14.129	.20616
#2	.19376	.19080	9.5403	14.129	.20682
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-H MS Acquired: 8/16/2021 19:27:46 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**21.878**	**.29855**	**.21721**	**163.04**	**.19660**
Stddev	.009	.00042	.00089	.65	.00022
%RSD	.03936	.13985	.40966	.40091	.11270
#1	21.872	.29884	.21658	162.58	.19644
#2	21.884	.29825	.21784	163.51	.19676
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19845**	**63.32**	**.21912**	**.18403**
Stddev	-----	.00174	.06	.00001	.00091
%RSD	-----	.87576	.0890	.00653	.49647
#1	z 183.1	.19967	63.28	.21913	.18339
#2	z 183.6	.19722	63.36	.21911	.18468
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.076**	**.19733**	**.46892**	**.0063**	**.20069**
Stddev	.049	.00119	.00004	.0024	.00075
%RSD	.26956	.60233	.00810	38.11	.37323
#1	18.042	.19649	.46890	.0046	.20016
#2	18.111	.19817	.46895	.0079	.20122
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-H MS Acquired: 8/16/2021 19:27:46 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19757**	**.19776**	**.19938**	**.0187**
Stddev	.00172	.00028	.00046	.0000
%RSD	.86995	.13920	.23257	.0913
#1	.19636	.19756	.19970	.0187
#2	.19879	.19795	.19905	.0187
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3196.6**	**2692.3**	**56029.**	**2721.0**
Stddev	1.2	1.5	15.	7.9
%RSD	.03767	.05692	.02758	.29129
#1	3195.7	2693.4	56040.	2726.6
#2	3197.4	2691.3	56018.	2715.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.085%	93.932%	92.725%	100.48%
Range				

Sample Name: 480-188125-C-3-I MSD Acquired: 8/16/2021 19:31:33 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04875**	**9.9268**	**.21836**	**.32789**	**.31689**
Stddev	.00014	.0691	.00058	.00025	.00121
%RSD	.27963	.69585	.26422	.07709	.38299
#1	.04884	9.9756	.21795	.32807	.31774
#2	.04865	9.8779	.21876	.32771	.31603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20764**	**91.452**	**.20625**	**-.0157**	**.19807**
Stddev	.00088	.024	.00031	.0033	.00000
%RSD	.42217	.02670	.15042	21.14	.00220
#1	.20826	91.469	.20647	-.0180	.19807
#2	.20702	91.435	.20603	-.0133	.19807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19654**	**.19435**	**9.7041**	**14.330**	**.21195**
Stddev	.00022	.00065	.0047	.004	.00113
%RSD	.11080	.33603	.04803	.02635	.53178
#1	.19638	.19389	9.7074	14.333	.21275
#2	.19669	.19481	9.7008	14.328	.21116
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-I MSD Acquired: 8/16/2021 19:31:33 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**22.070**	**.30034**	**.22097**	**171.18**	**.19946**
Stddev	.061	.00125	.00025	.20	.00071
%RSD	.27606	.41637	.11213	.11696	.35822
#1	22.027	.29946	.22079	171.04	.19896
#2	22.113	.30123	.22114	171.32	.19997
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20078**	**63.73**	**.21907**	**.19286**
Stddev	-----	.00162	.04	.00054	.00061
%RSD	-----	.80770	.0627	.24850	.31382
#1	z 184.2	.19963	63.76	.21946	.19329
#2	z 184.1	.20192	63.70	.21869	.19243
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.421**	**.19924**	**.47268**	**.0150**	**.20348**
Stddev	.091	.00078	.00038	.0056	.00056
%RSD	.49544	.39066	.08056	37.59	.27368
#1	18.486	.19979	.47295	.0190	.20308
#2	18.357	.19869	.47241	.0110	.20387
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-3-I MSD Acquired: 8/16/2021 19:31:33 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19942**	**.20135**	**.20457**	**.0132**
Stddev	.00074	.00134	.00036	.0018
%RSD	.37050	.66493	.17481	13.22
#1	.19890	.20040	.20482	.0120
#2	.19994	.20230	.20431	.0145
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3192.0**	**2690.1**	**55774.**	**2699.2**
Stddev	2.8	2.3	84.	6.3
%RSD	.08647	.08718	.15058	.23157
#1	3193.9	2691.8	55834.	2694.8
#2	3190.0	2688.5	55715.	2703.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.963%	93.854%	92.304%	99.675%
Range				

Sample Name: 480-188125-C-4-C Acquired: 8/16/2021 19:35:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**.07735**	**-.00074**	**.12872**	**.06672**
Stddev	.00046	.03580	.00138	.00020	.00004
%RSD	318.45	46.278	187.68	.15371	.05563
#1	.00018	.10266	-.00171	.12886	.06674
#2	-.00046	.05204	.00024	.12858	.06669
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**124.74**	**.00052**	**-.0005**	**.00206**
Stddev	.00004	.02	.00008	.0021	.00008
%RSD	74.106	.01298	16.255	399.8	3.8962
#1	-.00007	124.76	.00046	-.0021	.00200
#2	-.00002	124.73	.00058	.0010	.00212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06325**	**.00724**	**.20074**	**1.4144**	**.02428**
Stddev	.00005	.00015	.00207	.0011	.00007
%RSD	.08624	2.0391	1.0312	.07730	.29014
#1	.06329	.00735	.20220	1.4152	.02433
#2	.06321	.00714	.19927	1.4137	.02423
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-4-C Acquired: 8/16/2021 19:35:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.074**	**.39380**	**.00561**	**65.815**	**.05734**
Stddev	.014	.00018	.00023	.196	.00001
%RSD	.09703	.04592	4.0277	.29819	.01437
#1	14.083	.39367	.00577	65.953	.05734
#2	14.064	.39393	.00545	65.676	.05733
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00133**	**39.81**	**-.00244**	**-.00944**
Stddev	-----	.00025	.01	.00025	.00290
%RSD	-----	19.076	.0142	10.352	30.782
#1	z 174.0	.00150	39.81	-.00226	-.01149
#2	z 174.8	.00115	39.80	-.00262	-.00738
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.124**	**-.00079**	**.42019**	**-.0149**	**.00170**
Stddev	.080	.00015	.00025	.0094	.00010
%RSD	.61160	18.974	.05872	63.11	5.9043
#1	13.181	-.00069	.42002	-.0215	.00163
#2	13.067	-.00090	.42037	-.0082	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188125-C-4-C Acquired: 8/16/2021 19:35:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00299**	**.00144**	**.00548**	**-.0005**
Stddev	.00071	.00017	.00044	.0004
%RSD	23.607	11.464	8.1022	89.09
#1	.00249	.00133	.00516	-.0002
#2	.00349	.00156	.00579	-.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3306.2**	**2703.1**	**56450.**	**2681.7**
Stddev	.2	4.6	34.	5.1
%RSD	.00682	.17136	.06049	.19027
#1	3306.0	2699.8	56474.	2678.1
#2	3306.3	2706.4	56426.	2685.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	88.002%	94.307%	93.422%	99.031%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 19:39:12 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.93936**	**48.163**	**.96617**	**.98535**	**.97292**	**.97234**	**48.372**	**.97407**
Stddev	.00224	.203	.00058	.00031	.00233	.00431	.103	.00109
%RSD	.23839	.42212	.05955	.03116	.23965	.44278	.21319	.11184
#1	.93777	48.019	.96658	.98513	.97128	.96929	48.299	.97330
#2	.94094	48.307	.96576	.98556	.97457	.97538	48.445	.97484
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.9575**	**.96684**	**.96608**	**.93900**	**48.546**	**48.308**	**.94884**	**47.134**
Stddev	.0169	.00007	.00273	.00206	.068	.129	.00430	.137
%RSD	1.769	.00741	.28251	.21962	.13975	.26759	.45360	.29077
#1	.9455	.96689	.96415	.93755	48.594	48.217	.94579	47.037
#2	.9695	.96679	.96801	.94046	48.498	48.400	.95188	47.231
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.95932**	**.99303**	**48.601**	**.96631**	z *****	**.97212**	**24.42**	**.96334**
Stddev	.00153	.00453	.115	.00187	-----	.00040	.03	.00612
%RSD	.15913	.45644	.23618	.19399	-----	.04108	.1188	.63523
#1	.95824	.98983	48.519	.96499	z 9106.	.97240	24.40	.96767
#2	.96040	.99624	48.682	.96764	z 9109.	.97184	24.44	.95902
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 19:39:12 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96278	9.5032	.97208	.96118	.9222	.97079	.97499	.97378
Stddev	.00345	.1196	.00269	.00275	.0100	.00081	.00395	.00293
%RSD	.35792	1.2587	.27622	.28639	1.089	.08386	.40553	.30090
#1	.96522	9.4186	.97018	.95924	.9293	.97022	.97219	.97171
#2	.96035	9.5878	.97397	.96313	.9151	.97137	.97779	.97585
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0032	.9045
Stddev	.0002	.0104
%RSD	.01729	1.151
#1	1.0031	.8971
#2	1.0033	.9118
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3239.3	2774.0	56721.	2653.2
Stddev	.6	.8	30.	9.3
%RSD	.01937	.02938	.05262	.35149
#1	3238.9	2774.6	56742.	2659.8
#2	3239.7	2773.4	56700.	2646.6

Sample Name: CCB-6615058 Acquired: 8/16/2021 19:42:53 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.01078**	**.00174**	**-.00081**	**.00012**	**.00006**	**.00116**	**-.00010**
Stddev	.00018	.00795	.00143	.00009	.00001	.00002	.00151	.00019
%RSD	245.91	73.782	82.324	11.463	7.1422	42.960	130.35	179.98
#1	.00020	.00516	.00073	-.00075	.00012	.00004	.00009	.00003
#2	-.00005	.01641	.00275	-.00088	.00011	.00007	.00222	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0137**	**.00003**	**.00007**	**.00005**	**.00466**	**-.04317**	**-.00296**	**.00138**
Stddev	.0263	.00014	.00034	.00019	.00249	.03023	.00003	.00166
%RSD	191.5	496.00	513.17	347.64	53.484	70.037	.90280	119.86
#1	.0049	-.00007	.00031	-.00008	.00290	-.02179	-.00295	.00255
#2	-.0323	.00012	-.00017	.00019	.00642	-.06455	-.00298	.00021
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00005**	**.00414**	**.00877**	**-.00025**	z *****	**-.00008**	**-.0066**	**-.00054**
Stddev	.00003	.00121	.00407	.00009	-----	.00015	.0051	.00094
%RSD	62.407	29.337	46.399	34.292	-----	187.39	76.80	173.79
#1	-.00003	.00500	.00589	-.00032	z 141.1	.00003	-.0030	-.00121
#2	-.00007	.00328	.01165	-.00019	z 141.5	-.00018	-.0102	.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 19:42:53 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00156**	**-.00318**	**-.00030**	**-.00002**	**-.0040**	**.00030**	**.00006**	**-.00023**
Stddev	.00429	.01654	.00006	.00006	.0228	.00035	.00062	.00004
%RSD	274.74	520.22	21.686	322.74	574.5	117.34	1062.0	15.432
#1	-.00147	-.01488	-.00025	-.00006	-.0200	.00005	.00050	-.00021
#2	.00459	.00852	-.00035	.00003	.0121	.00054	-.00038	-.00026
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00042**	**.0004**
Stddev	.00006	.0026
%RSD	14.238	661.3
#1	.00046	.0022
#2	.00038	-.0015
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3782.8**	**2880.8**	**60480.**	**2692.5**
Stddev	13.2	8.3	132.	6.1
%RSD	.34864	.28964	.21797	.22514
#1	3773.4	2874.9	60387.	2696.7
#2	3792.1	2886.7	60574.	2688.2

Sample Name: CCVL-6615375 Acquired: 8/16/2021 19:46:49 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00548**	**.18937**	**.01364**	**.01764**	**.00211**	**.00200**	**.48952**	**.00193**
Stddev	.00006	.00862	.00062	.00031	.00000	.00000	.00065	.00002
%RSD	1.1611	4.5521	4.5729	1.7327	.11468	.17629	.13193	.92981
#1	.00553	.19547	.01320	.01785	.00211	.00200	.48998	.00195
#2	.00544	.18328	.01408	.01742	.00211	.00199	.48906	.00192
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0279**	**.00375**	**.00403**	**.00903**	**.04477**	**.41777**	**.02371**	**.19173**
Stddev	.0007	.00002	.00002	.00035	.00084	.03015	.00145	.00753
%RSD	2.629	.41504	.41756	3.8981	1.8770	7.2160	6.0985	3.9301
#1	-.0284	.00376	.00404	.00878	.04537	.39645	.02269	.18640
#2	-.0274	.00374	.00402	.00928	.04418	.43908	.02474	.19705
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00306**	**.00782**	**1.0011**	**.00927**	z *****	**.00898**	**.1813**	**.02032**
Stddev	.00004	.00004	.0015	.00009	-----	.00088	.0047	.00089
%RSD	1.1817	.46376	.14572	.99056	-----	9.7515	2.615	4.3853
#1	.00308	.00779	1.0022	.00921	z 138.9	.00836	.1779	.01969
#2	.00303	.00784	1.0001	.00934	z 140.0	.00960	.1846	.02095
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 19:46:49 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01992	.42529	.00843	.00472	-.0156	.00469	.01837	.00445
Stddev	.00164	.01859	.00066	.00003	.0041	.00012	.00020	.00005
%RSD	8.2128	4.3703	7.8335	.59224	26.02	2.5860	1.0913	1.1525
#1	.02108	.41214	.00796	.00470	-.0185	.00478	.01851	.00449
#2	.01876	.43843	.00889	.00474	-.0127	.00461	.01822	.00442
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00949	.0020
Stddev	.00008	.0018
%RSD	.86788	89.93
#1	.00955	.0007
#2	.00943	.0033
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3758.2	2882.2	60618.	2714.5
Stddev	3.1	4.6	169.	14.6
%RSD	.08168	.15824	.27959	.53621
#1	3756.1	2878.9	60738.	2724.7
#2	3760.4	2885.4	60498.	2704.2

Sample Name: 480-188312-E-1-A Acquired: 8/16/2021 19:50:43 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00031**	**.09212**	**.00717**	**.11753**	**1.4592**
Stddev	.00009	.00548	.00190	.00052	.0017
%RSD	30.175	5.9496	26.454	.43900	.11571
#1	-.00038	.08825	.00583	.11716	1.4604
#2	-.00025	.09600	.00851	.11789	1.4580
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**889.68**	**-.00002**	**.0194**	**.00017**
Stddev	.00008	3.42	.00007	.0090	.00023
%RSD	120.60	.38444	354.58	46.60	131.94
#1	-.00012	892.10	.00003	.0130	.00033
#2	-.00001	887.26	-.00007	.0258	.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00021**	**.00570**	**.01331**	**112.08**	**.56504**
Stddev	.00007	.00077	.00134	.99	.00089
%RSD	34.687	13.456	10.059	.88104	.15763
#1	.00027	.00624	.01236	112.78	.56567
#2	.00016	.00516	.01425	111.38	.56441
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188312-E-1-A Acquired: 8/16/2021 19:50:43 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01522**	**-.00297**	**.07975**	**475.44**	**.01018**
Stddev	.00189	.00001	.00020	1.86	.00022
%RSD	12.398	.34713	.25207	.39085	2.1140
#1	.01656	-.00296	.07961	476.76	.01002
#2	.01389	-.00298	.07990	474.13	.01033
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00170**	**13.59**	**-.00496**	**-.01672**
Stddev	-----	.00011	.00	.00137	.00265
%RSD	-----	6.6682	.0090	27.640	15.861
#1	z 475.5	-.00178	13.59	-.00399	-.01860
#2	z 472.0	-.00162	13.59	-.00593	-.01485
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.16832**	**.00074**	**6.1284**	**.0050**	**.00366**
Stddev	.02995	.00095	.0277	.0104	.00002
%RSD	17.795	128.84	.45214	207.7	.62170
#1	.14714	.00007	6.1479	-.0023	.00365
#2	.18951	.00141	6.1088	.0124	.00368
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188312-E-1-A Acquired: 8/16/2021 19:50:43 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00082**	**-.00001**	**.00099**	**.0003**
Stddev	.00132	.00020	.00055	.0009
%RSD	161.63	1853.3	55.738	283.3
#1	-.00012	.00013	.00138	-.0003
#2	.00175	-.00015	.00060	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2742.8**	**2419.9**	**50103.**	**2609.8**
Stddev	4.5	1.1	71.	1.2
%RSD	.16499	.04480	.14093	.04430
#1	2746.0	2420.7	50153.	2609.0
#2	2739.6	2419.2	50053.	2610.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	73.008%	84.428%	82.919%	96.375%
Range				

Sample Name: 480-188312-E-2-A Acquired: 8/16/2021 19:54:57 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00016**	**.04555**	**.01057**	**.08109**	**.06090**
Stddev	.00008	.00627	.00004	.00078	.00013
%RSD	51.493	13.773	.39610	.96564	.21205
#1	-.00021	.04111	.01060	.08053	.06080
#2	-.00010	.04998	.01054	.08164	.06099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**17.064**	**-.00004**	**-.0253**	**-.00031**
Stddev	.00008	.124	.00009	.0130	.00025
%RSD	123.80	.72392	241.07	51.39	80.699
#1	-.00013	17.152	.00003	-.0161	-.00014
#2	-.00001	16.977	-.00010	-.0345	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00059**	**.00002**	**.88197**	**38.417**	**.13874**
Stddev	.00029	.00041	.01261	.190	.00142
%RSD	49.449	2021.1	1.4300	.49555	1.0264
#1	.00080	.00031	.89089	38.551	.13773
#2	.00039	-.00027	.87306	38.282	.13975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188312-E-2-A Acquired: 8/16/2021 19:54:57 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.12372**	**.00643**	**.10605**	**344.84**	**.01120**
Stddev	.00070	.00001	.00022	1.46	.00004
%RSD	.56692	.17537	.20839	.42395	.35697
#1	.12422	.00644	.10589	345.88	.01123
#2	.12323	.00642	.10621	343.81	.01117
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00090**	**86.43**	**-.00149**	**-.00951**
Stddev	-----	.00066	.01	.00218	.00169
%RSD	-----	73.027	.0061	146.20	17.756
#1	z 183.0	.00043	86.43	.00005	-.00832
#2	z 182.7	.00136	86.43	-.00303	-.01071
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.028**	**-.00086**	**.50071**	**-.0012**	**.00058**
Stddev	.135	.00037	.00053	.0148	.00005
%RSD	.95886	42.837	.10515	1188.	8.7493
#1	14.123	-.00060	.50108	.0092	.00055
#2	13.933	-.00112	.50033	-.0117	.00062
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188312-E-2-A Acquired: 8/16/2021 19:54:57 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00142**	**.00182**	**-.00003**	**.0038**
Stddev	.00129	.00007	.00024	.0001
%RSD	90.771	3.6572	904.46	3.102
#1	.00051	.00187	.00014	.0039
#2	.00234	.00177	-.00019	.0038
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3169.8**	**2687.8**	**54761.**	**2670.5**
Stddev	4.8	1.4	13.	28.6
%RSD	.15007	.05026	.02410	1.0720
#1	3166.4	2686.8	54771.	2650.3
#2	3173.2	2688.7	54752.	2690.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.373%	93.771%	90.627%	98.617%
Range				

Sample Name: 680-202683-A-9-A Acquired: 8/16/2021 19:58:53 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**.02892**	**-.00172**	**.05229**	**.00546**
Stddev	.00054	.01352	.00159	.00027	.00001
%RSD	1475.0	46.744	92.344	.52573	.14028
#1	-.00042	.01936	-.00285	.05209	.00546
#2	.00035	.03847	-.00060	.05248	.00545
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**35.550**	**-.00001**	**.0003**	**-.00015**
Stddev	.00002	.236	.00028	.0236	.00010
%RSD	376.68	.66283	4440.2	6916.	64.079
#1	-.00001	35.716	-.00021	-.0164	-.00022
#2	.00002	35.383	.00019	.0170	-.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.00012**	**1.1866**	**1.8618**	**-.00227**
Stddev	.00016	.00012	.0164	.0030	.00031
%RSD	148.12	97.625	1.3796	.16308	13.849
#1	.00022	.00021	1.1982	1.8596	-.00205
#2	-.00001	.00004	1.1751	1.8639	-.00250
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-9-A Acquired: 8/16/2021 19:58:53 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.305**	**.25308**	**-.00255**	**43.396**	**.00009**
Stddev	.063	.00105	.00003	.209	.00002
%RSD	.36619	.41650	1.3061	.48150	26.015
#1	17.350	.25383	-.00253	43.544	.00007
#2	17.260	.25233	-.00257	43.249	.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00030**	**12.02**	**-.00010**	**-.00731**
Stddev	-----	.00079	.02	.00183	.00567
%RSD	-----	261.65	.1735	1840.0	77.482
#1	z 159.4	.00086	12.00	.00120	-.00331
#2	z 160.4	-.00026	12.03	-.00139	-.01132
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.6646**	**-.00119**	**.13242**	**-.0083**	**.00021**
Stddev	.0164	.00023	.00023	.0004	.00023
%RSD	.44614	19.234	.17685	5.214	109.69
#1	3.6762	-.00103	.13259	-.0086	.00005
#2	3.6530	-.00136	.13226	-.0080	.00037
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-9-A Acquired: 8/16/2021 19:58:53 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**-.00014**	**.00540**	**.0005**
Stddev	.00024	.00010	.00005	.0012
%RSD	65.663	73.030	1.0136	225.1
#1	.00054	-.00007	.00536	.0014
#2	.00020	-.00022	.00544	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3447.3**	**2775.3**	**58171.**	**2711.5**
Stddev	7.1	8.1	223.	35.0
%RSD	.20530	.29163	.38282	1.2908
#1	3452.3	2781.1	58013.	2686.7
#2	3442.3	2769.6	58328.	2736.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.759%	96.827%	96.270%	100.13%
Range				

Sample Name: 680-202683-A-10-A Acquired: 8/16/2021 20:02:44 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.22629**	**-.00123**	**.02153**	**.00667**
Stddev	.00015	.01135	.00180	.00039	.00000
%RSD	785.17	5.0141	146.66	1.8194	.02133
#1	-.00008	.23431	.00005	.02125	.00667
#2	.00012	.21826	-.00250	.02181	.00668
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00007**	**20.533**	**.00002**	**-.0175**	**.00011**
Stddev	.00004	.034	.00003	.0161	.00003
%RSD	54.969	.16399	172.13	91.95	25.292
#1	-.00004	20.557	.00004	-.0061	.00009
#2	-.00010	20.509	-.00000	-.0288	.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00068**	**.00587**	**.52064**	**1.3704**	**-.00192**
Stddev	.00004	.00012	.00317	.0045	.00126
%RSD	6.4824	2.0376	.60793	.32666	65.291
#1	.00065	.00579	.52288	1.3672	-.00281
#2	.00071	.00596	.51841	1.3735	-.00104
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-10-A Acquired: 8/16/2021 20:02:44 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**14.989**	**.08674**	**-.00381**	**35.298**	**.00012**
Stddev	.118	.00067	.00010	.106	.00002
%RSD	.78631	.77463	2.6151	.30003	13.788
#1	14.906	.08626	-.00374	35.373	.00011
#2	15.073	.08721	-.00388	35.223	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00127**	**8.867**	**.00041**	**.00025**
Stddev	-----	.00027	.005	.00292	.00124
%RSD	-----	21.026	.0540	714.30	485.32
#1	z 155.5	.00146	8.863	-.00165	-.00062
#2	z 154.9	.00108	8.870	.00247	.00113
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7077**	**-.00055**	**.09262**	**-.0088**	**.00434**
Stddev	.0290	.00063	.00053	.0014	.00040
%RSD	.78284	115.58	.57150	15.96	9.2769
#1	3.7282	-.00010	.09299	-.0098	.00406
#2	3.6871	-.00100	.09224	-.0078	.00463
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-10-A Acquired: 8/16/2021 20:02:44 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00110**	**.00037**	**.00414**	**.0006**
Stddev	.00107	.00004	.00022	.0010
%RSD	97.926	11.059	5.3631	170.7
#1	.00034	.00034	.00429	.0013
#2	.00185	.00040	.00398	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3492.3**	**2788.5**	**58636.**	**2736.5**
Stddev	3.0	3.4	222.	.2
%RSD	.08534	.12333	.37844	.00615
#1	3494.4	2790.9	58793.	2736.6
#2	3490.2	2786.0	58479.	2736.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.957%	97.285%	97.040%	101.05%
Range				

Sample Name: 680-202683-A-11-A Acquired: 8/16/2021 20:06:35 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00066**	**.02198**	**-.00231**	**.02140**	**.01165**
Stddev	.00007	.00731	.00175	.00049	.00000
%RSD	11.162	33.267	75.820	2.3045	.03559
#1	.00071	.02715	-.00107	.02175	.01164
#2	.00061	.01681	-.00355	.02105	.01165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**15.288**	**.00002**	**.0154**	**-.00008**
Stddev	.00002	.063	.00005	.0188	.00005
%RSD	98.887	.41060	288.42	121.7	54.772
#1	-.00003	15.244	-.00002	.0022	-.00005
#2	-.00001	15.332	.00005	.0287	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00005**	**.00053**	**.31503**	**1.4981**	**-.00098**
Stddev	.00027	.00017	.00281	.0150	.00041
%RSD	558.04	33.044	.89135	.99839	41.394
#1	-.00024	.00065	.31305	1.4875	-.00127
#2	.00014	.00041	.31702	1.5086	-.00070
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-11-A Acquired: 8/16/2021 20:06:35 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.167**	**.06713**	**-.00405**	**3.9457**	**-.00007**
Stddev	.086	.00059	.00021	.0022	.00005
%RSD	.65670	.87150	5.0628	.05573	70.147
#1	13.105	.06671	-.00391	3.9473	-.00004
#2	13.228	.06754	-.00420	3.9442	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00007**	**7.431**	**-.00127**	**-.00408**
Stddev	-----	.00011	.024	.00018	.00121
%RSD	-----	150.05	.3178	13.932	29.509
#1	z 163.1	-.00000	7.448	-.00114	-.00494
#2	z 162.6	.00015	7.415	-.00139	-.00323
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.6855**	**-.00116**	**.05220**	**-.0100**	**.00007**
Stddev	.0142	.00038	.00004	.0109	.00003
%RSD	.84047	33.115	.08559	108.7	40.765
#1	1.6955	-.00143	.05217	-.0177	.00005
#2	1.6755	-.00089	.05223	-.0023	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-11-A Acquired: 8/16/2021 20:06:35 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00013**	**-.00001**	**.00483**	**.0005**
Stddev	.00029	.00009	.00018	.0017
%RSD	216.76	809.28	3.8075	336.1
#1	.00034	-.00008	.00470	.0017
#2	-.00007	.00006	.00496	-.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3609.0**	**2831.1**	**59856.**	**2745.7**
Stddev	1.4	1.5	178.	6.8
%RSD	.04015	.05156	.29729	.24645
#1	3608.0	2832.1	59982.	2750.5
#2	3610.1	2830.0	59730.	2740.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	96.064%	98.772%	99.059%	101.39%
Range				

Sample Name: 680-202683-A-12-A Acquired: 8/16/2021 20:10:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.06364**	**-.00131**	**.03737**	**.01983**
Stddev	.00026	.01266	.00099	.00036	.00000
%RSD	105.81	19.885	75.351	.97281	.00218
#1	.00006	.05469	-.00061	.03763	.01983
#2	.00043	.07259	-.00202	.03711	.01983
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**56.858**	**.00023**	**.0079**	**-.00004**
Stddev	.00013	.291	.00008	.0007	.00016
%RSD	389.98	.51187	33.257	9.233	439.32
#1	-.00012	57.064	.00017	.0084	-.00015
#2	.00006	56.652	.00028	.0074	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.00068**	**.21716**	**3.4748**	**-.00045**
Stddev	.00017	.00006	.00568	.0060	.00044
%RSD	29.741	8.8273	2.6177	.17166	98.147
#1	.00069	.00064	.22118	3.4791	-.00014
#2	.00045	.00073	.21314	3.4706	-.00076
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-12-A Acquired: 8/16/2021 20:10:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**56.166**	**.10090**	**-.00398**	**8.1386**	**-.00010**
Stddev	.194	.00030	.00027	.0432	.00011
%RSD	.34456	.30168	6.8498	.53084	111.79
#1	56.029	.10068	-.00379	8.1691	-.00002
#2	56.303	.10111	-.00417	8.1080	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00009**	**37.31**	**-.00160**	**-.00547**
Stddev	-----	.00031	.01	.00095	.00089
%RSD	-----	366.86	.0403	59.160	16.350
#1	z 170.7	.00031	37.32	-.00227	-.00610
#2	z 170.7	-.00014	37.30	-.00093	-.00484
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.3609**	**-.00080**	**.18788**	**.0007**	**.00178**
Stddev	.0382	.00027	.00098	.0079	.00004
%RSD	.71188	33.764	.52218	1123.	2.1226
#1	5.3879	-.00061	.18857	-.0049	.00180
#2	5.3339	-.00099	.18718	.0063	.00175
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-12-A Acquired: 8/16/2021 20:10:27 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00075**	**-.00006**	**.00564**	**.0009**
Stddev	.00030	.00019	.00025	.0005
%RSD	40.480	313.98	4.4144	56.23
#1	.00097	-.00019	.00581	.0006
#2	.00054	.00007	.00546	.0013
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3415.4**	**2740.6**	**57949.**	**2713.5**
Stddev	.0	.5	67.	15.6
%RSD	.00086	.01669	.11555	.57388
#1	3415.4	2740.3	57902.	2702.4
#2	3415.4	2740.9	57997.	2724.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.910%	95.615%	95.904%	100.20%
Range				

Sample Name: 680-202683-A-13-A Acquired: 8/16/2021 20:14:18 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00005**	**.06082**	**-.00123**	**.02659**	**.00705**
Stddev	.00053	.00430	.00018	.00029	.00001
%RSD	987.44	7.0741	14.407	1.1091	.18290
#1	-.00032	.05778	-.00136	.02680	.00706
#2	.00043	.06387	-.00111	.02638	.00704
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**14.754**	**.00002**	**.0115**	**.00010**
Stddev	.00008	.017	.00012	.0027	.00001
%RSD	2862.7	.11267	663.45	23.26	6.7748
#1	.00006	14.742	-.00006	.0096	.00011
#2	-.00005	14.765	.00010	.0133	.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.00085**	**.52041**	**1.1873**	**-.00226**
Stddev	.00007	.00019	.00272	.0294	.00113
%RSD	30.593	22.399	.52324	2.4779	50.121
#1	.00017	.00098	.51848	1.2081	-.00306
#2	.00027	.00071	.52233	1.1665	-.00146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-13-A Acquired: 8/16/2021 20:14:18 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.3685**	**.07619**	**-.00406**	**15.579**	**.00014**
Stddev	.0102	.00002	.00010	.011	.00008
%RSD	.13818	.02169	2.5376	.07361	56.791
#1	7.3757	.07620	-.00413	15.587	.00020
#2	7.3613	.07618	-.00398	15.571	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00047**	**5.500**	**-.00117**	**-.00529**
Stddev	-----	.00014	.015	.00089	.00380
%RSD	-----	29.504	.2714	76.274	71.947
#1	z 150.7	.00056	5.489	-.00180	-.00798
#2	z 149.5	.00037	5.510	-.00054	-.00260
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.9739**	**-.00094**	**.04619**	**-.0046**	**.00139**
Stddev	.0157	.00019	.00010	.0079	.00006
%RSD	.52906	20.138	.22453	172.1	4.4810
#1	2.9628	-.00107	.04611	-.0102	.00134
#2	2.9850	-.00080	.04626	.0010	.00143
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-13-A Acquired: 8/16/2021 20:14:18 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00016**	**.00005**	**.00379**	**-.0005**
Stddev	.00038	.00010	.00045	.0008
%RSD	247.61	201.42	11.795	150.6
#1	-.00012	-.00002	.00411	-.0011
#2	.00043	.00012	.00348	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3593.6**	**2827.8**	**59638.**	**2740.0**
Stddev	1.1	.7	52.	4.0
%RSD	.03154	.02330	.08654	.14448
#1	3592.8	2827.3	59601.	2742.8
#2	3594.5	2828.3	59674.	2737.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.654%	98.658%	98.698%	101.18%
Range				

Sample Name: 680-202683-A-14-A Acquired: 8/16/2021 20:18:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**.01229**	**-.00082**	**.09404**	**.01227**
Stddev	.00052	.00399	.00123	.00036	.00002
%RSD	177.66	32.442	149.62	.38653	.12418
#1	.00066	.00947	-.00169	.09430	.01228
#2	-.00007	.01511	.00005	.09378	.01226
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**40.696**	**-.00003**	**.0123**	**-.00012**
Stddev	.00001	.045	.00002	.0175	.00000
%RSD	431.83	.11163	89.739	141.6	3.4986
#1	-.00000	40.664	-.00005	.0247	-.00012
#2	.00001	40.728	-.00001	-.0000	-.00012
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**.00050**	**.05341**	**2.1909**	**.00157**
Stddev	.00009	.00040	.00434	.0048	.00043
%RSD	501.70	80.959	8.1324	.21918	27.704
#1	.00004	.00078	.05034	2.1875	.00126
#2	-.00008	.00021	.05648	2.1943	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-14-A Acquired: 8/16/2021 20:18:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.351**	**.01186**	**-.00406**	**14.385**	**.00018**
Stddev	.016	.00006	.00009	.060	.00015
%RSD	.15454	.52842	2.2463	.41465	84.836
#1	10.363	.01191	-.00412	14.343	.00028
#2	10.340	.01182	-.00399	14.428	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00009**	**25.86**	**-.00036**	**-.00458**
Stddev	-----	.00015	.03	.00132	.00137
%RSD	-----	163.03	.1078	367.12	29.896
#1	z 157.4	.00001	25.88	-.00129	-.00361
#2	z 157.2	-.00020	25.84	.00057	-.00555
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.7494**	**-.00157**	**.83507**	**.0024**	**.00008**
Stddev	.0110	.00038	.00364	.0062	.00007
%RSD	.62586	24.125	.43532	256.9	93.732
#1	1.7571	-.00130	.83250	.0068	.00013
#2	1.7416	-.00184	.83764	-.0020	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 680-202683-A-14-A Acquired: 8/16/2021 20:18:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00026**	**-.00003**	**.00391**	**.0003**
Stddev	.00121	.00033	.00021	.0011
%RSD	467.60	1285.9	5.3889	369.3
#1	-.00060	-.00026	.00376	.0011
#2	.00111	.00021	.00406	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3522.1**	**2793.2**	**59452.**	**2762.2**
Stddev	2.4	5.7	18.	14.2
%RSD	.06715	.20547	.03026	.51510
#1	3520.4	2789.1	59465.	2772.2
#2	3523.8	2797.2	59439.	2752.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.749%	97.449%	98.390%	102.00%
Range				

Sample Name: MB 480-592922/1-A Acquired: 8/16/2021 20:22:01 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00047**	**.02261**	**-.00214**	**.00263**	**.00002**
Stddev	.00022	.00483	.00015	.00020	.00000
%RSD	45.757	21.352	7.1087	7.5028	8.6097
#1	.00062	.01919	-.00203	.00276	.00002
#2	.00032	.02602	-.00225	.00249	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**.07064**	**-.00013**	**-.0212**	**.00008**
Stddev	.00006	.00233	.00003	.0161	.00005
%RSD	2061.8	3.3013	21.988	76.25	58.351
#1	-.00004	.07229	-.00011	-.0098	.00011
#2	.00005	.06899	-.00015	-.0326	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00007**	**-.00245**	**-.07956**	**-.00264**
Stddev	.00017	.00053	.00126	.02337	.00121
%RSD	187.04	810.96	51.281	29.371	45.942
#1	-.00021	.00044	-.00156	-.09608	-.00178
#2	.00003	-.00031	-.00334	-.06304	-.00350
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592922/1-A Acquired: 8/16/2021 20:22:01 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00219**	F **-.00333**	**-.00437**	**.01537**	**-.00003**
Stddev	.00070	.00003	.00010	.00165	.00017
%RSD	31.952	.77511	2.3453	10.739	574.40
#1	.00169	-.00331	-.00430	.01420	.00009
#2	.00268	-.00334	-.00444	.01654	-.00015
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00037**	**-.0046**	**-.00109**	**-.00393**
Stddev	-----	.00013	.0049	.00104	.00156
%RSD	-----	35.687	107.5	95.623	39.623
#1	z 135.4	.00028	-.0011	-.00182	-.00503
#2	z 136.4	.00047	-.0081	-.00035	-.00283
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00680**	**-.00047**	**.00031**	**-.0073**	**-.00051**
Stddev	.01501	.00026	.00007	.0061	.00003
%RSD	220.86	54.691	20.844	82.77	6.7521
#1	-.01741	-.00029	.00027	-.0116	-.00054
#2	.00382	-.00065	.00036	-.0030	-.00049
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592922/1-A Acquired: 8/16/2021 20:22:01 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00018**	**-.00024**	**.00145**	**.0009**
Stddev	.00074	.00007	.00018	.0035
%RSD	417.98	30.516	12.711	377.3
#1	-.00070	-.00019	.00132	-.0015
#2	.00035	-.00029	.00158	.0034
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3826.4**	**2907.5**	**61913.**	**2769.0**
Stddev	.3	.3	64.	9.8
%RSD	.00688	.01161	.10353	.35298
#1	3826.5	2907.7	61958.	2776.0
#2	3826.2	2907.2	61868.	2762.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.85%	101.44%	102.46%	102.25%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 20:25:58 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.93574	47.916	.96489	.98554	.96854	.97261	48.389	.97371
Stddev	.00153	.049	.00488	.00256	.00176	.00141	.099	.00145
%RSD	.16341	.10237	.50621	.26004	.18188	.14459	.20556	.14927
#1	.93466	47.950	.96835	.98735	.96729	.97161	48.319	.97474
#2	.93683	47.881	.96144	.98373	.96978	.97360	48.460	.97268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9693	.96357	.96301	.93426	48.040	48.337	.93778	46.766
Stddev	.0038	.00046	.00152	.00144	.249	.109	.00011	.028
%RSD	.3965	.04762	.15787	.15390	.51731	.22647	.01196	.06047
#1	.9666	.96325	.96193	.93324	47.864	48.259	.93770	46.786
#2	.9720	.96390	.96408	.93528	48.216	48.414	.93786	46.746
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	.95237	.99219	48.369	.96389	z *****	.97045	24.44	.96836
Stddev	.00047	.00160	.090	.00167	-----	.00190	.07	.00272
%RSD	.04963	.16082	.18624	.17284	-----	.19558	.3070	.28117
#1	.95204	.99107	48.305	.96271	z 9100.	.96911	24.49	.97028
#2	.95271	.99332	48.432	.96507	z 9128.	.97179	24.38	.96643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 20:25:58 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.95964	9.2510	.96943	.95758	.9650	.96681	.97389	.97103
Stddev	.00207	.0707	.00001	.00130	.0209	.00189	.00445	.00029
%RSD	.21601	.76425	.00124	.13546	2.170	.19557	.45665	.02962
#1	.96111	9.2010	.96944	.95666	.9798	.96547	.97074	.97083
#2	.95818	9.3010	.96942	.95850	.9502	.96814	.97703	.97123
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.99468	.9409
Stddev	.00204	.0005
%RSD	.20514	.0567
#1	.99324	.9405
#2	.99612	.9413
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3254.9	2779.0	57157.	2683.8
Stddev	1.8	8.5	74.	16.3
%RSD	.05575	.30482	.12918	.60913
#1	3253.6	2773.0	57209.	2695.3
#2	3256.2	2785.0	57104.	2672.2

Sample Name: CCB-6615058 Acquired: 8/16/2021 20:29:39 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00520**	**.00144**	**-.00108**	**.00007**	**-.00002**	**.00038**	**.00004**
Stddev	.00008	.01183	.00142	.00038	.00001	.00003	.00122	.00002
%RSD	21.676	227.56	98.579	35.226	11.903	195.77	322.34	38.101
#1	.00041	-.00317	.00044	-.00081	.00008	.00001	.00124	.00005
#2	.00030	.01357	.00244	-.00134	.00006	-.00004	-.00048	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0077**	**-.00006**	**.00009**	**.00004**	**.00468**	**-.10501**	**-.00190**	**.00043**
Stddev	.0176	.00005	.00025	.00024	.00233	.00122	.00039	.00053
%RSD	229.3	74.786	280.44	543.78	49.759	1.1588	20.724	122.91
#1	-.0048	-.00003	.00026	.00021	.00303	-.10587	-.00218	.00006
#2	.0202	-.00010	-.00009	-.00012	.00632	-.10415	-.00162	.00081
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00018**	**.00407**	**.00022**	**-.00000**	z *****	**.00041**	**-.0128**	**-.00005**
Stddev	.00001	.00118	.00287	.00024	-----	.00097	.0007	.00363
%RSD	6.1276	29.083	1317.1	16101.	-----	233.40	5.155	7615.3
#1	-.00018	.00490	.00225	-.00017	z 139.8	.00110	-.0123	.00252
#2	-.00019	.00323	-.00181	.00017	z 139.5	-.00027	-.0132	-.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 20:29:39 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00104**	**-.01633**	**-.00058**	**.00009**	**-.0055**	**.00035**	**-.00060**	**-.00009**
Stddev	.00284	.00491	.00057	.00001	.0030	.00014	.00052	.00002
%RSD	272.15	30.053	99.662	15.073	55.45	38.999	86.053	23.931
#1	-.00305	-.01980	-.00017	.00008	-.0076	.00045	-.00024	-.00008
#2	.00096	-.01286	-.00098	.00010	-.0033	.00026	-.00097	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00020**	**-.0005**
Stddev	.00039	.0009
%RSD	194.91	184.9
#1	.00048	.0001
#2	-.00008	-.0011
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3785.9**	**2880.2**	**61019.**	**2700.1**
Stddev	3.9	5.3	192.	7.3
%RSD	.10406	.18537	.31464	.26986
#1	3783.1	2876.4	61155.	2694.9
#2	3788.7	2884.0	60883.	2705.2

Sample Name: CCVL-6615375 Acquired: 8/16/2021 20:33:35 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00591**	**.16528**	**.01290**	**.01729**	**.00210**	**.00188**	**.48542**	**.00189**
Stddev	.00019	.01605	.00026	.00019	.00001	.00001	.00080	.00002
%RSD	3.2134	9.7101	2.0341	1.0876	.69920	.72118	.16397	1.0689
#1	.00604	.17663	.01309	.01716	.00211	.00187	.48486	.00188
#2	.00577	.15393	.01272	.01743	.00209	.00189	.48599	.00191
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0081**	**.00370**	**.00393**	**.00897**	**.05159**	**.40357**	**.02553**	**.18652**
Stddev	.0297	.00004	.00019	.00053	.00453	.03845	.00176	.00119
%RSD	367.6	.99194	4.8407	5.8519	8.7855	9.5283	6.9100	.63584
#1	.0129	.00367	.00407	.00860	.04838	.43076	.02678	.18736
#2	-.0290	.00372	.00380	.00934	.05479	.37638	.02429	.18568
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00300**	**.00791**	**.98765**	**.00933**	z *****	**.00882**	**.1799**	**.02174**
Stddev	.00001	.00007	.00080	.00025	-----	.00005	.0033	.00095
%RSD	.27054	.86635	.08065	2.6623	-----	.60005	1.821	4.3633
#1	.00300	.00786	.98708	.00915	z 139.6	.00886	.1776	.02242
#2	.00299	.00796	.98821	.00950	z 140.4	.00879	.1822	.02107
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 20:33:35 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01824**	**.44056**	**.00801**	**.00474**	**-.0121**	**.00445**	**.01905**	**.00449**
Stddev	.00101	.00054	.00007	.00005	.0030	.00002	.00005	.00009
%RSD	5.5450	.12264	.87475	1.0744	24.61	.45913	.27488	1.9689
#1	.01752	.44094	.00796	.00478	-.0100	.00443	.01908	.00455
#2	.01895	.44018	.00805	.00470	-.0142	.00446	.01901	.00443
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00957**	**.0019**
Stddev	.00049	.0000
%RSD	5.1432	.7139
#1	.00991	.0019
#2	.00922	.0018
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3766.9**	**2882.3**	**60875.**	**2721.9**
Stddev	1.9	3.5	71.	16.0
%RSD	.04971	.12297	.11732	.58801
#1	3765.6	2879.8	60825.	2733.2
#2	3768.2	2884.8	60926.	2710.6

Sample Name: LCS 480-592922/2-A Acquired: 8/16/2021 20:37:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04678**	**9.7623**	**.19852**	**.19949**	**.21585**
Stddev	.00030	.0270	.00037	.00055	.00027
%RSD	.64708	.27692	.18611	.27554	.12329
#1	.04657	9.7431	.19826	.19988	.21566
#2	.04700	9.7814	.19878	.19910	.21603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20285**	**9.8333**	**.19864**	**-.0158**	**.18935**
Stddev	.00013	.0295	.00004	.0363	.00043
%RSD	.06641	.30045	.01894	230.1	.22677
#1	.20276	9.8542	.19866	-.0415	.18905
#2	.20295	9.8124	.19861	.0099	.18965
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19364**	**.18948**	**9.5488**	**9.7801**	**.18916**
Stddev	.00057	.00055	.0201	.0575	.00117
%RSD	.29462	.28929	.21003	.58840	.62082
#1	.19404	.18910	9.5630	9.8208	.18999
#2	.19324	.18987	9.5347	9.7394	.18833
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592922/2-A Acquired: 8/16/2021 20:37:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4895**	**.19456**	**.20519**	**9.9788**	**.19069**
Stddev	.0215	.00047	.00017	.0406	.00006
%RSD	.22640	.23999	.08120	.40657	.03369
#1	9.4743	.19423	.20508	10.008	.19065
#2	9.5046	.19489	.20531	9.9501	.19074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19480**	**9.710**	**.21087**	**.18671**
Stddev	-----	.00101	.027	.00121	.00168
%RSD	-----	.51867	.2772	.57538	.89791
#1	z 158.4	.19409	9.729	.21001	.18790
#2	z 158.8	.19552	9.691	.21173	.18553
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0937**	**.18959**	**.19938**	**.0149**	**.19663**
Stddev	.0219	.00016	.00102	.0088	.00049
%RSD	.24118	.08358	.51145	59.19	.24914
#1	9.1092	.18970	.20010	.0211	.19628
#2	9.0782	.18948	.19866	.0086	.19698
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592922/2-A Acquired: 8/16/2021 20:37:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19934**	**.19453**	**.19618**	**.0299**
Stddev	.00188	.00023	.00135	.0000
%RSD	.94531	.11792	.68713	.0086
#1	.20067	.19469	.19713	.0299
#2	.19801	.19436	.19522	.0299
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3571.6**	**2857.4**	**59853.**	**2749.1**
Stddev	.3	.5	169.	12.0
%RSD	.00885	.01880	.28196	.43520
#1	3571.8	2857.0	59972.	2740.7
#2	3571.4	2857.8	59734.	2757.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.068%	99.691%	99.054%	101.52%
Range				

Sample Name: 480-187937-C-1-D Acquired: 8/16/2021 20:41:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**.02714**	**.00076**	**.08239**	**.11333**
Stddev	.00005	.03096	.00171	.00018	.00031
%RSD	88.176	114.09	224.22	.21884	.27470
#1	.00002	.00524	-.00045	.08226	.11355
#2	.00010	.04903	.00197	.08252	.11311
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**179.87**	**.00020**	**-.0027**	**.00019**
Stddev	.00007	.25	.00000	.0014	.00018
%RSD	1158.4	.13708	1.3681	50.18	93.891
#1	-.00004	180.05	.00020	-.0017	.00006
#2	.00005	179.70	.00019	-.0037	.00032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.00084**	**1.8347**	**1.9464**	**.01350**
Stddev	.00011	.00014	.0166	.0063	.00007
%RSD	1892.1	16.885	.90345	.32464	.52718
#1	.00008	.00094	1.8464	1.9509	.01345
#2	-.00007	.00074	1.8230	1.9420	.01355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187937-C-1-D Acquired: 8/16/2021 20:41:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**96.933**	**.07475**	**-.00199**	**57.355**	**.00834**
Stddev	.073	.00007	.00009	.072	.00042
%RSD	.07496	.09571	4.3050	.12633	5.0950
#1	96.882	.07480	-.00193	57.304	.00804
#2	96.985	.07470	-.00205	57.407	.00864
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00002**	**39.45**	**-.00268**	**-.01228**
Stddev	-----	.00024	.03	.00045	.00233
%RSD	-----	1100.9	.0795	16.652	18.959
#1	z 189.4	-.00015	39.43	-.00300	-.01392
#2	z 189.5	.00019	39.47	-.00237	-.01063
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.5435**	**-.00071**	**.19602**	**-.0004**	**.00061**
Stddev	.0142	.00026	.00042	.0211	.00003
%RSD	.14859	36.346	.21383	4839.	4.5537
#1	9.5334	-.00053	.19573	-.0153	.00059
#2	9.5535	-.00090	.19632	.0145	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-187937-C-1-D Acquired: 8/16/2021 20:41:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**-.00053**	**.00076**	**.0013**
Stddev	.00146	.00012	.00077	.0013
%RSD	209.37	22.509	101.00	102.5
#1	.00173	-.00045	.00131	.0003
#2	-.00034	-.00061	.00022	.0022
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3183.3**	**2657.2**	**55689.**	**2680.2**
Stddev	2.3	4.4	55.	3.4
%RSD	.07076	.16576	.09940	.12577
#1	3184.9	2660.3	55650.	2677.8
#2	3181.7	2654.1	55728.	2682.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.732%	92.705%	92.163%	98.975%
Range				

Sample Name: 480-188016-B-2-C Acquired: 8/16/2021 20:45:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.04484**	**.00042**	**.01404**	**.01965**
Stddev	.00028	.01537	.00234	.00055	.00005
%RSD	127.37	34.288	559.60	3.8821	.26701
#1	.00042	.05571	.00207	.01443	.01961
#2	.00002	.03397	-.00123	.01366	.01969
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**40.156**	**-.00009**	**.0165**	**.00127**
Stddev	.00012	.045	.00004	.0326	.00001
%RSD	190.24	.11285	45.450	197.5	1.0156
#1	.00015	40.124	-.00012	.0396	.00126
#2	-.00002	40.188	-.00006	-.0065	.00127
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.06556**	**.00063**	**.39247**	**1.0332**	**.00235**
Stddev	.00019	.00061	.00274	.0215	.00082
%RSD	.28425	97.252	.69935	2.0796	35.035
#1	.06543	.00106	.39441	1.0484	.00293
#2	.06569	.00020	.39053	1.0180	.00177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-2-C Acquired: 8/16/2021 20:45:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.8858**	**.02658**	**-.00259**	**120.46**	**.12681**
Stddev	.0152	.00028	.00007	.02	.00006
%RSD	.31183	1.0703	2.7604	.01963	.05030
#1	4.8751	.02638	-.00264	120.44	.12686
#2	4.8966	.02678	-.00254	120.47	.12677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00037**	**11.48**	**.00003**	**-.00890**
Stddev	-----	.00012	.02	.00247	.00137
%RSD	-----	32.524	.1569	8159.9	15.427
#1	z 155.8	.00046	11.47	.00178	-.00793
#2	z 156.2	.00029	11.50	-.00172	-.00987
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.8289**	**-.00088**	**.27724**	**-.0119**	**.00050**
Stddev	.0307	.00042	.00046	.0158	.00022
%RSD	.80192	47.456	.16641	133.3	43.873
#1	3.8506	-.00118	.27757	-.0007	.00035
#2	3.8072	-.00058	.27691	-.0230	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-2-C Acquired: 8/16/2021 20:45:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00016**	**-.00006**	**.00617**	**.0005**
Stddev	.00069	.00019	.00063	.0023
%RSD	429.10	323.82	10.211	472.3
#1	.00065	.00008	.00662	.0022
#2	-.00033	-.00019	.00573	-.0012
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3355.9**	**2753.1**	**57414.**	**2721.9**
Stddev	3.0	5.8	89.	5.2
%RSD	.08914	.20923	.15435	.19195
#1	3358.0	2757.2	57476.	2718.2
#2	3353.8	2749.0	57351.	2725.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.326%	96.052%	95.017%	100.52%
Range				

Sample Name: 480-188016-B-3-C Acquired: 8/16/2021 20:48:53 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.02132**	**-.00065**	**.02987**	**.01895**
Stddev	.00052	.03649	.00065	.00020	.00002
%RSD	94.376	171.13	99.588	.67617	.10848
#1	.00018	.04713	-.00110	.03002	.01894
#2	.00092	-.00448	-.00019	.02973	.01896
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**77.722**	**.00032**	**-.0042**	**.00161**
Stddev	.00001	.002	.00003	.0307	.00007
%RSD	19.651	.00243	9.5616	736.2	4.3555
#1	.00003	77.720	.00030	-.0259	.00156
#2	.00004	77.723	.00034	.0175	.00166
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02823**	**.00148**	**.21348**	**2.1945**	**.00365**
Stddev	.00007	.00005	.00630	.0126	.00078
%RSD	.25789	3.1696	2.9507	.57372	21.334
#1	.02828	.00145	.21794	2.1856	.00421
#2	.02818	.00151	.20903	2.2034	.00310
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-3-C Acquired: 8/16/2021 20:48:53 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.9205**	**3.0162**	**-.00307**	**75.544**	**.01576**
Stddev	.0078	.0022	.00016	.056	.00010
%RSD	.09833	.07260	5.0572	.07475	.62218
#1	7.9150	3.0177	-.00318	75.584	.01569
#2	7.9260	3.0146	-.00296	75.504	.01583
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00033**	**10.68**	**-.00260**	**-.00942**
Stddev	-----	.00046	.01	.00027	.00059
%RSD	-----	139.11	.1090	10.409	6.3030
#1	z 161.9	.00001	10.67	-.00279	-.00984
#2	z 161.5	.00066	10.69	-.00240	-.00900
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.9994**	**-.00111**	**.47650**	**.0039**	**-.00026**
Stddev	.0234	.00095	.00026	.0086	.00020
%RSD	.46853	85.805	.05465	219.0	76.985
#1	4.9828	-.00179	.47668	-.0021	-.00012
#2	5.0159	-.00044	.47631	.0100	-.00040
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-3-C Acquired: 8/16/2021 20:48:53 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00067**	**-.00012**	**.00180**	**.0009**
Stddev	.00028	.00028	.00002	.0009
%RSD	42.226	231.00	.90786	93.60
#1	-.00047	.00008	.00178	.0015
#2	-.00087	-.00032	.00181	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3372.8**	**2757.7**	**57577.**	**2718.0**
Stddev	3.7	4.0	48.	7.3
%RSD	.11081	.14505	.08406	.26683
#1	3370.2	2754.9	57611.	2723.1
#2	3375.5	2760.6	57542.	2712.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.777%	96.213%	95.287%	100.37%
Range				

Sample Name: 480-188016-B-9-C Acquired: 8/16/2021 20:52:49 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00017**	**.01242**	**-.00156**	**.01066**	**.04248**
Stddev	.00023	.00152	.00039	.00029	.00006
%RSD	136.55	12.244	25.208	2.7322	.14921
#1	.00033	.01135	-.00184	.01045	.04252
#2	.00001	.01350	-.00129	.01086	.04243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**111.08**	**.00007**	**.0264**	**-.00015**
Stddev	.00013	.20	.00003	.0184	.00005
%RSD	221.70	.17713	45.319	69.52	31.732
#1	.00003	111.22	.00005	.0134	-.00018
#2	-.00015	110.94	.00009	.0394	-.00011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00052**	**-.00717**	**.84579**	**.00359**
Stddev	.00035	.00021	.00122	.00940	.00090
%RSD	64.873	40.471	17.076	1.1116	25.182
#1	.00079	.00067	-.00803	.85243	.00423
#2	.00029	.00037	-.00630	.83914	.00295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-9-C Acquired: 8/16/2021 20:52:49 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.214**	F **-.00406**	**-.00362**	**17.576**	**.00272**
Stddev	.071	.00003	.00025	.034	.00017
%RSD	.69841	.71043	6.8297	.19286	6.1909
#1	10.164	-.00404	-.00379	17.552	.00284
#2	10.265	-.00408	-.00344	17.600	.00260
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00088**	**14.69**	**-.00324**	**-.01113**
Stddev	-----	.00149	.00	.00021	.00416
%RSD	-----	169.32	.0069	6.3740	37.395
#1	z 163.3	-.00017	14.69	-.00339	-.00819
#2	z 162.9	.00193	14.69	-.00310	-.01407
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.3889**	**-.00067**	**.66112**	**-.0100**	**.00039**
Stddev	.0204	.00032	.00115	.0135	.00022
%RSD	.60347	48.025	.17337	135.3	57.543
#1	3.4033	-.00090	.66031	-.0004	.00023
#2	3.3744	-.00045	.66193	-.0195	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-9-C Acquired: 8/16/2021 20:52:49 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00126**	**-.00001**	**.00239**	**-.0002**
Stddev	.00130	.00025	.00027	.0012
%RSD	103.11	3943.4	11.315	505.5
#1	.00217	-.00019	.00258	.0006
#2	.00034	.00017	.00220	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3420.3**	**2757.2**	**58023.**	**2709.0**
Stddev	8.7	7.7	41.	2.9
%RSD	.25390	.28007	.07024	.10698
#1	3426.5	2762.6	58052.	2706.9
#2	3414.2	2751.7	57994.	2711.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.041%	96.193%	96.025%	100.04%
Range				

Sample Name: 480-188016-B-10-C Acquired: 8/16/2021 20:56:41 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**.01461**	**-.00190**	**.01730**	**.02592**
Stddev	.00019	.01328	.00131	.00011	.00002
%RSD	177.75	90.875	68.665	.65901	.08979
#1	.00024	.02400	-.00098	.01738	.02594
#2	-.00003	.00522	-.00283	.01722	.02591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**74.442**	**.00011**	**.0046**	**-.00002**
Stddev	.00007	.406	.00004	.0305	.00002
%RSD	90.576	.54572	40.412	664.1	86.335
#1	.00003	74.729	.00014	.0262	-.00003
#2	.00013	74.155	.00008	-.0170	-.00001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00289**	**.00035**	**.01068**	**.75692**	**.00206**
Stddev	.00027	.00014	.00411	.03063	.00067
%RSD	9.3055	41.714	38.474	4.0473	32.840
#1	.00270	.00024	.01359	.73526	.00253
#2	.00308	.00045	.00778	.77858	.00158
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-10-C Acquired: 8/16/2021 20:56:41 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.1024**	F **-.00392**	**-.00416**	**87.943**	**.00250**
Stddev	.0436	.00001	.00028	.707	.00005
%RSD	.71425	.32569	6.8165	.80418	2.1535
#1	6.0716	-.00393	-.00396	88.444	.00254
#2	6.1332	-.00391	-.00436	87.443	.00246
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00017**	**8.004**	**-.00095**	**-.01172**
Stddev	-----	.00063	.005	.00116	.00079
%RSD	-----	365.98	.0630	122.36	6.7711
#1	z 158.6	.00027	8.001	-.00177	-.01116
#2	z 158.9	-.00062	8.008	-.00013	-.01228
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.7864**	**-.00063**	**.34265**	**-.0078**	**.00018**
Stddev	.0384	.00145	.00100	.0015	.00018
%RSD	1.0156	230.26	.29146	19.05	101.41
#1	3.8136	-.00166	.34335	-.0089	.00031
#2	3.7592	.00040	.34194	-.0068	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-10-C Acquired: 8/16/2021 20:56:41 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00104**	**-.00018**	**-.00014**	**.0004**
Stddev	.00007	.00004	.00004	.0003
%RSD	6.4775	20.693	27.074	60.77
#1	.00109	-.00020	-.00017	.0006
#2	.00099	-.00015	-.00011	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3346.1**	**2749.7**	**57102.**	**2731.0**
Stddev	2.9	6.1	92.	22.2
%RSD	.08685	.22296	.16127	.81417
#1	3348.1	2754.0	57167.	2715.3
#2	3344.0	2745.4	57037.	2746.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.064%	95.932%	94.502%	100.85%
Range				

Sample Name: 480-188016-B-11-C Acquired: 8/16/2021 21:00:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.02465**	**-.00273**	**.01139**	**.04267**
Stddev	.00042	.01116	.00044	.00010	.00015
%RSD	167.35	45.286	15.977	.85436	.35000
#1	.00054	.01676	-.00242	.01146	.04257
#2	-.00005	.03254	-.00303	.01132	.04278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**112.03**	**.00002**	**.0242**	**-.00017**
Stddev	.00002	.08	.00000	.0022	.00010
%RSD	224.17	.07051	15.147	8.918	59.524
#1	-.00002	112.09	.00002	.0258	-.00010
#2	.00001	111.98	.00001	.0227	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00062**	**.00087**	**-.00276**	**.84227**	**.00461**
Stddev	.00014	.00031	.00276	.01468	.00045
%RSD	22.382	35.256	99.998	1.7429	9.8465
#1	.00052	.00109	-.00472	.85265	.00493
#2	.00072	.00065	-.00081	.83189	.00429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-11-C Acquired: 8/16/2021 21:00:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.291**	F **-.00404**	**-.00348**	**17.700**	**.00291**
Stddev	.002	.00004	.00014	.031	.00031
%RSD	.02089	.88813	4.0704	.17259	10.565
#1	10.293	-.00402	-.00338	17.678	.00269
#2	10.289	-.00407	-.00358	17.721	.00312
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00064**	**14.85**	**-.00191**	**-.00860**
Stddev	-----	.00048	.02	.00021	.00113
%RSD	-----	74.948	.1495	10.968	13.137
#1	z 162.7	-.00030	14.84	-.00177	-.00940
#2	z 162.7	-.00097	14.87	-.00206	-.00781
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.4049**	**-.00058**	**.66548**	**-.0143**	**.00028**
Stddev	.0018	.00036	.00114	.0001	.00007
%RSD	.05241	61.825	.17107	.6808	24.548
#1	3.4062	-.00083	.66467	-.0143	.00033
#2	3.4036	-.00033	.66628	-.0142	.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188016-B-11-C Acquired: 8/16/2021 21:00:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00115**	**-.00008**	**.00181**	**-.0002**
Stddev	.00035	.00026	.00044	.0018
%RSD	30.523	312.73	24.209	861.1
#1	.00090	.00010	.00150	-.0015
#2	.00139	-.00027	.00211	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3412.4**	**2750.5**	**57777.**	**2719.9**
Stddev	1.8	.2	192.	9.3
%RSD	.05330	.00838	.33218	.34321
#1	3411.1	2750.7	57913.	2713.3
#2	3413.7	2750.4	57642.	2726.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.830%	95.961%	95.619%	100.44%
Range				

Sample Name: 480-188019-AK-2-E Acquired: 8/16/2021 21:04:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**.00017**	**-.00264**	**.02645**	**.04046**
Stddev	.00040	.00254	.00308	.00027	.00010
%RSD	2425.6	1466.2	116.70	1.0391	.24243
#1	.00030	.00197	-.00482	.02625	.04053
#2	-.00027	-.00162	-.00046	.02664	.04039
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**118.63**	**.00012**	**.0008**	**-.00004**
Stddev	.00002	.15	.00007	.0357	.00014
%RSD	73.244	.12652	62.998	4462.	329.66
#1	.00003	118.52	.00006	.0260	.00006
#2	.00001	118.73	.00017	-.0244	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00039**	**.00120**	**-.00087**	**2.4968**	**.05590**
Stddev	.00018	.00061	.00010	.0029	.00133
%RSD	46.391	50.599	12.049	.11405	2.3874
#1	.00052	.00163	-.00094	2.4989	.05495
#2	.00026	.00077	-.00079	2.4948	.05684
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188019-AK-2-E Acquired: 8/16/2021 21:04:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**254.59**	**-.00092**	**-.00307**	**45.592**	**.00036**
Stddev	.06	.00006	.00009	.058	.00010
%RSD	.02337	6.3280	2.8329	.12758	28.762
#1	254.55	-.00088	-.00301	45.551	.00044
#2	254.63	-.00096	-.00313	45.633	.00029
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00049**	F **244.7**	**-.00115**	**-.01075**
Stddev	-----	.00049	.5	.00259	.00354
%RSD	-----	100.82	.1911	225.67	32.916
#1	z 185.7	.00084	244.4	-.00298	-.01326
#2	z 184.9	.00014	245.0	.00068	-.00825
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**7.2353**	**-.00095**	**1.7034**	**-.0089**	**.00074**
Stddev	.0084	.00098	.0018	.0021	.00001
%RSD	.11623	103.12	.10391	23.32	1.1247
#1	7.2294	-.00026	1.7021	-.0075	.00073
#2	7.2413	-.00164	1.7047	-.0104	.00074
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188019-AK-2-E Acquired: 8/16/2021 21:04:24 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**-.00041**	**.00265**	**.0004**
Stddev	.00078	.00026	.00001	.0005
%RSD	111.38	62.869	.32477	120.8
#1	.00015	-.00023	.00266	.0001
#2	.00125	-.00059	.00265	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3165.8**	**2645.9**	**55231.**	**2685.7**
Stddev	1.9	3.8	321.	1.1
%RSD	.06060	.14542	.58144	.04239
#1	3167.1	2648.6	55004.	2686.5
#2	3164.4	2643.2	55458.	2684.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.266%	92.312%	91.405%	99.176%
Range				

Sample Name: 480-188277-C-2-A Acquired: 8/16/2021 21:08:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00076**	**.04209**	**.00549**	**.04056**	**.03324**
Stddev	.00012	.01039	.00064	.00028	.00009
%RSD	16.297	24.687	11.619	.68710	.27118
#1	.00067	.03474	.00594	.04037	.03318
#2	.00085	.04943	.00504	.04076	.03331
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**16.689**	**-.00002**	**.0863**	**.00503**
Stddev	.00002	.020	.00001	.0183	.00013
%RSD	648.88	.11812	37.036	21.21	2.5584
#1	-.00001	16.703	-.00002	.0992	.00494
#2	.00001	16.676	-.00003	.0734	.00512
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00026**	**15.775**	**3.0071**	**-.00279**
Stddev	.00001	.00001	.011	.0365	.00066
%RSD	1.0312	3.2687	.07210	1.2153	23.804
#1	.00097	.00026	15.767	2.9812	-.00326
#2	.00096	.00025	15.783	3.0329	-.00232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-A Acquired: 8/16/2021 21:08:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.5440**	**2.1694**	**-.00447**	**63.730**	**.00376**
Stddev	.0006	.0015	.00005	.062	.00003
%RSD	.03622	.06858	1.2134	.09666	.75213
#1	1.5437	2.1684	-.00451	63.687	.00378
#2	1.5444	2.1705	-.00443	63.774	.00374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00065**	**1.081**	**-.00109**	**-.01090**
Stddev	-----	.00014	.005	.00331	.00082
%RSD	-----	21.444	.4417	303.85	7.5687
#1	z 154.4	.00075	1.078	.00125	-.01031
#2	z 154.9	.00055	1.085	-.00343	-.01148
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**4.3718**	**-.00102**	**.10930**	**-.0017**	**-.00002**
Stddev	.0014	.00036	.00013	.0043	.00014
%RSD	.03223	35.034	.11959	251.6	704.09
#1	4.3708	-.00127	.10921	-.0048	-.00012
#2	4.3728	-.00076	.10939	.0013	.00008
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-A Acquired: 8/16/2021 21:08:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00030**	**.00081**	**.04660**	**.0012**
Stddev	.00248	.00003	.00061	.0004
%RSD	832.63	3.2162	1.3107	34.21
#1	.00145	.00083	.04703	.0009
#2	-.00205	.00079	.04617	.0015
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3454.5**	**2822.7**	**58839.**	**2761.5**
Stddev	.7	1.7	204.	7.2
%RSD	.01925	.05860	.34660	.26059
#1	3454.0	2821.5	58983.	2766.6
#2	3455.0	2823.8	58694.	2756.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	91.950%	98.478%	97.375%	101.98%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 21:12:14 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.95048**	**48.109**	**.96610**	**.98007**	**.97049**	**.97127**	**48.356**	**.96897**
Stddev	.00291	.045	.00392	.00204	.00149	.00020	.043	.00110
%RSD	.30634	.09265	.40598	.20837	.15351	.02029	.08803	.11372
#1	.94842	48.141	.96887	.98151	.97155	.97113	48.386	.96975
#2	.95254	48.078	.96333	.97862	.96944	.97141	48.326	.96819
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.013**	**.96337**	**.96792**	**.94988**	**48.376**	**48.178**	**.95181**	**47.548**
Stddev	.042	.00004	.00220	.00205	.280	.026	.00102	.082
%RSD	4.172	.00377	.22761	.21532	.57957	.05408	.10710	.17342
#1	.9835	.96335	.96636	.94844	48.574	48.159	.95253	47.489
#2	1.043	.96340	.96947	.95133	48.178	48.196	.95109	47.606
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.96472**	**.99188**	**48.536**	**.96390**	z *****	**.96703**	**24.31**	**.96771**
Stddev	.00212	.00109	.026	.00147	-----	.00237	.09	.00500
%RSD	.21938	.10995	.05301	.15289	-----	.24503	.3721	.51679
#1	.96322	.99111	48.554	.96494	z 9114.	.96871	24.37	.97125
#2	.96622	.99265	48.518	.96286	z 9131.	.96536	24.24	.96418
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 21:12:14 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.96129	9.4373	.96283	.96232	.9459	.96789	.97459	.97260
Stddev	.00832	.0110	.00207	.00017	.0119	.00043	.00007	.00051
%RSD	.86551	.11702	.21538	.01730	1.259	.04399	.00713	.05261
#1	.96717	9.4295	.96430	.96244	.9375	.96758	.97464	.97224
#2	.95540	9.4451	.96137	.96221	.9544	.96819	.97454	.97296
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0010	.9484
Stddev	.0006	.0034
%RSD	.06461	.3632
#1	1.0006	.9460
#2	1.0015	.9508
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3267.4	2792.6	56789.	2674.3
Stddev	6.0	10.4	117.	15.2
%RSD	.18433	.37189	.20627	.56983
#1	3263.2	2785.3	56872.	2663.5
#2	3271.7	2800.0	56706.	2685.1

Sample Name: CCB-6615058 Acquired: 8/16/2021 21:15:55 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00462**	**.00158**	**-.00152**	**.00005**	**.00002**	**.00427**	**-.00011**
Stddev	.00004	.00969	.00087	.00017	.00001	.00002	.00149	.00018
%RSD	13.051	209.71	54.711	11.122	14.612	78.219	34.915	155.92
#1	.00029	.01147	.00097	-.00140	.00006	.00001	.00322	.00001
#2	.00035	-.00223	.00220	-.00164	.00005	.00003	.00533	-.00024
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0152**	**-.00002**	**.00009**	**-.00006**	**.00079**	**-.06324**	**-.00234**	**-.00207**
Stddev	.0287	.00011	.00021	.00017	.00726	.02419	.00086	.00122
%RSD	188.8	658.40	243.21	274.16	913.28	38.254	36.793	58.845
#1	.0051	.00006	-.00006	-.00019	.00593	-.08034	-.00295	-.00121
#2	-.0355	-.00009	.00024	.00006	-.00434	-.04613	-.00173	-.00292
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00016**	**.00399**	**-.00055**	**-.00018**	z *****	**-.00014**	**-.0071**	**-.00006**
Stddev	.00002	.00117	.00246	.00020	-----	.00052	.0006	.00012
%RSD	10.678	29.349	443.21	108.70	-----	368.93	8.797	182.97
#1	-.00017	.00482	-.00229	-.00032	z 139.4	-.00051	-.0075	-.00015
#2	-.00015	.00316	.00118	-.00004	z 139.9	.00023	-.0066	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 21:15:55 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00108**	**-.00683**	**-.00034**	**.00001**	**-.0038**	**.00030**	**.00006**	**-.00016**
Stddev	.00163	.01030	.00014	.00005	.0066	.00006	.00029	.00006
%RSD	150.74	150.86	41.157	793.07	173.0	21.265	493.22	40.222
#1	.00223	.00046	-.00043	-.00003	-.0085	.00035	-.00015	-.00012
#2	-.00007	-.01411	-.00024	.00005	.0009	.00025	.00026	-.00021
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00030**	**-.0001**
Stddev	.00017	.0005
%RSD	55.702	421.3
#1	.00018	-.0005
#2	.00042	.0003
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3790.7**	**2883.9**	**60895.**	**2713.0**
Stddev	.3	2.4	86.	5.7
%RSD	.00704	.08437	.14174	.20827
#1	3790.5	2885.7	60834.	2709.0
#2	3790.8	2882.2	60956.	2717.0

Sample Name: CCVL-6615375 Acquired: 8/16/2021 21:19:51 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00545**	**.19355**	**.01282**	**.01720**	**.00208**	**.00194**	**.49147**	**.00194**
Stddev	.00001	.00359	.00054	.00047	.00001	.00000	.00506	.00000
%RSD	.20040	1.8538	4.1849	2.7384	.37914	.06453	1.0301	.07657
#1	.00546	.19102	.01320	.01753	.00207	.00194	.48789	.00194
#2	.00544	.19609	.01244	.01687	.00208	.00194	.49505	.00194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0223**	**.00366**	**.00390**	**.00898**	**.04713**	**.38451**	**.02542**	**.18988**
Stddev	.0050	.00007	.00015	.00019	.00182	.00410	.00120	.00060
%RSD	22.26	1.9192	3.8559	2.1074	3.8577	1.0661	4.7241	.31623
#1	-.0259	.00361	.00400	.00912	.04842	.38162	.02627	.18946
#2	-.0188	.00371	.00379	.00885	.04585	.38741	.02457	.19031
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00303**	**.00772**	**.99384**	**.00931**	z *****	**.00866**	**.1754**	**.01889**
Stddev	.00007	.00005	.00412	.00010	-----	.00015	.0024	.00205
%RSD	2.2687	.63935	.41482	1.0334	-----	1.7699	1.361	10.837
#1	.00308	.00768	.99676	.00925	z 140.5	.00877	.1738	.02033
#2	.00298	.00775	.99093	.00938	z 139.4	.00855	.1771	.01744
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 21:19:51 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01899	.46054	.00801	.00478	-.0124	.00453	.01878	.00463
Stddev	.00051	.00180	.00043	.00005	.0049	.00040	.00031	.00009
%RSD	2.6632	.39147	5.3146	1.1269	39.68	8.9024	1.6289	1.9262
#1	.01863	.45927	.00831	.00474	-.0089	.00482	.01856	.00457
#2	.01935	.46182	.00771	.00482	-.0159	.00425	.01900	.00470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00937	.0016
Stddev	.00018	.0007
%RSD	1.8734	41.25
#1	.00925	.0021
#2	.00950	.0012
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3776.2	2897.7	60977.	2704.8
Stddev	8.3	7.4	153.	5.0
%RSD	.21916	.25431	.25085	.18573
#1	3782.0	2902.9	60869.	2708.3
#2	3770.3	2892.5	61085.	2701.2

Sample Name: 480-188277-C-2-ASD@5 Acquired: 8/16/2021 21:23:45 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00046**	**-.00352**	**.00003**	**.00650**	**.00678**
Stddev	.00062	.01605	.00246	.00021	.00001
%RSD	134.61	455.61	7075.8	3.1656	.14797
#1	.00090	-.01487	.00178	.00665	.00679
#2	.00002	.00783	-.00171	.00636	.00678
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**3.4196**	**-.00003**	**.0415**	**.00095**
Stddev	.00007	.0227	.00005	.0241	.00006
%RSD	121.63	.66344	158.71	57.97	5.9500
#1	-.00001	3.4356	-.00007	.0586	.00091
#2	-.00011	3.4035	.00000	.0245	.00099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**-.00008**	**3.2309**	**.55030**	**-.00285**
Stddev	.00000	.00036	.0239	.00814	.00040
%RSD	2.4841	433.90	.73837	1.4791	13.906
#1	.00011	.00017	3.2478	.54455	-.00257
#2	.00011	-.00034	3.2141	.55606	-.00313
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-ASD@5 Acquired: 8/16/2021 21:23:45 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.31432**	**.43521**	**-.00368**	**13.229**	**.00057**
Stddev	.00196	.00206	.00004	.042	.00014
%RSD	.62482	.47415	1.1398	.32083	24.435
#1	.31571	.43667	-.00365	13.259	.00067
#2	.31293	.43375	-.00371	13.199	.00047
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00052**	**.1968**	**-.00054**	**-.00375**
Stddev	-----	.00029	.0023	.00038	.00140
%RSD	-----	55.504	1.148	71.794	37.190
#1	z 143.0	.00072	.1952	-.00081	-.00277
#2	z 142.8	.00031	.1984	-.00026	-.00474
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.91074**	**-.00076**	**.02222**	**-.0001**	**-.00027**
Stddev	.00593	.00000	.00002	.0162	.00010
%RSD	.65163	.51343	.10583	13960.	38.072
#1	.91494	-.00076	.02224	.0114	-.00020
#2	.90655	-.00075	.02221	-.0116	-.00034
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-ASD@5 Acquired: 8/16/2021 21:23:45 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00006**	**-.00006**	**.00900**	**.0005**
Stddev	.00070	.00024	.00017	.0003
%RSD	1214.3	415.92	1.8891	55.78
#1	.00044	.00011	.00888	.0003
#2	-.00055	-.00023	.00912	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3662.4**	**2869.3**	**59883.**	**2691.9**
Stddev	3.7	2.4	103.	6.4
%RSD	.10234	.08202	.17170	.23797
#1	3659.8	2867.7	59810.	2687.3
#2	3665.1	2871.0	59956.	2696.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	97.485%	100.11%	99.104%	99.404%
Range				

Sample Name: 480-188277-C-2-APDS Acquired: 8/16/2021 21:27:38 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04721**	**9.8322**	**.20851**	**.23835**	**.24458**
Stddev	.00002	.0032	.00188	.00110	.00065
%RSD	.03781	.03243	.90051	.46184	.26648
#1	.04722	9.8300	.20983	.23757	.24504
#2	.04720	9.8345	.20718	.23912	.24412
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20708**	**26.219**	**.20294**	**.0728**	**.20288**
Stddev	.00080	.105	.00024	.0036	.00046
%RSD	.38798	.40017	.11972	4.998	.22432
#1	.20652	26.144	.20276	.0702	.20256
#2	.20765	26.293	.20311	.0754	.20320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19672**	**.19239**	**25.317**	**12.866**	**.19600**
Stddev	.00031	.00119	.021	.024	.00021
%RSD	.15612	.61653	.08238	.18418	.10945
#1	.19694	.19323	25.303	12.849	.19585
#2	.19651	.19155	25.332	12.883	.19615
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-APDS Acquired: 8/16/2021 21:27:38 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.999**	**2.2981**	**.20726**	**72.090**	**.20204**
Stddev	.057	.0126	.00073	.360	.00000
%RSD	.51603	.54716	.35396	.50005	.00210
#1	11.039	2.3070	.20674	71.835	.20204
#2	10.959	2.2892	.20778	72.345	.20204
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.20185**	**11.08**	**.21295**	**.18805**
Stddev	-----	.00024	.02	.00018	.00137
%RSD	-----	.12050	.1814	.08304	.72970
#1	z 173.4	.20202	11.07	.21307	.18902
#2	z 173.9	.20167	11.09	.21282	.18708
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.915**	**.19563**	**.30729**	**.0394**	**.20055**
Stddev	.045	.00038	.00068	.0086	.00033
%RSD	.32632	.19212	.22286	21.88	.16454
#1	13.883	.19589	.30778	.0455	.20078
#2	13.947	.19536	.30681	.0333	.20032
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-APDS Acquired: 8/16/2021 21:27:38 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20118**	**.19933**	**.24673**	**.0444**
Stddev	.00070	.00039	.00017	.0001
%RSD	.34863	.19595	.06794	.1528
#1	.20168	.19906	.24661	.0445
#2	.20069	.19961	.24685	.0444
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3380.4**	**2817.8**	**58510.**	**2713.4**
Stddev	3.4	5.5	96.	11.1
%RSD	.10060	.19438	.16330	.41064
#1	3382.9	2821.7	58442.	2721.3
#2	3378.0	2813.9	58577.	2705.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	89.980%	98.309%	96.831%	100.20%
Range				

Sample Name: 480-188277-C-2-B MS Acquired: 8/16/2021 21:31:19 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04708**	**9.7113**	**.20458**	**.23412**	**.24116**
Stddev	.00010	.0551	.00143	.00017	.00047
%RSD	.22035	.56691	.70143	.07412	.19564
#1	.04701	9.7502	.20559	.23400	.24083
#2	.04716	9.6724	.20356	.23424	.24150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20256**	**26.125**	**.19763**	**.0512**	**.19797**
Stddev	.00011	.089	.00030	.0101	.00011
%RSD	.05659	.33930	.15429	19.70	.05685
#1	.20247	26.187	.19741	.0583	.19789
#2	.20264	26.062	.19785	.0441	.19805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19370**	**.18979**	**25.030**	**12.684**	**.18721**
Stddev	.00059	.00146	.042	.012	.00166
%RSD	.30229	.77138	.16941	.09836	.88898
#1	.19328	.18876	25.000	12.693	.18603
#2	.19411	.19083	25.060	12.675	.18839
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-B MS Acquired: 8/16/2021 21:31:19 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.896**	**2.3402**	**.20383**	**72.688**	**.19768**
Stddev	.039	.0076	.00044	.377	.00003
%RSD	.35771	.32628	.21405	.51898	.01413
#1	10.868	2.3348	.20352	72.954	.19770
#2	10.923	2.3456	.20414	72.421	.19766
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19630**	**10.84**	**.21153**	**.18967**
Stddev	-----	.00084	.02	.00085	.00318
%RSD	-----	.42891	.2072	.40345	1.6766
#1	z 174.1	.19689	10.83	.21214	.18742
#2	z 174.3	.19570	10.86	.21093	.19192
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.751**	**.19264**	**.30359**	**.0089**	**.19649**
Stddev	.049	.00061	.00011	.0098	.00027
%RSD	.35986	.31640	.03691	110.1	.13894
#1	13.786	.19307	.30367	.0158	.19629
#2	13.716	.19221	.30351	.0020	.19668
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-B MS Acquired: 8/16/2021 21:31:19 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19656**	**.19540**	**.24504**	**.0212**
Stddev	.00040	.00036	.00048	.0001
%RSD	.20278	.18185	.19664	.2910
#1	.19685	.19515	.24470	.0212
#2	.19628	.19565	.24538	.0213
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3390.7**	**2819.8**	**58281.**	**2721.3**
Stddev	.1	3.7	109.	4.6
%RSD	.00282	.12956	.18668	.16972
#1	3390.6	2822.4	58358.	2718.1
#2	3390.8	2817.2	58204.	2724.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.253%	98.378%	96.453%	100.49%
Range				

Sample Name: 480-188277-C-2-C MSD Acquired: 8/16/2021 21:35:00 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04687**	**9.7239**	**.20646**	**.23447**	**.24046**
Stddev	.00085	.0233	.00246	.00023	.00038
%RSD	1.8224	.23988	1.1905	.09876	.15903
#1	.04748	9.7404	.20472	.23464	.24074
#2	.04627	9.7074	.20820	.23431	.24019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20218**	**26.161**	**.19809**	**.0481**	**.19769**
Stddev	.00045	.110	.00018	.0052	.00024
%RSD	.22462	.41910	.09138	10.79	.11981
#1	.20186	26.238	.19822	.0518	.19752
#2	.20250	26.083	.19796	.0445	.19786
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19160**	**.18677**	**25.214**	**12.743**	**.18980**
Stddev	.00110	.00186	.222	.030	.00084
%RSD	.57582	.99830	.88098	.23794	.44359
#1	.19239	.18809	25.371	12.764	.19039
#2	.19082	.18545	25.057	12.722	.18920
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-C MSD Acquired: 8/16/2021 21:35:00 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.758**	**2.3260**	**.20423**	**72.858**	**.19781**
Stddev	.096	.0168	.00084	.115	.00026
%RSD	.89237	.72376	.40920	.15777	.13042
#1	10.825	2.3379	.20363	72.939	.19763
#2	10.690	2.3141	.20482	72.776	.19799
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19662**	**11.15**	**.21017**	**.18613**
Stddev	-----	.00011	.02	.00077	.00470
%RSD	-----	.05598	.1667	.36622	2.5235
#1	z 173.3	.19670	11.17	.21072	.18281
#2	z 173.7	.19654	11.14	.20963	.18945
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.722**	**.19287**	**.30470**	**.0192**	**.19556**
Stddev	.099	.00039	.00077	.0101	.00049
%RSD	.72261	.19984	.25339	52.77	.24913
#1	13.792	.19314	.30524	.0120	.19522
#2	13.652	.19259	.30415	.0263	.19591
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188277-C-2-C MSD Acquired: 8/16/2021 21:35:00 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19681**	**.19422**	**.24360**	**.0170**
Stddev	.00087	.00030	.00225	.0011
%RSD	.44304	.15339	.92382	6.708
#1	.19619	.19443	.24519	.0178
#2	.19743	.19401	.24201	.0162
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3386.3**	**2822.3**	**58637.**	**2737.2**
Stddev	3.8	5.5	209.	17.9
%RSD	.11131	.19318	.35677	.65501
#1	3383.7	2818.5	58489.	2724.6
#2	3389.0	2826.2	58785.	2749.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	90.136%	98.467%	97.042%	101.08%
Range				

Sample Name: MB 480-592915/1-A Acquired: 8/16/2021 21:38:41 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00028**	**.03718**	**-.00242**	**.00541**	**.00013**
Stddev	.00005	.00329	.00068	.00014	.00000
%RSD	17.004	8.8351	28.143	2.5959	1.3807
#1	.00025	.03951	-.00194	.00531	.00013
#2	.00032	.03486	-.00290	.00551	.00013
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00003**	**.12595**	**-.00005**	**.0009**	**.00010**
Stddev	.00003	.00052	.00010	.0060	.00004
%RSD	97.336	.41235	187.39	677.1	39.384
#1	.00001	.12558	-.00013	-.0034	.00013
#2	.00005	.12632	.00002	.0051	.00007
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00031**	**.00860**	**-.07987**	**-.00220**
Stddev	.00019	.00029	.00113	.01625	.00119
%RSD	96.897	94.895	13.131	20.342	54.263
#1	.00006	.00051	.00780	-.06838	-.00304
#2	.00033	.00010	.00940	-.09136	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592915/1-A Acquired: 8/16/2021 21:38:41 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00349**	F **-.00332**	**-.00282**	**.01695**	**-.00020**
Stddev	.00248	.00005	.00011	.00029	.00011
%RSD	70.994	1.5379	3.8361	1.6957	54.534
#1	.00524	-.00336	-.00275	.01675	-.00012
#2	.00174	-.00329	-.00290	.01716	-.00028
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		.00300			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00060**	**-.0049**	**-.00008**	**-.00252**
Stddev	-----	.00032	.0009	.00007	.00262
%RSD	-----	53.486	19.09	85.248	103.69
#1	z 137.5	.00037	-.0043	-.00013	-.00067
#2	z 137.3	.00083	-.0056	-.00003	-.00437
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00832**	**-.00025**	**.00056**	**.0016**	**-.00016**
Stddev	.00795	.00081	.00001	.0072	.00016
%RSD	95.503	324.81	2.3870	453.1	102.13
#1	-.00270	.00032	.00055	.0067	-.00027
#2	-.01394	-.00082	.00057	-.0035	-.00004
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: MB 480-592915/1-A Acquired: 8/16/2021 21:38:41 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00040**	**-.00013**	**.00196**	**.0024**
Stddev	.00069	.00001	.00043	.0006
%RSD	171.44	5.3443	21.926	22.98
#1	.00009	-.00014	.00166	.0028
#2	-.00089	-.00013	.00226	.0020
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3827.5**	**2908.9**	**61750.**	**2752.0**
Stddev	2.8	3.6	33.	11.2
%RSD	.07222	.12518	.05364	.40545
#1	3829.5	2911.5	61774.	2744.1
#2	3825.6	2906.4	61727.	2759.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	101.88%	101.49%	102.19%	101.62%
Range				

Sample Name: LCS 480-592915/2-A Acquired: 8/16/2021 21:42:35 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04621**	**9.7412**	**.19952**	**.19969**	**.21401**
Stddev	.00044	.0382	.00174	.00022	.00006
%RSD	.96239	.39185	.87304	.10926	.02912
#1	.04590	9.7142	.20076	.19985	.21405
#2	.04653	9.7682	.19829	.19954	.21397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20285**	**9.9204**	**.19829**	**-.0265**	**.18856**
Stddev	.00116	.0594	.00003	.0155	.00026
%RSD	.57304	.59837	.01270	58.48	.13663
#1	.20203	9.8784	.19831	-.0374	.18874
#2	.20367	9.9624	.19827	-.0155	.18838
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19260**	**.18761**	**9.4808**	**9.7084**	**.18665**
Stddev	.00055	.00038	.0313	.0523	.00128
%RSD	.28500	.20311	.33036	.53894	.68629
#1	.19221	.18734	9.4587	9.6714	.18756
#2	.19299	.18788	9.5030	9.7454	.18575
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592915/2-A Acquired: 8/16/2021 21:42:35 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.4377**	**.19354**	**.20476**	**9.9061**	**.18996**
Stddev	.0342	.00023	.00032	.0349	.00038
%RSD	.36260	.11910	.15604	.35197	.19936
#1	9.4135	.19337	.20453	9.8815	.18969
#2	9.4619	.19370	.20498	9.9308	.19023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19270**	**9.794**	**.21140**	**.18427**
Stddev	-----	.00178	.002	.00279	.00489
%RSD	-----	.92453	.0157	1.3182	2.6521
#1	z 157.8	.19144	9.793	.20943	.18081
#2	z 158.7	.19396	9.795	.21337	.18772
Check ?	None	Chk Pass	None	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.0858**	**.18900**	**.19837**	**.0013**	**.19645**
Stddev	.0300	.00110	.00017	.0012	.00115
%RSD	.33009	.58210	.08485	88.61	.58475
#1	9.0646	.18978	.19825	.0005	.19564
#2	9.1071	.18823	.19849	.0022	.19726
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: LCS 480-592915/2-A Acquired: 8/16/2021 21:42:35 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19795**	**.19491**	**.19810**	**.0121**
Stddev	.00195	.00023	.00016	.0013
%RSD	.98355	.11852	.08237	10.92
#1	.19657	.19508	.19822	.0130
#2	.19933	.19475	.19799	.0112
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3580.1**	**2856.4**	**59950.**	**2735.6**
Stddev	3.9	3.4	28.	8.7
%RSD	.11024	.11878	.04688	.31970
#1	3577.4	2854.0	59970.	2741.8
#2	3582.9	2858.8	59930.	2729.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.295%	99.654%	99.215%	101.02%
Range				

Sample Name: 480-188294-C-1-A Acquired: 8/16/2021 21:46:17 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.03454**	**-.00056**	**.01485**	**.00242**
Stddev	.00018	.00191	.00078	.00016	.00001
%RSD	85.465	5.5449	139.34	1.1059	.25461
#1	.00035	.03589	-.00001	.01473	.00243
#2	.00009	.03318	-.00111	.01496	.00242
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00000**	**13.193**	**-.00010**	**.0171**	**-.00002**
Stddev	.00000	.086	.00006	.0070	.00001
%RSD	162.66	.64944	62.733	40.85	88.028
#1	-.00000	13.253	-.00005	.0221	-.00001
#2	.00001	13.132	-.00014	.0122	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00035**	**.00050**	**.01013**	**.52883**	**.01511**
Stddev	.00035	.00002	.00097	.01171	.00143
%RSD	99.303	4.8611	9.6011	2.2141	9.4603
#1	.00010	.00048	.00944	.52055	.01410
#2	.00060	.00052	.01081	.53711	.01613
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-A Acquired: 8/16/2021 21:46:17 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.3089**	**.00582**	**-.00310**	**6.0589**	**.00086**
Stddev	.0117	.00008	.00020	.0182	.00006
%RSD	.50800	1.3774	6.4101	.29984	7.0044
#1	2.3172	.00588	-.00296	6.0460	.00082
#2	2.3006	.00577	-.00325	6.0717	.00091
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00027**	**1.310**	**-.00173**	**-.00088**
Stddev	-----	.00028	.003	.00029	.00387
%RSD	-----	104.30	.2517	16.968	441.05
#1	z 189.2	.00046	1.312	-.00194	-.00361
#2	z 190.2	.00007	1.307	-.00153	.00186
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.1611**	**-.00057**	**.08121**	**-.0121**	**.00049**
Stddev	.0360	.00030	.00048	.0015	.00013
%RSD	.39258	52.204	.59391	12.31	26.257
#1	9.1357	-.00077	.08087	-.0110	.00040
#2	9.1866	-.00036	.08155	-.0131	.00058
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-A Acquired: 8/16/2021 21:46:17 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00023**	**.00013**	**.00184**	**.0002**
Stddev	.00016	.00022	.00020	.0011
%RSD	66.723	173.55	10.855	580.5
#1	.00035	-.00003	.00199	-.0006
#2	.00012	.00028	.00170	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3708.7**	**2869.0**	**60483.**	**2746.6**
Stddev	10.3	8.1	207.	1.8
%RSD	.27654	.28407	.34268	.06448
#1	3701.5	2863.2	60336.	2745.4
#2	3716.0	2874.8	60629.	2747.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.718%	100.10%	100.10%	101.43%
Range				

Sample Name: 480-188294-C-1-ASD@5 Acquired: 8/16/2021 21:50:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00060**	**-.00857**	**.00002**	**.00191**	**.00046**
Stddev	.00043	.01536	.00056	.00016	.00000
%RSD	70.999	179.19	3076.9	8.1436	.55802
#1	.00091	.00229	-.00038	.00202	.00046
#2	.00030	-.01944	.00041	.00180	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00011**	**2.6483**	**-.00004**	**-.0031**	**-.00001**
Stddev	.00004	.0075	.00017	.0137	.00002
%RSD	34.442	.28303	455.18	446.4	190.94
#1	.00013	2.6430	-.00016	.0066	-.00002
#2	.00008	2.6536	.00008	-.0128	.00000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00002**	**-.00033**	**-.00243**	**.02629**	**.00026**
Stddev	.00001	.00027	.00111	.03132	.00241
%RSD	82.052	81.611	45.782	119.12	938.77
#1	.00003	-.00052	-.00322	.00415	-.00145
#2	.00001	-.00014	-.00164	.04844	.00196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-ASD@5 Acquired: 8/16/2021 21:50:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.45646**	**-.00216**	**-.00421**	**1.2113**	**.00016**
Stddev	.00637	.00003	.00005	.0081	.00004
%RSD	1.3947	1.2127	1.1600	.67025	24.335
#1	.45195	-.00214	-.00418	1.2056	.00014
#2	.46096	-.00218	-.00425	1.2171	.00019
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00008**	**.2439**	**-.00219**	**-.00321**
Stddev	-----	.00004	.0075	.00044	.00257
%RSD	-----	52.088	3.074	20.323	79.946
#1	z 149.4	-.00011	.2492	-.00187	-.00503
#2	z 148.4	-.00005	.2386	-.00250	-.00140
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.8015**	**-.00052**	**.01618**	**-.0063**	**-.00035**
Stddev	.0236	.00050	.00015	.0050	.00026
%RSD	1.3124	95.773	.92706	79.54	73.647
#1	1.7848	-.00087	.01607	-.0027	-.00017
#2	1.8182	-.00017	.01628	-.0098	-.00053
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-ASD@5 Acquired: 8/16/2021 21:50:10 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00074**	**-.00014**	**.00034**	**.0022**
Stddev	.00068	.00004	.00037	.0019
%RSD	92.365	28.723	110.49	87.94
#1	.00026	-.00011	.00060	.0036
#2	.00122	-.00017	.00007	.0008
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3791.2**	**2894.4**	**61119.**	**2716.9**
Stddev	3.4	2.3	37.	7.1
%RSD	.08860	.07835	.06113	.26062
#1	3788.8	2892.8	61093.	2711.9
#2	3793.5	2896.0	61146.	2721.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	100.91%	100.98%	101.15%	100.33%
Range				

Sample Name: 480-188294-C-1-APDS Acquired: 8/16/2021 21:54:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04673**	**9.7897**	**.20465**	**.21348**	**.21649**
Stddev	.00022	.0195	.00079	.00080	.00075
%RSD	.46600	.19933	.38578	.37690	.34756
#1	.04689	9.7759	.20409	.21405	.21702
#2	.04658	9.8035	.20521	.21292	.21596
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20569**	**22.635**	**.20142**	**.0271**	**.19092**
Stddev	.00037	.042	.00082	.0189	.00006
%RSD	.18165	.18744	.40927	69.73	.02953
#1	.20596	22.665	.20201	.0137	.19088
#2	.20543	22.605	.20084	.0405	.19096
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19492**	**.18882**	**9.5849**	**10.483**	**.20697**
Stddev	.00153	.00113	.0451	.056	.00099
%RSD	.78688	.59780	.47097	.53613	.47854
#1	.19601	.18962	9.6169	10.523	.20768
#2	.19384	.18802	9.5530	10.444	.20627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-APDS Acquired: 8/16/2021 21:54:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.660**	**.20238**	**.20741**	**15.787**	**.19362**
Stddev	.040	.00088	.00022	.056	.00052
%RSD	.33983	.43696	.10472	.35585	.26793
#1	11.688	.20301	.20756	15.827	.19325
#2	11.632	.20176	.20725	15.748	.19398
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19572**	**11.02**	**.21424**	**.18674**
Stddev	-----	.00020	.03	.00071	.00091
%RSD	-----	.10223	.2755	.33071	.48962
#1	z 207.4	.19558	11.04	.21474	.18739
#2	z 207.3	.19586	11.00	.21374	.18610
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**17.926**	**.18904**	**.27684**	**.0049**	**.19984**
Stddev	.029	.00006	.00108	.0054	.00097
%RSD	.16020	.03405	.38894	109.1	.48295
#1	17.947	.18899	.27760	.0087	.20052
#2	17.906	.18908	.27608	.0011	.19915
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-APDS Acquired: 8/16/2021 21:54:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.20009**	**.19729**	**.19956**	**.0152**
Stddev	.00102	.00125	.00038	.0010
%RSD	.50788	.63113	.19017	6.870
#1	.20081	.19817	.19982	.0160
#2	.19937	.19641	.19929	.0145
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3528.6**	**2832.9**	**59869.**	**2752.0**
Stddev	4.0	.6	225.	3.3
%RSD	.11390	.02102	.37630	.11909
#1	3531.4	2832.5	59710.	2749.7
#2	3525.7	2833.3	60029.	2754.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	93.922%	98.834%	99.081%	101.62%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 21:57:47 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0355**	**52.355**	**1.0515**	**1.0674**	**1.0461**	**1.0528**	**52.549**	**1.0561**
Stddev	.0031	.089	.0004	.0019	.0008	.0025	.197	.0019
%RSD	.30033	.17018	.03329	.17723	.07364	.24121	.37583	.17884
#1	1.0377	52.292	1.0513	1.0687	1.0455	1.0510	52.410	1.0574
#2	1.0333	52.418	1.0518	1.0661	1.0466	1.0546	52.689	1.0547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.040**	**1.0418**	**1.0555**	**1.0310**	**52.097**	**52.239**	**1.0303**	**51.608**
Stddev	.006	.0001	.0010	.0034	.193	.077	.0021	.029
%RSD	.5558	.01239	.09856	.32693	.37059	.14774	.20782	.05665
#1	1.036	1.0419	1.0548	1.0334	52.234	52.185	1.0288	51.629
#2	1.044	1.0417	1.0563	1.0286	51.961	52.294	1.0318	51.588
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**1.0450**	**1.0843**	**52.422**	**1.0450**	z *****	**1.0482**	**26.47**	**1.0535**
Stddev	.0022	.0021	.094	.0016	-----	.0019	.04	.0016
%RSD	.20620	.18939	.18001	.15327	-----	.17685	.1463	.14804
#1	1.0465	1.0828	52.355	1.0461	z 9778.	1.0496	26.50	1.0524
#2	1.0434	1.0857	52.488	1.0438	z 9773.	1.0469	26.44	1.0546
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 21:57:47 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0524	10.321	1.0514	1.0418	1.029	1.0534	1.0537	1.0569
Stddev	.0045	.131	.0024	.0011	.021	.0023	.0002	.0014
%RSD	.42353	1.2725	.22606	.10983	2.067	.22203	.01972	.12759
#1	1.0555	10.228	1.0531	1.0410	1.014	1.0517	1.0536	1.0578
#2	1.0492	10.414	1.0497	1.0426	1.044	1.0550	1.0539	1.0559
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0766	.9936
Stddev	.0008	.0004
%RSD	.07262	.0397
#1	1.0760	.9939
#2	1.0771	.9933
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3237.8	2764.8	56878.	2676.9
Stddev	3.4	3.9	81.	7.4
%RSD	.10649	.14129	.14179	.27769
#1	3235.4	2762.1	56935.	2682.2
#2	3240.3	2767.6	56821.	2671.7

Sample Name: CCB-6615058 Acquired: 8/16/2021 22:01:27 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**-.02648**	**-.00106**	**-.00115**	**.00013**	**.00003**	**.00104**	**-.00003**
Stddev	.00024	.00484	.00061	.00065	.00000	.00011	.00253	.00013
%RSD	626.25	18.262	57.889	56.658	3.5850	382.66	242.74	485.61
#1	.00013	-.02990	-.00149	-.00069	.00013	-.00005	.00283	-.00012
#2	-.00020	-.02306	-.00062	-.00161	.00013	.00010	-.00075	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0059**	**.00004**	**.00008**	**.00017**	**.00672**	**-.08822**	**-.00204**	**-.00139**
Stddev	.0008	.00012	.00013	.00021	.00813	.00459	.00209	.00131
%RSD	14.28	276.43	165.04	124.51	121.09	5.2056	102.73	94.078
#1	-.0065	.00013	.00018	.00002	.00097	-.09146	-.00056	-.00047
#2	-.0053	-.00004	-.00001	.00031	.01247	-.08497	-.00352	-.00232
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00003**	**.00489**	**-.00285**	**-.00015**	z *****	**.00015**	**-.0139**	**.00090**
Stddev	.00005	.00166	.00597	.00011	-----	.00057	.0005	.00206
%RSD	156.47	33.897	209.47	67.930	-----	389.35	3.481	228.07
#1	.00000	.00606	.00137	-.00023	z 140.5	-.00025	-.0143	.00236
#2	-.00007	.00372	-.00707	-.00008	z 141.3	.00055	-.0136	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 22:01:27 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00101	-.00426	-.00083	.00005	-.0097	.00027	.00019	-.00024
Stddev	.00360	.00257	.00041	.00002	.0035	.00008	.00032	.00004
%RSD	356.51	60.185	49.581	41.286	35.68	30.255	166.60	15.541
#1	-.00154	-.00245	-.00054	.00007	-.0121	.00033	-.00003	-.00021
#2	.00356	-.00608	-.00112	.00004	-.0072	.00022	.00041	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00041	.0003
Stddev	.00019	.0003
%RSD	47.244	89.30
#1	.00054	.0001
#2	.00027	.0005
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3821.9	2886.9	60821.	2689.0
Stddev	9.6	12.6	294.	7.7
%RSD	.25129	.43709	.48367	.28616
#1	3815.1	2878.0	60613.	2683.5
#2	3828.7	2895.8	61029.	2694.4

Sample Name: CCVL-6615375 Acquired: 8/16/2021 22:05:22 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00594**	**.17748**	**.01240**	**.01773**	**.00206**	**.00200**	**.48728**	**.00183**
Stddev	.00004	.03231	.00049	.00047	.00001	.00001	.00254	.00006
%RSD	.74811	18.203	3.9703	2.6385	.58335	.65825	.52149	3.5142
#1	.00591	.15464	.01205	.01740	.00207	.00201	.48908	.00179
#2	.00597	.20033	.01275	.01806	.00205	.00199	.48549	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0271**	**.00375**	**.00406**	**.00868**	**.04276**	**.38768**	**.02549**	**.18888**
Stddev	.0009	.00008	.00028	.00016	.00596	.00127	.00051	.00132
%RSD	3.155	2.0733	6.8835	1.8473	13.937	.32846	1.9874	.70128
#1	.0265	.00381	.00386	.00879	.03855	.38858	.02585	.18982
#2	.0277	.00370	.00426	.00856	.04697	.38678	.02513	.18794
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00294**	**.00797**	**.97685**	**.00941**	z *****	**.00988**	**.1740**	**.01971**
Stddev	.00005	.00010	.00184	.00008	-----	.00054	.0015	.00111
%RSD	1.8556	1.3078	.18871	.82677	-----	5.4391	.8708	5.6235
#1	.00291	.00790	.97816	.00947	z 140.0	.01026	.1751	.01893
#2	.00298	.00804	.97555	.00936	z 140.0	.00950	.1730	.02050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 22:05:22 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.01939	.43863	.00787	.00476	-.0030	.00460	.01957	.00474
Stddev	.00361	.00805	.00033	.00005	.0058	.00005	.00001	.00005
%RSD	18.616	1.8364	4.2306	1.0117	195.6	1.0348	.04385	1.0917
#1	.01684	.43294	.00763	.00473	.0011	.00463	.01957	.00471
#2	.02195	.44433	.00811	.00479	-.0071	.00457	.01958	.00478
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00944	.0017
Stddev	.00057	.0004
%RSD	6.0047	25.63
#1	.00904	.0020
#2	.00984	.0014
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3802.4	2888.1	61281.	2726.0
Stddev	3.9	9.6	158.	5.9
%RSD	.10158	.33095	.25784	.21777
#1	3805.1	2894.8	61169.	2721.8
#2	3799.6	2881.3	61393.	2730.2

Sample Name: 480-188294-C-1-B MS Acquired: 8/16/2021 22:09:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04663**	**9.8399**	**.19844**	**.20990**	**.21280**
Stddev	.00008	.0621	.00099	.00058	.00051
%RSD	.17719	.63152	.49709	.27400	.24009
#1	.04657	9.7959	.19774	.21030	.21316
#2	.04669	9.8838	.19914	.20949	.21244
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20155**	**23.050**	**.19608**	**-.0062**	**.18611**
Stddev	.00077	.027	.00017	.0153	.00079
%RSD	.38276	.11652	.08888	245.1	.42210
#1	.20101	23.031	.19621	-.0171	.18666
#2	.20210	23.069	.19596	.0046	.18555
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19313**	**.18849**	**9.5090**	**10.276**	**.20540**
Stddev	.00033	.00039	.0376	.015	.00034
%RSD	.16976	.20616	.39564	.14460	.16318
#1	.19290	.18877	9.4824	10.266	.20564
#2	.19336	.18822	9.5357	10.287	.20516
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-B MS Acquired: 8/16/2021 22:09:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.800**	**.20184**	**.20412**	**15.919**	**.18947**
Stddev	.001	.00045	.00062	.050	.00062
%RSD	.00668	.22273	.30144	.31255	.32979
#1	11.800	.20216	.20368	15.884	.18991
#2	11.799	.20152	.20455	15.954	.18903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19050**	**11.09**	**.21150**	**.18156**
Stddev	-----	.00109	.01	.00086	.00078
%RSD	-----	.57111	.1184	.40702	.43122
#1	z 209.4	.19127	11.10	.21211	.18211
#2	z 209.6	.18973	11.09	.21089	.18100
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.831**	**.18810**	**.27937**	**.0113**	**.19651**
Stddev	.018	.00056	.00060	.0091	.00002
%RSD	.09791	.29816	.21560	80.48	.00861
#1	18.818	.18850	.27894	.0177	.19649
#2	18.844	.18771	.27980	.0049	.19652
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-B MS Acquired: 8/16/2021 22:09:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19614**	**.19414**	**.19626**	**.0236**
Stddev	.00012	.00045	.00027	.0018
%RSD	.05924	.23046	.13822	7.417
#1	.19606	.19383	.19645	.0248
#2	.19622	.19446	.19607	.0224
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3539.6**	**2832.0**	**59745.**	**2742.7**
Stddev	5.1	2.3	50.	9.4
%RSD	.14291	.08084	.08401	.34288
#1	3536.0	2830.4	59710.	2749.3
#2	3543.1	2833.7	59781.	2736.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.215%	98.805%	98.876%	101.28%
Range				

Sample Name: 480-188294-C-1-C MSD Acquired: 8/16/2021 22:12:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.04762**	**9.8334**	**.19979**	**.20834**	**.21187**
Stddev	.00015	.0393	.00293	.00024	.00019
%RSD	.31685	.39911	1.4663	.11453	.08741
#1	.04773	9.8611	.20186	.20817	.21200
#2	.04751	9.8056	.19772	.20851	.21174
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.20186**	**22.939**	**.19625**	**-.0048**	**.18639**
Stddev	.00013	.047	.00062	.0092	.00014
%RSD	.06631	.20565	.31674	192.2	.07653
#1	.20195	22.973	.19581	.0017	.18649
#2	.20176	22.906	.19669	-.0113	.18629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.19457**	**.19045**	**9.5551**	**10.300**	**.20839**
Stddev	.00040	.00106	.0137	.033	.00138
%RSD	.20593	.55801	.14364	.31895	.66207
#1	.19485	.18970	9.5648	10.277	.20741
#2	.19429	.19120	9.5454	10.323	.20936
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-C MSD Acquired: 8/16/2021 22:12:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**11.912**	**.20325**	**.20629**	**15.822**	**.19029**
Stddev	.018	.00039	.00074	.050	.00040
%RSD	.15302	.19328	.35849	.31662	.20852
#1	11.899	.20297	.20576	15.857	.19058
#2	11.925	.20353	.20681	15.786	.19001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.19034**	**11.03**	**.21195**	**.18877**
Stddev	-----	.00154	.00	.00210	.00487
%RSD	-----	.80956	.0400	.99073	2.5776
#1	z 209.2	.19143	11.03	.21344	.18533
#2	z 208.9	.18925	11.03	.21047	.19221
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**18.601**	**.18749**	**.27700**	**.0027**	**.19707**
Stddev	.051	.00025	.00100	.0195	.00022
%RSD	.27482	.13200	.36087	716.9	.11188
#1	18.637	.18732	.27771	.0165	.19691
#2	18.565	.18767	.27629	-.0111	.19722
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-1-C MSD Acquired: 8/16/2021 22:12:58 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.19775**	**.19429**	**.19718**	**.0158**
Stddev	.00171	.00038	.00158	.0026
%RSD	.86363	.19476	.79877	16.61
#1	.19655	.19402	.19607	.0176
#2	.19896	.19456	.19829	.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3545.0**	**2831.4**	**59559.**	**2701.7**
Stddev	2.0	5.9	54.	16.4
%RSD	.05610	.20763	.09123	.60862
#1	3546.4	2835.6	59597.	2713.4
#2	3543.6	2827.2	59521.	2690.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	94.361%	98.783%	98.567%	99.769%
Range				

Sample Name: 480-188294-C-2-A Acquired: 8/16/2021 22:16:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**1.6405**	**-.00076**	**.16488**	**.10899**
Stddev	.00004	.0172	.00092	.00016	.00006
%RSD	101.93	1.0499	120.88	.09730	.05675
#1	.00001	1.6283	-.00141	.16476	.10903
#2	.00007	1.6527	-.00011	.16499	.10894
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00126**	**10.569**	**-.00002**	**-.0228**	**.00749**
Stddev	.00004	.037	.00001	.0035	.00007
%RSD	3.0776	.35269	77.114	15.23	.98652
#1	.00129	10.596	-.00003	-.0204	.00743
#2	.00123	10.543	-.00001	-.0253	.00754
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00167**	**.00168**	**1.0251**	**1.8731**	**.00340**
Stddev	.00002	.00017	.0020	.0211	.00119
%RSD	.97183	10.337	.19423	1.1242	34.827
#1	.00166	.00155	1.0237	1.8582	.00257
#2	.00168	.00180	1.0265	1.8880	.00424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-2-A Acquired: 8/16/2021 22:16:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.6125**	**.14044**	**-.00266**	**26.382**	**.02077**
Stddev	.0217	.00003	.00014	.028	.00022
%RSD	.25206	.02263	5.0926	.10748	1.0725
#1	8.5972	.14042	-.00256	26.402	.02061
#2	8.6279	.14046	-.00275	26.362	.02093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00159**	**8.909**	**-.00087**	**-.00258**
Stddev	-----	.00028	.003	.00061	.00110
%RSD	-----	17.730	.0383	70.919	42.592
#1	z 159.6	.00139	8.906	-.00130	-.00180
#2	z 159.4	.00178	8.911	-.00043	-.00335
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.5336**	**-.00059**	**.06876**	**-.0043**	**.04119**
Stddev	.0537	.00008	.00022	.0018	.00152
%RSD	.97078	13.877	.31613	42.11	3.6821
#1	5.4957	-.00064	.06891	-.0030	.04226
#2	5.5716	-.00053	.06860	-.0056	.04011
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-2-A Acquired: 8/16/2021 22:16:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00045**	**.00153**	**.06058**	**.0026**
Stddev	.00131	.00005	.00017	.0025
%RSD	292.98	2.9778	.27983	94.82
#1	-.00138	.00156	.06070	.0044
#2	.00048	.00150	.06046	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3591.7**	**2837.1**	**59978.**	**2728.3**
Stddev	5.0	2.0	20.	2.3
%RSD	.13800	.06920	.03356	.08438
#1	3595.2	2838.4	59964.	2729.9
#2	3588.2	2835.7	59992.	2726.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	95.602%	98.980%	99.261%	100.75%
Range				

Sample Name: 480-188294-C-3-A Acquired: 8/16/2021 22:20:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00049**	**.03397**	**.00133**	**.00971**	**.00447**
Stddev	.00031	.02580	.00138	.00002	.00003
%RSD	63.938	75.947	104.46	.21805	.62970
#1	.00027	.01573	.00230	.00973	.00445
#2	.00071	.05222	.00035	.00970	.00449
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00029**	**13.537**	**-.00005**	**.0144**	**-.00005**
Stddev	.00009	.068	.00006	.0022	.00012
%RSD	32.991	.50246	118.48	15.21	242.78
#1	.00035	13.585	-.00010	.0160	-.00013
#2	.00022	13.489	-.00001	.0129	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00086**	**.00025**	**.00529**	**.57237**	**.01739**
Stddev	.00024	.00007	.00252	.06292	.00025
%RSD	28.239	27.989	47.671	10.993	1.4163
#1	.00069	.00030	.00707	.61686	.01756
#2	.00103	.00020	.00351	.52788	.01721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-3-A Acquired: 8/16/2021 22:20:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**5.0018**	**-.00270**	**-.00369**	**4.7447**	**.00434**
Stddev	.0027	.00002	.00001	.0187	.00020
%RSD	.05464	.77663	.36511	.39334	4.5751
#1	4.9999	-.00268	-.00370	4.7579	.00448
#2	5.0038	-.00271	-.00368	4.7315	.00420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00042**	**1.342**	**-.00046**	**-.00560**
Stddev	-----	.00064	.003	.00064	.00097
%RSD	-----	149.92	.2427	140.53	17.314
#1	z 169.0	.00087	1.340	-.00000	-.00491
#2	z 170.0	-.00003	1.344	-.00091	-.00629
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**8.2602**	**-.00077**	**.09263**	**.0046**	**.00023**
Stddev	.0012	.00080	.00045	.0297	.00022
%RSD	.01436	104.18	.48500	652.1	92.373
#1	8.2610	-.00134	.09295	-.0164	.00008
#2	8.2593	-.00020	.09232	.0255	.00039
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-3-A Acquired: 8/16/2021 22:20:29 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00021**	**.00531**	**.0007**
Stddev	.00018	.00009	.00017	.0001
%RSD	49.240	43.960	3.2526	12.54
#1	.00050	.00028	.00519	.0006
#2	.00024	.00015	.00543	.0007
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3700.5**	**2850.6**	**61024.**	**2752.8**
Stddev	1.6	3.9	114.	19.9
%RSD	.04208	.13705	.18740	.72146
#1	3699.4	2853.3	60943.	2738.8
#2	3701.6	2847.8	61105.	2766.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.498%	99.452%	100.99%	101.66%
Range				

Sample Name: 480-188294-C-4-A Acquired: 8/16/2021 22:24:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00025**	**.03587**	**-.00095**	**.00411**	**.00003**
Stddev	.00041	.01084	.00166	.00015	.00002
%RSD	164.38	30.216	175.58	3.6890	48.546
#1	-.00004	.02821	.00023	.00400	.00004
#2	.00054	.04353	-.00212	.00422	.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.08198**	**-.00013**	**-.0228**	**.00008**
Stddev	.00001	.00272	.00003	.0071	.00003
%RSD	28.675	3.3139	22.730	31.23	43.399
#1	.00005	.08006	-.00011	-.0278	.00010
#2	.00003	.08390	-.00015	-.0178	.00005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00007**	**.00007**	**-.00626**	**-.10498**	**-.00270**
Stddev	.00010	.00016	.00390	.01403	.00099
%RSD	142.85	231.57	62.348	13.363	36.475
#1	.00014	-.00005	-.00902	-.11490	-.00200
#2	-.00000	.00019	-.00350	-.09506	-.00340
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-4-A Acquired: 8/16/2021 22:24:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00011**	F **-.00324**	**-.00410**	**-.00566**	**-.00025**
Stddev	.00098	.00002	.00012	.00364	.00017
%RSD	862.88	.74378	3.0202	64.394	66.531
#1	-.00081	-.00323	-.00419	-.00823	-.00037
#2	.00058	-.00326	-.00401	-.00308	-.00013
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00002**	**-.0132**	**-.00135**	**-.00270**
Stddev	-----	.00070	.0044	.00152	.00363
%RSD	-----	3537.4	33.49	112.38	134.36
#1	z 138.8	-.00048	-.0101	-.00028	-.00013
#2	z 137.9	.00052	-.0163	-.00242	-.00527
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00716**	**-.00065**	**.00048**	**-.0068**	**-.00049**
Stddev	.00623	.00007	.00001	.0187	.00008
%RSD	87.035	11.012	2.5101	275.0	17.160
#1	.00275	-.00070	.00047	-.0200	-.00043
#2	.01156	-.00060	.00049	.0064	-.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188294-C-4-A Acquired: 8/16/2021 22:24:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00061**	**-.00015**	**.00039**	**-.0003**
Stddev	.00098	.00003	.00025	.0011
%RSD	159.59	22.236	62.370	352.4
#1	.00008	-.00012	.00057	.0005
#2	-.00130	-.00017	.00022	-.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3838.0**	**2892.4**	**62113.**	**2733.6**
Stddev	5.8	3.0	21.	7.9
%RSD	.15043	.10417	.03317	.29065
#1	3833.9	2890.3	62099.	2739.2
#2	3842.1	2894.6	62128.	2728.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	102.16%	100.91%	102.79%	100.95%
Range				

Sample Name: 480-188297-C-1-A Acquired: 8/16/2021 22:28:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00008**	**.30360**	**-.00047**	**.41930**	**.08271**
Stddev	.00047	.01080	.00254	.00045	.00031
%RSD	567.36	3.5560	543.74	.10632	.37048
#1	.00041	.31123	-.00226	.41961	.08293
#2	-.00025	.29596	.00133	.41898	.08249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**23.320**	**-.00004**	**-.0011**	**.00093**
Stddev	.00004	.105	.00009	.0140	.00001
%RSD	195.55	.45238	248.74	1227.	1.3899
#1	.00001	23.245	.00003	.0087	.00092
#2	-.00005	23.394	-.00010	-.0110	.00094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00071**	**.00358**	**.19682**	**9.5825**	**.00020**
Stddev	.00005	.00007	.00298	.0048	.00113
%RSD	7.0580	2.0359	1.5133	.04981	573.39
#1	.00075	.00353	.19471	9.5858	-.00060
#2	.00068	.00363	.19893	9.5791	.00100
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188297-C-1-A Acquired: 8/16/2021 22:28:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.8234**	**.00719**	**-.00378**	**59.384**	**.00629**
Stddev	.0163	.00006	.00009	.348	.00028
%RSD	.23917	.76953	2.3046	.58684	4.3843
#1	6.8350	.00715	-.00372	59.138	.00609
#2	6.8119	.00723	-.00384	59.631	.00648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00077**	**18.87**	**-.00056**	**-.00775**
Stddev	-----	.00144	.04	.00130	.00512
%RSD	-----	186.09	.1921	230.81	66.104
#1	z 169.6	-.00024	18.89	-.00148	-.01137
#2	z 170.6	.00179	18.84	.00036	-.00413
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**2.8511**	**-.00102**	**.09063**	**-.0089**	**.00747**
Stddev	.0307	.00025	.00050	.0016	.00019
%RSD	1.0781	24.058	.55010	18.26	2.6070
#1	2.8293	-.00119	.09028	-.0078	.00733
#2	2.8728	-.00085	.09099	-.0101	.00761
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188297-C-1-A Acquired: 8/16/2021 22:28:16 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00066**	**.00050**	**.00896**	**-.0003**
Stddev	.00044	.00008	.00009	.0009
%RSD	66.418	15.558	1.0178	301.8
#1	.00097	.00056	.00903	-.0009
#2	.00035	.00045	.00890	.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3476.1**	**2776.7**	**58770.**	**2723.4**
Stddev	3.1	1.8	119.	3.9
%RSD	.08958	.06532	.20281	.14213
#1	3478.3	2777.9	58685.	2726.2
#2	3473.9	2775.4	58854.	2720.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	92.527%	96.873%	97.261%	100.57%
Range				

Sample Name: 480-188311-E-1-A Acquired: 8/16/2021 22:32:06 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00030**	**1.2986**	**.01252**	**.06388**	**.79764**
Stddev	.00043	.0100	.00097	.00031	.00052
%RSD	143.52	.76761	7.7649	.48166	.06483
#1	.00060	1.3057	.01183	.06366	.79800
#2	-.00000	1.2916	.01321	.06410	.79727
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**234.61**	**-.00008**	**-.0009**	**-.00002**
Stddev	.00003	.32	.00002	.0120	.00011
%RSD	89.301	.13432	19.953	1376.	548.83
#1	-.00001	234.83	-.00007	-.0093	-.00010
#2	-.00006	234.39	-.00009	.0076	.00006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00009**	**.00113**	**.00601**	**29.670**	**.03139**
Stddev	.00040	.00008	.00120	.039	.00016
%RSD	422.20	6.7646	19.990	.12984	.52248
#1	.00019	.00108	.00516	29.642	.03151
#2	-.00037	.00119	.00686	29.697	.03128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-1-A Acquired: 8/16/2021 22:32:06 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01027**	F **-.00389**	**.06098**	**162.04**	**.01516**
Stddev	.00089	.00002	.00007	.47	.00011
%RSD	8.6211	.59917	.10955	.29076	.72178
#1	.01089	-.00387	.06093	162.38	.01523
#2	.00964	-.00390	.06103	161.71	.01508
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00111**	**15.33**	**-.00230**	**-.01242**
Stddev	-----	.00145	.02	.00036	.00264
%RSD	-----	130.27	.1517	15.750	21.255
#1	z 215.3	.00009	15.32	-.00255	-.01055
#2	z 216.4	.00213	15.35	-.00204	-.01428
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.0833**	**.00017**	**2.1812**	**-.0024**	**.00059**
Stddev	.0192	.00052	.0022	.0176	.00011
%RSD	.62386	314.01	.10028	745.4	19.405
#1	3.0697	-.00020	2.1827	-.0148	.00051
#2	3.0969	.00054	2.1796	.0101	.00067
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-1-A Acquired: 8/16/2021 22:32:06 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00031**	**.00432**	**.00093**	**.0011**
Stddev	.00043	.00011	.00012	.0014
%RSD	137.97	2.5664	12.786	126.2
#1	.00062	.00424	.00102	.0001
#2	.00001	.00440	.00085	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3161.8**	**2643.2**	**55467.**	**2673.7**
Stddev	1.4	.7	176.	6.4
%RSD	.04284	.02764	.31679	.23844
#1	3162.8	2643.7	55592.	2669.2
#2	3160.8	2642.7	55343.	2678.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.160%	92.218%	91.796%	98.734%
Range				

Sample Name: 480-188311-E-2-A Acquired: 8/16/2021 22:36:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**1.2134**	**.01762**	**.09009**	**.02644**
Stddev	.00068	.0278	.00046	.00035	.00005
%RSD	3086.1	2.2901	2.6059	.38862	.20684
#1	.00046	1.1937	.01794	.08984	.02640
#2	-.00050	1.2330	.01729	.09034	.02647
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**64.384**	**.00007**	**.0024**	**.00055**
Stddev	.00001	.143	.00004	.0011	.00000
%RSD	118.07	.22288	56.145	46.92	.73401
#1	-.00000	64.282	.00009	.0031	.00055
#2	-.00002	64.485	.00004	.0016	.00055
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00040**	**.00036**	**.02868**	**24.068**	**.00436**
Stddev	.00031	.00054	.00374	.032	.00072
%RSD	78.929	150.82	13.029	.13307	16.495
#1	.00062	-.00002	.02603	24.045	.00385
#2	.00017	.00074	.03132	24.091	.00486
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-2-A Acquired: 8/16/2021 22:36:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00123**	F **-.00403**	**.09944**	**212.93**	**.02919**
Stddev	.00108	.00003	.00007	.72	.00010
%RSD	87.518	.64705	.06751	.33718	.33230
#1	.00199	-.00405	.09939	212.43	.02926
#2	.00047	-.00401	.09948	213.44	.02912
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00280**	**17.84**	**-.00156**	**-.00774**
Stddev	-----	.00201	.00	.00005	.00159
%RSD	-----	71.734	.0162	3.2191	20.544
#1	z 252.4	.00138	17.85	-.00152	-.00662
#2	z 252.6	.00422	17.84	-.00159	-.00887
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.396**	**-.00065**	**2.0797**	**.0008**	**.00074**
Stddev	.058	.00025	.0055	.0008	.00015
%RSD	.43099	38.744	.26303	90.70	20.880
#1	13.355	-.00082	2.0759	.0003	.00085
#2	13.436	-.00047	2.0836	.0014	.00063
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-2-A Acquired: 8/16/2021 22:36:04 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00182**	**.00926**	**.00484**	**.0011**
Stddev	.00187	.00005	.00033	.0008
%RSD	102.58	.51959	6.8416	72.77
#1	.00315	.00922	.00460	.0005
#2	.00050	.00929	.00507	.0016
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3240.6**	**2681.0**	**56217.**	**2699.7**
Stddev	4.3	3.0	203.	9.3
%RSD	.13239	.11310	.36054	.34447
#1	3237.6	2678.9	56074.	2706.3
#2	3243.6	2683.1	56361.	2693.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.257%	93.536%	93.037%	99.693%
Range				

Sample Name: 480-188311-E-3-A Acquired: 8/16/2021 22:39:54 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**.21705**	**.00307**	**.07079**	**3.9363**
Stddev	.00009	.01629	.00180	.00092	.0088
%RSD	981.78	7.5029	58.712	1.3046	.22355
#1	.00007	.22856	.00434	.07144	3.9301
#2	-.00006	.20553	.00179	.07014	3.9426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**672.23**	**-.00032**	**.0364**	**.00069**
Stddev	.00000	.83	.00005	.0160	.00018
%RSD	26.118	.12342	16.685	44.08	26.191
#1	-.00002	671.64	-.00036	.0477	.00082
#2	-.00001	672.81	-.00028	.0250	.00056
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00105**	**.00520**	**.03705**	**35.533**	**.61938**
Stddev	.00017	.00043	.00004	.049	.00019
%RSD	16.266	8.3692	.11805	.13855	.03006
#1	.00117	.00489	.03708	35.498	.61925
#2	.00093	.00550	.03701	35.568	.61951
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-3-A Acquired: 8/16/2021 22:39:54 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.02432**	**-.00242**	**.18246**	**402.78**	**.01319**
Stddev	.00421	.00008	.00028	.87	.00048
%RSD	17.295	3.1335	.15092	.21607	3.6359
#1	.02135	-.00236	.18266	402.17	.01285
#2	.02730	-.00247	.18227	403.40	.01353
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00054**	**8.229**	**-.00673**	**-.01599**
Stddev	-----	.00114	.008	.00018	.00109
%RSD	-----	209.22	.1017	2.7250	6.8270
#1	z 219.8	-.00135	8.235	-.00660	-.01522
#2	z 220.4	.00026	8.223	-.00686	-.01676
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.23633**	**-.00067**	**5.2424**	**-.0037**	**.00284**
Stddev	.00825	.00056	.0274	.0091	.00013
%RSD	3.4925	84.703	.52257	243.4	4.6581
#1	.23050	-.00027	5.2617	.0027	.00293
#2	.24217	-.00106	5.2230	-.0102	.00274
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-3-A Acquired: 8/16/2021 22:39:54 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00194**	**-.00001**	**.00158**	**.0013**
Stddev	.00080	.00014	.00084	.0005
%RSD	41.416	1099.2	53.411	38.34
#1	.00250	.00009	.00098	.0017
#2	.00137	-.00011	.00218	.0010
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2872.6**	**2475.0**	**51735.**	**2605.8**
Stddev	7.6	6.9	115.	18.5
%RSD	.26556	.27808	.22255	.70972
#1	2867.2	2470.2	51816.	2618.9
#2	2878.0	2479.9	51654.	2592.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	76.461%	86.350%	85.619%	96.226%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 22:44:09 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0465**	**53.480**	**1.0560**	**1.0560**	**1.0332**	**1.0574**	**53.625**	**1.0459**
Stddev	.0008	.225	.0025	.0002	.0028	.0016	.130	.0006
%RSD	.08140	.42158	.24092	.02198	.27057	.15247	.24320	.06107
#1	1.0471	53.640	1.0542	1.0562	1.0352	1.0585	53.717	1.0463
#2	1.0459	53.321	1.0578	1.0559	1.0313	1.0562	53.533	1.0454
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.053**	**1.0260**	**1.0638**	**1.0344**	**53.310**	**52.190**	**1.0550**	**52.245**
Stddev	.018	.0006	.0031	.0008	.166	.237	.0023	.016
%RSD	1.738	.05615	.29536	.07258	.31206	.45420	.21512	.03061
#1	1.066	1.0256	1.0616	1.0349	53.427	52.357	1.0566	52.257
#2	1.040	1.0264	1.0660	1.0338	53.192	52.022	1.0534	52.234
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**1.0451**	**1.0900**	**52.683**	**1.0416**	z *****	**1.0360**	**26.38**	**1.0772**
Stddev	.0001	.0056	.200	.0010	-----	.0014	.02	.0055
%RSD	.01189	.51298	.38052	.09986	-----	.13149	.0732	.50581
#1	1.0452	1.0861	52.824	1.0423	z 9621.	1.0370	26.37	1.0733
#2	1.0450	1.0940	52.541	1.0409	z 9635.	1.0351	26.40	1.0810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 22:44:09 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0594**	**10.635**	**1.0329**	**1.0505**	**1.033**	**1.0519**	**1.0522**	**1.0586**
Stddev	.0069	.019	.0002	.0028	.004	.0043	.0001	.0034
%RSD	.65520	.18134	.02336	.27017	.4215	.40817	.01076	.32442
#1	1.0545	10.622	1.0327	1.0525	1.030	1.0489	1.0523	1.0562
#2	1.0643	10.649	1.0330	1.0485	1.037	1.0550	1.0521	1.0610
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0749**	**1.014**
Stddev	.0057	.006
%RSD	.53066	.6134
#1	1.0709	1.010
#2	1.0790	1.019
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3253.3**	**2742.9**	**56773.**	**2633.5**
Stddev	6.7	2.4	57.	12.3
%RSD	.20658	.08787	.10114	.46533
#1	3248.5	2741.2	56732.	2624.8
#2	3258.0	2744.6	56813.	2642.1

Sample Name: CCB-6615058 Acquired: 8/16/2021 22:47:49 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00027**	**.00470**	**.00263**	**-.00088**	**.00011**	**.00010**	**-.00010**	**-.00003**
Stddev	.00009	.00624	.00149	.00018	.00001	.00003	.00241	.00001
%RSD	34.466	132.91	56.656	20.320	12.504	31.584	2416.4	28.691
#1	.00021	.00028	.00157	-.00101	.00010	.00007	-.00180	-.00004
#2	.00034	.00911	.00368	-.00075	.00012	.00012	.00160	-.00002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0074**	**-.00006**	**.00003**	**-.00004**	**.00616**	**-.03763**	**-.00183**	**-.00232**
Stddev	.0020	.00001	.00029	.00017	.00426	.00391	.00100	.00155
%RSD	26.54	20.475	939.11	400.88	69.167	10.388	54.282	66.666
#1	-.0060	-.00007	-.00017	-.00017	.00314	-.04039	-.00254	-.00341
#2	-.0088	-.00005	.00024	.00008	.00917	-.03486	-.00113	-.00123
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00008**	**.00510**	**.02286**	**.00009**	z *****	**.00056**	**-.0176**	**-.00006**
Stddev	.00000	.00147	.00441	.00005	-----	.00028	.0042	.00066
%RSD	4.9552	28.794	19.273	61.608	-----	50.551	24.02	1132.0
#1	-.00009	.00614	.02597	.00013	z 141.9	.00076	-.0146	-.00053
#2	-.00008	.00407	.01974	.00005	z 142.4	.00036	-.0206	.00041
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 22:47:49 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.00162	.00108	-.00014	-.00002	-.0154	.00020	.00016	-.00031
Stddev	.00050	.01373	.00021	.00002	.0115	.00015	.00037	.00011
%RSD	31.117	1269.5	153.75	93.453	74.71	75.723	235.64	35.664
#1	-.00126	.01079	-.00028	-.00001	-.0236	.00031	-.00011	-.00039
#2	-.00198	-.00863	.00001	-.00003	-.0073	.00009	.00042	-.00023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00045	.0018
Stddev	.00002	.0009
%RSD	3.8386	51.97
#1	.00046	.0011
#2	.00044	.0024
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3820.9	2854.8	61303.	2661.5
Stddev	3.9	1.9	169.	13.4
%RSD	.10253	.06489	.27495	.50467
#1	3818.2	2853.5	61184.	2671.0
#2	3823.7	2856.1	61422.	2652.0

Sample Name: CCVL-6615375 Acquired: 8/16/2021 22:51:45 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00613**	**.19282**	**.01416**	**.01709**	**.00206**	**.00199**	**.50495**	**.00188**
Stddev	.00021	.02350	.00075	.00011	.00000	.00009	.00419	.00005
%RSD	3.4493	12.186	5.2974	.66184	.15331	4.4406	.83045	2.4413
#1	.00628	.17620	.01363	.01717	.00206	.00205	.50198	.00191
#2	.00598	.20943	.01469	.01701	.00206	.00193	.50791	.00185
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0315**	**.00382**	**.00399**	**.00947**	**.05046**	**.43633**	**.02575**	**.19730**
Stddev	.0035	.00005	.00009	.00023	.00103	.05974	.00072	.00152
%RSD	11.24	1.2283	2.2789	2.4242	2.0383	13.691	2.7965	.76859
#1	.0290	.00379	.00406	.00964	.05118	.47857	.02524	.19622
#2	.0340	.00385	.00393	.00931	.04973	.39409	.02626	.19837
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00309**	**.00829**	**1.0132**	**.00929**	z *****	**.00866**	**.1713**	**.02068**
Stddev	.00001	.00007	.0093	.00014	-----	.00045	.0020	.00074
%RSD	.28426	.89408	.91461	1.5045	-----	5.1384	1.183	3.5684
#1	.00310	.00835	1.0066	.00919	z 142.4	.00835	.1699	.02120
#2	.00309	.00824	1.0197	.00939	z 142.4	.00898	.1728	.02016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 22:51:45 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.01816**	**.45798**	**.00832**	**.00474**	**.0083**	**.00465**	**.01942**	**.00462**
Stddev	.00060	.02204	.00030	.00007	.0013	.00023	.00136	.00011
%RSD	3.3146	4.8116	3.6131	1.4337	15.85	5.0334	7.0074	2.3550
#1	.01859	.47356	.00811	.00479	.0092	.00449	.01846	.00455
#2	.01773	.44239	.00854	.00469	.0073	.00482	.02038	.00470
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00975**	**.0014**
Stddev	.00032	.0001
%RSD	3.2332	7.152
#1	.00952	.0014
#2	.00997	.0013
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3812.3**	**2867.6**	**60816.**	**2658.4**
Stddev	1.5	7.4	84.	2.2
%RSD	.03955	.25977	.13832	.08252
#1	3811.2	2862.3	60756.	2656.9
#2	3813.3	2872.9	60875.	2660.0

Sample Name: 480-188311-E-4-A Acquired: 8/16/2021 22:55:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00032**	**.02858**	**.00202**	**.02106**	**.02928**
Stddev	.00036	.01388	.00114	.00019	.00008
%RSD	114.36	48.564	56.456	.89052	.26058
#1	-.00057	.01877	.00282	.02093	.02934
#2	-.00006	.03840	.00121	.02120	.02923
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**59.444**	**-.00004**	**-.0239**	**.00016**
Stddev	.00003	.057	.00011	.0053	.00017
%RSD	264.91	.09627	240.43	22.05	103.84
#1	-.00001	59.484	.00003	-.0202	.00004
#2	.00003	59.403	-.00012	-.0277	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00039**	**1.0926**	**1.3436**	**.00144**
Stddev	.00029	.00048	.0015	.0096	.00029
%RSD	38.140	124.89	.13377	.71357	19.922
#1	.00098	.00073	1.0916	1.3504	.00164
#2	.00056	.00005	1.0937	1.3369	.00124
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-4-A Acquired: 8/16/2021 22:55:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**25.469**	**.09617**	**.03679**	**180.50**	**.00347**
Stddev	.035	.00016	.00002	.24	.00011
%RSD	.13613	.16806	.05422	.13328	3.3010
#1	25.494	.09628	.03678	180.33	.00355
#2	25.445	.09606	.03681	180.67	.00339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00090**	**21.10**	**-.00345**	**-.00785**
Stddev	-----	.00034	.01	.00215	.00099
%RSD	-----	38.307	.0448	62.192	12.632
#1	z 193.8	.00066	21.10	-.00497	-.00715
#2	z 194.1	.00114	21.09	-.00193	-.00855
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.6307**	**-.00086**	**.32351**	**.0017**	**.00036**
Stddev	.0175	.00053	.00047	.0071	.00038
%RSD	.26325	61.581	.14399	416.6	104.70
#1	6.6184	-.00123	.32318	-.0033	.00063
#2	6.6430	-.00048	.32384	.0067	.00009
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-4-A Acquired: 8/16/2021 22:55:39 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00119**	**.00002**	**.00229**	**.0022**
Stddev	.00083	.00017	.00001	.0001
%RSD	70.390	834.75	.40166	5.955
#1	.00060	.00014	.00229	.0021
#2	.00177	-.00010	.00230	.0023
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3281.0**	**2691.0**	**56557.**	**2692.5**
Stddev	5.7	3.5	226.	4.1
%RSD	.17366	.12917	.40005	.15309
#1	3285.1	2693.5	56397.	2689.6
#2	3277.0	2688.5	56717.	2695.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.333%	93.885%	93.599%	99.428%
Range				

Sample Name: 480-188311-E-5-A Acquired: 8/16/2021 22:59:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00057**	**.08534**	**.00397**	**.18567**	**.95310**
Stddev	.00003	.02124	.00068	.00031	.00972
%RSD	4.6055	24.885	17.203	.16629	1.0195
#1	.00055	.07032	.00445	.18589	.95997
#2	.00059	.10036	.00348	.18545	.94623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**792.76**	**-.00019**	**.0806**	**.00133**
Stddev	.00001	.58	.00010	.0122	.00020
%RSD	19.722	.07374	54.270	15.19	14.676
#1	-.00005	792.34	-.00012	.0892	.00120
#2	-.00007	793.17	-.00027	.0719	.00147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00052**	**.00495**	**.05633**	**88.151**	**.33840**
Stddev	.00011	.00035	.00234	.957	.00441
%RSD	21.829	7.0350	4.1543	1.0854	1.3037
#1	.00059	.00520	.05468	88.827	.34152
#2	.00044	.00471	.05799	87.474	.33528
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-5-A Acquired: 8/16/2021 22:59:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.01008**	F **-.00376**	**.09353**	**442.85**	**.01390**
Stddev	.00254	.00000	.00006	4.07	.00003
%RSD	25.184	.12297	.06867	.91828	.24854
#1	.00828	-.00376	.09357	445.73	.01387
#2	.01187	-.00376	.09348	439.98	.01392
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00231**	**12.89**	**-.00670**	**-.01497**
Stddev	-----	.00019	.02	.00212	.00033
%RSD	-----	8.4202	.1433	31.698	2.2221
#1	z 363.1	-.00245	12.88	-.00821	-.01474
#2	z 361.0	-.00217	12.90	-.00520	-.01521
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.24437**	**-.00073**	**4.3308**	**-.0165**	**.00330**
Stddev	.00364	.00110	.0527	.0110	.00049
%RSD	1.4886	151.00	1.2160	67.02	14.806
#1	.24180	-.00151	4.3681	-.0087	.00364
#2	.24695	.00005	4.2936	-.0243	.00295
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-5-A Acquired: 8/16/2021 22:59:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00049**	**.00001**	**.00197**	**.0006**
Stddev	.00026	.00006	.00027	.0011
%RSD	53.734	448.46	13.697	183.2
#1	.00030	.00006	.00216	-.0002
#2	.00067	-.00003	.00178	.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2824.3**	**2432.4**	**50878.**	**2551.5**
Stddev	1.3	3.3	147.	5.4
%RSD	.04581	.13364	.28975	.21035
#1	2825.2	2434.7	50774.	2547.7
#2	2823.4	2430.1	50983.	2555.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	75.175%	84.864%	84.201%	94.220%
Range				

Sample Name: 480-188311-E-6-A Acquired: 8/16/2021 23:03:36 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00001**	**.07038**	**.00108**	**.04246**	**.06011**
Stddev	.00028	.00908	.00088	.00010	.00000
%RSD	3758.7	12.900	81.112	.22846	.00643
#1	.00019	.07680	.00046	.04240	.06011
#2	-.00020	.06396	.00170	.04253	.06011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00003**	**75.096**	**.00009**	**-.0160**	**-.00006**
Stddev	.00008	.144	.00004	.0103	.00013
%RSD	255.93	.19203	47.912	64.29	206.61
#1	-.00009	75.197	.00012	-.0233	.00003
#2	.00003	74.994	.00006	-.0087	-.00016
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00172**	**.00171**	**.08092**	**25.198**	**.06264**
Stddev	.00003	.00022	.00019	.073	.00100
%RSD	1.7194	13.109	.23451	.28899	1.5962
#1	.00174	.00187	.08106	25.249	.06194
#2	.00170	.00156	.08079	25.146	.06335
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-6-A Acquired: 8/16/2021 23:03:36 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**26.212**	**.00910**	**.08783**	**247.64**	**.01236**
Stddev	.032	.00003	.00016	.11	.00010
%RSD	.12210	.27572	.18041	.04548	.81272
#1	26.235	.00909	.08771	247.56	.01228
#2	26.189	.00912	.08794	247.72	.01243
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00132**	**60.21**	**.00016**	**-.00986**
Stddev	-----	.00073	.00	.00105	.00363
%RSD	-----	55.675	.0023	642.35	36.786
#1	z 221.9	.00080	60.21	.00091	-.00729
#2	z 221.7	.00184	60.21	-.00058	-.01242
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**9.8472**	**-.00116**	**1.0775**	**.0031**	**.00158**
Stddev	.0389	.00016	.0001	.0285	.00025
%RSD	.39521	13.976	.01102	922.0	15.701
#1	9.8197	-.00104	1.0776	.0232	.00175
#2	9.8748	-.00127	1.0774	-.0171	.00140
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-6-A Acquired: 8/16/2021 23:03:36 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00077**	**.00193**	**.00795**	**.0044**
Stddev	.00027	.00000	.00006	.0009
%RSD	34.805	.11752	.73831	20.54
#1	.00096	.00193	.00791	.0050
#2	.00058	.00193	.00799	.0037
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3209.5**	**2660.6**	**55529.**	**2645.0**
Stddev	2.7	2.9	17.	5.6
%RSD	.08442	.10960	.03046	.21003
#1	3207.6	2658.5	55541.	2641.1
#2	3211.4	2662.6	55517.	2649.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	85.429%	92.823%	91.898%	97.676%
Range				

Sample Name: 480-188311-E-7-A Acquired: 8/16/2021 23:07:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00022**	**.58748**	**.00294**	**3.2559**	**.17206**
Stddev	.00070	.01446	.00086	.0012	.00009
%RSD	325.09	2.4617	29.237	.03768	.05087
#1	.00071	.59771	.00354	3.2550	.17200
#2	-.00028	.57725	.00233	3.2568	.17212
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00002**	**306.53**	**-.00013**	**.0396**	**-.00007**
Stddev	.00007	1.15	.00013	.0132	.00014
%RSD	423.40	.37408	96.852	33.37	200.73
#1	.00003	307.34	-.00022	.0489	-.00017
#2	-.00007	305.72	-.00004	.0303	.00003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00054**	**.00297**	**.06436**	**124.28**	**.20654**
Stddev	.00011	.00043	.00063	.01	.00199
%RSD	21.016	14.454	.97798	.00881	.96341
#1	.00046	.00328	.06481	124.29	.20514
#2	.00062	.00267	.06392	124.27	.20795
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-7-A Acquired: 8/16/2021 23:07:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.05945**	**-.00297**	**.07618**	**576.42**	**.01176**
Stddev	.00229	.00003	.00003	1.97	.00020
%RSD	3.8456	.91081	.04065	.34242	1.7351
#1	.06107	-.00295	.07615	575.02	.01190
#2	.05783	-.00299	.07620	577.81	.01161
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**-.00048**	**30.27**	**-.00336**	**-.01553**
Stddev	-----	.00049	.01	.00007	.00060
%RSD	-----	102.75	.0210	2.0424	3.8873
#1	z 316.9	-.00013	30.26	-.00341	-.01510
#2	z 316.6	-.00083	30.27	-.00331	-.01595
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**1.0636**	**-.00060**	**.64282**	**-.0035**	**.00179**
Stddev	.0044	.00044	.00317	.0031	.00117
%RSD	.41009	74.061	.49297	89.37	65.083
#1	1.0667	-.00029	.64058	-.0057	.00262
#2	1.0605	-.00091	.64507	-.0013	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-7-A Acquired: 8/16/2021 23:07:30 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00070**	**.00183**	**.00900**	**.0004**
Stddev	.00132	.00043	.00077	.0025
%RSD	188.15	23.235	8.4993	615.5
#1	-.00023	.00153	.00954	.0022
#2	.00163	.00213	.00846	-.0014
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2920.4**	**2517.0**	**52633.**	**2602.4**
Stddev	7.0	3.3	145.	3.4
%RSD	.23979	.13043	.27479	.12943
#1	2925.3	2519.3	52735.	2604.7
#2	2915.4	2514.6	52531.	2600.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	77.734%	87.813%	87.105%	96.100%
Range				

Sample Name: 480-188311-E-8-A Acquired: 8/16/2021 23:11:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00018**	**.11139**	**.00361**	**.05066**	**.05134**
Stddev	.00057	.02657	.00071	.00003	.00001
%RSD	310.65	23.849	19.688	.06066	.01267
#1	-.00022	.09261	.00311	.05068	.05133
#2	.00058	.13018	.00412	.05064	.05134
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**16.617**	**-.00009**	**-.0003**	**.00010**
Stddev	.00004	.002	.00003	.0081	.00025
%RSD	114.27	.00996	34.509	2753.	254.28
#1	-.00007	16.618	-.00007	.0054	-.00008
#2	-.00001	16.616	-.00011	-.0060	.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00120**	**.00040**	**.02748**	**21.257**	**.06704**
Stddev	.00015	.00045	.00386	.009	.00139
%RSD	12.210	111.55	14.045	.04013	2.0664
#1	.00110	.00008	.03021	21.263	.06802
#2	.00131	.00072	.02475	21.251	.06606
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-8-A Acquired: 8/16/2021 23:11:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.38118**	**-.00263**	**.10907**	**241.43**	**.01310**
Stddev	.00107	.00002	.00000	.09	.00049
%RSD	.28091	.80796	.00315	.03868	3.7090
#1	.38193	-.00261	.10907	241.37	.01276
#2	.38042	-.00264	.10907	241.50	.01345
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00201**	**31.71**	**-.00150**	**-.00943**
Stddev	-----	.00094	.02	.00191	.00061
%RSD	-----	46.907	.0735	127.62	6.5074
#1	z 198.2	.00134	31.69	-.00015	-.00986
#2	z 198.6	.00267	31.73	-.00285	-.00900
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**27.201**	**-.00099**	**.29102**	**-.0073**	**.00221**
Stddev	.213	.00005	.00021	.0125	.00057
%RSD	.78134	4.6154	.07337	171.0	25.852
#1	27.051	-.00096	.29117	-.0162	.00180
#2	27.351	-.00103	.29087	.0015	.00261
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188311-E-8-A Acquired: 8/16/2021 23:11:32 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00020**	**.00333**	**.00513**	**.0025**
Stddev	.00003	.00005	.00044	.0010
%RSD	12.988	1.5288	8.5586	40.67
#1	-.00021	.00336	.00544	.0033
#2	-.00018	.00329	.00482	.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3284.1**	**2692.4**	**56570.**	**2683.7**
Stddev	6.8	6.2	9.	25.5
%RSD	.20577	.23133	.01660	.94911
#1	3288.9	2696.8	56577.	2701.7
#2	3279.3	2688.0	56563.	2665.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	87.416%	93.933%	93.621%	99.104%
Range				

Sample Name: 480-188313-E-1-A Acquired: 8/16/2021 23:15:23 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00045**	**1.2431**	**.02014**	**.08837**	**.02589**
Stddev	.00003	.0087	.00264	.00021	.00005
%RSD	7.1630	.70301	13.105	.23577	.18707
#1	.00043	1.2370	.01828	.08822	.02593
#2	.00047	1.2493	.02201	.08852	.02586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00004**	**64.244**	**.00001**	**.0297**	**.00056**
Stddev	.00000	.240	.00003	.0306	.00017
%RSD	1.0598	.37361	217.42	103.0	29.516
#1	-.00004	64.074	.00004	.0514	.00044
#2	-.00004	64.413	-.00001	.0081	.00068
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**.00038**	**.02516**	**23.883**	**.00410**
Stddev	.00025	.00022	.00535	.003	.00077
%RSD	427.53	57.133	21.278	.01292	18.865
#1	-.00023	.00054	.02137	23.881	.00464
#2	.00012	.00023	.02894	23.885	.00355
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188313-E-1-A Acquired: 8/16/2021 23:15:23 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03353**	F **-.00371**	**.10071**	**213.67**	**.02901**
Stddev	.00036	.00003	.00006	.66	.00004
%RSD	1.0791	.84479	.05786	.30838	.15223
#1	.03327	-.00369	.10067	213.20	.02904
#2	.03378	-.00373	.10075	214.14	.02898
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00200**	**17.81**	**-.00028**	**-.00793**
Stddev	-----	.00009	.02	.00036	.00404
%RSD	-----	4.3685	.1181	126.42	50.977
#1	z 252.5	.00194	17.80	-.00054	-.00507
#2	z 252.3	.00207	17.83	-.00003	-.01079
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.574**	**-.00073**	**2.0608**	**-.0014**	**.00046**
Stddev	.126	.00038	.0043	.0053	.00002
%RSD	.92555	52.277	.20959	389.9	4.7975
#1	13.485	-.00100	2.0577	-.0051	.00045
#2	13.663	-.00046	2.0638	.0024	.00048
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188313-E-1-A Acquired: 8/16/2021 23:15:23 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00923**	**.00504**	**.0016**
Stddev	.00079	.00046	.00009	.0007
%RSD	318.40	4.9607	1.8070	40.31
#1	.00081	.00891	.00510	.0012
#2	-.00031	.00956	.00497	.0021
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3245.1**	**2665.7**	**56164.**	**2673.3**
Stddev	2.8	2.1	19.	15.2
%RSD	.08737	.07910	.03301	.56941
#1	3243.1	2664.2	56177.	2684.1
#2	3247.1	2667.2	56151.	2662.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.376%	93.001%	92.949%	98.719%
Range				

Sample Name: 480-188313-E-2-A Acquired: 8/16/2021 23:19:13 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00014**	**1.3186**	**.01257**	**.06280**	**.78219**
Stddev	.00040	.0164	.00210	.00003	.00201
%RSD	277.27	1.2461	16.704	.04917	.25684
#1	-.00043	1.3069	.01108	.06278	.78362
#2	.00014	1.3302	.01405	.06282	.78077
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**235.14**	**-.00013**	**.0071**	**.00008**
Stddev	.00003	.07	.00008	.0017	.00029
%RSD	46.028	.03173	62.886	24.50	363.83
#1	-.00008	235.08	-.00007	.0083	-.00012
#2	-.00004	235.19	-.00019	.0059	.00028
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00037**	**.00144**	**.00334**	**29.317**	**.03371**
Stddev	.00025	.00018	.00196	.012	.00027
%RSD	66.615	12.746	58.544	.04028	.81069
#1	.00020	.00131	.00196	29.325	.03351
#2	.00055	.00157	.00473	29.309	.03390
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188313-E-2-A Acquired: 8/16/2021 23:19:13 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00656**	F **-.00387**	**.06143**	**161.65**	**.01480**
Stddev	.00018	.00004	.00006	.21	.00013
%RSD	2.6937	1.0590	.09164	.12828	.84786
#1	.00643	-.00384	.06139	161.50	.01471
#2	.00668	-.00390	.06147	161.80	.01488
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00062**	**15.49**	**-.00259**	**-.01277**
Stddev	-----	.00000	.01	.00056	.00085
%RSD	-----	.47045	.0452	21.653	6.6196
#1	z 216.8	.00062	15.49	-.00299	-.01218
#2	z 217.0	.00062	15.48	-.00220	-.01337
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**3.1748**	**-.00059**	**2.1705**	**.0057**	**.00065**
Stddev	.0100	.00034	.0069	.0041	.00014
%RSD	.31353	56.643	.31580	72.57	21.261
#1	3.1677	-.00036	2.1753	.0028	.00055
#2	3.1818	-.00083	2.1656	.0086	.00075
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188313-E-2-A Acquired: 8/16/2021 23:19:13 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00025**	**.00408**	**.00638**	**-.0003**
Stddev	.00104	.00045	.00035	.0001
%RSD	416.53	11.126	5.5429	22.14
#1	.00098	.00376	.00613	-.0003
#2	-.00048	.00441	.00663	-.0003
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3168.1**	**2626.1**	**55466.**	**2646.7**
Stddev	7.5	6.3	22.	.5
%RSD	.23585	.24001	.03882	.01894
#1	3162.8	2621.7	55482.	2646.4
#2	3173.4	2630.6	55451.	2647.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	84.328%	91.622%	91.794%	97.738%
Range				

Sample Name: 480-188313-E-3-A Acquired: 8/16/2021 23:23:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**1.2586**	**.02028**	**.08960**	**.02618**
Stddev	.00032	.0471	.00481	.00010	.00013
%RSD	526.37	3.7439	23.697	.11539	.48267
#1	-.00016	1.2252	.01688	.08953	.02610
#2	.00029	1.2919	.02368	.08967	.02627
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00006**	**64.963**	**-.00003**	**.0025**	**.00055**
Stddev	.00000	.143	.00001	.0094	.00008
%RSD	1.1928	.21980	29.902	370.0	14.103
#1	-.00006	64.862	-.00004	.0091	.00061
#2	-.00006	65.064	-.00002	-.0041	.00050
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00032**	**.00036**	**.03002**	**24.149**	**.00465**
Stddev	.00030	.00030	.00335	.016	.00219
%RSD	94.702	81.816	11.154	.06516	47.084
#1	.00011	.00015	.02765	24.160	.00310
#2	.00053	.00057	.03239	24.137	.00620
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188313-E-3-A Acquired: 8/16/2021 23:23:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.03561**	F **-.00370**	**.10225**	**216.07**	**.02924**
Stddev	.00123	.00002	.00011	.05	.00007
%RSD	3.4494	.56446	.10943	.02416	.25363
#1	.03648	-.00368	.10217	216.03	.02929
#2	.03475	-.00371	.10232	216.11	.02918
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		45.000			
Low Limit		-.00300			

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00187**	**18.97**	**-.00041**	**-.00508**
Stddev	-----	.00042	.01	.00162	.00247
%RSD	-----	22.587	.0657	392.33	48.741
#1	z 253.9	.00217	18.96	-.00156	-.00333
#2	z 253.0	.00157	18.98	.00073	-.00683
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**13.652**	**-.00094**	**2.0847**	**.0087**	**.00072**
Stddev	.039	.00004	.0060	.0051	.00008
%RSD	.28622	4.2524	.28745	58.29	11.539
#1	13.625	-.00091	2.0805	.0051	.00077
#2	13.680	-.00097	2.0890	.0123	.00066
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188313-E-3-A Acquired: 8/16/2021 23:23:11 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00095**	**.00950**	**.00560**	**.0031**
Stddev	.00029	.00020	.00013	.0008
%RSD	31.131	2.0595	2.4013	26.23
#1	.00116	.00937	.00550	.0025
#2	.00074	.00964	.00569	.0036
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3238.7**	**2660.4**	**56300.**	**2690.6**
Stddev	3.8	5.1	188.	11.0
%RSD	.11802	.19021	.33411	.40892
#1	3241.4	2664.0	56433.	2698.4
#2	3236.0	2656.9	56167.	2682.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.206%	92.818%	93.174%	99.357%
Range				

Sample Name: 480-188270-L-1-A Acquired: 8/16/2021 23:27:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00004**	**.12657**	**.00157**	**1.2918**	**.12751**
Stddev	.00010	.02747	.00311	.0007	.00003
%RSD	246.81	21.702	198.59	.05549	.02456
#1	.00011	.10715	-.00063	1.2923	.12753
#2	-.00003	.14599	.00376	1.2913	.12749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00001**	**125.00**	**.00029**	**-.0307**	**.00330**
Stddev	.00003	.54	.00012	.0236	.00008
%RSD	317.27	.43465	42.766	76.74	2.3267
#1	.00003	124.62	.00037	-.0473	.00336
#2	-.00001	125.39	.00020	-.0140	.00325
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00198**	**.01655**	**.14708**	**27.153**	**.00564**
Stddev	.00005	.00017	.00293	.034	.00031
%RSD	2.3175	1.0166	1.9903	.12544	5.5451
#1	.00202	.01643	.14501	27.129	.00542
#2	.00195	.01667	.14915	27.177	.00586
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188270-L-1-A Acquired: 8/16/2021 23:27:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**31.324**	**.23321**	**-.00027**	**107.79**	**.01503**
Stddev	.090	.00026	.00020	.48	.00005
%RSD	.28770	.11159	71.547	.44248	.32682
#1	31.260	.23303	-.00014	107.46	.01507
#2	31.387	.23340	-.00041	108.13	.01500
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00091**	**15.46**	**-.00040**	**-.01074**
Stddev	-----	.00007	.00	.00094	.00170
%RSD	-----	7.6389	.0033	235.48	15.811
#1	z 198.5	.00086	15.46	-.00106	-.01194
#2	z 197.7	.00096	15.46	.00027	-.00954
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**6.9427**	**-.00098**	**.71169**	**-.0003**	**.00266**
Stddev	.0350	.00019	.00237	.0138	.00051
%RSD	.50404	19.816	.33316	5346.	18.998
#1	6.9180	-.00084	.71001	-.0100	.00230
#2	6.9675	-.00112	.71336	.0095	.00302
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188270-L-1-A Acquired: 8/16/2021 23:27:02 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00218**	**.00041**	**.02665**	**.0008**
Stddev	.00069	.00004	.00035	.0002
%RSD	31.769	9.6091	1.3172	27.16
#1	.00169	.00039	.02641	.0006
#2	.00266	.00044	.02690	.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3261.6**	**2656.7**	**56523.**	**2652.8**
Stddev	1.3	.9	52.	5.8
%RSD	.03865	.03359	.09271	.21880
#1	3262.5	2656.1	56486.	2657.0
#2	3260.7	2657.4	56560.	2648.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.817%	92.689%	93.543%	97.964%
Range				

Sample Name: CCV-6611925 Acquired: 8/16/2021 23:30:53 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0540**	**53.879**	**1.0554**	**1.0554**	**1.0241**	**1.0592**	**54.067**	**1.0445**
Stddev	.0028	.086	.0003	.0015	.0017	.0029	.153	.0011
%RSD	.26500	.15946	.02897	.14387	.16200	.27668	.28273	.10424
#1	1.0520	53.819	1.0556	1.0565	1.0230	1.0572	53.959	1.0453
#2	1.0559	53.940	1.0551	1.0543	1.0253	1.0613	54.176	1.0437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.041**	**1.0185**	**1.0731**	**1.0323**	**53.273**	**52.363**	**1.0528**	**52.811**
Stddev	.006	.0000	.0004	.0015	.111	.089	.0014	.023
%RSD	.5666	.00009	.03955	.14554	.20766	.16971	.12868	.04371
#1	1.045	1.0185	1.0728	1.0333	53.194	52.300	1.0538	52.827
#2	1.036	1.0185	1.0734	1.0312	53.351	52.426	1.0519	52.794
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**1.0473**	**1.0929**	**52.641**	**1.0408**	z *****	**1.0326**	**26.39**	**1.0891**
Stddev	.0007	.0052	.095	.0005	-----	.0011	.03	.0057
%RSD	.06468	.47593	.18111	.04878	-----	.10675	.0984	.52113
#1	1.0478	1.0892	52.574	1.0404	z 9532.	1.0333	26.41	1.0851
#2	1.0468	1.0966	52.708	1.0411	z 9567.	1.0318	26.37	1.0931
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 23:30:53 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0668**	**10.694**	**1.0258**	**1.0501**	**1.013**	**1.0542**	**1.0447**	**1.0621**
Stddev	.0005	.013	.0029	.0006	.026	.0034	.0003	.0014
%RSD	.04385	.12273	.28193	.05278	2.589	.31757	.02968	.13068
#1	1.0665	10.685	1.0278	1.0497	.9947	1.0518	1.0450	1.0611
#2	1.0672	10.704	1.0237	1.0505	1.032	1.0565	1.0445	1.0631
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**1.0725**	**1.024**
Stddev	.0020	.004
%RSD	.18546	.4186
#1	1.0711	1.027
#2	1.0739	1.021
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3256.6**	**2727.0**	**56644.**	**2611.9**
Stddev	12.4	8.9	118.	8.0
%RSD	.37953	.32662	.20781	.30449
#1	3247.9	2720.7	56728.	2617.5
#2	3265.4	2733.3	56561.	2606.2

Sample Name: CCB-6615058 Acquired: 8/16/2021 23:34:32 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00055**	**.00474**	**.00131**	**-.00031**	**.00008**	**.00001**	**.00005**	**-.00021**
Stddev	.00058	.01202	.00163	.00007	.00002	.00009	.00466	.00008
%RSD	104.30	253.67	124.55	23.323	28.641	1663.3	9535.5	36.996
#1	.00015	.01323	.00016	-.00026	.00007	.00007	-.00324	-.00016
#2	.00096	-.00376	.00246	-.00036	.00010	-.00006	.00334	-.00027
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0214**	**-.00002**	**-.00003**	**.00022**	**.00301**	**-.06507**	**-.00189**	**-.00318**
Stddev	.0055	.00004	.00006	.00031	.00545	.00638	.00024	.00321
%RSD	25.76	153.19	214.60	139.71	180.78	9.8116	12.865	100.84
#1	.0175	-.00005	.00001	.00044	-.00084	-.06056	-.00172	-.00091
#2	.0252	.00000	-.00006	.00000	.00687	-.06959	-.00206	-.00545
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00009**	**.00485**	**.03096**	**-.00003**	z *****	**.00026**	**-.0127**	**-.00088**
Stddev	.00009	.00112	.00494	.00004	-----	.00007	.0014	.00068
%RSD	95.966	23.021	15.957	141.63	-----	27.389	11.15	77.239
#1	-.00016	.00564	.02747	.00000	z 142.2	.00021	-.0137	-.00040
#2	-.00003	.00406	.03446	-.00006	z 142.4	.00031	-.0117	-.00135
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/16/2021 23:34:32 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.00004	-.00416	-.00025	.00002	-.0017	.00017	-.00029	-.00012
Stddev	.00183	.04035	.00026	.00004	.0110	.00018	.00033	.00004
%RSD	4143.5	968.88	103.00	182.72	650.2	106.74	110.70	29.476
#1	-.00125	.02437	-.00007	-.00001	-.0095	.00030	-.00006	-.00015
#2	.00134	-.03269	-.00044	.00006	.0061	.00004	-.00052	-.00010
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00018	-.0003
Stddev	.00023	.0011
%RSD	126.79	372.1
#1	.00002	-.0011
#2	.00034	.0005
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3832.3	2843.2	61191.	2660.2
Stddev	1.3	6.0	202.	5.1
%RSD	.03451	.21142	.33090	.19072
#1	3833.2	2847.4	61047.	2663.8
#2	3831.4	2838.9	61334.	2656.6

Sample Name: CCVL-6615375 Acquired: 8/16/2021 23:38:27 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00650**	**.19686**	**.01429**	**.01720**	**.00200**	**.00195**	**.49515**	**.00184**
Stddev	.00037	.00060	.00207	.00015	.00002	.00006	.00622	.00007
%RSD	5.6547	.30291	14.466	.85314	.81022	2.8405	1.2555	3.5706
#1	.00624	.19728	.01283	.01730	.00199	.00199	.49075	.00179
#2	.00676	.19644	.01575	.01709	.00202	.00191	.49955	.00188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0139**	**.00367**	**.00411**	**.00927**	**.04773**	**.41305**	**.02618**	**.19767**
Stddev	.0037	.00016	.00009	.00007	.00384	.00521	.00019	.00044
%RSD	26.46	4.4375	2.2677	.74998	8.0388	1.2615	.72325	.22108
#1	.0166	.00355	.00418	.00922	.05044	.40936	.02605	.19736
#2	.0113	.00378	.00405	.00932	.04501	.41673	.02631	.19798
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**.00315**	**.00810**	**1.0046**	**.00931**	z *****	**.00909**	**.1700**	**.01883**
Stddev	.00002	.00024	.0131	.00020	-----	.00082	.0018	.00095
%RSD	.74633	2.9533	1.3040	2.1033	-----	9.0615	1.072	5.0716
#1	.00316	.00827	.99536	.00944	z 140.9	.00851	.1713	.01951
#2	.00313	.00794	1.0139	.00917	z 142.6	.00967	.1687	.01815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCVL-6615375 Acquired: 8/16/2021 23:38:27 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.02027	.46419	.00811	.00467	-.0033	.00457	.01890	.00460
Stddev	.00012	.02505	.00023	.00003	.0059	.00023	.00015	.00011
%RSD	.59823	5.3961	2.8005	.55340	181.6	4.9918	.81617	2.3263
#1	.02018	.48190	.00827	.00469	.0009	.00441	.01901	.00452
#2	.02035	.44648	.00795	.00466	-.0075	.00473	.01879	.00467
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	.00917	.0010
Stddev	.00034	.0015
%RSD	3.7396	152.1
#1	.00893	-.0001
#2	.00941	.0020
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3822.6	2855.5	61051.	2662.5
Stddev	2.9	7.6	26.	.8
%RSD	.07712	.26482	.04199	.02861
#1	3820.5	2850.2	61069.	2662.0
#2	3824.7	2860.9	61033.	2663.0

Sample Name: 480-188315-M-1-A Acquired: 8/16/2021 23:42:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00012**	**.03897**	**-.00198**	**.09466**	**.03890**
Stddev	.00039	.00631	.00090	.00130	.00001
%RSD	338.13	16.190	45.241	1.3690	.03472
#1	.00016	.04343	-.00135	.09374	.03889
#2	-.00040	.03451	-.00261	.09558	.03891
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00006**	**219.44**	**.00006**	**-.0091**	**-.00003**
Stddev	.00008	.29	.00003	.0113	.00015
%RSD	126.95	.13107	49.175	123.8	470.79
#1	.00001	219.64	.00004	-.0171	.00007
#2	.00012	219.23	.00009	-.0011	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00036**	**.00424**	**.10149**	**7.8579**	**.01236**
Stddev	.00013	.00052	.00288	.0043	.00131
%RSD	35.260	12.241	2.8335	.05536	10.606
#1	.00027	.00387	.09946	7.8548	.01143
#2	.00045	.00460	.10352	7.8609	.01328
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188315-M-1-A Acquired: 8/16/2021 23:42:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**51.941**	**.02349**	**-.00232**	**42.795**	**.00156**
Stddev	.261	.00009	.00023	.076	.00015
%RSD	.50239	.38651	9.7161	.17865	9.8362
#1	51.756	.02343	-.00248	42.849	.00167
#2	52.125	.02355	-.00216	42.741	.00145
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00006**	F **104.3**	**-.00261**	**-.01000**
Stddev	-----	.00058	.0	.00098	.00043
%RSD	-----	977.07	.0457	37.298	4.3046
#1	z 185.6	-.00035	104.3	-.00192	-.00970
#2	z 186.4	.00047	104.3	-.00330	-.01031
Check ?	None	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit			90.00		
Low Limit			-.2000		

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**10.368**	**-.00107**	**.72733**	**-.0102**	**.00121**
Stddev	.020	.00080	.00016	.0049	.00034
%RSD	.18865	74.623	.02254	48.32	27.961
#1	10.381	-.00164	.72721	-.0067	.00145
#2	10.354	-.00051	.72745	-.0136	.00097
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188315-M-1-A Acquired: 8/16/2021 23:42:21 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00097**	**.00006**	**.00336**	**.0030**
Stddev	.00089	.00041	.00042	.0006
%RSD	92.236	699.40	12.444	21.21
#1	.00160	-.00023	.00307	.0034
#2	.00034	.00035	.00366	.0025
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3258.6**	**2616.4**	**55846.**	**2633.7**
Stddev	2.8	.4	112.	3.9
%RSD	.08510	.01573	.20014	.14761
#1	3256.7	2616.1	55925.	2631.0
#2	3260.6	2616.7	55767.	2636.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	86.737%	91.283%	92.422%	97.258%
Range				

Sample Name: 480-188256-C-1-A Acquired: 8/16/2021 23:46:12 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.16762**	**.15669**	**12.217**	**.27575**
Stddev	.00017	.00950	.00225	.039	.00050
%RSD	46.104	5.6689	1.4379	.31727	.18242
#1	.00025	.16090	.15510	12.189	.27611
#2	.00050	.17434	.15829	12.244	.27539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.00000**	**111.16**	**.00001**	**.0196**	**.03275**
Stddev	.00005	.17	.00020	.0168	.00014
%RSD	4376.7	.15701	2328.0	85.48	.42766
#1	.00003	111.28	.00015	.0078	.03265
#2	-.00003	111.03	-.00013	.0315	.03285
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28418**	**.00262**	**5.8651**	**371.88**	**.17380**
Stddev	.00066	.00018	.0203	3.35	.00144
%RSD	.23349	6.6912	.34675	.89960	.83019
#1	.28371	.00250	5.8508	374.24	.17482
#2	.28465	.00274	5.8795	369.51	.17278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188256-C-1-A Acquired: 8/16/2021 23:46:12 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na8183	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	818.326 { 41}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**171.05**	**.72537**	**.00716**	F **1768.7**	**.26132**
Stddev	.07	.00218	.00043	5.4	.00025
%RSD	.03841	.30087	5.9540	.30678	.09437
#1	171.00	.72383	.00686	1772.5	.26150
#2	171.10	.72692	.00747	1764.9	.26115
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit				900.00	
Low Limit				-1.0000	

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.00240**	**33.01**	**.01796**	**-.01170**
Stddev	-----	.00197	.02	.00053	.00365
%RSD	-----	82.075	.0531	2.9561	31.217
#1	z 2241.	.00101	32.99	.01759	-.01428
#2	z 2240.	.00379	33.02	.01834	-.00912
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**32.697**	**.07693**	**1.2392**	**.0075**	**.31657**
Stddev	.038	.00031	.0022	.0107	.00034
%RSD	.11771	.39761	.17474	142.9	.10720
#1	32.669	.07672	1.2408	-.0001	.31681
#2	32.724	.07715	1.2377	.0151	.31633
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188256-C-1-A Acquired: 8/16/2021 23:46:12 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**.00082**	**.13058**	**.03450**	**.0741**
Stddev	.00026	.00010	.00173	.0011
%RSD	31.304	.07870	5.0111	1.535
#1	.00100	.13050	.03328	.0733
#2	.00064	.13065	.03573	.0749
Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2615.7**	**2319.5**	**47655.**	**2558.9**
Stddev	6.0	6.3	5.	4.8
%RSD	.22849	.27103	.00969	.18732
#1	2619.9	2323.9	47651.	2562.3
#2	2611.5	2315.0	47658.	2555.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	69.623%	80.923%	78.866%	94.493%
Range				

Sample Name: 480-188296-C-1-A@100 Acquired: 8/16/2021 23:50:08 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2
Line	328.068 {103}	308.215 {109}	189.042 {478}	208.959 {461}	455.403 { 74}2
IS Ref	(Y_3600)	(Y_3774)	(Y_2243)	(Y_2243)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00016**	**.04995**	**.00755**	**.01706**	**.00055**
Stddev	.00023	.01347	.00111	.00134	.00001
%RSD	143.23	26.967	14.644	7.8568	1.3429
#1	.00033	.04042	.00833	.01801	.00055
#2	-.00000	.05947	.00677	.01611	.00054
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Be3130	Ca3179	Cd2288	**Ce4040	Co2286
Line	313.042 {108}	317.933 {106}	228.802 {447}	404.076 { 83}	228.616 {447}
IS Ref	(Y_3774)	(Y_3774)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.00643**	**.23617**	**.00056**	**-.0205**	**.00338**
Stddev	.00014	.00244	.00005	.0029	.00008
%RSD	2.0991	1.0336	8.0012	14.04	2.4095
#1	.00634	.23790	.00053	-.0225	.00332
#2	.00653	.23445	.00060	-.0184	.00344
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Cr2677	Cu3273	Fe2599	K_7664	Li6707
Line	267.716 {126}	327.396 {103}	259.940 {130}	766.490 { 44}	670.784 { 50}
IS Ref	(Y_3600)	(Y_3600)	(Y_3774)	(Y_3774)	(Y_3774)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.28445**	**.37825**	**31.625**	**3.4309**	**.00112**
Stddev	.00040	.00246	.046	.0123	.00115
%RSD	.14166	.65060	.14552	.35828	102.69
#1	.28417	.37651	31.657	3.4396	.00193
#2	.28474	.37999	31.592	3.4222	.00031
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188296-C-1-A@100 Acquired: 8/16/2021 23:50:08 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316
Line	279.079 {121}2	257.610 {131}3	202.030 {467}	589.592 { 57}	231.604 {446}
IS Ref	(Y_3600)	(Y_3600)	(Y_2243)	(Y_3774)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.07118**	**.28655**	**.00526**	**6.8717**	**.07048**
Stddev	.00393	.00062	.00015	.0015	.00026
%RSD	5.5193	.21598	2.9059	.02215	.36607
#1	.06840	.28612	.00537	6.8728	.07029
#2	.07396	.28699	.00516	6.8706	.07066
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	P_2136	Pb2203	S_1820	Sb2068	Se1960
Line	213.618 {458}	220.353 {453}	182.034 {485}	206.833 {463}	196.090 {472}
IS Ref	(none)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	ppm	ppm	ppm	ppm
Avg	z *****	**.01000**	**1.584**	**.00053**	**-.00132**
Stddev	-----	.00065	.000	.00017	.00074
%RSD	-----	6.5450	.0161	31.229	56.475
#1	z 205.5	.01046	1.585	.00041	-.00184
#2	z 205.6	.00954	1.584	.00065	-.00079
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Elem	Si2881	Sn1899	Sr4077	Th2837	Ti3349
Line	288.158 {117}2	189.989 {477}	407.771 { 83}	283.730 {119}	334.904 {101}
IS Ref	(Y_3774)	(In2306)	(Y_3774)	(none)	(Y_3600)
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.21801**	**.00383**	**.00203**	**.0215**	**.01194**
Stddev	.02422	.00033	.00005	.0019	.00027
%RSD	11.109	8.7019	2.6802	8.882	2.3001
#1	.23513	.00407	.00200	.0228	.01175
#2	.20088	.00360	.00207	.0201	.01214
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit					
Low Limit					

Sample Name: 480-188296-C-1-A@100 Acquired: 8/16/2021 23:50:08 Type: Unk
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062	Zr3438
Line	190.856 {477}	292.402 {115}	206.200 {163}	343.823 { 98}
IS Ref	(In2306)	(Y_3600)	(Y_3600)	(none)
Units	ppm	ppm	ppm	ppm
Avg	**-.00022**	**.00497**	F **20.013**	**.0012**
Stddev	.00105	.00022	.018	.0006
%RSD	475.41	4.4516	.09235	47.94
#1	.00052	.00513	20.000	.0016
#2	-.00097	.00481	20.026	.0008
Check ?	Chk Pass	Chk Pass	Chk Fail	None
High Limit			18.000	
Low Limit			-.01000	
Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Line	230.606 {446}	224.306 {450}	360.073 { 94}	377.433 { 89}
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3693.1**	**2803.9**	**60318.**	**2668.1**
Stddev	11.2	8.6	93.	3.2
%RSD	.30439	.30530	.15373	.11857
#1	3685.1	2797.8	60384.	2665.9
#2	3701.0	2809.9	60253.	2670.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value	98.301%	97.823%	99.824%	98.528%
Range				

Sample Name: CCVL-6615375 Acquired: 8/16/2021 23:54:00 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00580**	**.18909**	**.01413**	**.02227**	**.00197**	**.00202**	**.50019**
Stddev	.00047	.00203	.00035	.00089	.00002	.00008	.00250
%RSD	8.0659	1.0725	2.4935	3.9987	.82786	3.8742	.49922
#1	.00547	.19053	.01438	.02290	.00198	.00208	.49843
#2	.00614	.18766	.01389	.02164	.00196	.00197	.50196
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Cd2288	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00196**	**-.0058**	**.00359**	**.00423**	**.00887**	**.05355**	**.48913**
Stddev	.00003	.0252	.00004	.00000	.00010	.00012	.00512
%RSD	1.3523	431.6	1.2024	.01281	1.1409	.22879	1.0473
#1	.00194	-.0237	.00363	.00423	.00894	.05364	.49275
#2	.00197	.0120	.00356	.00423	.00879	.05347	.48551
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Li6707	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	P_2136
Units	ppm	ppm	ppm	ppm	ppm	ppm	Cts/S
Avg	**.02628**	**.19294**	**.00294**	W **.00624**	**1.0518**	**.00931**	z *****
Stddev	.00072	.00020	.00005	.00012	.0066	.00001	-----
%RSD	2.7349	.10251	1.8394	1.9666	.62850	.13738	-----
#1	.02577	.19308	.00291	.00633	1.0472	.00930	z 142.1
#2	.02679	.19280	.00298	.00616	1.0565	.00932	z 143.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Warn	Chk Pass	Chk Pass	None
Value				.01000			
Range				-30.000%			

Sample Name: CCVL-6615375 Acquired: 8/16/2021 23:54:00 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Pb2203	S_1820	Sb2068	Se1960	Si2881	Sn1899	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00862**	**.1766**	**.01956**	**.02009**	**.53801**	**.00804**	**.00474**
Stddev	.00037	.0029	.00093	.00224	.00506	.00019	.00006
%RSD	4.2753	1.649	4.7293	11.133	.93982	2.4231	1.3671
#1	.00836	.1745	.01891	.01851	.53443	.00790	.00470
#2	.00888	.1786	.02022	.02167	.54158	.00818	.00479
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Th2837	Ti3349	Tl1908	V_2924	Zn2062	Zr3438
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0006**	**.00442**	**.01907**	**.00451**	**.00986**	**-.0002**
Stddev	.0147	.00032	.00066	.00053	.00050	.0015
%RSD	2646.	7.2680	3.4736	11.727	5.0415	677.8
#1	.0098	.00465	.01954	.00413	.00951	.0008
#2	-.0109	.00419	.01860	.00488	.01022	-.0012
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3803.5**	**2832.4**	**61282.**	**2668.3**
Stddev	5.6	5.4	57.	9.8
%RSD	.14634	.19154	.09336	.36655
#1	3799.5	2828.6	61323.	2675.2
#2	3807.4	2836.3	61242.	2661.4

Sample Name: CCV-6611925 Acquired: 8/16/2021 23:57:54 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.0533**	**53.603**	**1.0567**	**1.0575**	**1.0135**	**1.0523**	**53.947**	**1.0453**
Stddev	.0004	.144	.0087	.0024	.0043	.0034	.187	.0021
%RSD	.03938	.26846	.82532	.22581	.42533	.32348	.34740	.20399
#1	1.0536	53.704	1.0628	1.0592	1.0104	1.0499	53.814	1.0468
#2	1.0530	53.501	1.0505	1.0558	1.0165	1.0547	54.079	1.0438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2714	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.010**	**1.0171**	**1.0721**	**1.0300**	**52.498**	**52.204**	**1.0373**	**52.656**
Stddev	.012	.0001	.0033	.0015	.135	.249	.0049	.340
%RSD	1.151	.00715	.31131	.15074	.25687	.47657	.47226	.64649
#1	1.002	1.0172	1.0697	1.0289	52.593	52.028	1.0338	52.415
#2	1.019	1.0171	1.0745	1.0311	52.403	52.380	1.0408	52.896
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**1.0427**	**1.0928**	**52.160**	**1.0413**	z *****	**1.0339**	**26.43**	**1.0889**
Stddev	.0041	.0030	.165	.0004	-----	.0016	.06	.0057
%RSD	.39608	.27059	.31641	.04101	-----	.15453	.2199	.51957
#1	1.0398	1.0907	52.044	1.0410	z 9502.	1.0351	26.48	1.0929
#2	1.0456	1.0949	52.277	1.0416	z 9514.	1.0328	26.39	1.0849
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Sample Name: CCV-6611925 Acquired: 8/16/2021 23:57:54 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.0657	10.664	1.0299	1.0402	1.014	1.0549	1.0436	1.0598
Stddev	.0012	.041	.0004	.0043	.009	.0017	.0001	.0000
%RSD	.11194	.38661	.03582	.41045	.8447	.16491	.01292	.00338
#1	1.0666	10.635	1.0297	1.0372	1.020	1.0537	1.0437	1.0599
#2	1.0649	10.693	1.0302	1.0433	1.008	1.0562	1.0435	1.0598
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
Value								
Range								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	1.0677	1.030
Stddev	.0054	.001
%RSD	.50287	.0519
#1	1.0639	1.031
#2	1.0715	1.030
Check ?	Chk Pass	None
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3245.9	2714.6	56895.	2642.7
Stddev	6.0	7.8	394.	12.1
%RSD	.18618	.28871	.69299	.45630
#1	3241.6	2709.1	57173.	2651.3
#2	3250.2	2720.2	56616.	2634.2

Sample Name: CCB-6615058 Acquired: 8/17/2021 0:01:35 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	B_2089	Ba4554-2	Be3130	Ca3179	Cd2288
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00019**	**.00608**	**.00171**	**.00180**	**.00009**	**-.00002**	**-.00176**	**-.00020**
Stddev	.00042	.00768	.00019	.00014	.00002	.00004	.00378	.00003
%RSD	219.11	126.21	10.835	7.7994	17.752	244.25	214.78	14.434
#1	.00049	.00065	.00158	.00190	.00010	.00001	.00091	-.00022
#2	-.00011	.01151	.00184	.00170	.00008	-.00004	-.00443	-.00018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	**Ce4040	Co2286	Cr2677	Cu3273	Fe2599	K_7664	Li6707	Mg2790
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.00002**	**-.00003**	**-.00007**	**.00532**	**-.02713**	**-.00277**	**-.00011**
Stddev	.0132	.00007	.00002	.00009	.00237	.01933	.00001	.00159
%RSD	810.8	437.36	47.363	131.87	44.524	71.251	.38089	1485.4
#1	.0109	-.00007	-.00002	-.00013	.00700	-.01346	-.00277	.00102
#2	-.0077	.00004	-.00004	-.00000	.00365	-.04080	-.00278	-.00123
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Mn2576	Mo2020	Na5895	Ni2316	P_2136	Pb2203	S_1820	Sb2068
Units	ppm	ppm	ppm	ppm	Cts/S	ppm	ppm	ppm
Avg	**-.00008**	**.00496**	**.04812**	**.00004**	z *****	**-.00002**	**-.0168**	**.00113**
Stddev	.00005	.00134	.00988	.00001	-----	.00017	.0003	.00096
%RSD	71.613	26.967	20.533	27.078	-----	841.23	1.751	84.501
#1	-.00004	.00591	.05510	.00003	z 144.3	-.00014	-.0166	.00181
#2	-.00011	.00402	.04113	.00004	z 143.7	.00010	-.0170	.00046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Sample Name: CCB-6615058 Acquired: 8/17/2021 0:01:35 Type: QC
Method: ICAP1 New Stds (v897) Mode: CONC Corr. Factor: 1.000000
User: AMH Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se1960	Si2881	Sn1899	Sr4077	Th2837	Ti3349	Tl1908	V_2924
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.00038**	**.04067**	**.00004**	**.00001**	**.0095**	**.00020**	**.00033**	**-.00013**
Stddev	.00250	.01601	.00015	.00003	.0021	.00006	.00079	.00001
%RSD	654.93	39.362	345.30	221.25	22.11	30.106	243.48	10.018
#1	-.00139	.05199	-.00006	-.00001	.0080	.00016	.00088	-.00012
#2	.00215	.02935	.00015	.00003	.0110	.00025	-.00023	-.00014
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass
High Limit								
Low Limit								

Elem	Zn2062	Zr3438
Units	ppm	ppm
Avg	**.00020**	**.0025**
Stddev	.00049	.0000
%RSD	246.57	1.602
#1	-.00015	.0025
#2	.00054	.0025
Check ?	Chk Pass	None
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3774
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3831.2**	**2836.5**	**61172.**	**2663.3**
Stddev	5.8	7.7	50.	10.7
%RSD	.15257	.27114	.08184	.40054
#1	3827.0	2831.0	61137.	2655.8
#2	3835.3	2841.9	61207.	2670.9

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20210810C.wszf

Creation Date: 8/10/2021 4:18:09 PM

Comment:

Results

Sample Name		Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank		STD	08/10/21 04:23:08 pm	0.00	68	56.43	-12.18		1.0000	N/A
Replicates	75.0	96.0	12.0	89.7						
Standard #1 (0.1 ug/L)		STD	08/10/21 04:24:27 pm	0.10	1509	1.72	-8.93		1.0000	N/A
Replicates	1535.6	1524.2	1497.2	1478.2						
Standard #2 (0.5 ug/L)		STD	08/10/21 04:25:45 pm	0.50	7566	1.02	25.18		1.0000	N/A
Replicates	7546.6	7642.3	7607.6	7465.6						
Standard #3 (2.0 ug/L)		STD	08/10/21 04:27:04 pm	2.00	28976	0.92	59.67		1.0000	N/A
Replicates	28874.0	29247.6	29131.6	28649.0						
Standard #4 (10. ug/L)		STD	08/10/21 04:28:23 pm	10.00	144463	0.83	336.88		1.0000	N/A
Replicates	144032.3	145583.4	145261.4	142975.4						
Standard #5 (20. ug/L)		STD	08/10/21 04:29:42 pm	20.00	274462	0.74	-345.89		1.0000	N/A
Replicates	273898.4	276487.3	275601.3	271859.6						

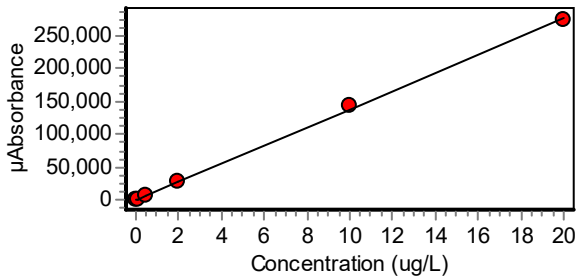
Calibration

Equation: Abs = 13952.478x + 238.042

R2: 0.99926

SEE: 3400.1320

Flags:



ICV		ICV	08/10/21 04:31:11 pm	3.04	42648	0.92			1.0000	101.32
Replicates	42639.1	43028.1	42809.7	42115.7						
ICB		ICB	08/10/21 04:32:28 pm	-0.02	8	11.42			1.0000	N/A
Replicates	-7.7	40.4	16.4	-18.6						
ICVL		CRDL	08/10/21 04:33:48 pm	0.19	2924	1.19			1.0000	96.26
Replicates	2920.7	2969.2	2911.2	2895.2						
CCV		CCV	08/10/21 04:35:08 pm	2.05	28877	0.90			1.0000	102.63
Replicates	28822.6	29119.5	29027.1	28537.1						
CCB		CCB	08/10/21 04:36:26 pm	-0.02	26	8.57			1.0000	N/A
Replicates	13.5	21.9	52.9	16.2						
MB 480-592245/1-A		UNK	08/10/21 04:37:43 pm	-0.01	137	21.13			1.0000	N/A
Replicates	153.9	157.0	122.0	115.7						
LCS 480-592245/2-A		UNK	08/10/21 04:39:01 pm	3.98	55812	1.15			1.0000	N/A
Replicates	55788.8	56426.9	56094.3	54937.6						

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-187968-L-1-C					UNK	08/10/21 04:40:19 pm	-0.01	131	11.76			1.0000	N/A
Replicates	149.4	121.6	127.6	124.9									
480-187968-L-2-G					UNK	08/10/21 04:41:36 pm	-0.01	135	36.87			1.0000	N/A
Replicates	157.1	177.1	110.1	97.5									
480-187968-L-2-Gsd@5					UNK	08/10/21 04:42:54 pm	-0.01	36	13.70			1.0000	N/A
Replicates	4.8	32.1	37.1	72.1									
480-187968-L-2-H MS					UNK	08/10/21 04:44:12 pm	4.02	56361	1.07			1.0000	N/A
Replicates	56357.3	56988.5	56546.2	55551.8									
480-187968-L-2-I MSD					UNK	08/10/21 04:45:30 pm	4.03	56508	1.05			1.0000	N/A
Replicates	56440.3	57104.4	56763.4	55724.1									
480-187968-L-3-C					UNK	08/10/21 04:46:49 pm	-0.01	125	16.50			1.0000	N/A
Replicates	124.3	151.3	114.7	109.3									
480-187968-L-4-C					UNK	08/10/21 04:48:07 pm	-0.01	110	22.81			1.0000	N/A
Replicates	83.2	115.5	148.8	92.5									
480-187968-L-5-C					UNK	08/10/21 04:49:26 pm	0.05	955	3.34			1.0000	N/A
Replicates	977.7	971.6	926.3	944.6									
CCV					CCV	08/10/21 04:50:45 pm	2.05	28827	0.97			1.0000	102.45
Replicates	28718.8	29102.1	28995.4	28491.1									
CCB					CCB	08/10/21 04:52:03 pm	-0.02	26	5.33			1.0000	N/A
Replicates	26.8	10.9	28.2	38.2									
480-187968-L-6-C					UNK	08/10/21 04:53:22 pm	-0.01	125	13.78			1.0000	N/A
Replicates	113.5	122.7	117.7	148.0									
480-188019-L-1-C					UNK	08/10/21 04:54:41 pm	-0.01	151	9.39			1.0000	N/A
Replicates	163.5	147.0	147.7	147.0									
480-188019-L-2-C					UNK	08/10/21 04:55:58 pm	0.00	222	128.91			1.0000	N/A
Replicates	236.6	242.4	201.4	209.7									
480-188019-L-3-C					UNK	08/10/21 04:57:16 pm	-0.01	141	11.57			1.0000	N/A
Replicates	132.9	143.1	155.4	130.7									
480-188019-L-4-C					UNK	08/10/21 04:58:33 pm	-0.01	130	6.11			1.0000	N/A
Replicates	135.0	125.0	136.0	123.3									
480-188019-L-5-C					UNK	08/10/21 04:59:51 pm	-0.01	143	14.22			1.0000	N/A
Replicates	143.0	161.6	130.3	136.6									
480-187932-A-1-A					UNK	08/10/21 05:01:09 pm	0.00	182	46.09			1.0000	N/A
Replicates	207.7	163.7	199.7	155.0									
480-187932-A-11-A					UNK	08/10/21 05:02:27 pm	-0.01	148	19.25			1.0000	N/A
Replicates	144.8	125.8	166.4	155.4									
480-187947-E-1-B					UNK	08/10/21 05:03:45 pm	0.03	620	6.11			1.0000	N/A
Replicates	587.6	643.2	626.5	620.9									

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-187947-E-2-B				UNK	08/10/21 05:05:03 pm	0.02	530	8.24			1.0000	N/A
	Replicates	542.0	545.1	538.8	494.1							
CCV				CCV	08/10/21 05:06:23 pm	2.05	28792	1.01			1.0000	102.33
	Replicates	28756.2	29105.5	28889.8	28417.5							
CCB				CCB	08/10/21 05:07:41 pm	-0.02	8	3.97			1.0000	N/A
	Replicates	21.3	4.2	4.2	1.2							
480-187947-E-3-B				UNK	08/10/21 05:08:59 pm	0.02	530	7.76			1.0000	N/A
	Replicates	508.3	560.5	518.5	532.8							
480-187807-J-2-C				UNK	08/10/21 05:10:18 pm	0.00	247	152.85			1.0000	N/A
	Replicates	246.7	247.1	230.4	265.1							
480-187807-H-3-C				UNK	08/10/21 05:11:37 pm	0.00	226	188.45			1.0000	N/A
	Replicates	228.4	257.0	203.6	214.0							
MB 480-592246/1-A				UNK	08/10/21 05:12:56 pm	-0.01	130	21.30			1.0000	N/A
	Replicates	105.6	124.4	161.0	128.7							
LCS 480-592246/2-A				UNK	08/10/21 05:14:13 pm	3.96	55489	1.22			1.0000	N/A
	Replicates	55559.7	56140.7	55713.1	54543.7							
480-188016-A-1-D				UNK	08/10/21 05:15:31 pm	-0.01	99	20.63			1.0000	N/A
	Replicates	81.2	128.9	117.2	68.6							
480-188016-A-1-Dsd@5				UNK	08/10/21 05:16:48 pm	-0.01	62	17.00			1.0000	N/A
	Replicates	90.6	25.5	49.8	81.8							
480-188016-A-1-E MS				UNK	08/10/21 05:18:06 pm	4.00	56081	1.08			1.0000	N/A
	Replicates	56011.5	56663.4	56376.7	55272.0							
480-188016-A-1-F MSD				UNK	08/10/21 05:19:24 pm	4.09	57305	1.00			1.0000	N/A
	Replicates	57215.5	57817.7	57650.7	56538.0							
480-188016-A-2-B				UNK	08/10/21 05:20:42 pm	-0.01	105	16.35			1.0000	N/A
	Replicates	89.6	132.0	85.0	112.6							
CCV				CCV	08/10/21 05:22:02 pm	2.04	28729	0.83			1.0000	102.10
	Replicates	28688.5	28953.6	28858.0	28416.6							
CCB				CCB	08/10/21 05:23:20 pm	-0.02	18	4.62			1.0000	N/A
	Replicates	28.6	17.5	20.5	4.1							
480-188016-A-3-B				UNK	08/10/21 05:24:38 pm	-0.01	145	23.66			1.0000	N/A
	Replicates	165.3	114.7	155.7	145.7							
480-188016-A-4-B				UNK	08/10/21 05:25:56 pm	-0.01	131	19.76			1.0000	N/A
	Replicates	123.1	153.9	104.9	140.3							
480-188016-A-5-B				UNK	08/10/21 05:27:15 pm	-0.01	138	9.79			1.0000	N/A
	Replicates	149.4	126.0	141.0	136.0							
480-188016-A-6-B				UNK	08/10/21 05:28:33 pm	-0.01	120	12.59			1.0000	N/A
	Replicates	124.1	128.8	98.2	129.5							

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-188016-A-7-B					UNK	08/10/21 05:29:52 pm	-0.01	132	8.99			1.0000	N/A
Replicates	140.6	118.6	135.6	134.3									
480-188016-A-8-B					UNK	08/10/21 05:31:11 pm	-0.01	132	18.96			1.0000	N/A
Replicates	107.6	131.9	156.9	130.6									
480-188016-A-9-B					UNK	08/10/21 05:32:28 pm	-0.01	137	25.72			1.0000	N/A
Replicates	114.7	119.7	144.4	171.0									
480-188016-A-10-B					UNK	08/10/21 05:33:46 pm	-0.01	130	3.99			1.0000	N/A
Replicates	135.4	125.3	132.0	129.0									
480-188016-A-11-B					UNK	08/10/21 05:35:04 pm	-0.01	117	13.00			1.0000	N/A
Replicates	95.8	118.2	120.2	133.8									
480-187931-C-8-C					UNK	08/10/21 05:36:21 pm	-0.01	134	17.23			1.0000	N/A
Replicates	109.4	134.1	151.1	142.1									
CCV					CCV	08/10/21 05:37:41 pm	2.06	28958	0.81			1.0000	102.92
Replicates	28806.8	29175.8	29136.8	28712.8									
CCB					CCB	08/10/21 05:38:59 pm	-0.01	44	8.29			1.0000	N/A
Replicates	43.4	32.6	66.6	32.3									
480-187931-C-9-C					UNK	08/10/21 05:40:17 pm	-0.01	117	18.29			1.0000	N/A
Replicates	139.3	129.4	89.4	108.8									
480-187954-E-10-B					UNK	08/10/21 05:41:35 pm	-0.01	136	13.38			1.0000	N/A
Replicates	118.9	148.5	145.5	132.2									
480-187868-A-3-B					UNK	08/10/21 05:42:53 pm	0.00	173	13.95			1.0000	N/A
Replicates	161.5	173.1	183.8	172.1									
MB 480-592247/1-A					UNK	08/10/21 05:44:11 pm	-0.01	161	22.71			1.0000	N/A
Replicates	148.1	179.5	173.2	145.2									
LCS 480-592247/2-A					UNK	08/10/21 05:45:30 pm	3.92	54926	0.89			1.0000	N/A
Replicates	54808.2	55421.6	55172.3	54300.6									
480-188052-A-1-B					UNK	08/10/21 05:46:48 pm	-0.01	115	22.67			1.0000	N/A
Replicates	124.9	74.2	135.2	127.2									
480-188052-A-2-B					UNK	08/10/21 05:48:07 pm	0.00	211	42.66			1.0000	N/A
Replicates	225.9	213.5	199.5	204.1									
480-188052-A-3-B					UNK	08/10/21 05:49:26 pm	-0.01	133	34.94			1.0000	N/A
Replicates	139.1	173.5	84.2	134.2									
480-188052-A-4-B					UNK	08/10/21 05:50:44 pm	0.00	179	37.55			1.0000	N/A
Replicates	186.6	202.4	176.7	149.4									
480-188052-A-5-B					UNK	08/10/21 05:52:02 pm	0.00	204	112.90			1.0000	N/A
Replicates	199.6	225.9	238.3	150.3									
CCV					CCV	08/10/21 05:53:22 pm	2.04	28663	0.83			1.0000	101.86
Replicates	28458.5	28904.3	28824.7	28463.0									

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCB	CCB	08/10/21 05:54:39 pm	-0.02	24	16.13			1.0000	N/A
Replicates	44.0	58.6	11.2	-18.8					
480-188052-A-6-B	UNK	08/10/21 05:55:57 pm	0.01	341	25.96			1.0000	N/A
Replicates	346.5	347.2	365.5	302.9					
480-188052-A-7-B	UNK	08/10/21 05:57:15 pm	-0.01	167	29.47			1.0000	N/A
Replicates	138.7	182.7	183.0	163.0					
480-188052-A-8-B	UNK	08/10/21 05:58:33 pm	0.15	2375	1.18			1.0000	N/A
Replicates	2403.0	2387.1	2365.1	2345.5					
480-188052-A-9-B	UNK	08/10/21 05:59:51 pm	0.00	205	51.10			1.0000	N/A
Replicates	185.4	227.0	204.0	202.0					
480-188052-A-10-D	UNK	08/10/21 06:01:09 pm	0.02	565	10.68			1.0000	N/A
Replicates	562.9	547.9	615.2	535.9					
480-188052-A-10-Dsd@5	UNK	08/10/21 06:02:28 pm	-0.01	159	24.96			1.0000	N/A
Replicates	164.2	158.1	132.1	179.7					
480-188052-A-10-E MS	UNK	08/10/21 06:03:46 pm	3.84	53865	1.11			1.0000	N/A
Replicates	53824.6	54441.5	54134.8	53057.2					
480-188052-A-10-F MSD	UNK	08/10/21 06:05:05 pm	3.82	53592	1.10			1.0000	N/A
Replicates	53593.0	54131.5	53863.1	52779.8					
480-188052-A-11-B	UNK	08/10/21 06:06:23 pm	-0.01	111	17.31			1.0000	N/A
Replicates	93.2	142.3	98.6	110.3					
480-188052-A-12-B	UNK	08/10/21 06:07:42 pm	0.00	203	13.79			1.0000	N/A
Replicates	201.8	205.7	197.3	208.3					
CCV	CCV	08/10/21 06:09:02 pm	2.04	28645	0.88			1.0000	101.80
Replicates	28461.5	28883.1	28837.8	28399.1					
CCB	CCB	08/10/21 06:10:20 pm	-0.02	28	5.23			1.0000	N/A
Replicates	32.4	15.7	40.7	22.4					
480-188052-A-13-B	UNK	08/10/21 06:11:38 pm	0.00	230	328.88			1.0000	N/A
Replicates	241.7	222.2	200.2	257.8					
480-188052-D-15-B	UNK	08/10/21 06:12:56 pm	0.03	632	5.91			1.0000	N/A
Replicates	615.2	656.8	646.8	609.5					
MB 480-591474/1-D	UNK	08/10/21 06:14:15 pm	-0.01	129	24.86			1.0000	N/A
Replicates	120.0	161.8	136.5	97.5					
LCS 480-591474/2-D	UNK	08/10/21 06:15:33 pm	3.93	55033	0.89			1.0000	N/A
Replicates	54850.6	55516.3	55331.6	54432.9					
480-187750-C-10-G	UNK	08/10/21 06:16:51 pm	-0.01	112	13.42			1.0000	N/A
Replicates	91.8	115.9	132.3	106.3					
480-187750-C-10-Gsd@5	UNK	08/10/21 06:18:09 pm	-0.01	74	5.62			1.0000	N/A
Replicates	61.3	78.3	82.6	75.6					

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-187750-C-10-H MS					UNK	08/10/21 06:19:27 pm	3.81	53368	1.11			1.0000	N/A
	Replicates	53393.2	53928.7	53600.0	52551.7								
480-187750-C-10-I MSD					UNK	08/10/21 06:20:46 pm	3.74	52362	1.03			1.0000	N/A
	Replicates	52236.2	52855.4	52696.7	51660.4								
480-187767-L-1-C					UNK	08/10/21 06:22:04 pm	-0.01	96	15.85			1.0000	N/A
	Replicates	89.5	122.0	102.7	68.4								
480-187767-L-2-C					UNK	08/10/21 06:23:23 pm	-0.01	156	32.89			1.0000	N/A
	Replicates	162.3	124.2	188.9	149.2								
CCV					CCV	08/10/21 06:24:42 pm	2.02	28439	0.81			1.0000	101.06
	Replicates	28270.4	28653.4	28615.0	28215.7								
CCB					CCB	08/10/21 06:26:00 pm	-0.02	12	4.20			1.0000	N/A
	Replicates	23.6	10.1	12.4	0.4								
480-187972-A-1-C					UNK	08/10/21 06:27:19 pm	-0.01	144	16.65			1.0000	N/A
	Replicates	124.7	142.7	163.0	145.0								
480-187972-D-2-C					UNK	08/10/21 06:28:38 pm	-0.01	135	27.69			1.0000	N/A
	Replicates	156.8	151.9	137.9	94.3								
CCV					CCV	08/10/21 06:29:58 pm	2.02	28486	0.85			1.0000	101.23
	Replicates	28324.7	28716.9	28664.6	28237.9								
CCB					CCB	08/10/21 06:31:15 pm	-0.01	41	4.38			1.0000	N/A
	Replicates	41.2	39.6	52.3	31.3								
CCVL					CRDL	08/10/21 06:32:36 pm	0.19	2856	0.60			1.0000	93.83
	Replicates	2853.4	2841.0	2878.4	2852.4								

Report Generated By Teledyne Leeman QuickTrace

Analyst: BufHG5

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\L20210811A.wszf

Creation Date: 8/11/2021 2:05:51 PM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
Calibration Blank	STD	08/11/21 03:57:58 pm	0.00	5	401.29	-12.14		1.0000	N/A
Replicates	-1.1	29.7	11.4	-19.3					
Standard #1 (0.1 ug/L)	STD	08/11/21 03:59:16 pm	0.10	1542	1.10	-4.27		1.0000	N/A
Replicates	1547.1	1563.9	1528.5	1528.5					
Standard #2 (0.5 ug/L)	STD	08/11/21 04:00:35 pm	0.50	7677	0.94	26.31		1.0000	N/A
Replicates	7705.4	7726.0	7706.4	7569.4					
Standard #3 (2.0 ug/L)	STD	08/11/21 04:01:53 pm	2.00	30390	1.00	120.48		1.0000	N/A
Replicates	30495.6	30665.0	30444.0	29955.0					
Standard #4 (10. ug/L)	STD	08/11/21 04:03:13 pm	10.00	147580	0.92	345.72		1.0000	N/A
Replicates	147809.9	148875.5	147964.2	145670.2					
Standard #5 (20. ug/L)	STD	08/11/21 04:04:32 pm	20.00	278902	0.90	-437.15		1.0000	N/A
Replicates	279466.1	281244.8	279539.8	275357.1					

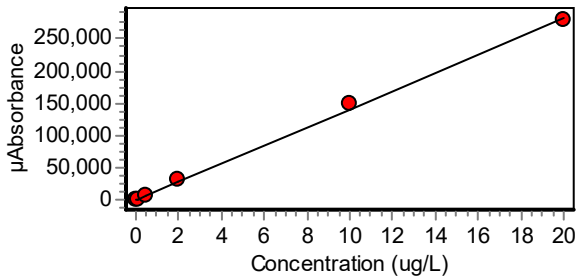
Calibration

Equation: Abs = 14247.610x + 178.120

R2: 0.99897

SEE: 4067.4400

Flags:



ICV	ICV	08/11/21 04:07:25 pm	3.02	43212	0.85			1.0000	100.68
Replicates	43233.0	43567.7	43339.3	42706.3					
ICB	ICB	08/11/21 04:08:43 pm	-0.01	13	9.51			1.0000	N/A
Replicates	25.8	-3.4	1.3	26.3					
ICVL	CRDL	08/11/21 04:10:03 pm	0.20	2960	1.22			1.0000	97.64
Replicates	2952.0	3006.0	2959.3	2924.3					
CCV	CCV	08/11/21 04:11:23 pm	2.00	28720	0.80			1.0000	100.16
Replicates	28712.9	28942.3	28817.6	28405.3					
CCB	CCB	08/11/21 04:12:41 pm	-0.01	4	10.12			1.0000	N/A
Replicates	9.4	16.0	13.0	-22.0					
MB 480-592504/1-A	UNK	08/11/21 04:13:58 pm	0.00	160	65.66			1.0000	N/A
Replicates	142.2	169.4	160.4	166.4					
LCS 480-592504/2-A	UNK	08/11/21 04:15:16 pm	4.01	57266	1.08			1.0000	N/A
Replicates	57405.0	57835.5	57436.2	56387.9					

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual Flags	DF	% Recovery
480-187660-E-1-C	UNK	08/11/21 04:16:33 pm	-0.01	29	12.13		1.0000	N/A
Replicates	51.1	22.3	33.6	8.3				
480-187660-E-2-C	UNK	08/11/21 04:17:51 pm	-0.01	64	26.15		1.0000	N/A
Replicates	68.5	47.0	36.3	104.0				
480-187660-E-2-Csd@5	UNK	08/11/21 04:19:09 pm	-0.01	3	6.97		1.0000	N/A
Replicates	0.9	-5.4	-3.0	21.3				
480-187660-E-2-D MS	UNK	08/11/21 04:20:27 pm	3.95	56436	1.11		1.0000	N/A
Replicates	56636.6	56980.9	56586.9	55540.9				
480-187660-E-2-E MSD	UNK	08/11/21 04:21:45 pm	3.90	55771	0.96		1.0000	N/A
Replicates	55760.8	56309.6	55967.9	55043.9				
480-187660-E-3-D	UNK	08/11/21 04:23:04 pm	-0.01	57	10.56		1.0000	N/A
Replicates	74.0	50.2	59.5	44.9				
480-187660-E-4-C	UNK	08/11/21 04:24:22 pm	-0.01	88	17.09		1.0000	N/A
Replicates	76.4	96.9	105.3	73.9				
480-187660-E-5-D	UNK	08/11/21 04:25:41 pm	-0.01	79	23.86		1.0000	N/A
Replicates	75.6	111.2	54.2	75.5				
CCV	CCV	08/11/21 04:27:00 pm	2.04	29313	0.69		1.0000	102.25
Replicates	29232.4	29507.2	29445.2	29068.5				
CCB	CCB	08/11/21 04:28:18 pm	-0.01	31	12.98		1.0000	N/A
Replicates	40.2	52.1	9.5	20.8				
480-187660-E-6-D	UNK	08/11/21 04:29:37 pm	-0.01	73	14.42		1.0000	N/A
Replicates	57.8	78.4	63.4	91.4				
480-187741-E-1-C	UNK	08/11/21 04:30:56 pm	-0.01	51	11.59		1.0000	N/A
Replicates	48.9	36.5	46.8	71.5				
480-187741-E-2-C	UNK	08/11/21 04:32:13 pm	-0.01	99	16.25		1.0000	N/A
Replicates	98.1	117.5	87.9	94.2				
480-187741-E-3-E	UNK	08/11/21 04:33:31 pm	-0.01	75	7.90		1.0000	N/A
Replicates	81.7	69.5	81.5	65.8				
480-187741-E-4-E	UNK	08/11/21 04:34:48 pm	-0.01	79	25.29		1.0000	N/A
Replicates	63.3	84.1	111.7	55.4				
480-187741-E-5-C	UNK	08/11/21 04:36:06 pm	-0.01	77	21.59		1.0000	N/A
Replicates	60.3	59.5	84.8	104.8				
480-187741-E-6-C	UNK	08/11/21 04:37:24 pm	-0.01	95	18.41		1.0000	N/A
Replicates	110.0	74.2	96.2	101.2				
480-187741-E-7-C	UNK	08/11/21 04:38:42 pm	-0.01	58	19.65		1.0000	N/A
Replicates	80.1	64.6	61.6	24.3				
480-187747-E-1-C	UNK	08/11/21 04:40:00 pm	-0.01	85	19.29		1.0000	N/A
Replicates	69.4	74.0	109.3	88.0				

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-187747-E-2-C					UNK	08/11/21 04:41:18 pm	-0.01	56	20.72			1.0000	N/A
	Replicates	56.0	57.0	86.3	24.3								
CCV					CCV	08/11/21 04:42:38 pm	2.04	29177	0.74			1.0000	101.77
	Replicates	29130.3	29377.4	29303.4	28897.7								
CCB					CCB	08/11/21 04:43:56 pm	-0.01	28	11.59			1.0000	N/A
	Replicates	16.9	9.5	42.5	43.2								
480-187747-E-3-C					UNK	08/11/21 04:45:14 pm	-0.01	82	25.02			1.0000	N/A
	Replicates	77.6	94.4	50.1	105.4								
480-187747-E-4-C					UNK	08/11/21 04:46:33 pm	-0.01	75	31.97			1.0000	N/A
	Replicates	88.5	115.7	49.7	47.3								
480-187747-E-5-C					UNK	08/11/21 04:47:51 pm	-0.01	44	9.95			1.0000	N/A
	Replicates	31.6	32.7	57.7	52.4								
480-187747-E-6-C					UNK	08/11/21 04:49:10 pm	-0.01	74	8.49			1.0000	N/A
	Replicates	76.8	60.9	74.9	81.5								
480-187747-E-7-C					UNK	08/11/21 04:50:28 pm	-0.01	67	28.22			1.0000	N/A
	Replicates	110.1	69.3	42.6	44.3								
MB 480-592506/1-A					UNK	08/11/21 04:51:46 pm	-0.01	70	5.31			1.0000	N/A
	Replicates	76.8	65.8	71.4	64.1								
LCS 480-592506/2-A					UNK	08/11/21 04:53:03 pm	4.02	57466	0.90			1.0000	N/A
	Replicates	57350.8	57989.3	57722.3	56800.6								
480-187747-E-8-C					UNK	08/11/21 04:54:21 pm	-0.01	52	16.08			1.0000	N/A
	Replicates	34.9	48.7	81.0	42.4								
480-187788-E-1-C					UNK	08/11/21 04:55:39 pm	-0.01	59	13.66			1.0000	N/A
	Replicates	49.6	62.2	80.2	43.2								
480-187789-E-1-C					UNK	08/11/21 04:56:57 pm	-0.01	56	14.08			1.0000	N/A
	Replicates	38.2	74.2	67.2	45.5								
CCV					CCV	08/11/21 04:58:17 pm	2.02	28974	0.73			1.0000	101.05
	Replicates	28921.5	29188.1	29079.4	28705.1								
CCB					CCB	08/11/21 04:59:35 pm	-0.01	18	21.31			1.0000	N/A
	Replicates	45.7	44.5	5.8	-25.5								
480-187789-E-2-G					UNK	08/11/21 05:00:53 pm	-0.01	65	19.85			1.0000	N/A
	Replicates	78.8	40.5	52.9	88.9								
480-187789-E-2-Gsd@5					UNK	08/11/21 05:02:11 pm	-0.01	20	13.50			1.0000	N/A
	Replicates	28.1	-11.8	34.5	28.9								
480-187789-E-2-H MS					UNK	08/11/21 05:03:29 pm	3.94	56358	1.10			1.0000	N/A
	Replicates	56520.7	56908.5	56528.8	55473.8								
480-187789-E-2-I MSD					UNK	08/11/21 05:04:48 pm	3.96	56541	0.92			1.0000	N/A
	Replicates	56524.5	57011.6	56800.0	55826.0								

Sample Name				Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-187789-E-3-C				UNK	08/11/21 05:06:07 pm	-0.01	65	13.90			1.0000	N/A
Replicates	77.6	73.4	42.4	66.4								
480-187789-E-4-C				UNK	08/11/21 05:07:26 pm	-0.01	90	24.25			1.0000	N/A
Replicates	86.3	102.3	109.6	61.3								
480-187789-E-5-C				UNK	08/11/21 05:08:43 pm	-0.01	73	19.53			1.0000	N/A
Replicates	78.5	99.5	53.8	60.1								
480-187872-D-1-E				UNK	08/11/21 05:10:01 pm	-0.01	81	31.84			1.0000	N/A
Replicates	101.4	100.4	36.0	87.4								
480-187872-D-2-C				UNK	08/11/21 05:11:19 pm	0.00	145	43.95			1.0000	N/A
Replicates	153.0	155.0	123.7	148.7								
480-187872-D-3-C				UNK	08/11/21 05:12:36 pm	0.00	248	14.62			1.0000	N/A
Replicates	248.8	239.9	262.5	241.9								
CCV				CCV	08/11/21 05:13:56 pm	2.03	29077	0.75			1.0000	101.42
Replicates	28946.2	29303.2	29215.5	28844.5								
CCB				CCB	08/11/21 05:15:14 pm	-0.01	33	7.50			1.0000	N/A
Replicates	32.4	48.4	24.0	26.7								
480-187872-D-4-C				UNK	08/11/21 05:16:32 pm	-0.01	68	9.97			1.0000	N/A
Replicates	73.0	79.2	67.6	53.6								
480-187872-D-5-C				UNK	08/11/21 05:17:50 pm	-0.01	73	19.63			1.0000	N/A
Replicates	63.4	103.4	58.4	65.4								
480-187872-D-6-C				UNK	08/11/21 05:19:08 pm	0.00	158	182.21			1.0000	N/A
Replicates	129.2	206.2	130.8	166.5								
480-187937-C-1-C				UNK	08/11/21 05:20:26 pm	-0.01	45	34.63			1.0000	N/A
Replicates	45.2	3.4	23.4	109.4								
480-187947-F-1-B				UNK	08/11/21 05:21:45 pm	-0.01	95	51.30			1.0000	N/A
Replicates	49.5	105.1	75.1	149.1								
480-187947-F-2-B				UNK	08/11/21 05:23:03 pm	-0.01	103	40.86			1.0000	N/A
Replicates	83.9	146.5	79.2	102.5								
480-187947-F-3-B				UNK	08/11/21 05:24:22 pm	-0.01	68	14.78			1.0000	N/A
Replicates	58.7	80.6	83.6	50.6								
480-187793-D-1-C				UNK	08/11/21 05:25:41 pm	-0.01	89	35.89			1.0000	N/A
Replicates	88.2	128.6	50.3	88.9								
480-187984-E-1-B				UNK	08/11/21 05:26:59 pm	-0.01	51	18.84			1.0000	N/A
Replicates	60.2	76.9	20.3	47.3								
MB 480-592507/1-A				UNK	08/11/21 05:28:17 pm	-0.01	35	5.65			1.0000	N/A
Replicates	36.0	30.0	46.0	28.0								
CCV				CCV	08/11/21 05:29:36 pm	2.03	29035	0.60			1.0000	101.27
Replicates	28891.1	29199.5	29170.5	28880.2								

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
CCB					CCB	08/11/21 05:30:54 pm	-0.01	8	13.29			1.0000	N/A
	Replicates	15.2	34.2	3.8	-19.8								
LCS 480-592507/2-A					UNK	08/11/21 05:32:12 pm	3.88	55511	0.94			1.0000	N/A
	Replicates	55534.5	56008.5	55710.2	54791.9								
480-188016-B-1-D					UNK	08/11/21 05:33:30 pm	-0.01	30	5.76			1.0000	N/A
	Replicates	20.1	31.1	26.5	40.5								
480-188016-B-1-Dsd@5					UNK	08/11/21 05:34:48 pm	-0.01	53	9.74			1.0000	N/A
	Replicates	64.5	36.3	54.0	58.7								
480-188016-B-1-E MS					UNK	08/11/21 05:36:06 pm	3.93	56168	0.85			1.0000	N/A
	Replicates	56006.5	56638.1	56455.4	55572.1								
480-188016-B-1-F MSD					UNK	08/11/21 05:37:24 pm	3.96	56622	0.89			1.0000	N/A
	Replicates	56518.1	57098.6	56906.3	55963.0								
480-188016-B-2-B					UNK	08/11/21 05:38:43 pm	-0.01	47	5.81			1.0000	N/A
	Replicates	57.1	45.4	38.7	46.0								
480-188016-B-3-B					UNK	08/11/21 05:40:01 pm	-0.01	15	3.44			1.0000	N/A
	Replicates	15.6	8.1	15.7	21.7								
480-188016-B-4-B					UNK	08/11/21 05:41:20 pm	-0.01	40	11.86			1.0000	N/A
	Replicates	33.7	63.4	37.7	25.4								
480-188016-B-5-B					UNK	08/11/21 05:42:38 pm	-0.01	78	26.68			1.0000	N/A
	Replicates	51.4	115.0	75.0	70.3								
480-188016-B-6-C					UNK	08/11/21 05:43:57 pm	-0.01	50	12.90			1.0000	N/A
	Replicates	42.6	72.3	33.6	51.0								
CCV					CCV	08/11/21 05:45:17 pm	2.02	28939	0.68			1.0000	100.93
	Replicates	28841.8	29140.1	29059.1	28716.7								
CCB					CCB	08/11/21 05:46:35 pm	-0.01	26	10.19			1.0000	N/A
	Replicates	16.9	41.7	37.1	9.7								
480-188016-B-7-B					UNK	08/11/21 05:47:53 pm	-0.01	61	21.47			1.0000	N/A
	Replicates	62.4	39.3	95.9	46.9								
480-188016-B-8-B					UNK	08/11/21 05:49:11 pm	-0.01	53	25.22			1.0000	N/A
	Replicates	98.2	26.8	37.1	48.5								
480-188016-B-9-B					UNK	08/11/21 05:50:29 pm	-0.01	30	5.25			1.0000	N/A
	Replicates	25.3	21.2	37.9	34.5								
480-188016-B-10-B					UNK	08/11/21 05:51:48 pm	-0.01	76	26.04			1.0000	N/A
	Replicates	81.8	79.9	38.9	102.5								
480-188016-B-11-B					UNK	08/11/21 05:53:06 pm	-0.01	95	9.91			1.0000	N/A
	Replicates	85.5	98.8	90.1	103.8								
480-188019-AK-2-D					UNK	08/11/21 05:54:24 pm	-0.01	68	9.08			1.0000	N/A
	Replicates	62.6	61.7	66.4	83.1								

Sample Name					Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags	DF	% Recovery
480-187985-A-1-B					UNK	08/11/21 05:55:42 pm	0.00	208	50.91			1.0000	N/A
Replicates	226.9	192.6	214.3	199.3									
480-188114-C-1-C					UNK	08/11/21 05:57:01 pm	0.16	2524	1.69			1.0000	N/A
Replicates	2525.5	2565.1	2533.8	2470.1									
480-187976-A-7-A					UNK	08/11/21 05:58:19 pm	-0.01	55	12.83			1.0000	N/A
Replicates	70.9	66.4	38.1	46.4									
480-187735-A-2-A					UNK	08/11/21 05:59:38 pm	9.68	138058	0.76			1.0000	N/A
Replicates	137729.5	139068.7	138703.0	136729.0									
CCV					CCV	08/11/21 06:00:57 pm	2.02	28945	0.78			1.0000	100.95
Replicates	28804.8	29156.5	29113.2	28705.9									
CCB					CCB	08/11/21 06:02:15 pm	-0.01	0	9.78			1.0000	N/A
Replicates	11.7	-11.3	17.7	-18.3									
LB 480-592361/1-C					UNK	08/11/21 06:03:34 pm	-0.01	38	18.57			1.0000	N/A
Replicates	54.1	25.7	65.4	8.7									
MB 480-592509/2-A					UNK	08/11/21 06:04:53 pm	-0.01	16	8.95			1.0000	N/A
Replicates	2.4	4.8	28.2	29.2									
LCS 480-592509/3-A					UNK	08/11/21 06:06:11 pm	3.86	55237	0.95			1.0000	N/A
Replicates	55136.2	55748.3	55509.9	54552.9									
480-187966-A-3-J					UNK	08/11/21 06:07:29 pm	0.01	281	30.82			1.0000	N/A
Replicates	298.8	313.9	267.5	243.2									
480-187966-A-4-J					UNK	08/11/21 06:08:48 pm	0.16	2397	1.50			1.0000	N/A
Replicates	2376.0	2437.6	2410.6	2364.6									
480-187967-A-3-J					UNK	08/11/21 06:10:06 pm	0.00	119	36.47			1.0000	N/A
Replicates	142.6	130.3	94.3	109.3									
480-188008-C-1-F					UNK	08/11/21 06:11:24 pm	-0.01	69	11.97			1.0000	N/A
Replicates	63.0	54.2	84.2	74.2									
480-188008-C-1-Fsd@5					UNK	08/11/21 06:12:42 pm	-0.01	35	11.62			1.0000	N/A
Replicates	45.6	24.7	17.4	52.4									
480-188008-C-1-G MS					UNK	08/11/21 06:14:00 pm	1.69	24194	0.68			1.0000	N/A
Replicates	24127.2	24346.7	24306.4	23996.7									
480-188008-C-1-H MSD					UNK	08/11/21 06:15:19 pm	1.65	23726	0.80			1.0000	N/A
Replicates	23650.3	23891.5	23868.2	23494.9									
CCV					CCV	08/11/21 06:16:38 pm	2.01	28763	0.73			1.0000	100.31
Replicates	28613.3	28972.1	28911.1	28555.1									
CCB					CCB	08/11/21 06:17:56 pm	-0.01	14	18.52			1.0000	N/A
Replicates	-3.6	59.3	-0.1	-1.1									
CCVL					CRDL	08/11/21 06:19:16 pm	0.19	2881	1.53			1.0000	94.84
Replicates	2851.5	2878.8	2939.8	2852.8									

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592076 Batch Start Date: 08/09/21 13:12 Batch Analyst: Proulx, Katelyn M

Batch Method: 3005A Batch End Date: 08/09/21 16:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00156	MED_01_W1 00068	MED_02_W2 00066	MED_03_Ag 00170
MB 480-592076/1		3005A, 6010C		50 mL	50 mL				
LCS 480-592076/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-188016-A-1	MW-99-03	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-1 MS	MW-99-03	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-188016-A-1 MSD	MW-99-03	3005A, 6010C	T	50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-188016-A-2	MW-86-24A	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-3	MW-99-01	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-4	MW-86-28	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-5	MW-12	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-6	MW-86-1SH	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-7	MW-86-X3	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-8	MW-99-02	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-9	MW-99-04	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-10	MW-86-27	3005A, 6010C	T	50 mL	50 mL				
480-188016-A-11	DUP-080321	3005A, 6010C	T	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00157	MED_05_S 00116				
MB 480-592076/1		3005A, 6010C							
LCS 480-592076/2		3005A, 6010C		0.25 mL	0.25 mL				
480-188016-A-1	MW-99-03	3005A, 6010C	T						
480-188016-A-1 MS	MW-99-03	3005A, 6010C	T	0.25 mL	0.25 mL				
480-188016-A-1 MSD	MW-99-03	3005A, 6010C	T	0.25 mL	0.25 mL				
480-188016-A-2	MW-86-24A	3005A, 6010C	T						
480-188016-A-3	MW-99-01	3005A, 6010C	T						
480-188016-A-4	MW-86-28	3005A, 6010C	T						
480-188016-A-5	MW-12	3005A, 6010C	T						
480-188016-A-6	MW-86-1SH	3005A, 6010C	T						
480-188016-A-7	MW-86-X3	3005A, 6010C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592076 Batch Start Date: 08/09/21 13:12 Batch Analyst: Proulx, Katelyn M

Batch Method: 3005A Batch End Date: 08/09/21 16:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00157	MED_05_S 00116				
480-188016-A-8	MW-99-02	3005A, 6010C	T						
480-188016-A-9	MW-99-04	3005A, 6010C	T						
480-188016-A-10	MW-86-27	3005A, 6010C	T						
480-188016-A-11	DUP-080321	3005A, 6010C	T						

Batch Notes	
Temperature - Corrected - End	97.4 Degrees C
Temperature - Corrected - Start	94.8 Degrees C
Digestion End Time	08/09/2021 16:48
Digestion Start Time	08/09/2021 13:12
Digestion Unit ID	A
Hydrochloric Acid ID	6591051
Nitric Acid ID	6604548
pH Indicator ID	HC911298
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	KP
Sufficient Volume for Batch QC	YES
Thermometer Location ID	C5
Thermometer ID	200152384
Digestion Tube/Cup ID	2104009
Temperature - Uncorrected - End	96.7 Degrees C
Temperature - Uncorrected - Start	94.1 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592077 Batch Start Date: 08/09/21 13:12 Batch Analyst: Proulx, Katelyn M

Batch Method: 3005A Batch End Date: 08/09/21 16:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00156	MED_01_W1 00068	MED_02_W2 00066	MED_03_Ag 00170
MB 480-592077/1		3005A, 6010C		50 mL	50 mL				
LCS 480-592077/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.5 mL	0.25 mL	0.25 mL
480-188016-B-1	MW-99-03	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-1 MS	MW-99-03	3005A, 6010C	D	50 mL	50 mL	0.25 mL	0.5 mL	0.25 mL	0.25 mL
480-188016-B-1 MSD	MW-99-03	3005A, 6010C	D	50 mL	50 mL	0.25 mL	0.5 mL	0.25 mL	0.25 mL
480-188016-B-2	MW-86-24A	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-3	MW-99-01	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-4	MW-86-28	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-5	MW-12	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-6	MW-86-1SH	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-7	MW-86-X3	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-8	MW-99-02	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-9	MW-99-04	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-10	MW-86-27	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-11	DUP-080321	3005A, 6010C	D	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00157	MED_05_S 00116				
MB 480-592077/1		3005A, 6010C							
LCS 480-592077/2		3005A, 6010C		0.25 mL	0.25 mL				
480-188016-B-1	MW-99-03	3005A, 6010C	D						
480-188016-B-1 MS	MW-99-03	3005A, 6010C	D	0.25 mL	0.25 mL				
480-188016-B-1 MSD	MW-99-03	3005A, 6010C	D	0.25 mL	0.25 mL				
480-188016-B-2	MW-86-24A	3005A, 6010C	D						
480-188016-B-3	MW-99-01	3005A, 6010C	D						
480-188016-B-4	MW-86-28	3005A, 6010C	D						
480-188016-B-5	MW-12	3005A, 6010C	D						
480-188016-B-6	MW-86-1SH	3005A, 6010C	D						
480-188016-B-7	MW-86-X3	3005A, 6010C	D						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592077 Batch Start Date: 08/09/21 13:12 Batch Analyst: Proulx, Katelyn M

Batch Method: 3005A Batch End Date: 08/09/21 16:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00157	MED_05_S 00116				
480-188016-B-8	MW-99-02	3005A, 6010C	D						
480-188016-B-9	MW-99-04	3005A, 6010C	D						
480-188016-B-10	MW-86-27	3005A, 6010C	D						
480-188016-B-11	DUP-080321	3005A, 6010C	D						

Batch Notes	
Temperature - Corrected - End	97.4 Degrees C
Temperature - Corrected - Start	94.8 Degrees C
Digestion End Time	08/09/2021 16:48
Digestion Start Time	08/09/2021 13:12
Digestion Unit ID	A
Hydrochloric Acid ID	6591051
Nitric Acid ID	6604548
pH Indicator ID	HC911298
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	KP
Sufficient Volume for Batch QC	YES
Thermometer Location ID	C5
Thermometer ID	200152384
Digestion Tube/Cup ID	2104009
Temperature - Uncorrected - End	96.7 Degrees C
Temperature - Uncorrected - Start	94.1 Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592922 Batch Start Date: 08/16/21 10:58 Batch Analyst: Merkle, Adam D

Batch Method: 3005A Batch End Date: 08/16/21 14:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MED_01_Si 00156	MED_01_W1 00068	MED_02_W2 00066	MED_03_Ag 00170
MB 480-592922/1		3005A, 6010C		50 mL	50 mL				
LCS 480-592922/2		3005A, 6010C		50 mL	50 mL	0.25 mL	0.25 mL	0.25 mL	0.25 mL
480-188016-B-2	MW-86-24A	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-3	MW-99-01	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-9	MW-99-04	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-10	MW-86-27	3005A, 6010C	D	50 mL	50 mL				
480-188016-B-11	DUP-080321	3005A, 6010C	D	50 mL	50 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	MED_04_Sn 00157	MED_05_S 00116	AnalysisComment			
MB 480-592922/1		3005A, 6010C							
LCS 480-592922/2		3005A, 6010C		0.25 mL	0.25 mL				
480-188016-B-2	MW-86-24A	3005A, 6010C	D			REDI			
480-188016-B-3	MW-99-01	3005A, 6010C	D			REDI			
480-188016-B-9	MW-99-04	3005A, 6010C	D			REDI			
480-188016-B-10	MW-86-27	3005A, 6010C	D			REDI			
480-188016-B-11	DUP-080321	3005A, 6010C	D			REDI			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592922 Batch Start Date: 08/16/21 10:58 Batch Analyst: Merkle, Adam D

Batch Method: 3005A Batch End Date: 08/16/21 14:55

Batch Notes	
Temperature - Corrected - End	96.4 Degrees C
Temperature - Corrected - Start	94.0 Degrees C
Digestion End Time	08/16/2021 14:55
Digestion Start Time	08/16/2021 10:58
Digestion Unit ID	B
Hydrochloric Acid ID	6591051
Nitric Acid ID	6604548
pH Indicator ID	HC911298
Pipette/Syringe/Dispenser ID	MDL-3
Analyst ID - Spike Analyst	AM
Sufficient Volume for Batch QC	YES
Thermometer Location ID	D4
Thermometer ID	200152384
Digestion Tube/Cup ID	2104009
Temperature - Uncorrected - End	95.7 Degrees C
Temperature - Uncorrected - Start	93.3 Degrees C

Basis	Basis Description
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592246 Batch Start Date: 08/10/21 13:08 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 08/10/21 15:08

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02623			
MB 480-592246/1		7470A, 7470A		30 mL	50 mL				
LCS 480-592246/2		7470A, 7470A		30 mL	50 mL	2 mL			
480-188016-A-1	MW-99-03	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-1 MS	MW-99-03	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-188016-A-1 MSD	MW-99-03	7470A, 7470A	T	30 mL	50 mL	2 mL			
480-188016-A-2	MW-86-24A	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-3	MW-99-01	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-4	MW-86-28	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-5	MW-12	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-6	MW-86-1SH	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-7	MW-86-X3	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-8	MW-99-02	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-9	MW-99-04	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-10	MW-86-27	7470A, 7470A	T	30 mL	50 mL				
480-188016-A-11	DUP-080321	7470A, 7470A	T	30 mL	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592246 Batch Start Date: 08/10/21 13:08 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 08/10/21 15:08

Batch Notes	
Batch Comment	1 & 2 Prep 1155
Temperature - Corrected - End	95.2 Deg. C
Temperature - Corrected - Start	95.4 Deg. C
Digestion End Time	1508
Digestion Start Time	1308
Digestion Unit ID	HG-B
Sulfuric Acid ID	6595241
Nitric Acid ID	6597772
Hydroxylamine ID	6386931
Potassium Persulfate ID	6349794
Potassium Permanganate ID	6296395
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	BB
Thermometer ID	170435802
Digestion Tube/Cup ID	2008043
Temperature - Uncorrected - End	94.2 Deg. C
Temperature - Uncorrected - Start	94.4 Deg. C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592507 Batch Start Date: 08/11/21 13:05 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 08/11/21 15:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MEH_HG1_WKG 02625	AnalysisComment		
MB 480-592507/1		7470A, 7470A		30 mL	50 mL		KMnO4 x2		
LCS 480-592507/2		7470A, 7470A		30 mL	50 mL	2 mL	KMnO4 x2		
480-188016-B-1	MW-99-03	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-1 MS	MW-99-03	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-188016-B-1 MSD	MW-99-03	7470A, 7470A	D	30 mL	50 mL	2 mL			
480-188016-B-2	MW-86-24A	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-3	MW-99-01	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-4	MW-86-28	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-5	MW-12	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-6	MW-86-1SH	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-7	MW-86-X3	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-8	MW-99-02	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-9	MW-99-04	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-10	MW-86-27	7470A, 7470A	D	30 mL	50 mL				
480-188016-B-11	DUP-080321	7470A, 7470A	D	30 mL	50 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-188016-1

SDG No.:

Batch Number: 592507 Batch Start Date: 08/11/21 13:05 Batch Analyst: Booth, Bryan M

Batch Method: 7470A Batch End Date: 08/11/21 15:05

Batch Notes	
Batch Comment	1 & 2 Prep 1220
Temperature - Corrected - End	94.5 Deg. C
Temperature - Corrected - Start	95.2 Deg. C
Digestion End Time	1505
Digestion Start Time	1305
Digestion Unit ID	HG-B
Sulfuric Acid ID	6595241
Nitric Acid ID	6597772
Hydroxylamine ID	6386931
Potassium Persulfate ID	6349794
Potassium Permanganate ID	6296395
Pipette/Syringe/Dispenser ID	Hg 8
Analyst ID - Spike Analyst	BB
Thermometer ID	170435802
Digestion Tube/Cup ID	2008043
Temperature - Uncorrected - End	93.5 Deg. C
Temperature - Uncorrected - Start	94.2 Deg. C

Basis	Basis Description
D	Dissolved

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.

Subcontract Data

Shipping and Receiving Documents

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Noah Robinson	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-163369-35901.1
Client Contact: Liane DeSantis	Phone: 315-395-7683	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: NY	Page: Page 1 of 3
Company: EA Engineering, Science, and Technology	PWSID:			Job #: 1602523/0005
Address: 269 West Jefferson St. Suite 104	Due Date Requested:			
City: Syracuse	TAT Requested (days): Standard			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 518-402-9662(Tel)	PO #: CallOut SMPC0001			
Email: ldesantis@eaest.com	WO #:			
Project Name: SMP C - Haviland Complex	Project #: 48024061			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCl | B - NaOH | C - Zn Acetate | D - Nitric Acid | E - NaHSO4 | F - MeOH | G - Amchlor | H - Ascorbic Acid | I - Ice | J - DI Water | K - EDTA | L - EDA | M - Hexane | N - None | O - AsNaO2 | P - Na2O4S | Q - Na2SO3 | R - Na2S2O3 | S - H2SO4 | T - TSP Dodecahydrate | U - Acetone | V - MCAA | W - pH 4-5 | Z - other (specify)
Other:

480-188016 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7470A (Dissolved metals, Tot mtls)	8260C - TCL VOAs	8260C - TCL VOAs + TICs	PFC_IDA - PFAS, Standard List (21) - BURL	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	A	N		
MW-99-03	8/2/21	1151	G	Water	Y	Y	X	X			15	MS/MSD
MW-86-24A	8/2/21	1340	G	Water	Y	N	X	X			5	
MW-99-01	8/2/21	1439	G	Water	Y	N	X	X			5	
MW-86-28	8/2/21	1546	G	Water	Y	N	X	X			5	
MW-12	8/3/21	1556	G	Water	Y	N	X	X			5	
MW-86-ISH	8/3/21	0913	G	Water	Y	Y	X	X		X	11	MS/MSD for PFAS
MW-86-X3	8/3/21	1041	G	Water	Y	N	X	X		X	7	
MW-99-02	8/3/21	1200	G	Water	Y	N	X	X		X	7	
MW-99-04	8/3/21	1327	G	Water	Y	N	X	X		X	7	
MW-86-27	8/3/21	1456	G	Water	Y	N	X	X		X	7	
DUP-080321	8/3/21		G	Water	Y	N	X	X		X	7	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC EQuIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Noah Robinson	8/3/21 1730				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/5/21 1000	Company TA

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.9, 3.3 #1 ICE

Ver: 06/08/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-163369-35901.2
Client Contact: Liane DeSantis	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin:	Page: Page 2 of 3
Company: EA Engineering, Science, and Technology	PWSID:			Job #:
Address: 269 West Jefferson St. Suite 104	Due Date Requested:			
City: Syracuse	TAT Requested (days):			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 518-402-9662(Tel)	PO #: CallOut SMPC0001			
Email: ldesantis@eaest.com	WO #:			
Project Name: SMP C - Haviland Complex	Project #: 48024061			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD	8010C, 7470A	8260C - TCL VOAs	8260C - TCL VOAs + TICs	PFC_IDA - PFAS, Standard List (21) - BURL										Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	A	A	N											
TB-072121	7/21/21	—	G	Water	N	N		X												2	Lab prepared Trip Blank
FB-080321	8/3/21	1640	G	Water	N	N				X										2	
EB-080321	8/3/21	1645	G	Water	N	N				X										2	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	
				Water																	



Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) NYSDEC EQUIS

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Noah Robinson	8/3/21 1730				
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/5/21 1000	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

480-188016 Chain of Custody

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Stone, Judy L	COC No: 480-65692.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Job #: 480-188016-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 8/18/2021		
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: SMP C - Haviland Complex	Project #: 48024061		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_IWT PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-86-1SH (480-188016-6)	8/3/21	09:13 Eastern		Water			X	2	
MW-86-1SH (480-188016-6MS)	8/3/21	09:13 Eastern	MS	Water			X	2	
MW-86-1SH (480-188016-6MSD)	8/3/21	09:13 Eastern	MSD	Water			X	2	
MW-86-X3 (480-188016-7)	8/3/21	10:41 Eastern		Water			X	2	
MW-99-02 (480-188016-8)	8/3/21	12:00 Eastern		Water			X	2	
MW-99-04 (480-188016-9)	8/3/21	13:27 Eastern		Water			X	2	
MW-86-27 (480-188016-10)	8/3/21	14:56 Eastern		Water			X	2	
DUP-080321 (480-188016-11)	8/3/21	Eastern		Water			X	2	
FB-080321 (480-188016-13)	8/3/21	16:40 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: Christopher Nicolo	Date/Time: 8/9/21 1700	Company TA	Received by:	Date/Time: 8/10/21 1035	Company EPA3N
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Stone, Judy L	Carrier Tracking No(s):	COC No: 480-65692.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Judy.Stone@Eurofinset.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-188016-1
Address: 530 Community Drive, Suite 11,	Due Date Requested: 8/18/2021			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			
Email:	WO #:			
Project Name: SMP C - Haviland Complex	Project #: 48024061			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_IVWT PFAS, Standard List (21 Analytes)	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
EB-080321 (480-188016-14)	8/3/21	16:45 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	PGJ				8/10/21 1035	ETAB
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

eurofins | Environment Testing TestAmerica

ORIGIN ID:DKKA (716) 691-2600
SAMPLE RECEIPT
EUROFINS TESTAMERICA BUFFALO
10 HAZELWOOD DR

AMHERST, NY 14228
UNITED STATES US

SHIP DATE: 09AUG21
ACTWGT: 38.20 LB
CAD: 846654/CAFE3409
DIMS: 26x15x14 IN

BILL SENDER

TO **SAMPLE MGT.**
TA BURLINGTON
530 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 923-1026
REF: TA SOUTH BURLINGTON

FedEx Express

TRK# 0201 **1888 3864 7711**

TUE - 10 AUG 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US **BTV**

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-188016-1

Login Number: 188016
List Number: 1
Creator: Sabuda, Brendan 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	2.9 3.3 #1 ICE
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	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: New York State D.E.C. Job Number: 480-188016-1

Login Number: 188016 **List Source: Eurofins TestAmerica, Burlington**
List Number: 2 **List Creation: 08/10/21 11:31 AM**
Creator: Sofio, Michael G

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	1513455
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	1.9ºC
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?	N/A	
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	