

July 30, 2021

Mr. Steven M. Scharf, P.E.
New York State Department of Environmental Conservation
Remedial Bureau A
Division of Environmental Remediation
625 Broadway, 12th Floor
Albany, New York 12233-7015

**RE: Emerging Contaminants Sampling Summary Report
NYSDEC Site No 526022, Malta Rocket Test Site
Town of Malta, Saratoga County**

Dear Mr. Scharf:

On behalf of General Electric Company (GE), this report provides results of groundwater samples collected and analyzed for 1,4-dioxane and per- and polyfluoroalkyl substances (PFAS) at the Malta Rocket Test Site (the Site) in the Town of Malta, New York. The sampling was completed in accordance with the approved work plan dated April 2, 2021.

The scope included a focused sampling and analysis program for 1,4-dioxane and PFAS in order to determine to presence or absence of these constituents at the Malta Rocket Test Site. To accomplish the screening-level assessment, samples were collected from three shallow wells including the most impacted well currently sampled (MW-25S) and wells upgradient (MW-28S) and downgradient (DGC-4S) of well MW-25S, as shown on the attached Figure 1.

The samples were collected using low-flow sampling procedures using PFAS-free bladder pump with HDPE tubing. Samples were placed into pre-labelled, laboratory-provided bottleware. Once filled, each water sample bottle was immediately placed into a cooler containing regular ice. The sample identifier, location, date, time, and sample collector was recorded on a water sampling form (attached) and a chain-of-custody form. One set of QC samples was also collected during the sampling event for the PFAS and 1,4- dioxane analyses. The QC samples for the PFAS analyses included one blind duplicate sample, one matrix spike/matrix spike duplicate (MS/MSD) sample pair, one equipment blank (collected from the bladder pump), and one field reagent blank (lab-supplied water transferred to lab-supplied container at time of sampling). The QC samples for the 1,4-dioxane analyses included one blind duplicate sample, one MS/MSD sample pair and one equipment blank.

Sample coolers were delivered to the TestAmerica (TA) shipping center in Syracuse, New York. From there, the cooler with the PFAS samples was shipped to TA's lab in Sacramento, California, and the cooler with the 1,4-dioxane samples was shipped to TA's lab in Buffalo, New York. The water samples and associated QC samples were analyzed by TA in accordance with the following methods:

- PFAS – USEPA Method 537.1 (modified; low level) with a reporting limit equal to or below 2 ppt for each of the six PFAS
- 1,4-Dioxane – USEPA Method 8270 SIM with a reporting limit equal to or below 0.28 ppb.

Category B analytical data packages were provided by the laboratories (attached). A data usability review was completed (attached) in accordance with NYSDEC Division of Environmental Remediation guidance DER-10, Appendix 2B for Data Usability Summary Reports (DUSR).

The groundwater sampling analytical reports are attached and summarized in Table 1. According to NYSDEC criteria:

- Neither PFOA nor PFOS was detected in any water sample at or above 10 ng/L.
- No other individual PFAS (not PFOA or PFOS) was detected in any water sample at or above 100 ng/L.
- No total concentration of PFAS (including PFOA and PFOS) were detected in any water sample at or above 500 ng/L.
- No detectable concentration of 1,4-dioxane was found in any water sample.

Should you have any questions pertaining to this summary report, please contact me.

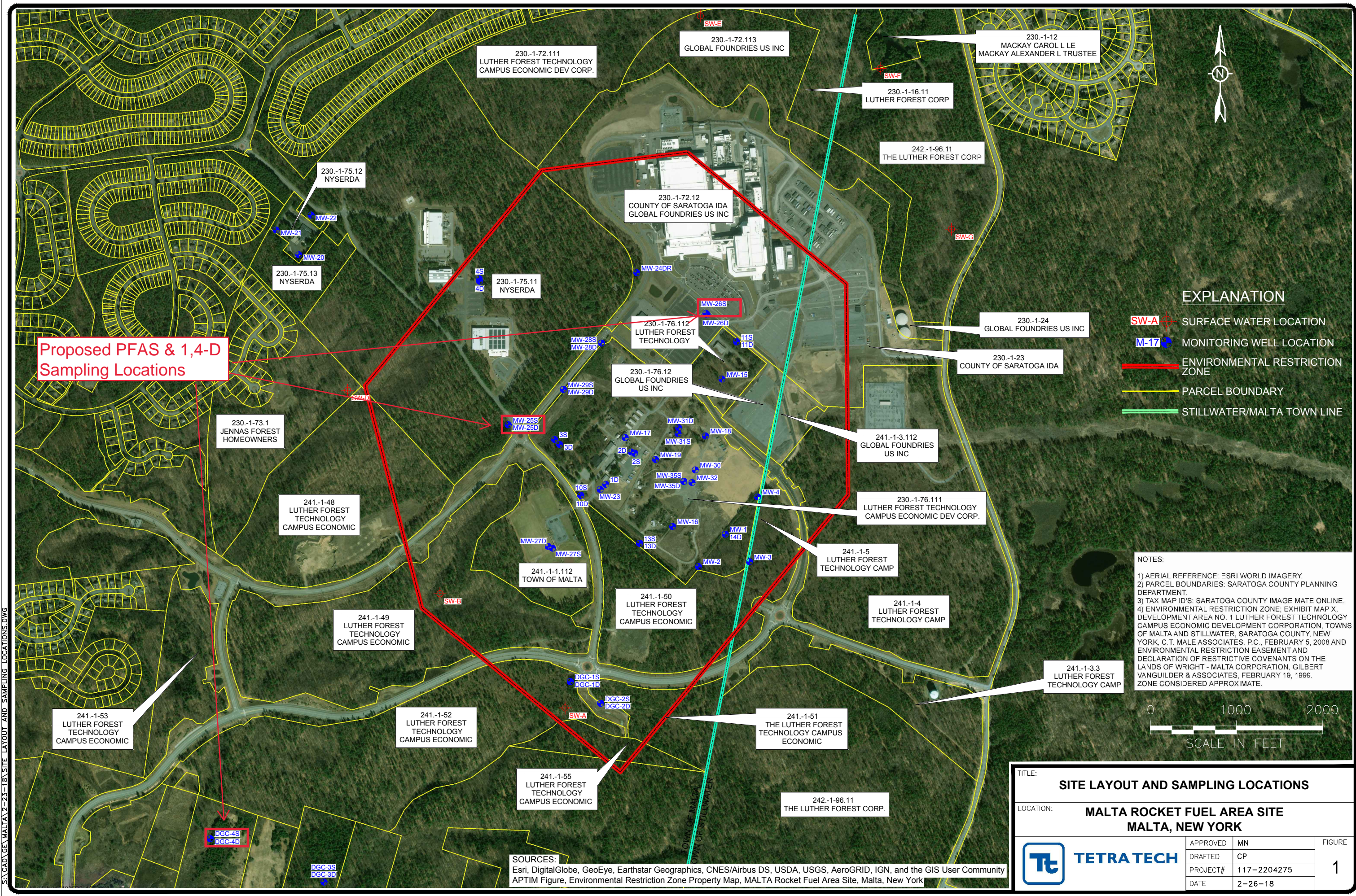
Sincerely,
Tetra Tech



Michael R. Noel, P.G.
Principal Hydrogeologist

Attachments

cc: Matt Calacone, GE
Richard Mustico, NYSDEC
John Swartwout, NYSDEC
Charlotte Bethony, NYSDOH
James Sullivan, NYSDOH
Patricia Simmons Pierre, USEPA
Tom Roohan, Luther Forrest TCEDC
Andrew Lacorcieri, Global Foundries
Darren O'Connor, Town of Malta



Proposed PFAS & 1,4-D Sampling Locations

- EXPLANATION**
- SW-A SURFACE WATER LOCATION
 - M-17 MONITORING WELL LOCATION
 - ENVIRONMENTAL RESTRICTION ZONE
 - PARCEL BOUNDARY
 - STILLWATER/MALTA TOWN LINE

NOTES:

- 1) AERIAL REFERENCE: ESRI WORLD IMAGERY.
- 2) PARCEL BOUNDARIES: SARATOGA COUNTY PLANNING DEPARTMENT.
- 3) TAX MAP ID'S: SARATOGA COUNTY IMAGE MATE ONLINE.
- 4) ENVIRONMENTAL RESTRICTION ZONE; EXHIBIT MAP X, DEVELOPMENT AREA NO. 1 LUTHER FOREST TECHNOLOGY CAMPUS ECONOMIC DEVELOPMENT CORPORATION, TOWNS OF MALTA AND STILLWATER, SARATOGA COUNTY, NEW YORK, C.T. MALE ASSOCIATES, P.C., FEBRUARY 5, 2008 AND ENVIRONMENTAL RESTRICTION COVENANTS ON THE LANDS OF WRIGHT - MALTA CORPORATION, GILBERT VANGUILDER & ASSOCIATES, FEBRUARY 19, 1999. ZONE CONSIDERED APPROXIMATE.



TITLE: SITE LAYOUT AND SAMPLING LOCATIONS			
LOCATION: MALTA ROCKET FUEL AREA SITE MALTA, NEW YORK			
	APPROVED	MN	FIGURE 1
	DRAFTED	CP	
	PROJECT#	117-2204275	
	DATE	2-26-18	

SOURCES:
Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
APTIM Figure, Environmental Restriction Zone Property Map, MALTA Rocket Fuel Area Site, Malta, New York

S:\CAD\GE MALTA\2-23-18\SITE LAYOUT AND SAMPLING LOCATIONS.DWG

Table 1. Emerging Contaminants Sampling Results

Analyte	Units	MW-26S	Q	MW-25S	Q	MW-25S Dup	Q	DGC-4S	Q
Perfluorobutanoic acid (PFBA)	(ng/L)	9.2		6.3		5.9		2.7	J
Perfluoropentanoic acid (PFPeA)	(ng/L)	4.2		0.70	J	0.62	J	1.4	J
Perfluorohexanoic acid (PFHxA)	(ng/L)	2.6		0.42	J	0.39	J	0.53	J
Perfluoroheptanoic acid (PFHpA)	(ng/L)	0.48	J	0.27	J	0.26	J	0.22	J I
Perfluorooctanoic acid (PFOA)	(ng/L)	0.61	J	0.40	J	0.51	J	0.53	J
Perfluorononanoic acid (PFNA)	(ng/L)	<0.23		<0.24		<0.24		<0.24	
Perfluorodecanoic acid (PFDA)	(ng/L)	<0.25		<0.26		<0.26		<0.26	
Perfluoroundecanoic acid (PFUnA)	(ng/L)	<0.28		<0.29		<0.29		<0.3	
Perfluorododecanoic acid (PFDoA)	(ng/L)	<0.32		<0.33		<0.33		<0.33	
Perfluorotridecanoic acid (PFTrIA)	(ng/L)	<0.36		<0.37		<0.37		<0.37	
Perfluorotetradecanoic acid (PFTeA)	(ng/L)	<0.52		<0.53		<0.54		<0.54	
Perfluorobutanesulfonic acid (PFBS)	(ng/L)	3.3		0.35	J	0.33	J	0.92	J
Perfluorohexanesulfonic acid (PFHxS)	(ng/L)	<0.25		<0.26		<0.26		<0.26	
Perfluoroheptanesulfonic Acid (PFHpS)	(ng/L)	<0.19		<0.2		<0.2		<0.2	
Perfluorooctanesulfonic acid (PFOS)	(ng/L)	<0.24		<0.25		0.31	J I B	0.28	J B
Perfluorodecanesulfonic acid (PFDS)	(ng/L)	<0.25		<0.26		<0.26		<0.26	
Perfluorooctanesulfonamide (PFOSA)	(ng/L)	<0.48		<0.49		<0.49		<0.5	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	(ng/L)	<0.75		<0.76		<0.77		<0.78	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	(ng/L)	<0.62		<0.63		<0.64		<0.64	
1H,1H,2H,2H-perfluorooctanesulfonicacid (6:2)	(ng/L)	<0.91		<0.93		<0.94		<0.94	
1H,1H,2H,2H-perfluorodecanesulfonicacid (8:2)	(ng/L)	<0.32		<0.33		<0.33		<0.34	
1,4-Dioxane	(ug/L)	<0.095		<0.095		<0.095		<0.097	

J: Result < RL but \geq MDL and concentration is an approximate value

I: Value is estimated maximum possible concentration

B: Compound found in blank sample

Bold entries depict the 6 original UCMR3 chemicals

Low Flow Groundwater Sample Collection Record

Job No.: <u>117C-GE00023</u>	Start Time: <u>1345</u>	Weather Conditions: <u>Cloudy Sun</u>
Site: <u>Malta</u>	Finish Time: <u>1430</u>	
Sampling Location: <u>MW-255</u>	Date Sampled: <u>5/10/9</u>	Key #:

1. Water Level Data:

Well Diameter (in): <u>2 1/2</u>	Depth to water from MP (ft): <u>28.85</u>
Measuring Point Description: <u>Top of PVC steel</u>	Length of Water Column (ft): <u>9.15</u>
Measuring Point Elevation (ft): <u>314.70</u>	Depth to Top of Screen from GS (ft): <u>28</u>
Ground Surface Elevation (ft): _____	Depth to Bottom of Screen from GS (ft): <u>38</u>
Length of Stickup (ft): _____	Saturated Well Volume (Gal): <u>1.2</u>
Depth of well from GS (ft): <u>38</u>	Depth to pump intake from MP (ft): <u>~33</u>
	Depth to Center of PDB from MP (ft): <u>NA</u>

2. Field Water Quality Measurements:

Field testing equipment used: Pump: _____ Meters: _____ Flow Through Cell: _____
 type, model # and serial # (if app.) PFA-free Geotech Bladder 431 Pro DS # 19F203181

Time	Pump rate (ml/min)	Temp (°C) ± 3%	Cond (mS/cm) ± 3%	D.O. (mg/L) ± 10%	ORP (mV) ± 10 mV	pH ± 0.1	Turbidity <1 or ±10%	Water level 0.3 ft
1350	150	10.2	0.540	8.03	100.6	7.63	115.28	28.91
1355	150	10.2	0.541	7.99	101.7	7.60	108.64	28.91
1400	150	10.5	0.546	8.00	103.4	7.59	107.31	28.91
1405	150	10.6	0.543	8.00	104.6	7.59	106.71	28.91
1410	150	10.6	0.547	8.00	106.2	7.59	106.11	28.91

Cumulative Purge Volume (Gal): ~1 gal

3. Sample Collection:

Sample ID	Container Type	Preservation	Analysis	Time
1. MW-255	250ml Plastic	-	PFA	1415
2.	1L Amber	-	8270 SIM	
3. MW-255-D	250ml Plastic	-	PFA	1430
4.	1L Amber	-	8270 SIM	

4. Comments:

purged before starting low flow

NOTES: NA = Not Applicable, NM = Not Measured
 Sampler Name: John L. Doll Sampler Signature: _____

Low Flow Groundwater Sample Collection Record

Job No.: <u>117C-GE00023</u>	Start Time: <u>1545</u>	Weather Conditions: _____
Site: <u>Malta</u>	Finish Time: <u>1625</u>	<u>Sunny 50s</u>
Sampling Location: <u>MW-265</u>	Date Sampled: <u>5/10/74</u>	Key #: _____

1. Water Level Data:

Well Diameter (in): <u>3"</u>	Depth to water from MP (ft): <u>20.81</u>
Measuring Point Description: <u>Top of PVC steel</u>	Length of Water Column (ft): <u>21.18</u>
Measuring Point Elevation (ft): <u>327.46</u>	Depth to Top of Screen from GS (ft): <u>32</u>
Ground Surface Elevation (ft): _____	Depth to Bottom of Screen from GS (ft): <u>42</u>
Length of Stickup (ft): _____	Saturated Well Volume (Gal): <u>4.0</u>
Depth of well from GS (ft): <u>42</u>	Depth to pump intake from MP (ft): <u>~38</u>
	Depth to Center of PDB from MP (ft): <u>NA</u>

2. Field Water Quality Measurements:

Field testing equipment used: _____ Pump: PF83-dura Gectech Model 451 Pro PWS # 197-20310
 type, model # and serial # (if app.) _____ Meters: _____ Flow Through Cell: _____

Time	Pump rate (ml/min)	Temp (°C) ± 3%	Cond (mS/cm) ± 3%	D.O. (mg/L) ± 10%	ORP (mV) ± 10 mV	pH ± 0.1	Turbidity <1 or ±10%	Water level 0.3 ft
1545	150	12.2	3.974	2.64	168.5	7.28	231.02	20.81
1550	150	11.8	3.60	3.55	171.0	7.10	103.10	20.81
1555	150	11.8	3.572	3.92	173.8	7.14	81.06	20.81
1600	150	11.0	3.563	4.11	174.8	7.12	73.83	20.81
1605	150	11.0	3.556	4.28	175.7	7.10	67.75	20.81
1610	150	11.0	3.556	4.34	177.2	7.09	66.13	20.81
1615	150	11.0	3.550	4.41	177.2	7.07	64.91	20.81

Cumulative Purge Volume (Gal): ~1.5

3. Sample Collection:

Sample ID	Container Type	Preservation	Analysis	Time
1. <u>MW-265</u>	<u>250ml Plastic</u>	<u>-</u>	<u>PF83</u>	<u>1620</u>
2. _____	<u>1L Amber</u>	<u>-</u>	<u>8270 SIM</u>	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____

4. Comments:

pre-project before low flow

NOTES: NA = Not Applicable, NM = Not Measured
 Sampler Name: Jack Lindell Sampler Signature: [Signature]

Data Usability Summary Report

For: Emerging Contaminant Sampling, Malta Rocket Test Site (NYSDEC Site No 526022), Town of Malta, Saratoga County

By: Lynn Arabia, CHMM and Angel Guzman, Environmental Chemists, Tetra Tech

Date: 07/27/2021

As outlined in New York State Department of Environmental Conservation (NYSDEC) Program Policy DER-10, *Technical Guidance for Site Investigation and Remediation*, this Data Usability Summary Report (DUSR) will provide a “thorough evaluation of the analytical data to determine whether or not the data, as presented, meet the site/project specific criteria for data quality and use.” Sample data obtained in May 2021 during the Emerging Contaminant Sampling at the Malta Rocket Test Site were reviewed to determine the quality and reliability of the laboratory analytical results. The samples underwent analysis by Eurofins TestAmerica in Burlington, Vermont. Analyses included the following:

- Fluorinated Alkyl Substances (PFAS) – EPA Method 537.1 Modified
- Semi-volatile Organic Compounds (1,4-Dioxane) - EPA SW-846 Method 8270D SIM ID

The following data package was reviewed:

- 200-58440-1
- 480-184568-1

The data usability assessment consisted of checking and verifying quality control (QC) documentation, including custody, holding times, reporting limits, instrument calibrations (as noted in the package narratives; calibration data not directly evaluated), blank contamination, surrogates, laboratory control samples (LCS), and matrix spike/matrix spike duplicate/matrix duplicate (MS/MSD/MD) samples. In addition, the precision of field duplicates was also assessed. The data packages were evaluated for conformance to the requirements of the analytical methodologies and, for the PFAS constituents, the *Data Review Guidelines for Analysis of PFAS in Non-Potable Water and Solids* (Appendix I of New York State Department of Environmental Conservation *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS)*, January 2021) and, for 1,4-dioxane, the *National Functional Guidelines for Organic Superfund Methods Data Review* (U.S. Environmental Protection Agency, November 2020).

This DUSR was prepared by/under the oversight of Lynn Arabia, CHMM, an experienced environmental scientist who was independent of the sample collection and laboratory analyses for the project. Ms. Arabia holds a Bachelor of Science in Chemistry and has more than 29 years of experience in site investigations, chemical analysis, environmental fate and transport analysis, and quality assurance/quality control (QA/QC). Ms. Arabia has also been responsible for site

chemistry assessments, implementation of field programs (sites from <1 acre to ~5,000 acres), development of project, data, and measurement quality objectives (i.e., PQOs, DQOs, MQOs), data validation reviews for multiple contaminant fractions/matrices, and data analysis evaluations.

Custody:

- Samples were received at the analytical laboratory in good condition and at the appropriate temperature ($4^{\circ}\text{C} \pm 2^{\circ}\text{C}$).

Holding Times:

- Samples were extracted and analyzed within applicable holding times (14 and 28 days, respectively).

Reporting Limits:

- No samples required dilutions.

Instrument Calibrations:

- No issues were noted.

Blank Contamination:

- The method blank associated with preparation batch 200-167147 and analysis batch 200-167173 contained PFOS at a concentration of 0.422 ng/L, which is greater than the method detection limit (MDL) but less than one half the reporting limit (RL). Associated samples with detectable concentrations of PFOS (less than 10 times the blank result) were qualified as “not detected” at the RL.
- The field blank contained PFOS at a concentration of 0.26 mg/L, which is greater than the MDL but less than one half the RL. Associated samples with detectable concentrations of PFOS (less than 10 times the blank result) were qualified as “not detected” at the reporting limit.
- The method blank associated with preparation batch 480-580914 and analysis batch 480-581278 contained 1,4-dioxane at a concentration of 0.113 ug/L, which is greater than the MDL but less than the RL. The associated samples did not contain detectable concentrations of 1,4-dioxane, and no qualifications were required.

Isotope Dilution/Surrogates:

- No issues were noted.

Internal Standards:

- No issues were noted.

LCS/LCSD:

- No issues were noted.

MS/MSD:

- No MS/MSD was performed.

Field Duplicates:

The precision of the field sampling effort was determined through the analysis of a field duplicate sample, with 22 possible comparisons. The acceptance criterion for these duplicates is a RPD between the original environmental sample and the duplicate sample of less than or equal to 30 percent when the constituent was detected in both samples at concentrations greater than two times the RL.

The RPD was not calculated for any set of sample pairs where:

- Concentrations were not detected in both of the data sets; and
- Only one detection was present for either the parent sample or the duplicate but not both.

For the field duplicates, RPDs were calculated in six sample pairs, where both samples had detected constituents. RPDs ranged from 5.9 to 24.2 percent. One hundred percent of the calculated RPDs were less than or equal to the RPD acceptance value of 30% and are considered acceptable.

Agreement between the original sample and the duplicate can be inferred when both of the results are non-detects (which occurred for 16 parent/duplicate pairs) and when the one detected result value is at or below the reporting limit (RL) of the other sample set (no sample pairs for this sampling event).

Overall, 100 percent of the parent/duplicate sample pairs were deemed to be in agreement.

Completeness

Completeness is determined by the number of usable sample results for the data set. Analytical performance was generally within specified limits, with minor exceedances of these applicable limits requiring qualification of the sample results. There were no results deemed unusable during the data review, and thus 100% of the data were determined to be usable for the name of event. Therefore, the entire data set is considered acceptable and meets the project's data quality objectives.

Analyte	Units	MW-25S	MW-25S-D	RPD
		Result	Result	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ng/L	ND	ND	Both ND
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ng/L	ND	ND	Both ND
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ng/L	ND	ND	Both ND
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ng/L	ND	ND	Both ND
Perfluorobutanesulfonic acid (PFBS)	ng/L	0.35	0.33	5.9
Perfluorobutanoic acid (PFBA)	ng/L	6.3	5.9	6.6
Perfluorodecanesulfonic acid (PFDS)	ng/L	ND	ND	Both ND
Perfluorodecanoic acid (PFDA)	ng/L	ND	ND	Both ND
Perfluorododecanoic acid (PFDoA)	ng/L	ND	ND	Both ND
Perfluoroheptanesulfonic Acid (PFHpS)	ng/L	ND	ND	Both ND
Perfluoroheptanoic acid (PFHpA)	ng/L	0.27	0.26	3.8
Perfluorohexanesulfonic acid (PFHxS)	ng/L	ND	ND	Both ND
Perfluorohexanoic acid (PFHxA)	ng/L	0.42	0.39	7.4
Perfluorononanoic acid (PFNA)	ng/L	ND	ND	Both ND
Perfluorooctanesulfonamide (PFOSA)	ng/L	ND	ND	Both ND
Perfluorooctanesulfonic acid (PFOS)	ng/L	ND	ND	Both ND
Perfluorooctanoic acid (PFOA)	ng/L	0.4	0.51	24.2
Perfluoropentanoic acid (PFPeA)	ng/L	0.7	0.62	12.1
Perfluorotetradecanoic acid (PFTeA)	ng/L	ND	ND	Both ND
Perfluorotridecanoic acid (PFTriA)	ng/L	ND	ND	Both ND
Perfluoroundecanoic acid (PFUnA)	ng/L	ND	ND	Both ND
1,4-Dioxane	ug/L	ND	ND	Both ND

Notes:

RPD: Relative Percent Difference

ug/L: microgram per liter

mg/L: milligram per liter

RPD greater than acceptance criteria (30%)

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL QUAL	FINAL QUAL	UNIT	DILUTION	PQL	RL
480-184568-1	DGC-4S	05/10/2021	05/14/2021	05/17/2021	Water	N	8270D_SIM_MS_ID	123-91-1	1,4-Dioxane	0.19	U		U	ug/L	1	0.097	0.19
480-184568-2	MW-26S	05/10/2021	05/14/2021	05/17/2021	Water	N	8270D_SIM_MS_ID	123-91-1	1,4-Dioxane	0.19	U		U	ug/L	1	0.095	0.19
480-184568-3	MW-25S	05/10/2021	05/14/2021	05/17/2021	Water	N	8270D_SIM_MS_ID	123-91-1	1,4-Dioxane	0.19	U		U	ug/L	1	0.095	0.19
480-184568-4	MW-25S-D	05/10/2021	05/14/2021	05/17/2021	Water	N	8270D_SIM_MS_ID	123-91-1	1,4-Dioxane	0.19	U		U	ug/L	1	0.095	0.19
MB 480-580914/1-A	MB 480-580914/1-A		05/14/2021	05/17/2021	Water	MB	8270D_SIM_MS_ID	123-91-1	1,4-Dioxane	0.113	J		J	ug/L	1	0.20	0.20
480-184568-1	DGC-4S	05/10/2021	05/14/2021	05/17/2021	Water	N	8270D_SIM_MS_ID	17647-74-4	1,4-Dioxane-d8	32				%	1		
480-184568-2	MW-26S	05/10/2021	05/14/2021	05/17/2021	Water	N	8270D_SIM_MS_ID	17647-74-4	1,4-Dioxane-d8	34				%	1		
480-184568-3	MW-25S	05/10/2021	05/14/2021	05/17/2021	Water	N	8270D_SIM_MS_ID	17647-74-4	1,4-Dioxane-d8	31				%	1		
480-184568-4	MW-25S-D	05/10/2021	05/14/2021	05/17/2021	Water	N	8270D_SIM_MS_ID	17647-74-4	1,4-Dioxane-d8	32				%	1		
LCS 480-580914/2-A	LCS 480-580914/2-A		05/14/2021	05/17/2021	Water	LCS	8270D_SIM_MS_ID	123-91-1	1,4-Dioxane	113				%	1	0.20	0.20
LCS 480-580914/2-A	LCS 480-580914/2-A		05/14/2021	05/17/2021	Water	LCS	8270D_SIM_MS_ID	17647-74-4	1,4-Dioxane-d8	33				%	1		
MB 480-580914/1-A	MB 480-580914/1-A		05/14/2021	05/17/2021	Water	MB	8270D_SIM_MS_ID	17647-74-4	1,4-Dioxane-d8	32				%	1		

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL_QUAL	FINAL_QUAL	UNIT	DILUTION	PQL	RL
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00996	13C2 PFDA	84				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00998	13C2 PFDoA	75				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00993	13C2 PFHxA	97				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02116	13C2 PFTeDA	76				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00997	13C2 PFUnA	77				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02337	13C3 PFBS	92				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00992	13C4 PFBA	90				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01892	13C4 PFHpA	93				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00990	13C4 PFOA	95				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00991	13C4 PFOS	86				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00995	13C5 PFNA	93				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01893	13C5 PFPeA	91				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01056	13C8 FOSA	74				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00994	18O2 PFHxS	95				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.7	U		U	ng/L	1	0.32	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.1	U		U	ng/L	1	0.91	4.1
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02118	d3-NMeFOSAA	79				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02117	d5-NEIFOSAA	77				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02279	M2-6:2 FTS	100				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02280	M2-8:2 FTS	92				%	1		
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEIFOSAA)	4.1	U		U	ng/L	1	0.62	4.1
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.1	U		U	ng/L	1	0.75	4.1
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.3				ng/L	1	1.7	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-22-4	Perfluorobutanoic acid (PFBA)	9.2				ng/L	1	4.1	4.1
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.7	U		U	ng/L	1	0.25	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-76-2	Perfluorodecanoic acid (PFDA)	1.7	U		U	ng/L	1	0.25	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	307-55-1	Perfluorododecanoic acid (PFDoA)	1.7	U		U	ng/L	1	0.32	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U		U	ng/L	1	0.19	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-85-9	Perfluoroheptanoic acid (PFHpA)	0.48	J		J	ng/L	1	1.7	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.7	U		U	ng/L	1	0.25	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	307-24-4	Perfluorohexanoic acid (PFHxA)	2.6				ng/L	1	1.7	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-95-1	Perfluorononanoic acid (PFNA)	1.7	U		U	ng/L	1	0.23	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.7	U		U	ng/L	1	0.48	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.7	U		U	ng/L	1	0.24	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-67-1	Perfluorooctanoic acid (PFOA)	0.61	J		J	ng/L	1	1.7	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2706-90-3	Perfluoropentanoic acid (PFPeA)	4.2				ng/L	1	1.7	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.7	U		U	ng/L	1	0.52	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.7	U		U	ng/L	1	0.36	1.7
200-58440-1	MW-26S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.7	U		U	ng/L	1	0.28	1.7

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL_QUAL	FINAL_QUAL	UNIT	DILUTION	PQL	RL
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00996	13C2 PFDoA	88				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00998	13C2 PFDoA	70				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00993	13C2 PFHxA	90				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02116	13C2 PFTeDA	77				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00997	13C2 PFUnA	74				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02337	13C3 PFBS	87				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00992	13C4 PFBA	89				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01892	13C4 PFHpA	95				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00990	13C4 PFOA	93				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00991	13C4 PFOS	87				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00995	13C5 PFNA	94				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01893	13C5 PFPeA	89				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01056	13C8 FOSA	77				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00994	18O2 PFHxS	89				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.7	U		U	ng/L	1	0.33	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.2	U		U	ng/L	1	0.93	4.2
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02118	d3-NMeFOSAA	79				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02117	d5-NEFOSAA	91				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02279	M2-6:2 FTS	93				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02280	M2-8:2 FTS	86				%	1		
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEFOSAA)	4.2	U		U	ng/L	1	0.63	4.2
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.2	U		U	ng/L	1	0.76	4.2
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.35	J		J	ng/L	1	1.7	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-22-4	Perfluorobutanoic acid (PFBA)	6.3				ng/L	1	4.2	4.2
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-76-2	Perfluorodecanoic acid (PFDA)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	307-55-1	Perfluorododecanoic acid (PFDoA)	1.7	U		U	ng/L	1	0.33	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U		U	ng/L	1	0.20	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27	J		J	ng/L	1	1.7	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	307-24-4	Perfluorohexanoic acid (PFHxA)	0.42	J		J	ng/L	1	1.7	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-95-1	Perfluorononanoic acid (PFNA)	1.7	U		U	ng/L	1	0.24	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.7	U		U	ng/L	1	0.49	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.7	U		U	ng/L	1	0.25	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-67-1	Perfluorooctanoic acid (PFOA)	0.40	J		J	ng/L	1	1.7	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2706-90-3	Perfluoropentanoic acid (PFPeA)	0.70	J		J	ng/L	1	1.7	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.7	U		U	ng/L	1	0.53	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.7	U		U	ng/L	1	0.37	1.7
200-58440-2	MW-25S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.7	U		U	ng/L	1	0.29	1.7

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL_QUAL	FINAL_QUAL	UNIT	DILUTION	PQL	RL
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00996	13C2 PFDoA	87				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00998	13C2 PFDoA	76				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00993	13C2 PFHxA	94				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02116	13C2 PFTeDA	79				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00997	13C2 PFUnA	81				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02337	13C3 PFBS	87				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00992	13C4 PFBA	88				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01892	13C4 PFHpA	89				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00990	13C4 PFOA	93				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00991	13C4 PFOS	87				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00995	13C5 PFNA	86				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01893	13C5 PFPeA	89				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01056	13C8 FOSA	82				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00994	18O2 PFHxS	88				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.7	U		U	ng/L	1	0.33	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.3	U		U	ng/L	1	0.94	4.3
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02118	d3-NMeFOSAA	81				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02117	d5-NEFOSAA	88				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02279	M2-6:2 FTS	94				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02280	M2-8:2 FTS	93				%	1		
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEFOSAA)	4.3	U		U	ng/L	1	0.64	4.3
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.3	U		U	ng/L	1	0.77	4.3
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.33	J		J	ng/L	1	1.7	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-22-4	Perfluorobutanoic acid (PFBA)	5.9				ng/L	1	4.3	4.3
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-76-2	Perfluorodecanoic acid (PFDA)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	307-55-1	Perfluorododecanoic acid (PFDoA)	1.7	U		U	ng/L	1	0.33	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U		U	ng/L	1	0.20	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-85-9	Perfluoroheptanoic acid (PFHpA)	0.26	J		J	ng/L	1	1.7	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	307-24-4	Perfluorohexanoic acid (PFHxA)	0.39	J		J	ng/L	1	1.7	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-95-1	Perfluorononanoic acid (PFNA)	1.7	U		U	ng/L	1	0.24	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.7	U		U	ng/L	1	0.49	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.31	J B	J / U	ND at RL	ng/L	1	1.7	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-67-1	Perfluorooctanoic acid (PFOA)	0.51	J		J	ng/L	1	1.7	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2706-90-3	Perfluoropentanoic acid (PFPeA)	0.62	J		J	ng/L	1	1.7	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.7	U		U	ng/L	1	0.54	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.7	U		U	ng/L	1	0.37	1.7
200-58440-3	MW-25S-D	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.7	U		U	ng/L	1	0.29	1.7

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL_QUAL	FINAL_QUAL	UNIT	DILUTION	PQL	RL
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00996	13C2 PFDoA	89				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00998	13C2 PFDoA	72				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00993	13C2 PFHxA	99				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02116	13C2 PFTeDA	77				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00997	13C2 PFUnA	82				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02337	13C3 PFBS	94				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00992	13C4 PFBA	89				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01892	13C4 PFHpA	96				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00990	13C4 PFOA	101				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00991	13C4 PFOS	89				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00995	13C5 PFNA	95				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01893	13C5 PFPeA	96				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL01056	13C8 FOSA	80				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL00994	18O2 PFHxS	98				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.7	U		U	ng/L	1	0.34	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.3	U		U	ng/L	1	0.94	4.3
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02118	d3-NMeFOSAA	86				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02117	d5-NEFOSAA	83				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02279	M2-6:2 FTS	94				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	STL02280	M2-8:2 FTS	99				%	1		
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEFOSAA)	4.3	U		U	ng/L	1	0.64	4.3
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.3	U		U	ng/L	1	0.78	4.3
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.92	J		J	ng/L	1	1.7	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-22-4	Perfluorobutanoic acid (PFBA)	2.7	J		J	ng/L	1	4.3	4.3
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-76-2	Perfluorodecanoic acid (PFDA)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	307-55-1	Perfluorododecanoic acid (PFDoA)	1.7	U		U	ng/L	1	0.33	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U		U	ng/L	1	0.20	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-85-9	Perfluoroheptanoic acid (PFHpA)	0.22	J I	J	J	ng/L	1	1.7	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	307-24-4	Perfluorohexanoic acid (PFHxA)	0.53	J		J	ng/L	1	1.7	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	375-95-1	Perfluorononanoic acid (PFNA)	1.7	U		U	ng/L	1	0.24	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.7	U		U	ng/L	1	0.50	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.28	J B	U	ND at RL	ng/L	1	1.7	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	335-67-1	Perfluorooctanoic acid (PFOA)	0.53	J		J	ng/L	1	1.7	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2706-90-3	Perfluoropentanoic acid (PFPeA)	1.4	J		J	ng/L	1	1.7	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.7	U		U	ng/L	1	0.54	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.7	U		U	ng/L	1	0.37	1.7
200-58440-4	DGC-4S	05/10/2021	05/21/2021	05/21/2021	Water	N	PFC_IDA	2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.7	U		U	ng/L	1	0.30	1.7

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL_QUAL	FINAL_QUAL	UNIT	DILUTION	PQL	RL
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00996	13C2 PFDoA	101				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00998	13C2 PFDoA	82				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00993	13C2 PFHxA	100				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL02116	13C2 PFTeDA	78				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00997	13C2 PFUnA	92				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL02337	13C3 PFBS	93				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00992	13C4 PFBA	100				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL01892	13C4 PFHpA	95				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00990	13C4 PFOA	100				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00991	13C4 PFOS	90				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00995	13C5 PFNA	98				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL01893	13C5 PFPeA	98				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL01056	13C8 FOSA	63				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL00994	18O2 PFHxS	92				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	1.7	U		U	ng/L	1	0.34	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	4.4	U		U	ng/L	1	0.96	4.4
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL02118	d3-NMeFOSAA	100				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL02117	d5-NEIFOSAA	99				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL02279	M2-6:2 FTS	99				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	STL02280	M2-8:2 FTS	114				%	1		
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEIFOSAA)	4.4	U		U	ng/L	1	0.65	4.4
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	4.4	U		U	ng/L	1	0.79	4.4
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.7	U		U	ng/L	1	0.22	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	375-22-4	Perfluorobutanoic acid (PFBA)	4.4	U		U	ng/L	1	0.78	4.4
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	335-77-3	Perfluorodecanesulfonic acid (PFDS)	1.7	U		U	ng/L	1	0.27	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	335-76-2	Perfluorodecanoic acid (PFDA)	1.7	U		U	ng/L	1	0.27	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	307-55-1	Perfluorododecanoic acid (PFDoA)	1.7	U		U	ng/L	1	0.34	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.7	U		U	ng/L	1	0.20	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	375-85-9	Perfluoroheptanoic acid (PFHpA)	1.7	U		U	ng/L	1	0.21	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.7	U		U	ng/L	1	0.26	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	375-24-4	Perfluorohexanoic acid (PFHxA)	1.7	U		U	ng/L	1	0.39	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	375-95-1	Perfluorononanoic acid (PFNA)	1.7	U		U	ng/L	1	0.25	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	754-91-6	Perfluorooctanesulfonamide (PFOSA)	1.7	U		U	ng/L	1	0.50	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.26	J B		J B	ng/L	1	1.7	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	335-67-1	Perfluorooctanoic acid (PFOA)	1.7	U		U	ng/L	1	0.37	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	2706-90-3	Perfluoropentanoic acid (PFPeA)	1.7	U		U	ng/L	1	0.41	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	376-06-7	Perfluorotetradecanoic acid (PFTeA)	1.7	U		U	ng/L	1	0.55	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	72629-94-8	Perfluorotridecanoic acid (PFTriA)	1.7	U		U	ng/L	1	0.38	1.7
200-58440-5	FIELD BLANK	05/10/2021	05/21/2021	05/21/2021	Water	FB	PFC_IDA	2058-94-8	Perfluoroundecanoic acid (PFUnA)	1.7	U		U	ng/L	1	0.30	1.7

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL_QUAL	FINAL_QUAL	UNIT	DILUTION	PQL	RL
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00996	13C2 PFDoA	102				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00998	13C2 PFDoA	82				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00993	13C2 PFHxA	99				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02116	13C2 PFTeDA	80				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00997	13C2 PFUnA	89				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02337	13C3 PFBS	93				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00992	13C4 PFBA	100				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL01892	13C4 PFHpA	97				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00990	13C4 PFOA	96				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00991	13C4 PFOS	94				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00995	13C5 PFNA	99				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL01893	13C5 PFPeA	100				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL01056	13C8 FOSA	68				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00994	18O2 PFHxS	96				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	102				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	110				%	1	5.0	5.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02118	d3-NMeFOSAA	97				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02117	d5-NEIFOSAA	94				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02279	M2-6:2 FTS	96				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02280	M2-8:2 FTS	105				%	1		
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEIFOSAA)	98				%	1	5.0	5.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	99				%	1	5.0	5.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-73-5	Perfluorobutanesulfonic acid (PFBS)	109				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-22-4	Perfluorobutanoic acid (PFBA)	104				%	1	5.0	5.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	335-77-3	Perfluorodecanesulfonic acid (PFDS)	97				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	335-76-2	Perfluorodecanoic acid (PFDA)	97				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	307-55-1	Perfluorododecanoic acid (PFDoA)	109				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	104				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-85-9	Perfluoroheptanoic acid (PFHpA)	105				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	105				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	307-24-4	Perfluorohexanoic acid (PFHxA)	109				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-95-1	Perfluorononanoic acid (PFNA)	101				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	754-91-6	Perfluorooctanesulfonamide (PFOSA)	103				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	109				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	335-67-1	Perfluorooctanoic acid (PFOA)	107				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	2706-90-3	Perfluoropentanoic acid (PFPeA)	106				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	376-06-7	Perfluorotetradecanoic acid (PFTeA)	105				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	72629-94-8	Perfluorotridecanoic acid (PFTriA)	104				%	1	2.0	2.0
LCS 200-167147/2-A	LCS 200-167147/2-A		05/21/2021	05/21/2021	Water	LCS	PFC_IDA	2058-94-8	Perfluoroundecanoic acid (PFUnA)	114				%	1	2.0	2.0

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL_QUAL	FINAL_QUAL	UNIT	DILUTION	PQL	RL
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00996	13C2 PFDoA	103			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00998	13C2 PFDoA	88			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00993	13C2 PFHxA	101			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02116	13C2 PFTeDA	87			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00997	13C2 PFUnA	99			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02337	13C3 PFBS	98			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00992	13C4 PFBA	102			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL01892	13C4 PFHpA	99			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00990	13C4 PFOA	101			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00991	13C4 PFOS	100			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00995	13C5 PFNA	99			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL01893	13C5 PFPeA	101			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL01056	13C8 FOSA	74			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL00994	18O2 PFHxS	96			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	103			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	108			%	1	5.0	5.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02118	d3-NMeFOSAA	104			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02117	d5-NEIFOSAA	98			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02279	M2-6:2 FTS	96			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	STL02280	M2-8:2 FTS	106			%	1		
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEIFOSAA)	109			%	1	5.0	5.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	109			%	1	5.0	5.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-73-5	Perfluorobutanesulfonic acid (PFBS)	105			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-22-4	Perfluorobutanoic acid (PFBA)	104			%	1	5.0	5.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	335-77-3	Perfluorodecanesulfonic acid (PFDS)	100			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	335-76-2	Perfluorodecanoic acid (PFDA)	109			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	307-55-1	Perfluorododecanoic acid (PFDoA)	108			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-85-9	Perfluoroheptanesulfonic Acid (PFHpS)	104			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-85-9	Perfluoroheptanoic acid (PFHpA)	104			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	108			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	307-24-4	Perfluorohexanoic acid (PFHxA)	105			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	375-95-1	Perfluorononanoic acid (PFNA)	105			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	754-91-6	Perfluorooctanesulfonamide (PFOSA)	109			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	104			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	335-67-1	Perfluorooctanoic acid (PFOA)	110			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	2706-90-3	Perfluoropentanoic acid (PFPeA)	112			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	376-06-7	Perfluorotetradecanoic acid (PFTeA)	109			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	72629-94-8	Perfluorotridecanoic acid (PFTriA)	103			%	1	2.0	2.0
LCS	200-167147/3-A	LCS	200-167147/3-A	05/21/2021	05/21/2021	Water	LCS	PFC_IDA	2058-94-8	Perfluoroundecanoic acid (PFUnA)	105			%	1	2.0	2.0

LABSMPINO	CLIENT_ID	SAMPLE_DAT	DATE_EXTRA	ANALDATE	MATRIX	QC_TYPE	METHOD_ID	CASNUM	PARAMETER	CONC	QUAL	VAL_QUAL	FINAL_QUAL	UNIT	DILUTION	PQL	RL
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00996	13C2 PFDoA	92				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00998	13C2 PFDoA	69				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00993	13C2 PFHxA	90				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL02116	13C2 PFTeDA	66				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00997	13C2 PFUnA	77				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL02337	13C3 PFBS	87				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00992	13C4 PFBA	89				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL01892	13C4 PFHpA	86				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00990	13C4 PFOA	88				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00991	13C4 PFOS	88				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00995	13C5 PFNA	88				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL01893	13C5 PFPeA	88				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL01056	13C8 FOSA	53				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL00994	18O2 PFHxS	84				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	2.0	U		U	ng/L	1	0.39	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	5.0	U		U	ng/L	1	1.1	5.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL02118	d3-NMeFOSAA	88				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL02117	d5-NEFOSAA	77				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL02279	M2-6:2 FTS	84				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	STL02280	M2-8:2 FTS	94				%	1		
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEFOSAA)	5.0	U		U	ng/L	1	0.74	5.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	5.0	U		U	ng/L	1	0.90	5.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.0	U		U	ng/L	1	0.25	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	375-22-4	Perfluorobutanoic acid (PFBA)	5.0	U		U	ng/L	1	0.89	5.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	335-77-3	Perfluorodecanesulfonic acid (PFDS)	2.0	U		U	ng/L	1	0.31	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	335-76-2	Perfluorodecanoic acid (PFDA)	2.0	U		U	ng/L	1	0.30	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	307-55-1	Perfluorododecanoic acid (PFDoA)	2.0	U		U	ng/L	1	0.39	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	2.0	U		U	ng/L	1	0.23	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	375-85-9	Perfluoroheptanoic acid (PFHpA)	2.0	U		U	ng/L	1	0.24	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.0	U		U	ng/L	1	0.30	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	307-24-4	Perfluorohexanoic acid (PFHxA)	2.0	U		U	ng/L	1	0.45	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	375-95-1	Perfluorononanoic acid (PFNA)	2.0	U		U	ng/L	1	0.28	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	754-91-6	Perfluorooctanesulfonamide (PFOSA)	2.0	U		U	ng/L	1	0.58	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.422	J		J	ng/L	1	2.0	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	335-67-1	Perfluorooctanoic acid (PFOA)	2.0	U		U	ng/L	1	0.42	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	2706-90-3	Perfluoropentanoic acid (PFPeA)	2.0	U		U	ng/L	1	0.47	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	376-06-7	Perfluorotetradecanoic acid (PFTeA)	2.0	U		U	ng/L	1	0.63	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	72629-94-8	Perfluorotridecanoic acid (PFTriA)	2.0	U		U	ng/L	1	0.43	2.0
MB 200-167147/1-A	MB 200-167147/1-A		05/21/2021	05/21/2021	Water	MB	PFC_IDA	2058-94-8	Perfluoroundecanoic acid (PFUnA)	2.0	U		U	ng/L	1	0.34	2.0

ANALYTICAL REPORT

Job Number: 480-184568-1

Job Description: Malta, NY - Emerging Contaminants

For:

Tetra Tech GEO

Three Lan Drive

Suite 100

Westford, MA 01886

Attention: Mr. Jeff Liddle



Approved for release.
Wyatt B Watson
Project Management Assistant I
5/21/2021 2:55 PM

Designee for
Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
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05/21/2021

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 Eurofins TestAmerica Project Manager who has signed this report.

Eurofins 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.

Eurofins TestAmerica, Buffalo

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Job Narrative
480-184568-1

Receipt

The samples were received on 5/12/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS Semi VOA

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

Organic Prep

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-184568-1	DGC-4S	Water	05/10/21 12:25	05/12/21 08:00	
480-184568-2	MW-26S	Water	05/10/21 16:20	05/12/21 08:00	
480-184568-3	MW-25S	Water	05/10/21 14:15	05/12/21 08:00	
480-184568-4	MW-25S-D	Water	05/10/21 14:30	05/12/21 08:00	

Detection Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

Client Sample ID: DGC-4S

Lab Sample ID: 480-184568-1

No Detections.

Client Sample ID: MW-26S

Lab Sample ID: 480-184568-2

No Detections.

Client Sample ID: MW-25S

Lab Sample ID: 480-184568-3

No Detections.

Client Sample ID: MW-25S-D

Lab Sample ID: 480-184568-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Method Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

Method	Method Description	Protocol	Laboratory
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF

Protocol References:

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

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

Client Sample ID: DGC-4S

Lab Sample ID: 480-184568-1

Date Collected: 05/10/21 12:25

Matrix: Water

Date Received: 05/12/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.097	ug/L		05/14/21 08:12	05/17/21 20:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				05/14/21 08:12	05/17/21 20:08	1

Client Sample ID: MW-26S

Lab Sample ID: 480-184568-2

Date Collected: 05/10/21 16:20

Matrix: Water

Date Received: 05/12/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		05/14/21 08:12	05/17/21 20:32	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	34		15 - 110				05/14/21 08:12	05/17/21 20:32	1

Client Sample ID: MW-25S

Lab Sample ID: 480-184568-3

Date Collected: 05/10/21 14:15

Matrix: Water

Date Received: 05/12/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		05/14/21 08:12	05/17/21 20:55	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				05/14/21 08:12	05/17/21 20:55	1

Client Sample ID: MW-25S-D

Lab Sample ID: 480-184568-4

Date Collected: 05/10/21 14:30

Matrix: Water

Date Received: 05/12/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		05/14/21 08:12	05/17/21 21:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				05/14/21 08:12	05/17/21 21:19	1

Isotope Dilution Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

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

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-184568-1	DGC-4S	32
480-184568-2	MW-26S	34
480-184568-3	MW-25S	31
480-184568-4	MW-25S-D	32
LCS 480-580914/2-A	Lab Control Sample	33
MB 480-580914/1-A	Method Blank	32

Surrogate Legend

DXE = 1,4-Dioxane-d8

QC Sample Results

Client: Tetra Tech GEO
 Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

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

Lab Sample ID: MB 480-580914/1-A
Matrix: Water
Analysis Batch: 581278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 580914

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.113	J	0.20	0.10	ug/L		05/14/21 08:12	05/17/21 16:36	1
MB MB									
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110				05/14/21 08:12	05/17/21 16:36	1

Lab Sample ID: LCS 480-580914/2-A
Matrix: Water
Analysis Batch: 581278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 580914

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	1.00	1.13		ug/L		113	40 - 140
LCS LCS							
Isotope Dilution	%Recovery	Qualifier	Limits				
1,4-Dioxane-d8	33		15 - 110				

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

GC/MS Semi VOA

Prep Batch: 580914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184568-1	DGC-4S	Total/NA	Water	3510C	
480-184568-2	MW-26S	Total/NA	Water	3510C	
480-184568-3	MW-25S	Total/NA	Water	3510C	
480-184568-4	MW-25S-D	Total/NA	Water	3510C	
MB 480-580914/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-580914/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 581278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184568-1	DGC-4S	Total/NA	Water	8270D SIM ID	580914
480-184568-2	MW-26S	Total/NA	Water	8270D SIM ID	580914
480-184568-3	MW-25S	Total/NA	Water	8270D SIM ID	580914
480-184568-4	MW-25S-D	Total/NA	Water	8270D SIM ID	580914
MB 480-580914/1-A	Method Blank	Total/NA	Water	8270D SIM ID	580914
LCS 480-580914/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	580914

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

Client Sample ID: DGC-4S

Lab Sample ID: 480-184568-1

Date Collected: 05/10/21 12:25

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			580914	05/14/21 08:12	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	581278	05/17/21 20:08	PJQ	TAL BUF

Client Sample ID: MW-26S

Lab Sample ID: 480-184568-2

Date Collected: 05/10/21 16:20

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			580914	05/14/21 08:12	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	581278	05/17/21 20:32	PJQ	TAL BUF

Client Sample ID: MW-25S

Lab Sample ID: 480-184568-3

Date Collected: 05/10/21 14:15

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			580914	05/14/21 08:12	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	581278	05/17/21 20:55	PJQ	TAL BUF

Client Sample ID: MW-25S-D

Lab Sample ID: 480-184568-4

Date Collected: 05/10/21 14:30

Matrix: Water

Date Received: 05/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			580914	05/14/21 08:12	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	581278	05/17/21 21:19	PJQ	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 480-184568-1

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

Method 8270D

SIM-ID

Semivolatile Organic Compounds
(GC/MS SIM / Isotope Dilution) by
Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-184568-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DXE #
DGC-4S	480-184568-1	32
MW-26S	480-184568-2	34
MW-25S	480-184568-3	31
MW-25S-D	480-184568-4	32
	MB 480-580914/1-A	32
	LCS 480-580914/2-A	33

DXE = 1,4-Dioxane-d8

QC LIMITS
15-110

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: U33162004.D

Lab ID: LCS 480-580914/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	1.13	113	40-140	
1,4-Dioxane-d8	10.0	3.29	33	15-110	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Lab File ID: U33162003.D Lab Sample ID: MB 480-580914/1-A
 Matrix: Water Date Extracted: 05/14/2021 08:12
 Instrument ID: HP5973U Date Analyzed: 05/17/2021 16:36
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-580914/2-A	U33162004.D	05/17/2021 16:59
DGC-4S	480-184568-1	U33162012.D	05/17/2021 20:08
MW-26S	480-184568-2	U33162013.D	05/17/2021 20:32
MW-25S	480-184568-3	U33162014.D	05/17/2021 20:55
MW-25S-D	480-184568-4	U33162015.D	05/17/2021 21:19

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Lab File ID: U33161869.D DFTPP Injection Date: 05/11/2021
 Instrument ID: HP5973U DFTPP Injection Time: 14:19
 Analysis Batch No.: 580391

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	22.0
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	24.8
70	Less than 2% of mass 69	0.2 (0.7) 1
127	10-80% of Base Peak	38.7
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.1
275	10-60% of Base Peak	33.9
365	Greater than 1% of mass 198	4.7
441	present but less than 24% of mass 442	29.6 (17.0) 2
442	Greater than 50% of mass 198	174.3
443	15-24% of mass 442	36.1 (20.7) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-580391/3	U33161870.D	05/11/2021	15:26
	IC 480-580391/4	U33161871.D	05/11/2021	15:49
	IC 480-580391/5	U33161872.D	05/11/2021	16:13
	ICIS 480-580391/6	U33161873.D	05/11/2021	16:37
	IC 480-580391/7	U33161874.D	05/11/2021	17:01
	IC 480-580391/8	U33161875.D	05/11/2021	17:24
	IC 480-580391/9	U33161876.D	05/11/2021	17:48
	ICV 480-580391/10	U33161877.D	05/11/2021	18:12

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Lab File ID: U33161995.D DFTPP Injection Date: 05/17/2021
 Instrument ID: HP5973U DFTPP Injection Time: 13:25
 Analysis Batch No.: 581278

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	21.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	24.5
70	Less than 2% of mass 69	0.1 (0.4) 1
127	10-80% of Base Peak	38.8
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.0
275	10-60% of Base Peak	33.8
365	Greater than 1% of mass 198	5.1
441	present but less than 24% of mass 442	30.8 (16.9) 2
442	Greater than 50% of mass 198	181.8
443	15-24% of mass 442	37.9 (20.8) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-581278/3	U33161996.D	05/17/2021	13:52
	MB 480-580914/1-A	U33162003.D	05/17/2021	16:36
	LCS 480-580914/2-A	U33162004.D	05/17/2021	16:59
DGC-4S	480-184568-1	U33162012.D	05/17/2021	20:08
MW-26S	480-184568-2	U33162013.D	05/17/2021	20:32
MW-25S	480-184568-3	U33162014.D	05/17/2021	20:55
MW-25S-D	480-184568-4	U33162015.D	05/17/2021	21:19

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Sample No.: ICIS 480-580391/6 Date Analyzed: 05/11/2021 16:37
 Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)
 Lab File ID (Standard): U33161873.D Heated Purge: (Y/N) N
 Calibration ID: 41783

	DCBd4		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	762962	5.83				
UPPER LIMIT	1525924	6.33				
LOWER LIMIT	381481	5.33				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 480-580391/10		928938	5.83			
CCVIS 480-581278/3		625389	5.82			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Sample No.: CCVIS 480-581278/3 Date Analyzed: 05/17/2021 13:52
 Instrument ID: HP5973U GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)
 Lab File ID (Standard): U33161996.D Heated Purge: (Y/N) N
 Calibration ID: 41783

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		625389	5.82				
UPPER LIMIT		1250778	6.32				
LOWER LIMIT		312695	5.32				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-580914/1-A		647367	5.83				
LCS 480-580914/2-A		607667	5.83				
480-184568-1	DGC-4S	603212	5.82				
480-184568-2	MW-26S	614083	5.82				
480-184568-3	MW-25S	602883	5.82				
480-184568-4	MW-25S-D	578497	5.82				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Client Sample ID: DGC-4S Lab Sample ID: 480-184568-1
 Matrix: Water Lab File ID: U33162012.D
 Analysis Method: 8270D SIM ID Date Collected: 05/10/2021 12:25
 Extract. Method: 3510C Date Extracted: 05/14/2021 08:12
 Sample wt/vol: 1030 (mL) Date Analyzed: 05/17/2021 20:08
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 581278 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.097

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162012.D
 Lims ID: 480-184568-A-1-A
 Client ID: DGC-4S
 Sample Type: Client
 Inject. Date: 17-May-2021 20:08:30 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0098640-019
 Operator ID: PJQ Instrument ID: HP5973U
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 18-May-2021 11:35:22 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1673

First Level Reviewer: quirkp Date: 18-May-2021 11:37:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.630	2.552	0.078	90	193324	3.19	31.9	
3 1,4-Dioxane	88	2.674	2.593	0.081	52	1079	0.0523		
* 2 1,4-Dichlorobenzene-d4	152	5.824	5.820	0.004	95	603212	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00213 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162012.D

Injection Date: 17-May-2021 20:08:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: 480-184568-A-1-A

Lab Sample ID: 480-184568-1

Worklist Smp#: 19

Client ID: DGC-4S

Injection Vol: 1.0 ul

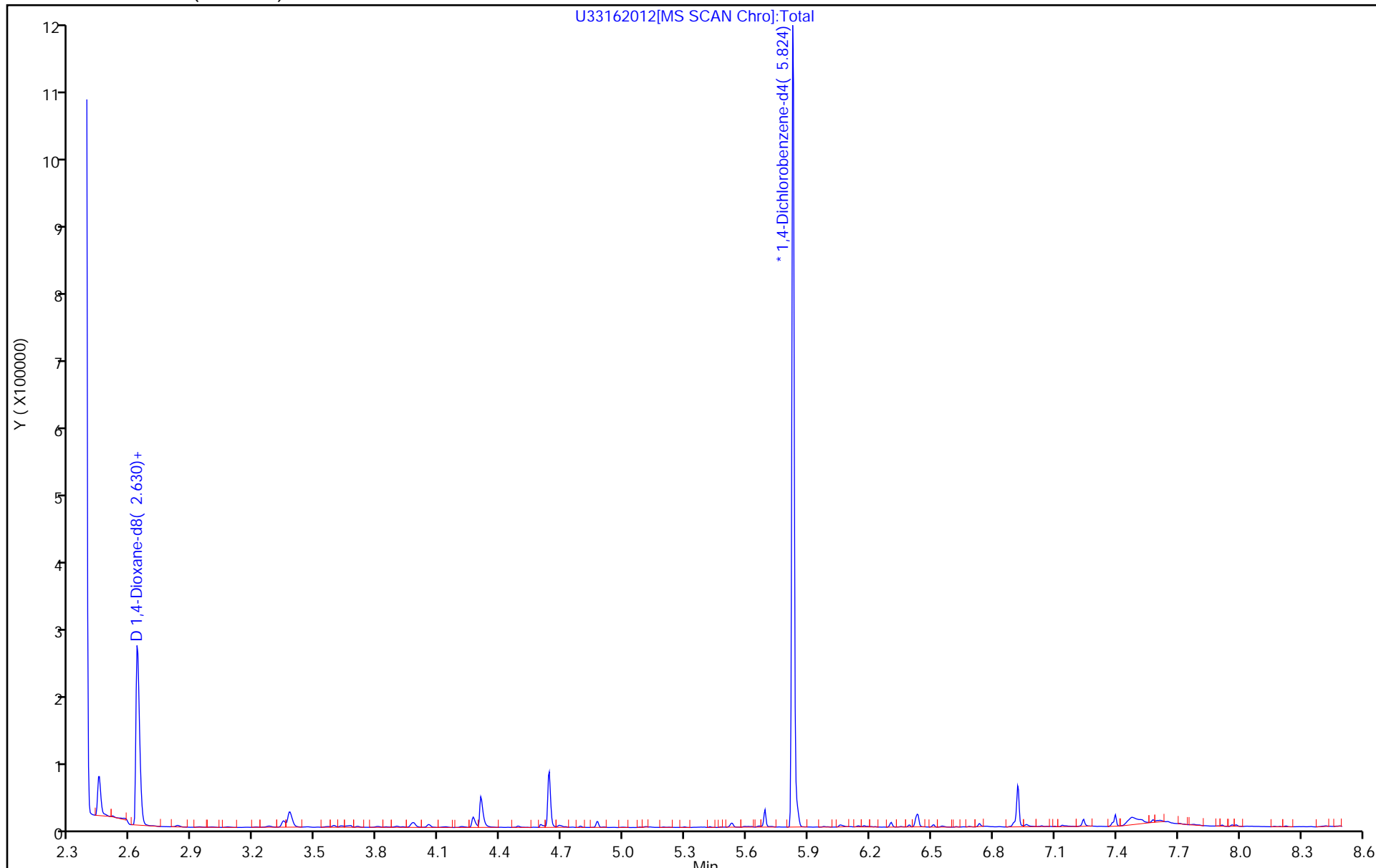
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162012.D

Injection Date: 17-May-2021 20:08:30

Instrument ID: HP5973U

Lims ID: 480-184568-A-1-A

Lab Sample ID: 480-184568-1

Client ID: DGC-4S

Operator ID: PJQ

ALS Bottle#: 19

Worklist Smp#: 19

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

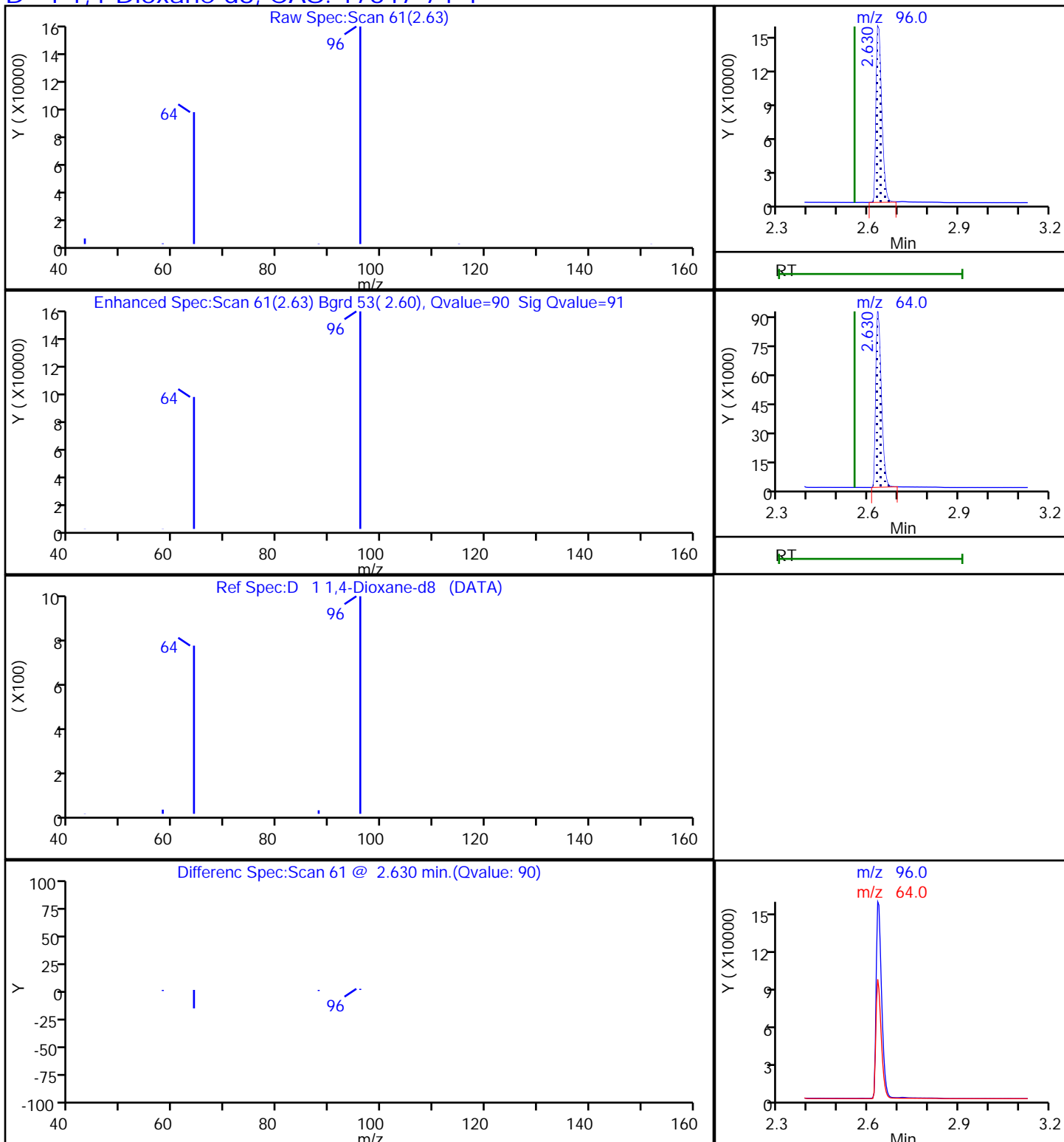
Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Client Sample ID: MW-26S Lab Sample ID: 480-184568-2
 Matrix: Water Lab File ID: U33162013.D
 Analysis Method: 8270D SIM ID Date Collected: 05/10/2021 16:20
 Extract. Method: 3510C Date Extracted: 05/14/2021 08:12
 Sample wt/vol: 1050 (mL) Date Analyzed: 05/17/2021 20:32
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 581278 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	34		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162013.D
 Lims ID: 480-184568-A-2-A
 Client ID: MW-26S
 Sample Type: Client
 Inject. Date: 17-May-2021 20:32:30 ALS Bottle#: 20 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0098640-020
 Operator ID: PJQ Instrument ID: HP5973U
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 18-May-2021 11:35:22 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1673

First Level Reviewer: quirkp Date: 18-May-2021 11:38:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.638	2.552	0.086	90	207497	3.36	33.6	
3 1,4-Dioxane	88	2.687	2.593	0.094	55	1043	0.0471		
* 2 1,4-Dichlorobenzene-d4	152	5.824	5.820	0.004	95	614083	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00213 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 18-May-2021 11:38:08

Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162013.D

Injection Date: 17-May-2021 20:32:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: 480-184568-A-2-A

Lab Sample ID: 480-184568-2

Worklist Smp#: 20

Client ID: MW-26S

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

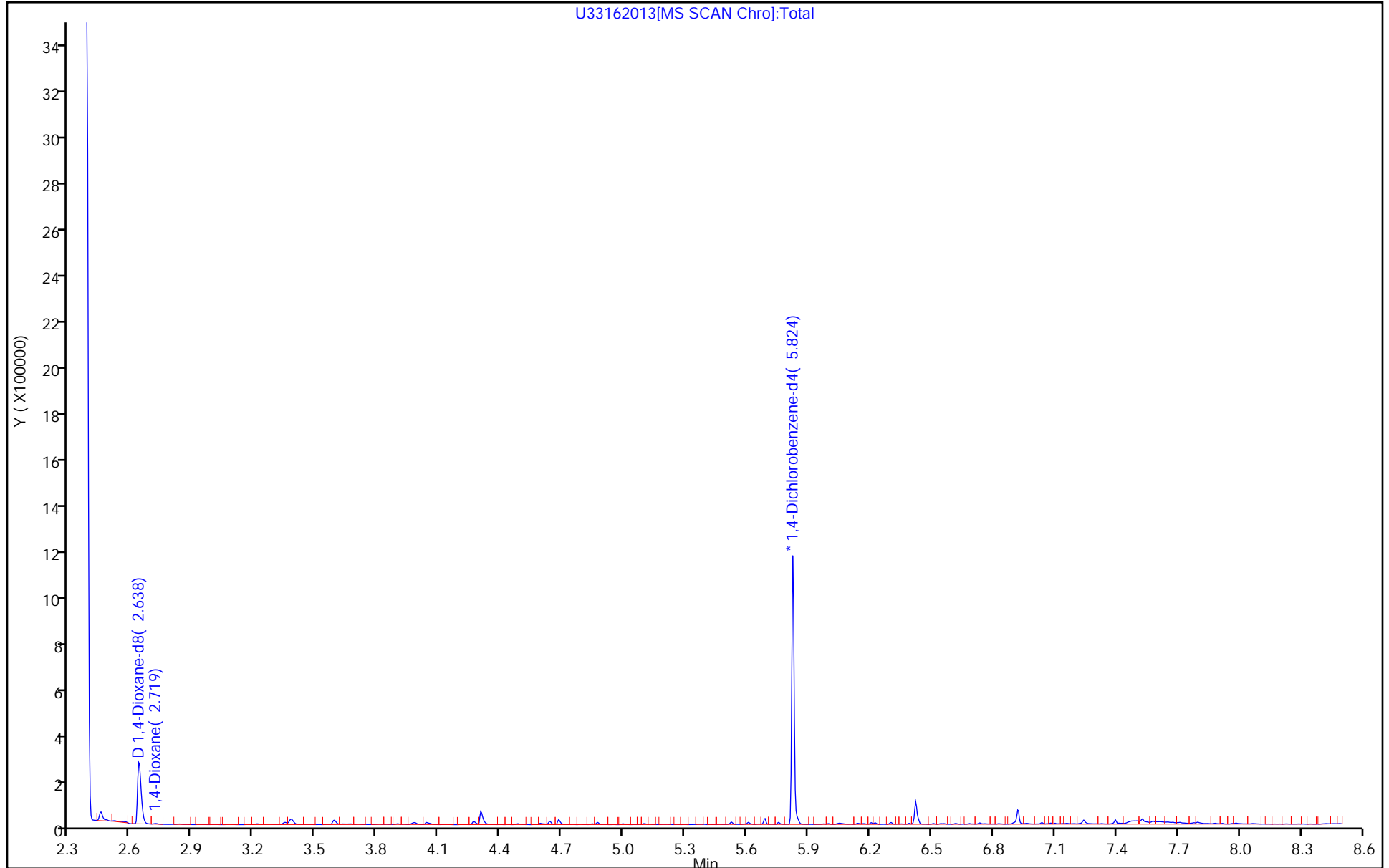
ALS Bottle#: 20

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

U33162013[MS SCAN Chro]:Total



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162013.D

Injection Date: 17-May-2021 20:32:30

Instrument ID: HP5973U

Lims ID: 480-184568-A-2-A

Lab Sample ID: 480-184568-2

Client ID: MW-26S

Operator ID: PJQ

ALS Bottle#: 20

Worklist Smp#: 20

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

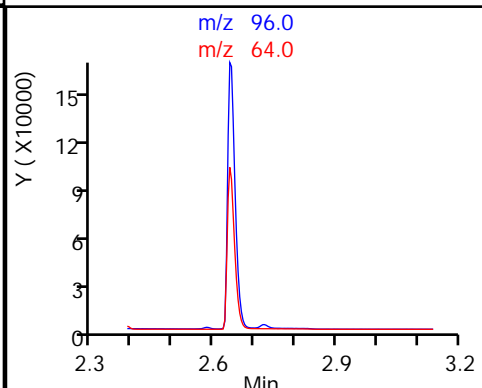
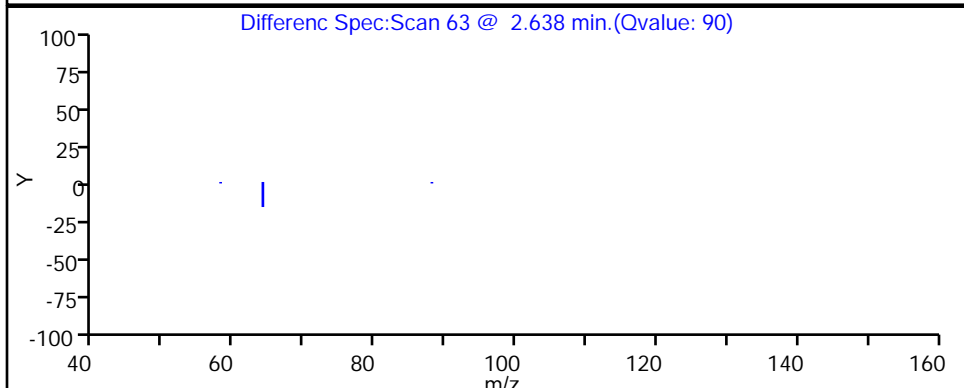
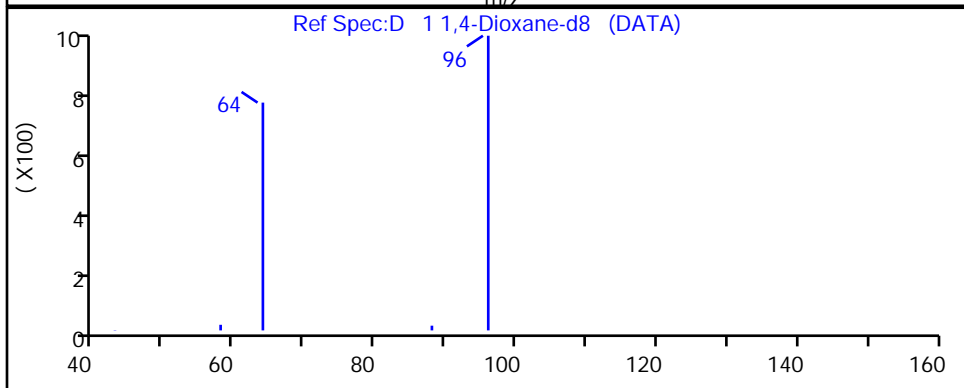
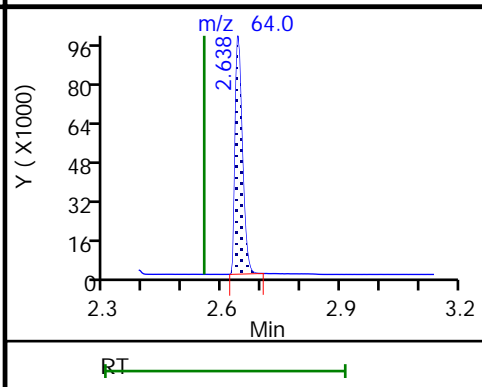
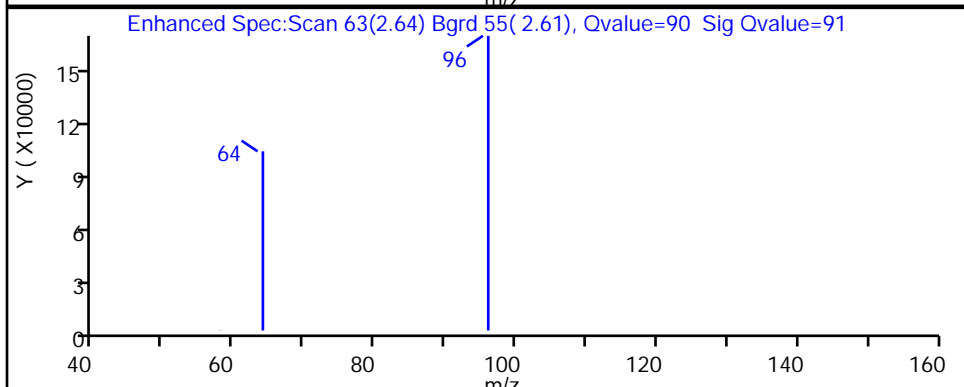
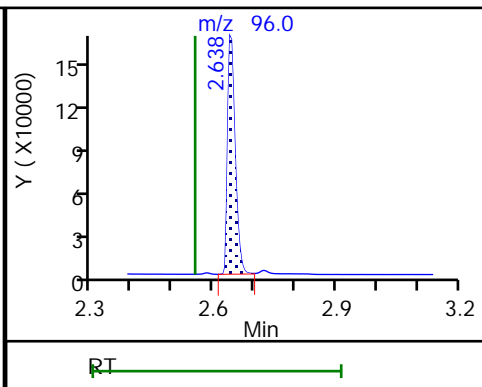
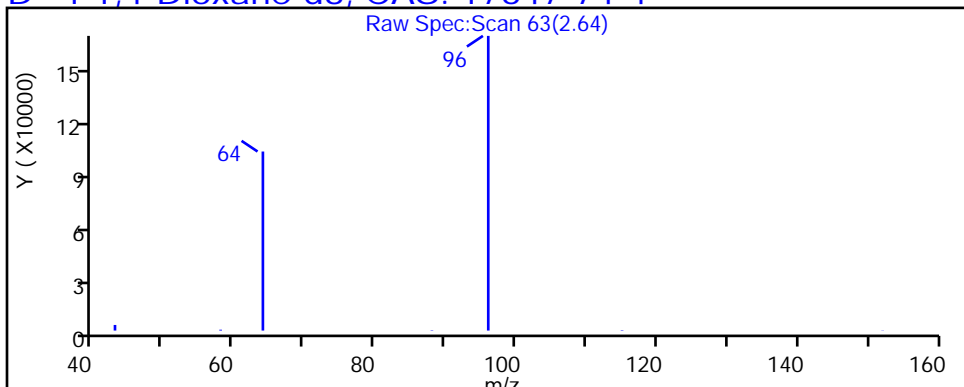
Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Client Sample ID: MW-25S Lab Sample ID: 480-184568-3
 Matrix: Water Lab File ID: U33162014.D
 Analysis Method: 8270D SIM ID Date Collected: 05/10/2021 14:15
 Extract. Method: 3510C Date Extracted: 05/14/2021 08:12
 Sample wt/vol: 1050 (mL) Date Analyzed: 05/17/2021 20:55
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 581278 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	31		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162014.D
 Lims ID: 480-184568-C-3-A
 Client ID: MW-25S
 Sample Type: Client
 Inject. Date: 17-May-2021 20:55:30 ALS Bottle#: 21 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0098640-021
 Operator ID: PJQ Instrument ID: HP5973U
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 18-May-2021 11:35:22 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1673

First Level Reviewer: quirkp Date: 18-May-2021 11:38:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.634	2.552	0.082	89	188556	3.11	31.1	
3 1,4-Dioxane	88	2.674	2.593	0.081	47	786	0.0391		
* 2 1,4-Dichlorobenzene-d4	152	5.824	5.820	0.004	95	602883	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00213 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162014.D

Injection Date: 17-May-2021 20:55:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: 480-184568-C-3-A

Lab Sample ID: 480-184568-3

Worklist Smp#: 21

Client ID: MW-25S

Injection Vol: 1.0 ul

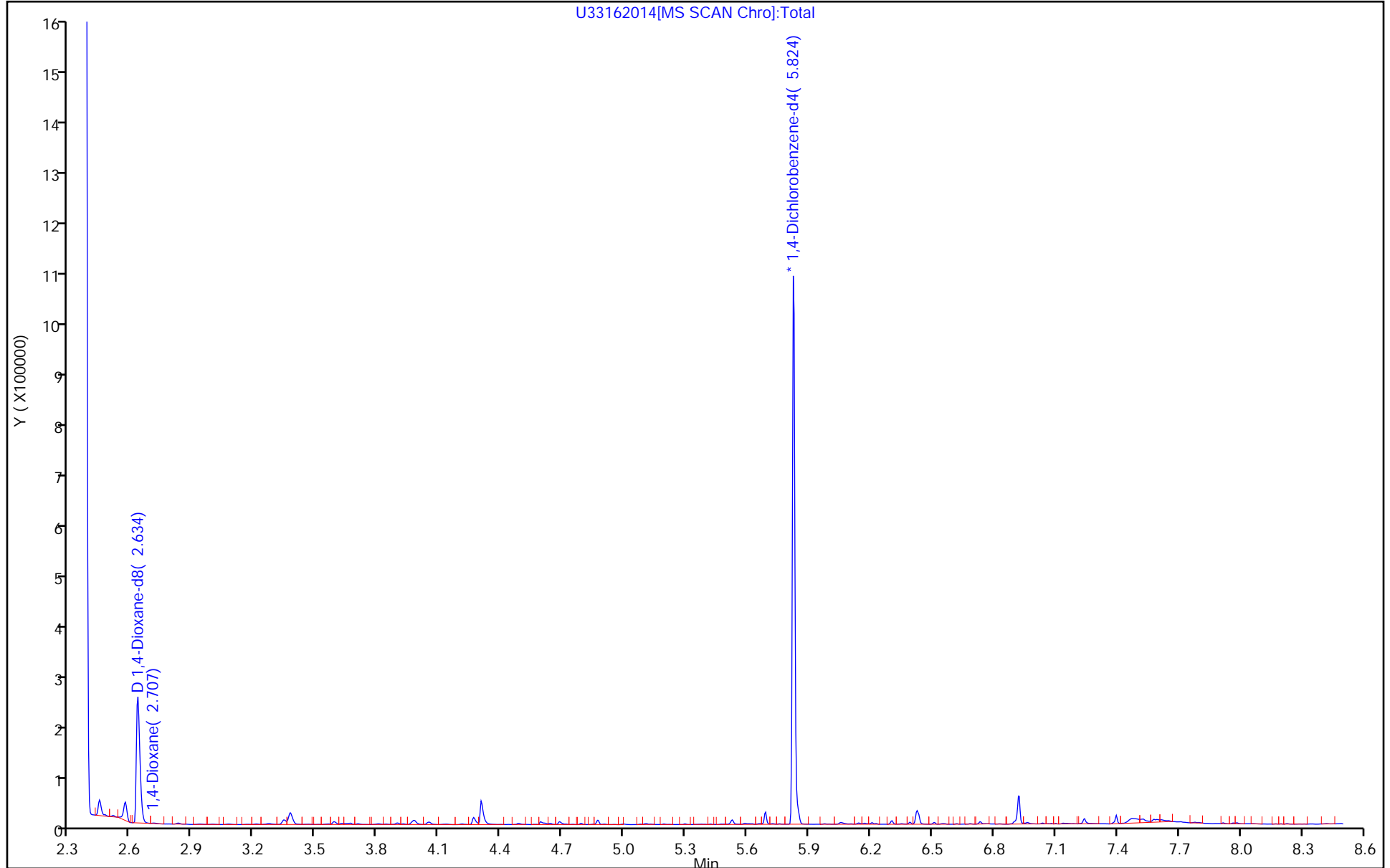
Dil. Factor: 1.0000

ALS Bottle#: 21

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162014.D

Injection Date: 17-May-2021 20:55:30

Instrument ID: HP5973U

Lims ID: 480-184568-C-3-A

Lab Sample ID: 480-184568-3

Client ID: MW-25S

Operator ID: PJQ

ALS Bottle#: 21

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

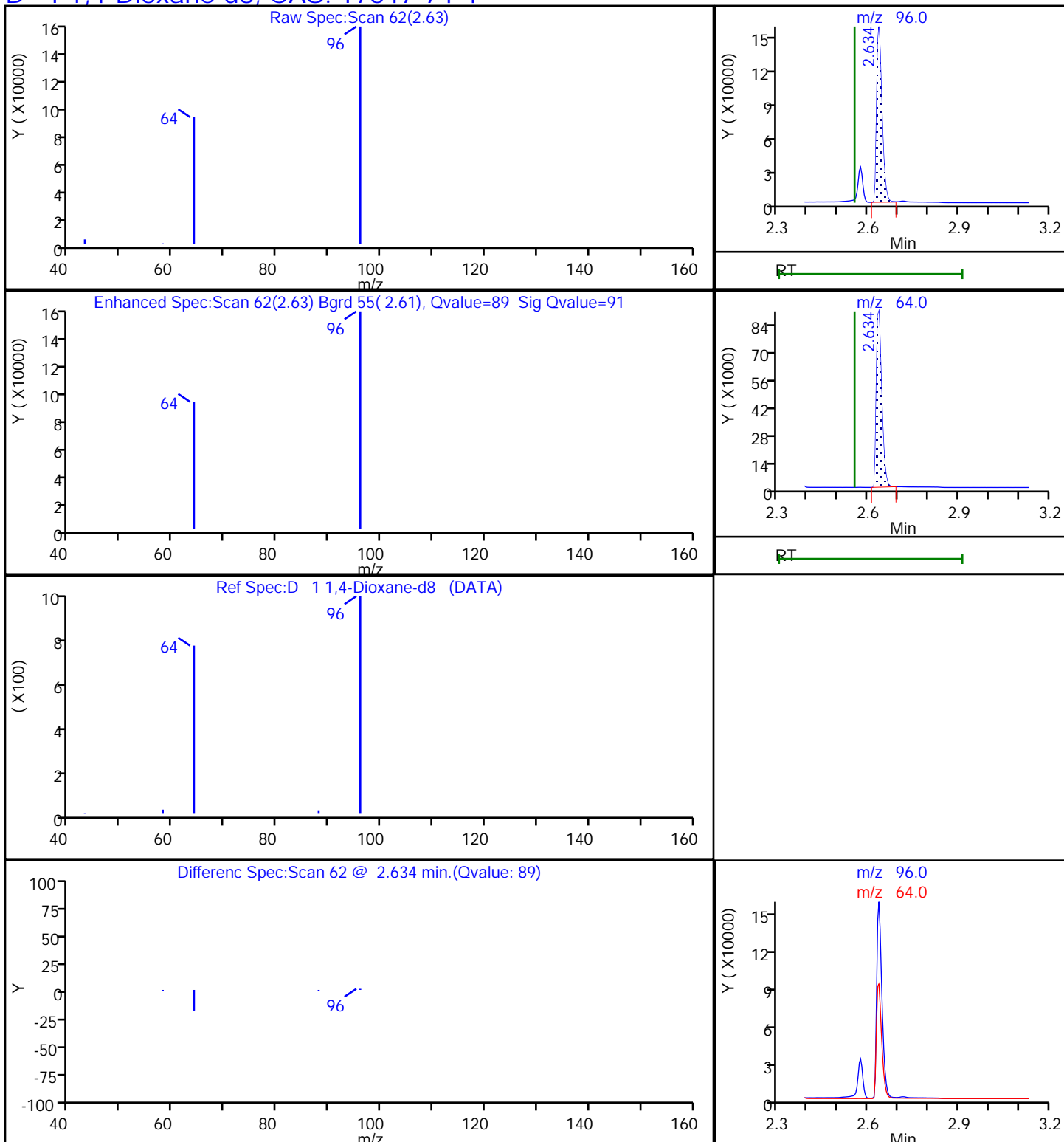
Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Client Sample ID: MW-25S-D Lab Sample ID: 480-184568-4
 Matrix: Water Lab File ID: U33162015.D
 Analysis Method: 8270D SIM ID Date Collected: 05/10/2021 14:30
 Extract. Method: 3510C Date Extracted: 05/14/2021 08:12
 Sample wt/vol: 1050 (mL) Date Analyzed: 05/17/2021 21:19
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 581278 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162015.D
 Lims ID: 480-184568-A-4-A
 Client ID: MW-25S-D
 Sample Type: Client
 Inject. Date: 17-May-2021 21:19:30 ALS Bottle#: 22 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0098640-022
 Operator ID: PJQ Instrument ID: HP5973U
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 18-May-2021 11:35:22 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1673

First Level Reviewer: quirkp Date: 18-May-2021 11:39:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.626	2.552	0.074	89	186681	3.21	32.1	
3 1,4-Dioxane	88	2.666	2.593	0.073	48	800	0.0402		
* 2 1,4-Dichlorobenzene-d4	152	5.824	5.820	0.004	95	578497	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00213 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162015.D

Injection Date: 17-May-2021 21:19:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: 480-184568-A-4-A

Lab Sample ID: 480-184568-4

Worklist Smp#: 22

Client ID: MW-25S-D

Injection Vol: 1.0 ul

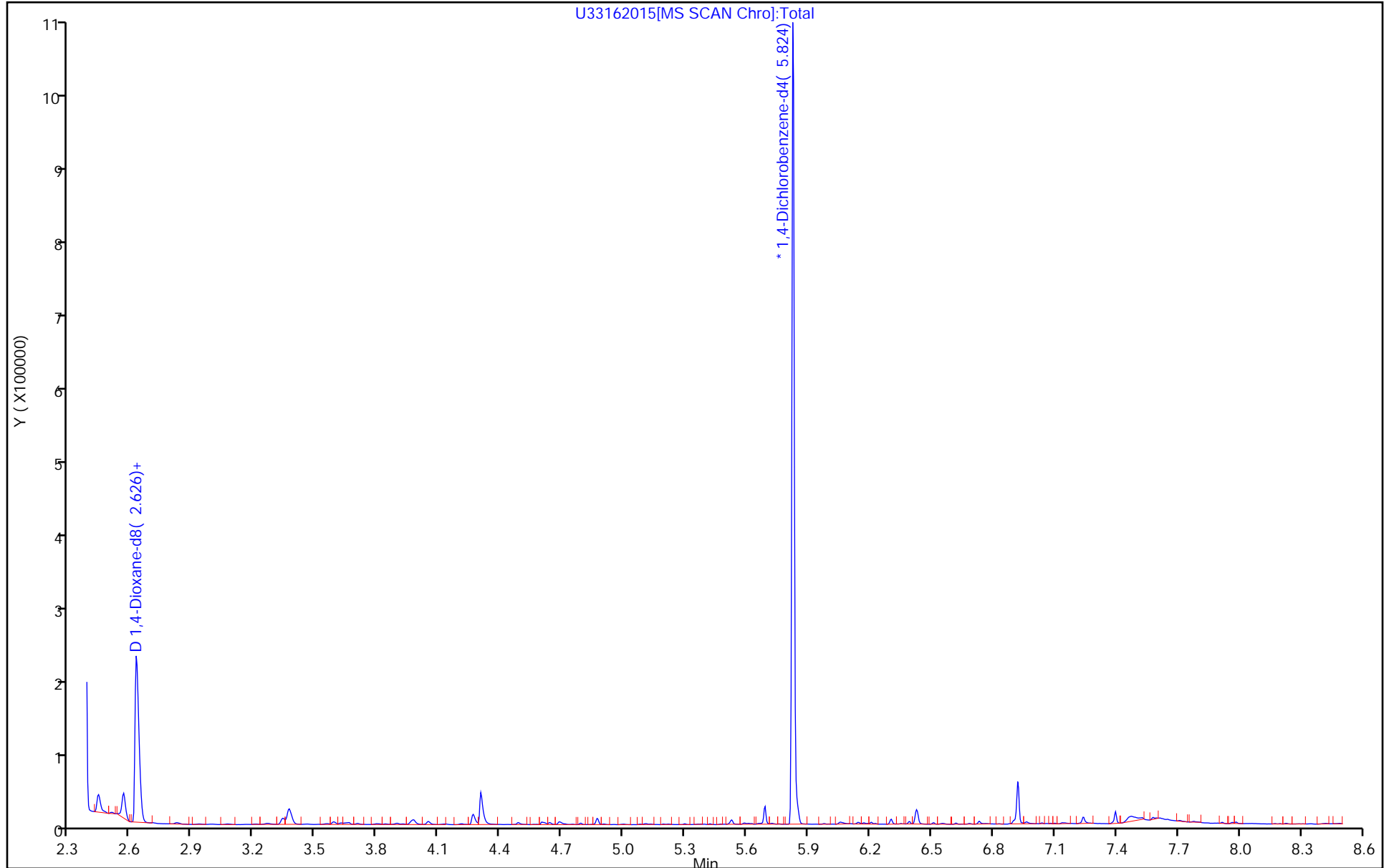
Dil. Factor: 1.0000

ALS Bottle#: 22

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162015.D

Injection Date: 17-May-2021 21:19:30

Instrument ID: HP5973U

Lims ID: 480-184568-A-4-A

Lab Sample ID: 480-184568-4

Client ID: MW-25S-D

Operator ID: PJQ

ALS Bottle#: 22

Worklist Smp#: 22

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

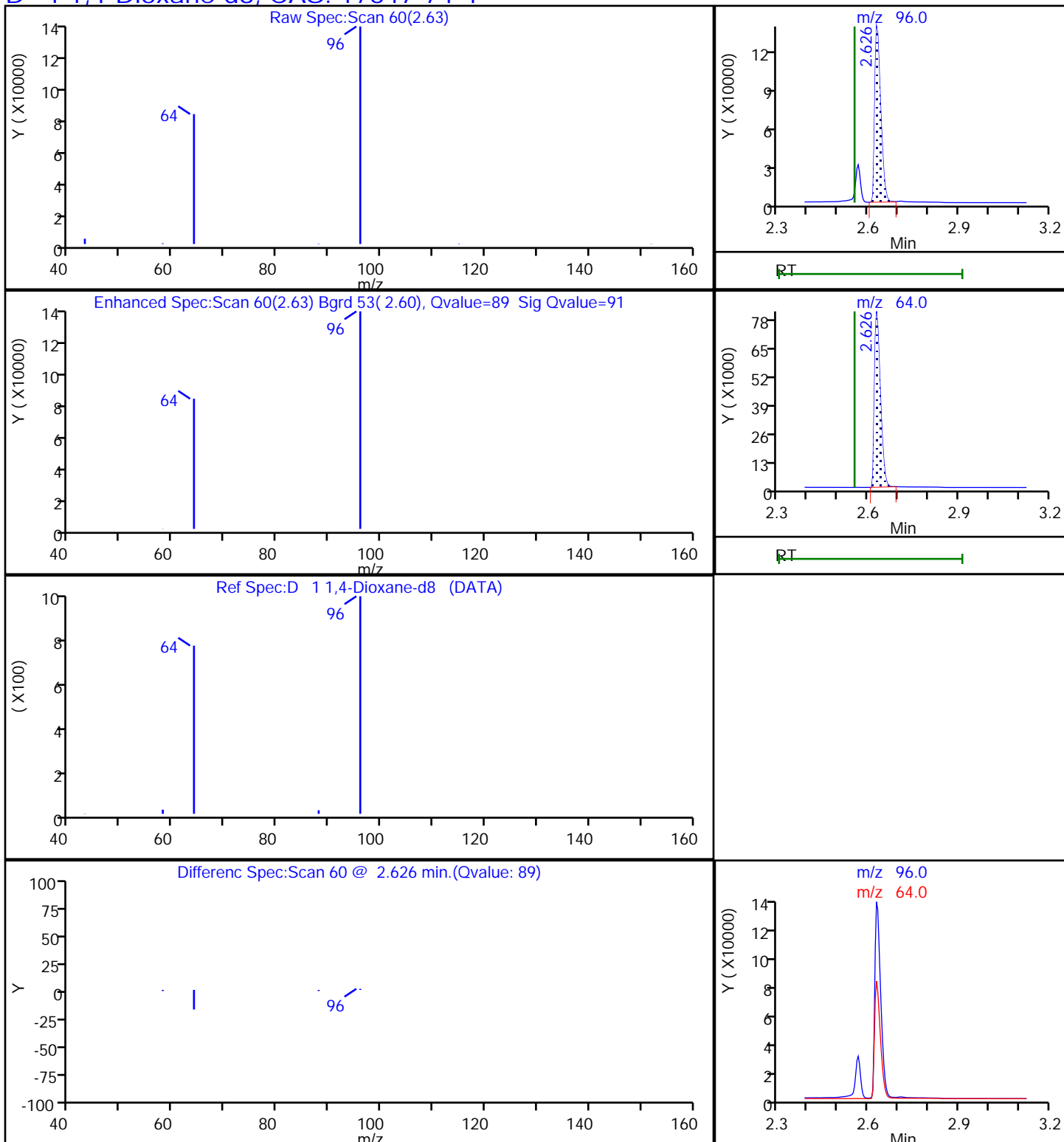
Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1 Analy Batch No.: 580391

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2021 15:26 Calibration End Date: 05/11/2021 17:48 Calibration ID: 41783

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-580391/3	U33161870.D
Level 2	IC 480-580391/4	U33161871.D
Level 3	IC 480-580391/5	U33161872.D
Level 4	ICIS 480-580391/6	U33161873.D
Level 5	IC 480-580391/7	U33161874.D
Level 6	IC 480-580391/8	U33161875.D
Level 7	IC 480-580391/9	U33161876.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,4-Dioxane	1.0658 1.0752	1.0688 1.0740	1.0580	1.0653	1.0599	AveI D	1.066 7			0.0100	0.6		20.0				
1,4-Dioxane-d8	0.4143 0.3981	0.3996 0.3959	0.4012	0.4127	0.3956	Ave	0.402 5			0.0100	1.9		20.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1 Analy Batch No.: 580391

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2021 15:26 Calibration End Date: 05/11/2021 17:48 Calibration ID: 41783

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-580391/3	U33161870.D
Level 2	IC 480-580391/4	U33161871.D
Level 3	IC 480-580391/5	U33161872.D
Level 4	ICIS 480-580391/6	U33161873.D
Level 5	IC 480-580391/7	U33161874.D
Level 6	IC 480-580391/8	U33161875.D
Level 7	IC 480-580391/9	U33161876.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
1,4-Dioxane		AveI D	4312	16632	32572	50314	64404	0.0500	0.200	0.400	0.600	0.800
			81029	98490				1.00	1.20			
1,4-Dioxane-d8	DCBd 4	Ave	40457	155617	307867	472297	607659	0.500	2.00	4.00	6.00	8.00
			753583	917011				10.0	12.0			

Curve Type Legend

Ave = Average ISTD
AveID = Average isotope dilution

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
READBACK PERCENT ERROR

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1 Analy Batch No.: 580391

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2021 15:26 Calibration End Date: 05/11/2021 17:48 Calibration ID: 41783

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-580391/3	U33161870.D
Level 2	IC 480-580391/4	U33161871.D
Level 3	IC 480-580391/5	U33161872.D
Level 4	ICIS 480-580391/6	U33161873.D
Level 5	IC 480-580391/7	U33161874.D
Level 6	IC 480-580391/8	U33161875.D
Level 7	IC 480-580391/9	U33161876.D

ANALYTE	PERCENT ERROR						PERCENT ERROR LIMIT					
	LVL 1 #	LVL 2 #	LVL 3 #	LVL 4 #	LVL 5 #	LVL 6 #	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6
	LVL 7 #						LVL 7					
1,4-Dioxane	-0.1 0.7	0.2	-0.8	-0.1	-0.6	0.8	30 30	30	30	30	30	30
1,4-Dioxane-d8	2.9 -1.6	-0.7	-0.3	2.5	-1.7	-1.1	30 30	30	30	30	30	30

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161870.D
 Lims ID: IC - SIM - .05
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-May-2021 15:26:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 3
 Operator ID: PJQ Instrument ID: HP5973U
 Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:50:13 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

First Level Reviewer: schickr Date: 11-May-2021 18:38:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.569	2.560	0.008	89	40457	0.5000	0.5146	
3 1,4-Dioxane	88	2.609	2.601	0.008	82	4312	0.0500	0.0500	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.828	0.000	95	781291	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00119 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00212 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161870.D

Injection Date: 11-May-2021 15:26:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC - SIM - .05

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

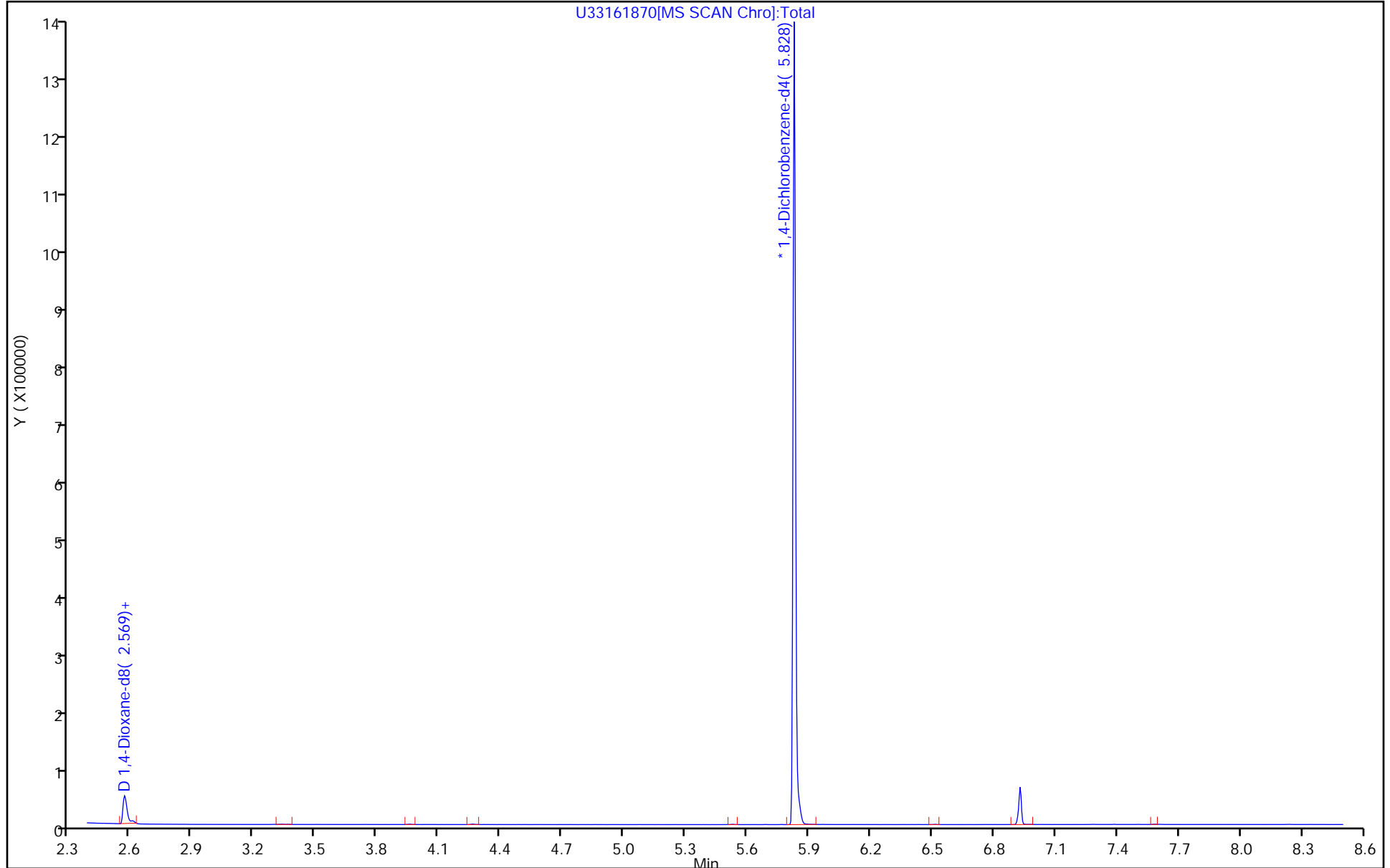
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161871.D
 Lims ID: IC - SIM - .2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-May-2021 15:49:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 4
 Operator ID: PJQ Instrument ID: HP5973U
 Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:50:13 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

First Level Reviewer: schickr Date: 12-May-2021 10:48:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.568	2.560	0.008	88	155617	2.00	1.99	
3 1,4-Dioxane	88	2.609	2.601	0.008	81	16632	0.2000	0.2004	
* 2 1,4-Dichlorobenzene-d4	152	5.832	5.828	0.004	93	778950	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00120 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00212 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161871.D

Injection Date: 11-May-2021 15:49:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC - SIM - .2

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

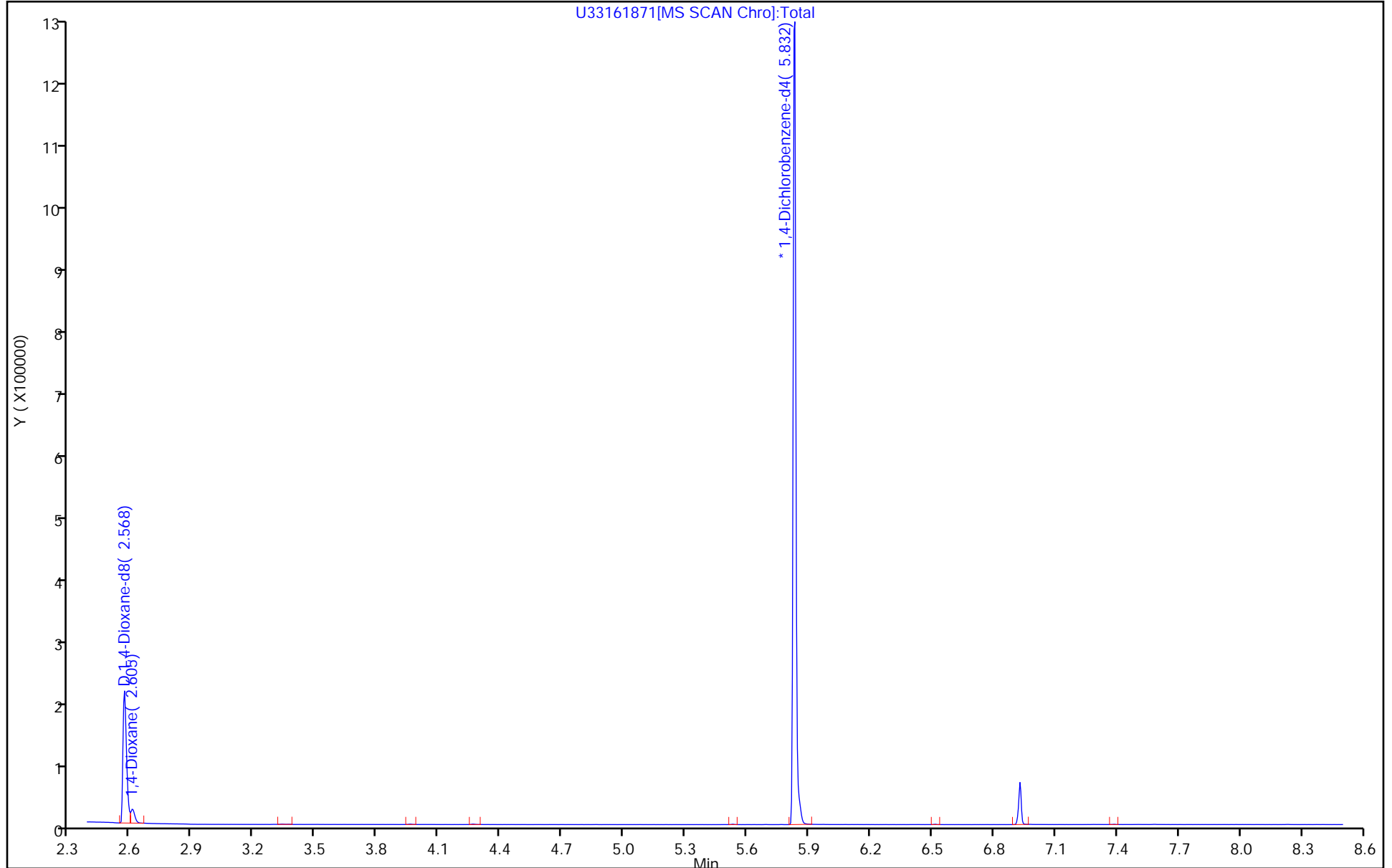
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161872.D
 Lims ID: IC - SIM - .4
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-May-2021 16:13:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 5
 Operator ID: PJQ Instrument ID: HP5973U
 Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:50:14 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

First Level Reviewer: schickr Date: 12-May-2021 10:48:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.569	2.569	0.000	89	307867	4.00	3.99	
3 1,4-Dioxane	88	2.609	2.609	0.000	83	32572	0.4000	0.3967	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.828	0.000	95	767364	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00121 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00212 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161872.D

Injection Date: 11-May-2021 16:13:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC - SIM - .4

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

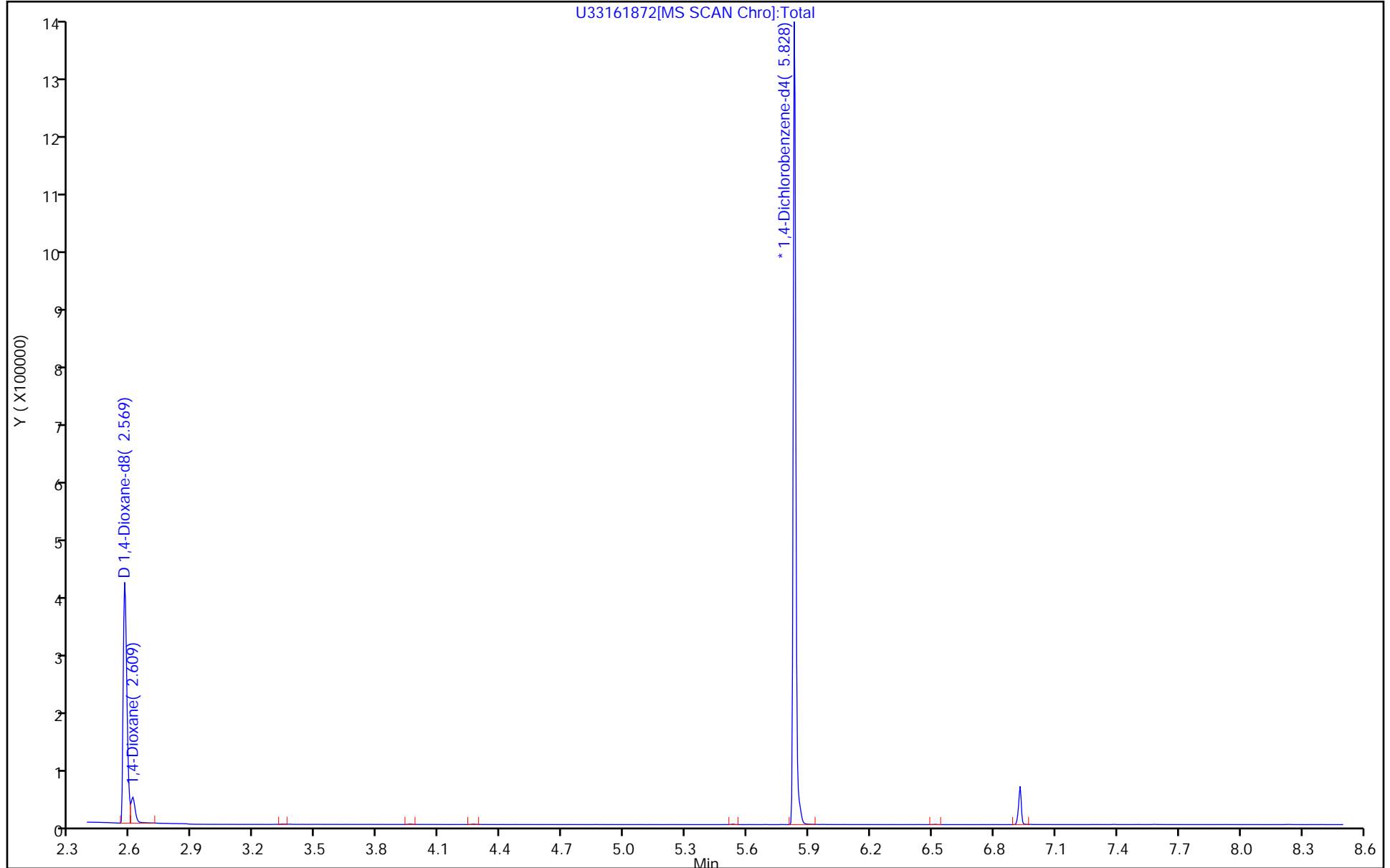
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161873.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 11-May-2021 16:37:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 6
 Operator ID: PJQ Instrument ID: HP5973U
 Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:50:14 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

First Level Reviewer: schickr Date: 12-May-2021 10:48:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.560	2.560	0.000	90	472297	6.00	6.15	
3 1,4-Dioxane	88	2.601	2.601	0.000	83	50314	0.6000	0.5992	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.828	0.000	95	762962	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00122 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00212 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161873.D

Injection Date: 11-May-2021 16:37:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: ICIS

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

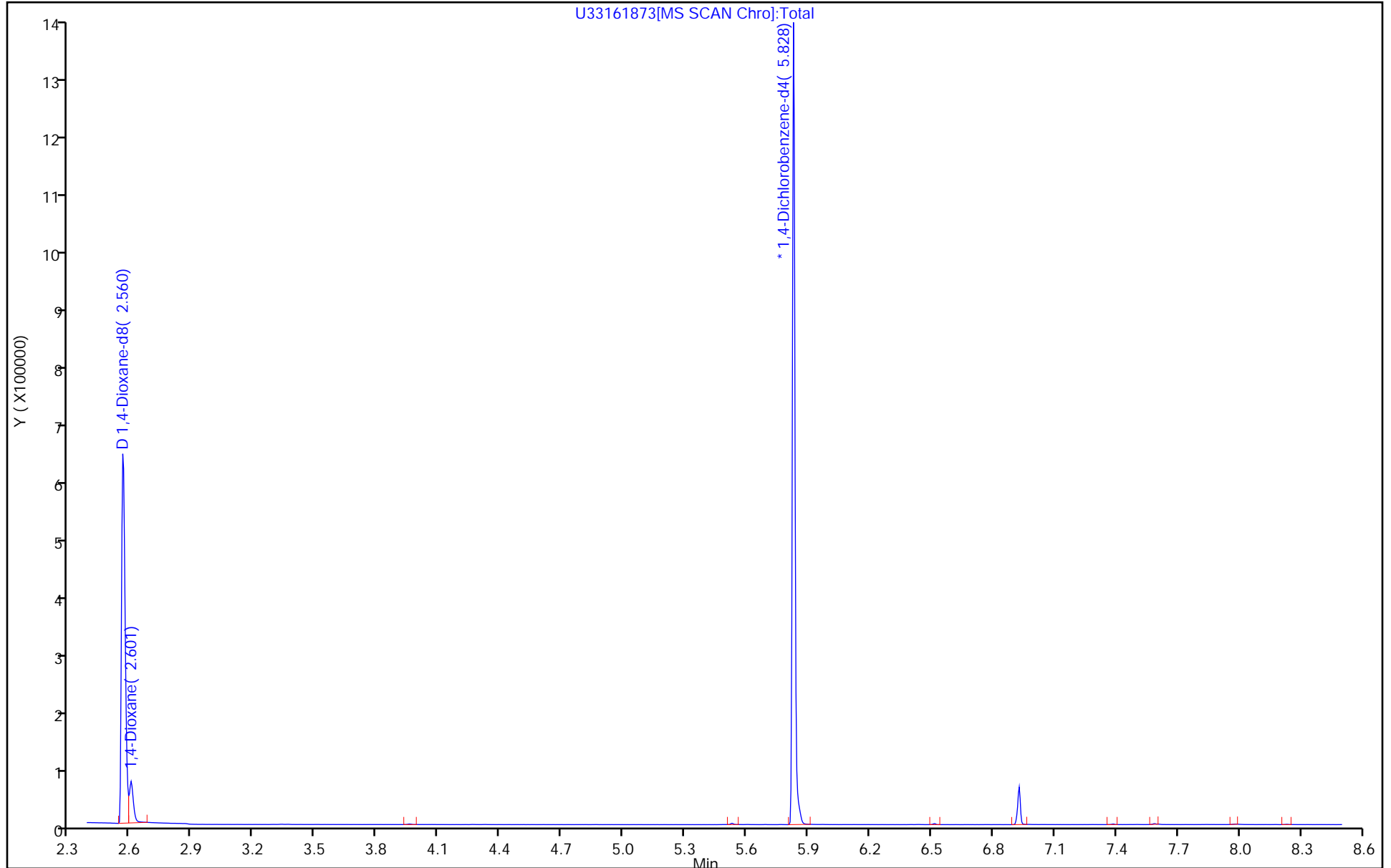
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161874.D
 Lims ID: IC - SIM - .8
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-May-2021 17:01:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 7
 Operator ID: PJQ Instrument ID: HP5973U
 Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:50:15 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

First Level Reviewer: schickr Date: 12-May-2021 10:48:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.565	2.560	0.005	90	607659	8.00	7.86	
3 1,4-Dioxane	88	2.605	2.601	0.004	83	64404	0.8000	0.7949	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.828	0.000	95	768029	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00123 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00212 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161874.D

Injection Date: 11-May-2021 17:01:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC - SIM - .8

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

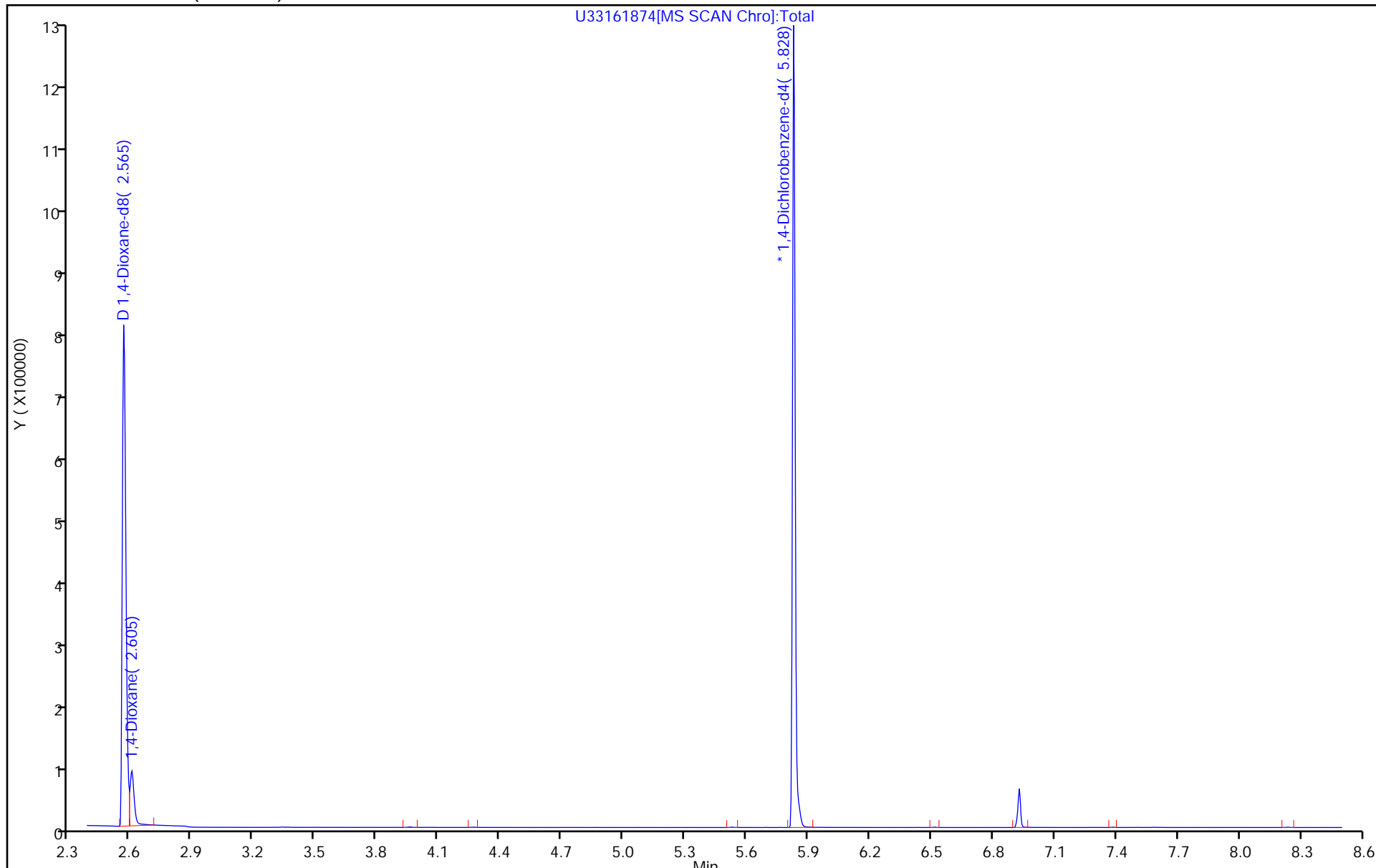
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161875.D
 Lims ID: IC - SIM - 1.0
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-May-2021 17:24:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 8
 Operator ID: PJQ Instrument ID: HP5973U
 Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:50:15 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

First Level Reviewer: schickr Date: 12-May-2021 10:48:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.560	2.560	0.000	92	753583	10.0	9.89	
3 1,4-Dioxane	88	2.601	2.601	0.000	83	81029	1.00	1.01	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.828	0.000	95	757153	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00124 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00212 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161875.D

Injection Date: 11-May-2021 17:24:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC - SIM - 1.0

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

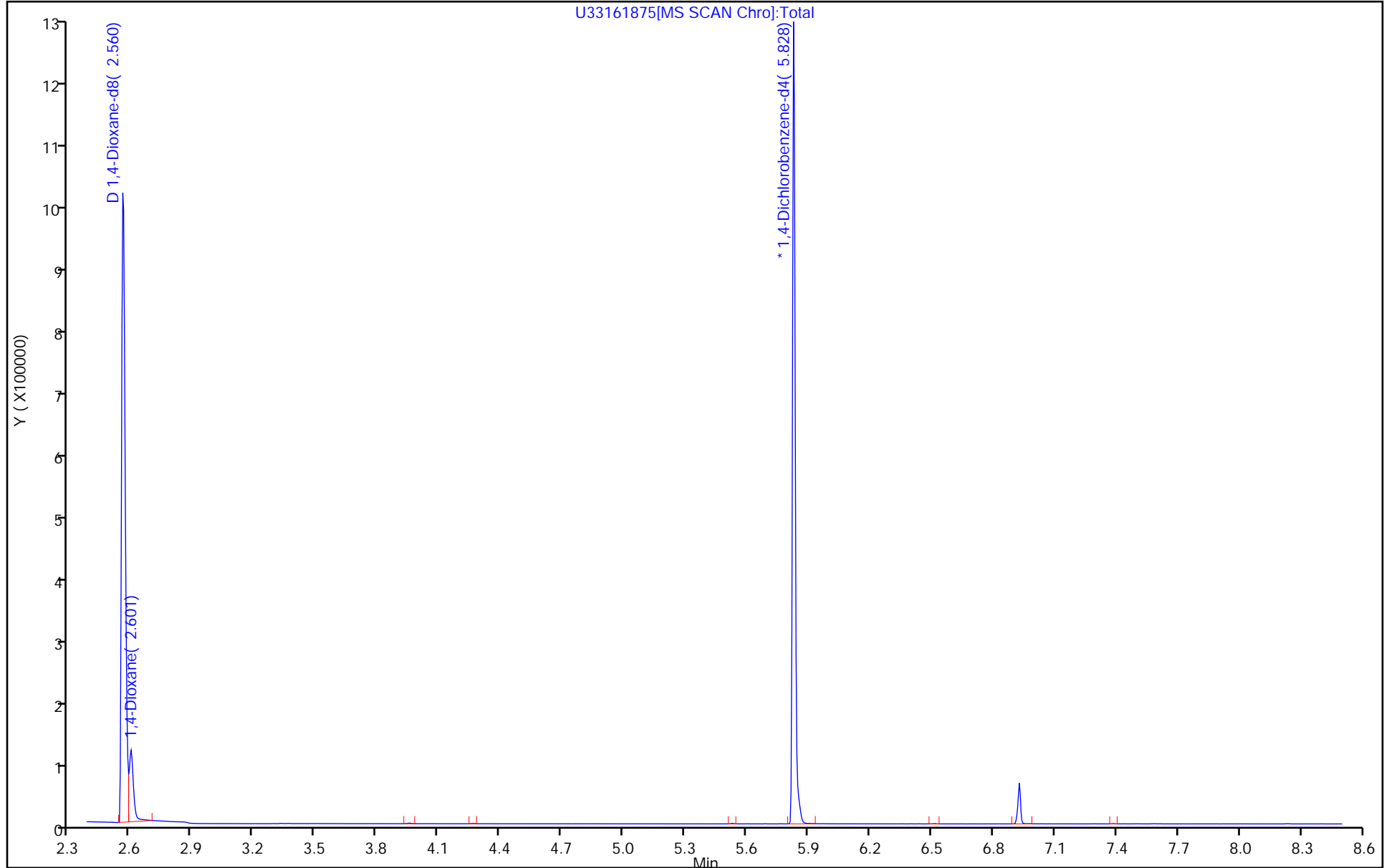
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Lims ID: IC - SIM - 1.2
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-May-2021 17:48:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 9
 Operator ID: PJQ Instrument ID: HP5973U
 Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:50:16 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

First Level Reviewer: schickr Date: 12-May-2021 10:48:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.564	2.560	0.004	88	917011	12.0	11.8	
3 1,4-Dioxane	88	2.601	2.601	0.000	83	98490	1.20	1.21	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.828	0.000	95	772132	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00125 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00212 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D

Injection Date: 11-May-2021 17:48:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: IC - SIM - 1.2

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

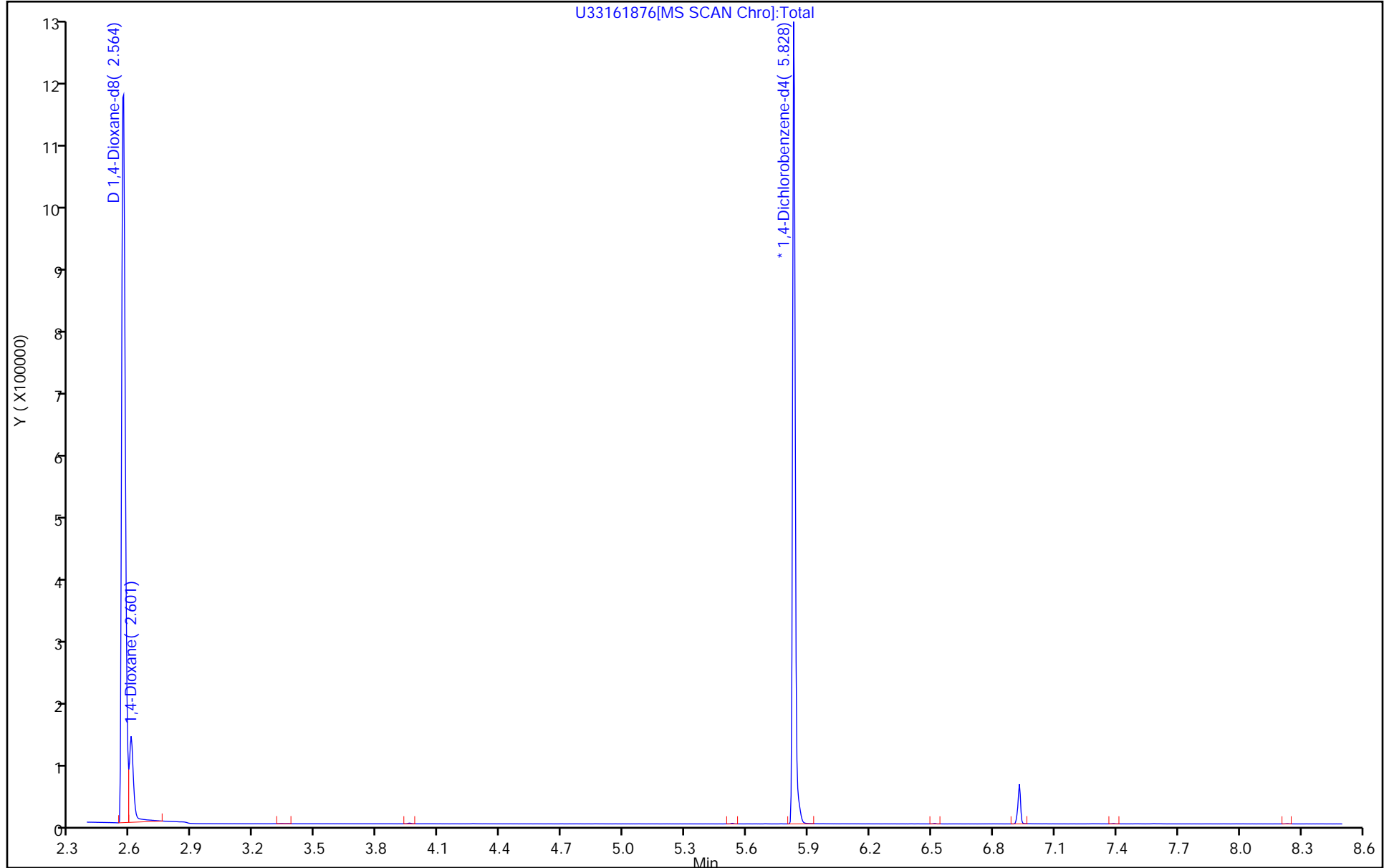
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Calibration

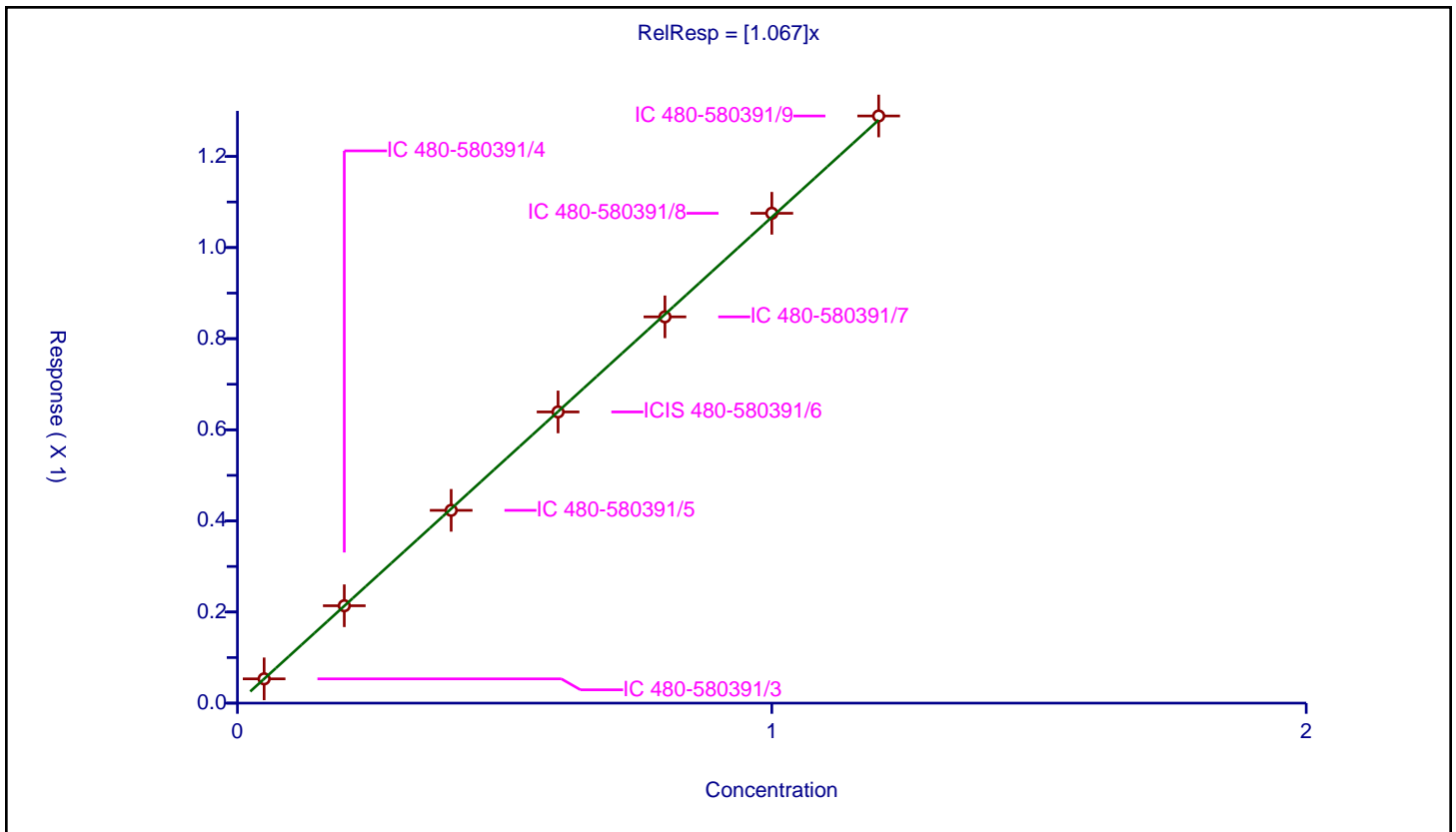
/ 1,4-Dioxane

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.067

Error Coefficients	
Standard Error:	63600
Relative Standard Error:	0.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 480-580391/3	0.05	0.053291	0.5	40457.0	1.065823	Y
2	IC 480-580391/4	0.2	0.213756	2.0	155617.0	1.068778	Y
3	IC 480-580391/5	0.4	0.423196	4.0	307867.0	1.057989	Y
4	ICIS 480-580391/6	0.6	0.639183	6.0	472297.0	1.065304	Y
5	IC 480-580391/7	0.8	0.847897	8.0	607659.0	1.059871	Y
6	IC 480-580391/8	1.0	1.07525	10.0	753583.0	1.07525	Y
7	IC 480-580391/9	1.2	1.28884	12.0	917011.0	1.074033	Y



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Lab Sample ID: ICV 480-580391/10 Calibration Date: 05/11/2021 18:12
 Instrument ID: HP5973U Calib Start Date: 05/11/2021 15:26
 GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 05/11/2021 17:48
 Lab File ID: U33161877.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.067	1.084	0.0100	610	600	1.6	20.0
1,4-Dioxane-d8	Ave	0.4025	0.4096	0.0100	6110	6000	1.8	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161877.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-May-2021 18:12:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 10
 Operator ID: PJO Instrument ID: HP5973U
 Sublist:

Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:51:11 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.565	2.560	0.004	89	570768	6.00	6.11	
3 1,4-Dioxane	88	2.601	2.601	0.000	84	61881	0.6000	0.6098	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.828	0.000	94	928938	4.00	4.00	

Reagents:

MB_SIMSS_WRK_00016 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00212 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161877.D

Injection Date: 11-May-2021 18:12:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: ICV

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

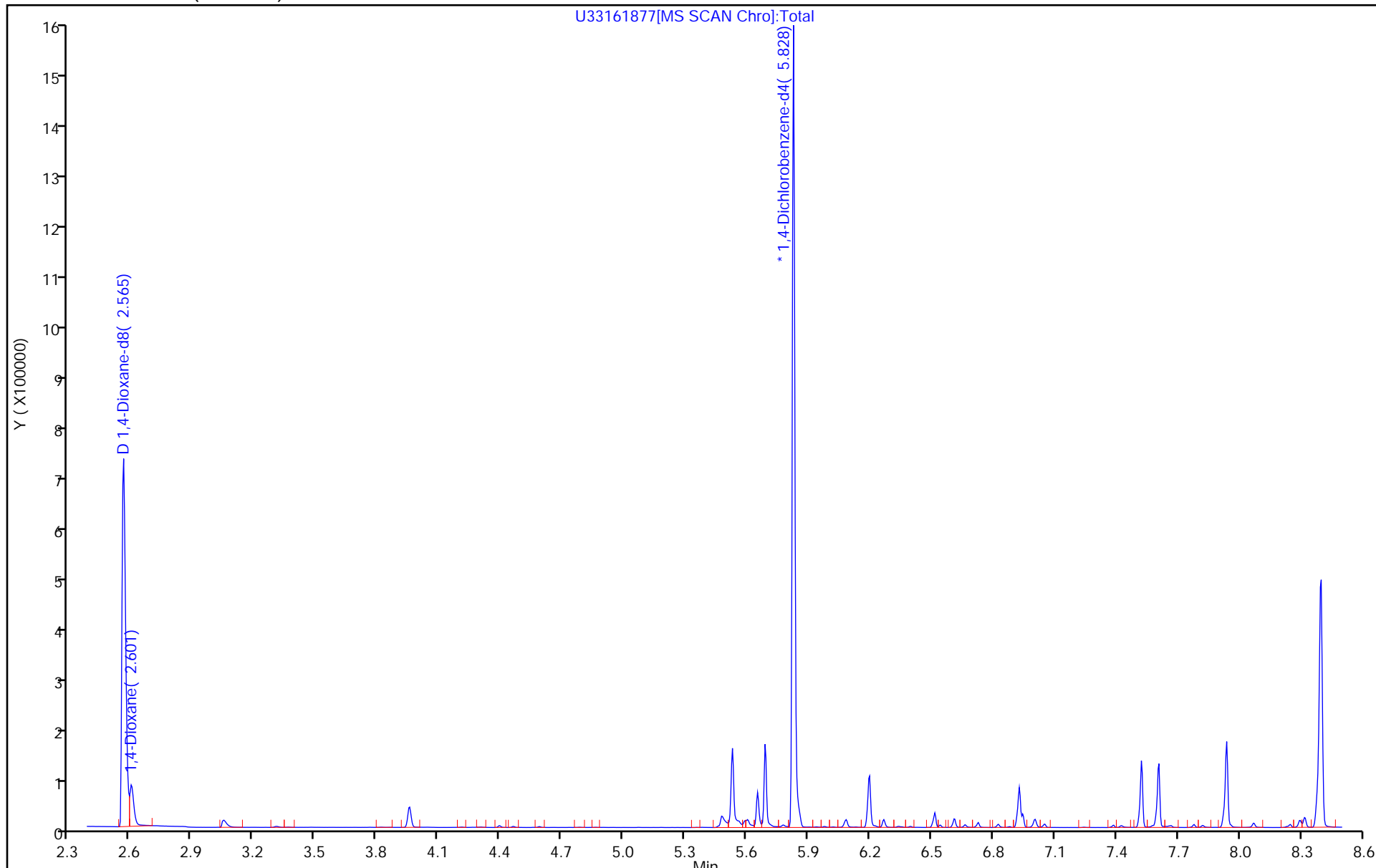
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-581278/3 Calibration Date: 05/17/2021 13:52
 Instrument ID: HP5973U Calib Start Date: 05/11/2021 15:26
 GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm) Calib End Date: 05/11/2021 17:48
 Lab File ID: U33161996.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	1.067	1.068	0.0100	601	600	0.1	20.0
1,4-Dioxane-d8	Ave	0.4025	0.4167	0.0100	6210	6000	3.5	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161996.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 17-May-2021 13:52:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0098640-003
 Operator ID: PJO Instrument ID: HP5973U
 Sublist: chrom-1,4_Dx_SIM_HP5973U*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-May-2021 14:12:40 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1663

First Level Reviewer: quirkp Date: 17-May-2021 14:12:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.552	2.552	0.000	90	390915	6.00	6.21	
3 1,4-Dioxane	88	2.593	2.593	0.000	83	41751	0.6000	0.6007	
* 2 1,4-Dichlorobenzene-d4	152	5.820	5.820	0.000	95	625389	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00122 Amount Added: 1.00 Units: mL
 MB_LLIS_WRK_00213 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 17-May-2021 14:12:40

Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161996.D

Injection Date: 17-May-2021 13:52:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

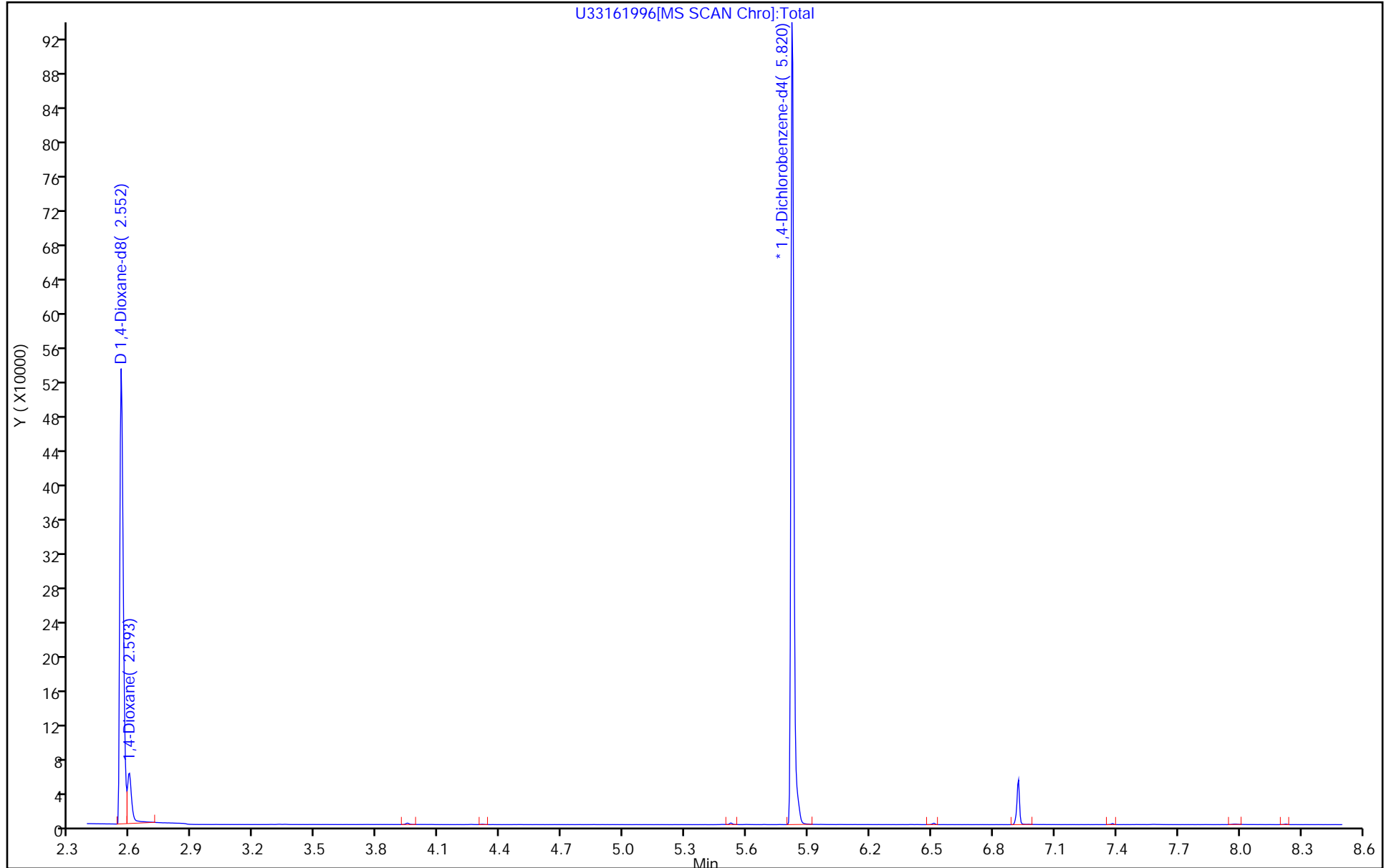
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161869.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 11-May-2021 14:19:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 2
 Operator ID: PJQ Instrument ID: HP5973U
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 12-May-2021 10:51:11 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: Deconvolution ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1643

First Level Reviewer: schickr Date: 11-May-2021 15:22:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	10.898	10.898	0.000	0	9058			NR
5 4,4'-DDD	235	11.192	11.192	0.000	83	152756			NR
6 4,4'-DDT	235	11.464	11.464	0.000	99	1943475	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

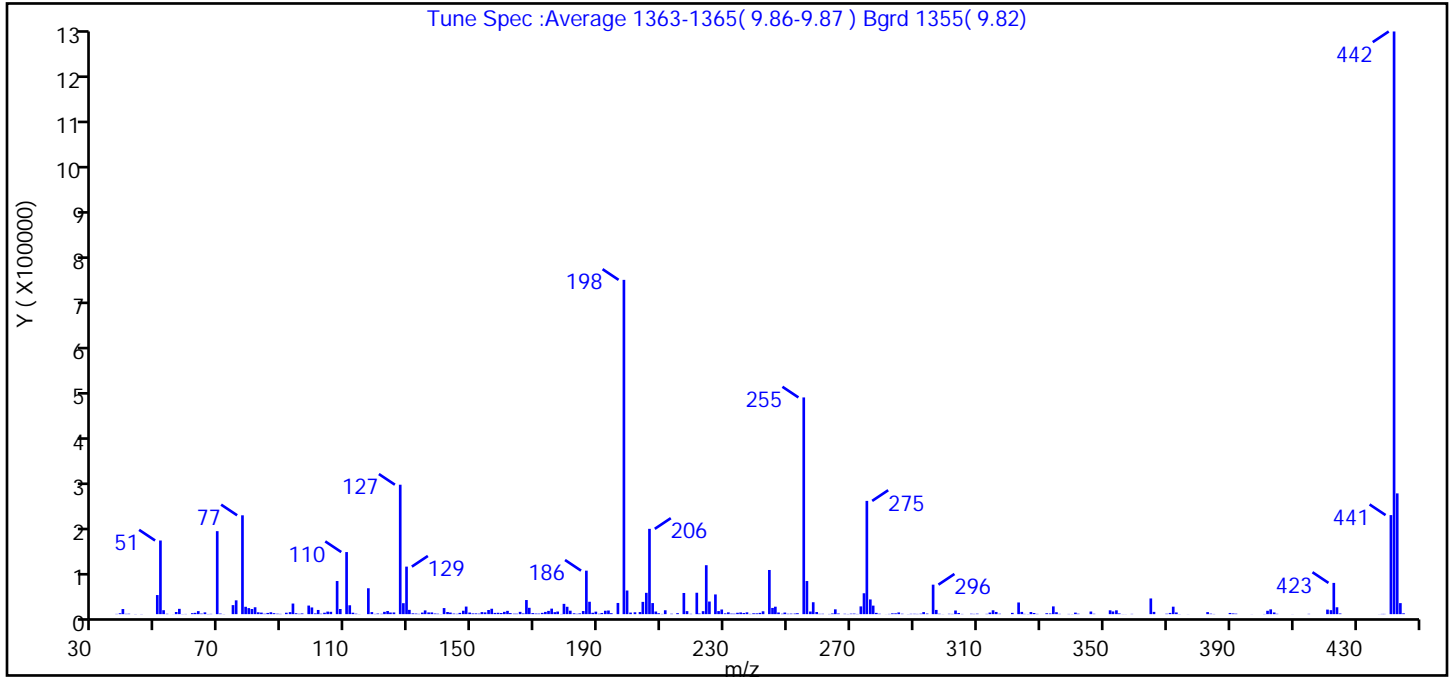
Reagents:

MB_DFTPP_WRK_00389 Amount Added: 1.00 Units: mL

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161869.D
 Injection Date: 11-May-2021 14:19:30 Instrument ID: HP5973U
 Lims ID: DFTPP
 Client ID:
 Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
 Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (57.4)
51	10-80% of the base peak	22.0
68	<2% of mass 69	0.0 (0.0)
69	Present	24.8
70	<2% of mass 69	0.2 (0.7)
127	10-80% of the base peak	38.7
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.1
275	10-60% of the base peak	33.9
365	>1% of mass 198	4.7
441	present but <24% of mass 442	29.6 (17.0)
442	base peak, or >50% of 198	174.3
443	15-24% of mass 442	36.1 (20.7)

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161869.D\1,4_Dx_SIM_HP5973U.rsl\spe
 Injection Date: 11-May-2021 14:19:30
 Spectrum: Tune Spec :Average 1363-1365(9.86-9.87) Bgrd 1355(9.82)
 Base Peak: 442.10
 Minimum % Base Peak: 0
 Number of Points: 303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	534	132.00	1246	211.00	8303	299.00	190
38.00	1931	133.00	621	213.00	882	301.00	768
39.00	10977	134.00	3334	215.00	2136	302.00	548
40.00	723	135.00	8022	217.00	45464	303.00	7812
41.00	907	136.00	3690	218.00	6481	304.00	2531
43.00	322	137.00	3739	219.00	700	305.00	457
45.00	322	138.00	1380	221.00	45976	308.00	864
50.00	41008	139.00	957	222.00	1259	309.00	554
51.00	158208	140.00	246	223.00	6397	310.00	1016
52.00	8460	141.00	13050	224.00	105152	313.00	621
53.00	748	142.00	4588	225.00	27096	314.00	3402
55.00	132	143.00	3418	227.00	42344	315.00	8323
56.00	4594	144.00	1268	228.00	6573	316.00	4713
57.00	11383	145.00	701	229.00	9999	317.00	889
58.00	282	146.00	2737	230.00	1656	321.00	2732
59.00	433	147.00	7310	231.00	3870	323.00	25080
61.00	2114	148.00	16266	232.00	1134	324.00	4822
62.00	2787	149.00	3421	233.00	967	325.00	608
63.00	6478	150.00	1567	234.00	2946	326.00	298
64.00	1163	151.00	1619	235.00	3647	327.00	4527
65.00	3792	152.00	1073	236.00	2496	328.00	2462
66.00	359	153.00	4426	237.00	3875	329.00	572
67.00	610	154.00	3752	238.00	571	332.00	1953
69.00	178304	155.00	8866	239.00	1854	333.00	1505
70.00	1161	156.00	11607	240.00	1704	334.00	16656
71.00	251	157.00	2680	241.00	2766	335.00	4131
74.00	19408	158.00	2953	242.00	6134	336.00	623
75.00	29664	159.00	2457	244.00	94880	339.00	477
77.00	212352	160.00	4919	245.00	13345	340.00	230
78.00	15820	161.00	7055	246.00	15979	341.00	3263
79.00	12961	162.00	2261	247.00	3550	342.00	965
80.00	11034	163.00	996	248.00	855	346.00	5614
81.00	14787	164.00	959	249.00	3415	347.00	838

Data File:

\\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161869.D\1_4_Dx_SIM_HP5973U.rsltspe

Injection Date:

11-May-2021 14:19:30

Spectrum:

Tune Spec :Average 1363-1365(9.86-9.87) Bgrd 1355(9.82)

Base Peak:

442.10

Minimum % Base Peak: 0

Number of Points:

303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	3969	165.00	4894	250.00	827	352.00	8231
83.00	3322	166.00	1511	251.00	1146	353.00	5800
84.00	891	167.00	30304	252.00	1243	354.00	8198
85.00	2611	168.00	13634	253.00	2024	355.00	1578
86.00	4069	169.00	2241	255.00	465600	356.00	207
87.00	2080	170.00	1282	256.00	71144	357.00	178
88.00	979	171.00	1140	257.00	5638	359.00	584
89.00	566	172.00	2783	258.00	25592	365.00	33728
91.00	3029	173.00	4795	259.00	4619	366.00	4871
92.00	4287	174.00	7004	260.00	705	370.00	922
93.00	22768	175.00	11869	261.00	800	371.00	2611
94.00	1926	176.00	4237	263.00	435	372.00	16012
95.00	755	177.00	5603	264.00	1430	373.00	3631
96.00	1528	178.00	428	265.00	10356	374.00	283
98.00	18416	179.00	22112	266.00	1353	377.00	167
99.00	14383	180.00	15834	268.00	804	383.00	4394
100.00	1555	181.00	7391	269.00	381	384.00	1032
101.00	8983	182.00	1813	270.00	1032	385.00	398
102.00	896	183.00	768	271.00	1184	390.00	2534
103.00	3043	184.00	1613	272.00	429	391.00	1535
104.00	5462	185.00	6662	273.00	16672	392.00	1040
105.00	4999	186.00	93424	274.00	44880	397.00	177
107.00	71152	187.00	26632	275.00	243328	401.00	375
108.00	11043	188.00	2943	276.00	31600	402.00	7227
110.00	133376	189.00	5356	277.00	18320	403.00	10317
111.00	19064	190.00	828	278.00	2738	404.00	3608
112.00	3070	191.00	2534	279.00	852	405.00	719
113.00	983	192.00	7296	281.00	129	410.00	175
114.00	230	193.00	7830	282.00	516	415.00	644
117.00	55624	194.00	2007	283.00	1763	421.00	9768
118.00	4420	196.00	24024	284.00	1752	422.00	8536
119.00	530	198.00	718208	285.00	3678	423.00	67128
120.00	1319	199.00	50784	286.00	851	424.00	14752
121.00	720	200.00	3370	288.00	246	425.00	1427

Report Date: 12-May-2021 10:51:12

Chrom Revision: 2.3 08-Apr-2021 17:17:48

Data File:

\\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161869.D\1,4_Dx_SIM_HP5973U.rslt\spe

Injection Date:

11-May-2021 14:19:30

Spectrum:

Tune Spec :Average 1363-1365(9.86-9.87) Bgrd 1355(9.82)

Base Peak:

442.10

Minimum % Base Peak: 0

Number of Points:

303

m/z	Y	m/z	Y	m/z	Y	m/z	Y
122.00	4944	202.00	4007	289.00	732	437.00	175
123.00	6702	203.00	4501	290.00	783	438.00	500
124.00	3531	204.00	26368	291.00	542	439.00	513
125.00	3648	205.00	45800	292.00	997	441.00	212800
127.00	278080	206.00	183296	293.00	4410	442.00	1251840
128.00	23536	207.00	23768	294.00	1253	443.00	259456
129.00	102104	208.00	5649	296.00	63368	444.00	23688
130.00	9193	209.00	1939	297.00	9060	445.00	1761
131.00	1708	210.00	506	298.00	826		

Report Date: 12-May-2021 10:51:12

Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161869.D

Injection Date: 11-May-2021 14:19:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: DFTPP

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

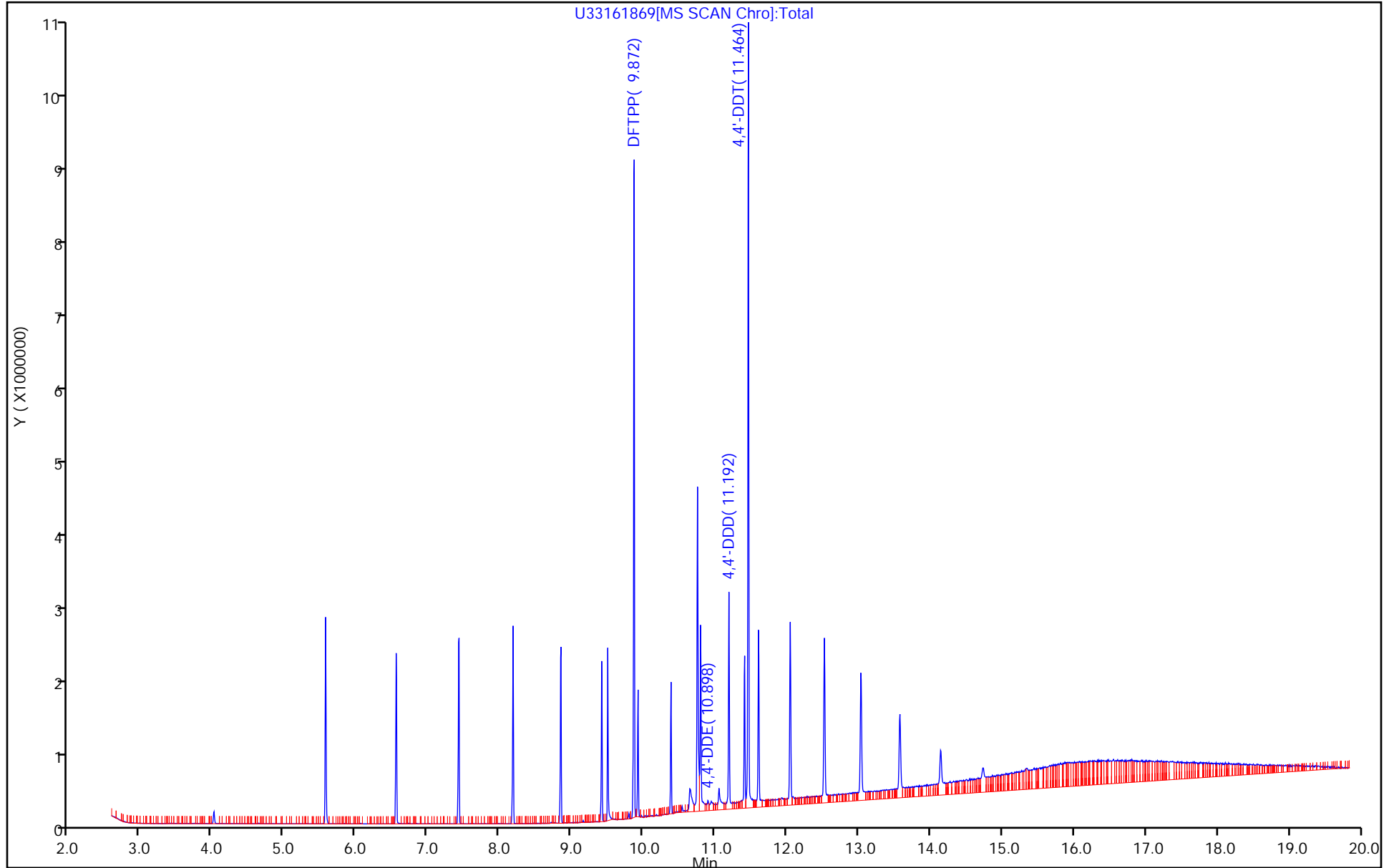
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161869.D

Injection Date: 11-May-2021 14:19:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

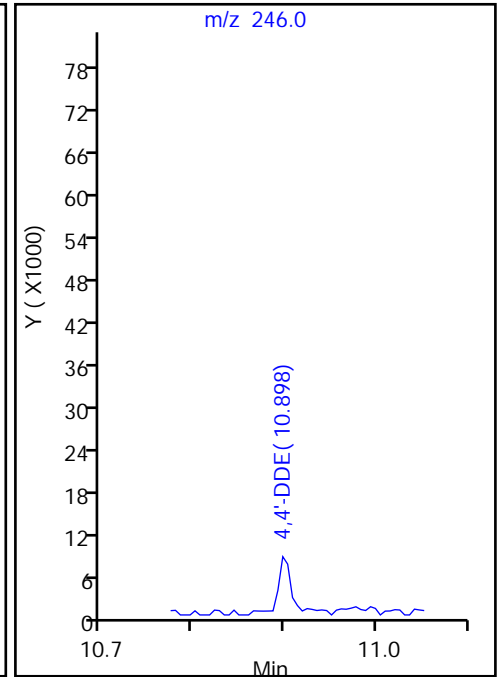
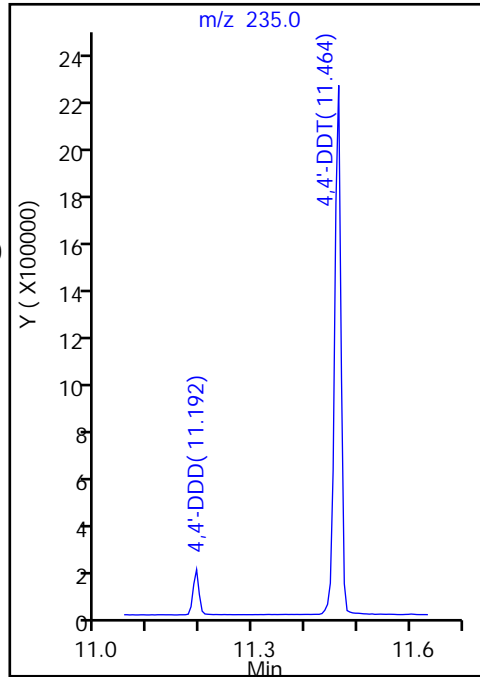
6 4,4'-DDT, Area = 1943475

5 4,4'-DDD, Area = 152756

7 4,4'-DDE, Area = 9058

%Breakdown: 7.69%, <= 20.00%

Passed



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161995.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 17-May-2021 13:25:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0098640-002
 Operator ID: PJQ Instrument ID: HP5973U
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-May-2021 13:53:13 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: Deconvolution ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1663

First Level Reviewer: quirkp Date: 17-May-2021 13:53:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	10.892	10.892	0.000	0	26408			NR
5 4,4'-DDD	235	11.181	11.181	0.000	96	176710			NR
6 4,4'-DDT	235	11.453	11.453	0.000	98	1472086	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

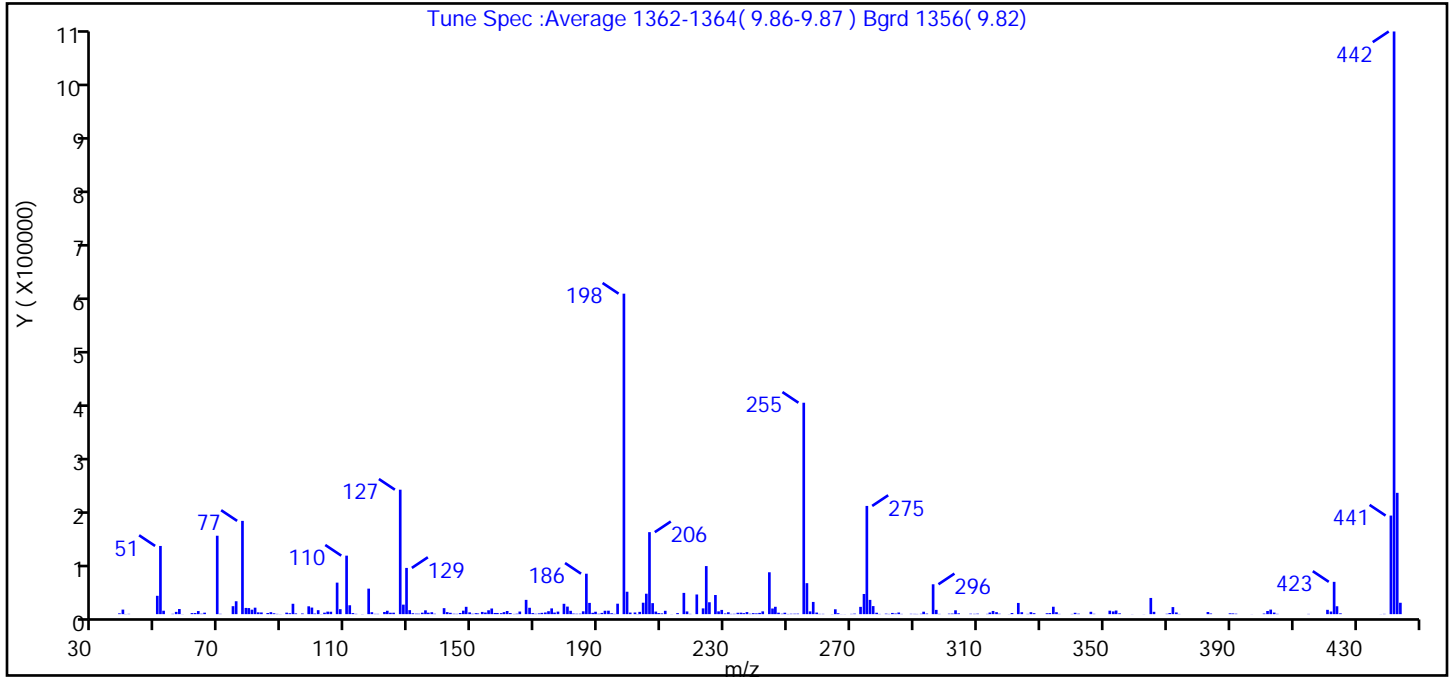
Reagents:

MB_DFTPP_WRK_00391 Amount Added: 1.00 Units: mL

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161995.D
 Injection Date: 17-May-2021 13:25:30 Instrument ID: HP5973U
 Lims ID: DFTPP
 Client ID:
 Operator ID: PJQ ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Method: 1,4_Dx_SIM_HP5973U Limit Group: MB - 8270D SIM ID ICAL
 Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (55.0)
51	10-80% of the base peak	21.3
68	<2% of mass 69	0.0 (0.0)
69	Present	24.5
70	<2% of mass 69	0.1 (0.4)
127	10-80% of the base peak	38.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.0
275	10-60% of the base peak	33.8
365	>1% of mass 198	5.1
441	present but <24% of mass 442	30.8 (16.9)
442	base peak, or >50% of 198	181.8
443	15-24% of mass 442	37.9 (20.8)

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161995.D\1,4_Dx_SIM_HP5973U.rsltspe
 Injection Date: 17-May-2021 13:25:30
 Spectrum: Tune Spec :Average 1362-1364(9.86-9.87) Bgrd 1356(9.82)
 Base Peak: 442.10
 Minimum % Base Peak: 0
 Number of Points: 276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	1515	136.00	2732	210.00	1457	294.00	1066
39.00	8542	137.00	3610	211.00	6282	296.00	56144
40.00	277	138.00	781	213.00	173	297.00	7999
41.00	563	141.00	11254	215.00	1999	298.00	479
50.00	34480	142.00	3792	217.00	39952	301.00	901
51.00	128184	143.00	2539	218.00	5074	302.00	1038
52.00	6413	144.00	764	219.00	527	303.00	7227
55.00	627	145.00	588	221.00	36952	304.00	1508
56.00	4271	146.00	2126	223.00	10826	308.00	808
57.00	9611	147.00	6522	224.00	90344	309.00	587
58.00	199	148.00	13777	225.00	22352	310.00	936
61.00	2002	149.00	3371	227.00	35960	313.00	529
62.00	2059	150.00	743	228.00	5225	314.00	3027
63.00	5802	151.00	1803	229.00	7945	315.00	6001
64.00	788	152.00	1305	230.00	1267	316.00	3740
65.00	2757	153.00	4166	231.00	3536	317.00	802
69.00	147392	154.00	3004	232.00	501	320.00	186
70.00	605	155.00	7281	233.00	648	321.00	2085
74.00	14972	156.00	10628	234.00	2605	323.00	21064
75.00	24248	157.00	2224	235.00	2767	324.00	3614
77.00	175296	158.00	2208	236.00	1888	326.00	481
78.00	11690	159.00	1859	237.00	3871	327.00	3665
79.00	11411	160.00	3768	238.00	763	328.00	1809
80.00	8379	161.00	5899	239.00	1860	332.00	1723
81.00	12160	162.00	2064	240.00	1457	333.00	2026
82.00	3372	163.00	405	241.00	2363	334.00	13906
83.00	3193	164.00	831	242.00	5213	335.00	3653
85.00	2103	165.00	4889	244.00	78712	336.00	476
86.00	3695	167.00	26824	245.00	10588	340.00	393
87.00	1629	168.00	11976	246.00	13832	341.00	2543
88.00	501	169.00	1924	247.00	2722	342.00	901
89.00	185	170.00	698	248.00	770	346.00	4434
91.00	2801	171.00	1382	249.00	2655	347.00	660

Data File:

\\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161995.D\1_4_Dx_SIM_HP5973U.rsltspe

Injection Date:

17-May-2021 13:25:30

Spectrum:

Tune Spec :Average 1362-1364(9.86-9.87) Bgrd 1356(9.82)

Base Peak:

442.10

Minimum % Base Peak: 0

Number of Points:

276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
92.00	1730	172.00	2432	250.00	392	352.00	6492
93.00	19496	173.00	3101	251.00	788	353.00	5148
94.00	1371	174.00	5497	252.00	844	354.00	6816
96.00	1247	175.00	10844	253.00	967	355.00	1555
98.00	14739	176.00	2945	255.00	397376	359.00	213
99.00	12363	177.00	4797	256.00	58232	363.00	184
100.00	1067	179.00	19464	257.00	5202	365.00	30448
101.00	7429	180.00	14196	258.00	22952	366.00	4376
102.00	248	181.00	6263	259.00	2984	370.00	696
103.00	2751	182.00	1119	260.00	524	371.00	2154
104.00	4712	183.00	777	261.00	556	372.00	13266
105.00	4514	184.00	873	264.00	236	373.00	3192
107.00	59240	185.00	5326	265.00	9146	374.00	386
108.00	9298	186.00	76016	266.00	1708	383.00	4014
110.00	109960	187.00	21144	267.00	179	384.00	1217
111.00	16696	188.00	2506	268.00	180	390.00	1557
112.00	1964	189.00	4521	270.00	498	391.00	1349
113.00	558	190.00	731	271.00	966	392.00	847
115.00	267	191.00	2334	273.00	13687	397.00	168
117.00	47952	192.00	6361	274.00	37896	401.00	1146
118.00	3653	193.00	6476	275.00	203392	402.00	5922
119.00	571	194.00	1690	276.00	26792	403.00	8559
120.00	560	195.00	511	277.00	15133	404.00	2942
122.00	4060	196.00	19648	278.00	2636	405.00	548
123.00	6360	198.00	602368	279.00	420	415.00	451
124.00	2670	199.00	42128	281.00	927	421.00	8100
125.00	2721	200.00	2970	282.00	461	422.00	4925
127.00	233920	202.00	3106	283.00	2255	423.00	60712
128.00	17864	202.00	218	284.00	1139	424.00	14820
129.00	86880	203.00	4293	285.00	3077	425.00	1517
130.00	7525	204.00	21496	286.00	466	438.00	177
131.00	1672	205.00	38408	289.00	635	439.00	517
132.00	921	206.00	154112	290.00	518	441.00	185280
133.00	782	207.00	20664	291.00	400	442.00	1095168

Report Date: 17-May-2021 13:53:13

Chrom Revision: 2.3 08-Apr-2021 17:17:48

Data File:

\\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161995.D\1,4_Dx_SIM_HP5973U.rslt\spe

Injection Date:

17-May-2021 13:25:30

Spectrum:

Tune Spec :Average 1362-1364(9.86-9.87) Bgrd 1356(9.82)

Base Peak:

442.10

Minimum % Base Peak: 0

Number of Points:

276

m/z	Y	m/z	Y	m/z	Y	m/z	Y
134.00	2729	208.00	4829	292.00	716	443.00	228032
135.00	7141	209.00	2000	293.00	4581	444.00	21384

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161995.D

Injection Date: 17-May-2021 13:25:30

Instrument ID: HP5973U

Operator ID: PJO

Lims ID: DFTPP

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

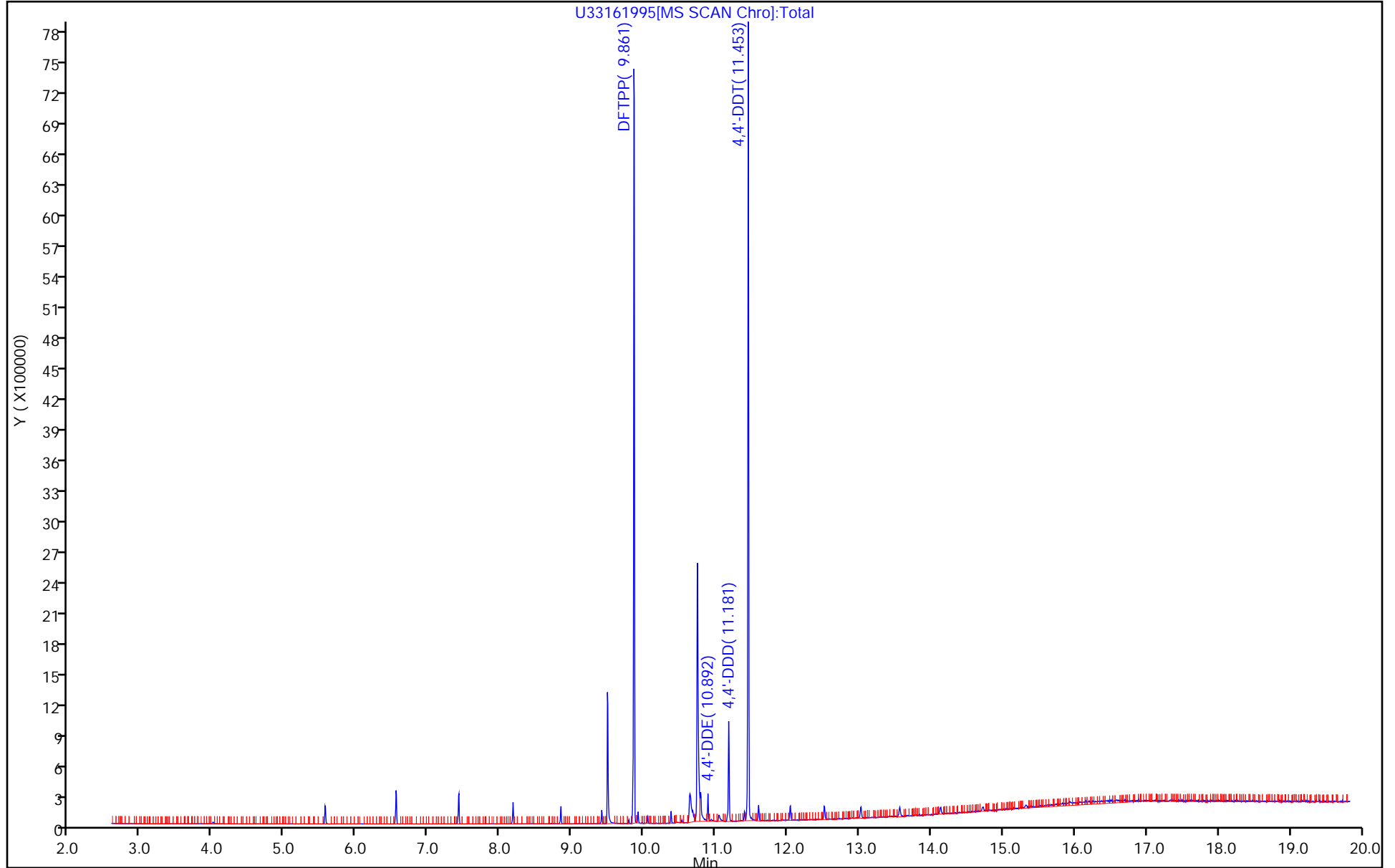
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33161995.D

Injection Date: 17-May-2021 13:25:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

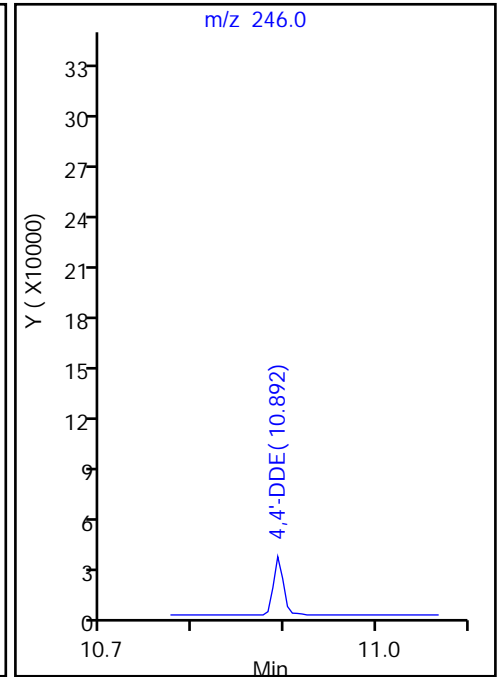
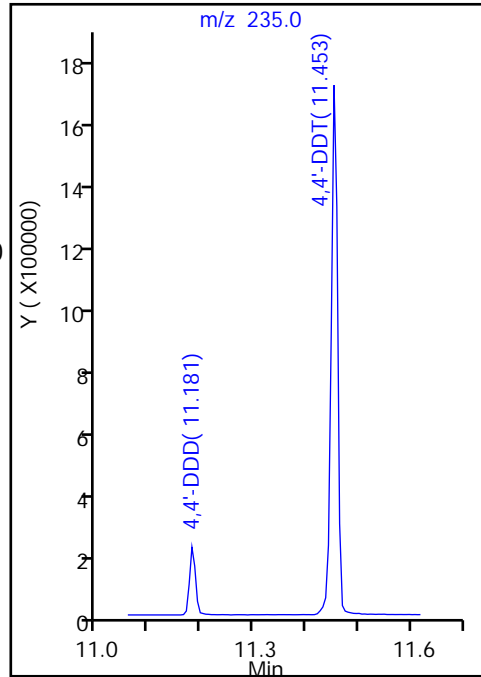
6 4,4'-DDT, Area = 1472086

5 4,4'-DDD, Area = 176710

7 4,4'-DDE, Area = 26408

%Breakdown: 12.12%, <= 20.00%

Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-580914/1-A
 Matrix: Water Lab File ID: U33162003.D
 Analysis Method: 8270D SIM ID Date Collected: _____
 Extract. Method: 3510C Date Extracted: 05/14/2021 08:12
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/17/2021 16:36
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 581278 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.113	J	0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	32		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162003.D
 Lims ID: MB 480-580914/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 17-May-2021 16:36:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0098640-010
 Operator ID: PJQ Instrument ID: HP5973U
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-May-2021 14:54:06 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1663

First Level Reviewer: quirkp Date: 17-May-2021 17:03:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.642	2.552	0.090	90	210716	10.0	3.23	
3 1,4-Dioxane	88	2.687	2.593	0.094	56	2538		0.1129	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.820	0.008	94	647367	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00213 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162003.D

Injection Date: 17-May-2021 16:36:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: MB 480-580914/1-A

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

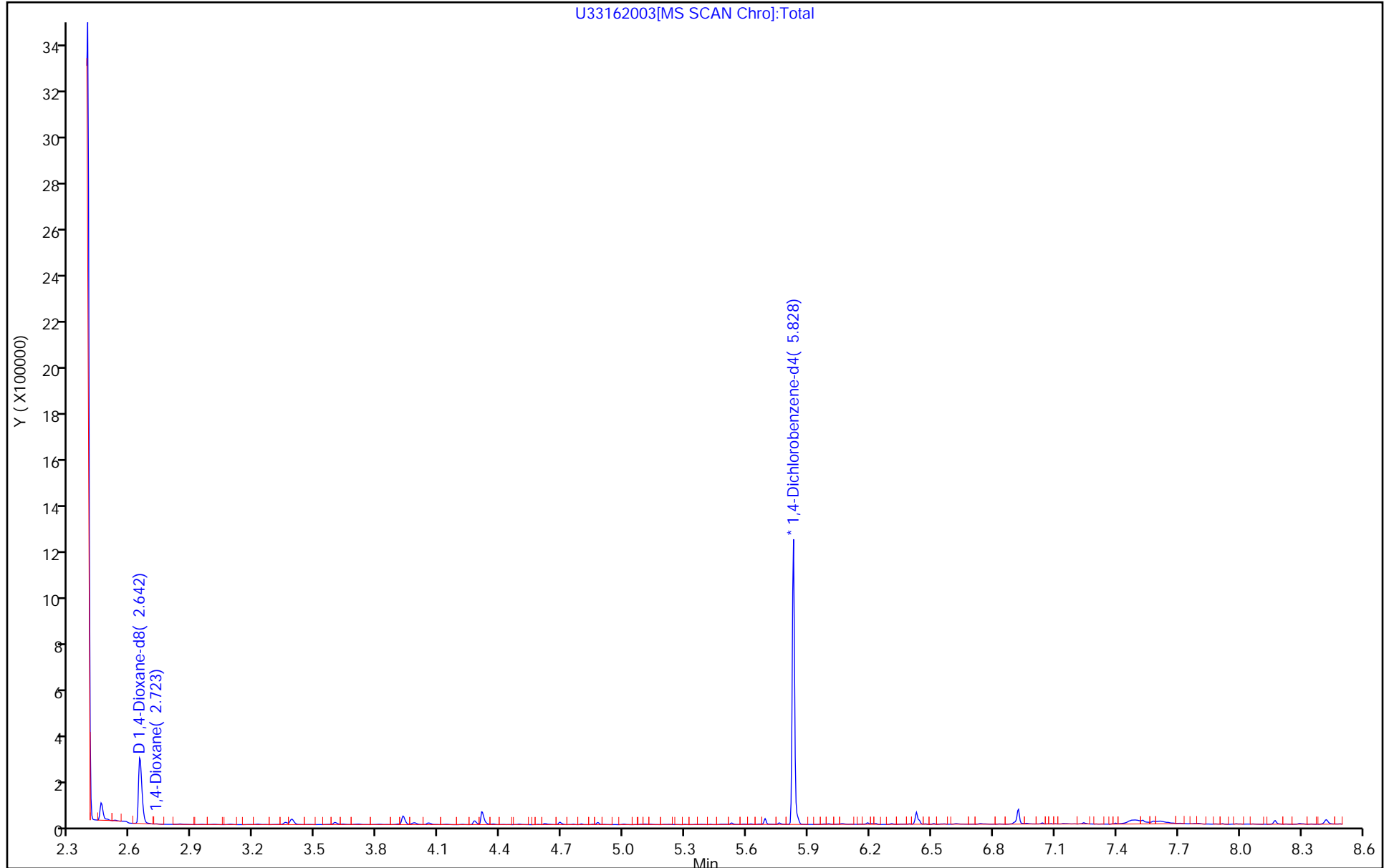
ALS Bottle#: 10

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

U33162003[MS SCAN Chro]:Total



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162003.D

Injection Date: 17-May-2021 16:36:30

Instrument ID: HP5973U

Lims ID: MB 480-580914/1-A

Client ID:

Operator ID: PJQ

ALS Bottle#: 10

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

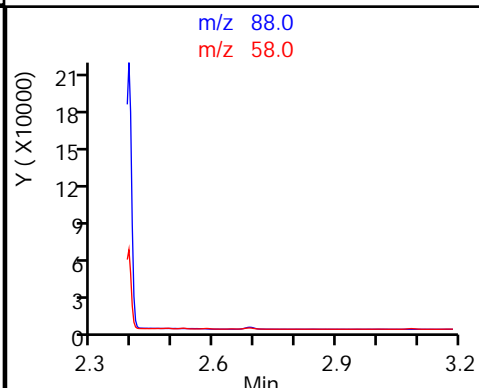
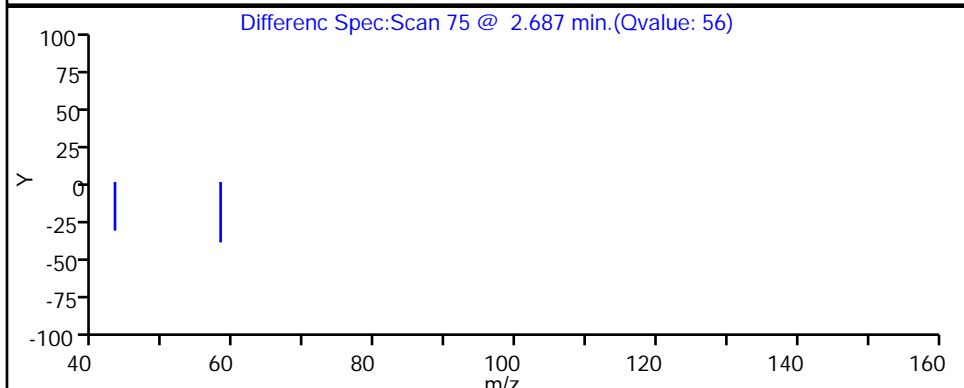
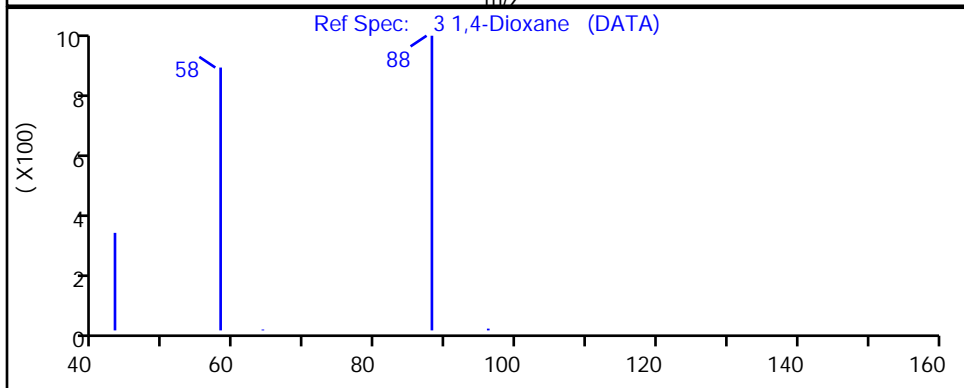
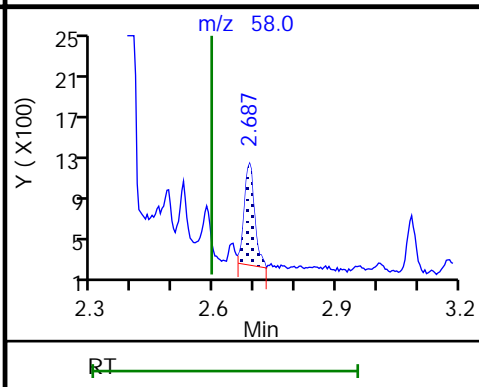
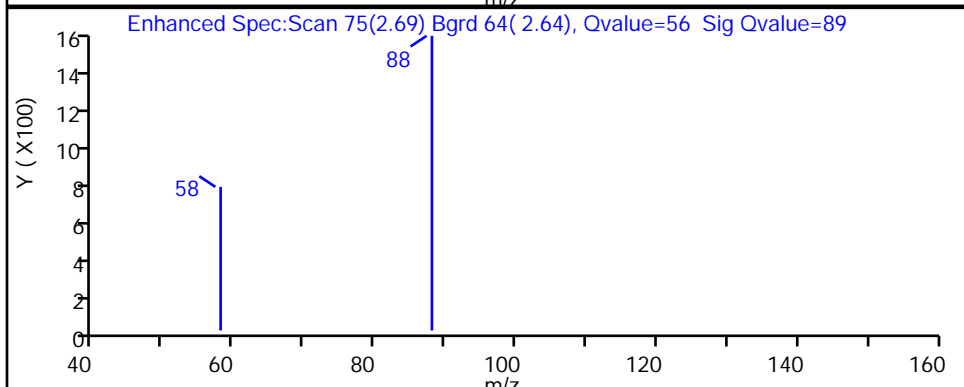
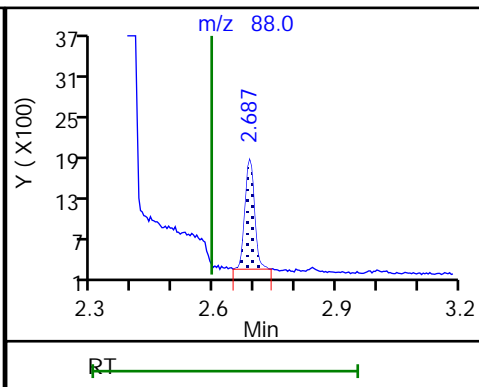
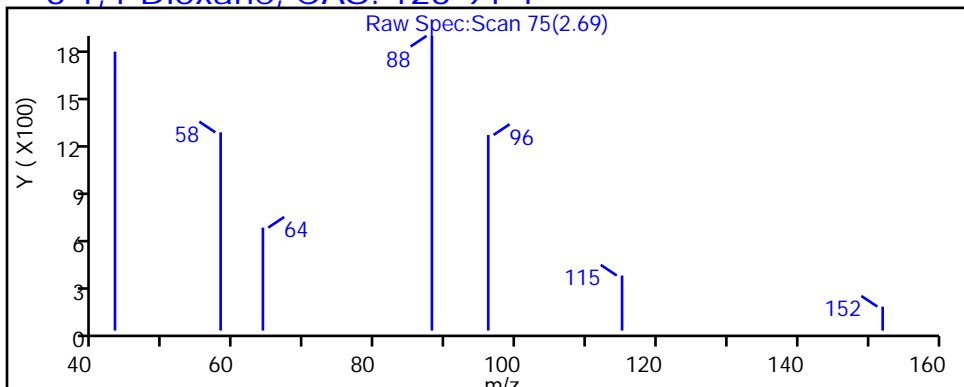
Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162003.D

Injection Date: 17-May-2021 16:36:30

Instrument ID: HP5973U

Lims ID: MB 480-580914/1-A

Client ID:

Operator ID: PJQ

ALS Bottle#: 10

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

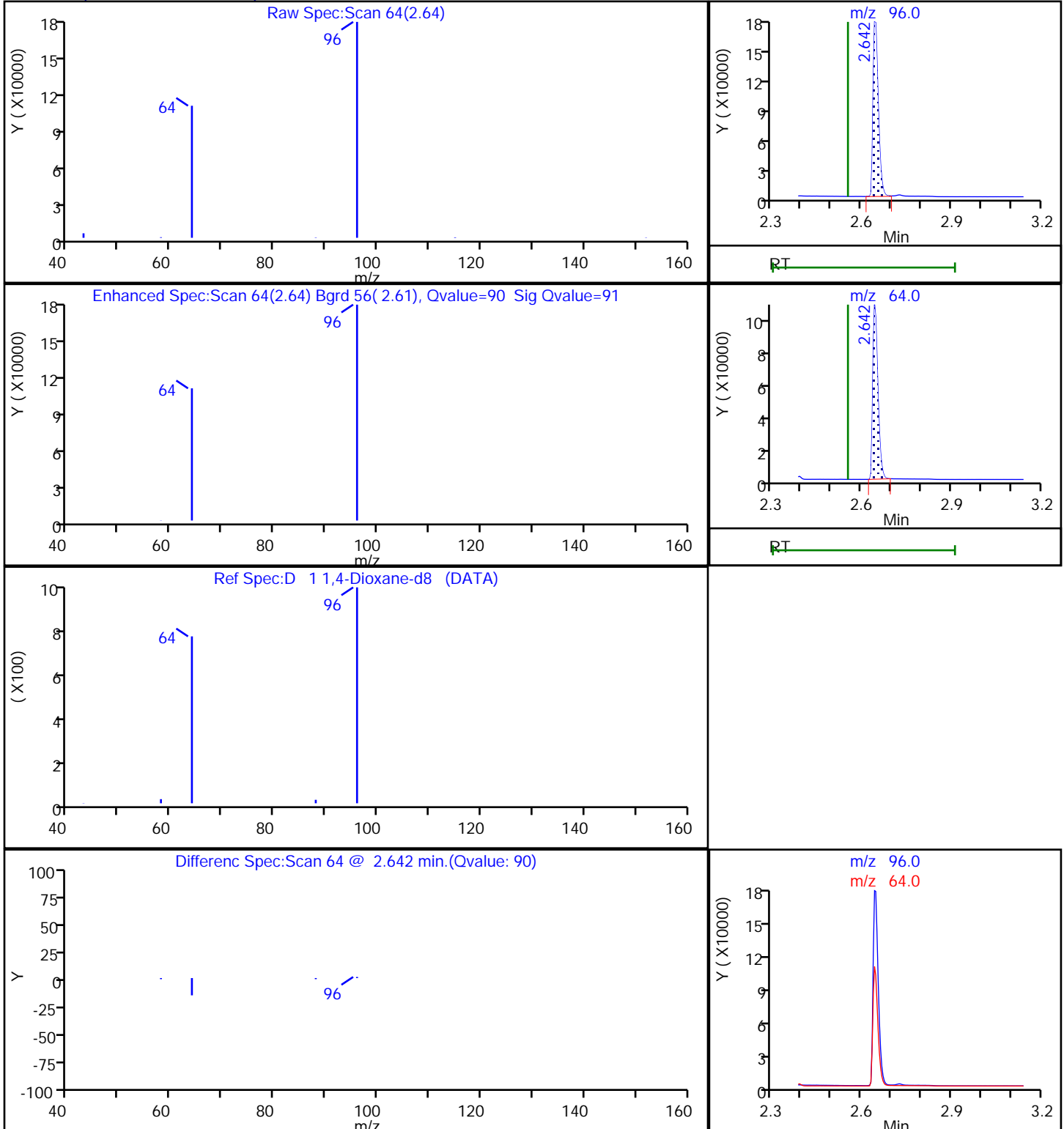
Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-580914/2-A
 Matrix: Water Lab File ID: U33162004.D
 Analysis Method: 8270D SIM ID Date Collected: _____
 Extract. Method: 3510C Date Extracted: 05/14/2021 08:12
 Sample wt/vol: 1000 (mL) Date Analyzed: 05/17/2021 16:59
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 581278 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.13		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	33		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162004.D
 Lims ID: LCS 480-580914/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 17-May-2021 16:59:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0098640-011
 Operator ID: PJQ Instrument ID: HP5973U
 Method: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\1,4_Dx_SIM_HP5973U.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-May-2021 22:49:41 Calib Date: 11-May-2021 17:48:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973U\20210511-98502.b\U33161876.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1673

First Level Reviewer: quirkp Date: 18-May-2021 11:34:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.691	2.552	0.139	91	201187	10.0	3.29	
3 1,4-Dioxane	88	2.731	2.593	0.138	83	24202	1.00	1.13	
* 2 1,4-Dichlorobenzene-d4	152	5.828	5.820	0.008	95	607667	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00213 Amount Added: 20.00 Units: uL Run Reagent

Report Date: 18-May-2021 11:34:43

Chrom Revision: 2.3 08-Apr-2021 17:17:48

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973U\20210517-98640.b\U33162004.D

Injection Date: 17-May-2021 16:59:30

Instrument ID: HP5973U

Operator ID: PJQ

Lims ID: LCS 480-580914/2-A

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

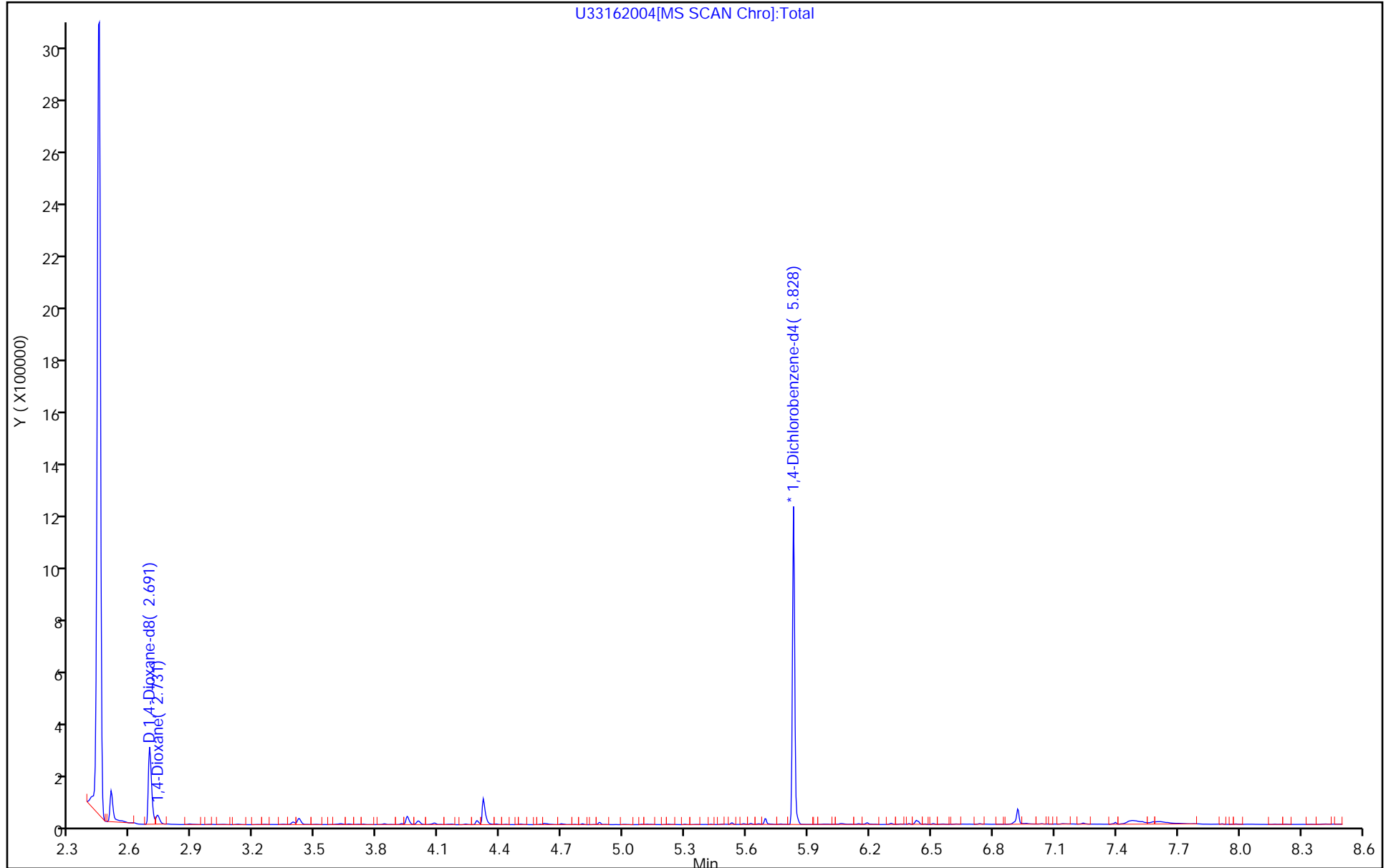
ALS Bottle#: 11

Method: 1,4_Dx_SIM_HP5973U

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5SiI MS (0.25 mm)

U33162004[MS SCAN Chro]:Total



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-184568-1

SDG No.: _____

Instrument ID: HP5973UStart Date: 05/11/2021 14:19Analysis Batch Number: 580391End Date: 05/11/2021 18:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-580391/2		05/11/2021 14:19	1	U33161869.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-580391/3		05/11/2021 15:26	1	U33161870.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-580391/4		05/11/2021 15:49	1	U33161871.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-580391/5		05/11/2021 16:13	1	U33161872.D	RXI-5Sil MS(0.5 0.25 (mm))
ICIS 480-580391/6		05/11/2021 16:37	1	U33161873.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-580391/7		05/11/2021 17:01	1	U33161874.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-580391/8		05/11/2021 17:24	1	U33161875.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-580391/9		05/11/2021 17:48	1	U33161876.D	RXI-5Sil MS(0.5 0.25 (mm))
ICV 480-580391/10		05/11/2021 18:12	1	U33161877.D	RXI-5Sil MS(0.5 0.25 (mm))

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-184568-1

SDG No.: _____

Instrument ID: HP5973UStart Date: 05/17/2021 13:25Analysis Batch Number: 581278End Date: 05/18/2021 00:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-581278/2		05/17/2021 13:25	1	U33161995.D	RXI-5Sil MS(0.5 0.25 (mm))
CCVIS 480-581278/3		05/17/2021 13:52	1	U33161996.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 14:16	5		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 14:39	5		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 15:02	5		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 15:26	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 15:49	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 16:12	1		RXI-5Sil MS(0.5 0.25 (mm))
MB 480-580914/1-A		05/17/2021 16:36	1	U33162003.D	RXI-5Sil MS(0.5 0.25 (mm))
LCS 480-580914/2-A		05/17/2021 16:59	1	U33162004.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 17:23	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 17:46	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 18:10	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 18:33	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 18:57	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 19:20	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 19:44	1		RXI-5Sil MS(0.5 0.25 (mm))
480-184568-1	DGC-4S	05/17/2021 20:08	1	U33162012.D	RXI-5Sil MS(0.5 0.25 (mm))
480-184568-2	MW-26S	05/17/2021 20:32	1	U33162013.D	RXI-5Sil MS(0.5 0.25 (mm))
480-184568-3	MW-25S	05/17/2021 20:55	1	U33162014.D	RXI-5Sil MS(0.5 0.25 (mm))
480-184568-4	MW-25S-D	05/17/2021 21:19	1	U33162015.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 21:43	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 22:07	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 22:31	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 22:55	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 23:19	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/17/2021 23:43	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/18/2021 00:07	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		05/18/2021 00:31	10		RXI-5Sil MS(0.5 0.25 (mm))

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-184568-1

SDG No.: _____

Batch Number: 580914 Batch Start Date: 05/14/21 08:12 Batch Analyst: Pollock, Jacob M

Batch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP_SIM_LCS 00014	OP_SimSurr 00030
MB 480-580914/1		3510C, 8270D SIM ID		1000 mL	1 mL	7 SU	<2 SU		1 mL
LCS 480-580914/2		3510C, 8270D SIM ID		1000 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-184568-A-1	DGC-4S	3510C, 8270D SIM ID	T	1030 mL	1 mL	7 SU	<2 SU		1 mL
480-184568-A-2	MW-26S	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-184568-C-3	MW-25S	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-184568-A-4	MW-25S-D	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL

Batch Notes	
Acid Used for pH Adjustment ID	6417582
Analyst ID - Concentration	JP
Analyst ID - Extraction	JP
Method/Fraction	3510C/8270_SIM_MS_ID
Na2SO4 ID	6341045
Prep Solvent ID	6470371
Prep Solvent Volume Used	180 mL
Analyst ID - Spike Analyst	JP
Analyst ID - Spike Witness Analyst	JP
Sufficient Volume for Batch QC	Yes
Vial Lot Number	1709111094

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Chain of Custody Record

Eurofins TestAmerica, Buffalo Albany #224

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Client Information		Lab PM: Mason, Becky C		Carrier Tracking No(s): 480-160354-35281.1	
Client Contact: Mr. Jeff Liddle		E-Mail: Becky.Mason@Eurofins.com		State of Origin:	
Company: Tetra Tech GEO		PWSID:		Page 1 of 1	
Address: Three Lan Drive Suite 100		Due Date Requested:		Job #:	
City: Westford		TAT Requested (days): 5 Standard		Preservation Codes:	
State, Zip: MA, 01886		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice	
Phone: 978-319-7391 (Tel)		Purchase Order Requested		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate	
Email: jeff.liddle@tetratech.com		WO #:		Barcode: 480-184568 Chain of Custody	
Project Name: Malta, NY - Emerging Contaminants		Project #: 48023770			
Site:		SSOW#:			

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)	8270D_SIM_MS_ID	Special Instructions/Note:
DGL-45	5/10/24	1225	6	Water	X	X		
MW-265	5/10/24	1620	6	Water	X	X		
MW-255	5/10/24	1415	6	Water	X	X		
MW-255-D	5/10/24	1430	6	Water	X	X		
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				
				Water				

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: _____ Date/Time: 5/10/24 1650 Company: Tetra Tech

Relinquished by: _____ Date/Time: 5/11/21 1700 Company: Eurofins

Relinquished by: _____ Date/Time: 5/12/21 0800 Company: FAB

Custody Seals Intact: Yes No **Custody Seal No.:** #1210

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 480-184568-1

Login Number: 184568
List Number: 1
Creator: Wallace, Cameron

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TETRA TECH
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Job Number: 200-58440-1

Job Description: Malta, NY - Emerging Contaminants

For:
Tetra Tech GEO
Three Lan Drive
Suite 100
Westford, MA 01886
Attention: Mr. Jeff Liddle



Approved for release.
Wyatt B Watson
Project Management Assistant I
5/25/2021 2:25 PM

Designee for
Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
Becky.Mason@Eurofinset.com
05/25/2021

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 Eurofins TestAmerica Project Manager who has signed this report.

Eurofins 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.

Eurofins TestAmerica, Burlington

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Job Narrative
200-58440-1

Comments

No additional comments.

Receipt

The samples were received on 5/12/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

LCMS

Method 537 (modified): The method blank for preparation batch 200-167147 and analytical batch 200-167173 contained Perfluorooctanesulfonic acid (PFOS) 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.

Method 537 (modified): Method 537 (modified): The "I" qualifier associated with samples MW-25S-D (200-58440-3) and DGC-4S (200-58440-4) is applied because the transition mass ratio for the indicated analyte(s) was outside of the established ratio limits. The qualitative identification has some degree of uncertainty, however analyst judgment was used to positively identify the analyte(s).

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

Sample Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-58440-1	MW-26S	Water	05/10/21 16:20	05/12/21 10:00	
200-58440-2	MW-25S	Water	05/10/21 14:15	05/12/21 10:00	
200-58440-3	MW-25S-D	Water	05/10/21 14:30	05/12/21 10:00	
200-58440-4	DGC-4S	Water	05/10/21 12:25	05/12/21 10:00	
200-58440-5	FIELD BLANK	Water	05/10/21 10:30	05/12/21 10:00	

Detection Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Client Sample ID: MW-26S

Lab Sample ID: 200-58440-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	9.2		4.1	0.74	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	4.2		1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.6		1.7	0.37	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.48	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.61	J	1.7	0.35	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.3		1.7	0.21	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-25S

Lab Sample ID: 200-58440-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	6.3		4.2	0.76	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.70	J	1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.42	J	1.7	0.38	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.27	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.40	J	1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.35	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-25S-D

Lab Sample ID: 200-58440-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.9		4.3	0.77	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	0.62	J	1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.39	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.26	J	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.51	J	1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.33	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.31	J B	1.7	0.25	ng/L	1		537 (modified)	Total/NA

Client Sample ID: DGC-4S

Lab Sample ID: 200-58440-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	2.7	J	4.3	0.77	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	1.4	J	1.7	0.41	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	0.53	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.22	J I	1.7	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	0.53	J	1.7	0.36	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.92	J	1.7	0.21	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	0.28	J B	1.7	0.25	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FIELD BLANK

Lab Sample ID: 200-58440-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanesulfonic acid (PFOS)	0.26	J B	1.7	0.25	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Method Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR

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 BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Client Sample Results

Client: Tetra Tech GEO
 Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Client Sample ID: MW-26S

Lab Sample ID: 200-58440-1

Date Collected: 05/10/21 16:20

Matrix: Water

Date Received: 05/12/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.2		4.1	0.74	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluoropentanoic acid (PFPeA)	4.2		1.7	0.39	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorohexanoic acid (PFHxA)	2.6		1.7	0.37	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluoroheptanoic acid (PFHpA)	0.48	J	1.7	0.20	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorooctanoic acid (PFOA)	0.61	J	1.7	0.35	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.25	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.28	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.32	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.36	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.52	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorobutanesulfonic acid (PFBS)	3.3		1.7	0.21	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.25	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.19	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.24	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.25	ng/L		05/21/21 11:52	05/21/21 23:10	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.48	ng/L		05/21/21 11:52	05/21/21 23:10	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.75	ng/L		05/21/21 11:52	05/21/21 23:10	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.62	ng/L		05/21/21 11:52	05/21/21 23:10	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.91	ng/L		05/21/21 11:52	05/21/21 23:10	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.32	ng/L		05/21/21 11:52	05/21/21 23:10	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	95		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C4 PFHpA	93		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C4 PFOA	95		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C4 PFOS	86		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C5 PFNA	93		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C4 PFBA	90		25 - 150				05/21/21 11:52	05/21/21 23:10	1
13C2 PFHxA	97		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C2 PFDA	84		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C2 PFUnA	77		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C2 PFDoA	75		50 - 150				05/21/21 11:52	05/21/21 23:10	1
13C8 FOSA	74		25 - 150				05/21/21 11:52	05/21/21 23:10	1
13C5 PFPeA	91		25 - 150				05/21/21 11:52	05/21/21 23:10	1
13C2 PFTeDA	76		50 - 150				05/21/21 11:52	05/21/21 23:10	1
d3-NMeFOSAA	79		50 - 150				05/21/21 11:52	05/21/21 23:10	1
d5-NEtFOSAA	77		50 - 150				05/21/21 11:52	05/21/21 23:10	1
M2-6:2 FTS	100		25 - 150				05/21/21 11:52	05/21/21 23:10	1
M2-8:2 FTS	92		25 - 150				05/21/21 11:52	05/21/21 23:10	1
13C3 PFBS	92		50 - 150				05/21/21 11:52	05/21/21 23:10	1

Client Sample Results

Client: Tetra Tech GEO
 Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Client Sample ID: MW-25S

Lab Sample ID: 200-58440-2

Date Collected: 05/10/21 14:15

Matrix: Water

Date Received: 05/12/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.3		4.2	0.76	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluoropentanoic acid (PFPeA)	0.70	J	1.7	0.40	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorohexanoic acid (PFHxA)	0.42	J	1.7	0.38	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluoroheptanoic acid (PFHpA)	0.27	J	1.7	0.20	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorooctanoic acid (PFOA)	0.40	J	1.7	0.36	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.24	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.53	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorobutanesulfonic acid (PFBS)	0.35	J	1.7	0.21	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.25	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:18	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49	ng/L		05/21/21 11:52	05/21/21 23:18	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.76	ng/L		05/21/21 11:52	05/21/21 23:18	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.63	ng/L		05/21/21 11:52	05/21/21 23:18	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.2	0.93	ng/L		05/21/21 11:52	05/21/21 23:18	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.33	ng/L		05/21/21 11:52	05/21/21 23:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	89		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C4 PFHpA	95		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C4 PFOA	93		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C4 PFOS	87		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C5 PFNA	94		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C4 PFBA	89		25 - 150	05/21/21 11:52	05/21/21 23:18	1
13C2 PFHxA	90		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C2 PFDA	88		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C2 PFUnA	74		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C2 PFDoA	70		50 - 150	05/21/21 11:52	05/21/21 23:18	1
13C8 FOSA	77		25 - 150	05/21/21 11:52	05/21/21 23:18	1
13C5 PFPeA	89		25 - 150	05/21/21 11:52	05/21/21 23:18	1
13C2 PFTeDA	77		50 - 150	05/21/21 11:52	05/21/21 23:18	1
d3-NMeFOSAA	79		50 - 150	05/21/21 11:52	05/21/21 23:18	1
d5-NEtFOSAA	91		50 - 150	05/21/21 11:52	05/21/21 23:18	1
M2-6:2 FTS	93		25 - 150	05/21/21 11:52	05/21/21 23:18	1
M2-8:2 FTS	86		25 - 150	05/21/21 11:52	05/21/21 23:18	1
13C3 PFBS	87		50 - 150	05/21/21 11:52	05/21/21 23:18	1

Client Sample Results

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Client Sample ID: MW-25S-D

Lab Sample ID: 200-58440-3

Date Collected: 05/10/21 14:30

Matrix: Water

Date Received: 05/12/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	5.9		4.3	0.77	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluoropentanoic acid (PFPeA)	0.62	J	1.7	0.41	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorohexanoic acid (PFHxA)	0.39	J	1.7	0.39	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluoroheptanoic acid (PFHpA)	0.26	J	1.7	0.20	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorooctanoic acid (PFOA)	0.51	J	1.7	0.36	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.24	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorobutanesulfonic acid (PFBS)	0.33	J	1.7	0.21	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorooctanesulfonic acid (PFOS)	0.31	J I B	1.7	0.25	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:26	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49	ng/L		05/21/21 11:52	05/21/21 23:26	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.77	ng/L		05/21/21 11:52	05/21/21 23:26	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.64	ng/L		05/21/21 11:52	05/21/21 23:26	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.94	ng/L		05/21/21 11:52	05/21/21 23:26	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.33	ng/L		05/21/21 11:52	05/21/21 23:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	88		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C4 PFHpA	89		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C4 PFOA	93		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C4 PFOS	87		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C5 PFNA	86		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C4 PFBA	88		25 - 150				05/21/21 11:52	05/21/21 23:26	1
13C2 PFHxA	94		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C2 PFDA	87		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C2 PFUnA	81		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C2 PFDoA	76		50 - 150				05/21/21 11:52	05/21/21 23:26	1
13C8 FOSA	82		25 - 150				05/21/21 11:52	05/21/21 23:26	1
13C5 PFPeA	89		25 - 150				05/21/21 11:52	05/21/21 23:26	1
13C2 PFTeDA	79		50 - 150				05/21/21 11:52	05/21/21 23:26	1
d3-NMeFOSAA	81		50 - 150				05/21/21 11:52	05/21/21 23:26	1
d5-NEtFOSAA	88		50 - 150				05/21/21 11:52	05/21/21 23:26	1
M2-6:2 FTS	94		25 - 150				05/21/21 11:52	05/21/21 23:26	1
M2-8:2 FTS	93		25 - 150				05/21/21 11:52	05/21/21 23:26	1
13C3 PFBS	87		50 - 150				05/21/21 11:52	05/21/21 23:26	1

Client Sample Results

Client: Tetra Tech GEO
 Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Client Sample ID: DGC-4S

Lab Sample ID: 200-58440-4

Date Collected: 05/10/21 12:25

Matrix: Water

Date Received: 05/12/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.7	J	4.3	0.77	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluoropentanoic acid (PFPeA)	1.4	J	1.7	0.41	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorohexanoic acid (PFHxA)	0.53	J	1.7	0.39	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluoroheptanoic acid (PFHpA)	0.22	J I	1.7	0.20	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorooctanoic acid (PFOA)	0.53	J	1.7	0.36	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.24	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.30	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorobutanesulfonic acid (PFBS)	0.92	J	1.7	0.21	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorooctanesulfonic acid (PFOS)	0.28	J B	1.7	0.25	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:35	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.50	ng/L		05/21/21 11:52	05/21/21 23:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.78	ng/L		05/21/21 11:52	05/21/21 23:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.64	ng/L		05/21/21 11:52	05/21/21 23:35	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.94	ng/L		05/21/21 11:52	05/21/21 23:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.34	ng/L		05/21/21 11:52	05/21/21 23:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	98		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C4 PFHpA	96		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C4 PFOA	101		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C4 PFOS	89		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C5 PFNA	95		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C4 PFBA	89		25 - 150	05/21/21 11:52	05/21/21 23:35	1
13C2 PFHxA	99		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C2 PFDA	89		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C2 PFUnA	82		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C2 PFDoA	72		50 - 150	05/21/21 11:52	05/21/21 23:35	1
13C8 FOSA	80		25 - 150	05/21/21 11:52	05/21/21 23:35	1
13C5 PFPeA	96		25 - 150	05/21/21 11:52	05/21/21 23:35	1
13C2 PFTeDA	77		50 - 150	05/21/21 11:52	05/21/21 23:35	1
d3-NMeFOSAA	86		50 - 150	05/21/21 11:52	05/21/21 23:35	1
d5-NEtFOSAA	83		50 - 150	05/21/21 11:52	05/21/21 23:35	1
M2-6:2 FTS	94		25 - 150	05/21/21 11:52	05/21/21 23:35	1
M2-8:2 FTS	99		25 - 150	05/21/21 11:52	05/21/21 23:35	1
13C3 PFBS	94		50 - 150	05/21/21 11:52	05/21/21 23:35	1

Client Sample Results

Client: Tetra Tech GEO
 Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 200-58440-5

Date Collected: 05/10/21 10:30

Matrix: Water

Date Received: 05/12/21 10:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.4	0.78	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.41	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.39	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.21	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.37	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.25	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.27	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.30	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.34	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.38	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.55	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.22	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.26	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorooctanesulfonic acid (PFOS)	0.26	J B	1.7	0.25	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27	ng/L		05/21/21 11:52	05/21/21 23:43	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.50	ng/L		05/21/21 11:52	05/21/21 23:43	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.79	ng/L		05/21/21 11:52	05/21/21 23:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.65	ng/L		05/21/21 11:52	05/21/21 23:43	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.4	0.96	ng/L		05/21/21 11:52	05/21/21 23:43	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.34	ng/L		05/21/21 11:52	05/21/21 23:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	92		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C4 PFHpA	95		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C4 PFOA	100		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C4 PFOS	90		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C5 PFNA	98		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C4 PFBA	100		25 - 150				05/21/21 11:52	05/21/21 23:43	1
13C2 PFHxA	100		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C2 PFDA	101		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C2 PFUnA	92		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C2 PFDoA	82		50 - 150				05/21/21 11:52	05/21/21 23:43	1
13C8 FOSA	63		25 - 150				05/21/21 11:52	05/21/21 23:43	1
13C5 PFPeA	98		25 - 150				05/21/21 11:52	05/21/21 23:43	1
13C2 PFTeDA	78		50 - 150				05/21/21 11:52	05/21/21 23:43	1
d3-NMeFOSAA	100		50 - 150				05/21/21 11:52	05/21/21 23:43	1
d5-NEtFOSAA	99		50 - 150				05/21/21 11:52	05/21/21 23:43	1
M2-6:2 FTS	99		25 - 150				05/21/21 11:52	05/21/21 23:43	1
M2-8:2 FTS	114		25 - 150				05/21/21 11:52	05/21/21 23:43	1
13C3 PFBS	93		50 - 150				05/21/21 11:52	05/21/21 23:43	1

Isotope Dilution Summary

Client: Tetra Tech GEO
 Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (25-150)	PFHxA (50-150)	PFDA (50-150)
200-58440-1	MW-26S	95	93	95	86	93	90	97	84
200-58440-2	MW-25S	89	95	93	87	94	89	90	88
200-58440-3	MW-25S-D	88	89	93	87	86	88	94	87
200-58440-4	DGC-4S	98	96	101	89	95	89	99	89
200-58440-5	FIELD BLANK	92	95	100	90	98	100	100	101
LCS 200-167147/2-A	Lab Control Sample	96	97	96	94	99	100	99	102
LCSD 200-167147/3-A	Lab Control Sample Dup	96	99	101	100	99	102	101	103
MB 200-167147/1-A	Method Blank	84	86	88	88	88	89	90	92

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDaA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
200-58440-1	MW-26S	77	75	74	91	76	79	77	100
200-58440-2	MW-25S	74	70	77	89	77	79	91	93
200-58440-3	MW-25S-D	81	76	82	89	79	81	88	94
200-58440-4	DGC-4S	82	72	80	96	77	86	83	94
200-58440-5	FIELD BLANK	92	82	63	98	78	100	99	99
LCS 200-167147/2-A	Lab Control Sample	89	82	68	100	80	97	94	96
LCSD 200-167147/3-A	Lab Control Sample Dup	99	88	74	101	87	104	98	96
MB 200-167147/1-A	Method Blank	77	69	53	88	66	88	77	84

		Percent Isotope Dilution Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	M282FTS (25-150)	C3PFBS (50-150)
200-58440-1	MW-26S	92	92
200-58440-2	MW-25S	86	87
200-58440-3	MW-25S-D	93	87
200-58440-4	DGC-4S	99	94
200-58440-5	FIELD BLANK	114	93
LCS 200-167147/2-A	Lab Control Sample	105	93
LCSD 200-167147/3-A	Lab Control Sample Dup	106	98
MB 200-167147/1-A	Method Blank	94	87

Surrogate Legend

PFHxS = 18O2 PFHxS
 C4PFHA = 13C4 PFHpA
 PFOA = 13C4 PFOA
 PFOS = 13C4 PFOS
 PFNA = 13C5 PFNA
 PFBA = 13C4 PFBA
 PFHxA = 13C2 PFHxA
 PFDA = 13C2 PFDA
 PFUnA = 13C2 PFUnA
 PFDaA = 13C2 PFDaA
 PFOSA = 13C8 FOSA
 PFPeA = 13C5 PFPeA
 PFTDA = 13C2 PFTeDA
 d3NMFOS = d3-NMeFOSAA
 d5NEFOS = d5-NEtFOSAA
 M262FTS = M2-6:2 FTS
 M282FTS = M2-8:2 FTS

Isotope Dilution Summary

Client: Tetra Tech GEO

Job ID: 200-58440-1

Project/Site: Malta, NY - Emerging Contaminants

C3PFBS = 13C3 PFBS

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-167147/1-A

Matrix: Water

Analysis Batch: 167173

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 167147

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		5.0	0.89	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.47	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.45	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.24	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.42	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.28	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.30	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.34	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.39	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.63	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.25	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.30	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.23	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorooctanesulfonic acid (PFOS)	0.422	J	2.0	0.29	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31	ng/L		05/21/21 11:52	05/21/21 22:45	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.58	ng/L		05/21/21 11:52	05/21/21 22:45	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.90	ng/L		05/21/21 11:52	05/21/21 22:45	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.74	ng/L		05/21/21 11:52	05/21/21 22:45	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1	ng/L		05/21/21 11:52	05/21/21 22:45	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39	ng/L		05/21/21 11:52	05/21/21 22:45	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
18O2 PFHxS	84		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C4 PFHpA	86		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C4 PFOA	88		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C4 PFOS	88		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C5 PFNA	88		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C4 PFBA	89		25 - 150	05/21/21 11:52	05/21/21 22:45	1
13C2 PFHxA	90		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C2 PFDA	92		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C2 PFUnA	77		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C2 PFDoA	69		50 - 150	05/21/21 11:52	05/21/21 22:45	1
13C8 FOSA	53		25 - 150	05/21/21 11:52	05/21/21 22:45	1
13C5 PFPeA	88		25 - 150	05/21/21 11:52	05/21/21 22:45	1
13C2 PFTeDA	66		50 - 150	05/21/21 11:52	05/21/21 22:45	1
d3-NMeFOSAA	88		50 - 150	05/21/21 11:52	05/21/21 22:45	1
d5-NEtFOSAA	77		50 - 150	05/21/21 11:52	05/21/21 22:45	1
M2-6:2 FTS	84		25 - 150	05/21/21 11:52	05/21/21 22:45	1
M2-8:2 FTS	94		25 - 150	05/21/21 11:52	05/21/21 22:45	1
13C3 PFBS	87		50 - 150	05/21/21 11:52	05/21/21 22:45	1

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

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

Lab Sample ID: LCS 200-167147/2-A

Matrix: Water

Analysis Batch: 167173

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 167147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	41.7		ng/L		104	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	42.3		ng/L		106	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	43.5		ng/L		109	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	42.1		ng/L		105	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	42.7		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	40.0	40.5		ng/L		101	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	38.9		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	45.7		ng/L		114	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	43.8		ng/L		109	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	41.4		ng/L		104	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	41.9		ng/L		105	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	38.7		ng/L		109	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.2		ng/L		105	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.8		ng/L		104	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	40.5		ng/L		109	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	37.4		ng/L		97	50 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	41.3		ng/L		103	50 - 150
N-methylperfluorooctanesulfonamide (NMeFOSAA)	40.0	39.7		ng/L		99	70 - 130
N-ethylperfluorooctanesulfonamide (NEtFOSAA)	40.0	39.0		ng/L		98	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	41.8		ng/L		110	50 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	38.9		ng/L		102	50 - 150

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
18O2 PFHxS	96		50 - 150
13C4 PFHpA	97		50 - 150
13C4 PFOA	96		50 - 150
13C4 PFOS	94		50 - 150
13C5 PFNA	99		50 - 150
13C4 PFBA	100		25 - 150
13C2 PFHxA	99		50 - 150
13C2 PFDA	102		50 - 150
13C2 PFUnA	89		50 - 150
13C2 PFDoA	82		50 - 150
13C8 FOSA	68		25 - 150
13C5 PFPeA	100		25 - 150
13C2 PFTeDA	80		50 - 150
d3-NMeFOSAA	97		50 - 150
d5-NEtFOSAA	94		50 - 150

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

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

Lab Sample ID: LCS 200-167147/2-A
Matrix: Water
Analysis Batch: 167173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 167147

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
M2-6:2 FTS	96		25 - 150
M2-8:2 FTS	105		25 - 150
13C3 PFBS	93		50 - 150

Lab Sample ID: LCSD 200-167147/3-A
Matrix: Water
Analysis Batch: 167173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 167147

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	Limit	RPD
Perfluorobutanoic acid (PFBA)	40.0	41.7		ng/L		104	50 - 150	0	30	
Perfluoropentanoic acid (PFPeA)	40.0	44.7		ng/L		112	50 - 150	6	30	
Perfluorohexanoic acid (PFHxA)	40.0	42.1		ng/L		105	70 - 130	3	20	
Perfluoroheptanoic acid (PFHpA)	40.0	41.5		ng/L		104	70 - 130	2	20	
Perfluorooctanoic acid (PFOA)	40.0	44.0		ng/L		110	70 - 130	3	20	
Perfluorononanoic acid (PFNA)	40.0	42.1		ng/L		105	70 - 130	4	20	
Perfluorodecanoic acid (PFDA)	40.0	43.6		ng/L		109	70 - 130	12	20	
Perfluoroundecanoic acid (PFUnA)	40.0	42.2		ng/L		105	70 - 130	8	20	
Perfluorododecanoic acid (PFDoA)	40.0	43.0		ng/L		108	70 - 130	2	20	
Perfluorotridecanoic acid (PFTriA)	40.0	41.1		ng/L		103	70 - 130	1	20	
Perfluorotetradecanoic acid (PFTeA)	40.0	43.5		ng/L		109	70 - 130	4	20	
Perfluorobutanesulfonic acid (PFBS)	35.4	37.1		ng/L		105	70 - 130	4	20	
Perfluorohexanesulfonic acid (PFHxS)	36.4	39.2		ng/L		108	70 - 130	3	20	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.8		ng/L		104	50 - 150	0	30	
Perfluorooctanesulfonic acid (PFOS)	37.1	38.6		ng/L		104	70 - 130	5	20	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.6		ng/L		100	50 - 150	3	30	
Perfluorooctanesulfonamide (PFOSA)	40.0	43.5		ng/L		109	50 - 150	5	30	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.4		ng/L		109	70 - 130	9	20	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	43.8		ng/L		109	70 - 130	11	20	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	40.8		ng/L		108	50 - 150	2	30	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	39.6		ng/L		103	50 - 150	2	30	

Isotope Dilution	LCSD		Limits
	%Recovery	Qualifier	
18O2 PFHxS	96		50 - 150
13C4 PFHpA	99		50 - 150
13C4 PFOA	101		50 - 150
13C4 PFOS	100		50 - 150
13C5 PFNA	99		50 - 150
13C4 PFBA	102		25 - 150

QC Sample Results

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

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

Lab Sample ID: LCSD 200-167147/3-A

Matrix: Water

Analysis Batch: 167173

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 167147

<i>Isotope Dilution</i>	<i>LCSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C2 PFHxA</i>	101		50 - 150
<i>13C2 PFDA</i>	103		50 - 150
<i>13C2 PFUnA</i>	99		50 - 150
<i>13C2 PFDoA</i>	88		50 - 150
<i>13C8 FOSA</i>	74		25 - 150
<i>13C5 PFPeA</i>	101		25 - 150
<i>13C2 PFTeDA</i>	87		50 - 150
<i>d3-NMeFOSAA</i>	104		50 - 150
<i>d5-NEtFOSAA</i>	98		50 - 150
<i>M2-6:2 FTS</i>	96		25 - 150
<i>M2-8:2 FTS</i>	106		25 - 150
<i>13C3 PFBS</i>	98		50 - 150

Definitions/Glossary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Qualifiers

LCMS

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

LCMS

Prep Batch: 167147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-58440-1	MW-26S	Total/NA	Water	3535	
200-58440-2	MW-25S	Total/NA	Water	3535	
200-58440-3	MW-25S-D	Total/NA	Water	3535	
200-58440-4	DGC-4S	Total/NA	Water	3535	
200-58440-5	FIELD BLANK	Total/NA	Water	3535	
MB 200-167147/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-167147/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 200-167147/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 167173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-58440-1	MW-26S	Total/NA	Water	537 (modified)	167147
200-58440-2	MW-25S	Total/NA	Water	537 (modified)	167147
200-58440-3	MW-25S-D	Total/NA	Water	537 (modified)	167147
200-58440-4	DGC-4S	Total/NA	Water	537 (modified)	167147
200-58440-5	FIELD BLANK	Total/NA	Water	537 (modified)	167147
MB 200-167147/1-A	Method Blank	Total/NA	Water	537 (modified)	167147
LCS 200-167147/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	167147
LCSD 200-167147/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	167147

Lab Chronicle

Client: Tetra Tech GEO
Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

Client Sample ID: MW-26S

Date Collected: 05/10/21 16:20

Date Received: 05/12/21 10:00

Lab Sample ID: 200-58440-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			167147	05/21/21 11:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	167173	05/21/21 23:10	ND	TAL BUR

Client Sample ID: MW-25S

Date Collected: 05/10/21 14:15

Date Received: 05/12/21 10:00

Lab Sample ID: 200-58440-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			167147	05/21/21 11:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	167173	05/21/21 23:18	ND	TAL BUR

Client Sample ID: MW-25S-D

Date Collected: 05/10/21 14:30

Date Received: 05/12/21 10:00

Lab Sample ID: 200-58440-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			167147	05/21/21 11:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	167173	05/21/21 23:26	ND	TAL BUR

Client Sample ID: DGC-4S

Date Collected: 05/10/21 12:25

Date Received: 05/12/21 10:00

Lab Sample ID: 200-58440-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			167147	05/21/21 11:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	167173	05/21/21 23:35	ND	TAL BUR

Client Sample ID: FIELD BLANK

Date Collected: 05/10/21 10:30

Date Received: 05/12/21 10:00

Lab Sample ID: 200-58440-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			167147	05/21/21 11:52	KFW	TAL BUR
Total/NA	Analysis	537 (modified)		1	167173	05/21/21 23:43	ND	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 530 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Tetra Tech GEO
 Project/Site: Malta, NY - Emerging Contaminants

Job ID: 200-58440-1

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	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 (modified)	3535	Water	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
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 (PFOSA)
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 PFC IDA

Fluorinated Hydrocarbons by Method
PFAS IDA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

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 #	PFHxS #	C4PFHA #	M262FTS #	PFOA #
MW-26S	200-58440-1	90	91	92	97	95	93	100	95
MW-25S	200-58440-2	89	89	87	90	89	95	93	93
MW-25S-D	200-58440-3	88	89	87	94	88	89	94	93
DGC-4S	200-58440-4	89	96	94	99	98	96	94	101
FIELD BLANK	200-58440-5	100	98	93	100	92	95	99	100
	MB 200-167147/1-A	89	88	87	90	84	86	84	88
	LCS 200-167147/2-A	100	100	93	99	96	97	96	96
	LCSD 200-167147/3-A	102	101	98	101	96	99	96	101

	<u>QC LIMITS</u>
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
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

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-26S	200-58440-1	86	93	84	92	74	79	77	77
MW-25S	200-58440-2	87	94	88	86	77	79	74	91
MW-25S-D	200-58440-3	87	86	87	93	82	81	81	88
DGC-4S	200-58440-4	89	95	89	99	80	86	82	83
FIELD BLANK	200-58440-5	90	98	101	114	63	100	92	99
	MB 200-167147/1-A	88	88	92	94	53	88	77	77
	LCS 200-167147/2-A	94	99	102	105	68	97	89	94
	LCSD 200-167147/3-A	100	99	103	106	74	104	99	98

PFOS = 13C4 PFOS
 PFNA = 13C5 PFNA
 PFDA = 13C2 PFDA
 M282FTS = M2-8:2 FTS
 PFOSA = 13C8 FOSA
 d3NMFOS = d3-NMeFOSAA
 PFUnA = 13C2 PFUnA
 d5NEFOS = d5-NEtFOSAA

QC LIMITS
 50-150
 50-150
 50-150
 25-150
 25-150
 50-150
 50-150
 50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDa #	PFTDA #
MW-26S	200-58440-1	75	76
MW-25S	200-58440-2	70	77
MW-25S-D	200-58440-3	76	79
DGC-4S	200-58440-4	72	77
FIELD BLANK	200-58440-5	82	78
	MB 200-167147/1-A	69	66
	LCS 200-167147/2-A	82	80
	LCSD 200-167147/3-A	88	87

PFDa = 13C2 PFDa
PFTDA = 13C2 PFTeDA

QC LIMITS
50-150
50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: PA210521C03.d

Lab ID: LCS 200-167147/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	41.7	104	50-150	
Perfluoropentanoic acid (PFPeA)	40.0	42.3	106	50-150	
Perfluorohexanoic acid (PFHxA)	40.0	43.5	109	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	42.1	105	70-130	
Perfluorooctanoic acid (PFOA)	40.0	42.7	107	70-130	
Perfluorononanoic acid (PFNA)	40.0	40.5	101	70-130	
Perfluorodecanoic acid (PFDA)	40.0	38.9	97	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	45.7	114	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	43.8	109	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	41.4	104	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.9	105	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	38.7	109	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.2	105	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.8	104	50-150	
Perfluorooctanesulfonic acid (PFOS)	37.1	40.5	109	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	37.4	97	50-150	
Perfluorooctanesulfonamide (PFOSA)	40.0	41.3	103	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	39.7	99	70-130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	39.0	98	70-130	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	41.8	110	50-150	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	38.9	102	50-150	
18O2 PFHxS	47.3	45.2	96	50-150	
13C4 PFHpA	50.0	48.4	97	50-150	
13C4 PFOA	50.0	47.8	96	50-150	
13C4 PFOS	47.8	44.9	94	50-150	
13C5 PFNA	50.0	49.5	99	50-150	
13C4 PFBA	50.0	49.9	100	25-150	
13C2 PFHxA	50.0	49.6	99	50-150	
13C2 PFDA	50.0	51.2	102	50-150	
13C2 PFUnA	50.0	44.4	89	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: PA210521C03.d

Lab ID: LCS 200-167147/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFDoA	50.0	41.2	82	50-150	
13C8 FOSA	50.0	34.1	68	25-150	
13C5 PFPeA	50.0	49.9	100	25-150	
13C2 PFTeDA	50.0	39.9	80	50-150	
d3-NMeFOSAA	50.0	48.7	97	50-150	
d5-NEtFOSAA	50.0	47.2	94	50-150	
M2-6:2 FTS	47.5	45.4	96	25-150	
M2-8:2 FTS	47.9	50.4	105	25-150	
13C3 PFBS	46.5	43.3	93	50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: PA210521C04.d

Lab ID: LCSD 200-167147/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	40.0	41.7	104	0	30	50-150	
Perfluoropentanoic acid (PFPeA)	40.0	44.7	112	6	30	50-150	
Perfluorohexanoic acid (PFHxA)	40.0	42.1	105	3	20	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	41.5	104	2	20	70-130	
Perfluorooctanoic acid (PFOA)	40.0	44.0	110	3	20	70-130	
Perfluorononanoic acid (PFNA)	40.0	42.1	105	4	20	70-130	
Perfluorodecanoic acid (PFDA)	40.0	43.6	109	12	20	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	42.2	105	8	20	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	43.0	108	2	20	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	41.1	103	1	20	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	43.5	109	4	20	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	37.1	105	4	20	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	39.2	108	3	20	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	39.8	104	0	30	50-150	
Perfluorooctanesulfonic acid (PFOS)	37.1	38.6	104	5	20	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	38.6	100	3	30	50-150	
Perfluorooctanesulfonamide (PFOSA)	40.0	43.5	109	5	30	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	43.4	109	9	20	70-130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	43.8	109	11	20	70-130	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	40.8	108	2	30	50-150	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	39.6	103	2	30	50-150	
18O2 PFHxS	47.3	45.3	96			50-150	
13C4 PFHpA	50.0	49.4	99			50-150	
13C4 PFOA	50.0	50.3	101			50-150	
13C4 PFOS	47.8	47.6	100			50-150	
13C5 PFNA	50.0	49.3	99			50-150	
13C4 PFBA	50.0	51.0	102			25-150	
13C2 PFHxA	50.0	50.4	101			50-150	
13C2 PFDA	50.0	51.3	103			50-150	
13C2 PFUnA	50.0	49.3	99			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: PA210521C04.d

Lab ID: LCSD 200-167147/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFDoA	50.0	44.1	88			50-150	
13C8 FOSA	50.0	37.2	74			25-150	
13C5 PFPeA	50.0	50.3	101			25-150	
13C2 PFTeDA	50.0	43.3	87			50-150	
d3-NMeFOSAA	50.0	52.0	104			50-150	
d5-NEtFOSAA	50.0	49.1	98			50-150	
M2-6:2 FTS	47.5	45.5	96			25-150	
M2-8:2 FTS	47.9	51.0	106			25-150	
13C3 PFBS	46.5	45.4	98			50-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab File ID: PA210521C02.d Lab Sample ID: MB 200-167147/1-A
 Matrix: Water Date Extracted: 05/21/2021 11:52
 Instrument ID: LC812 Date Analyzed: 05/21/2021 22:45
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-167147/2-A	PA210521C03 .d	05/21/2021 22:53
	LCSD 200-167147/3-A	PA210521C04 .d	05/21/2021 23:01
MW-26S	200-58440-1	PA210521C05 .d	05/21/2021 23:10
MW-25S	200-58440-2	PA210521C06 .d	05/21/2021 23:18
MW-25S-D	200-58440-3	PA210521C07 .d	05/21/2021 23:26
DGC-4S	200-58440-4	PA210521C08 .d	05/21/2021 23:35
FIELD BLANK	200-58440-5	PA210521C09 .d	05/21/2021 23:43

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Sample No.: ICIS 200-167122/5 Date Analyzed: 05/20/2021 17:20
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA210520ICAL05.d Heated Purge: (Y/N) N
 Calibration ID: 45872

	13PFOA		#	RT #	#	RT #
	AREA #	RT #				
INITIAL CALIBRATION MID-POINT	1307398	3.52				
UPPER LIMIT	1961097	3.72				
LOWER LIMIT	653699	3.32				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICB 200-167122/8		1394610	3.62			
ICV 200-167122/9		1441750	3.52			
CCVL 200-167169/2		1193456	3.52			
CCVIS 200-167169/3		1237077	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
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Sample No.: CCVIS 200-167169/3 Date Analyzed: 05/21/2021 16:24
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA210521AAA03.d Heated Purge: (Y/N) N
 Calibration ID: 45872

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		1237077	3.52				
UPPER LIMIT		1855616	3.72				
LOWER LIMIT		618539	3.32				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-167173/1		1280628	3.52				
MB 200-167147/1-A		1368909	3.51				
LCS 200-167147/2-A		1268035	3.51				
LCSD 200-167147/3-A		1245813	3.52				
200-58440-1	MW-26S	1255833	3.52				
200-58440-2	MW-25S	1303694	3.52				
200-58440-3	MW-25S-D	1347894	3.52				
200-58440-4	DGC-4S	1284392	3.51				
200-58440-5	FIELD BLANK	1267430	3.51				
CCV 200-167173/15		1292520	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 I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: MW-26S Lab Sample ID: 200-58440-1
 Matrix: Water Lab File ID: PA210521C05.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 16:20
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 301.8 (mL) Date Analyzed: 05/21/2021 23:10
 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.: 167173 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	9.2		4.1	0.74
2706-90-3	Perfluoropentanoic acid (PFPeA)	4.2		1.7	0.39
307-24-4	Perfluorohexanoic acid (PFHxA)	2.6		1.7	0.37
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.48	J	1.7	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	0.61	J	1.7	0.35
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.23
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.25
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.28
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.32
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.36
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.52
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.3		1.7	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.25
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.24
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.25
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.75
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.62
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.91
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.32

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: MW-26S Lab Sample ID: 200-58440-1
 Matrix: Water Lab File ID: PA210521C05.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 16:20
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 301.8 (mL) Date Analyzed: 05/21/2021 23:10
 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.: 167173 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	95		50-150
STL01892	13C4 PFHpA	93		50-150
STL00990	13C4 PFOA	95		50-150
STL00991	13C4 PFOS	86		50-150
STL00995	13C5 PFNA	93		50-150
STL00992	13C4 PFBA	90		25-150
STL00993	13C2 PFHxA	97		50-150
STL00996	13C2 PFDA	84		50-150
STL00997	13C2 PFUnA	77		50-150
STL00998	13C2 PFDoA	75		50-150
STL01056	13C8 FOSA	74		25-150
STL01893	13C5 PFPeA	91		25-150
STL02116	13C2 PFTeDA	76		50-150
STL02118	d3-NMeFOSAA	79		50-150
STL02117	d5-NEtFOSAA	77		50-150
STL02279	M2-6:2 FTS	100		25-150
STL02280	M2-8:2 FTS	92		25-150
STL02337	13C3 PFBS	92		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
 Lims ID: 200-58440-B-1-A
 Client ID: MW-26S
 Sample Type: Client
 Inject. Date: 21-May-2021 23:10:08 ALS Bottle#: 32 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 200-58440-B-1-A
 Misc. Info.: 200-0046090-005 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 09:56:02
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.091	2.091	0.0	0.594	1409429	1.12	89.5	10180	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.100	-0.009	1.000	291752	0.2768		55.1		M
D 3 13C5 PFPeA	267.90 > 223.00	2.413	2.426	-0.013	0.686	1042983	1.14	91.2	2291	
4 Perfluoropentanoic acid	262.90 > 219.00	2.413	2.426	-0.013	1.000	105825	0.1255		6.6	
D 47 13C3 PFBS	301.90 > 80.00	2.439	2.439	0.0	0.693	1224483	1.07	92.1	92862	M
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.439	2.439	0.0	1.000	107183	0.0988	Target=2.19	17.5	
298.90 > 99.00	2.439	2.439	0.0	1.000	48081		2.23(1.09-3.28)	20.2		
D 7 13C2 PFHxA	315.00 > 270.00	2.782	2.782	0.0	0.791	1199409	1.21	96.6	3769	
6 Perfluorohexanoic acid	313.00 > 269.00	2.782	2.782	0.0	1.000	76477	0.0787	Target=12.12	8.6	M
313.00 > 119.00	2.782	2.782	0.0	1.000	6826		11.20(6.06-18.18)	15.3		M
D 11 18O2 PFHxS	403.00 > 84.00	3.154	3.154	0.0	0.896	993379	1.12	94.6	2151	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	3.143	3.154	-0.011	0.997	6848	0.007353	Target=4.23	6.2	M
399.00 > 99.00	3.154	3.154	0.0	1.000	2288		2.99(2.12-6.35)	2.3		M
D 9 13C4 PFHpA	367.00 > 322.00	3.154	3.154	0.0	0.896	1157586	1.17	93.3	3764	M
10 Perfluoroheptanoic acid	363.00 > 319.00	3.154	3.164	-0.010	1.000	13653	0.0146	Target=3.49	2.9	M
363.00 > 169.00	3.154	3.164	-0.010	1.000	3897		3.50(1.75-5.24)	9.5		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.492	3.510	-0.018	0.910	1175	0.001708	Target=6.21	3.5		RM
449.00 > 99.00	3.483	3.510	-0.027	0.908	82		14.33(3.10-9.31)	0.5		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.501	3.510	-0.009	0.995	139386	1.19		99.8	207	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.501	3.510	-0.009	1.000	916	0.008699		19.1		M
D 14 13C4 PFOA										
417.00 > 372.00	3.510	3.519	-0.009	0.997	1192598	1.19		94.9	2828	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1255833	1.25		197		
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.003	18057	0.0184	Target=2.53	3.3		M
413.00 > 169.00	3.420	3.519	-0.099	0.974	7241		2.49(1.27-3.80)	11.5		M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	661636	1.03		86.4	1795	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	3995	0.006702	Target=6.09	2.3		RM
499.00 > 99.00	3.825	3.836	-0.011	0.997	1798		2.22(3.04-9.13)	3.0		M
D 19 13C5 PFNA										
468.00 > 423.00	3.847	3.858	-0.011	1.093	1073609	1.16		92.7	3010	
D 23 13C2 PFDA										
515.00 > 470.00	4.149	4.160	-0.011	1.179	855958	1.05		84.3	1511	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.149	4.160	-0.011	1.000	2526	0.003525	Target=7.79	2.5		M
513.00 > 169.00	4.160	4.160	0.0	1.003	320		7.89(3.90-11.69)	2.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.171	-0.011	1.182	133178	1.10		92.2	609	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.171	-0.011	1.000	89	0.001595		3.1		M
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.225	0.0	1.201	1066367	0.9304		74.4	2608	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.225	-0.010	0.998	2548	0.003053		25.9		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.291	4.302	-0.011	1.219	54402	0.9898		79.2	690	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.291	4.302	-0.011	1.000	171	0.004469		1.8		M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.391	0.0	1.145	709	0.002029	Target=2.87	7.0		M
599.00 > 99.00	4.380	4.391	-0.011	1.142	352		2.01(1.44-4.31)	3.4		M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.413	4.424	-0.011	1.000	570	0.001154	Target=7.94	1.1		RM
563.00 > 169.00	4.413	4.424	-0.011	1.000	152		3.75(3.97-11.91)	2.1		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.424	-0.011	1.254	624284	0.9579		76.6	1807	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.424	4.434	-0.010	1.257	53289	0.9662		77.3	527	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.434	4.434	0.0	1.002	268	-0.003764			3.4	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.642	4.653	-0.011	1.319	640102	0.9387		75.1	2846	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.653	4.653	0.0	1.002	1390	0.002707	Target=5.94		0.8	M
613.00 > 169.00	4.642	4.653	-0.011	1.000	294		4.73(2.97-8.92)		6.6	M
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.856	4.867	-0.011	1.046	961	0.002321	Target=3.97		0.7	RM
663.00 > 169.00	4.845	4.867	-0.022	1.044	127		7.57(1.99-5.96)		2.6	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.063	-0.010	1.436	473195	0.9484		75.9	2698	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.034	5.063	-0.029	0.996	220	0.002842	Target=1.01		7.1	M
713.00 > 219.00	5.024	5.063	-0.039	0.994	168		1.31(0.51-1.52)		4.6	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d

Injection Date: 21-May-2021 23:10:08

Instrument ID: LC812

Lims ID: 200-58440-B-1-A

Lab Sample ID: 200-58440-1

Client ID: MW-26S

Operator ID: lc812tech

ALS Bottle#: 32

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

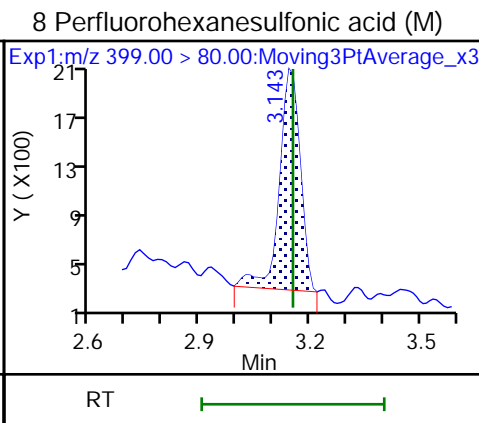
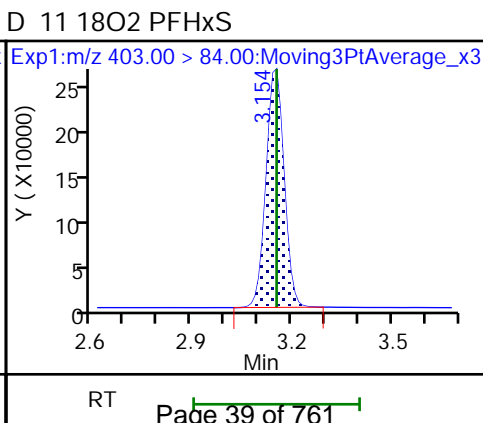
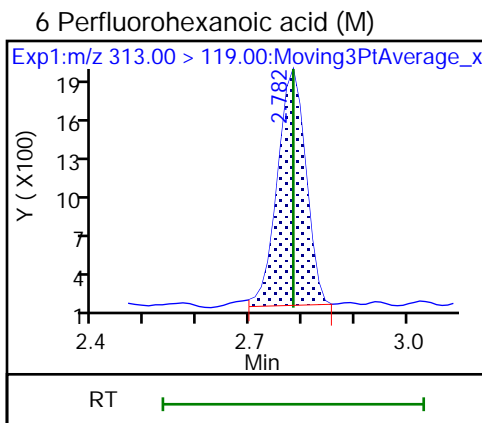
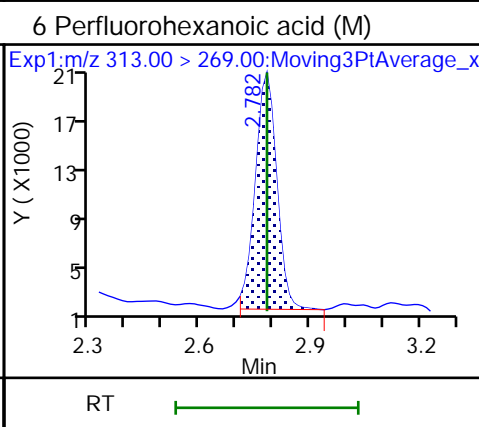
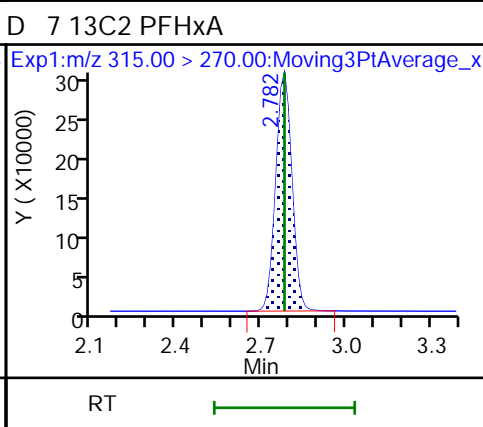
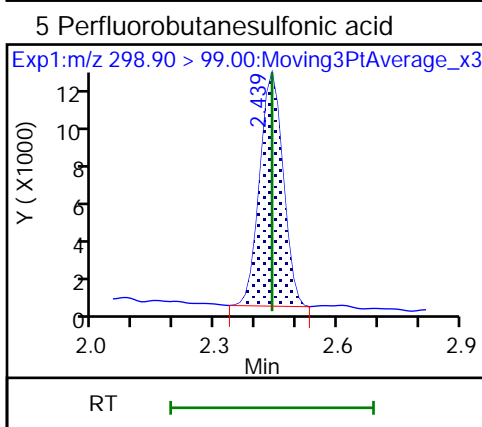
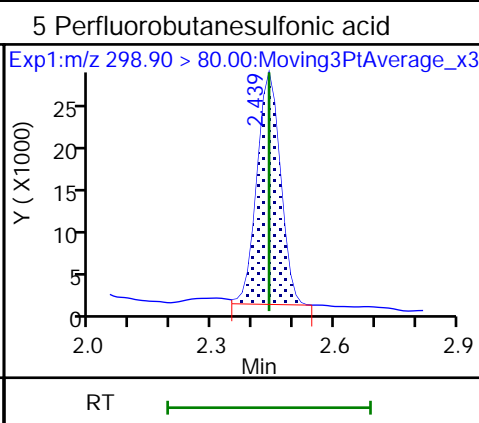
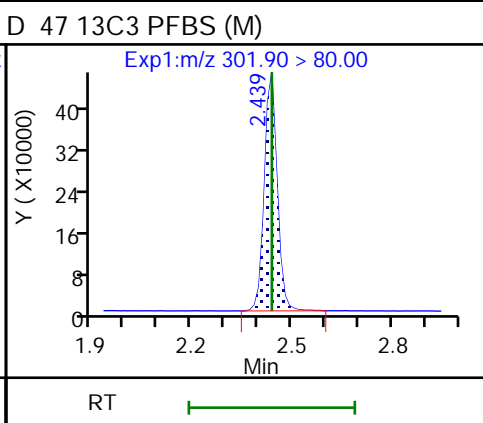
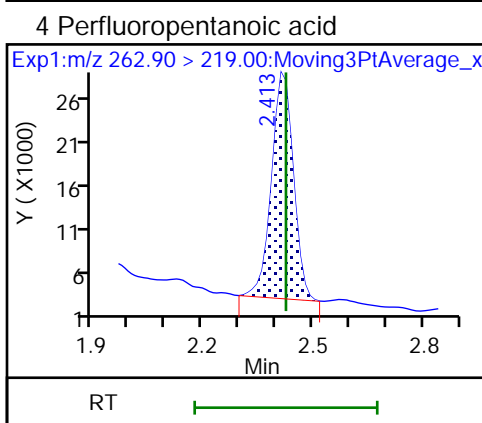
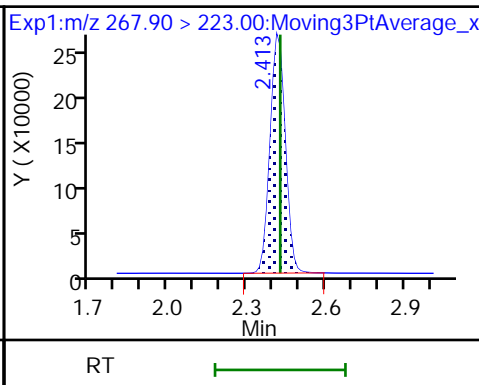
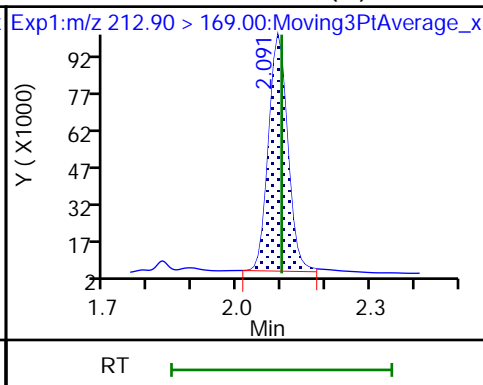
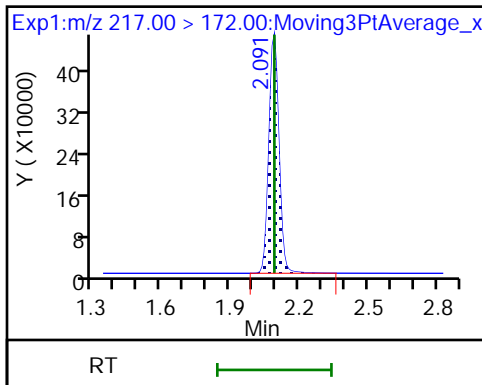
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

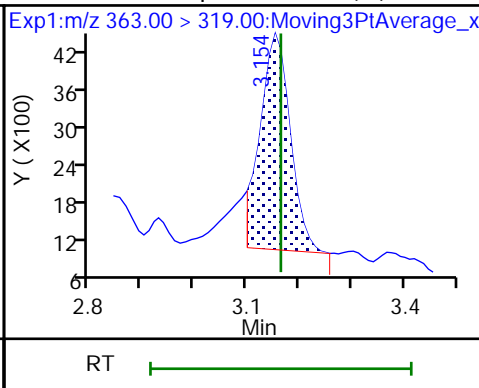
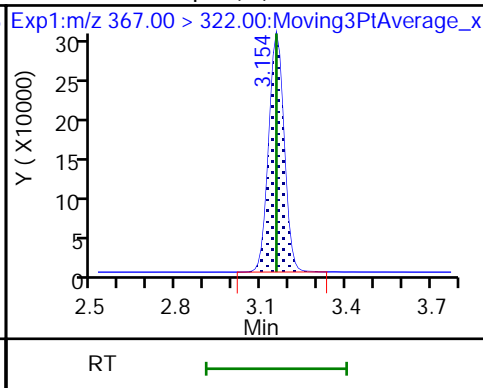
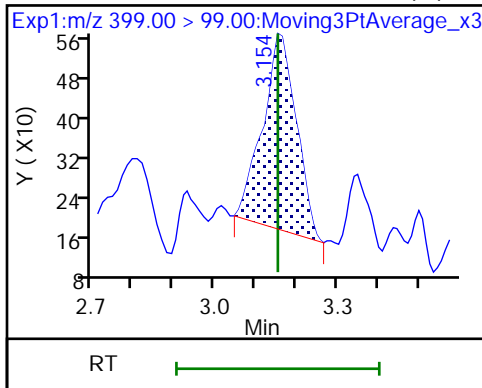
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA (M)

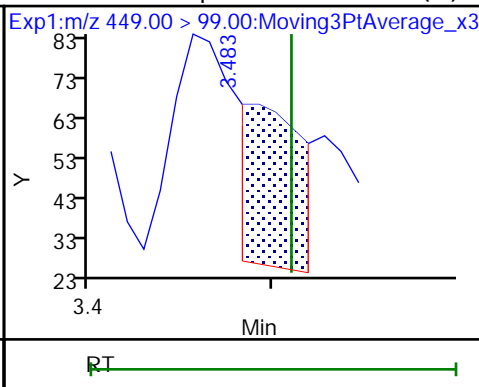
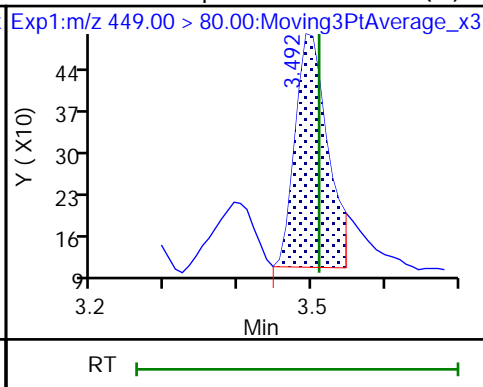
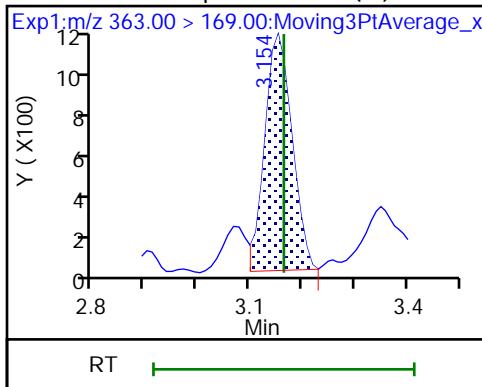
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (M)

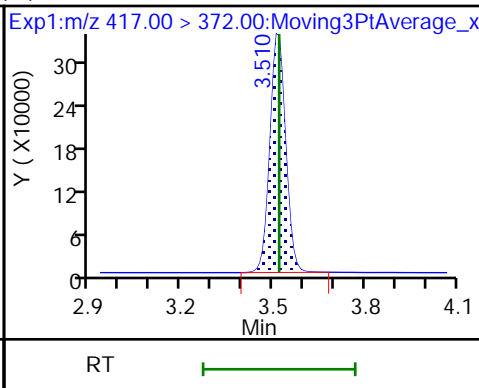
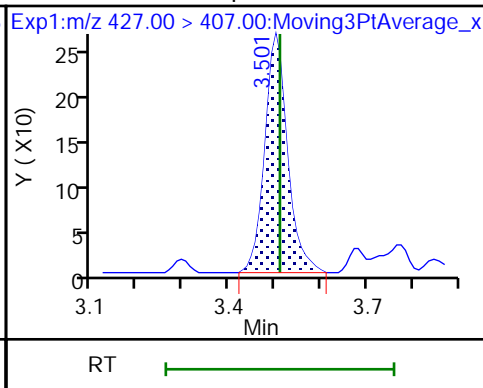
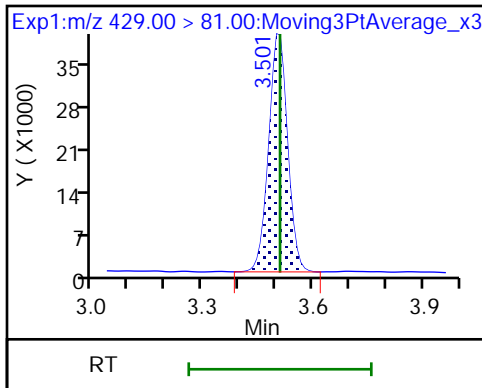
16 Perfluoroheptanesulfonic acid (M)



D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M)

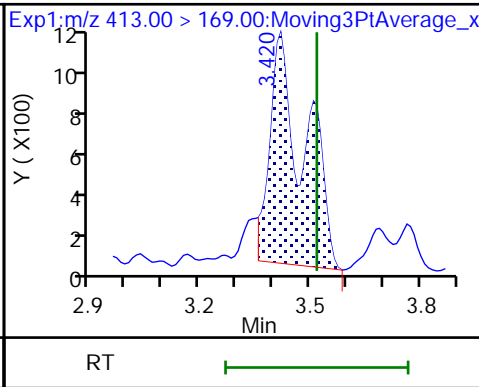
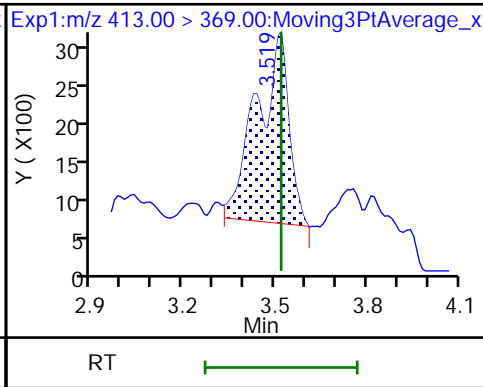
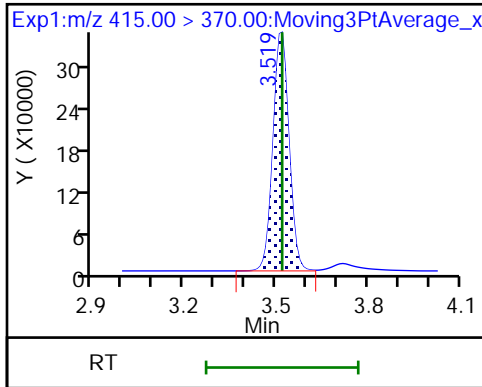
14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

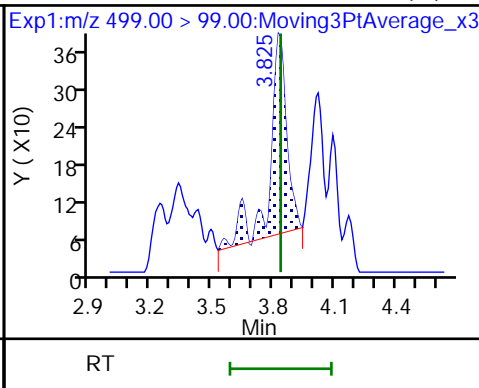
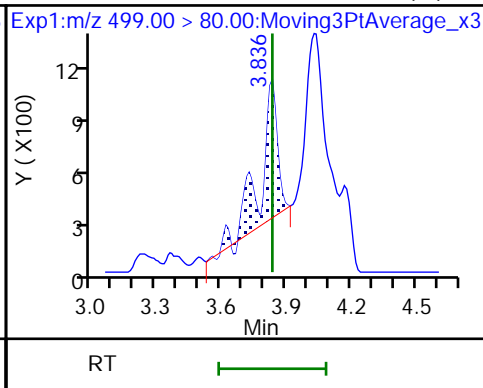
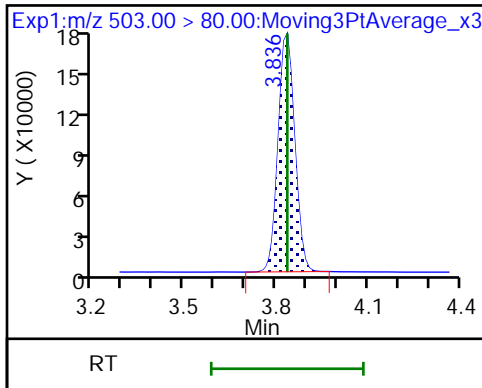
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

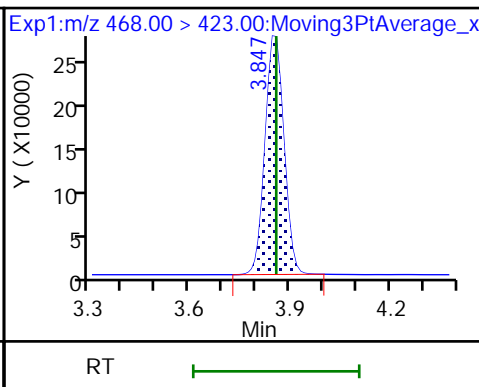
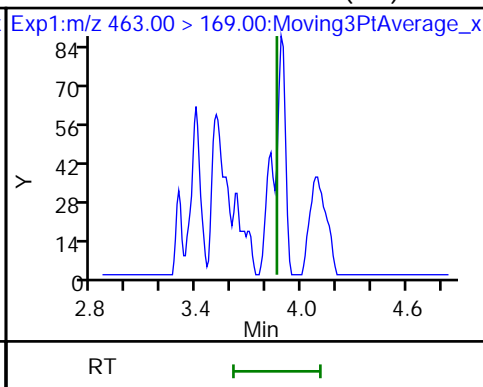
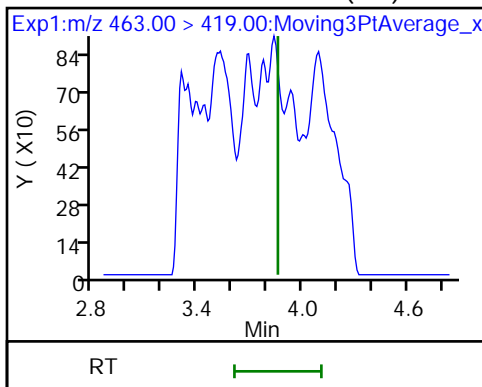
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (ND)

20 Perfluorononanoic acid (ND)

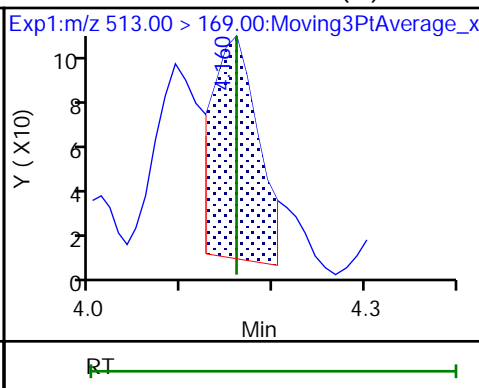
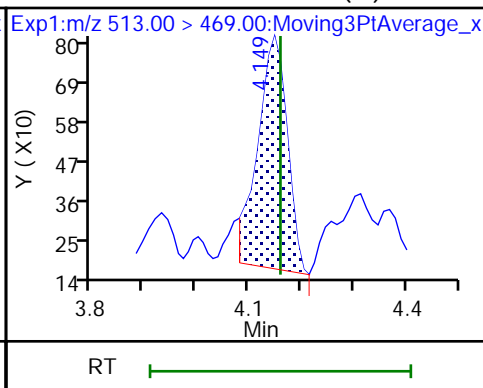
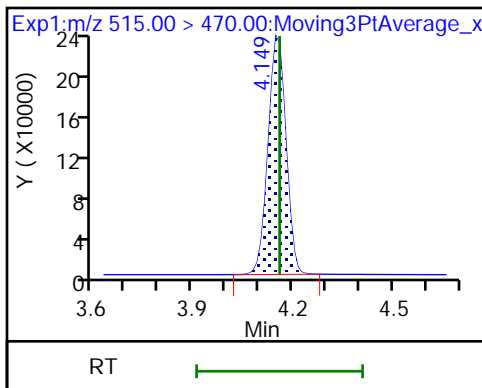
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

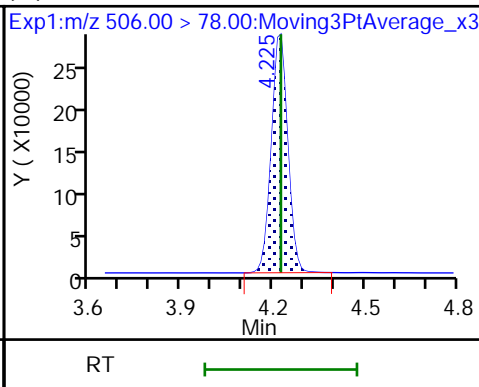
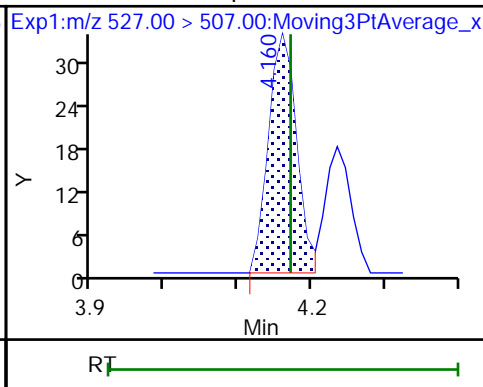
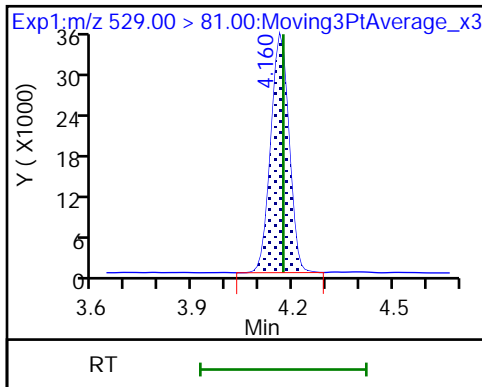
24 Perfluorodecanoic acid (M)

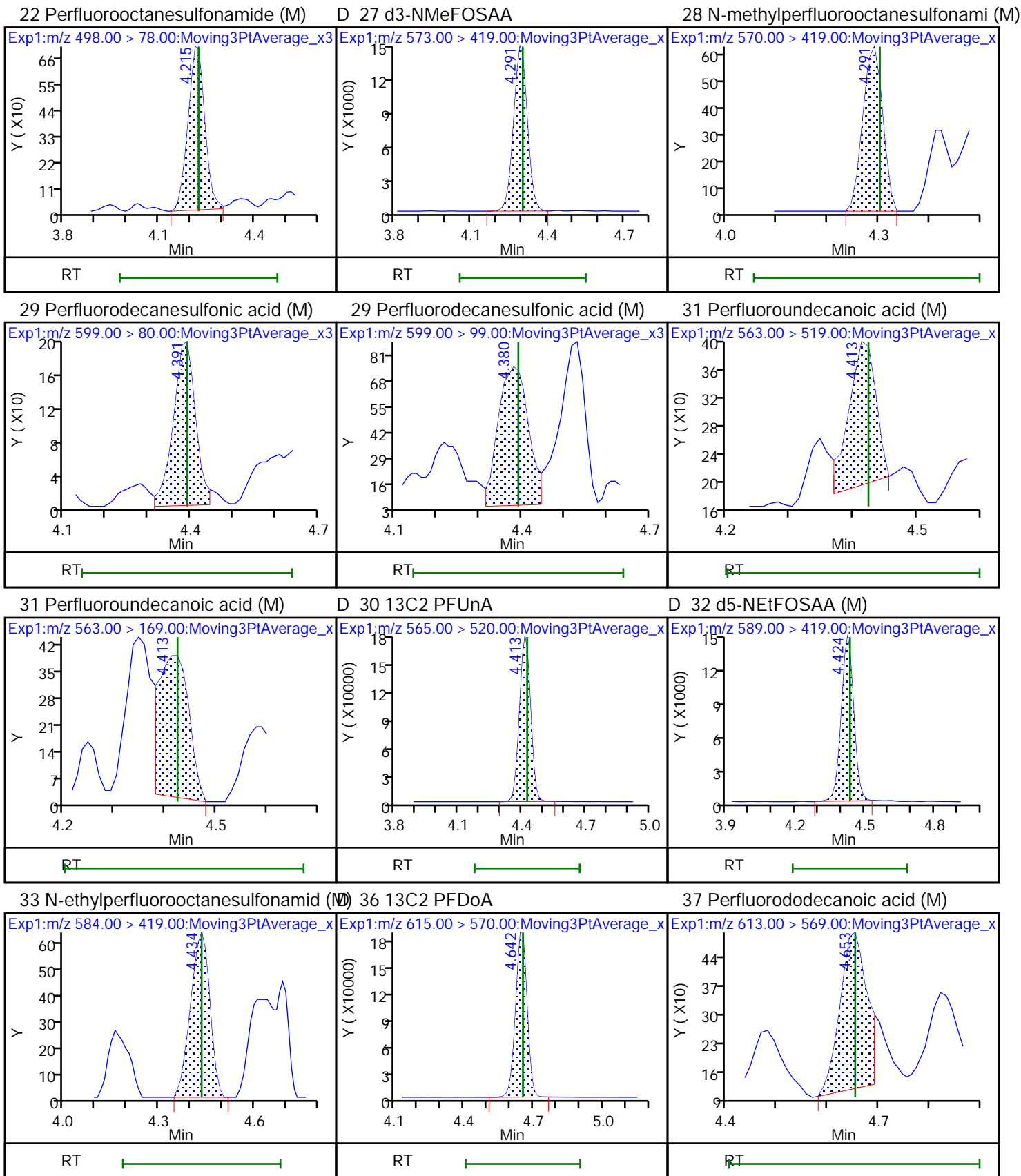


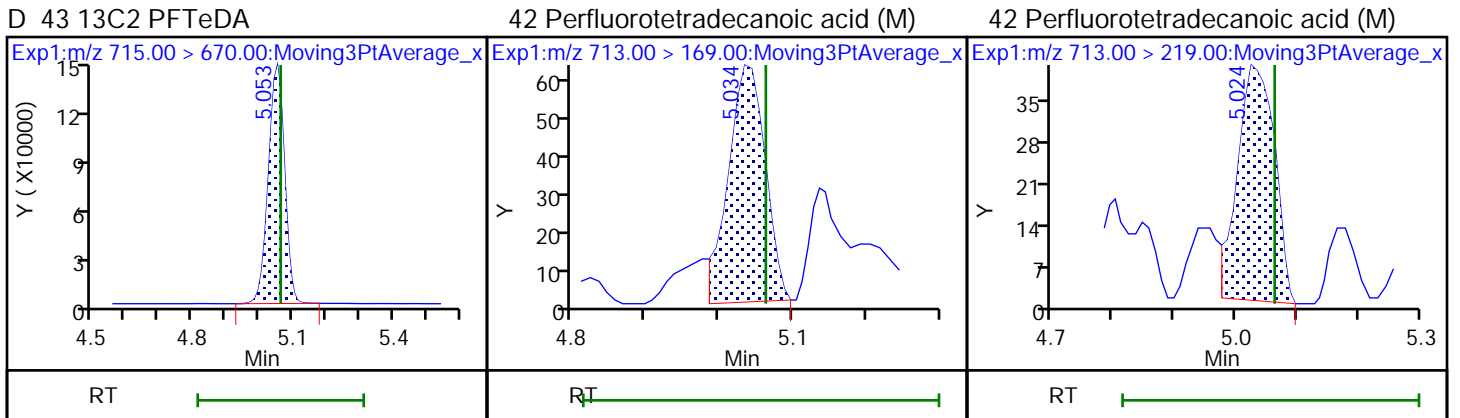
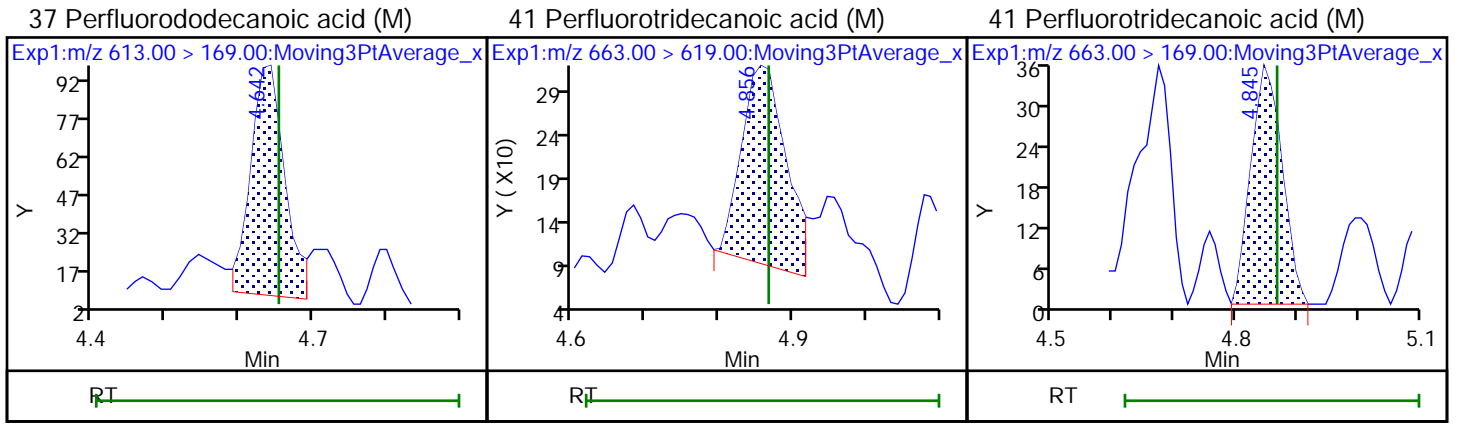
D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

D 21 13C8 FOSA







Eurofins TestAmerica, Burlington

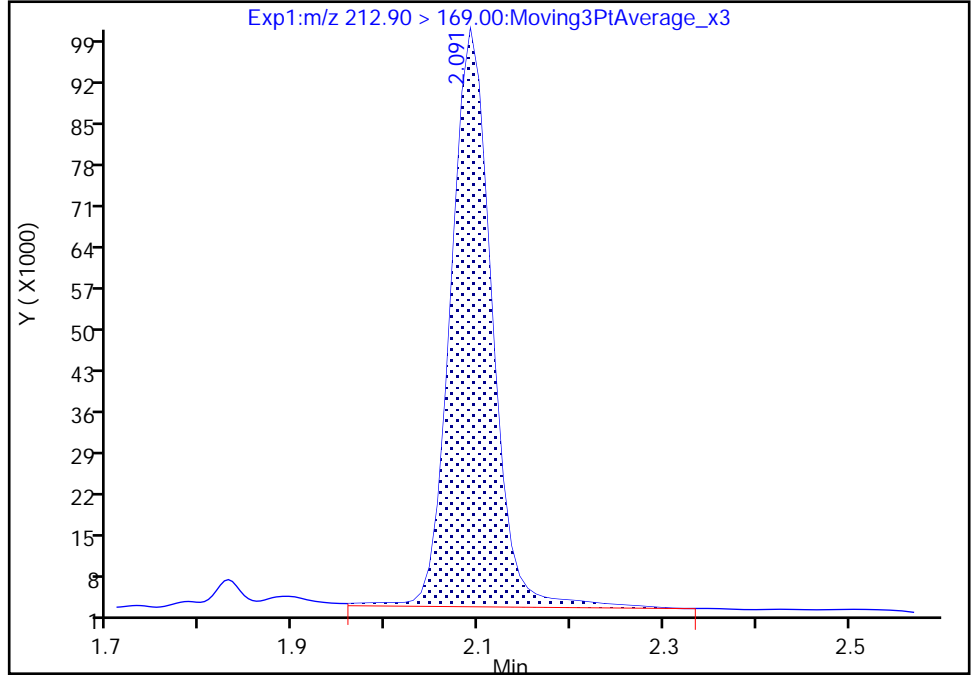
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Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

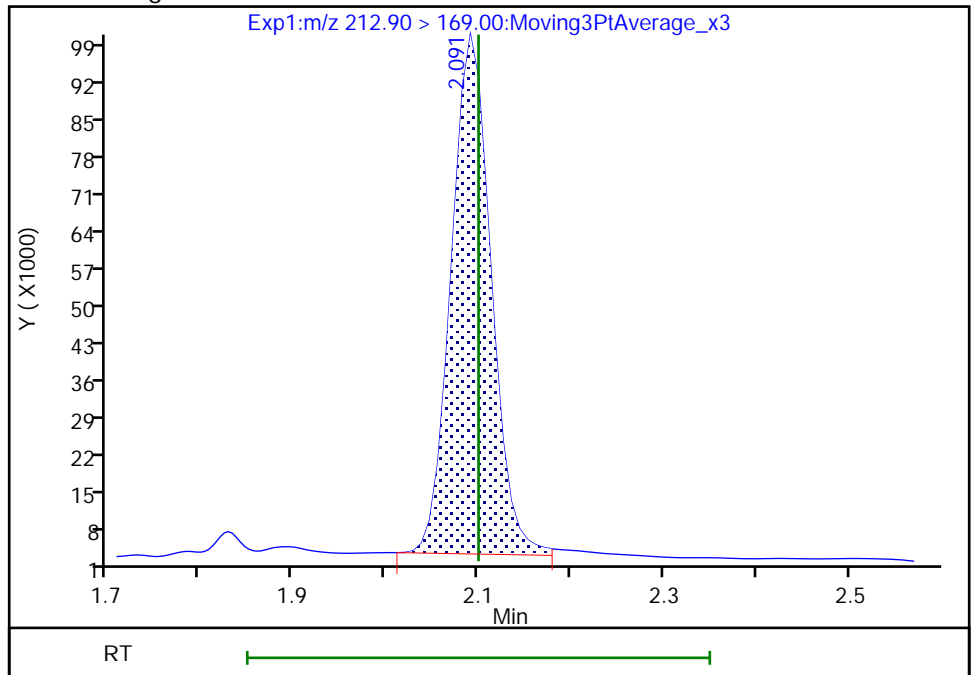
RT: 2.09
Area: 302814
Amount: 0.287262
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 291752
Amount: 0.276768
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

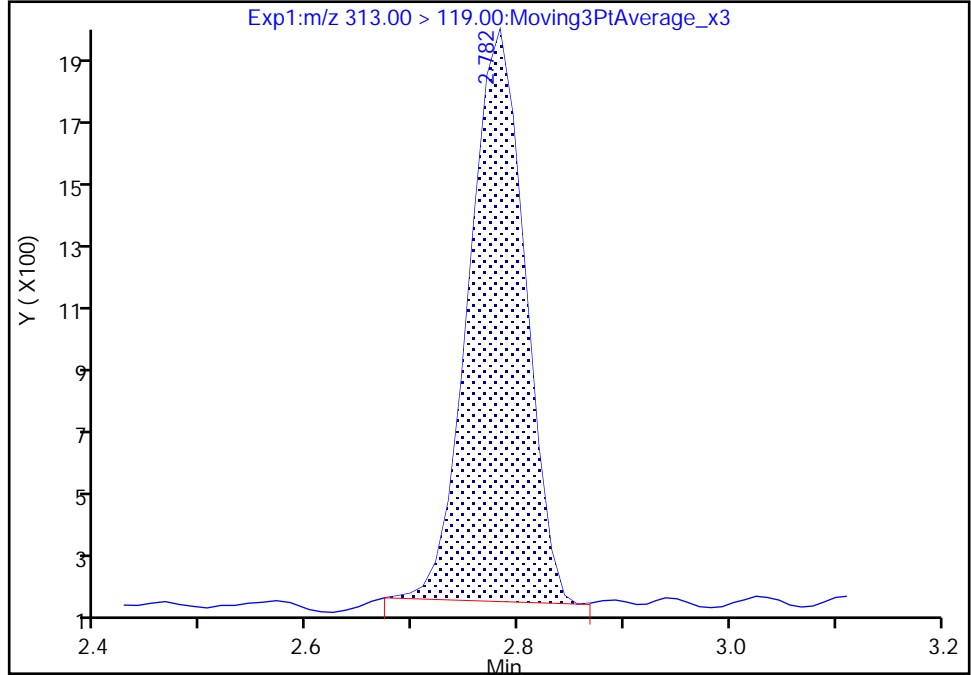
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

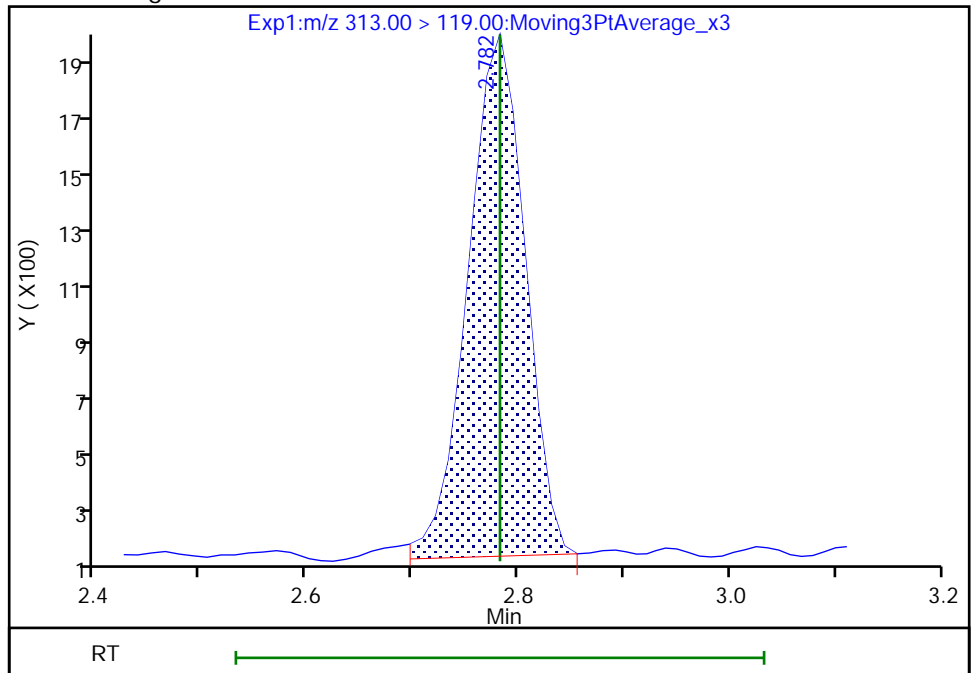
RT: 2.78
Area: 6669
Amount: 0.079818
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 6826
Amount: 0.078749
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:48:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

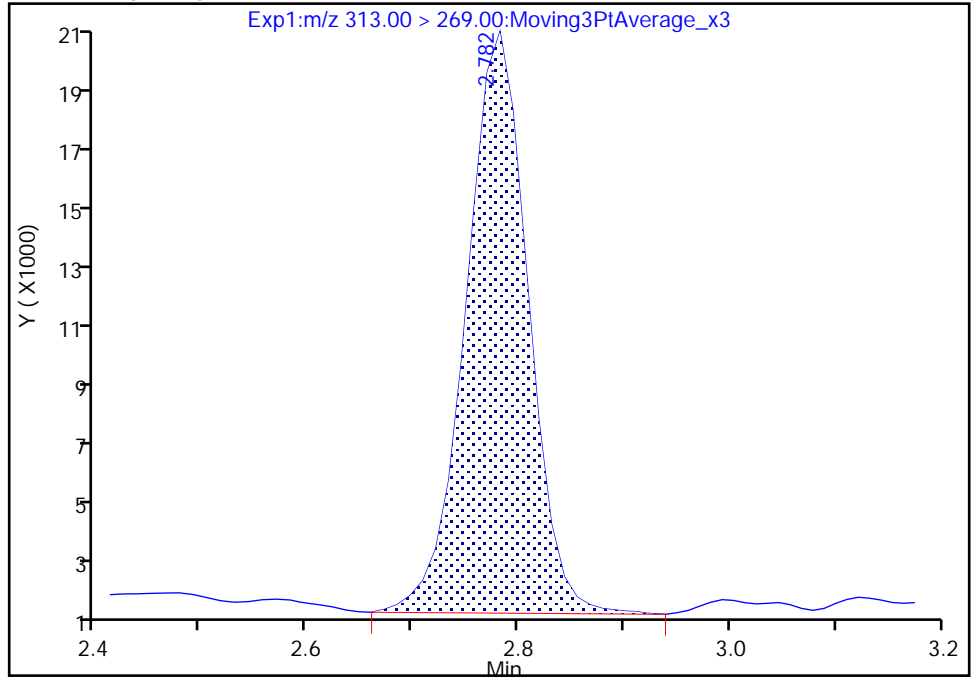
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Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

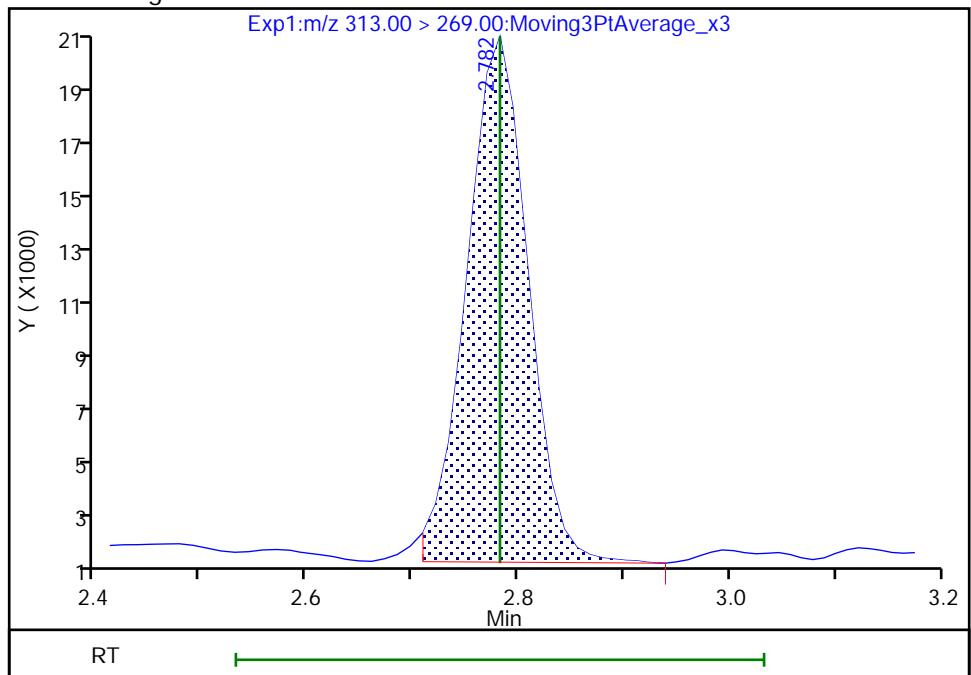
RT: 2.78
Area: 77515
Amount: 0.079818
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 76477
Amount: 0.078749
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

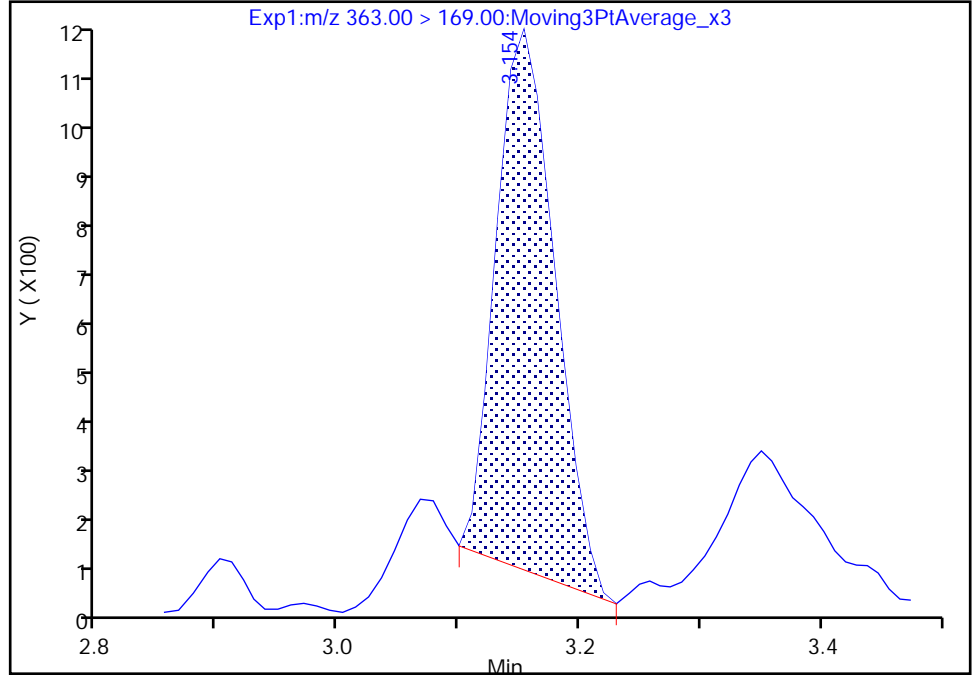
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

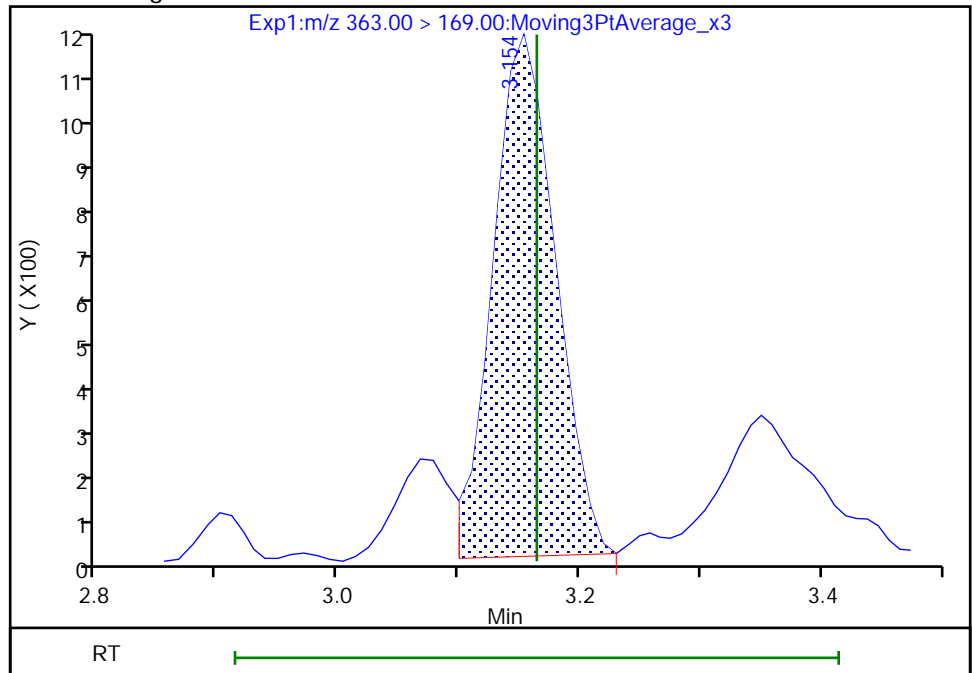
RT: 3.15
Area: 3433
Amount: 0.014322
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 3897
Amount: 0.014616
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:49:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

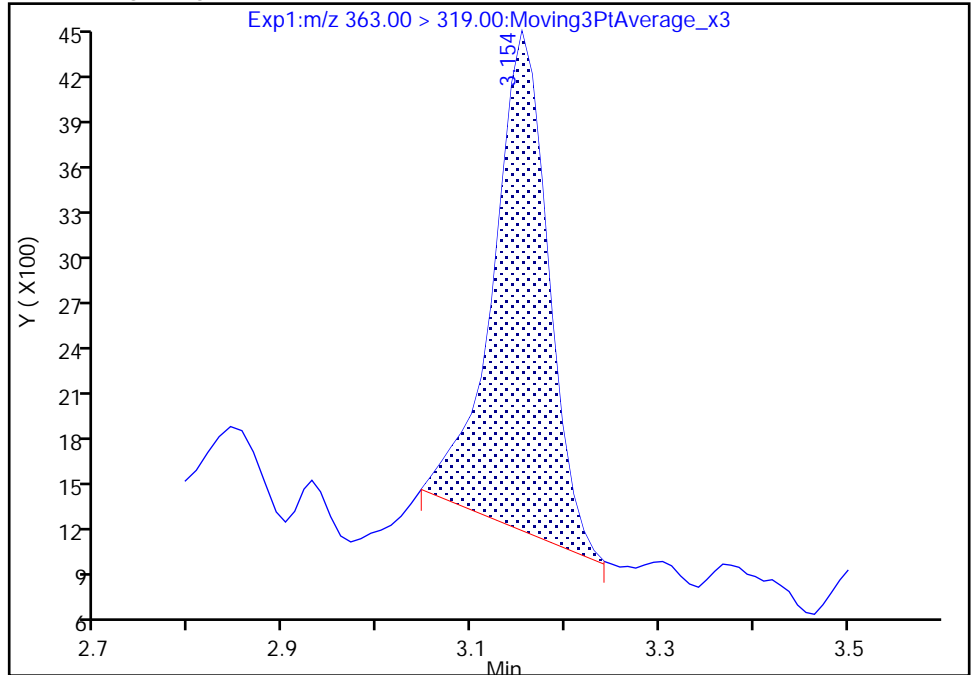
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

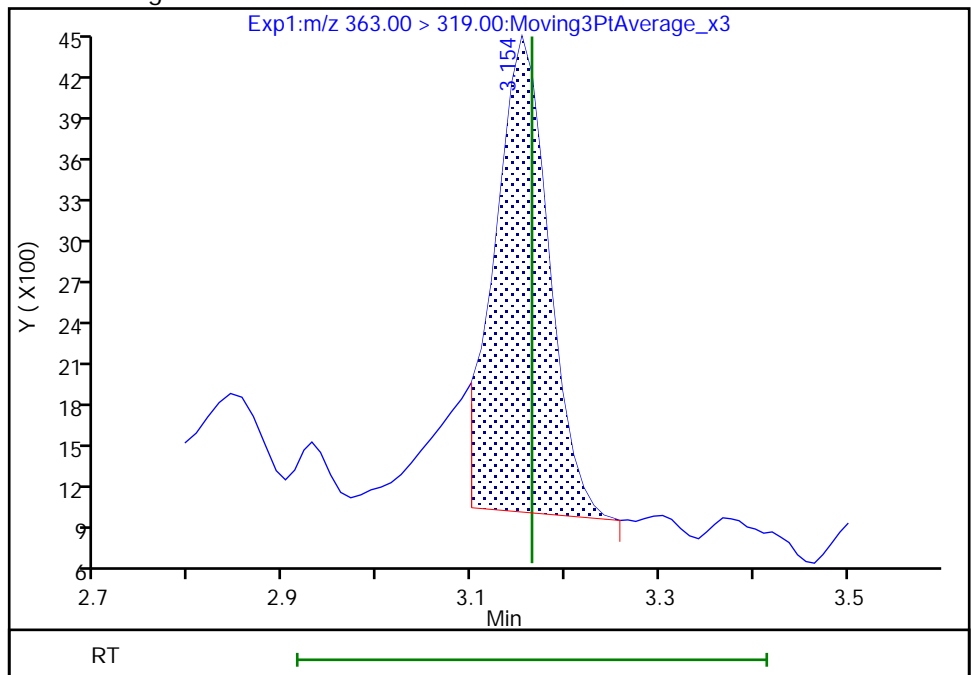
RT: 3.15
Area: 13378
Amount: 0.014322
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 13653
Amount: 0.014616
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:49:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

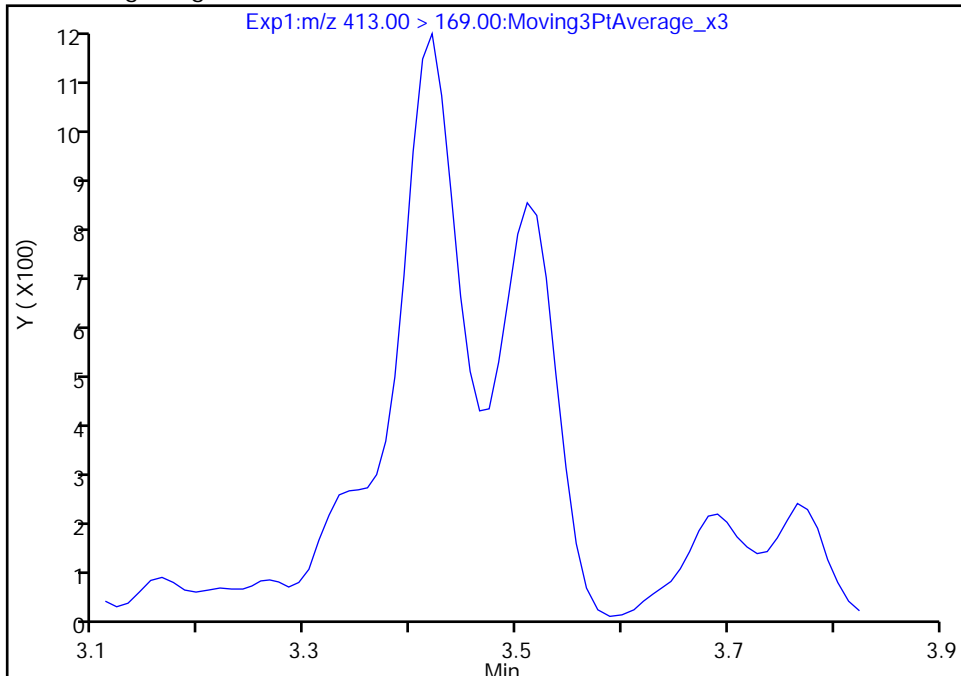
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

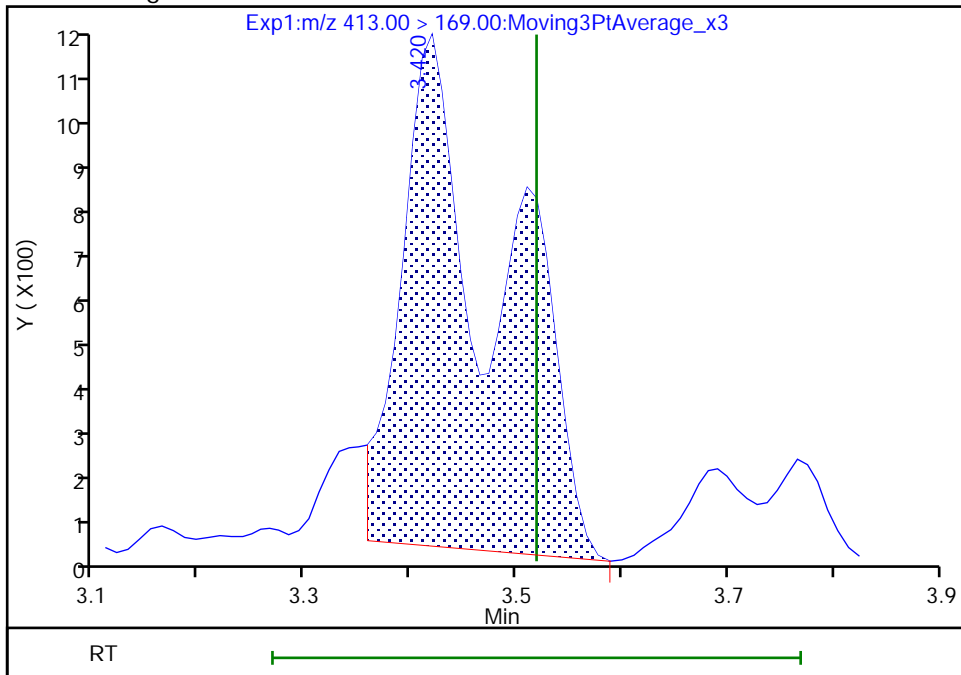
Not Detected
Expected RT: 3.52

Processing Integration Results



RT: 3.42
Area: 7241
Amount: 0.018425
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:50:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

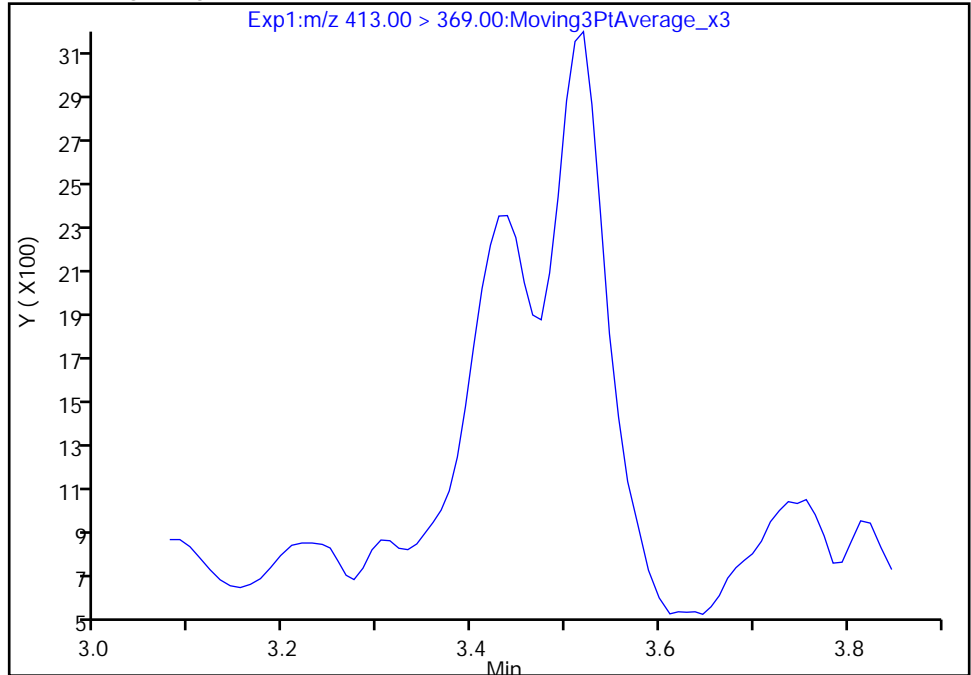
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Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

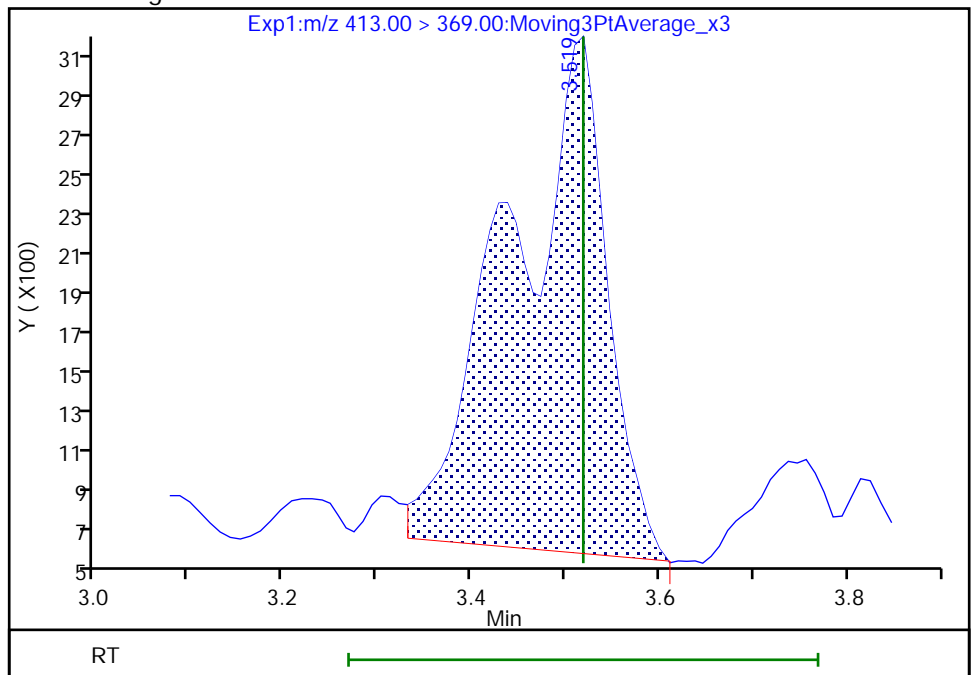
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 18057
Amount: 0.018425
Amount Units: ng/ml



Reviewer: deannd, 24-May-2021 16:27:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

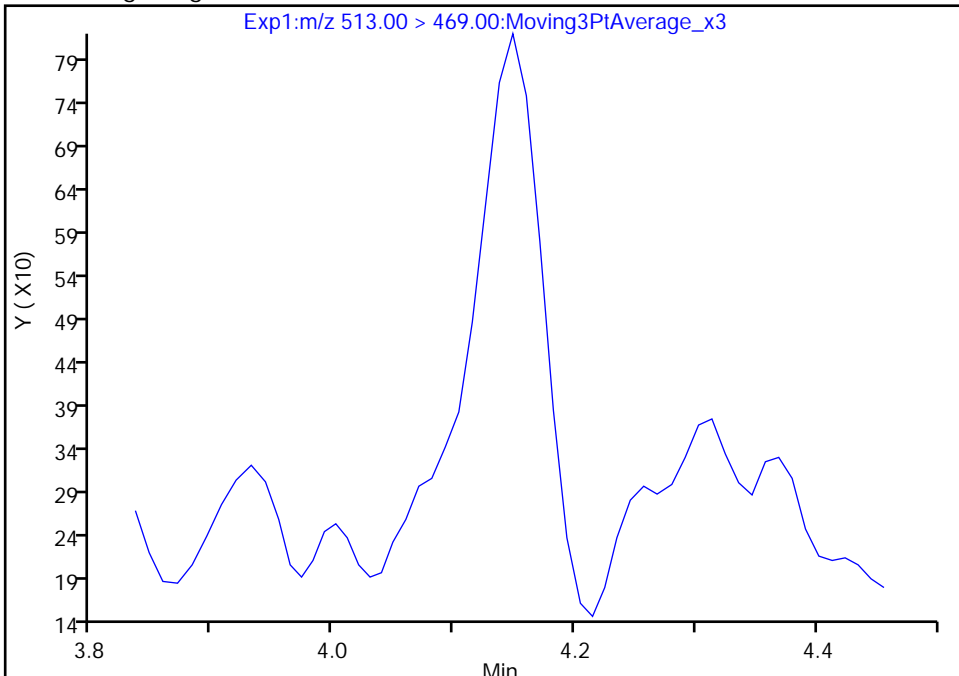
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

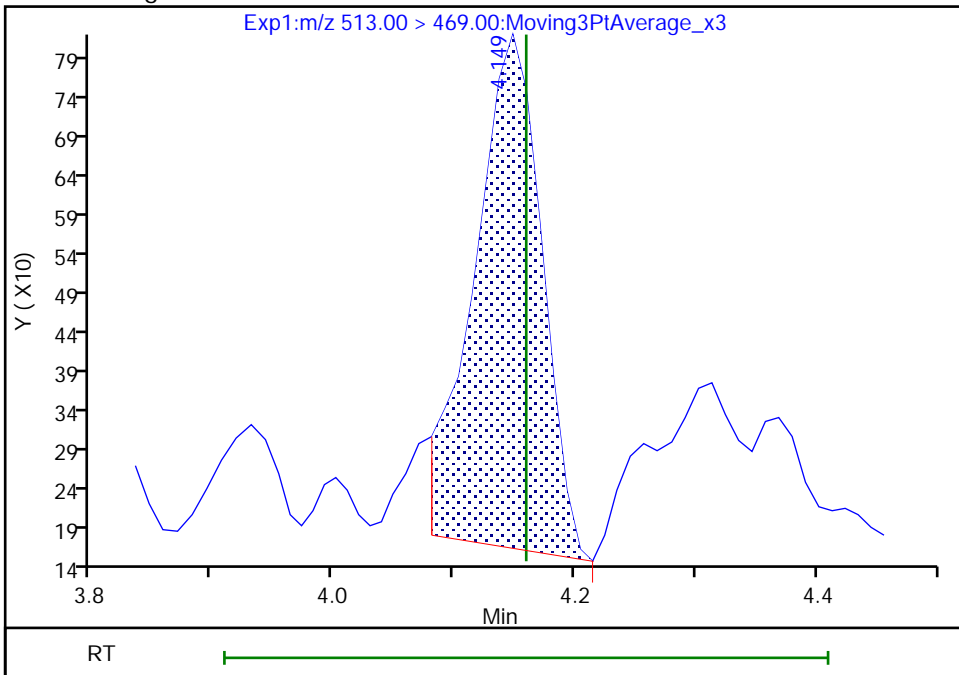
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 2526
Amount: 0.003525
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:53:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

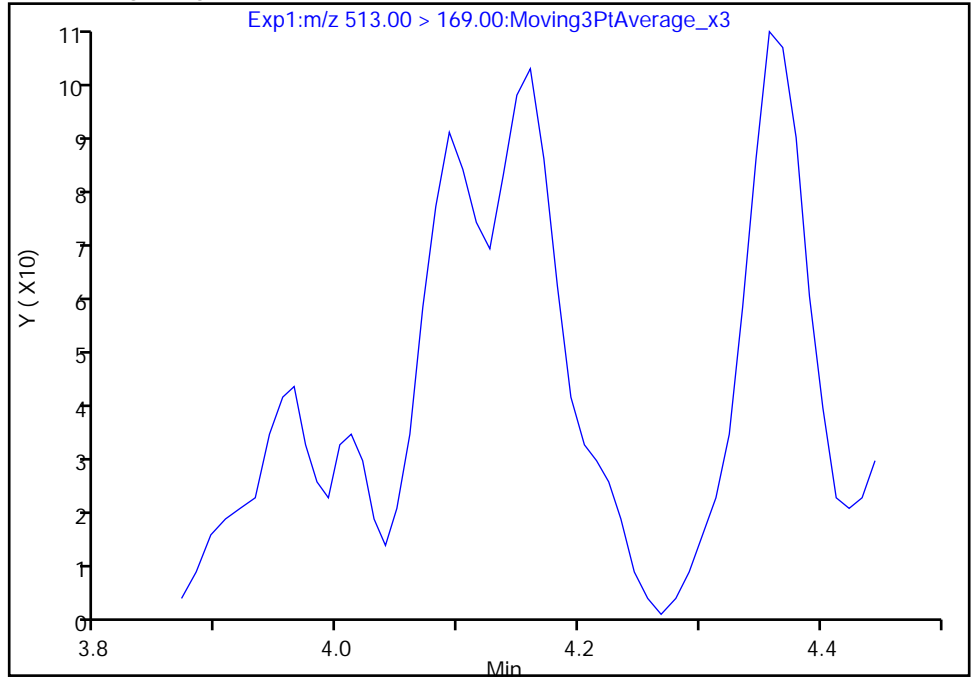
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

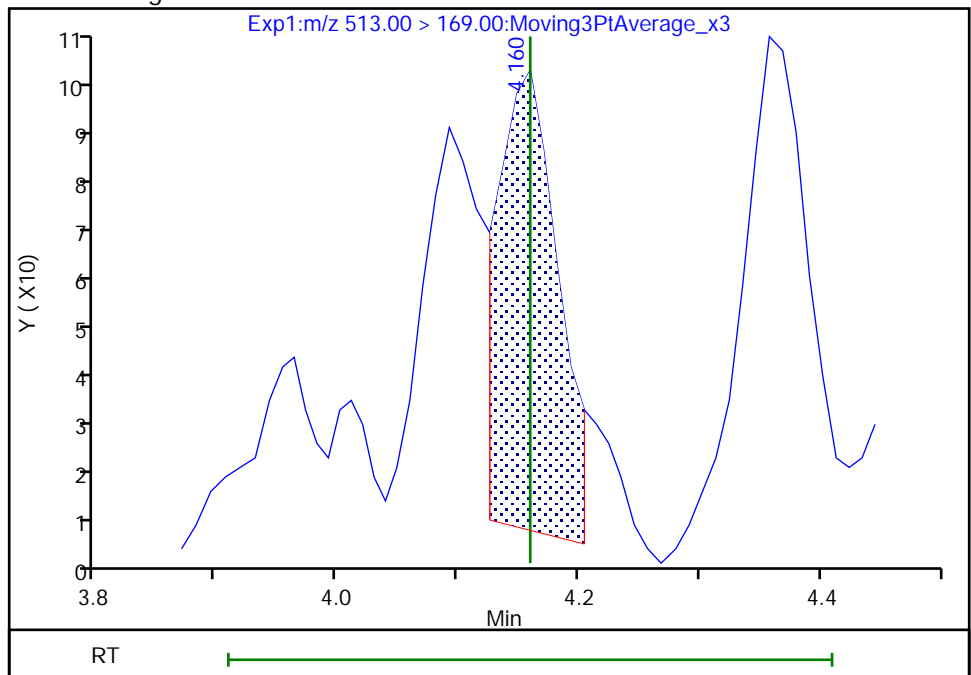
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 320
Amount: 0.003525
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

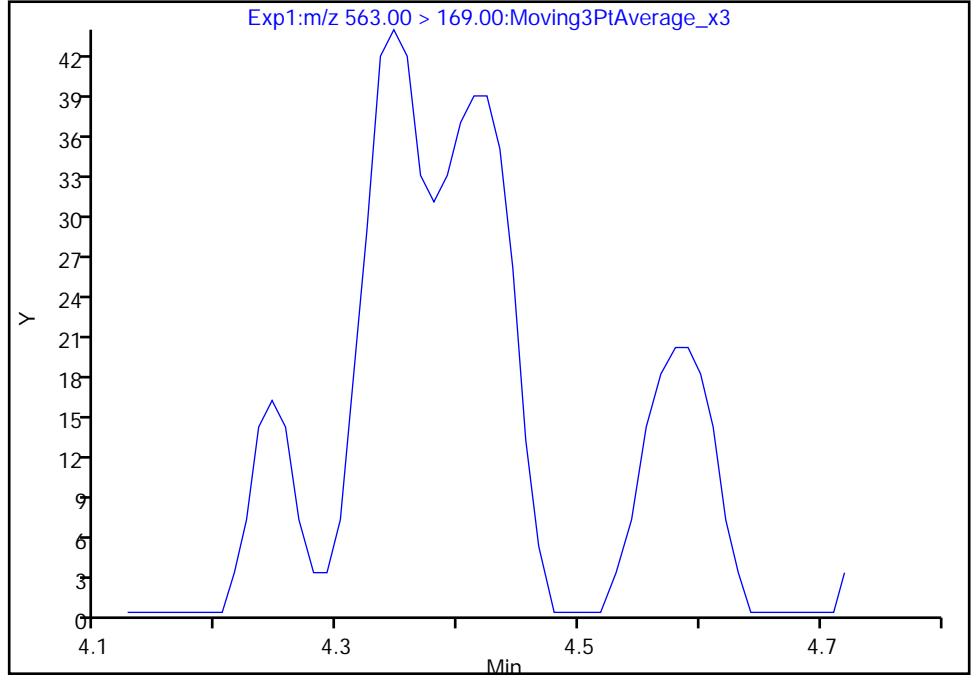
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

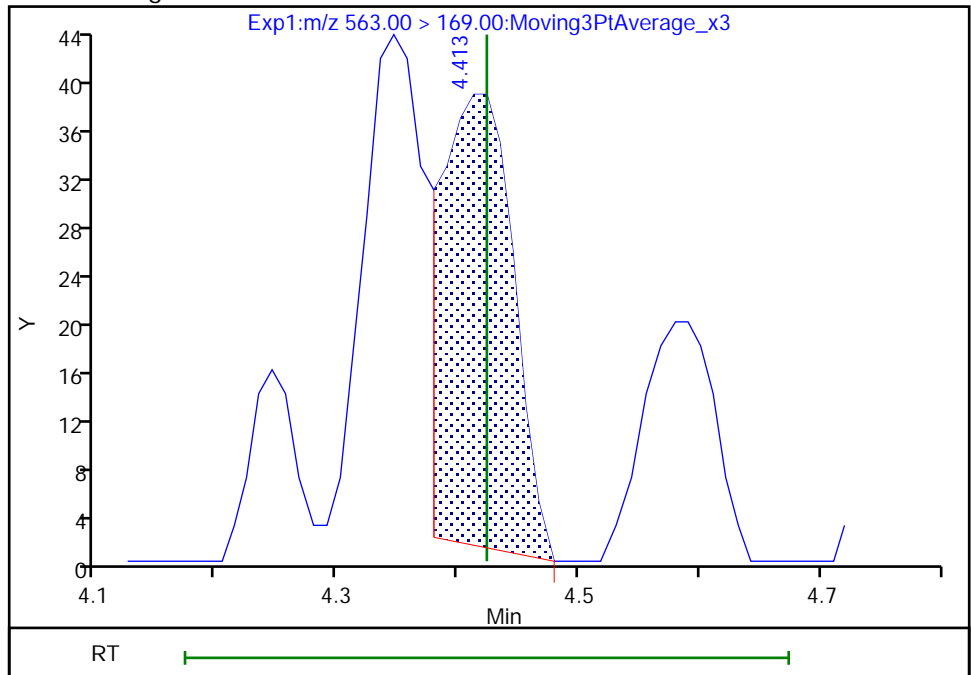
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 152
Amount: 0.001154
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:54:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

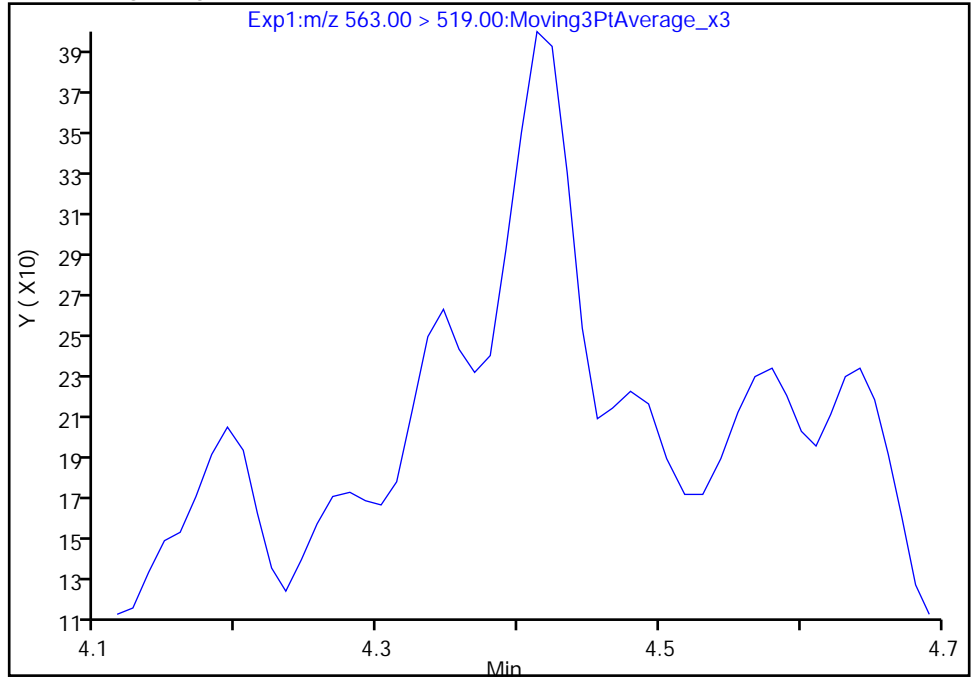
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

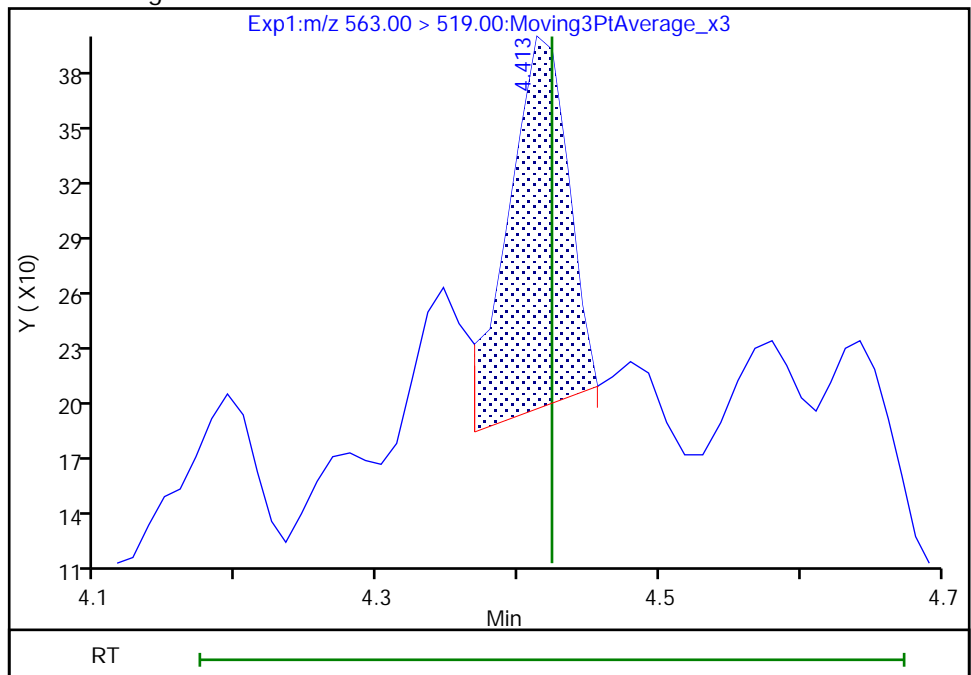
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 570
Amount: 0.001154
Amount Units: ng/ml



Euofins TestAmerica, Burlington

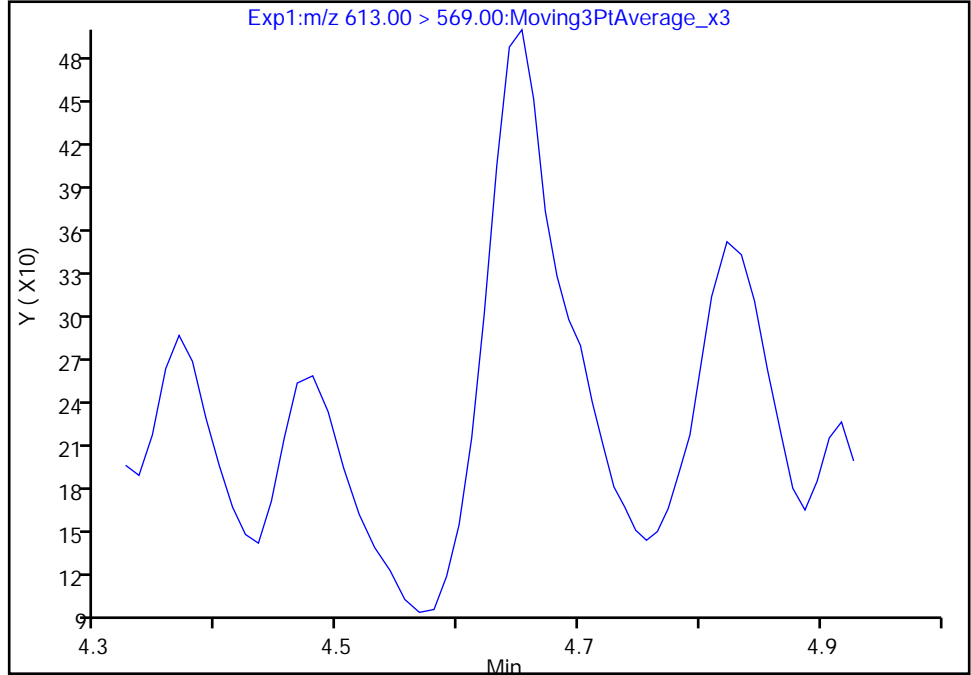
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

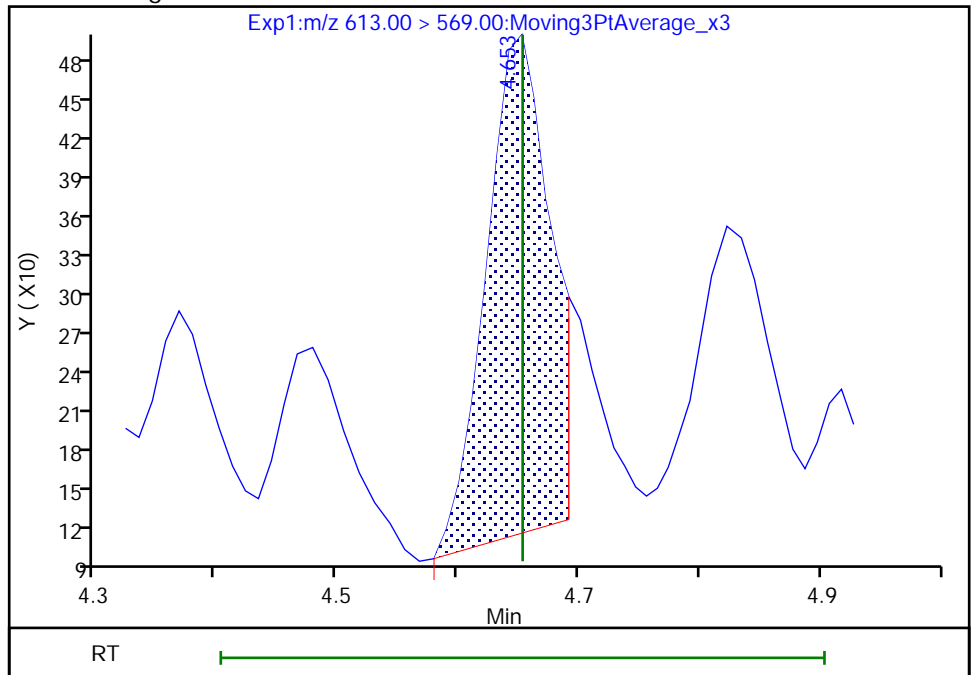
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.65
Area: 1390
Amount: 0.002707
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:55:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

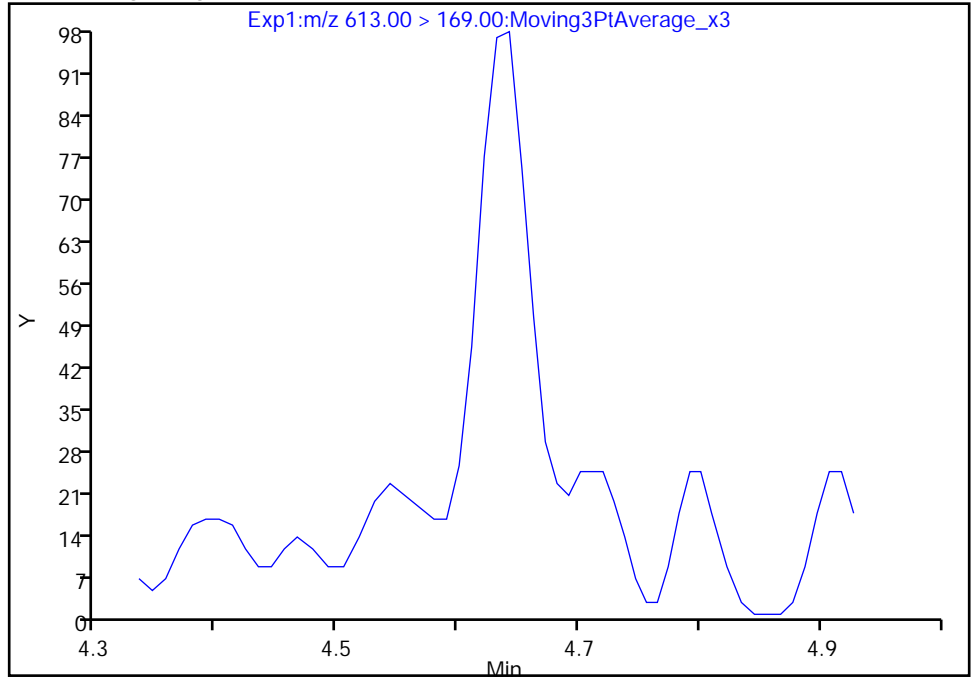
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

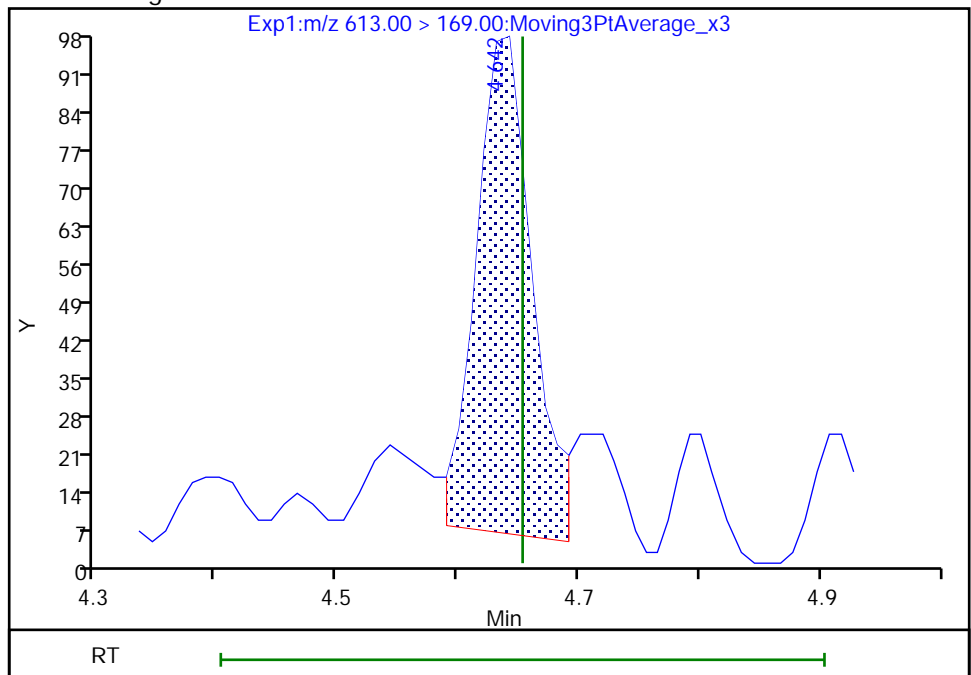
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 294
Amount: 0.002707
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

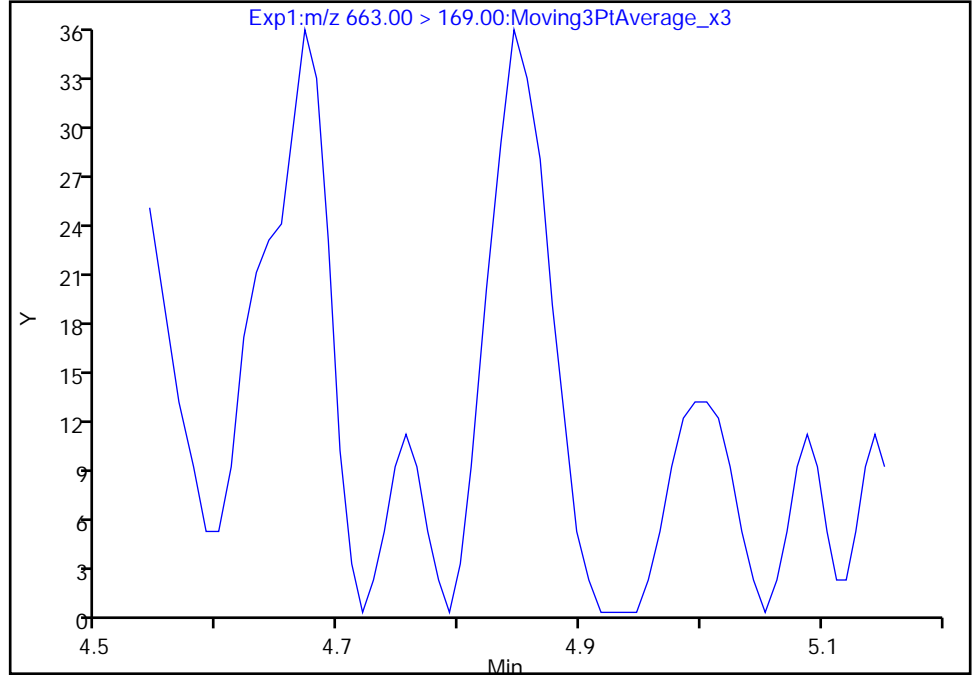
Data File:	\\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d				
Injection Date:	21-May-2021 23:10:08	Instrument ID:	LC812		
Lims ID:	200-58440-B-1-A	Lab Sample ID:	200-58440-1		
Client ID:	MW-26S				
Operator ID:	lc812tech	ALS Bottle#:	32	Worklist Smp#:	5
Injection Vol:	20.0 ul	Dil. 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

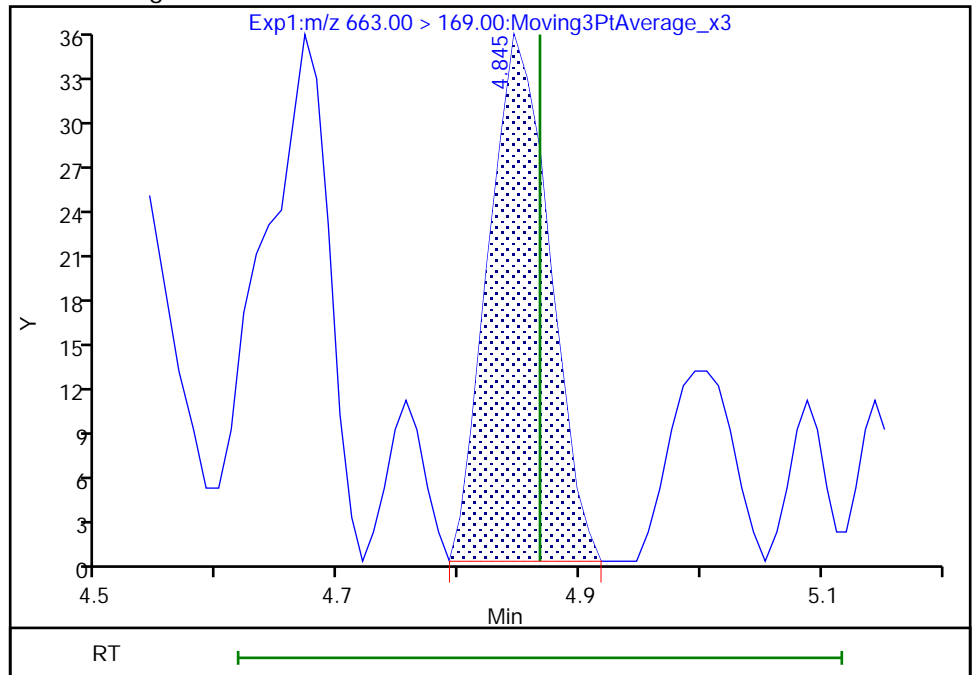
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 127
Amount: 0.002321
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:55:32
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

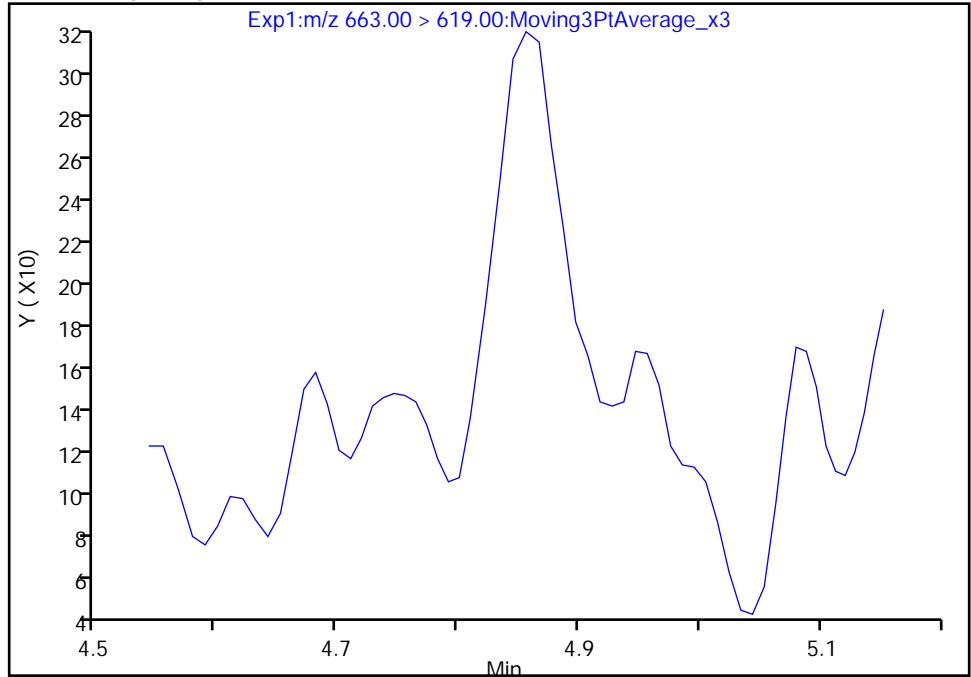
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

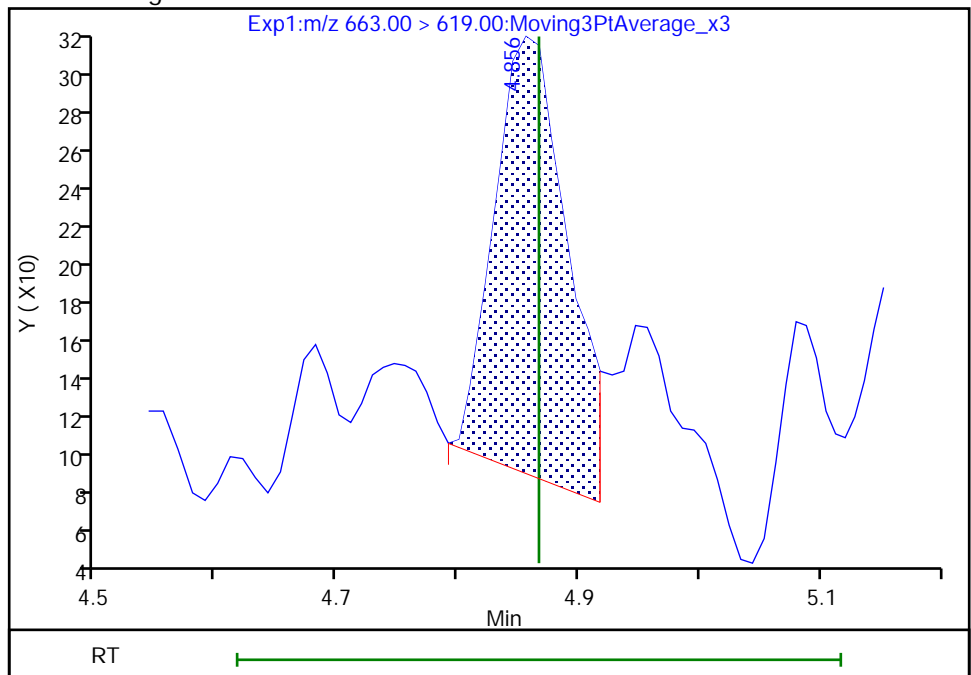
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 961
Amount: 0.002321
Amount Units: ng/ml



Euofins TestAmerica, Burlington

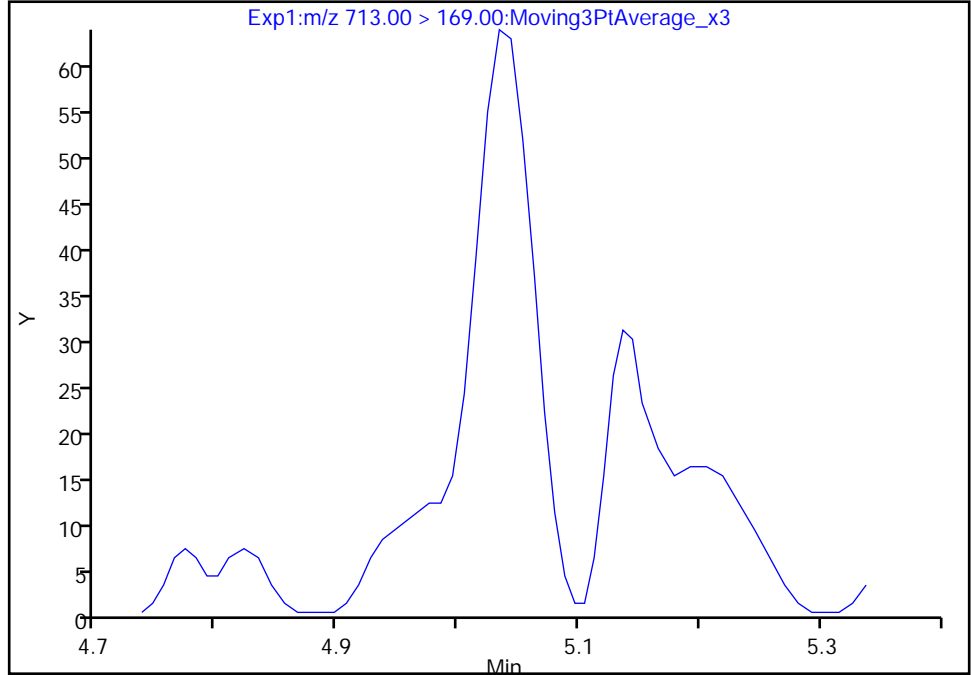
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

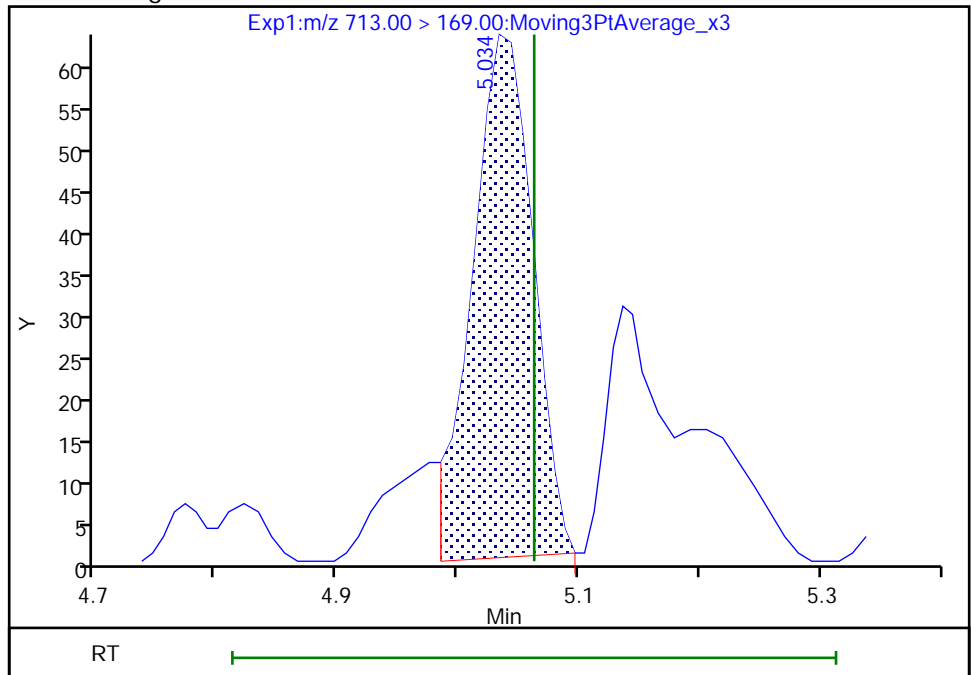
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.03
Area: 220
Amount: 0.002842
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:55:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

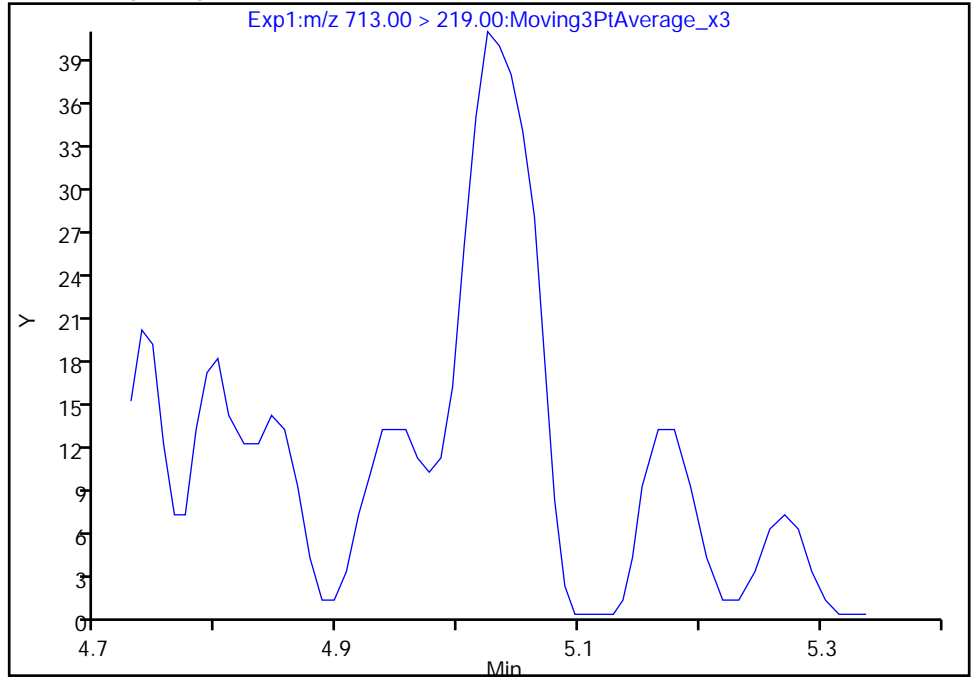
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

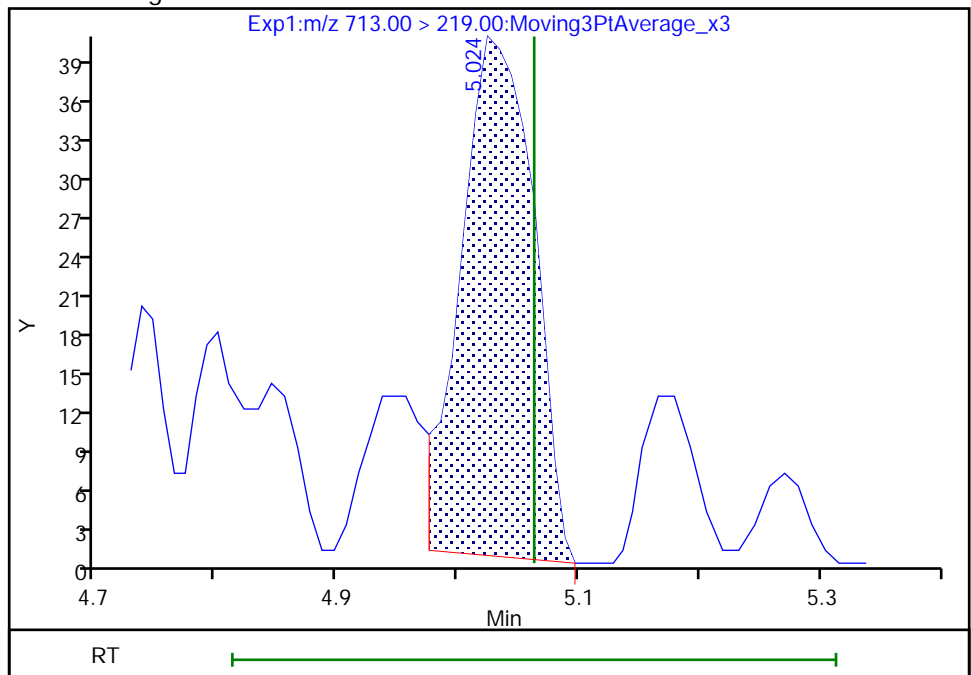
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.02
Area: 168
Amount: 0.002842
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

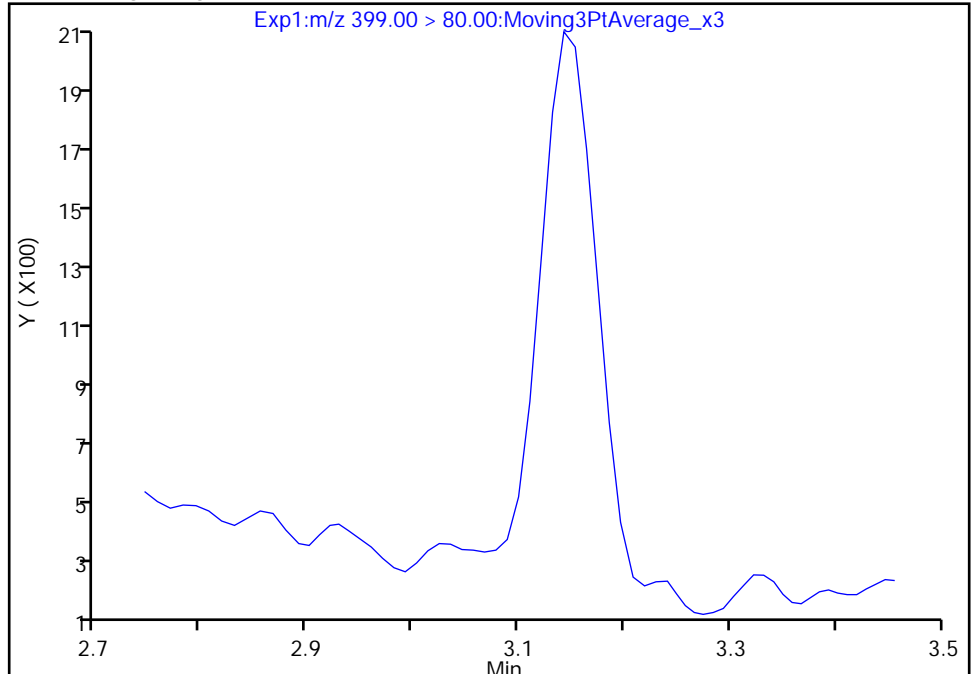
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

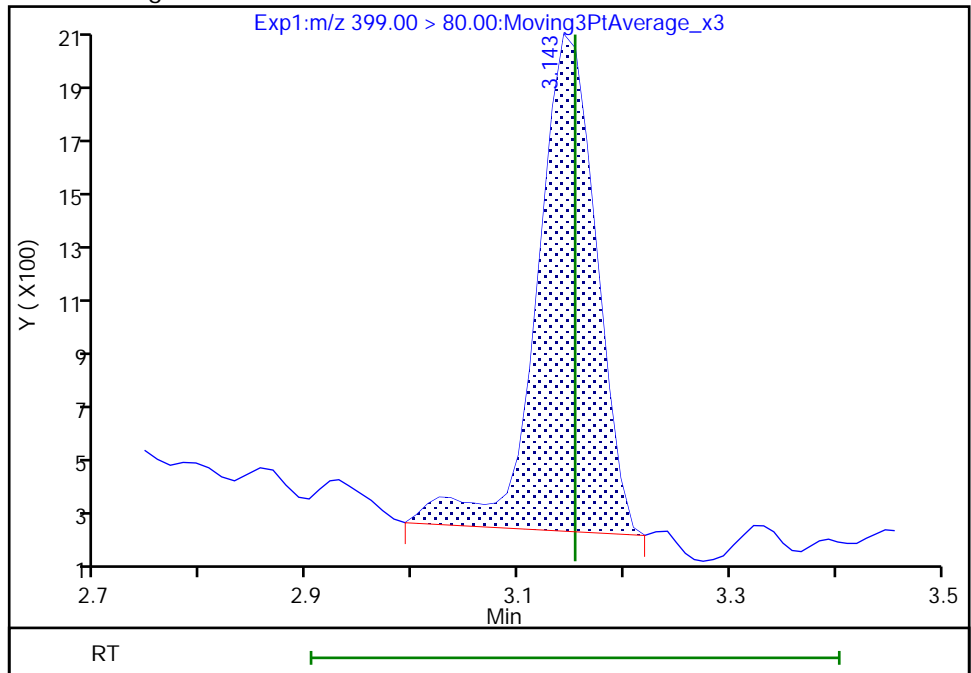
Not Detected
Expected RT: 3.15

Processing Integration Results



RT: 3.14
Area: 6848
Amount: 0.007353
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:49:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

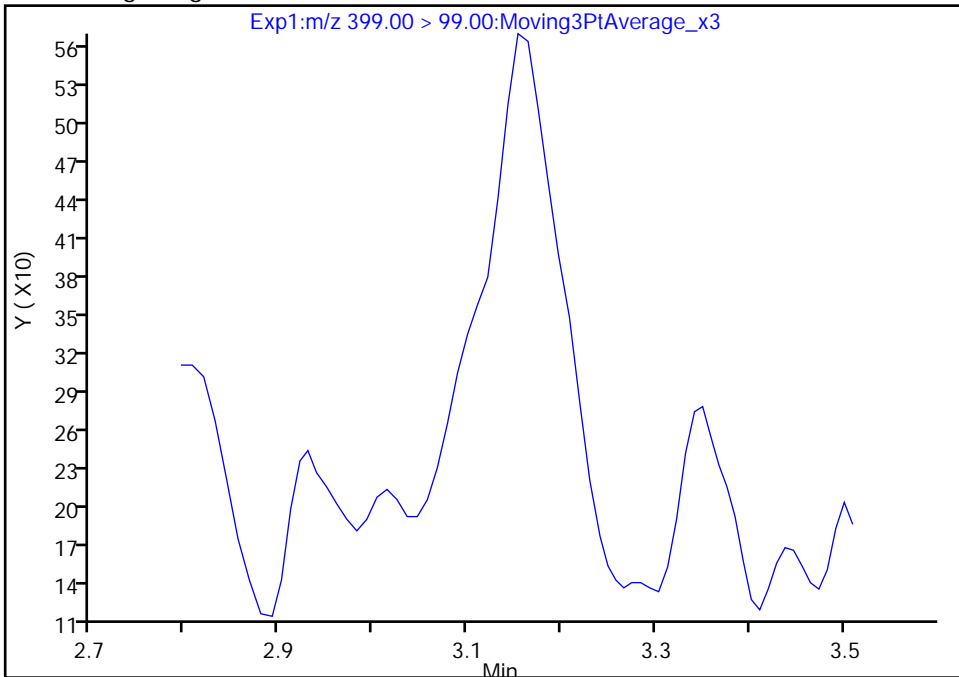
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

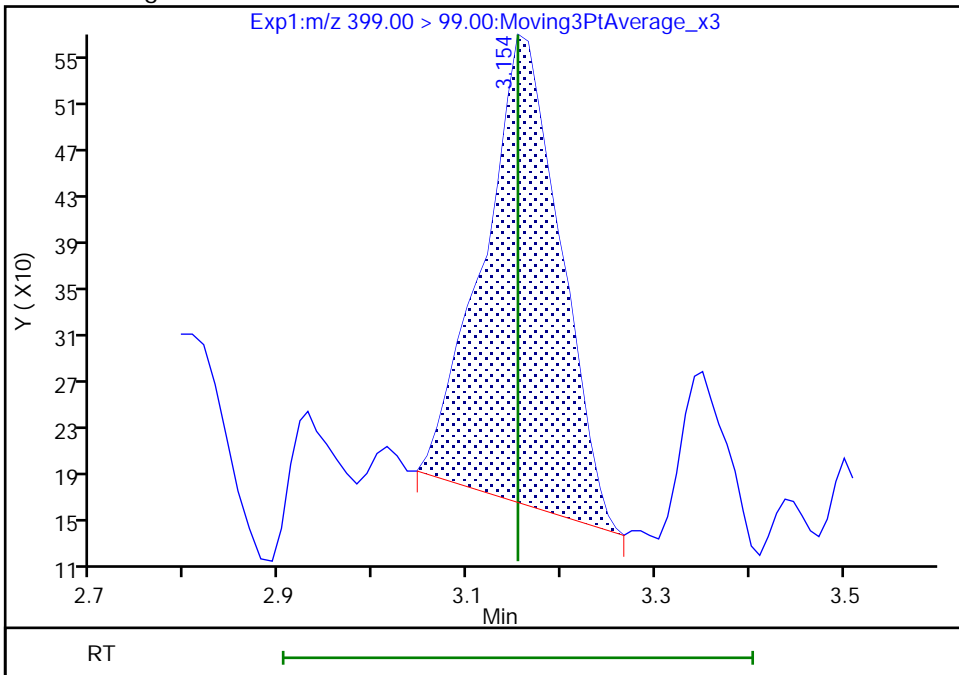
Not Detected
Expected RT: 3.15

Processing Integration Results



RT: 3.15
Area: 2288
Amount: 0.007353
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 09:49:16
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

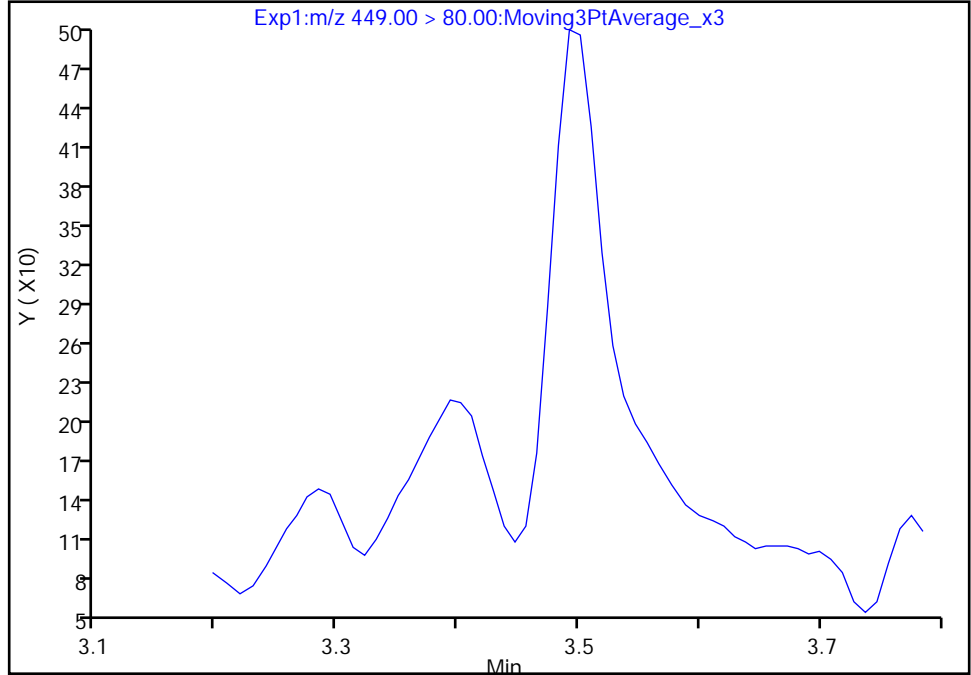
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

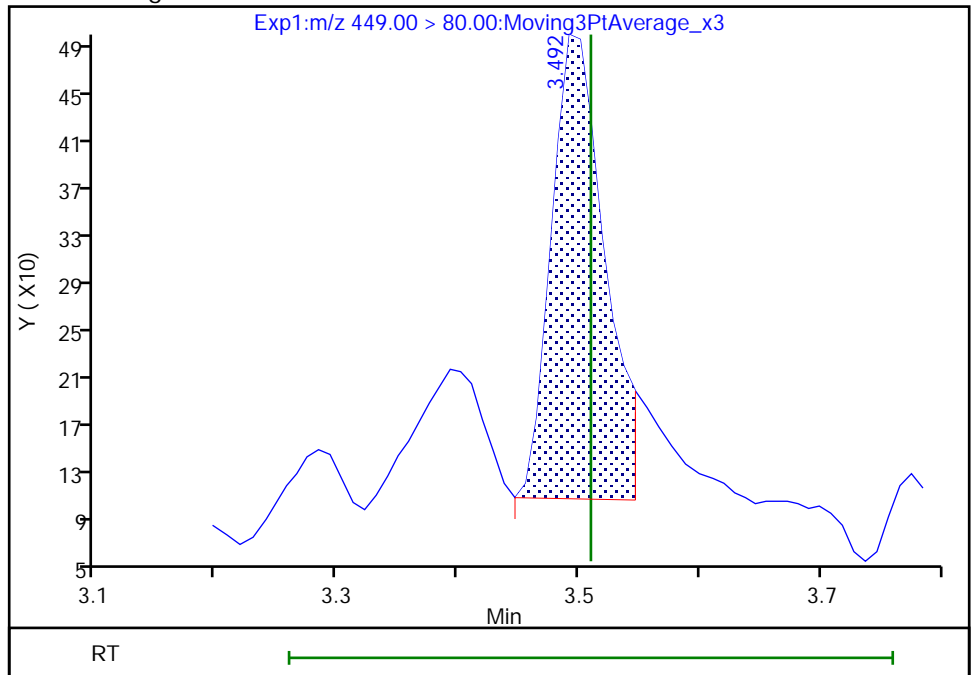
Not Detected
Expected RT: 3.51

Processing Integration Results



RT: 3.49
Area: 1175
Amount: 0.001708
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:49:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

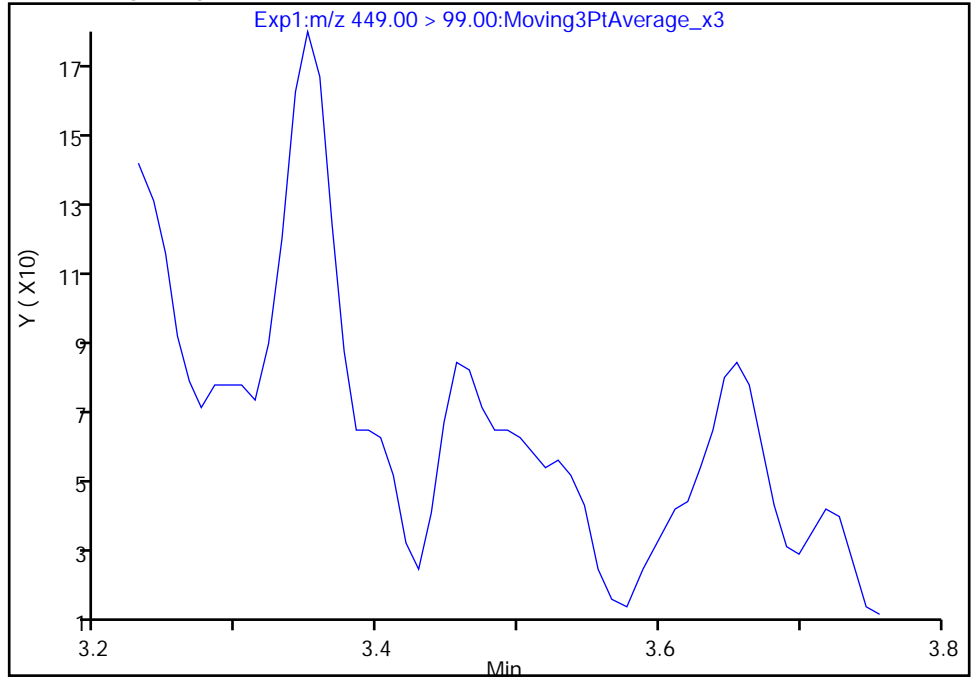
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

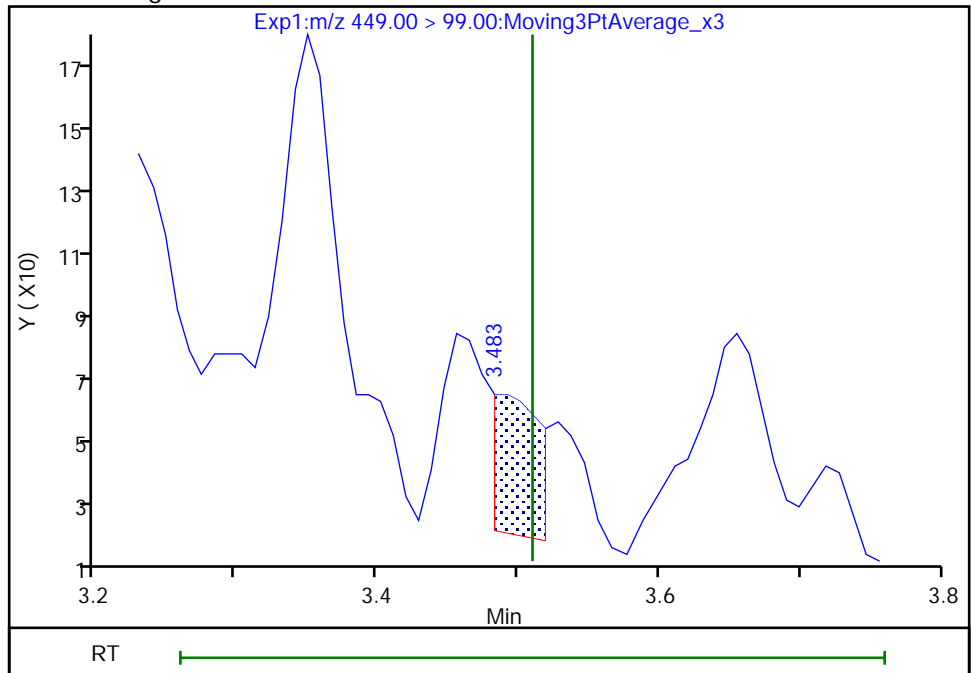
Not Detected
Expected RT: 3.51

Processing Integration Results



RT: 3.48
Area: 82
Amount: 0.001708
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:50:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

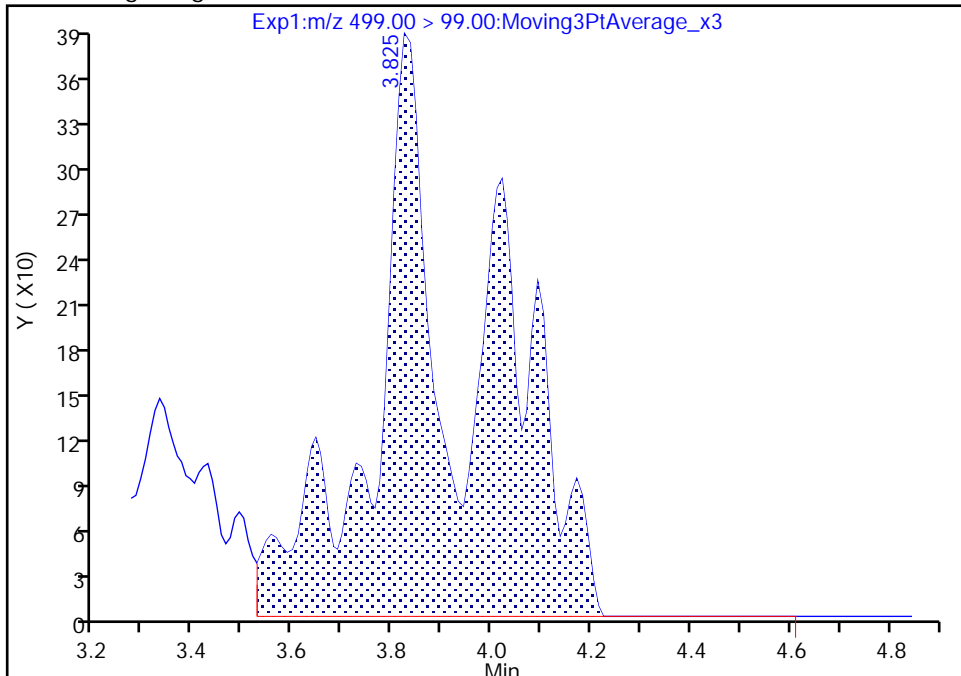
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

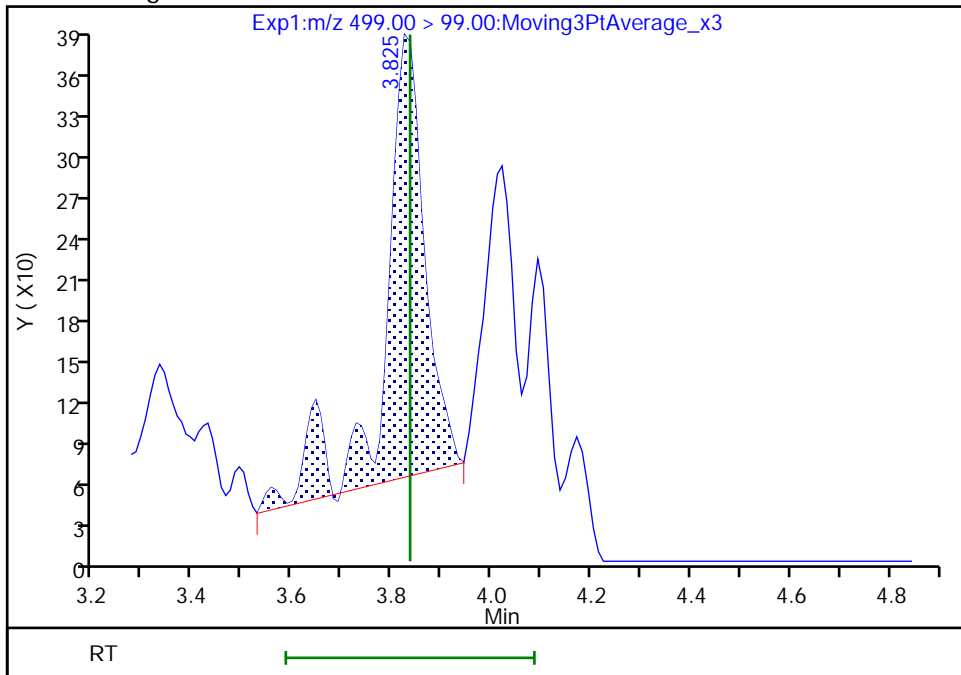
RT: 3.82
Area: 5447
Amount: 0.033892
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 1798
Amount: 0.006702
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:51:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

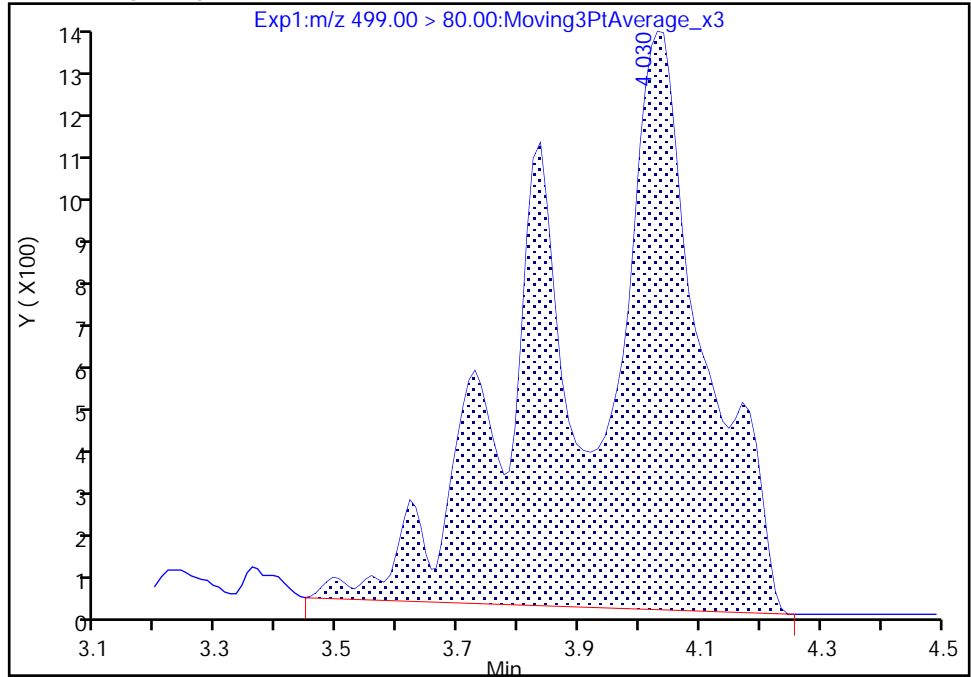
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

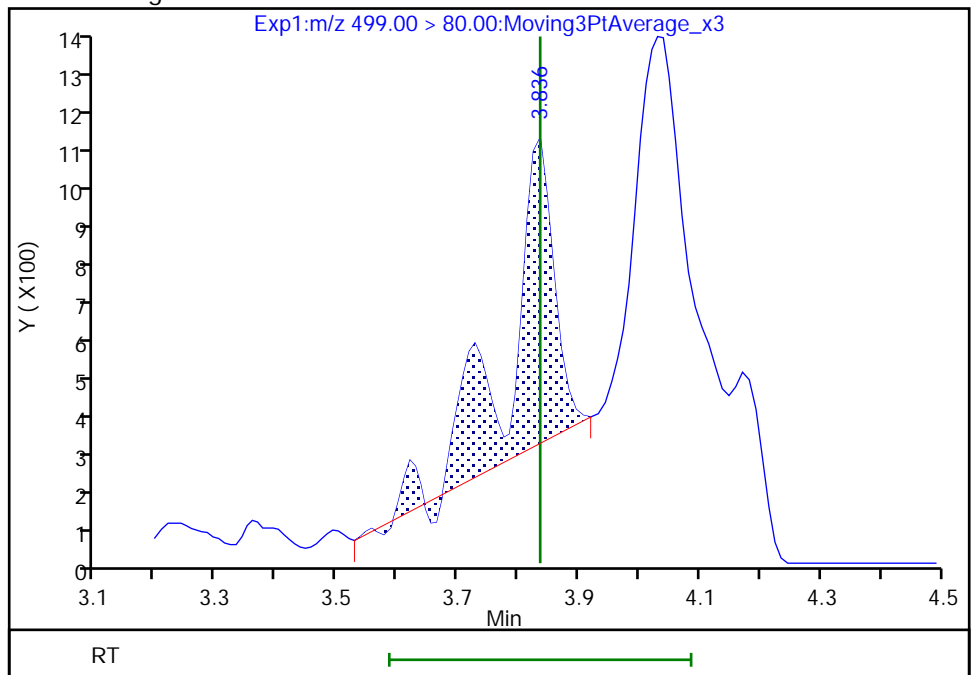
RT: 4.03
Area: 20203
Amount: 0.033892
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 3995
Amount: 0.006702
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 09:51:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

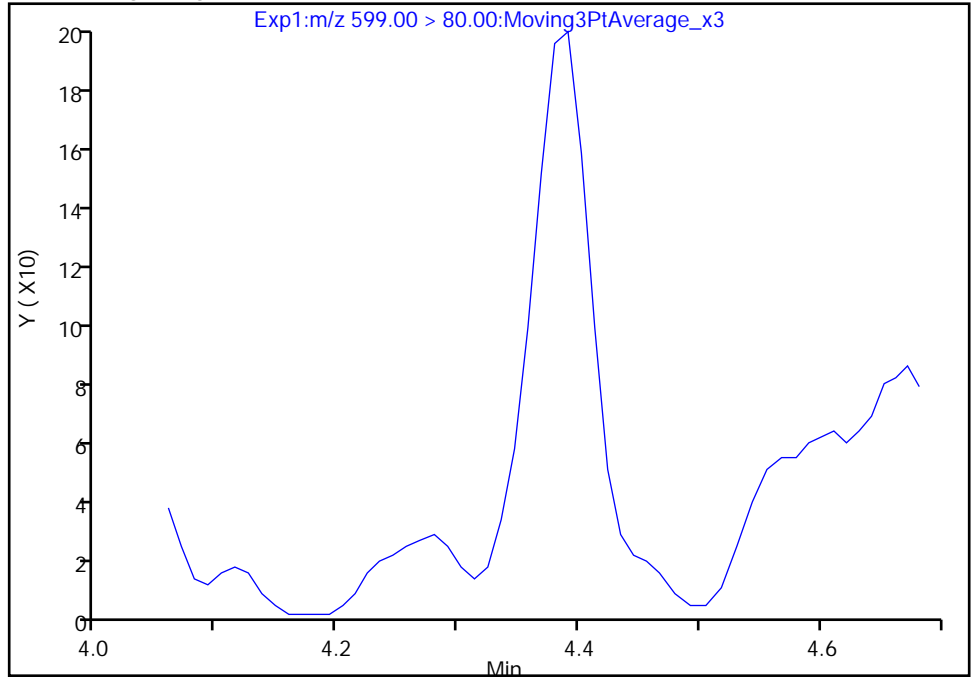
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

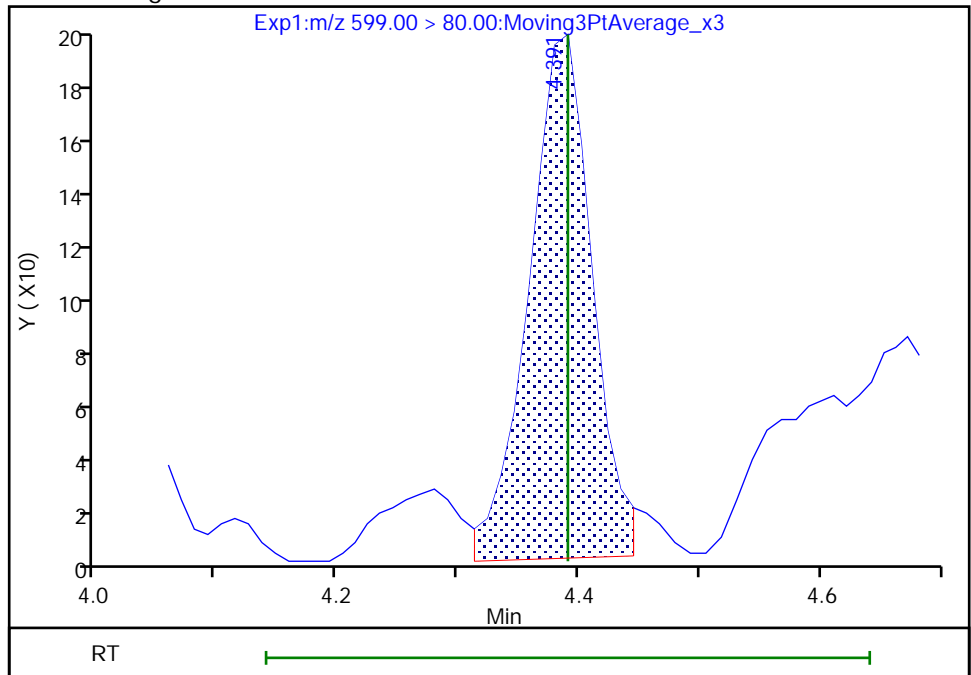
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 709
Amount: 0.002029
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:54:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

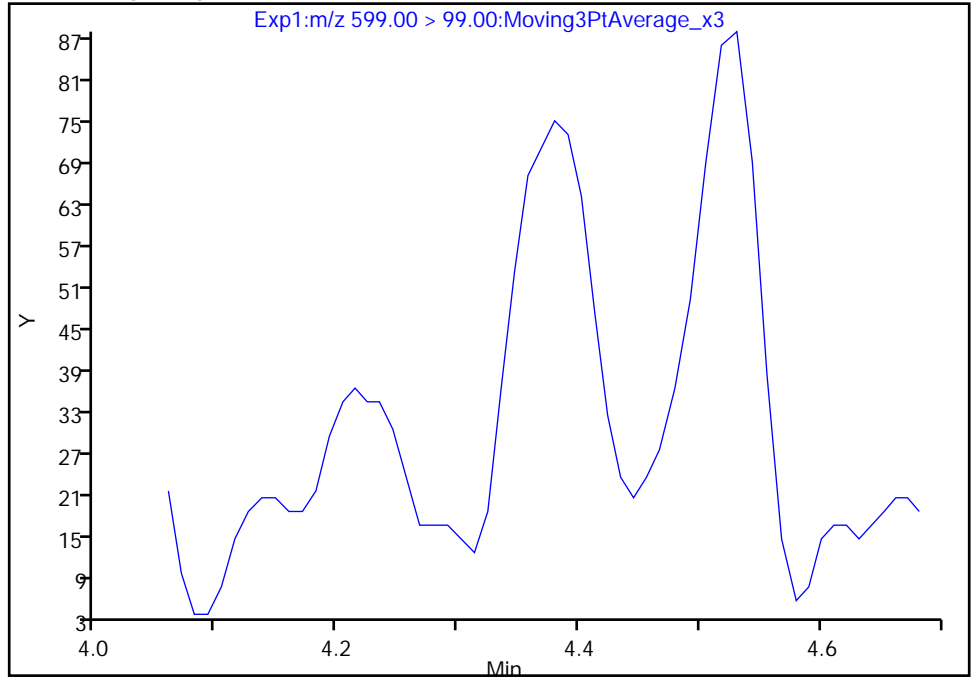
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

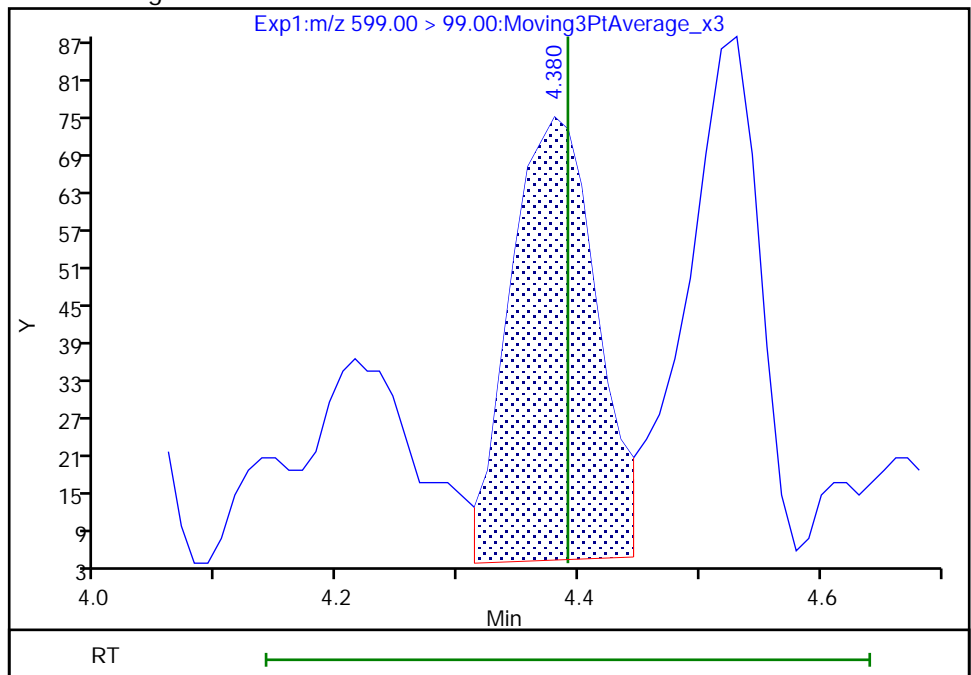
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 352
Amount: 0.002029
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

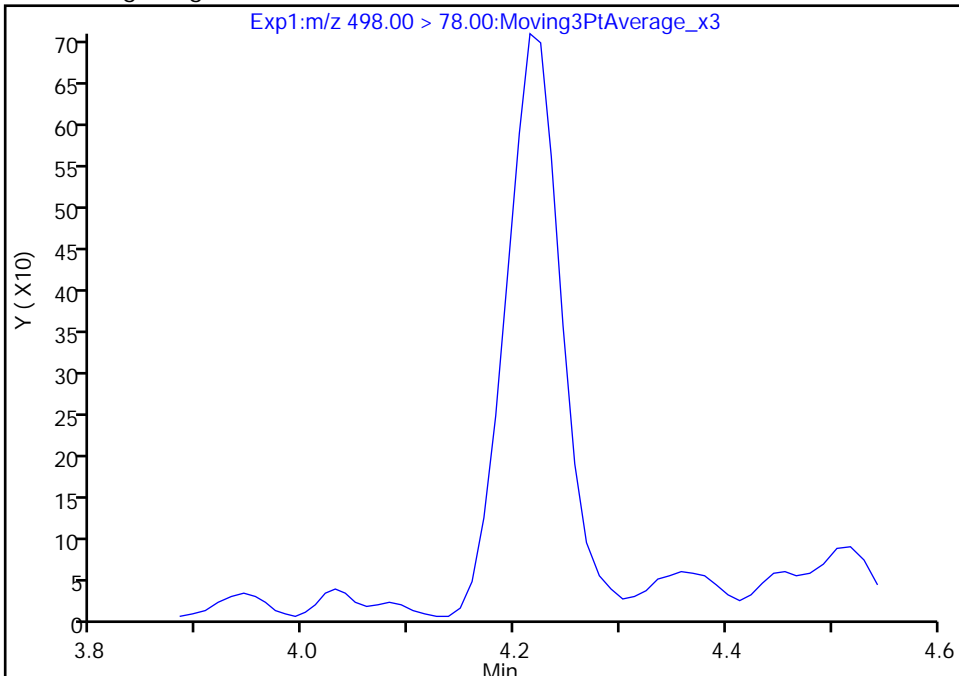
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

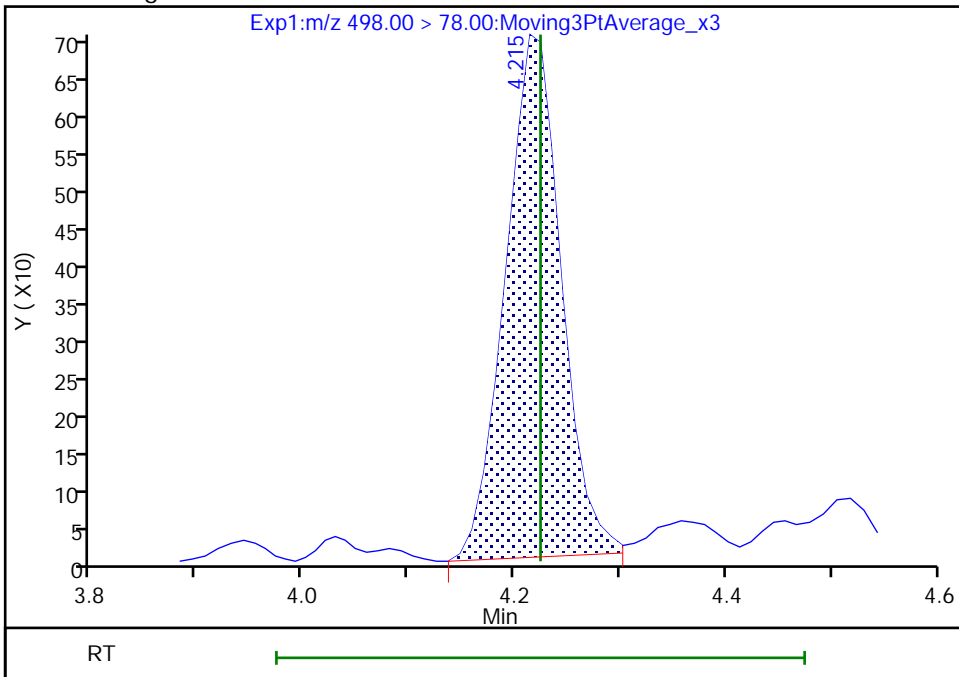
Signal: 1

Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results



RT: 4.21
Area: 2548
Amount: 0.003053
Amount Units: ng/ml

Euofins TestAmerica, Burlington

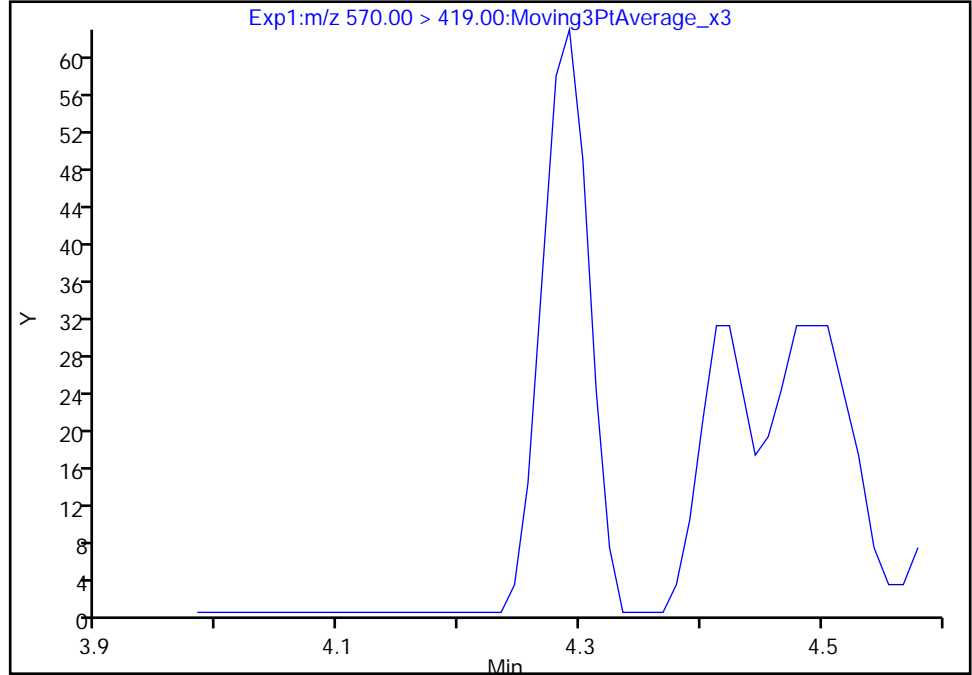
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

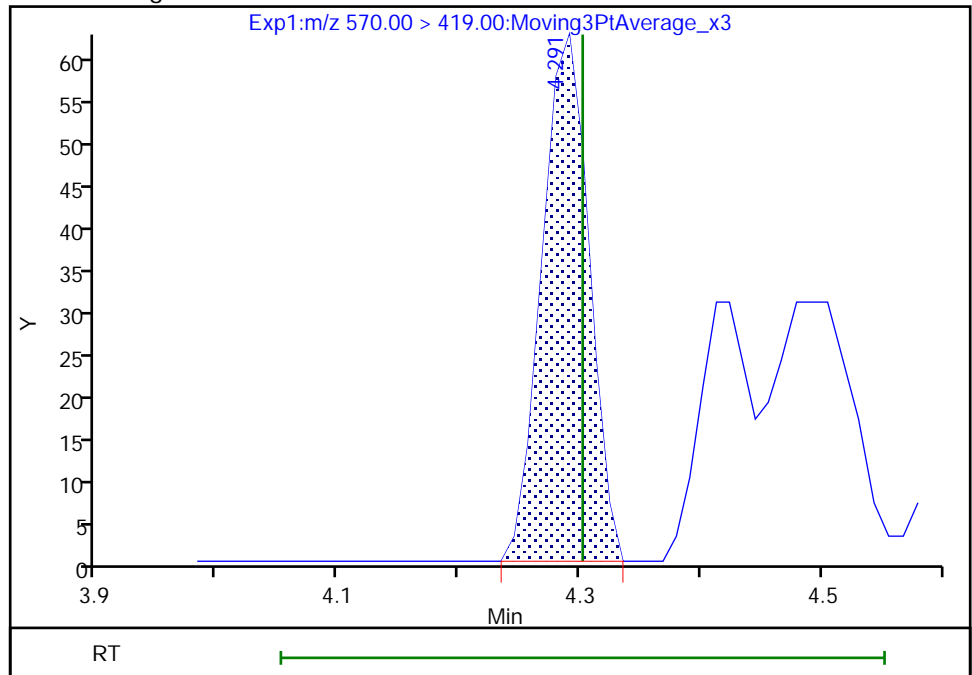
Not Detected
Expected RT: 4.30

Processing Integration Results



Manual Integration Results

RT: 4.29
Area: 171
Amount: 0.004469
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:53:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

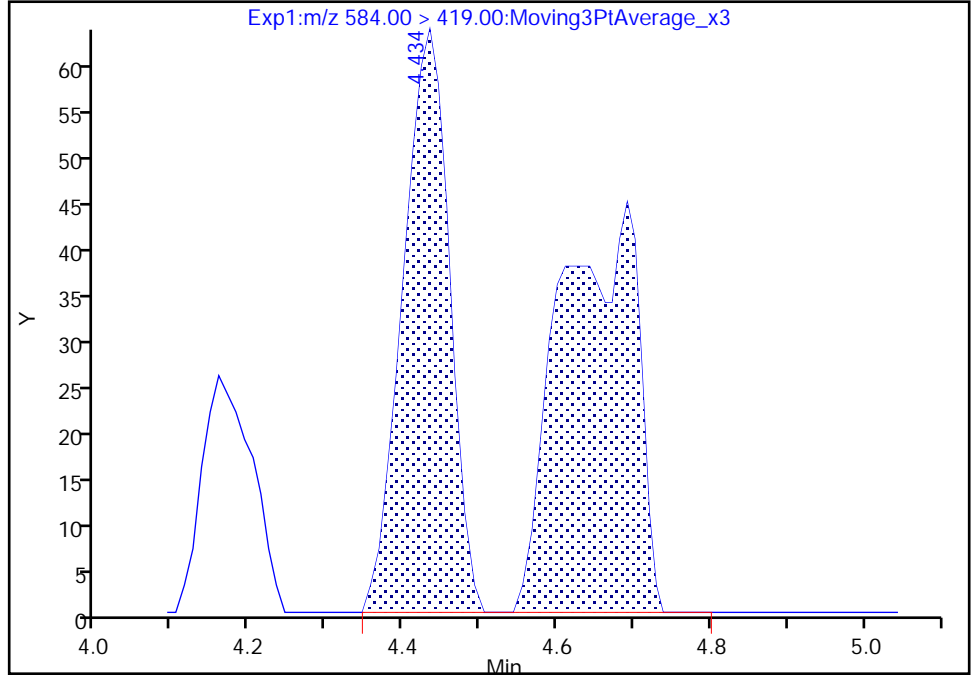
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

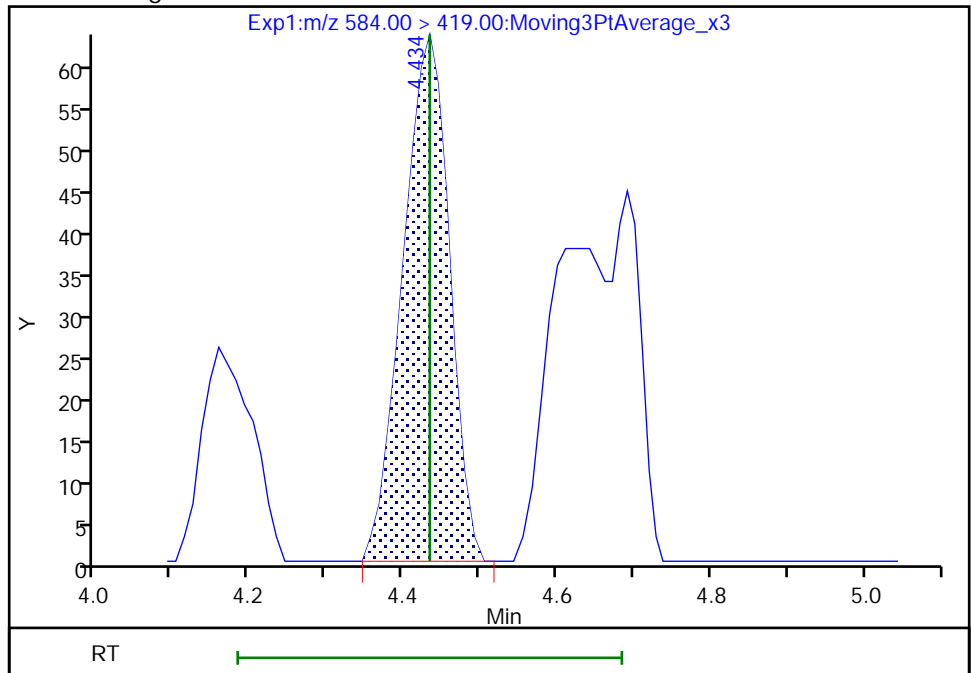
RT: 4.43
Area: 584
Amount: 0.004766
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 268
Amount: -0.003764
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:54:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

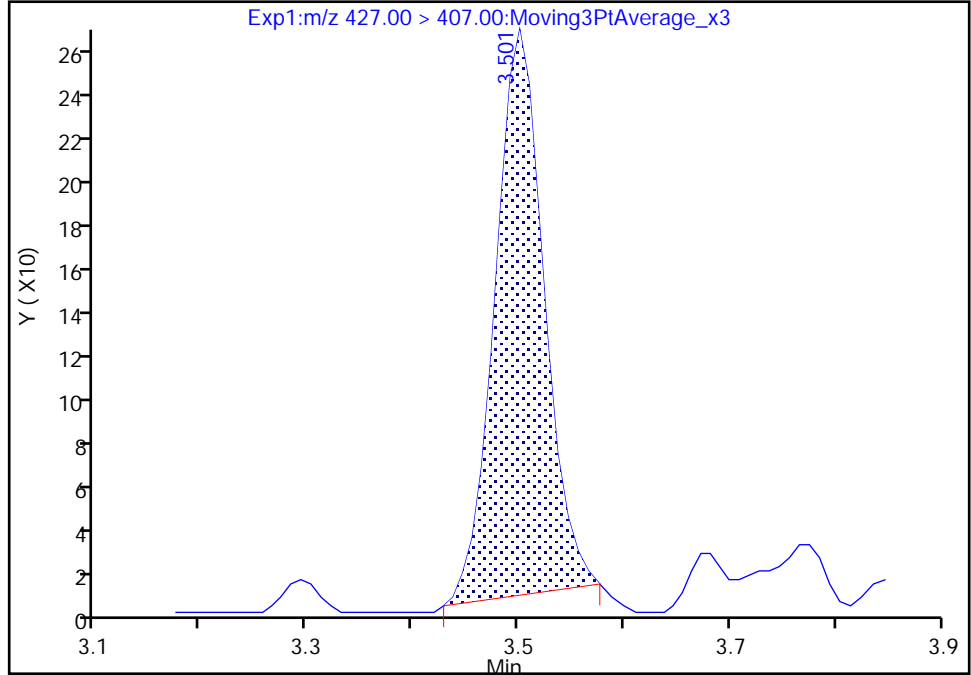
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Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

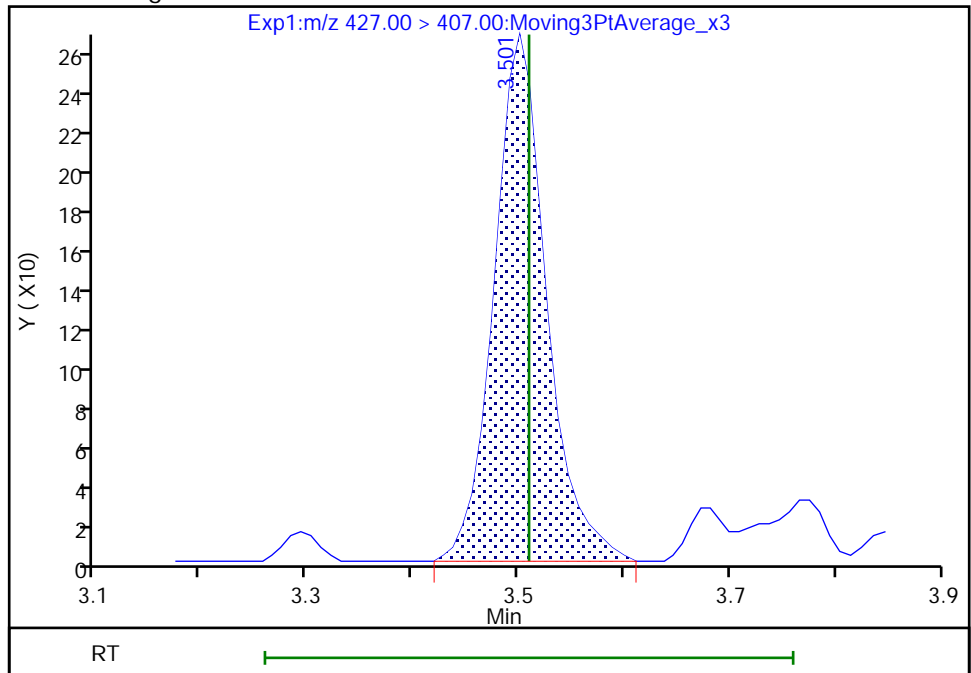
RT: 3.50
Area: 833
Amount: 0.007911
Amount Units: ng/ml

Processing Integration Results



RT: 3.50
Area: 916
Amount: 0.008699
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:50:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

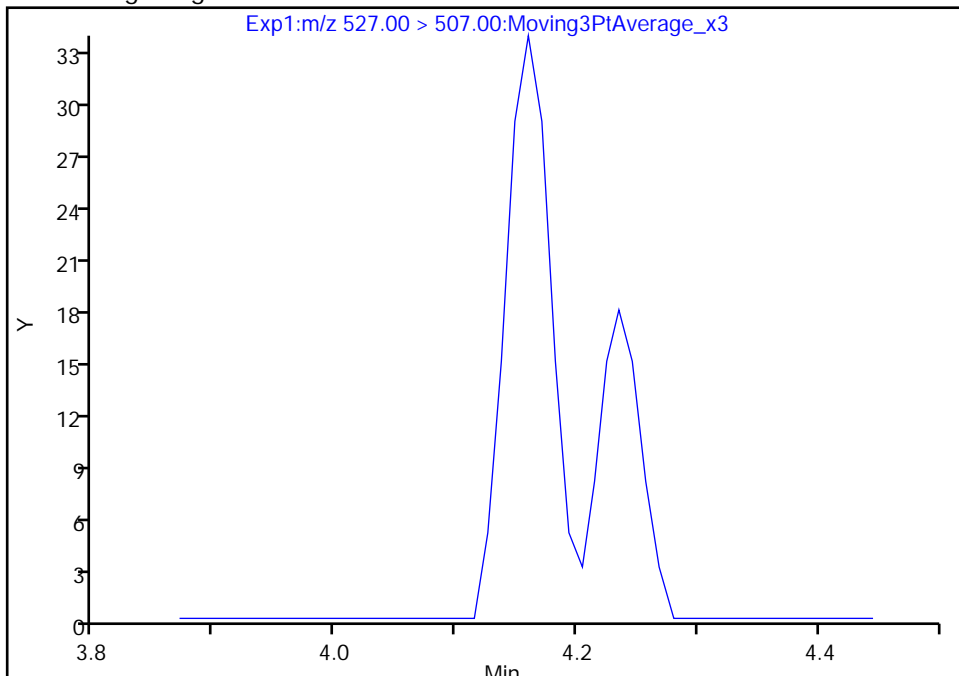
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Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

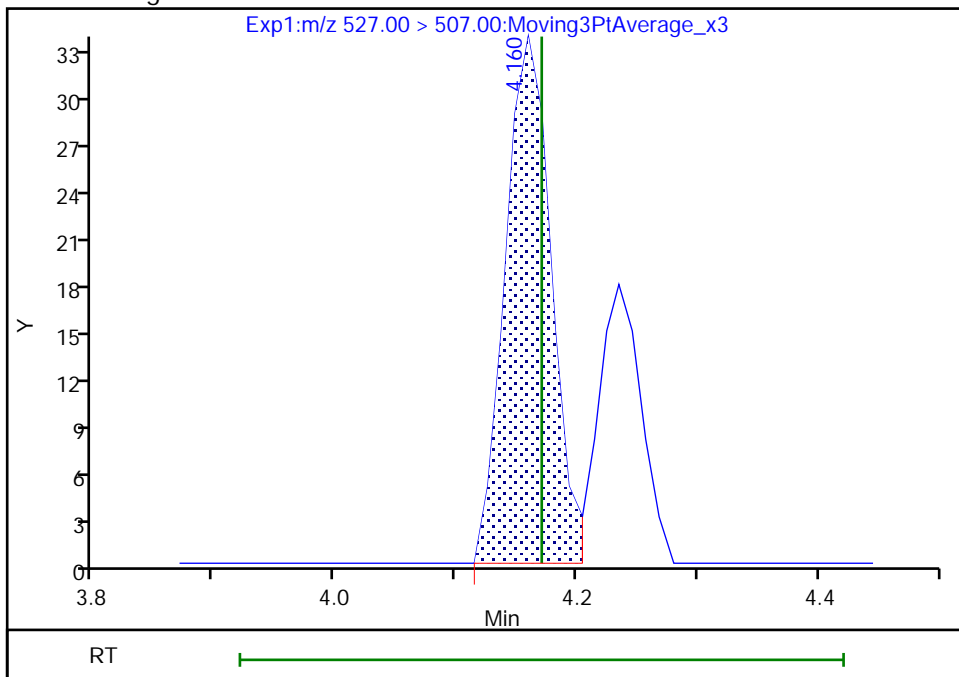
Not Detected
Expected RT: 4.17

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 89
Amount: 0.001595
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:53:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

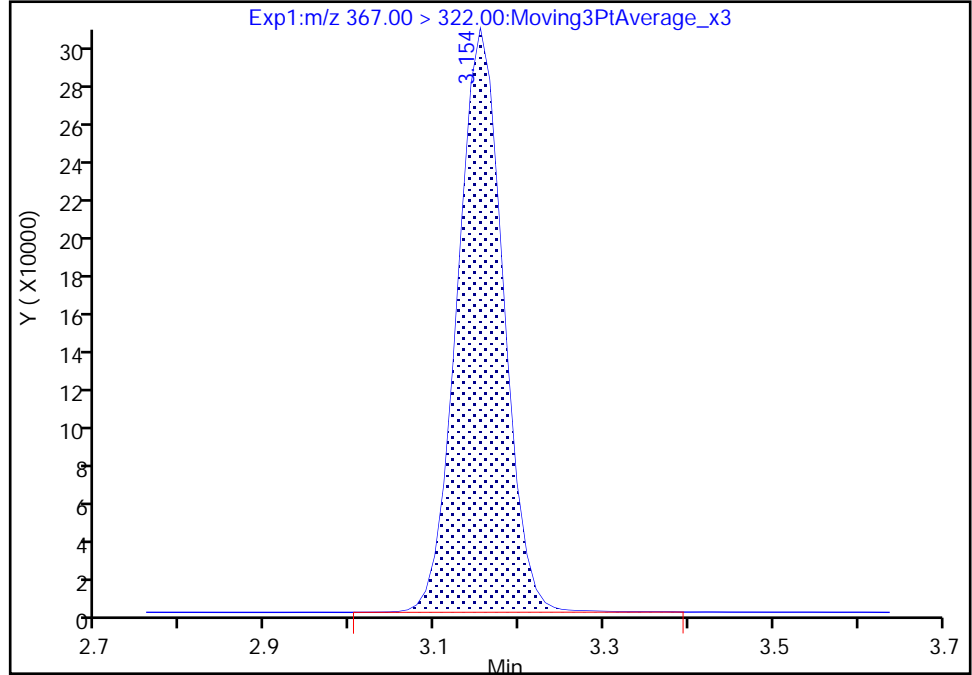
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Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

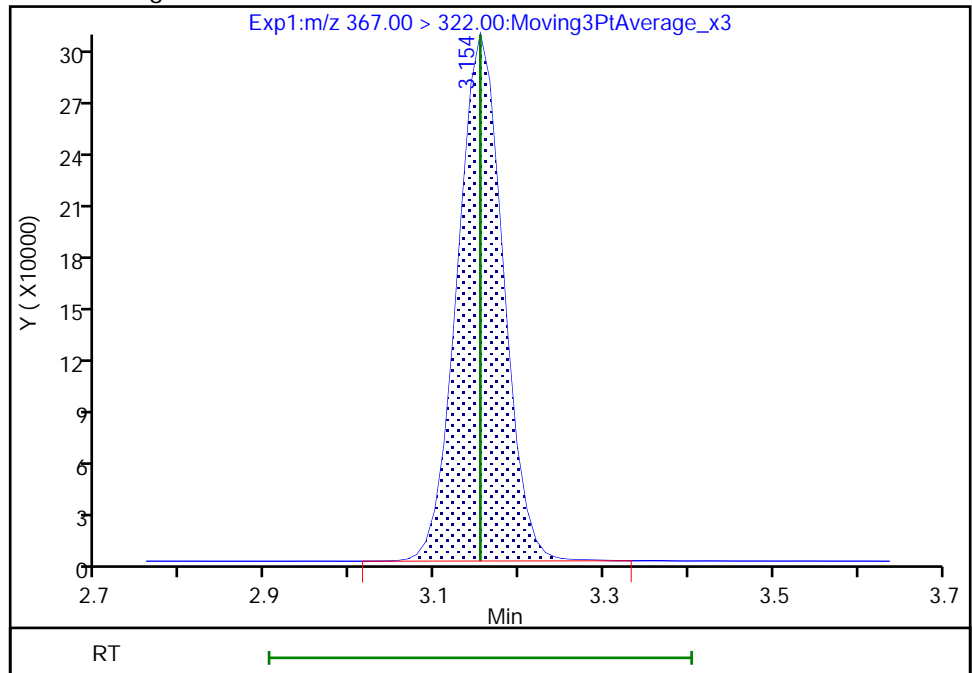
RT: 3.15
Area: 1159649
Amount: 1.168027
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 1157586
Amount: 1.165949
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:46:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

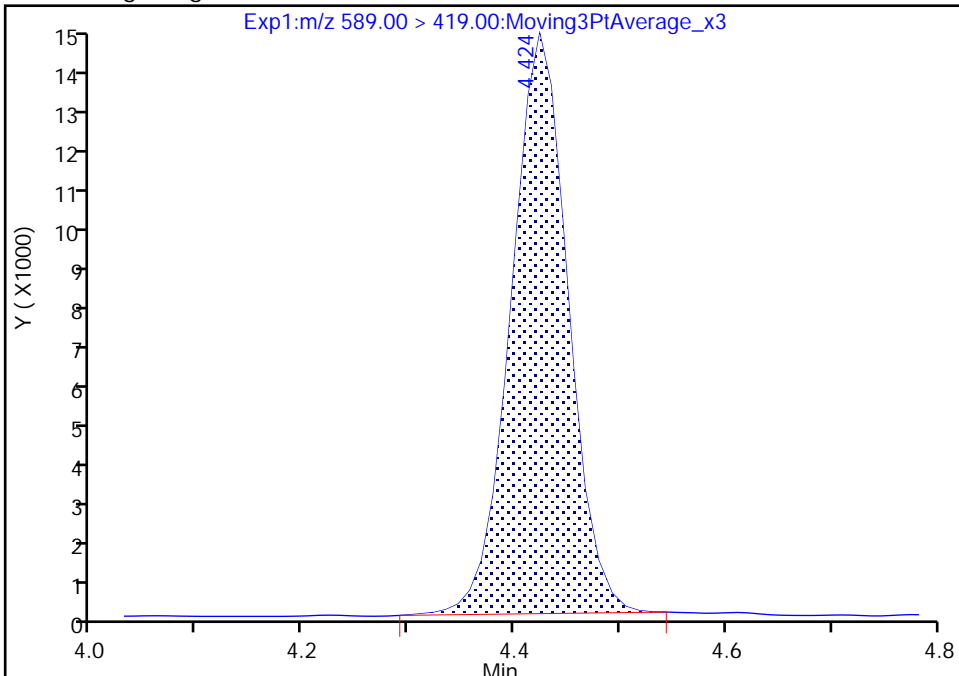
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

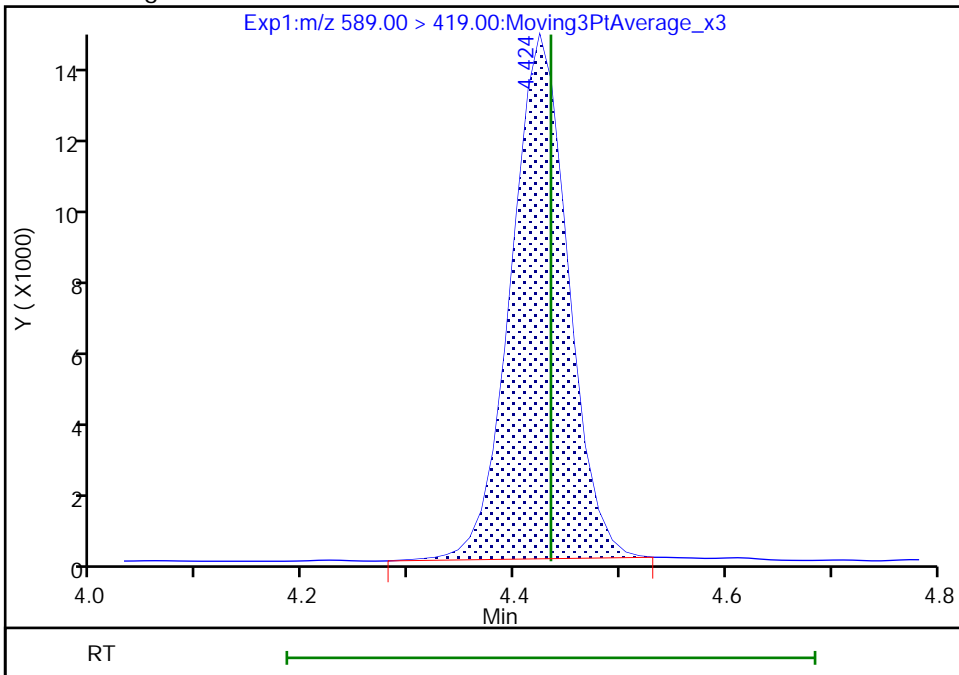
RT: 4.42
Area: 53256
Amount: 0.965625
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 53289
Amount: 0.966223
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:47:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

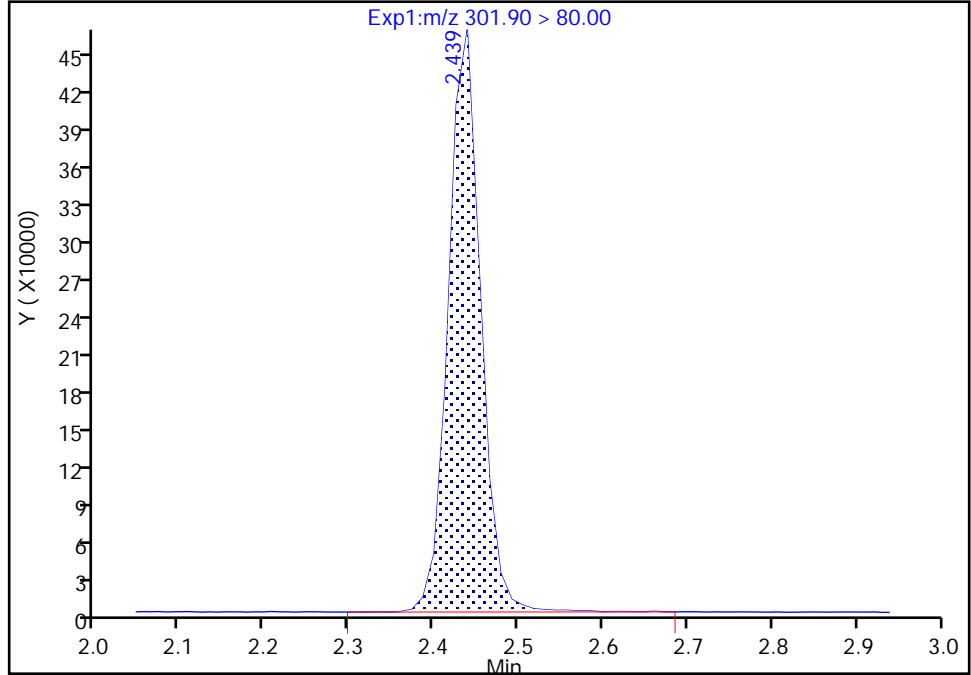
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C05.d
Injection Date: 21-May-2021 23:10:08 Instrument ID: LC812
Lims ID: 200-58440-B-1-A Lab Sample ID: 200-58440-1
Client ID: MW-26S
Operator ID: lc812tech ALS Bottle#: 32 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

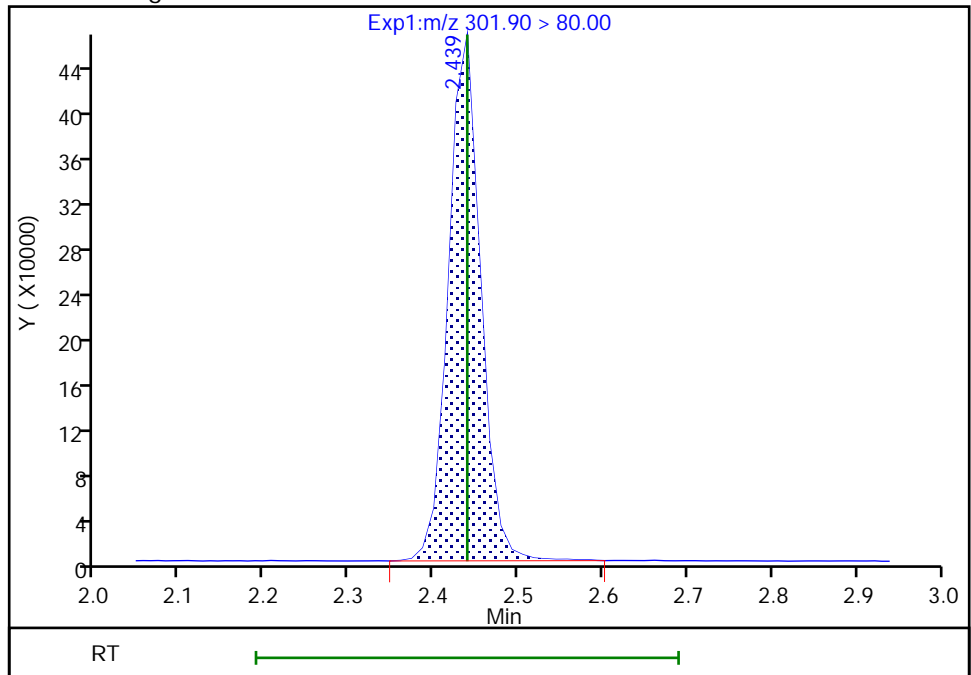
RT: 2.44
Area: 1227412
Amount: 1.073231
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 1224483
Amount: 1.070670
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:46:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: MW-25S Lab Sample ID: 200-58440-2
 Matrix: Water Lab File ID: PA210521C06.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 14:15
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 295.5 (mL) Date Analyzed: 05/21/2021 23:18
 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.: 167173 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	6.3		4.2	0.76
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.70	J	1.7	0.40
307-24-4	Perfluorohexanoic acid (PFHxA)	0.42	J	1.7	0.38
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.27	J	1.7	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	0.40	J	1.7	0.36
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.53
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.35	J	1.7	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.26
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.25
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.76
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.63
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.2	0.93
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.33

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: MW-25S Lab Sample ID: 200-58440-2
 Matrix: Water Lab File ID: PA210521C06.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 14:15
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 295.5 (mL) Date Analyzed: 05/21/2021 23:18
 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.: 167173 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	89		50-150
STL01892	13C4 PFHpA	95		50-150
STL00990	13C4 PFOA	93		50-150
STL00991	13C4 PFOS	87		50-150
STL00995	13C5 PFNA	94		50-150
STL00992	13C4 PFBA	89		25-150
STL00993	13C2 PFHxA	90		50-150
STL00996	13C2 PFDA	88		50-150
STL00997	13C2 PFUnA	74		50-150
STL00998	13C2 PFDoA	70		50-150
STL01056	13C8 FOSA	77		25-150
STL01893	13C5 PFPeA	89		25-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	79		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	93		25-150
STL02280	M2-8:2 FTS	86		25-150
STL02337	13C3 PFBS	87		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
 Lims ID: 200-58440-A-2-A
 Client ID: MW-25S
 Sample Type: Client
 Inject. Date: 21-May-2021 23:18:26 ALS Bottle#: 33 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 200-58440-A-2-A
 Misc. Info.: 200-0046090-006 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 10:07:41
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.091	2.091	0.0	0.594	1453070	1.11	88.9	10984	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.100	-0.009	1.000	202735	0.1865		37.9		M
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1058728	1.11	89.2	3163	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.426	2.426	0.0	1.000	17758	0.0207		1.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.439	2.439	0.0	0.693	1194493	1.01	86.5	215595	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.439	2.439	0.0	1.000	11101	0.0105	Target=2.19	7.4		
298.90 > 99.00	2.439	2.439	0.0	1.000	6037		1.84(1.09-3.28)	4.1		
D 7 13C2 PFHxA	315.00 > 270.00	2.782	2.782	0.0	0.791	1160992	1.13	90.1	2560	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.782	2.782	0.0	1.000	11555	0.0123	Target=12.12	2.7		
313.00 > 119.00	2.782	2.782	0.0	1.000	757		15.26(6.06-18.18)	1.8		M
D 11 18O2 PFHxS	403.00 > 84.00	3.154	3.154	0.0	0.896	968939	1.05	88.9	2422	
8 Perfluorohexanesulfonic acid										RM
399.00 > 80.00	3.154	3.154	0.0	1.000	6341	0.006981	Target=4.23	12.0		RM
399.00 > 99.00	3.154	3.154	0.0	1.000	770		8.24(2.12-6.35)	1.1		M
D 9 13C4 PFHpA	367.00 > 322.00	3.154	3.154	0.0	0.896	1222027	1.19	94.9	3096	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.154	3.164	-0.010	1.000	7870	0.007981	Target=3.49	2.8		M
363.00 > 169.00	3.154	3.164	-0.010	1.000	1900		4.14(1.75-5.24)	4.8		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	135543	1.11		93.5	319	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.537	3.510	0.027	1.008	131	0.001279		2.9		M
D 14 13C4 PFOA										M
417.00 > 372.00	3.519	3.519	0.0	1.000	1215198	1.16		93.1	3624	M
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1303694	1.25		178		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.519	3.519	0.0	1.000	11662	0.0117	Target=2.53	2.7		M
413.00 > 169.00	3.519	3.519	0.0	1.000	7127		1.64(1.27-3.80)	10.2		M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	690576	1.04		86.9	2783	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.836	3.836	0.0	1.000	4009	0.006444	Target=6.09	2.6		RM
499.00 > 99.00	3.824	3.836	-0.012	0.997	1846		2.17(3.04-9.13)	2.8		M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.847	3.858	-0.011	0.997	1215	0.001397	Target=6.34	0.5		M
463.00 > 169.00	3.858	3.858	0.0	1.000	206		5.90(3.17-9.51)	2.3		M
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.097	1128688	1.17		93.9	3343	
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.160	0.0	1.182	931822	1.10		88.4	2809	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.148	4.160	-0.012	0.997	1044	0.001338	Target=7.79	1.2		M
513.00 > 169.00	4.126	4.160	-0.034	0.992	148		7.05(3.90-11.69)	1.2		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.171	-0.011	1.182	128208	1.02		85.5	596	
D 21 13C8 FOSA										
506.00 > 78.00	4.224	4.225	-0.001	1.201	1152035	0.9682		77.5	3200	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.235	4.225	0.009	1.002	1686	0.001870		12.2		M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.302	4.302	0.0	1.223	56688	0.99		79.5	1060	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.313	4.302	0.011	1.003	43	0.001079		0.6		M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.391	4.391	0.0	1.145	119	0.000326	Target=2.87	1.4		RM
599.00 > 99.00	4.391	4.391	0.0	1.145	239		0.50(1.44-4.31)	2.2		M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.413	4.424	-0.011	1.000	579	0.001164	Target=7.94	1.2		M
563.00 > 169.00	4.402	4.424	-0.022	0.997	53		10.92(3.97-11.91)	1.3		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.424	-0.011	1.254	628685	0.9293		74.3	2530	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.424	4.434	-0.010	1.257	64773	1.13		90.5	710	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	4.424	4.434	-0.010	1.000	39	-0.0101			0.8	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.653	0.0	1.322	617183	0.8718		69.7	3819	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.653	4.653	0.0	1.000	448	0.000905	Target=5.94		0.3	RM
613.00 > 169.00	4.663	4.653	0.010	1.002	173		2.59(2.97-8.92)		2.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.063	-0.010	1.436	501107	0.9675		77.4	3942	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.071	5.063	0.008	1.004	196	0.002391	Target=1.01		6.0	M
713.00 > 219.00	5.053	5.063	-0.010	1.000	191		1.03(0.51-1.52)		9.4	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d

Injection Date: 21-May-2021 23:18:26

Instrument ID: LC812

Lims ID: 200-58440-A-2-A

Lab Sample ID: 200-58440-2

Client ID: MW-25S

Operator ID: lc812tech

ALS Bottle#: 33

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

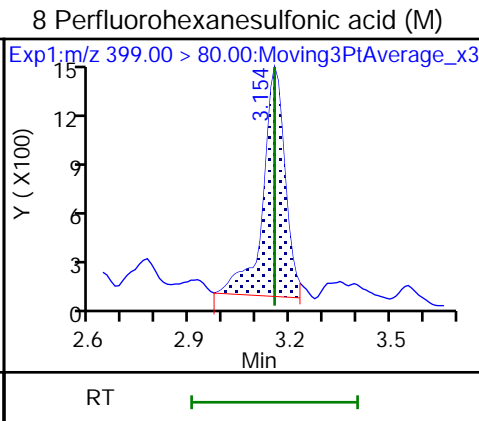
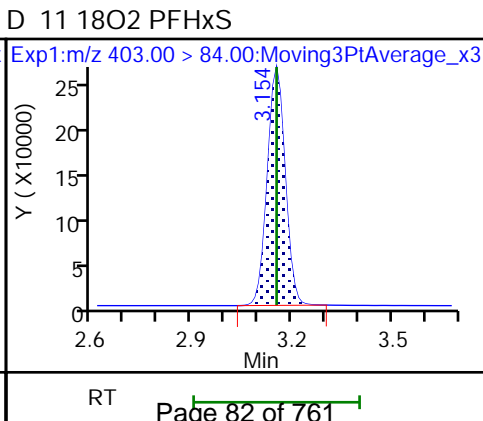
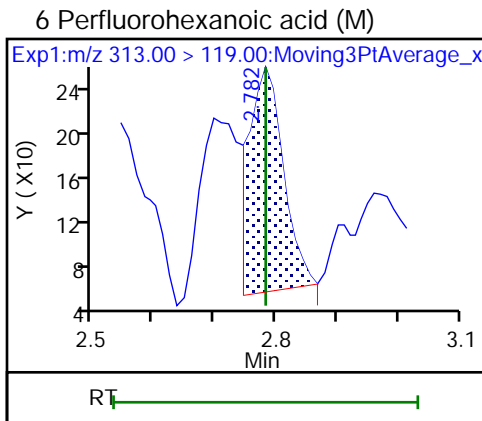
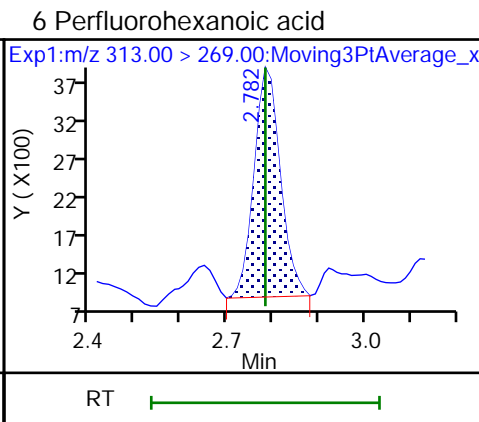
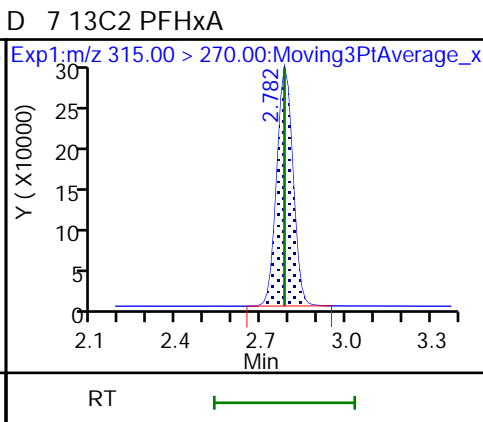
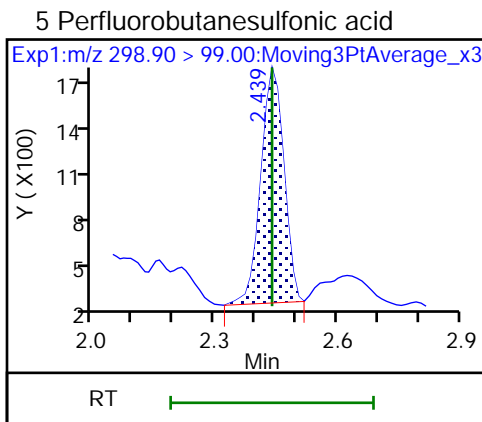
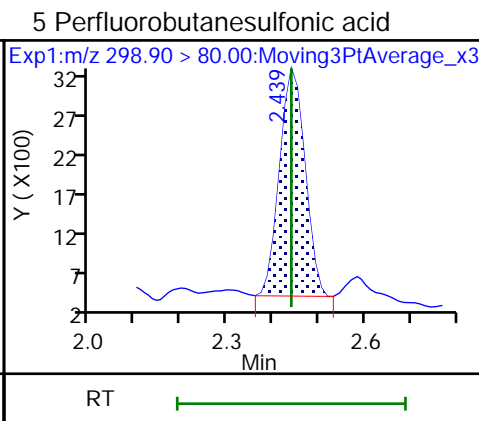
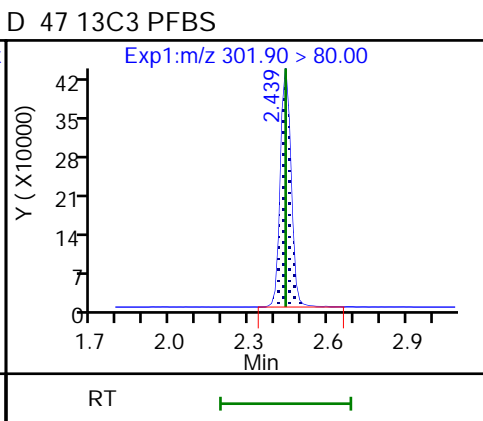
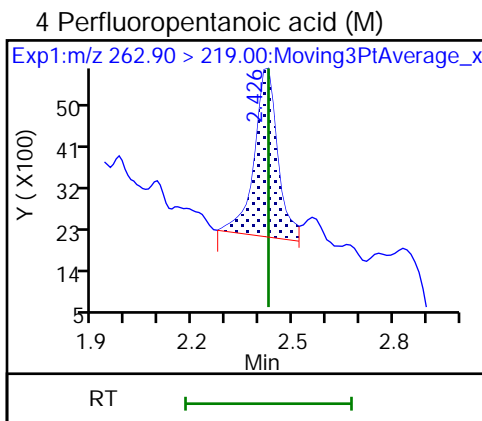
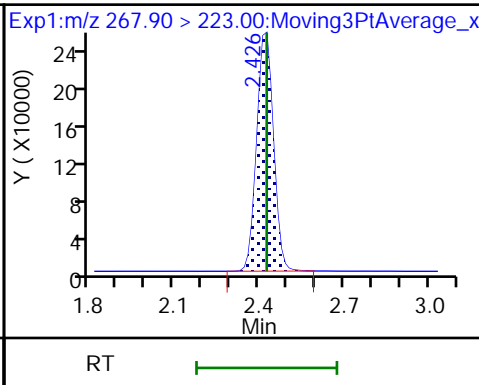
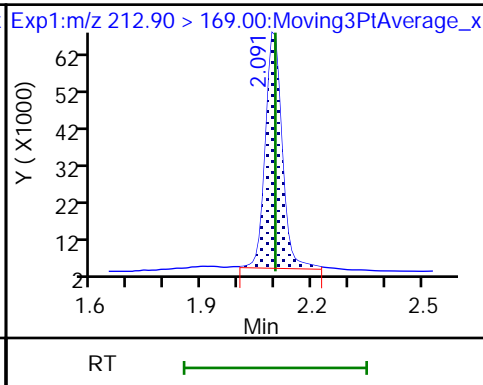
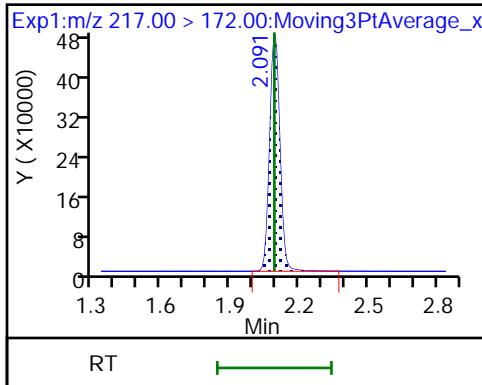
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

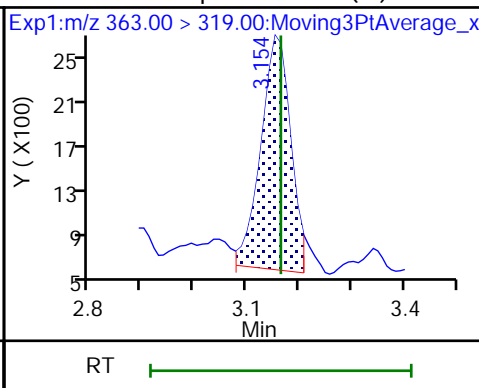
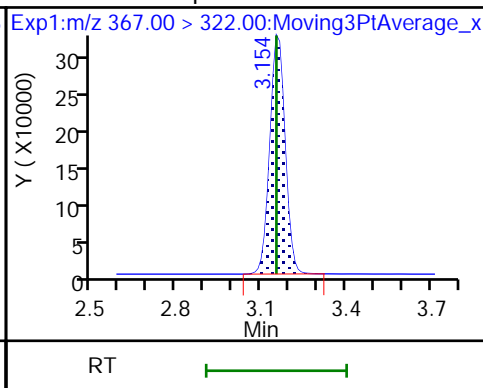
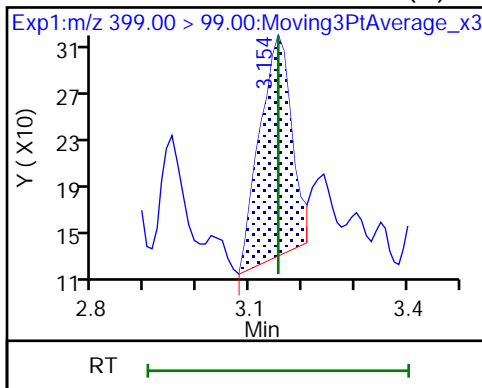
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

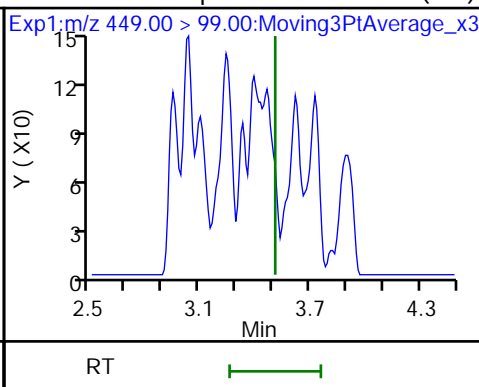
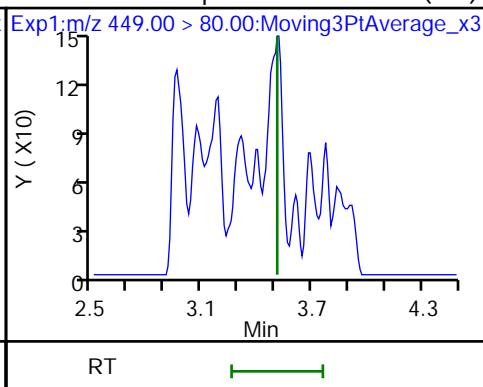
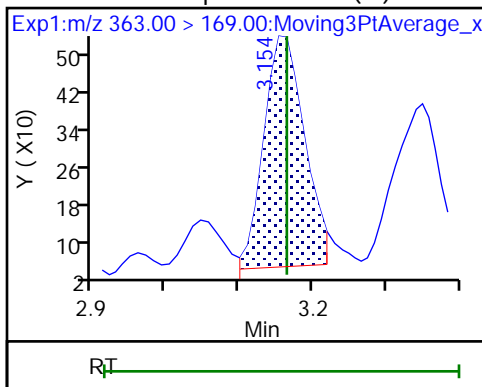
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (ND)

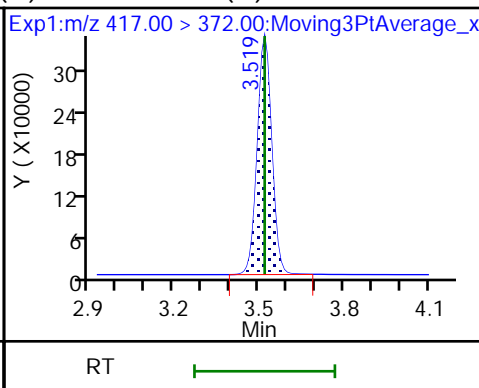
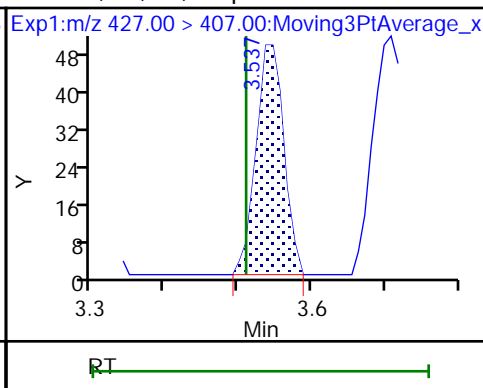
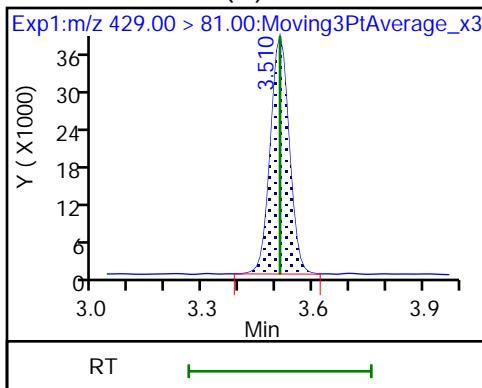
16 Perfluoroheptanesulfonic acid (ND)



D 12 M2-6:2 FTS (M)

13 1H,1H,2H,2H-perfluorooctanesulfo (M)

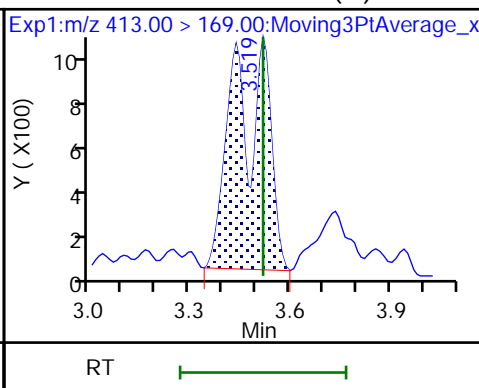
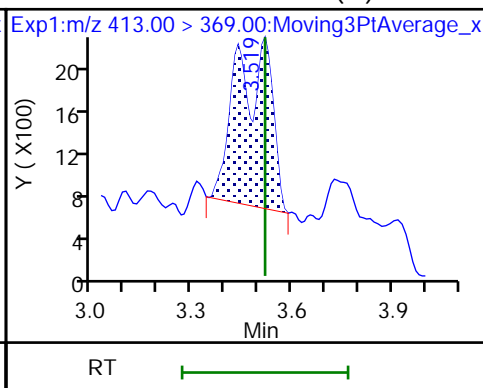
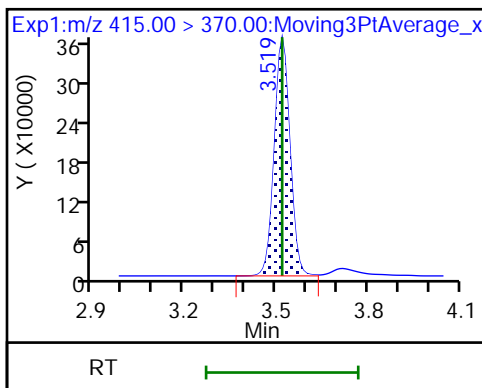
14 13C4 PFOA (M)



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

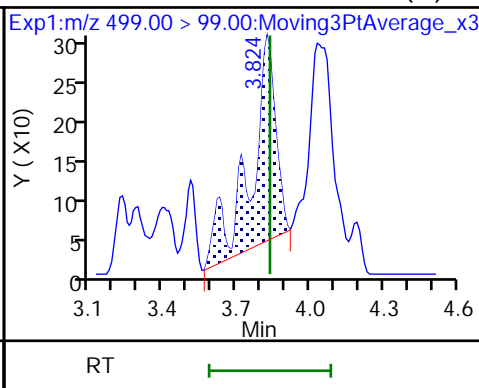
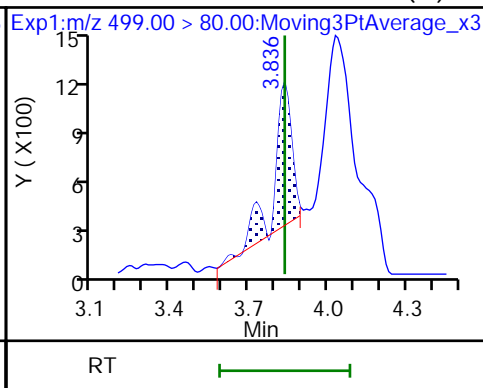
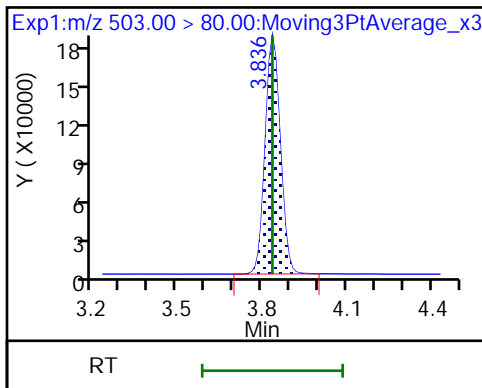
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

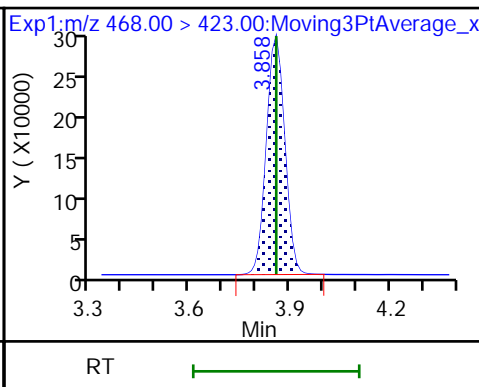
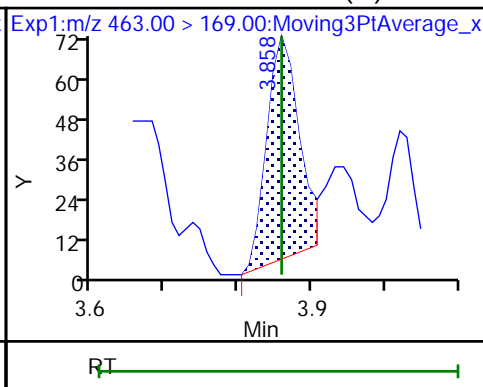
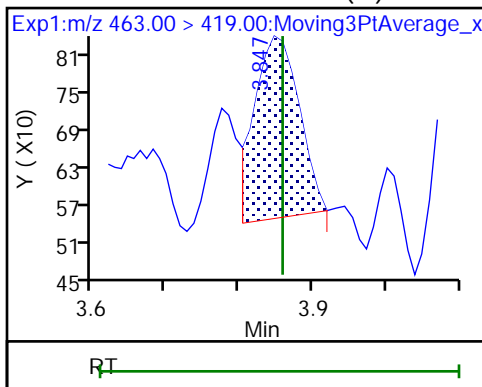
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

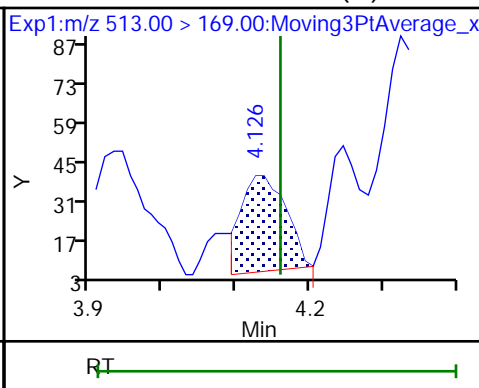
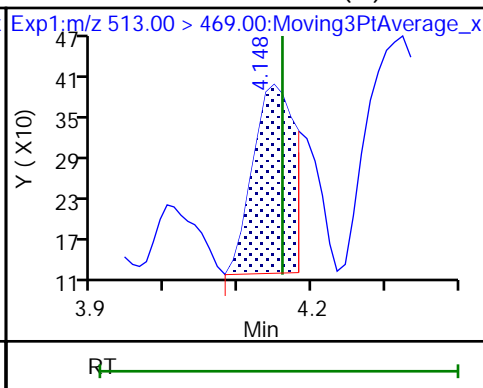
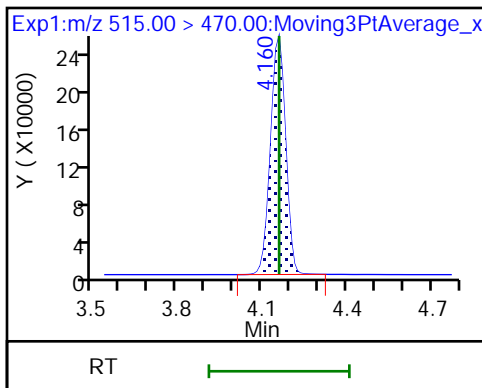
D 19 13C5 PFNA



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

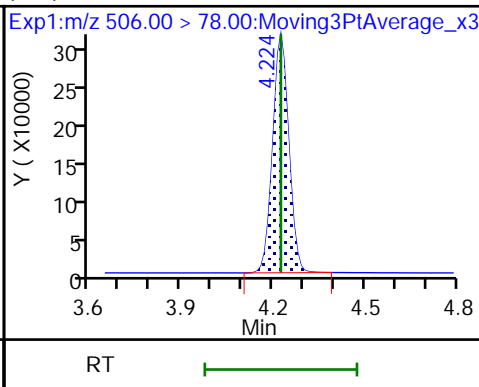
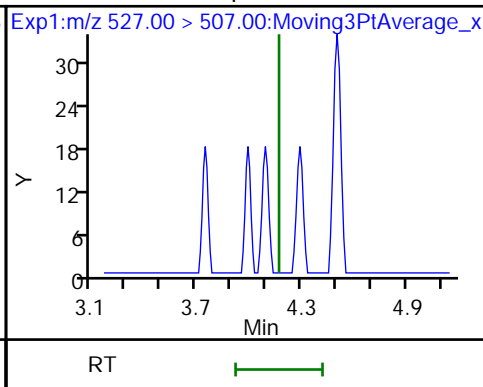
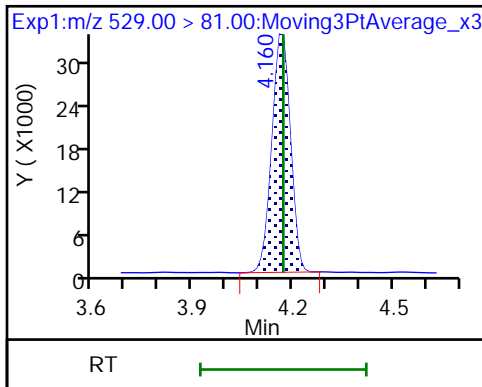
24 Perfluorodecanoic acid (M)

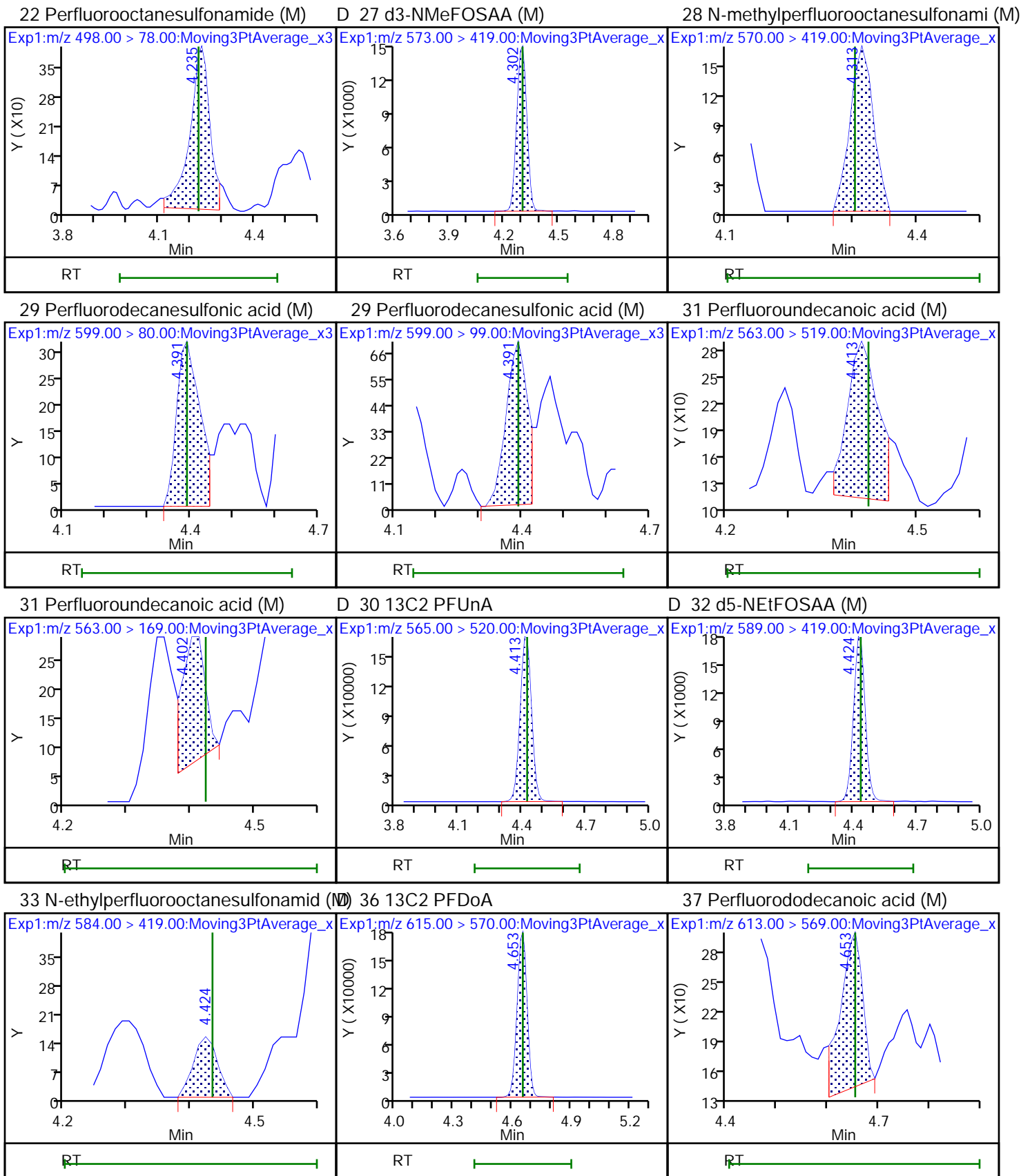


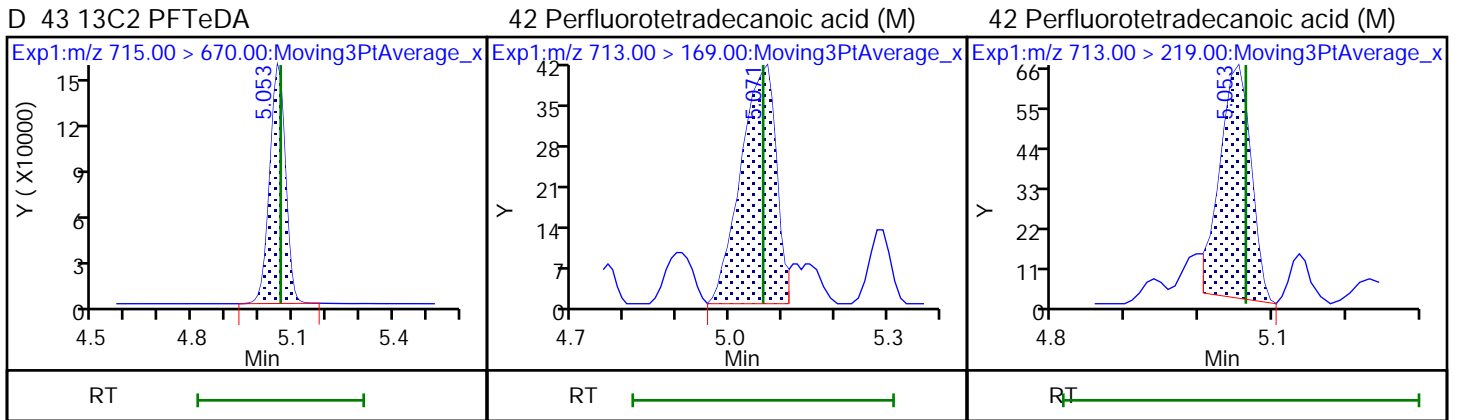
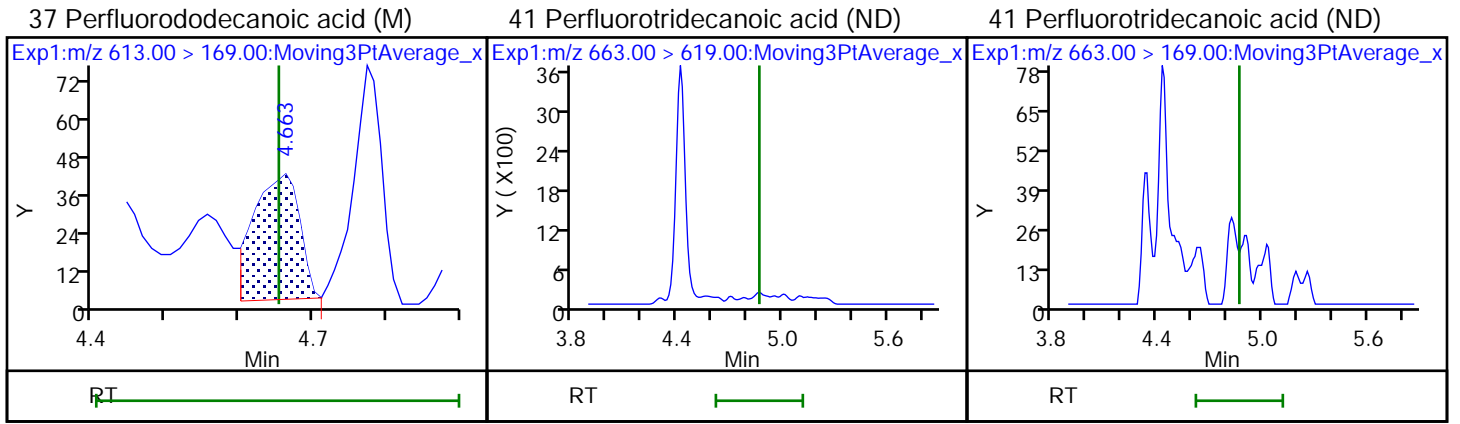
D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

(ND) 13C8 FOSA







Euofins TestAmerica, Burlington

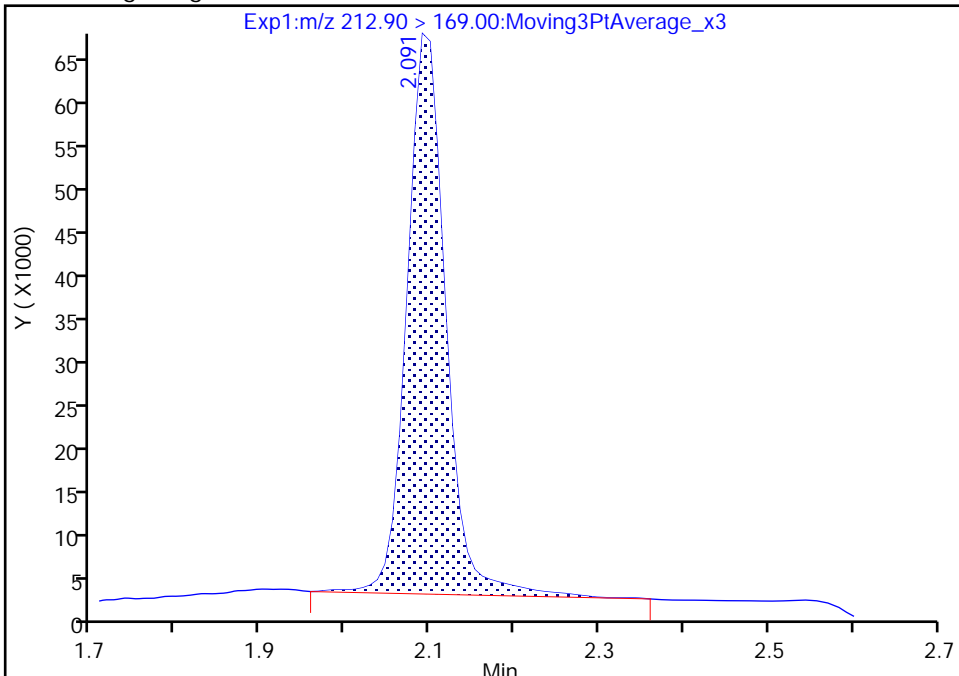
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

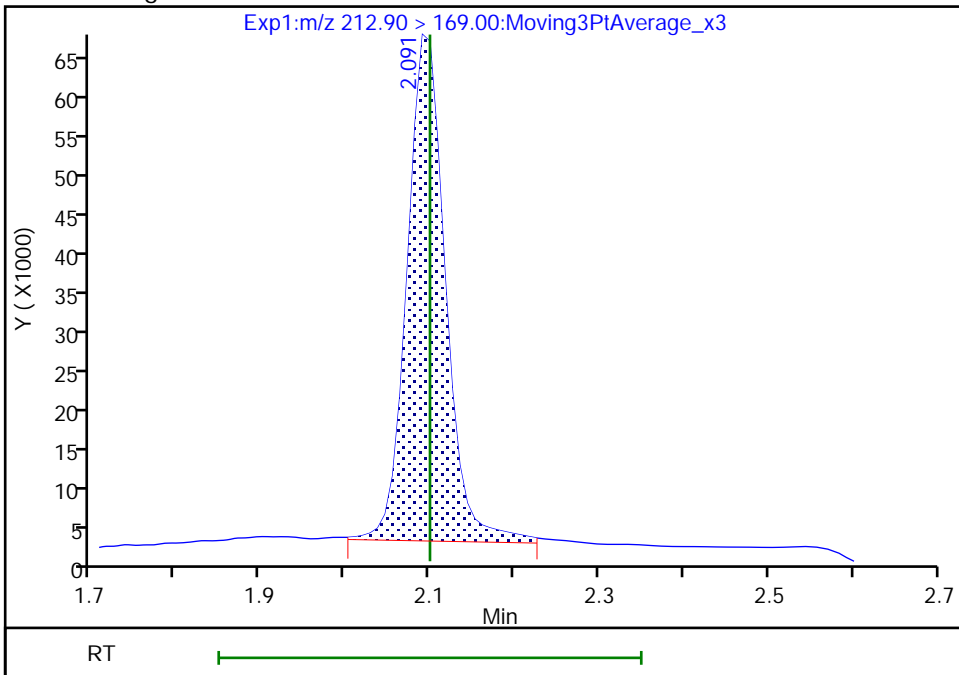
RT: 2.09
Area: 205158
Amount: 0.188776
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 202735
Amount: 0.186547
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:58:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

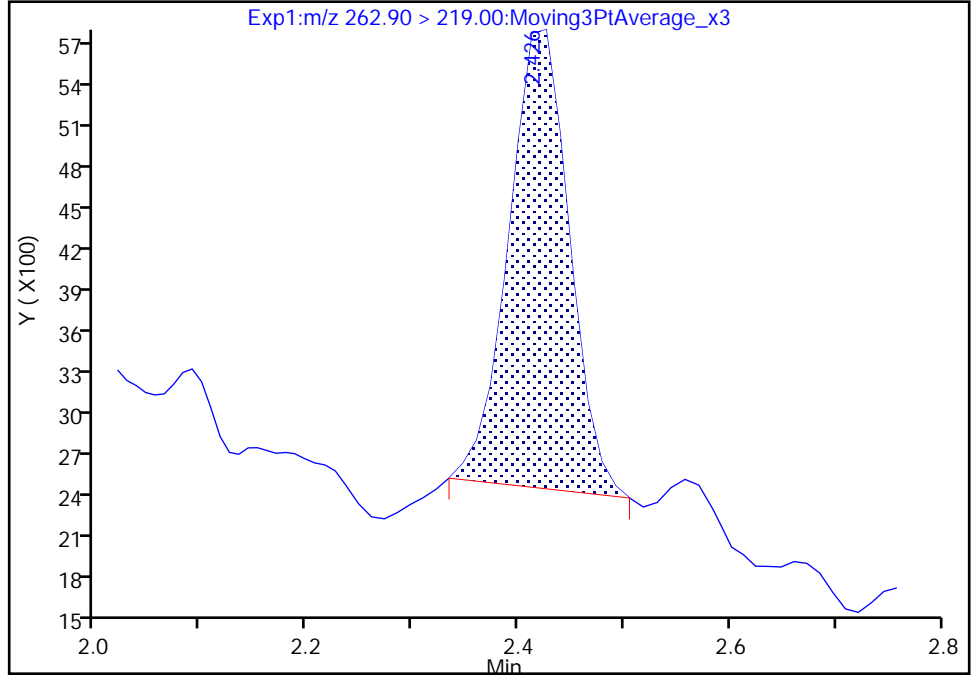
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

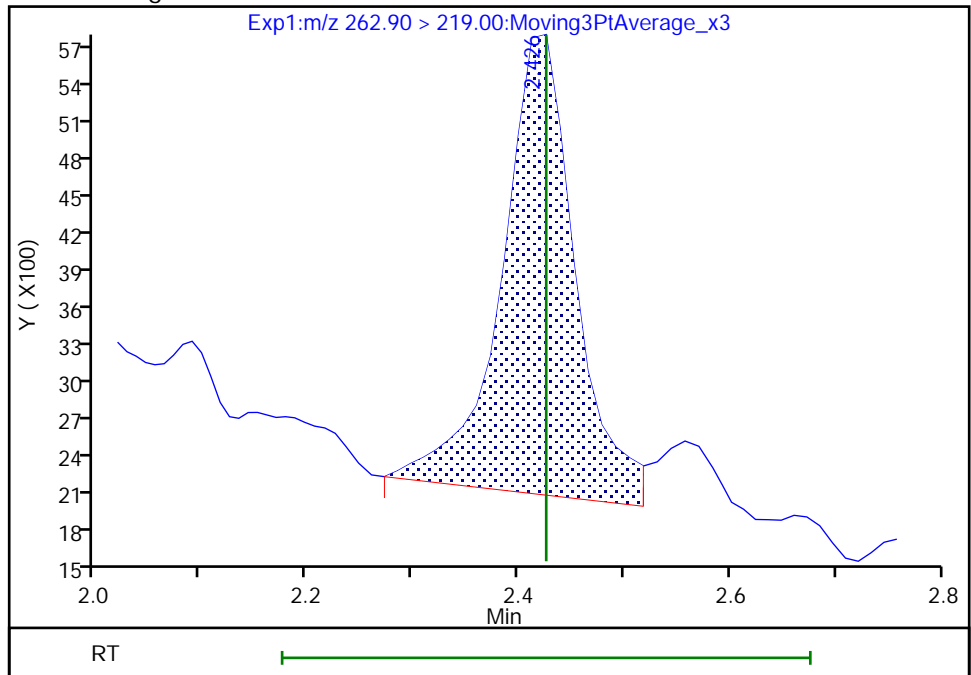
RT: 2.43
Area: 13175
Amount: 0.015387
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 17758
Amount: 0.020739
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:58:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

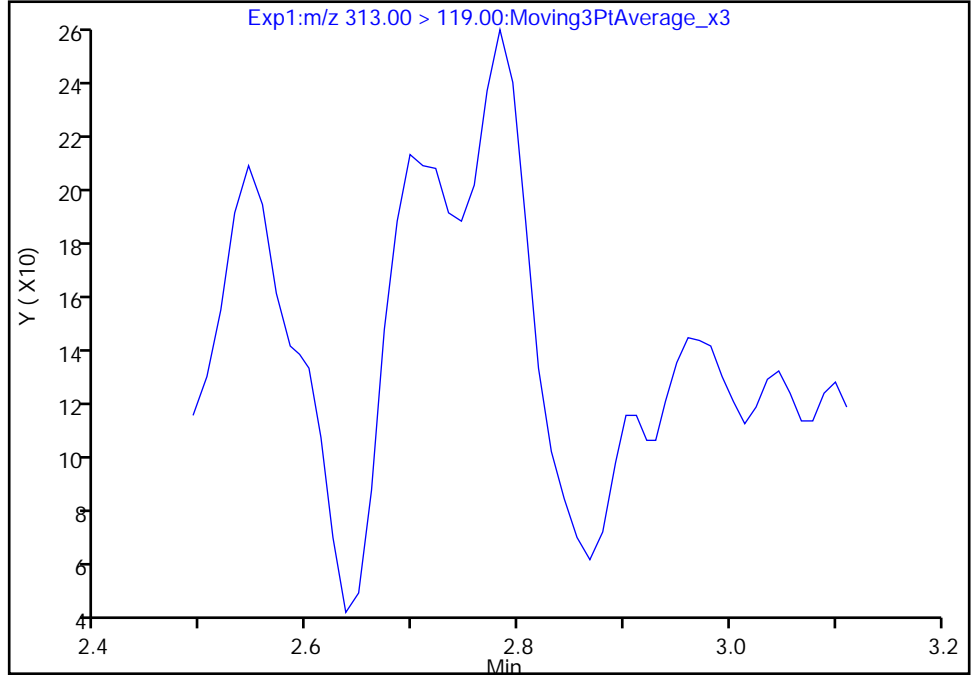
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

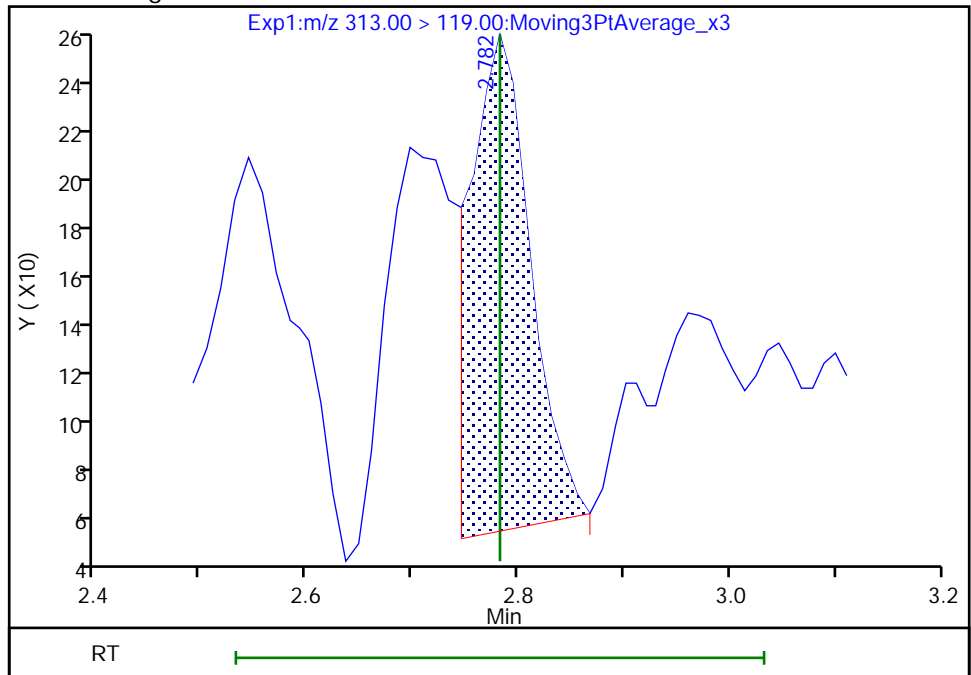
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.78
Area: 757
Amount: 0.012292
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 09:59:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

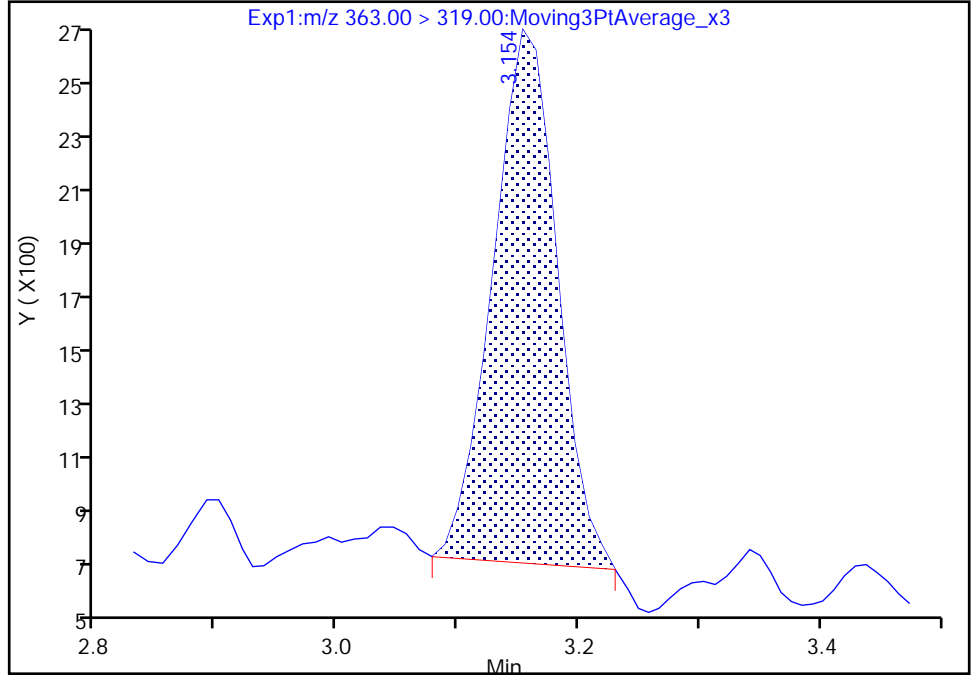
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

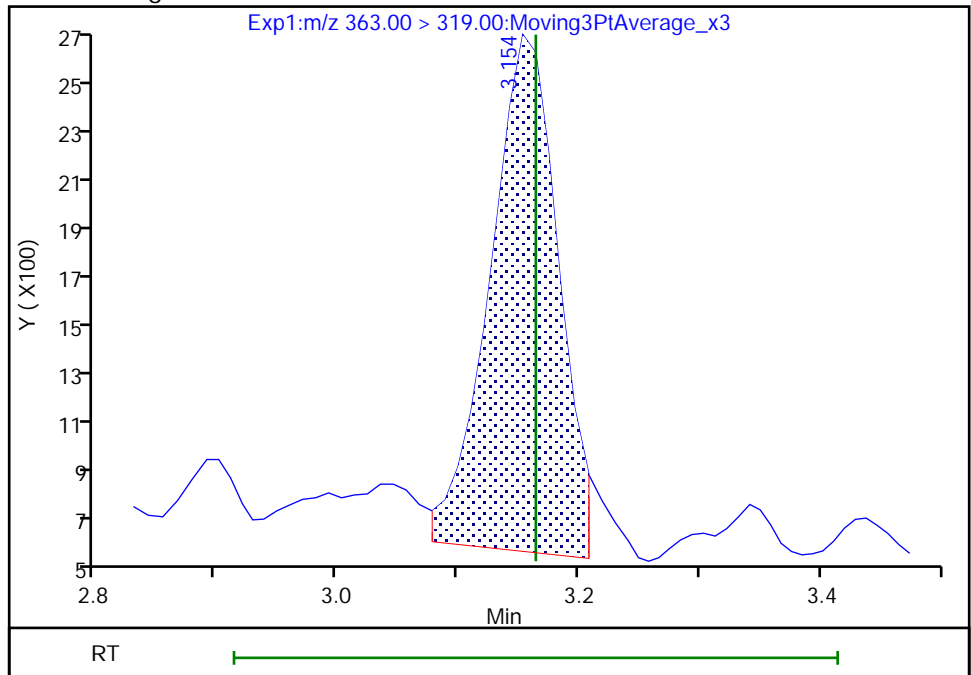
RT: 3.15
Area: 6948
Amount: 0.007046
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 7870
Amount: 0.007981
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 24-May-2021 16:29:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

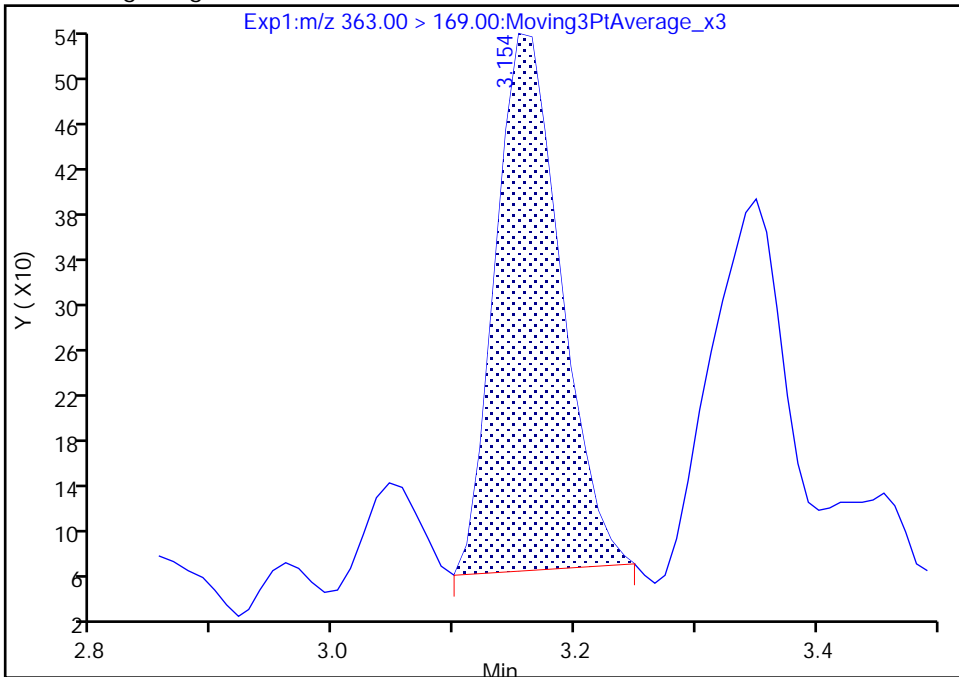
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

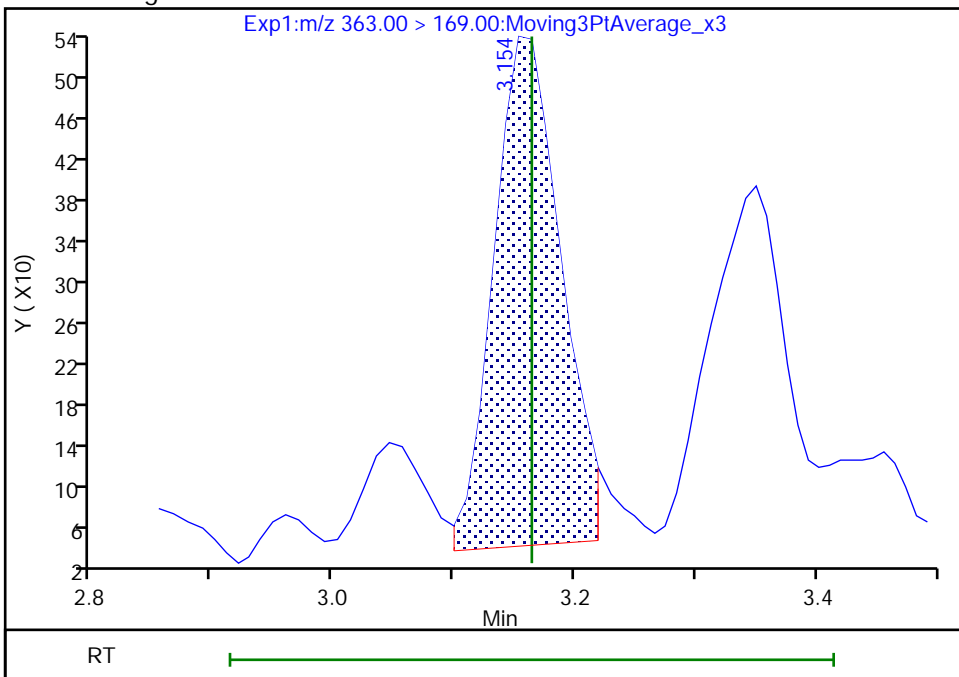
RT: 3.15
Area: 1770
Amount: 0.007046
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 1900
Amount: 0.007981
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

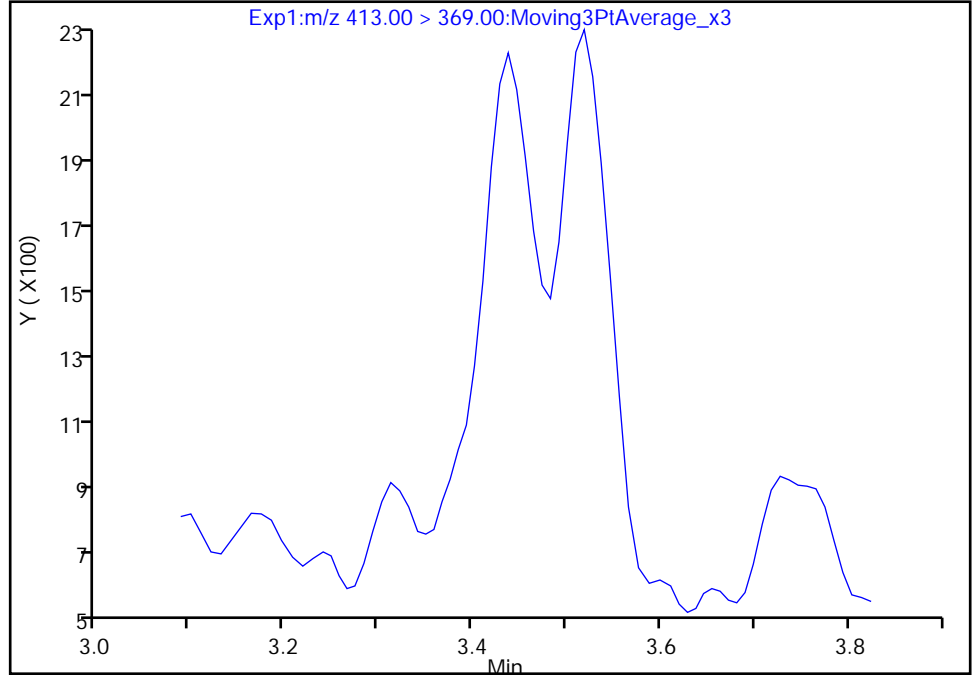
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

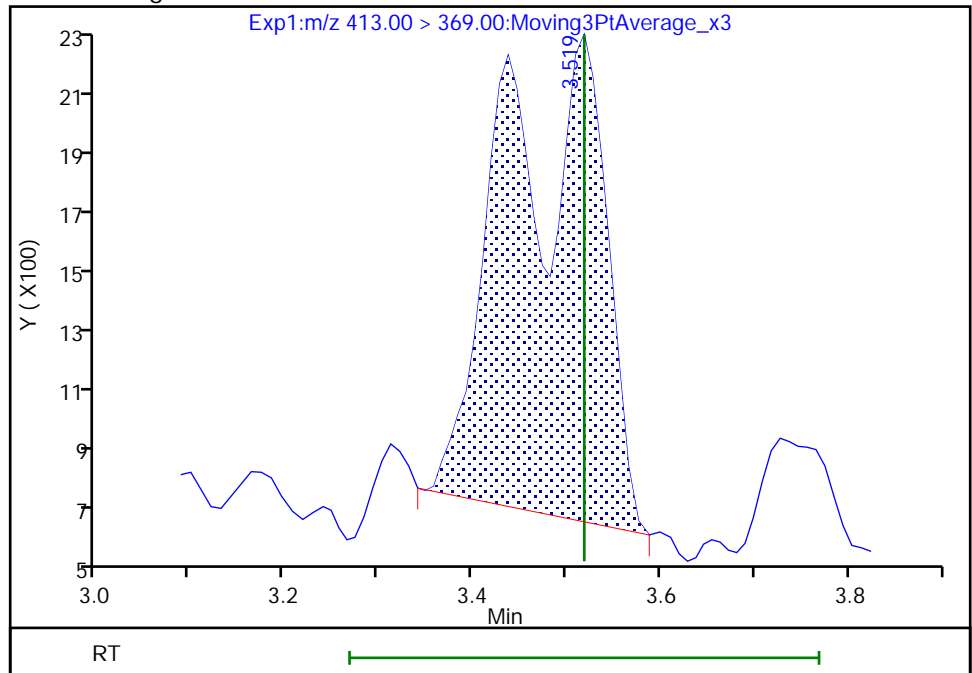
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 11662
Amount: 0.011678
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:01:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

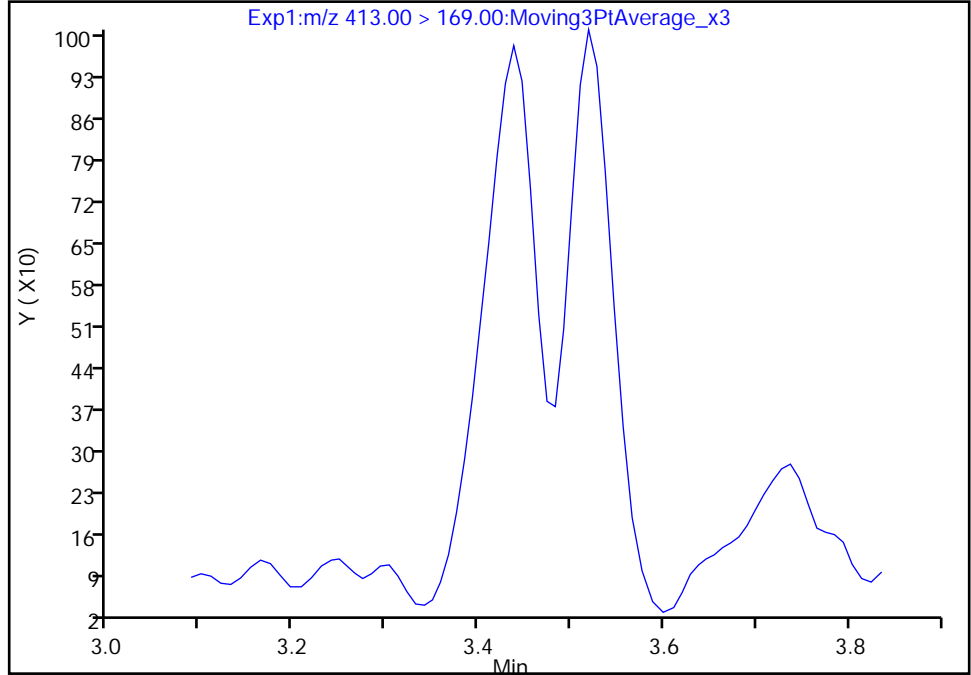
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

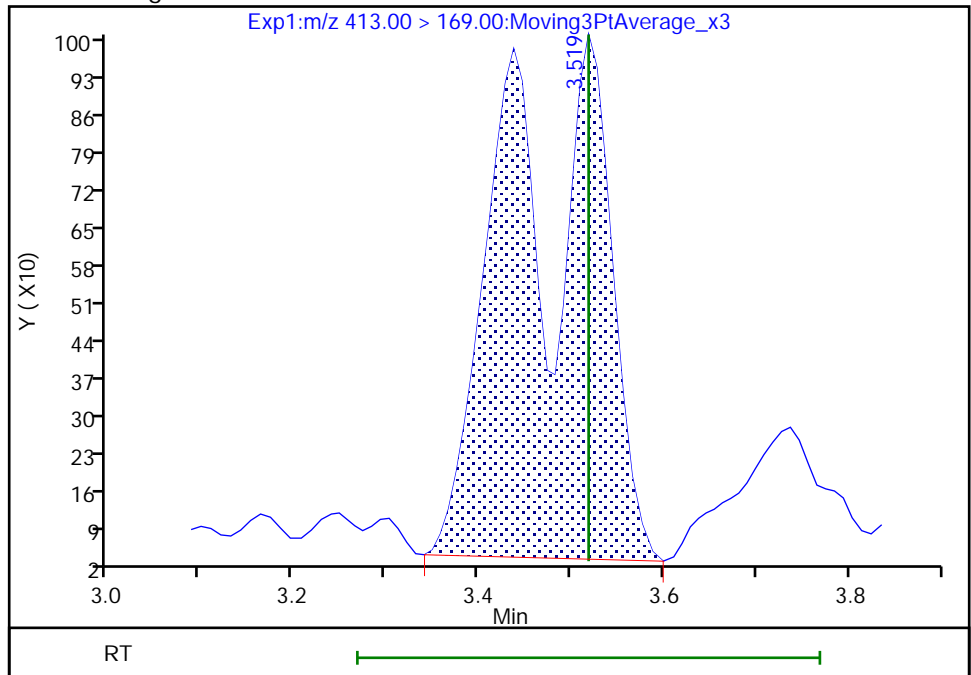
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 7127
Amount: 0.011678
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

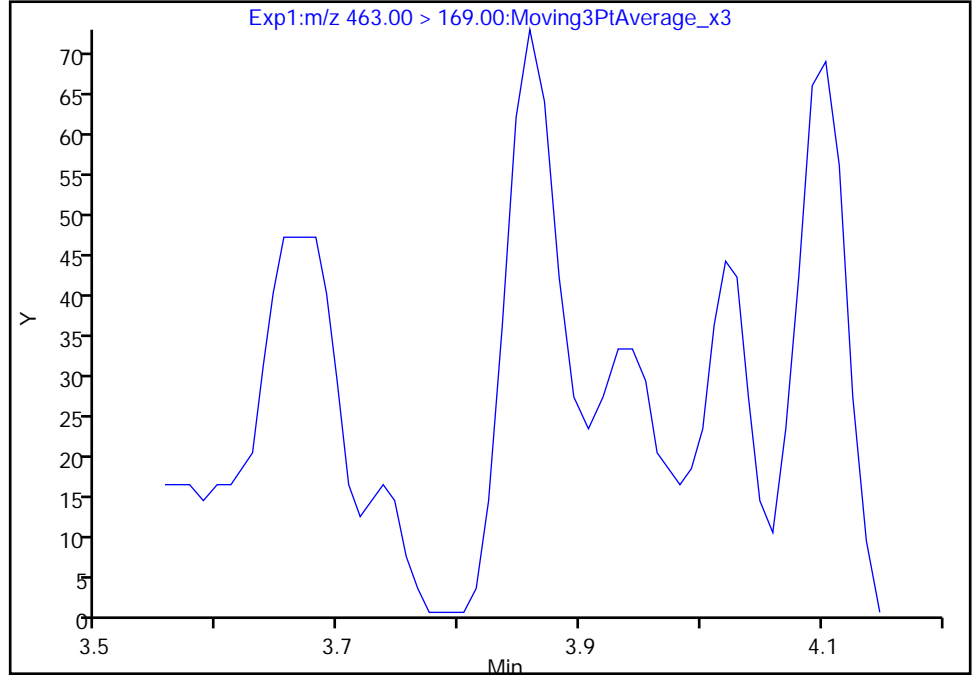
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

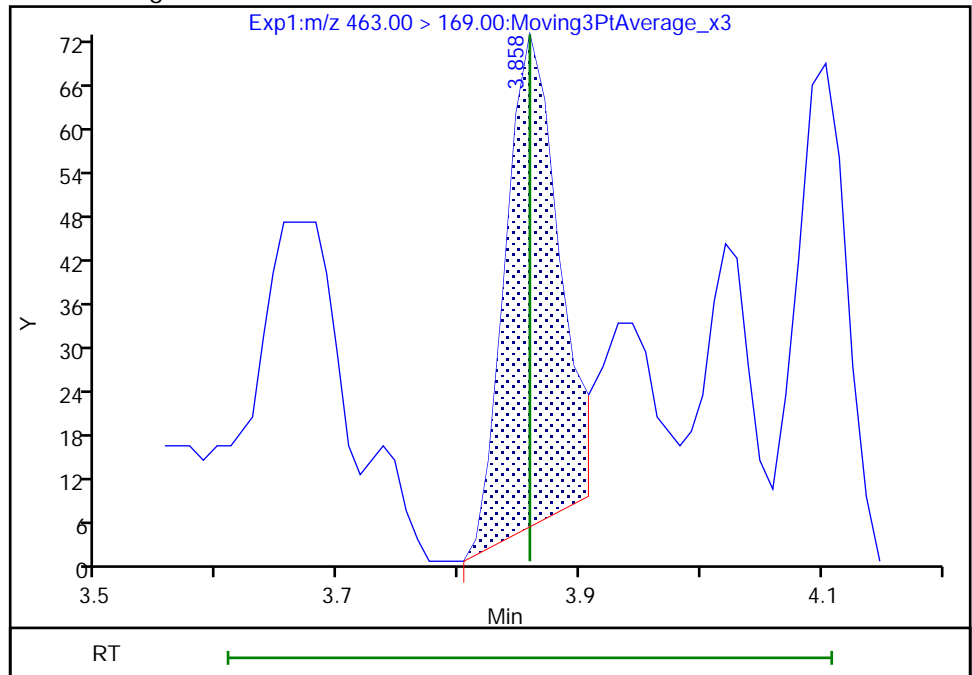
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.86
Area: 206
Amount: 0.001397
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:02:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

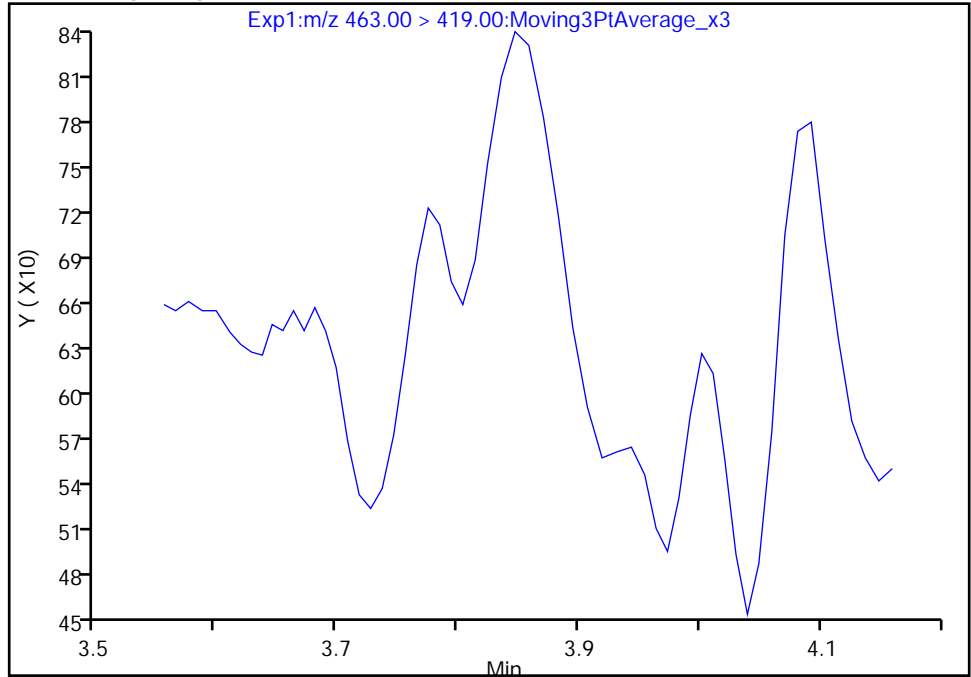
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

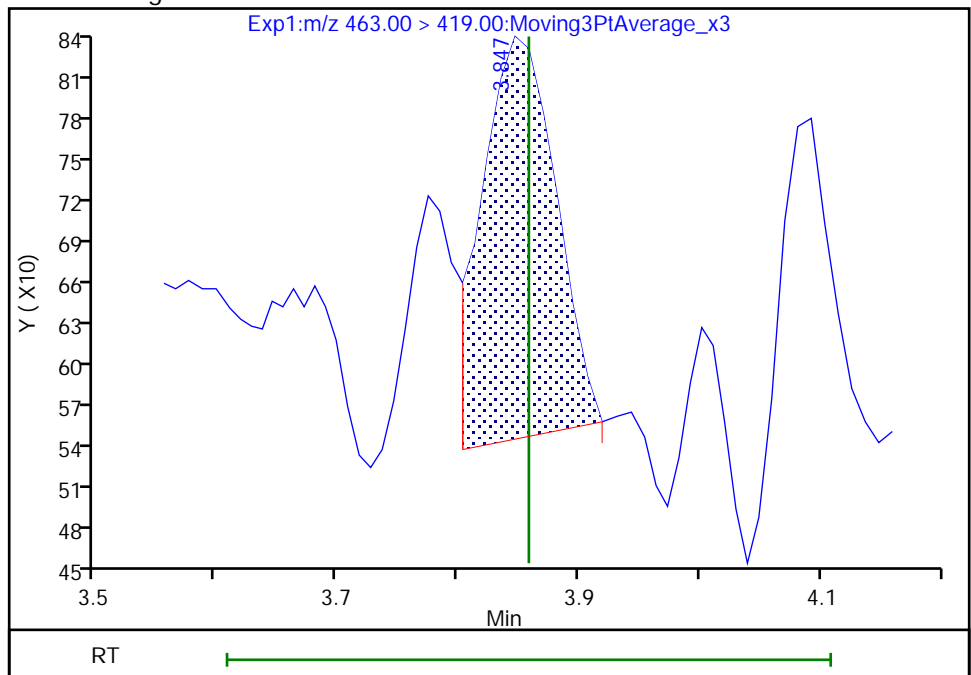
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.85
Area: 1215
Amount: 0.001397
Amount Units: ng/ml



Euofins TestAmerica, Burlington

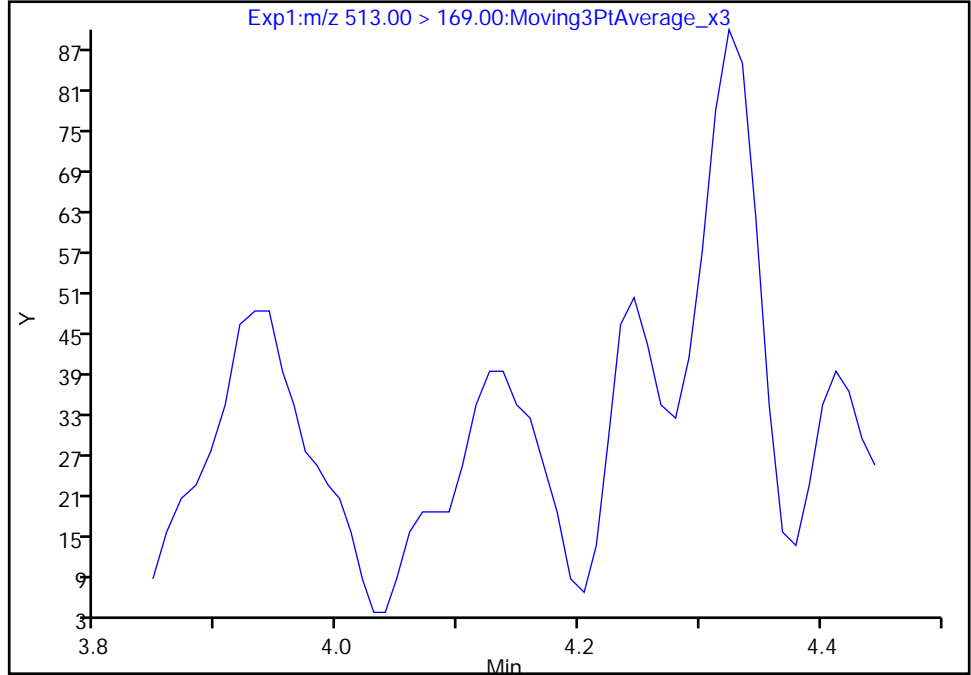
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

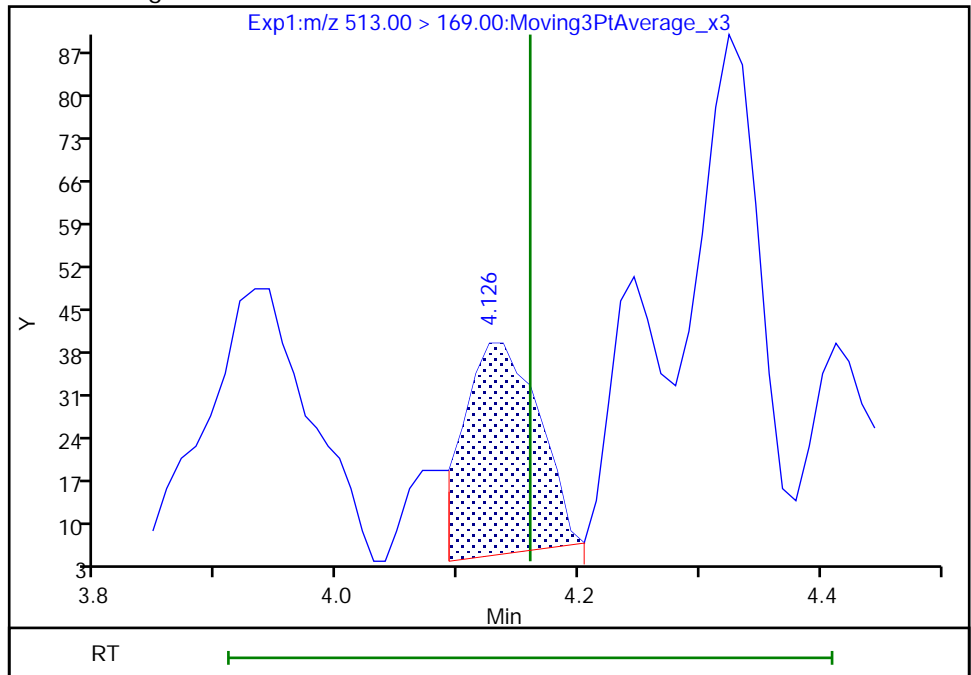
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.13
Area: 148
Amount: 0.001338
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:03:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

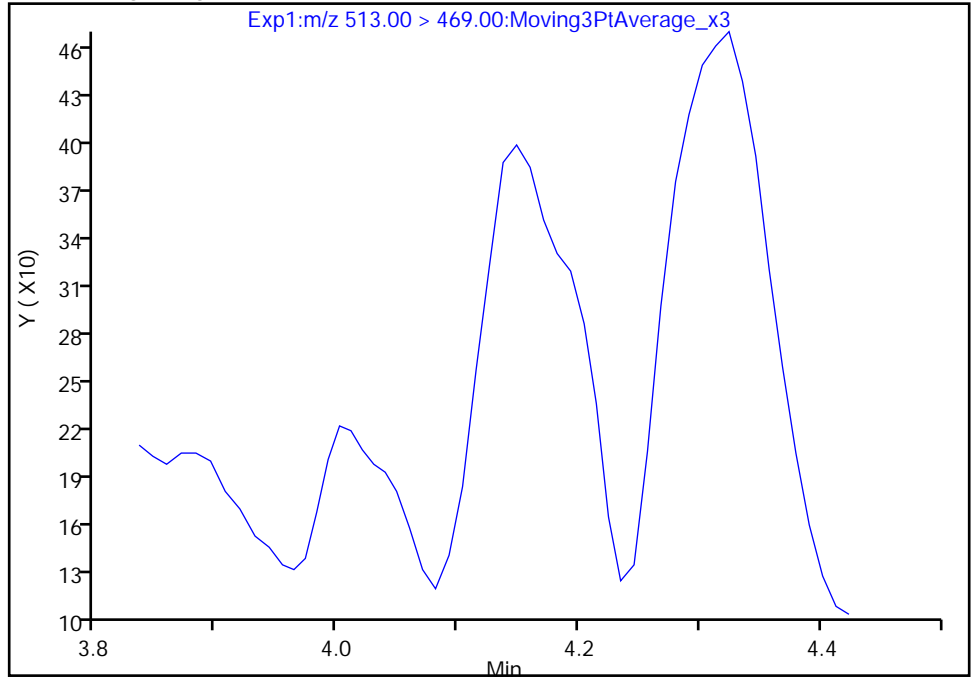
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

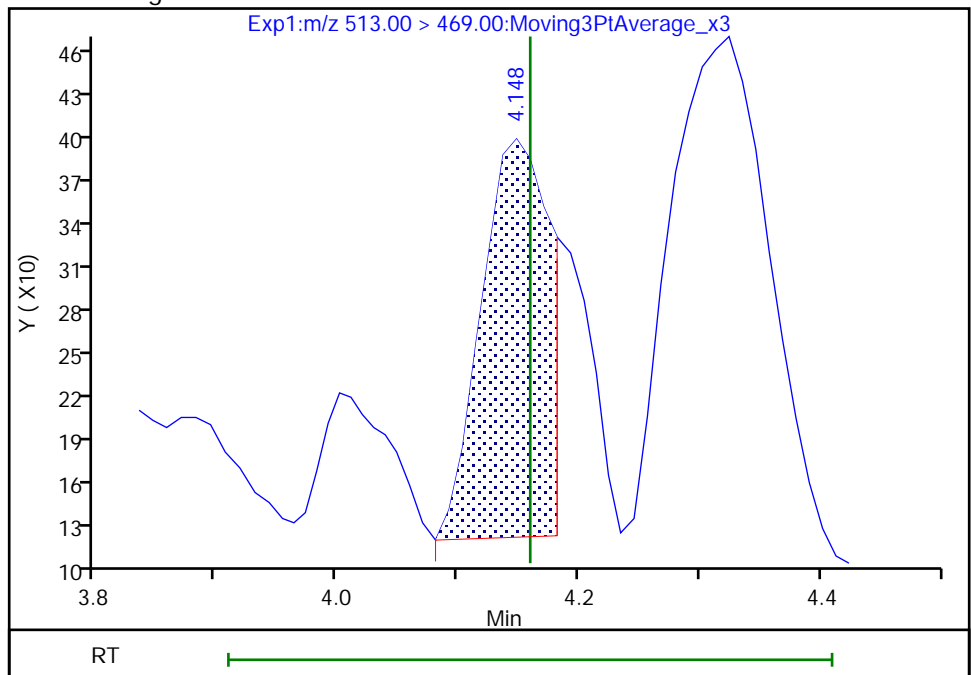
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 1044
Amount: 0.001338
Amount Units: ng/ml



Euofins TestAmerica, Burlington

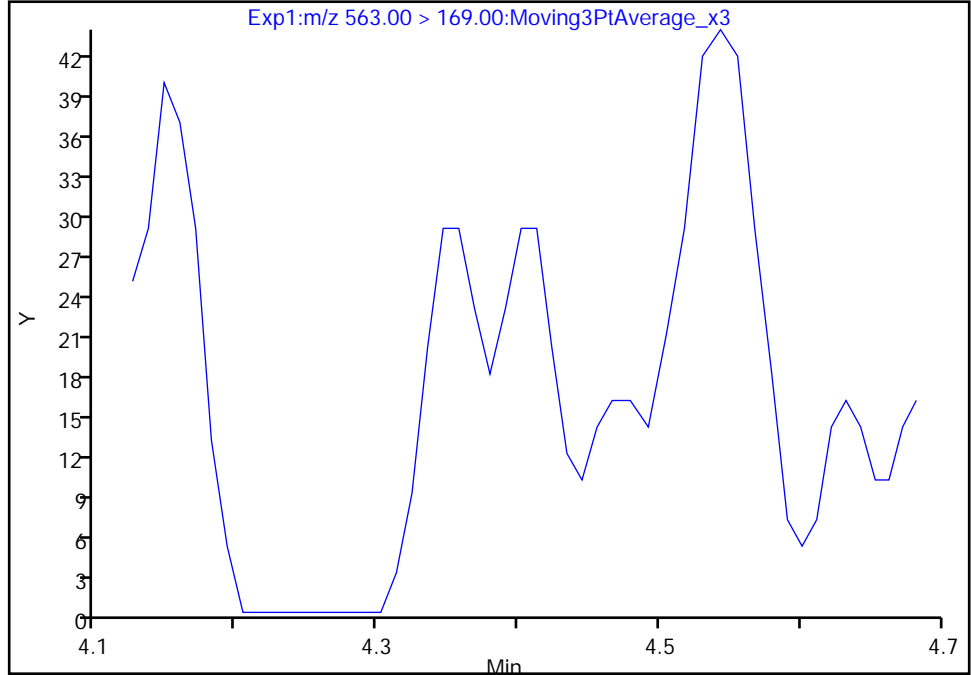
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

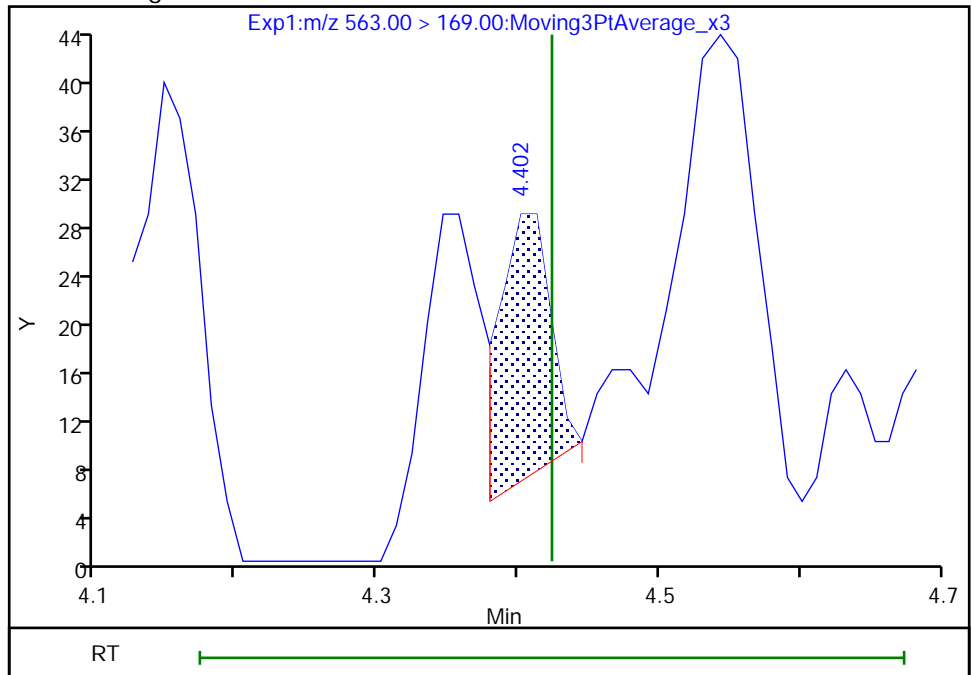
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 53
Amount: 0.001164
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:05:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

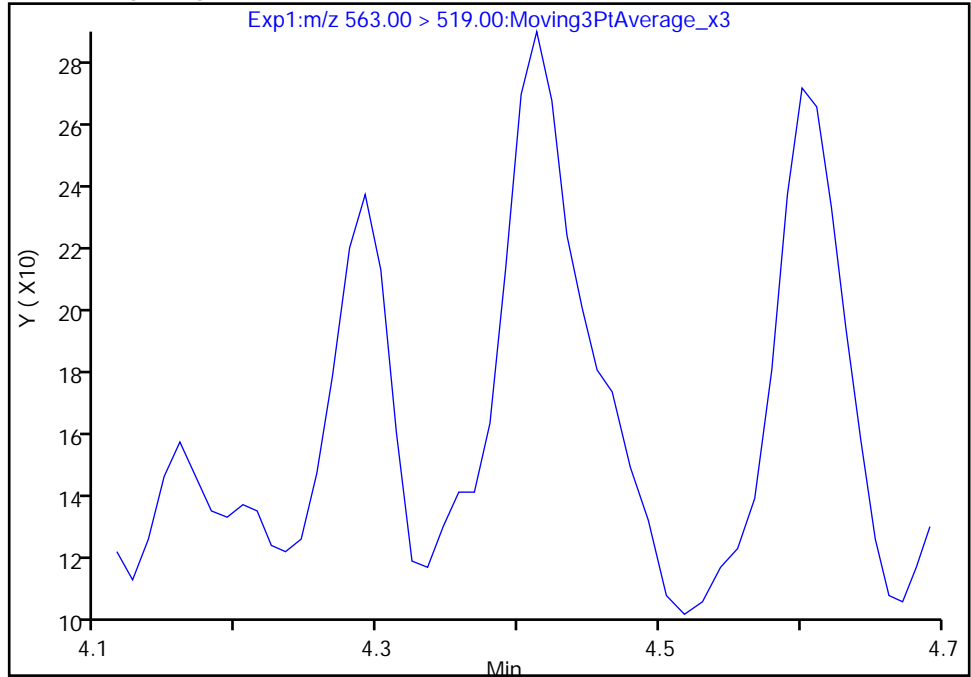
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

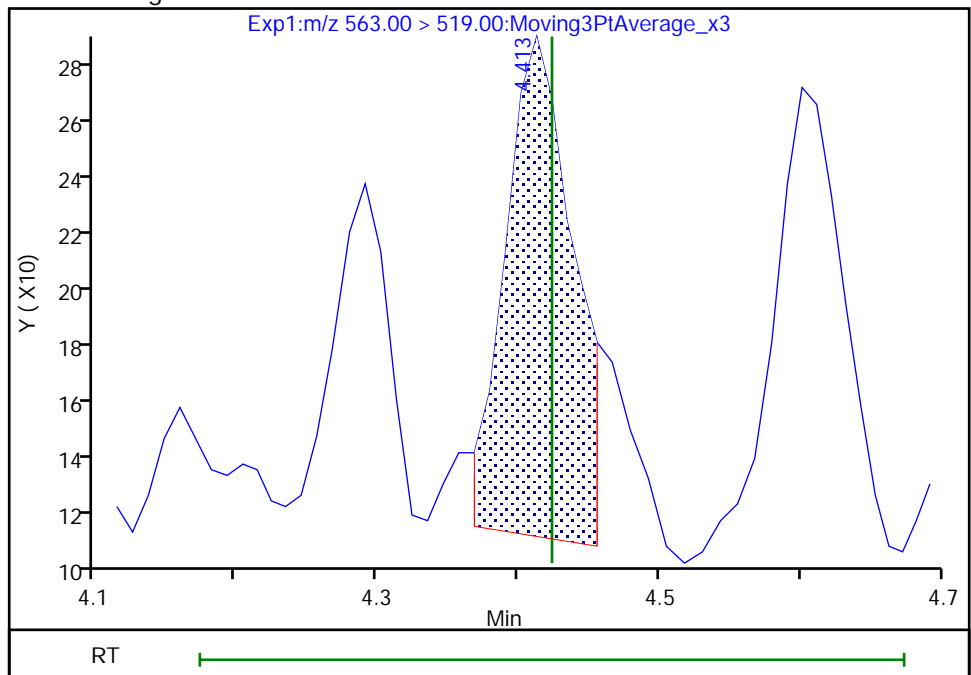
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 579
Amount: 0.001164
Amount Units: ng/ml



Euofins TestAmerica, Burlington

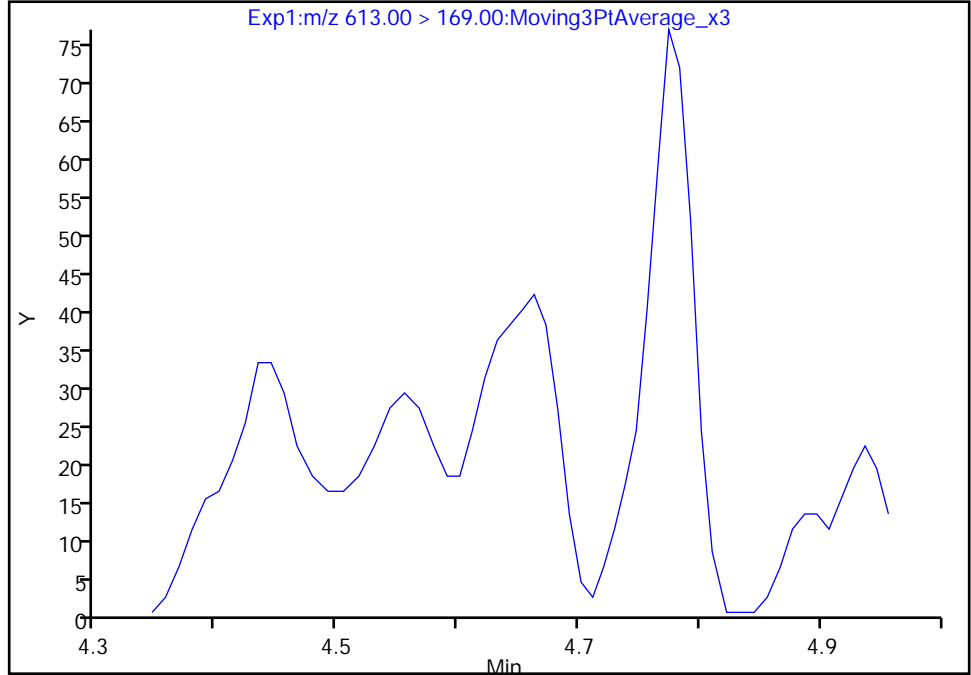
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

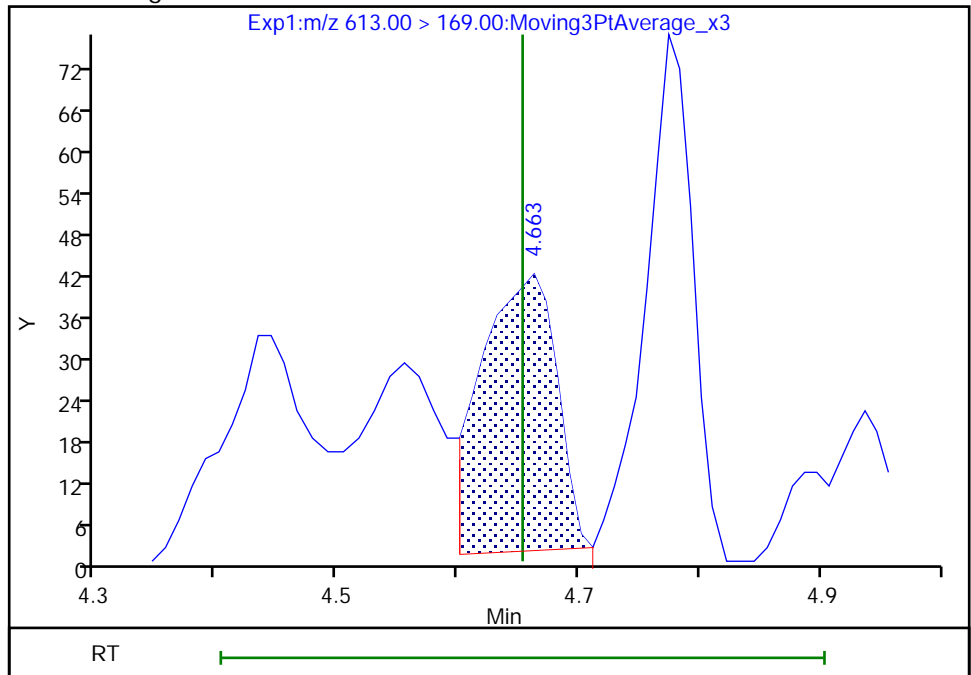
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.66
Area: 173
Amount: 0.000905
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:07:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

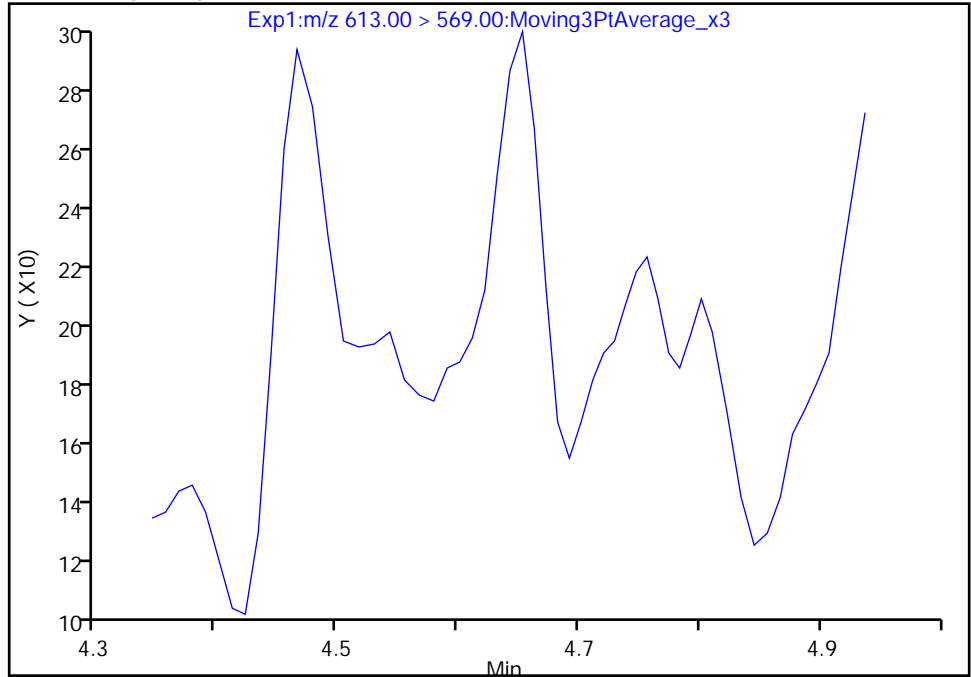
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

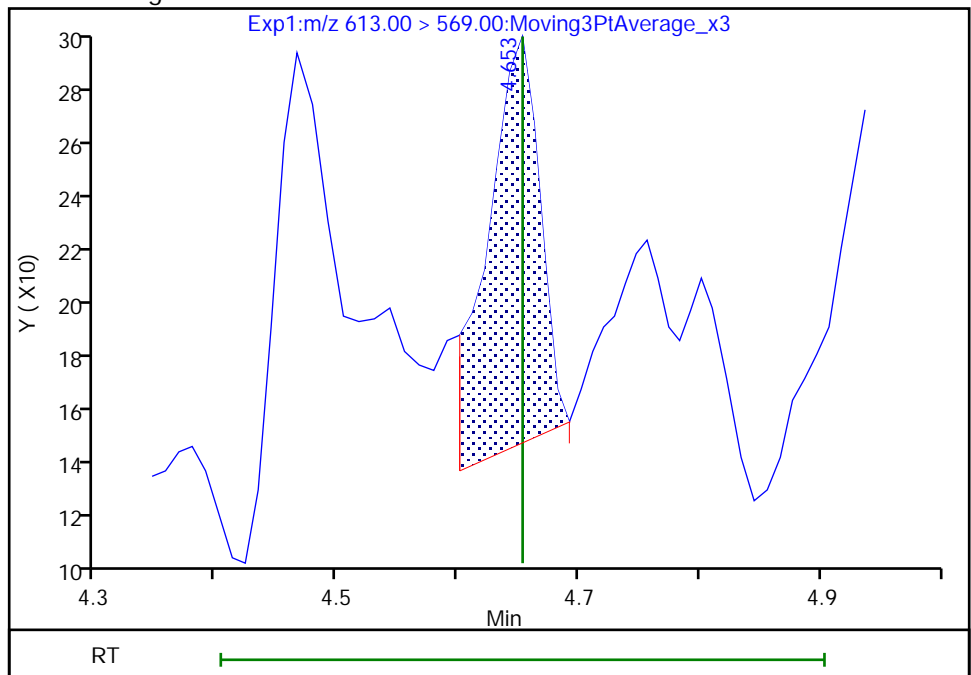
Not Detected
Expected RT: 4.65

Processing Integration Results



RT: 4.65
Area: 448
Amount: 0.000905
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:07:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

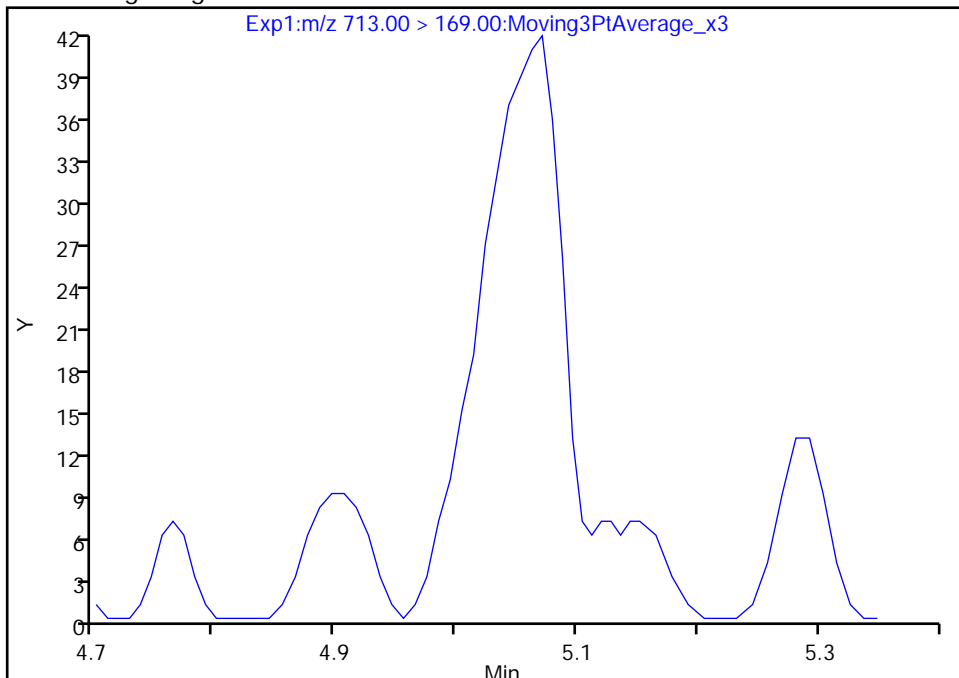
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

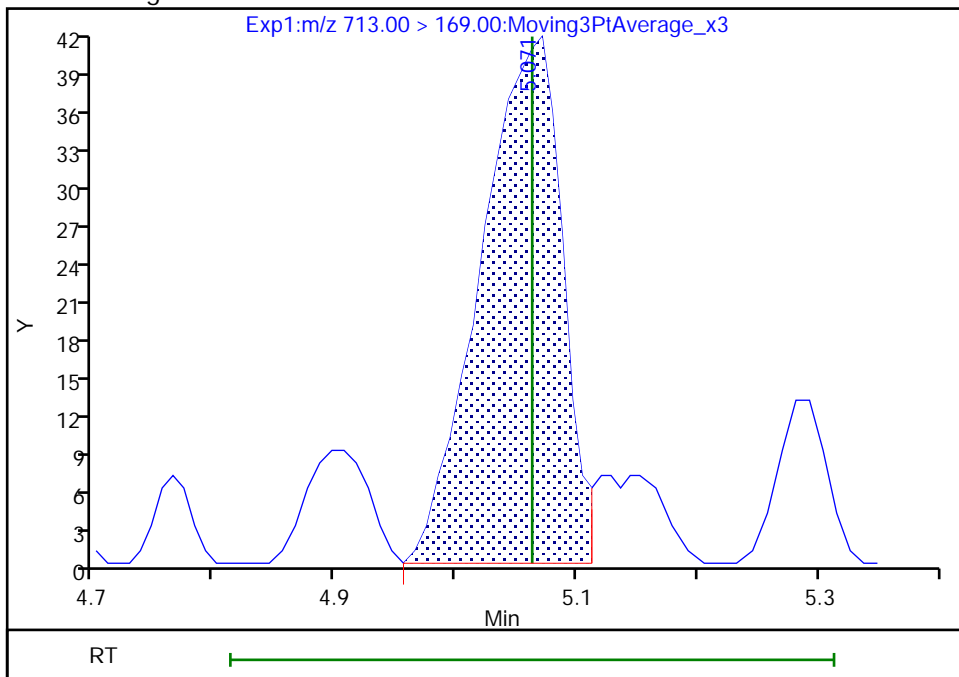
Signal: 1

Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results



RT: 5.07
Area: 196
Amount: 0.002391
Amount Units: ng/ml

Reviewer: nampitakw, 24-May-2021 10:07:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

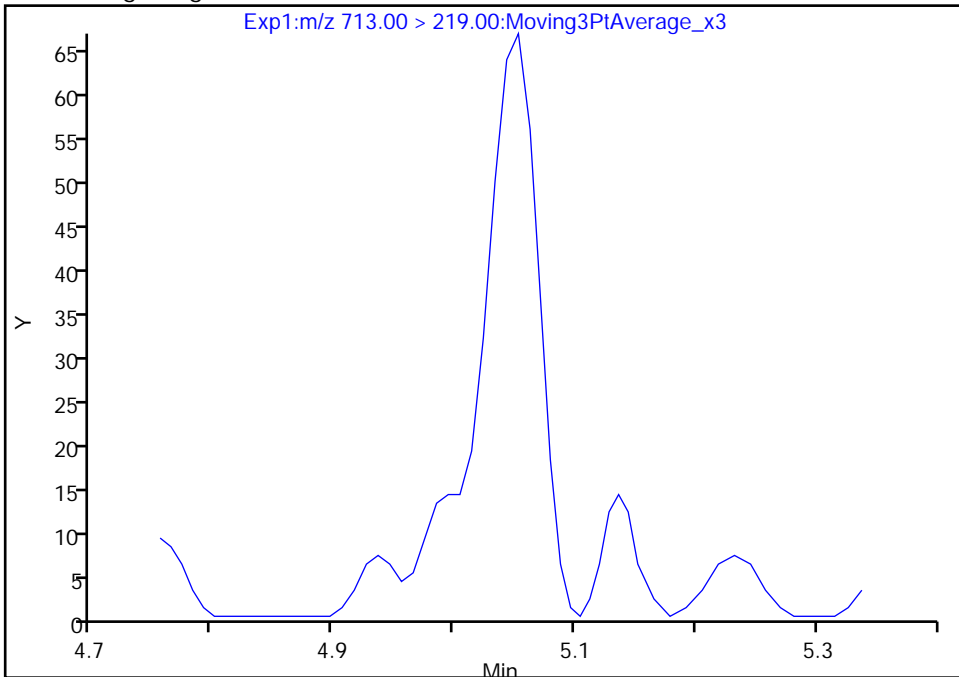
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

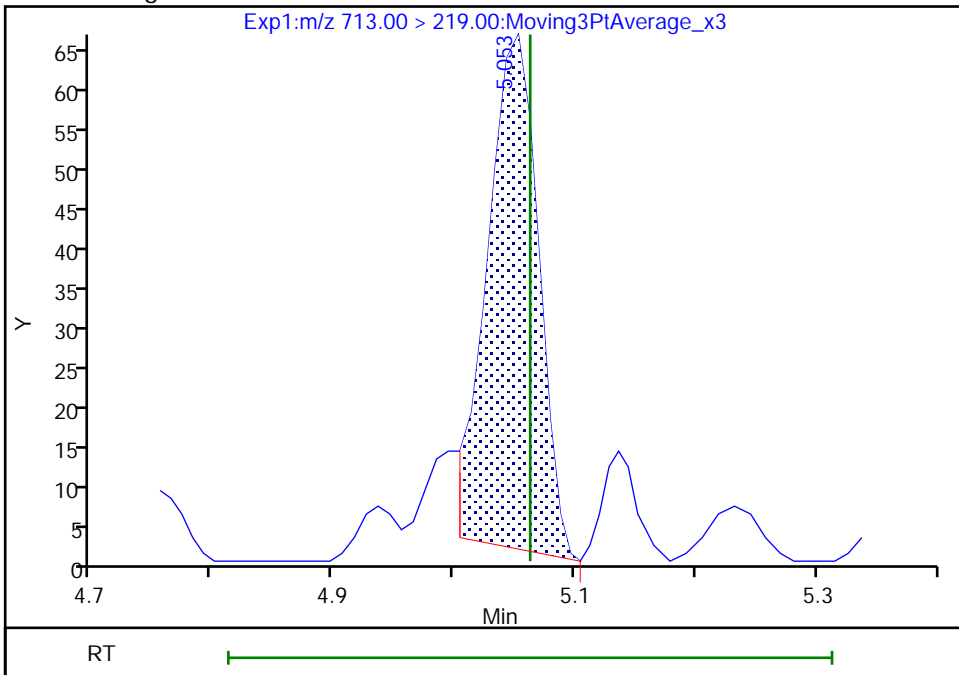
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.05
Area: 191
Amount: 0.002391
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

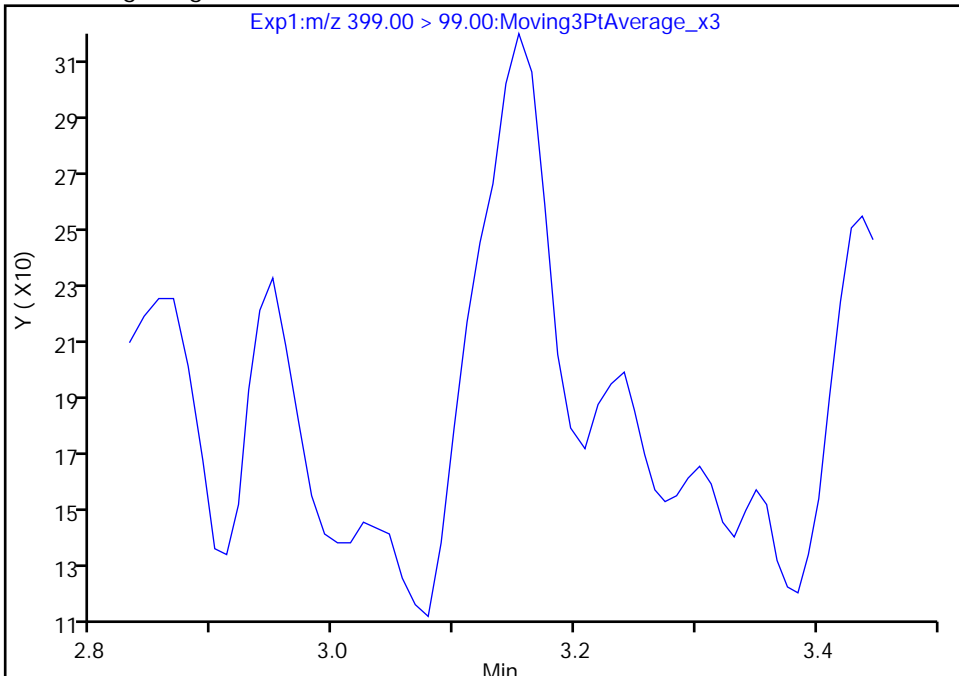
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

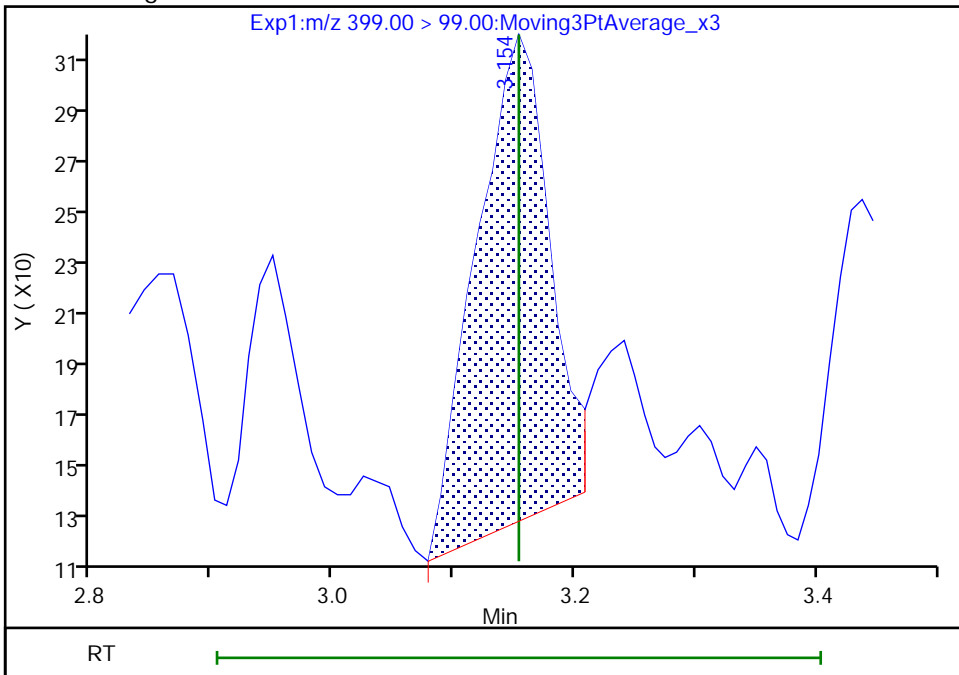
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.15
Area: 770
Amount: 0.006981
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:00:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

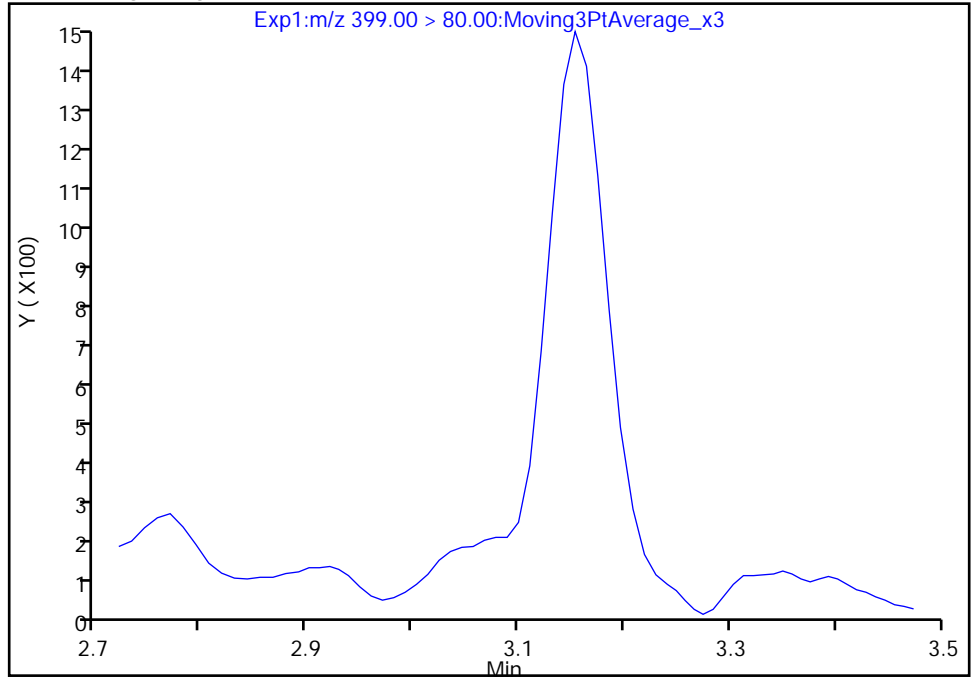
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

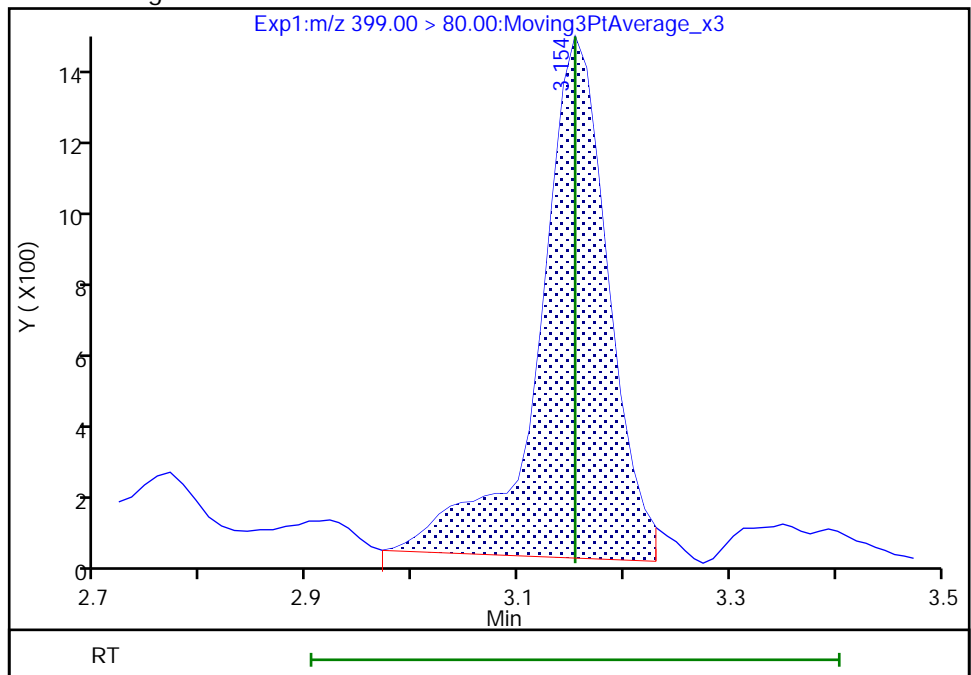
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.15
Area: 6341
Amount: 0.006981
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

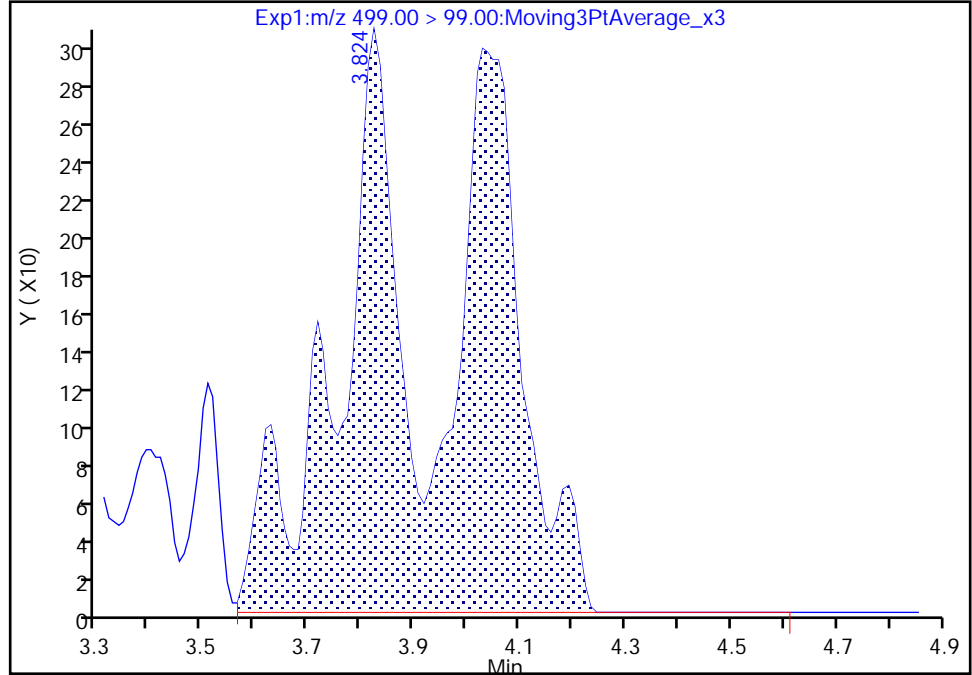
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

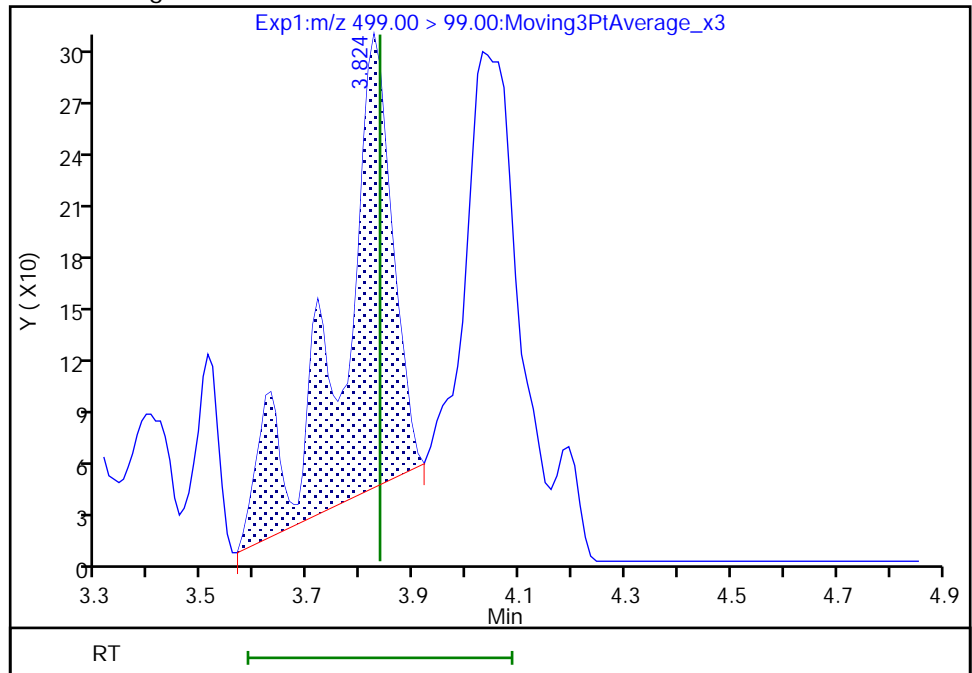
RT: 3.82
Area: 4985
Amount: 0.034907
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 1846
Amount: 0.006444
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:02:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

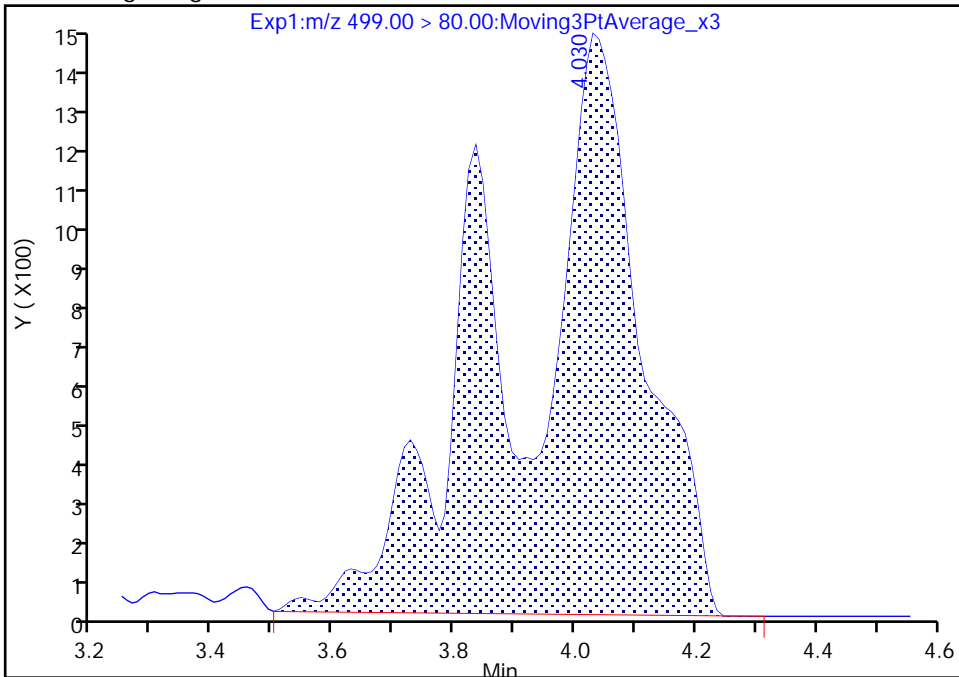
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

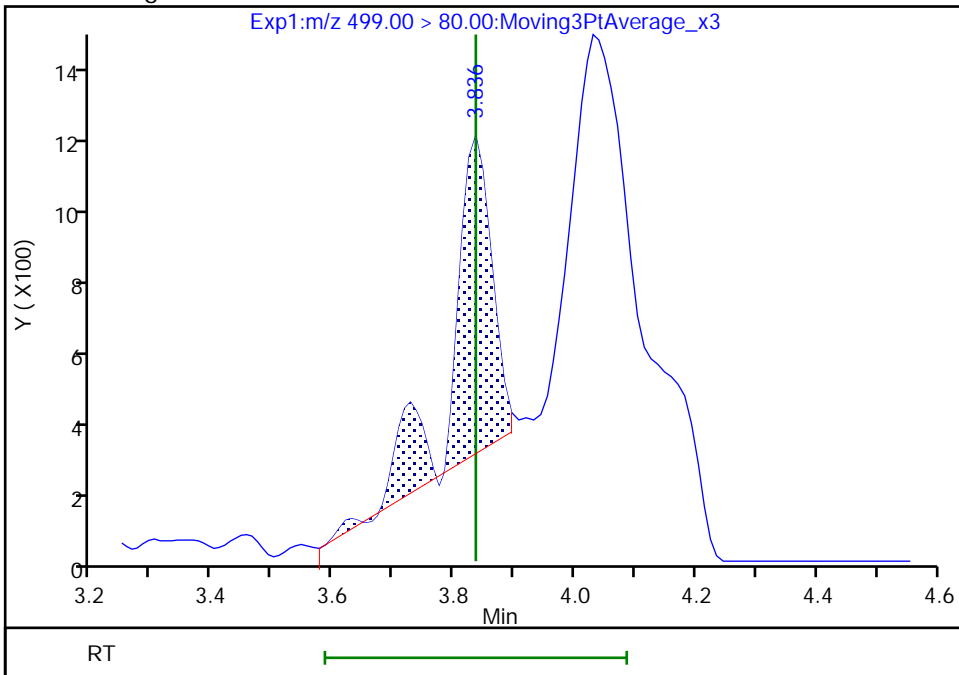
RT: 4.03
Area: 21718
Amount: 0.034907
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 4009
Amount: 0.006444
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 24-May-2021 16:30:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

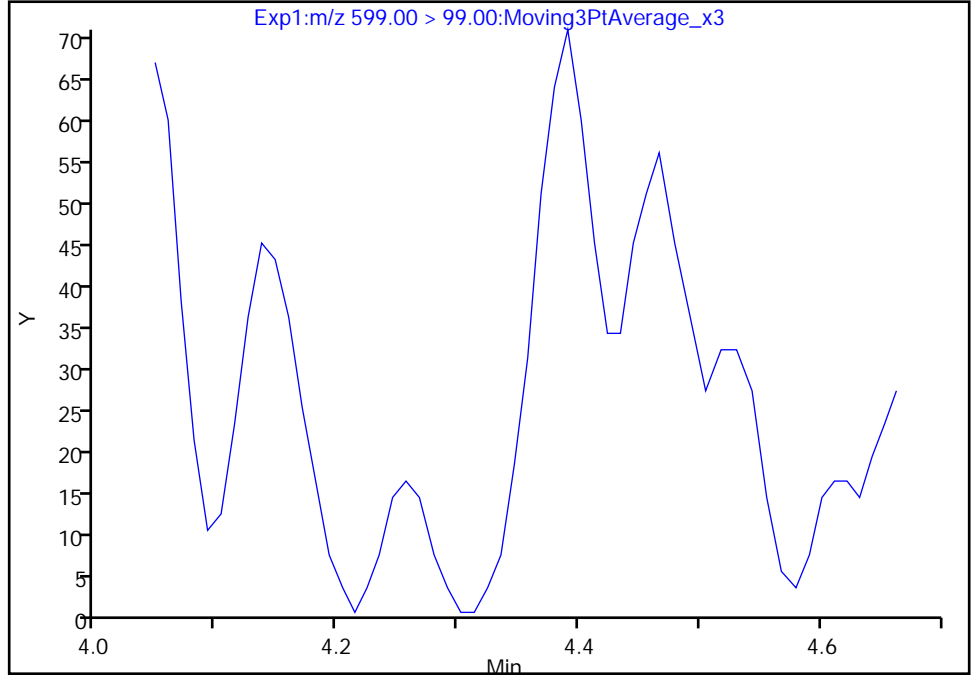
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

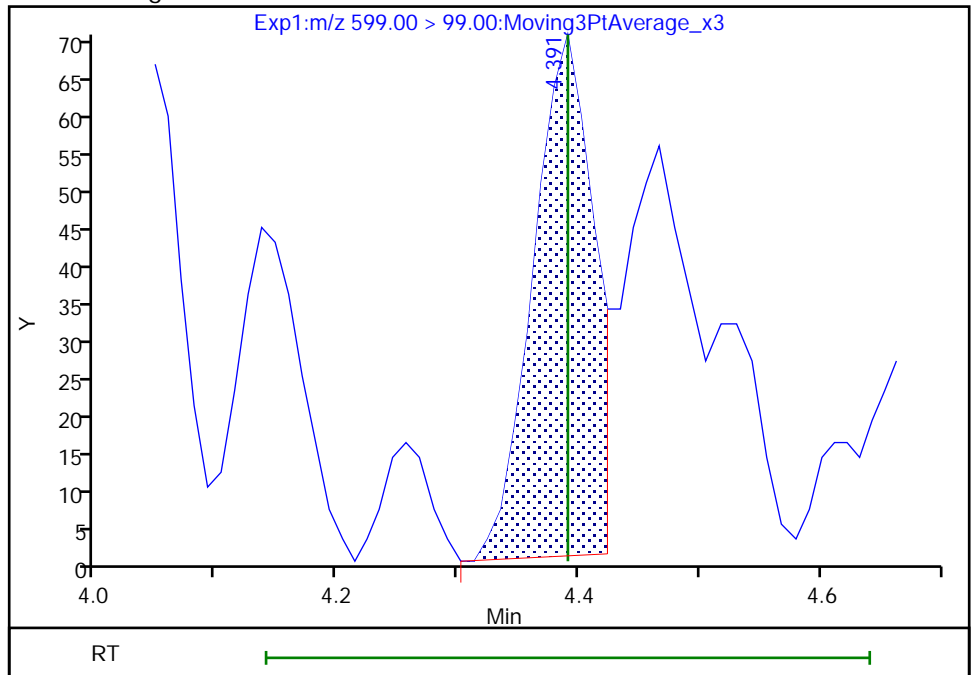
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 239
Amount: 0.000326
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:05:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

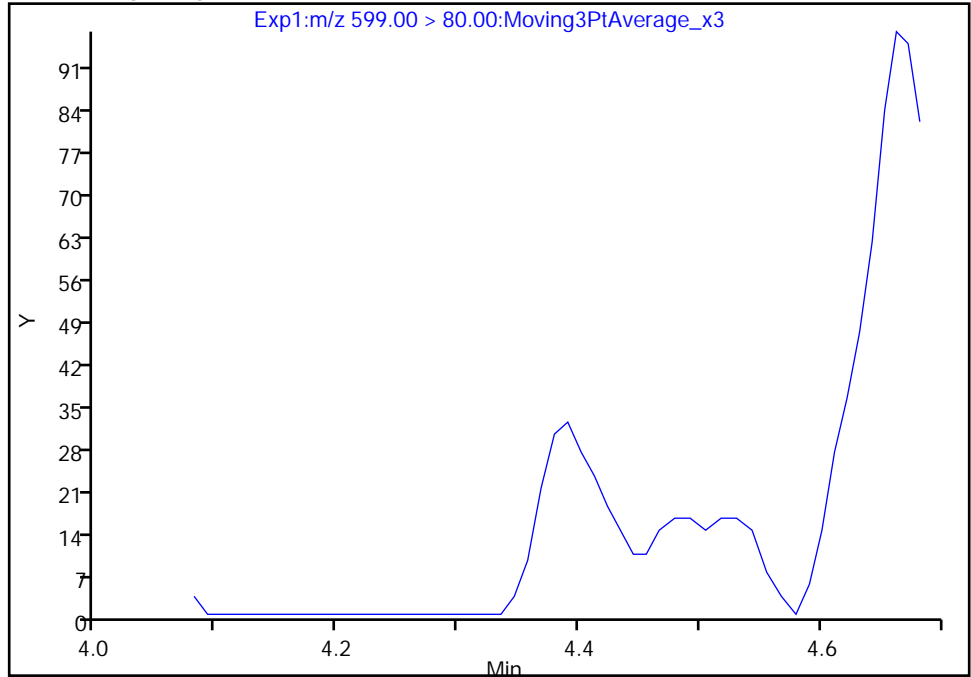
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

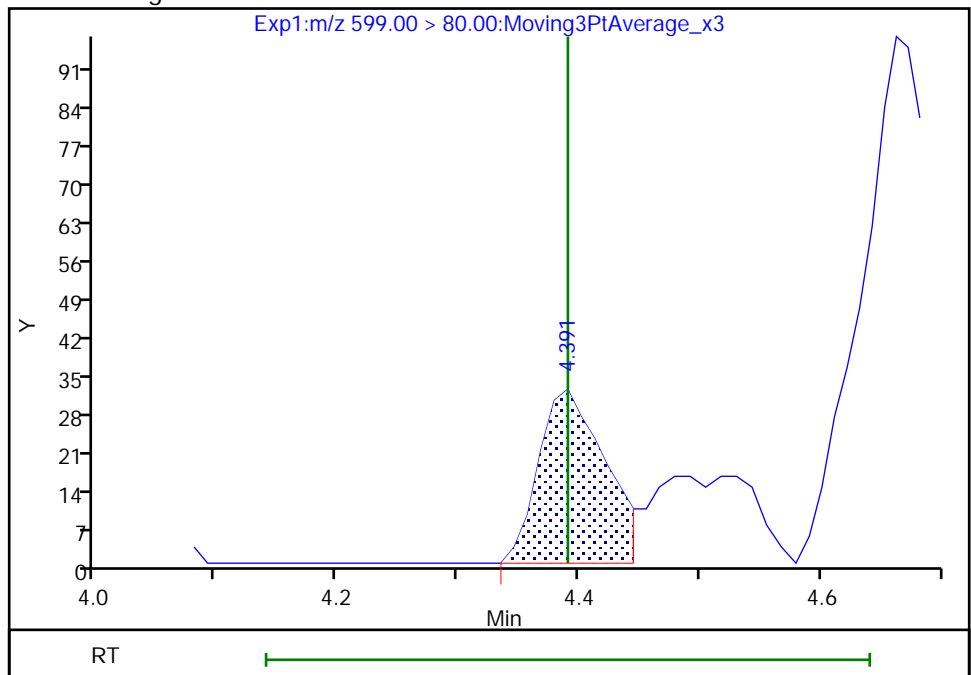
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 119
Amount: 0.000326
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:05:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

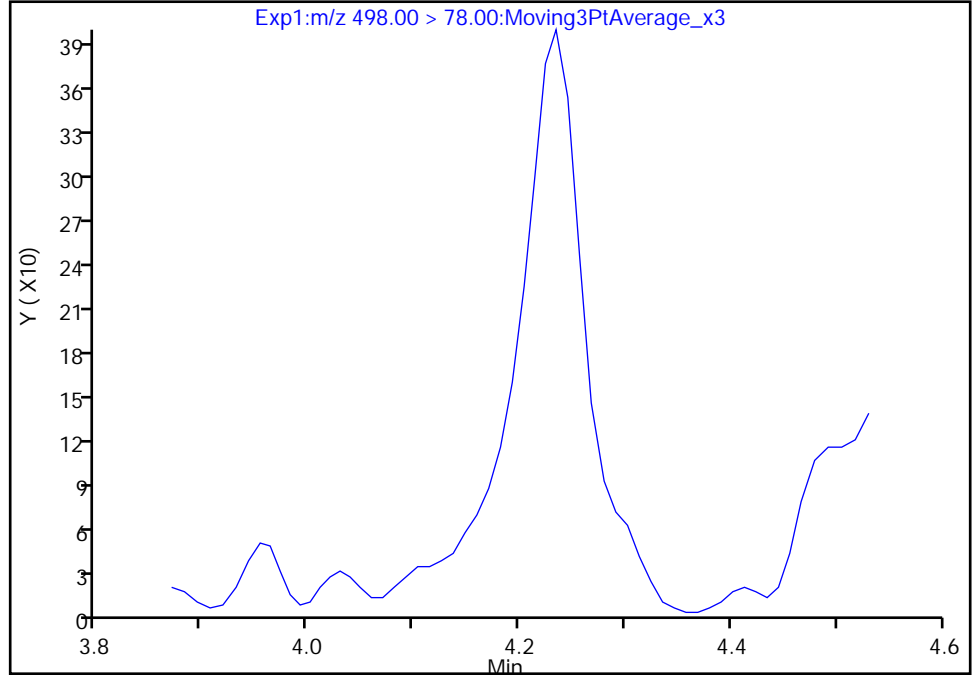
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

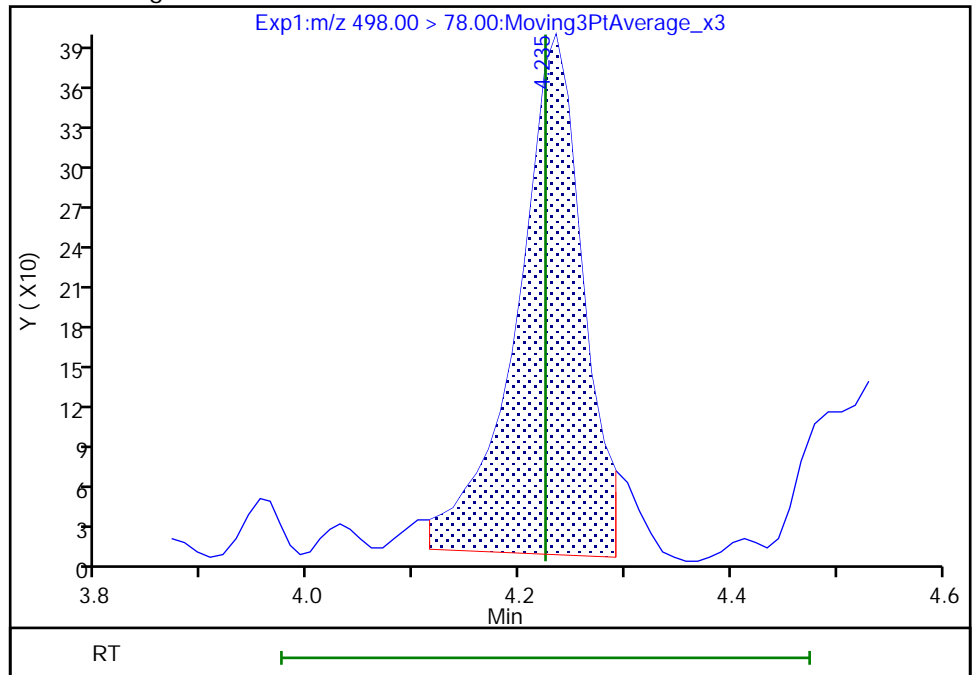
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 1686
Amount: 0.001870
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:04:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

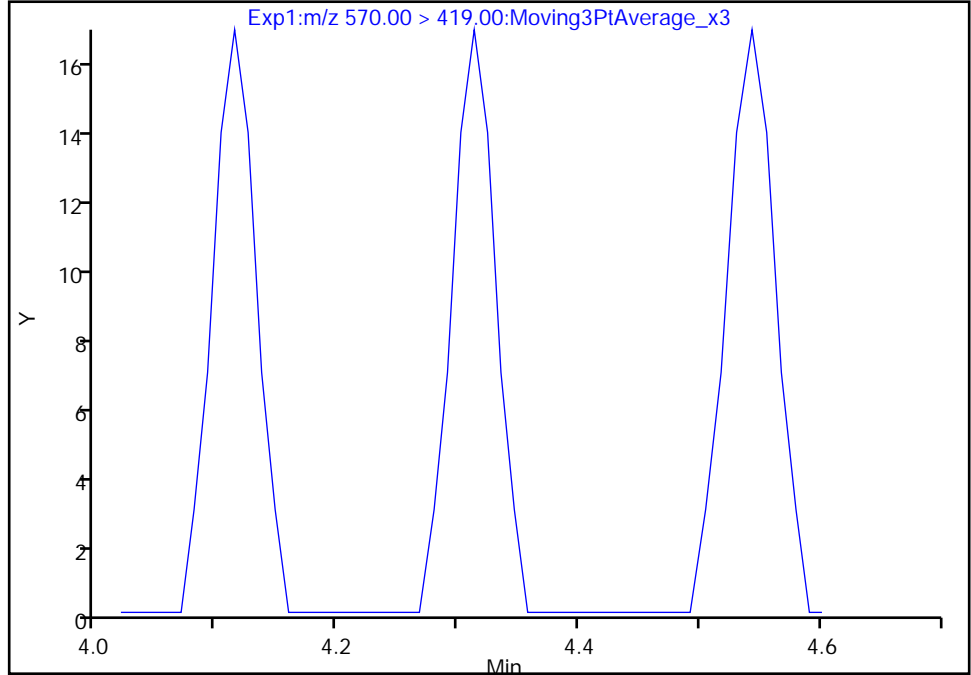
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

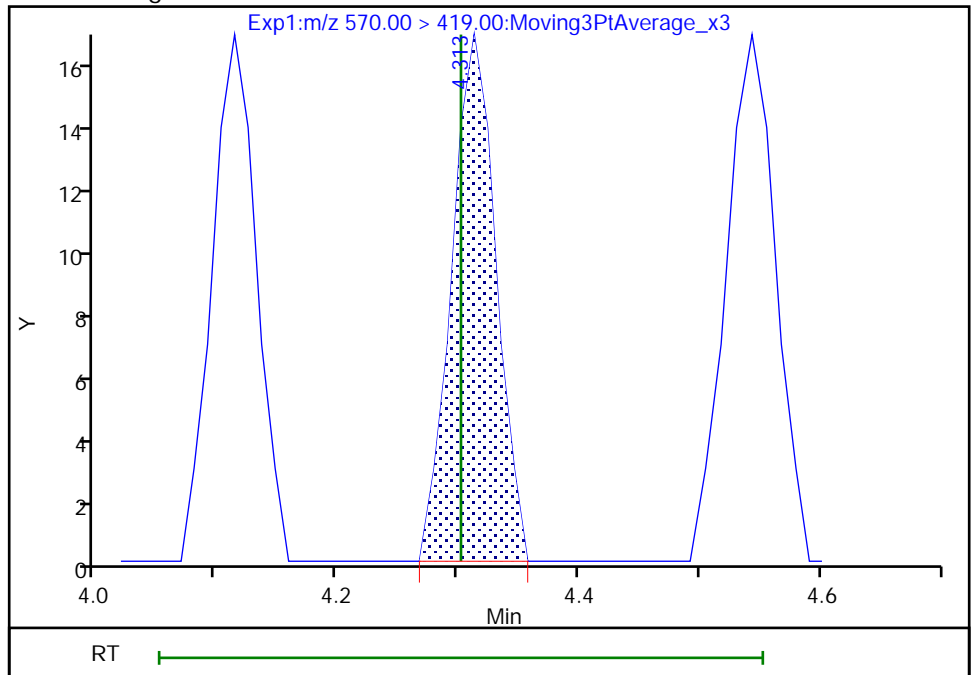
Not Detected
Expected RT: 4.30

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 43
Amount: 0.001079
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:04:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

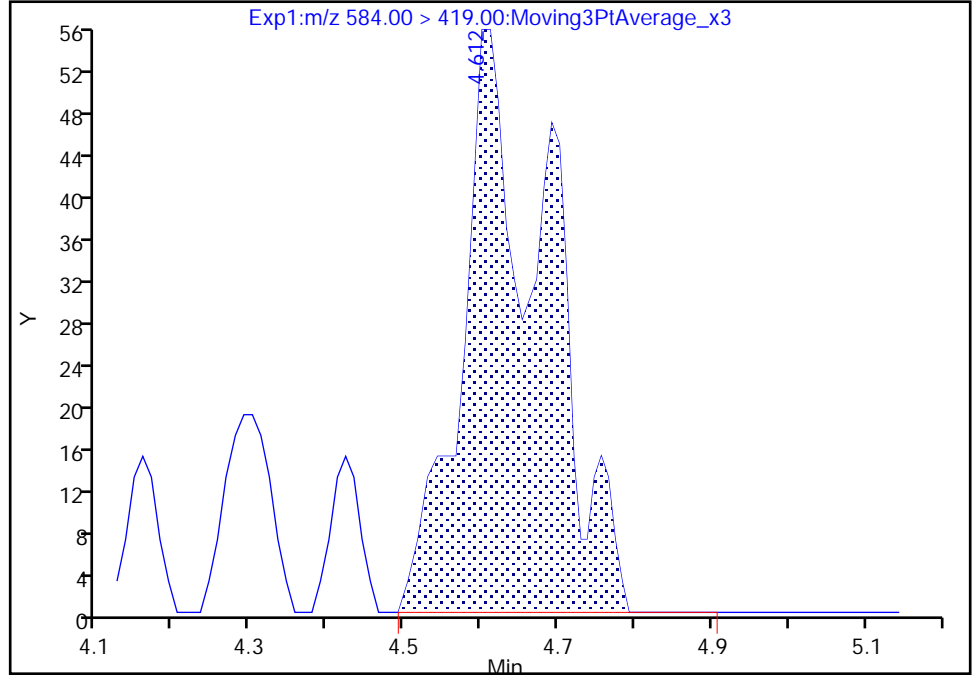
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

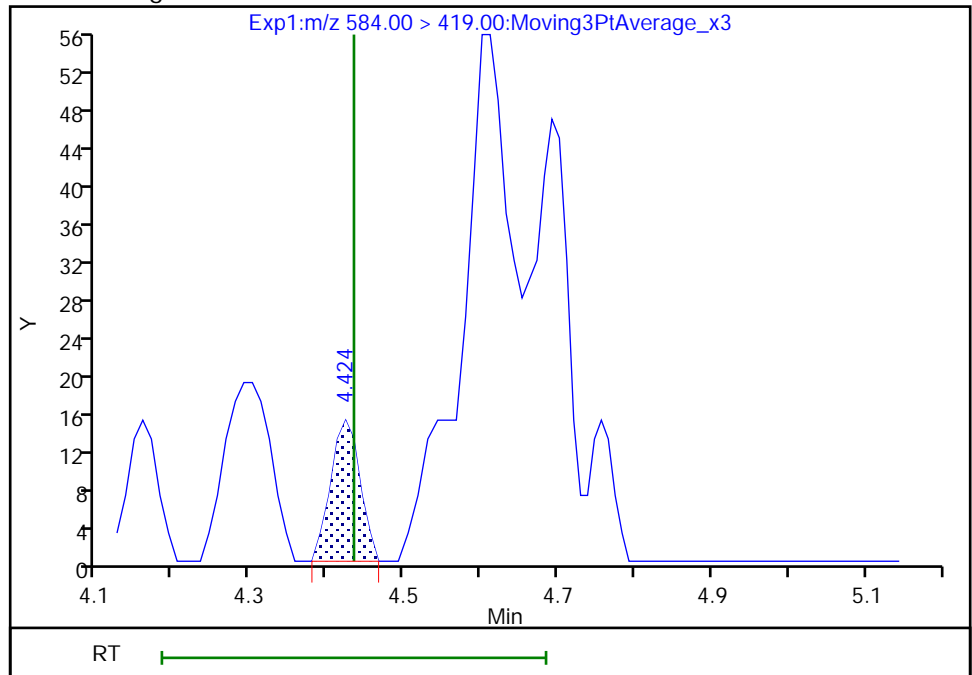
RT: 4.61
Area: 430
Amount: -0.001449
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 39
Amount: -0.010133
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:06:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

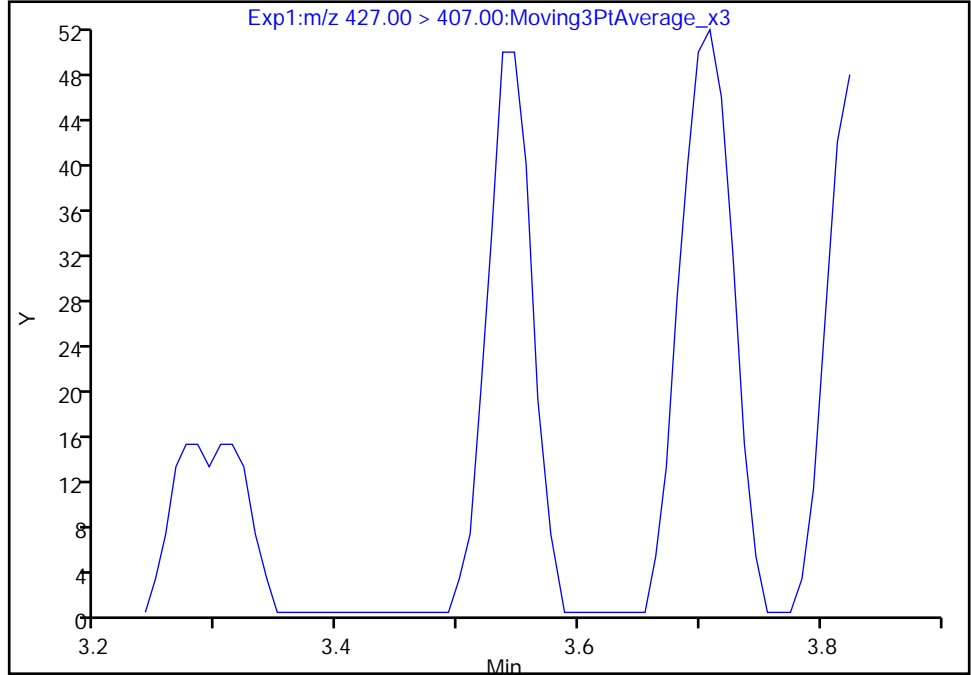
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

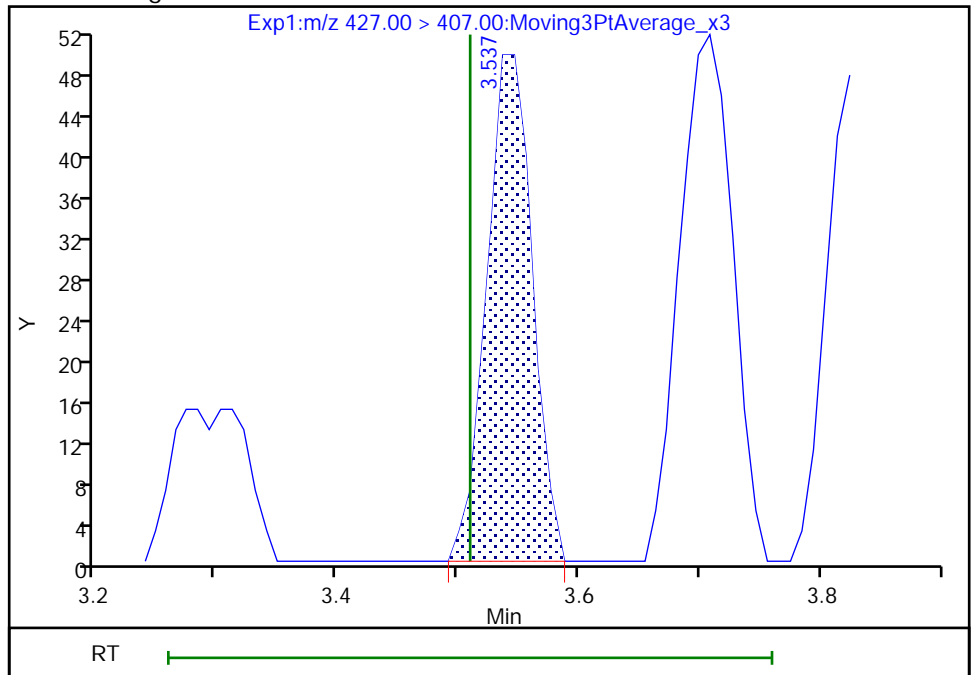
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.54
Area: 131
Amount: 0.001279
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:00:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

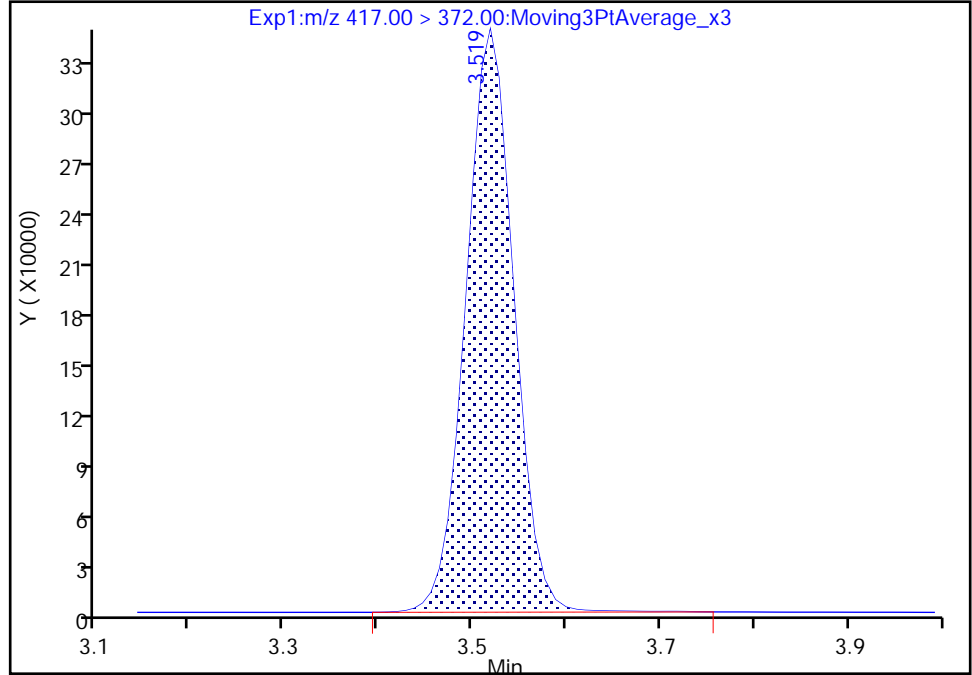
Eurofins TestAmerica, Burlington

Data File:	\\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d				
Injection Date:	21-May-2021 23:18:26	Instrument ID:	LC812		
Lims ID:	200-58440-A-2-A	Lab Sample ID:	200-58440-2		
Client ID:	MW-25S				
Operator ID:	lc812tech	ALS Bottle#:	33	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

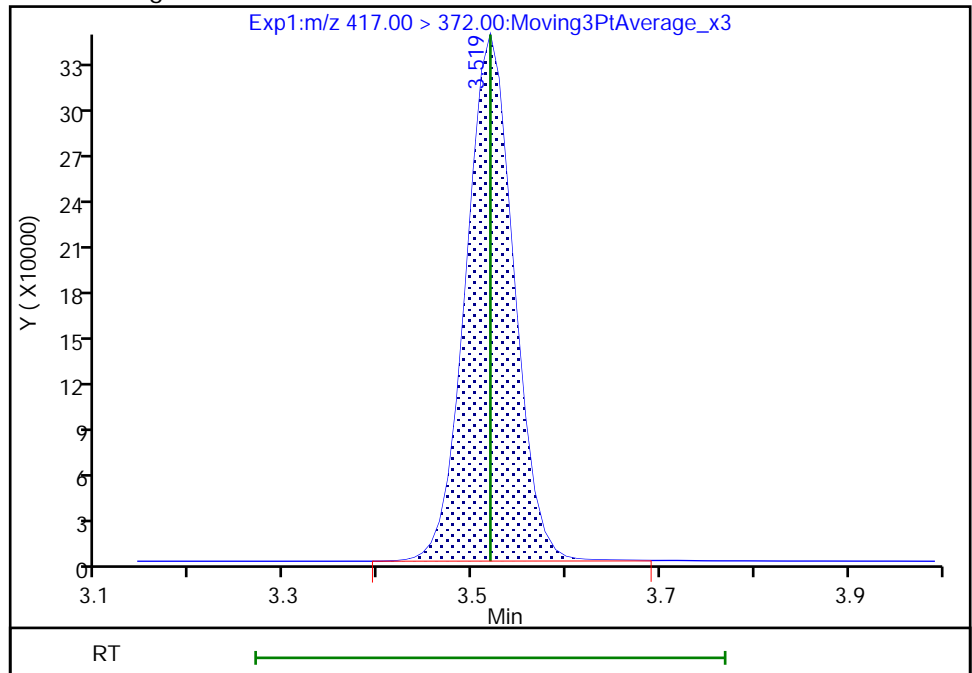
RT: 3.52
Area: 1215940
Amount: 1.164820
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1215198
Amount: 1.164109
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:56:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

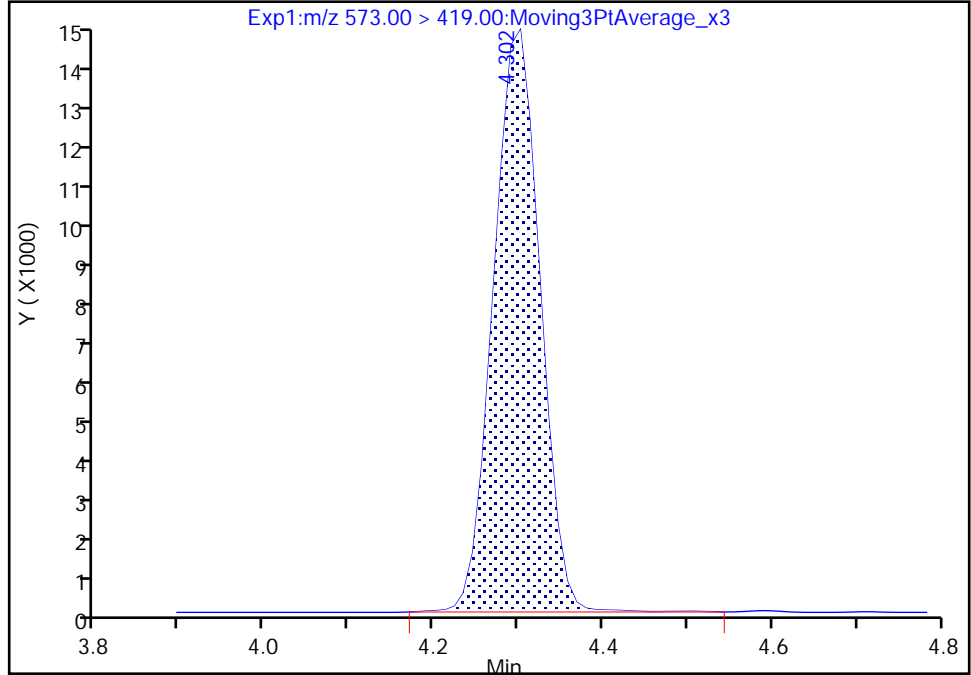
Data File:	\\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d				
Injection Date:	21-May-2021 23:18:26	Instrument ID:	LC812		
Lims ID:	200-58440-A-2-A	Lab Sample ID:	200-58440-2		
Client ID:	MW-25S				
Operator ID:	lc812tech	ALS Bottle#:	33	Worklist Smp#:	6
Injection Vol:	20.0 ul	Dil. 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

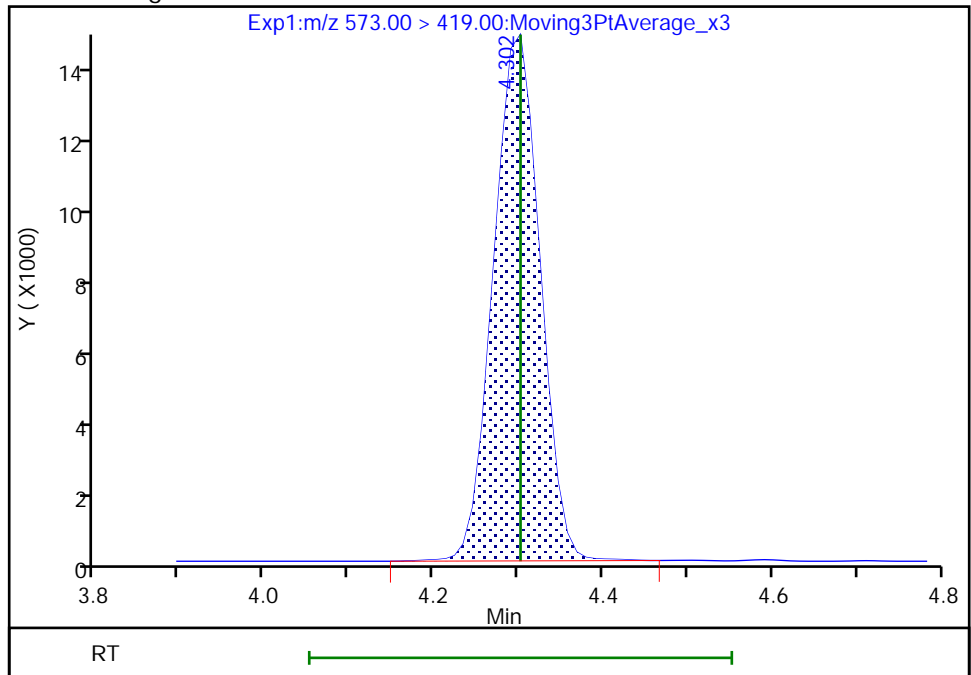
RT: 4.30
Area: 56763
Amount: 0.994842
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 56688
Amount: 0.993528
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:57:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

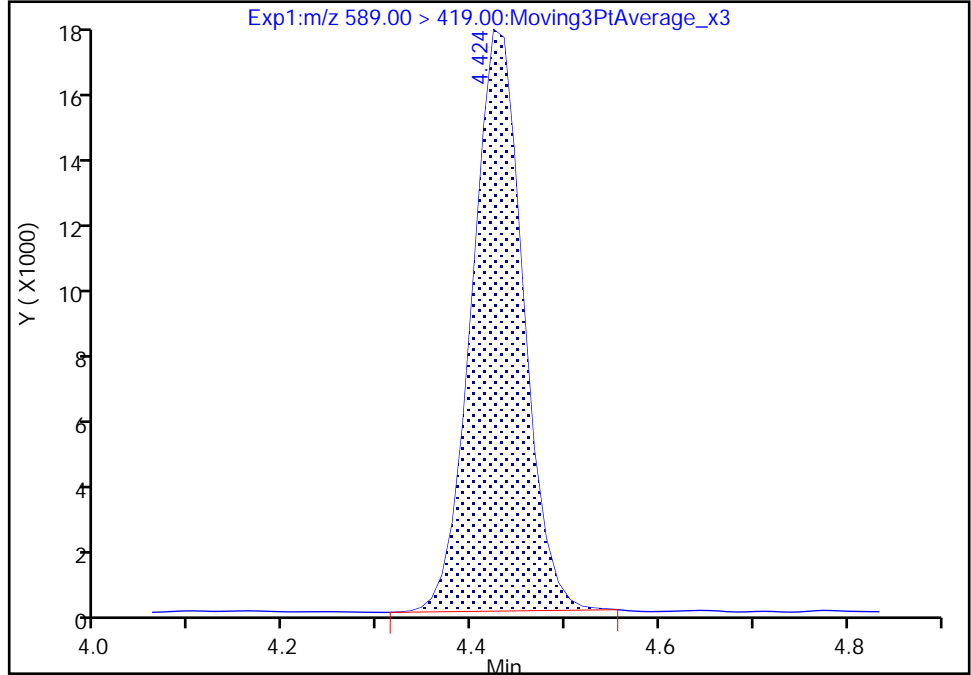
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C06.d
Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

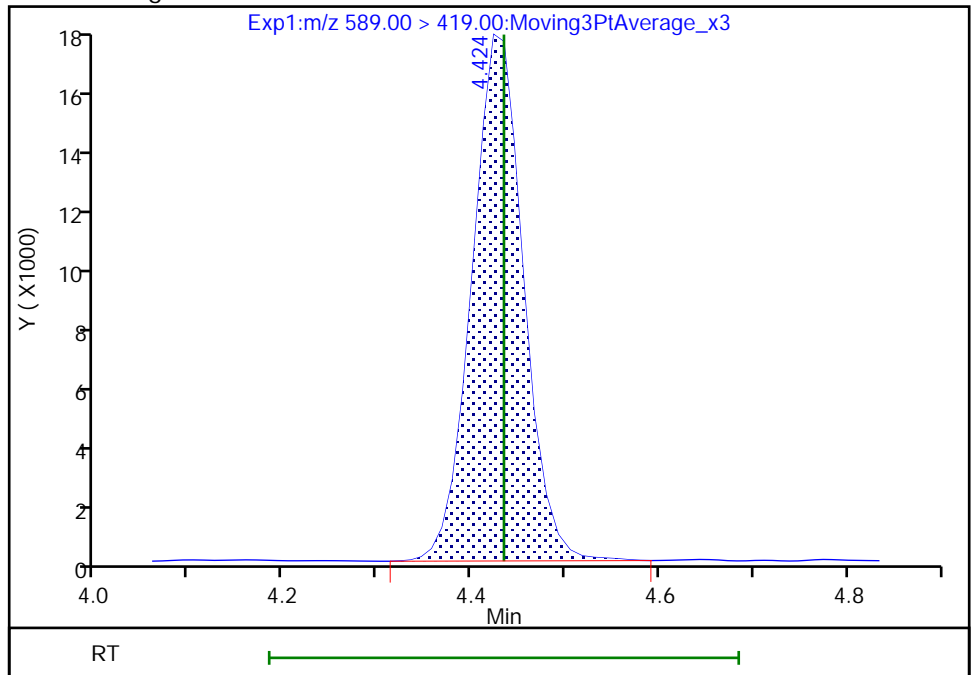
RT: 4.42
Area: 64292
Amount: 1.122931
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 64773
Amount: 1.131332
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:57:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

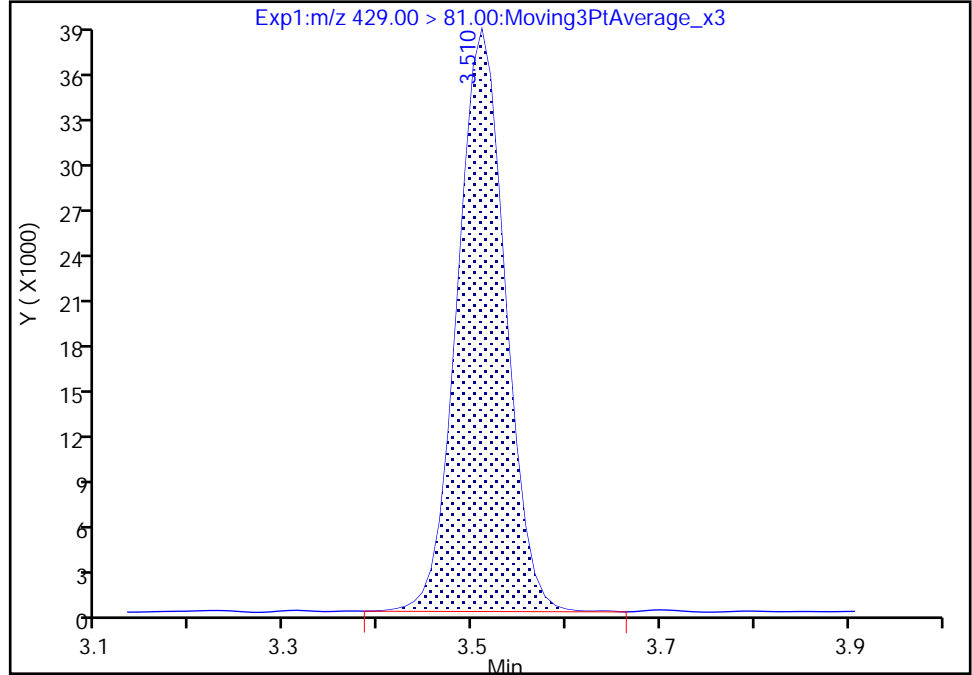
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Injection Date: 21-May-2021 23:18:26 Instrument ID: LC812
Lims ID: 200-58440-A-2-A Lab Sample ID: 200-58440-2
Client ID: MW-25S
Operator ID: lc812tech ALS Bottle#: 33 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

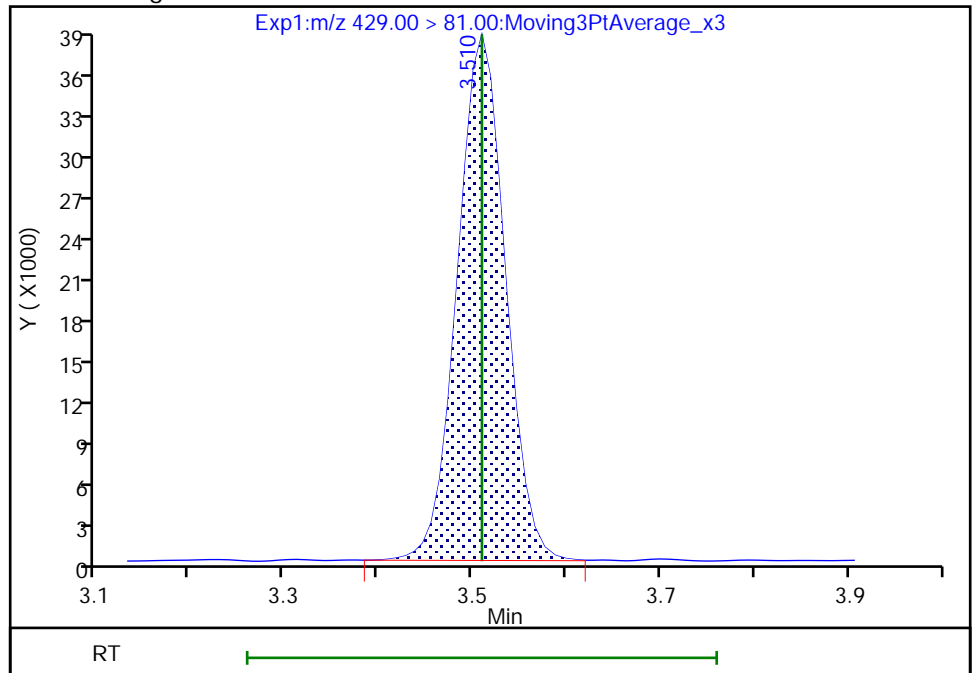
RT: 3.51
Area: 135638
Amount: 1.111006
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 135543
Amount: 1.110228
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:56:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: MW-25S-D Lab Sample ID: 200-58440-3
 Matrix: Water Lab File ID: PA210521C07.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 14:30
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 291.6(mL) Date Analyzed: 05/21/2021 23:26
 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.: 167173 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.9		4.3	0.77
2706-90-3	Perfluoropentanoic acid (PFPeA)	0.62	J	1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	0.39	J	1.7	0.39
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.26	J	1.7	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	0.51	J	1.7	0.36
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.29
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.33	J	1.7	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.26
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.31	J I B	1.7	0.25
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.77
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.64
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.94
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.33

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: MW-25S-D Lab Sample ID: 200-58440-3
 Matrix: Water Lab File ID: PA210521C07.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 14:30
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 291.6(mL) Date Analyzed: 05/21/2021 23:26
 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.: 167173 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	88		50-150
STL01892	13C4 PFHpA	89		50-150
STL00990	13C4 PFOA	93		50-150
STL00991	13C4 PFOS	87		50-150
STL00995	13C5 PFNA	86		50-150
STL00992	13C4 PFBA	88		25-150
STL00993	13C2 PFHxA	94		50-150
STL00996	13C2 PFDA	87		50-150
STL00997	13C2 PFUnA	81		50-150
STL00998	13C2 PFDoA	76		50-150
STL01056	13C8 FOSA	82		25-150
STL01893	13C5 PFPeA	89		25-150
STL02116	13C2 PFTeDA	79		50-150
STL02118	d3-NMeFOSAA	81		50-150
STL02117	d5-NEtFOSAA	88		50-150
STL02279	M2-6:2 FTS	94		25-150
STL02280	M2-8:2 FTS	93		25-150
STL02337	13C3 PFBS	87		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
 Lims ID: 200-58440-A-3-A
 Client ID: MW-25S-D
 Sample Type: Client
 Inject. Date: 21-May-2021 23:26:42 ALS Bottle#: 34 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 200-58440-A-3-A
 Misc. Info.: 200-0046090-007 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 10:16:50
 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	2.098	2.091	0.007	0.596	1481816	1.10	87.7	11714	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.098	2.100	-0.002	1.000	191805	0.1731		37.0		M
D 3 13C5 PFPeA	267.90 > 223.00	2.424	2.426	-0.002	0.689	1090999	1.11	88.9	2979	
4 Perfluoropentanoic acid	262.90 > 219.00	2.424	2.426	-0.002	1.000	15859	0.0180		1.7	
D 47 13C3 PFBS	301.90 > 80.00	2.437	2.439	-0.002	0.693	1247427	1.02	87.4	161706	M
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.450	2.439	0.011	1.005	10617	0.009603	Target=2.19	7.0	
298.90 > 99.00	2.450	2.439	0.011	1.005	5014		2.12(1.09-3.28)	3.4		
D 7 13C2 PFHxA	315.00 > 270.00	2.792	2.782	0.010	0.793	1256014	1.18	94.2	4224	M
6 Perfluorohexanoic acid	313.00 > 269.00	2.780	2.782	-0.002	0.996	11456	0.0113	Target=12.12	2.9	M
313.00 > 119.00	2.792	2.782	0.010	1.000	701		16.34(6.06-18.18)	1.7		M
D 11 18O2 PFHxS	403.00 > 84.00	3.154	3.154	0.0	0.896	996263	1.05	88.4	2874	
8 Perfluorohexanesulfonic acid	399.00 > 80.00	3.154	3.154	0.0	1.000	4904	0.005251	Target=4.23	12.6	M
399.00 > 99.00	3.154	3.154	0.0	1.000	2136		2.30(2.12-6.35)	2.8		M
D 9 13C4 PFHpA	367.00 > 322.00	3.164	3.154	0.010	0.899	1188277	1.12	89.2	3257	
10 Perfluoroheptanoic acid	363.00 > 319.00	3.154	3.164	-0.010	0.997	7387	0.007704	Target=3.49	2.5	M
363.00 > 169.00	3.164	3.164	0.0	1.000	1896		3.90(1.75-5.24)	4.9		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	3.501	3.510	-0.009	0.913	131	0.000176	Target=6.21	1.1		M
449.00 > 99.00	3.510	3.510	0.0	0.915	30		4.37(3.10-9.31)	0.2		M
D 12 M2-6:2 FTS										M
429.00 > 81.00	3.510	3.510	0.0	0.997	140813	1.12		93.9	327	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.501	3.510	-0.009	0.997	149	0.001401		3.4		M
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1255090	1.16		93.0	3553	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1347894	1.25		220		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.519	3.519	0.0	1.000	15368	0.0149	Target=2.53	4.2		M
413.00 > 169.00	3.429	3.519	-0.090	0.974	7411		2.07(1.27-3.80)	13.2		M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	715744	1.04		87.1	3158	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.836	3.836	0.0	1.000	5879	0.009117	Target=6.09	4.0		RM
499.00 > 99.00	3.836	3.836	0.0	1.000	2276		2.58(3.04-9.13)	2.3		M
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.859	3.858	0.001	1.000	845	0.001027	Target=6.34	0.4		RM
463.00 > 169.00	3.859	3.858	0.001	1.000	38		22.24(3.17-9.51)	0.6		M
D 19 13C5 PFNA										M
468.00 > 423.00	3.859	3.858	0.001	1.097	1067168	1.07		85.9	2984	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.160	4.160	0.0	1.182	951814	1.09		87.3	2375	M
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.149	4.160	-0.011	0.997	1314	0.001649	Target=7.79	1.2		RM
513.00 > 169.00	4.137	4.160	-0.023	0.995	85		15.46(3.90-11.69)	1.0		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.171	4.171	0.0	1.185	143631	1.11		92.7	595	
D 21 13C8 FOSA										M
506.00 > 78.00	4.225	4.225	0.0	1.200	1262072	1.03		82.1	3071	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.225	4.225	0.0	1.000	942	0.000954		7.3		M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.303	4.302	0.001	1.223	59729	1.01		81.0	682	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.314	4.302	0.012	1.003	43	0.001024		0.5		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.424	0.0	1.257	704433	1.01		80.6	2608	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.435	4.434	0.001	1.260	65476	1.11		88.5	698	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.424	4.434	-0.010	0.998	79	-0.009263		1.3		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.653	0.0	1.322	693335	0.9473		75.8	2385	

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	4.653	4.653	0.0	1.000	894	0.001608	Target=5.94	0.7		M
613.00 > 169.00	4.653	4.653	0.0	1.000	260		3.44(2.97-8.92)	5.2		M
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.877	4.867	0.010	1.048	508	0.001133	Target=3.97	0.5		RM
663.00 > 169.00	4.866	4.867	-0.001	1.046	77		6.60(1.99-5.96)	1.8		M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.063	5.063	-0.001	1.439	525876	0.9820		78.6	4574	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	5.053	5.063	-0.010	0.998	210	0.002441	Target=1.01	6.6		RM
713.00 > 219.00	5.053	5.063	-0.010	0.998	138		1.52(0.51-1.52)	6.9		M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d

Injection Date: 21-May-2021 23:26:42

Instrument ID: LC812

Lims ID: 200-58440-A-3-A

Lab Sample ID: 200-58440-3

Client ID: MW-25S-D

Operator ID: lc812tech

ALS Bottle#: 34

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

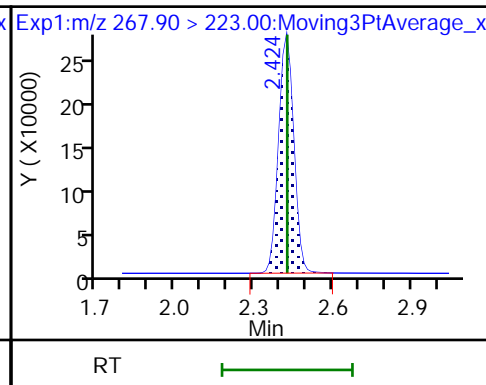
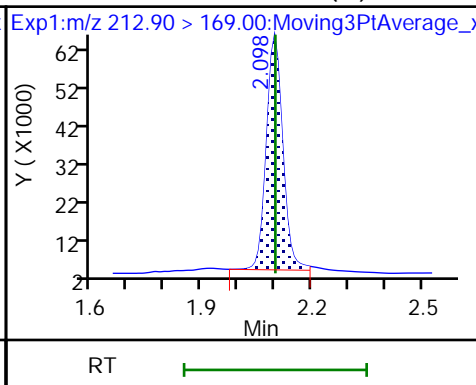
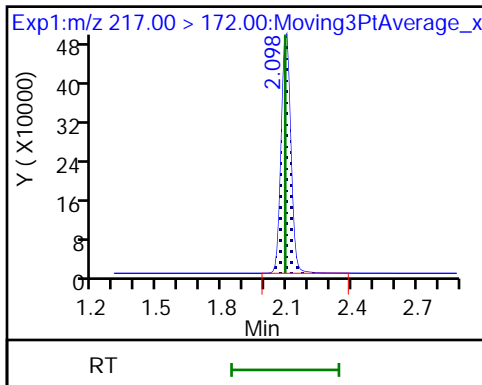
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

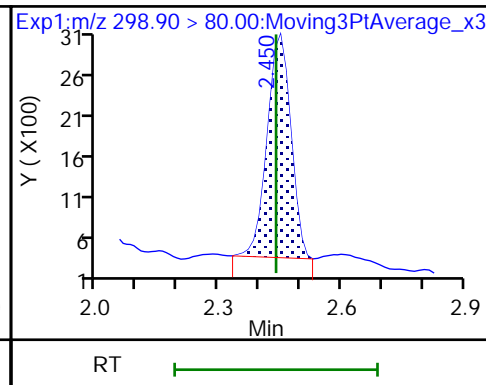
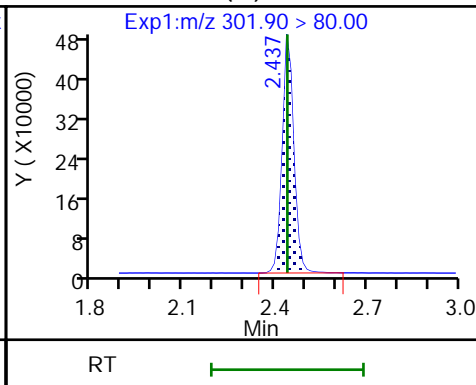
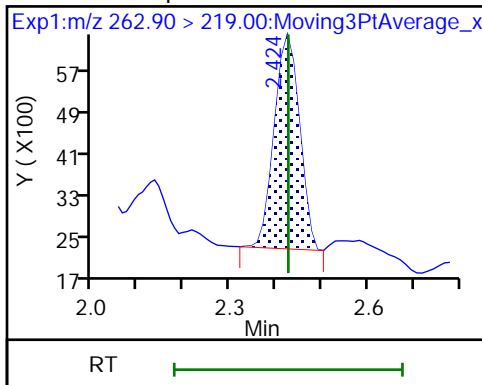
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

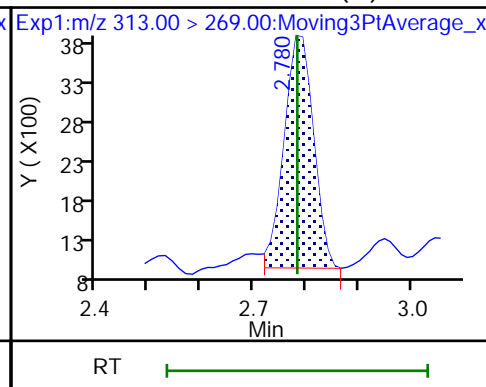
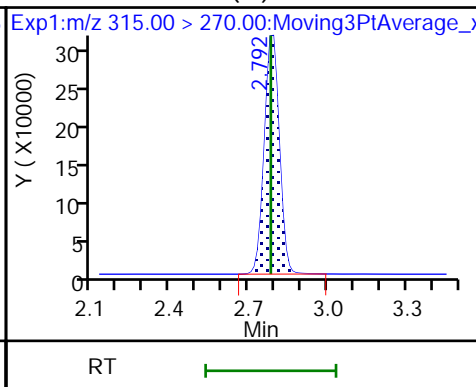
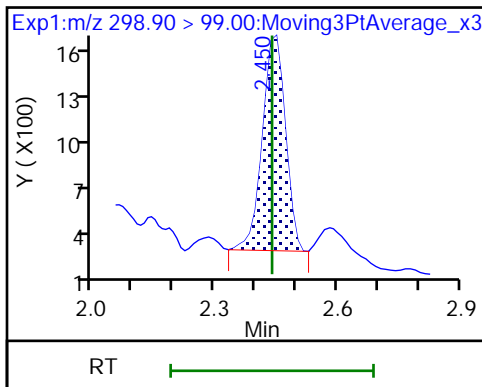
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA (M)

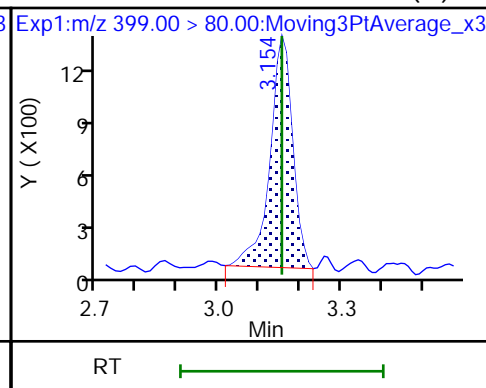
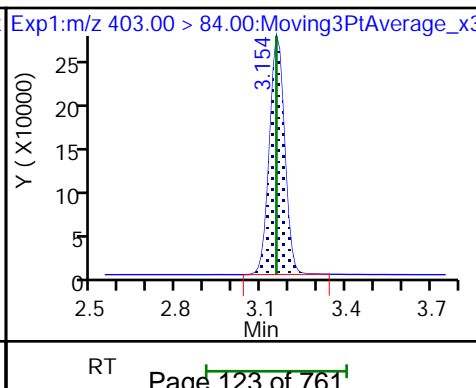
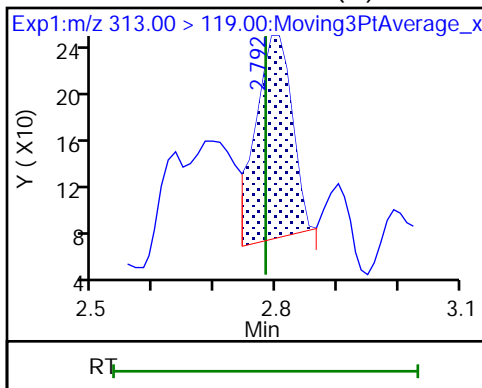
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

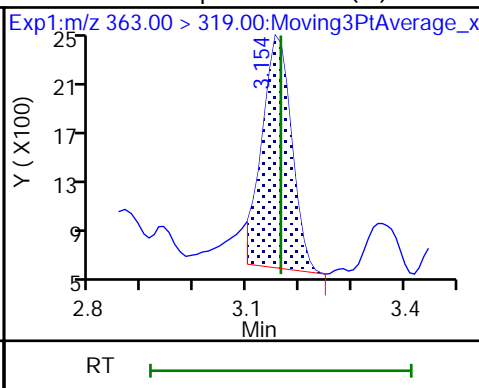
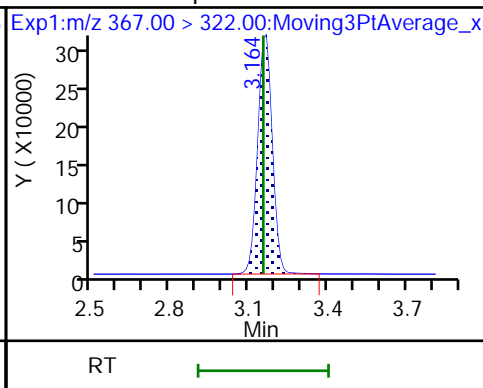
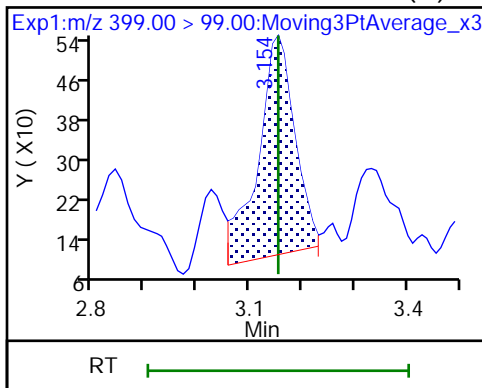
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

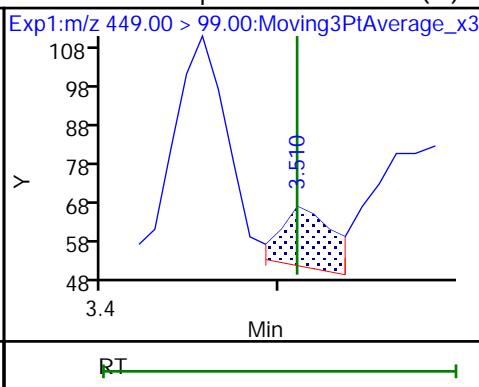
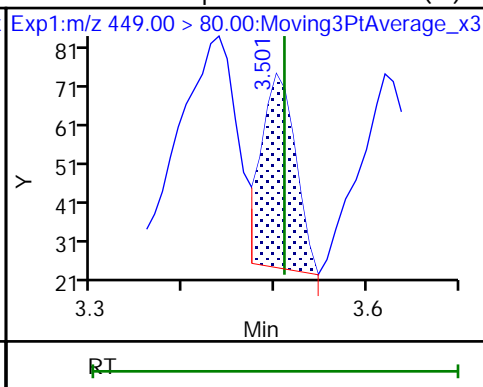
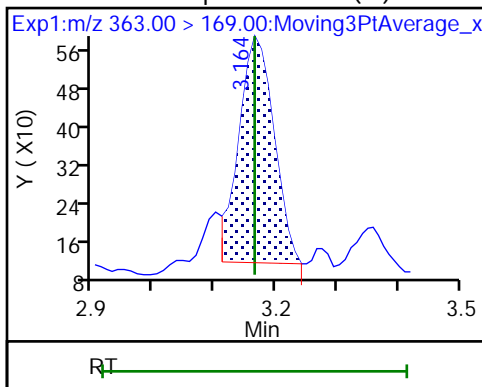
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (M)

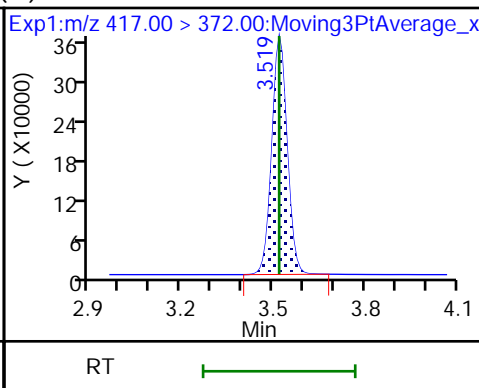
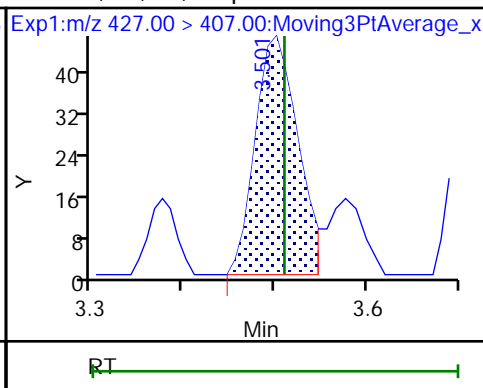
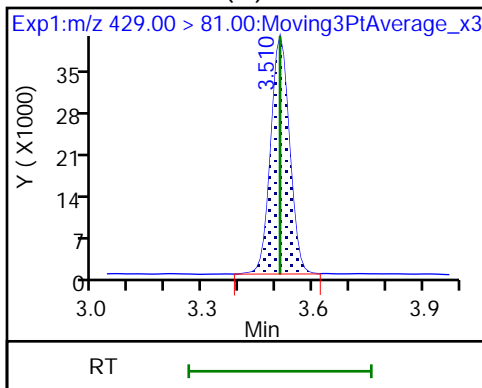
16 Perfluoroheptanesulfonic acid (M)



D 12 M2-6:2 FTS (M)

13 1H,1H,2H,2H-perfluorooctanesulfo (M)

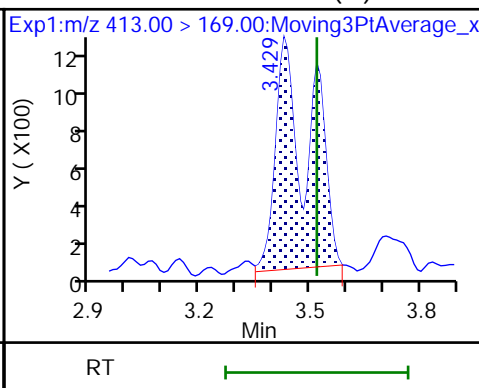
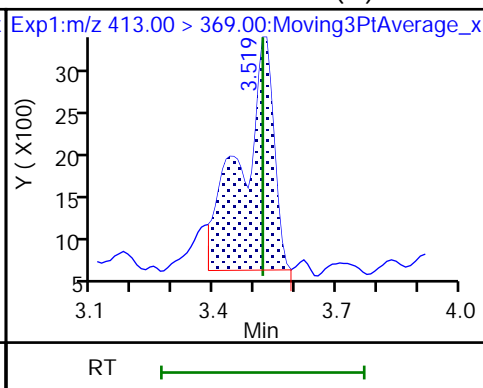
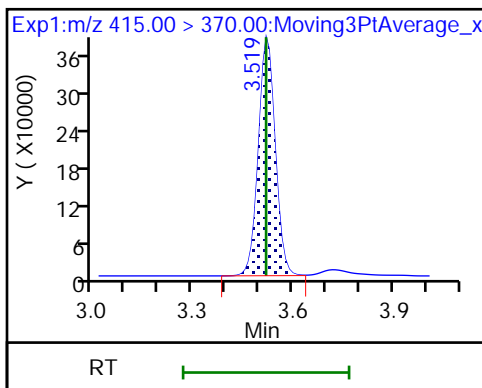
14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

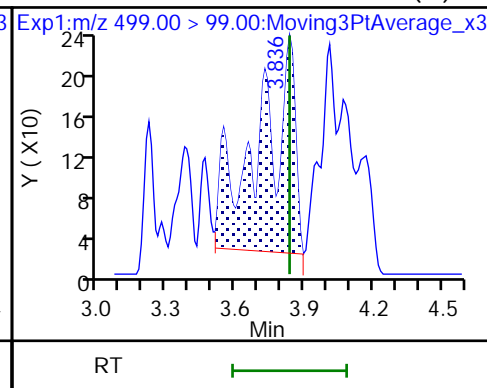
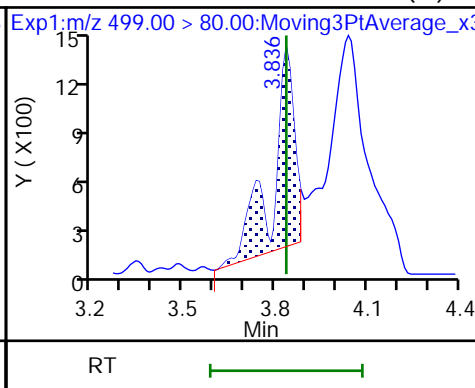
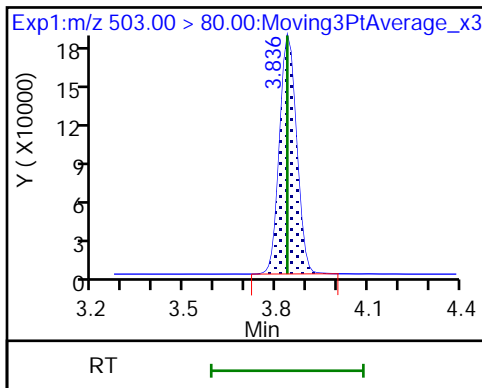
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

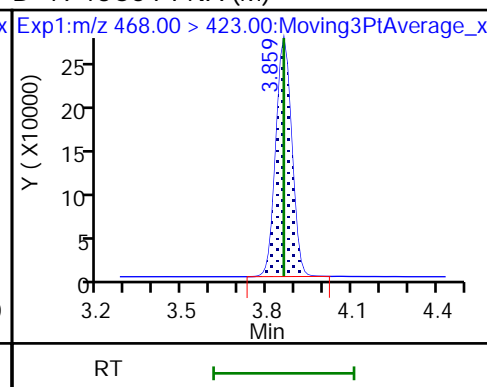
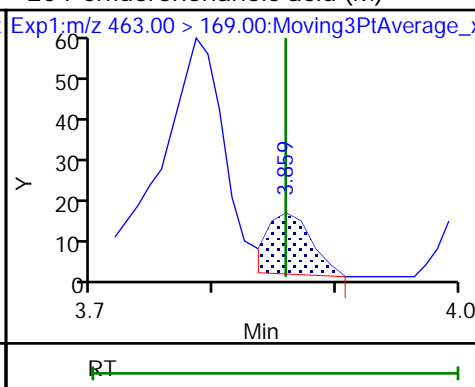
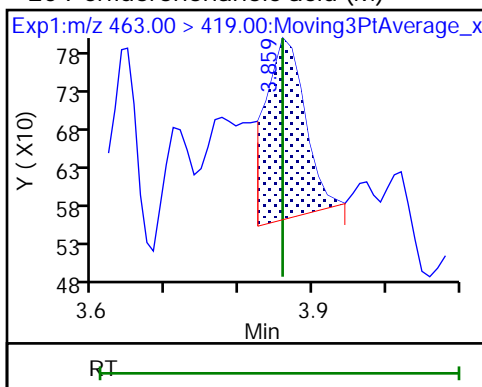
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

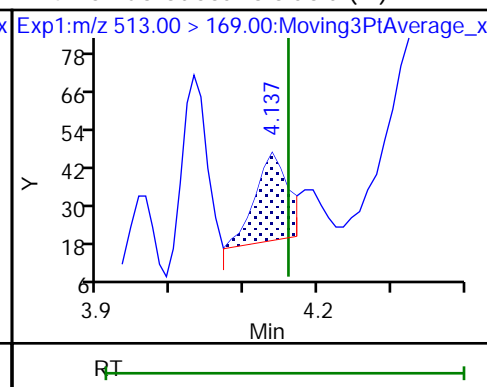
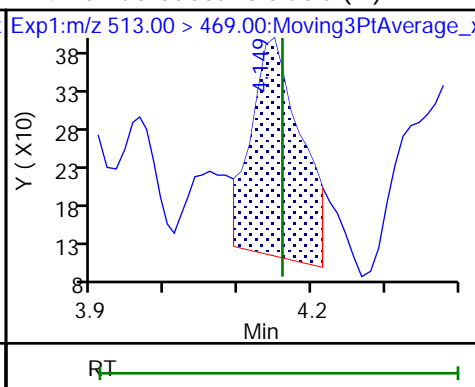
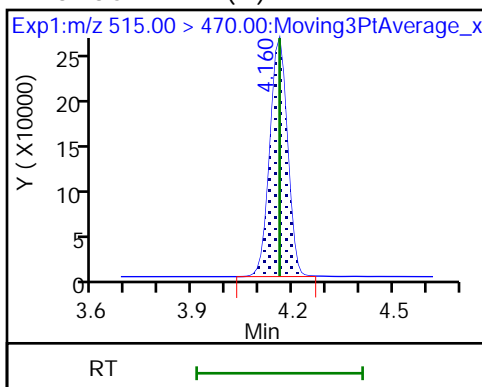
D 19 13C5 PFNA (M)



D 23 13C2 PFDA (M)

24 Perfluorodecanoic acid (M)

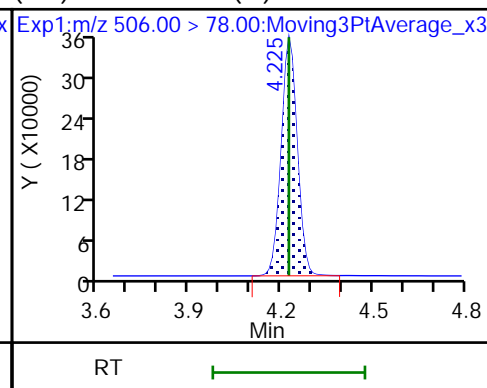
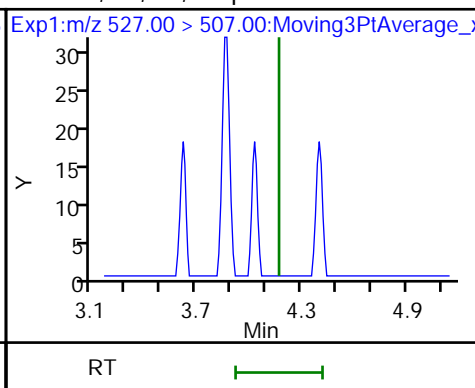
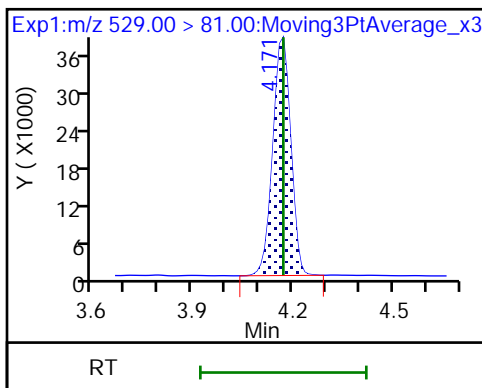
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

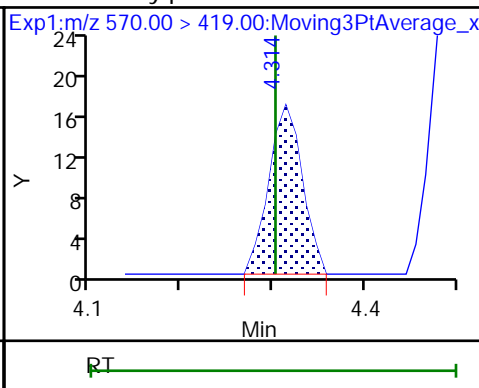
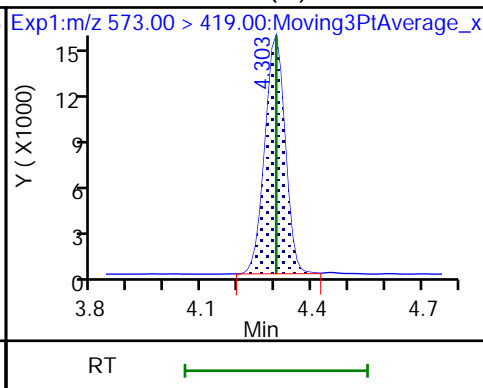
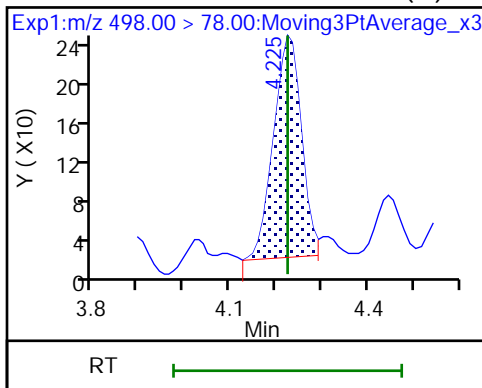
(ND) 13C8 FOSA (M)



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA (M)

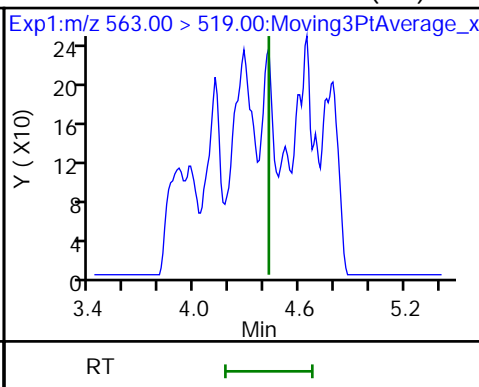
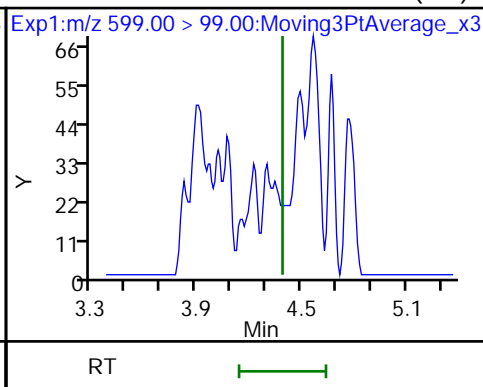
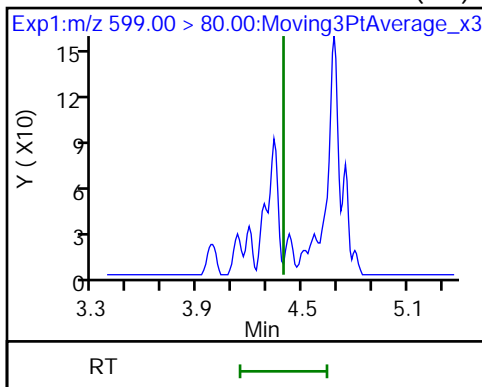
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

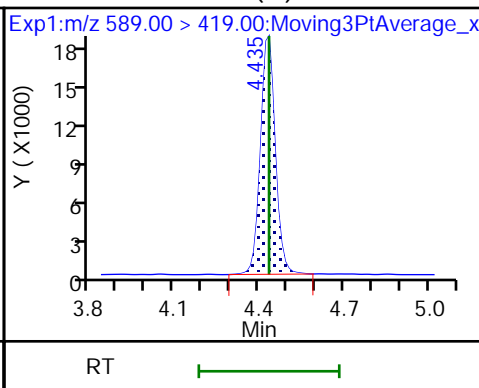
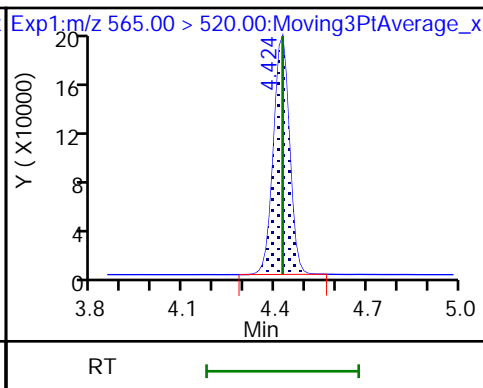
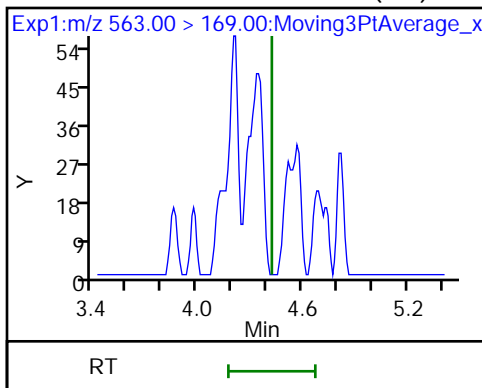
31 Perfluoroundecanoic acid (ND)



31 Perfluoroundecanoic acid (ND)

D 30 13C2 PFUnA

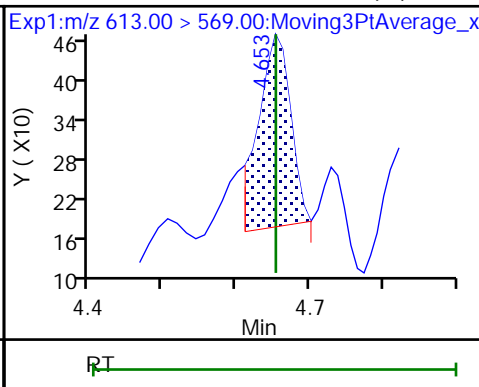
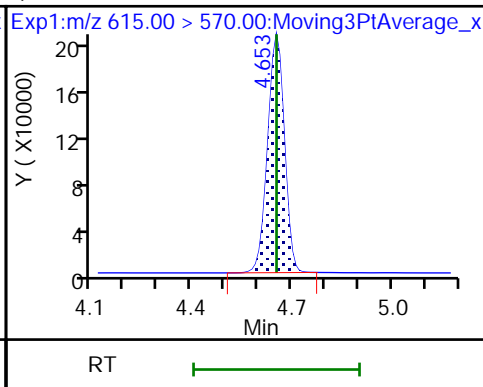
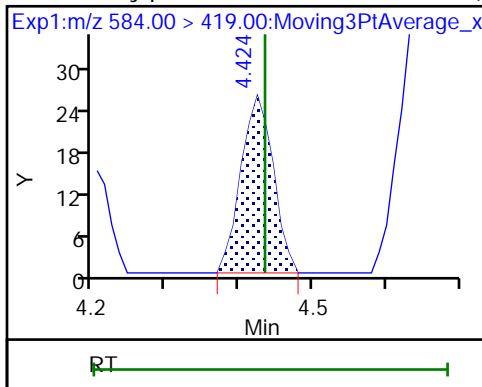
D 32 d5-NEtFOSAA (M)

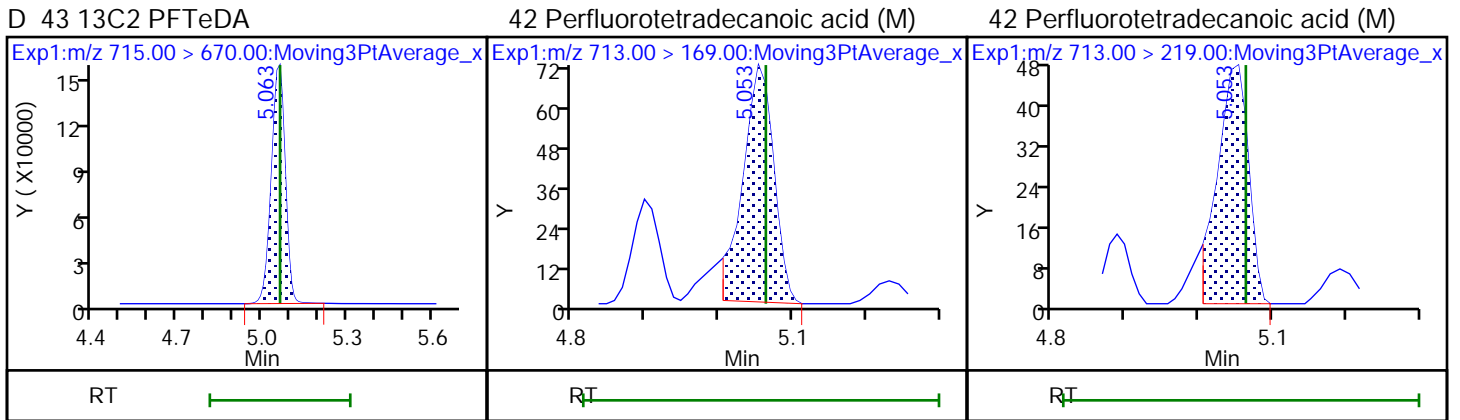
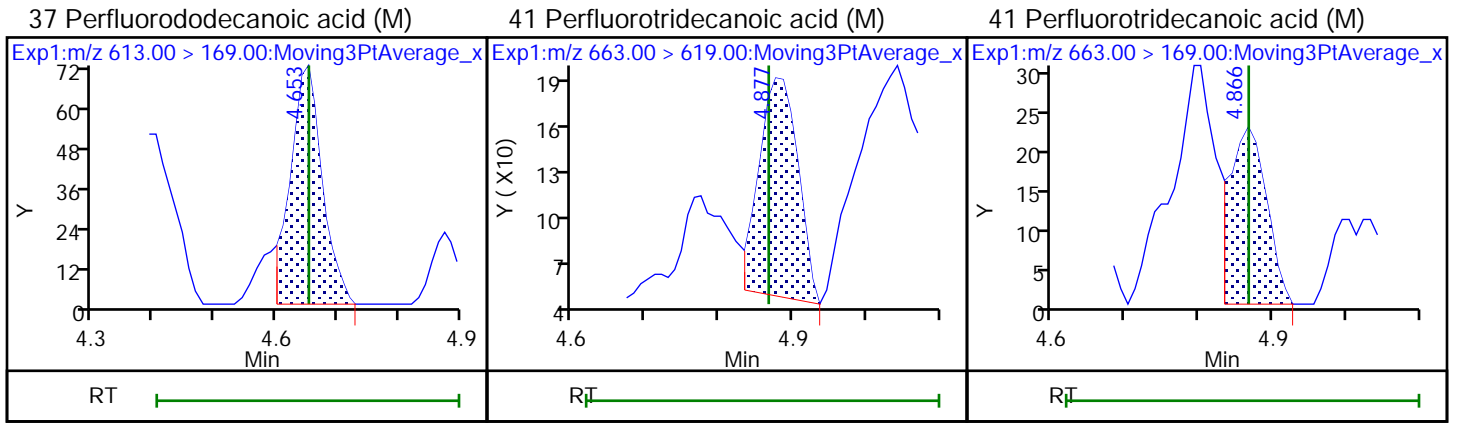


33 N-ethylperfluorooctanesulfonamid (ND)

36 13C2 PFDoA

37 Perfluorododecanoic acid (M)





Euofins TestAmerica, Burlington

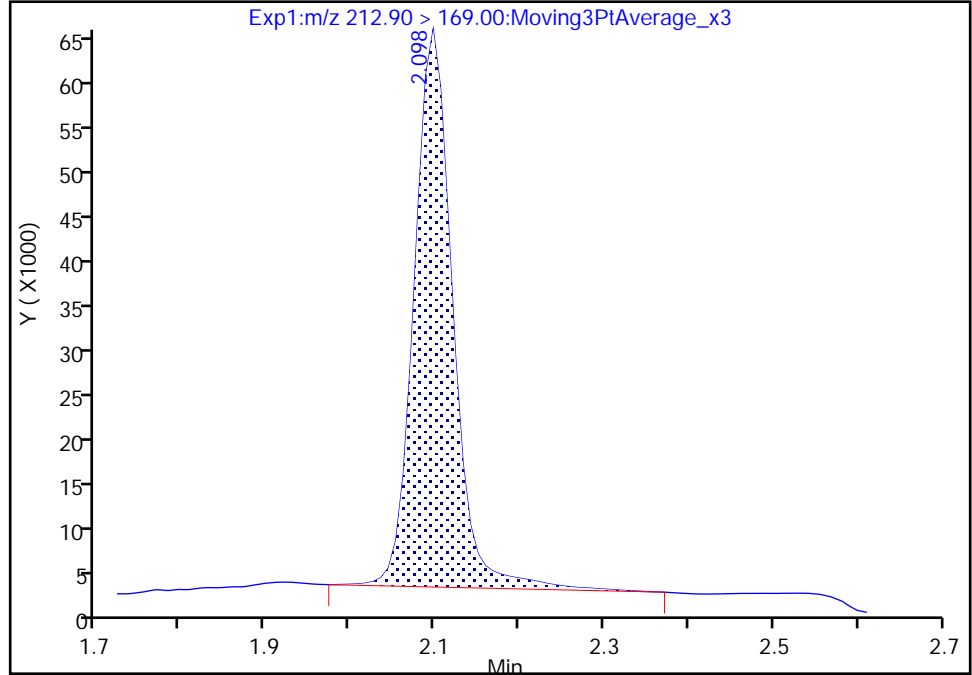
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

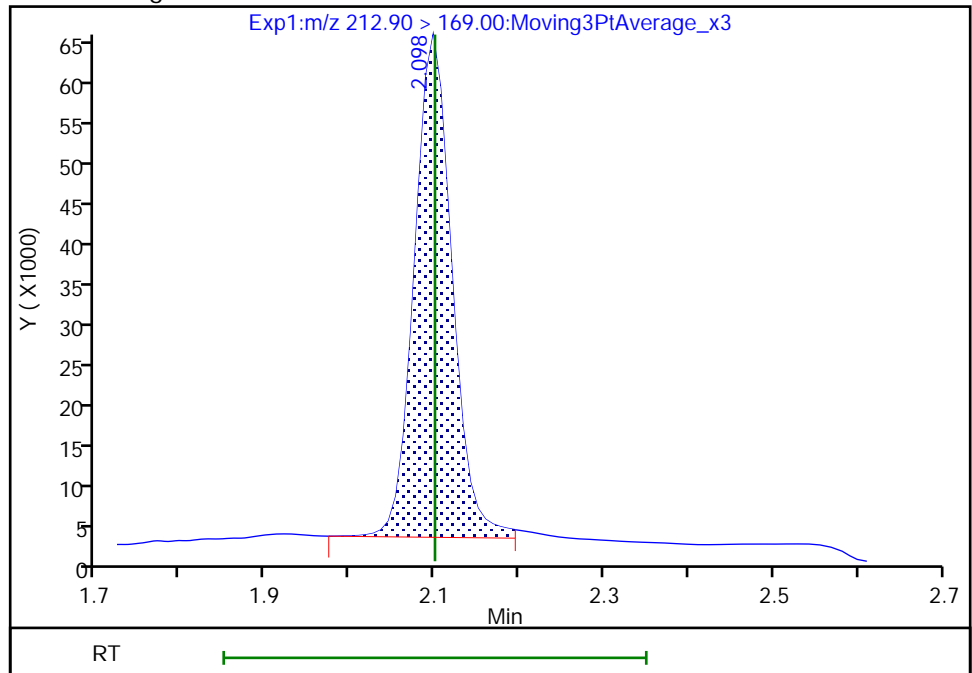
RT: 2.10
Area: 197278
Amount: 0.178004
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 191805
Amount: 0.173066
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:10:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

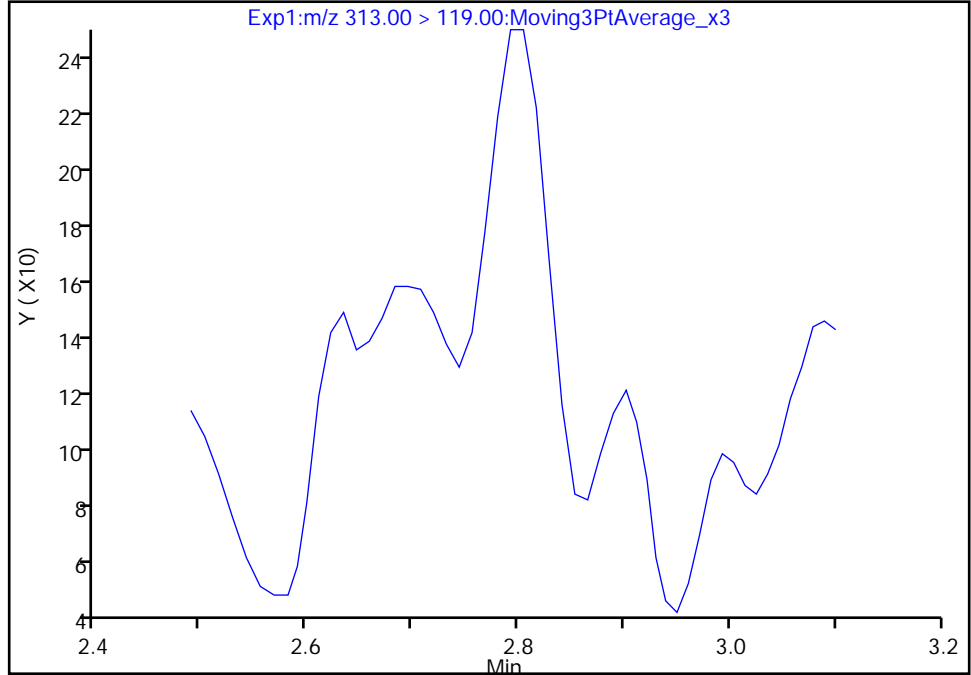
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 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: 2

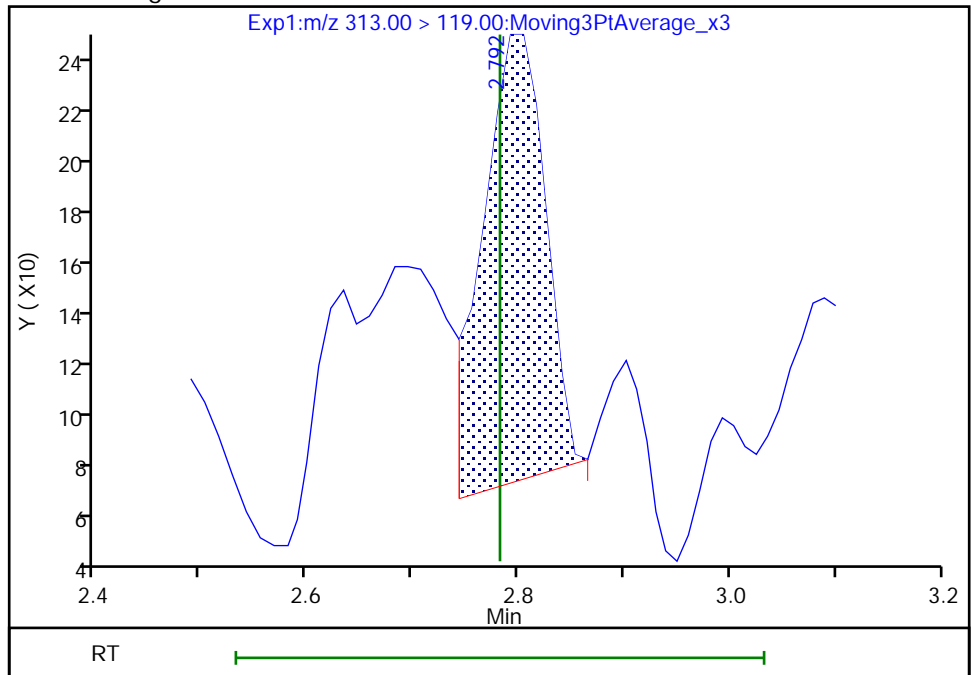
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.79
Area: 701
Amount: 0.011265
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:11:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

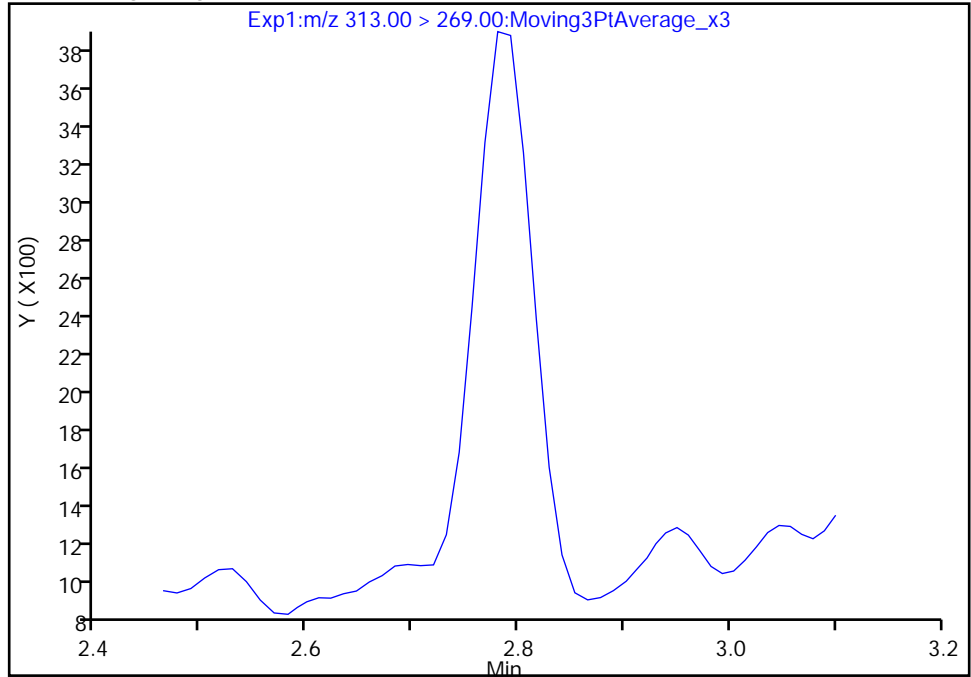
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

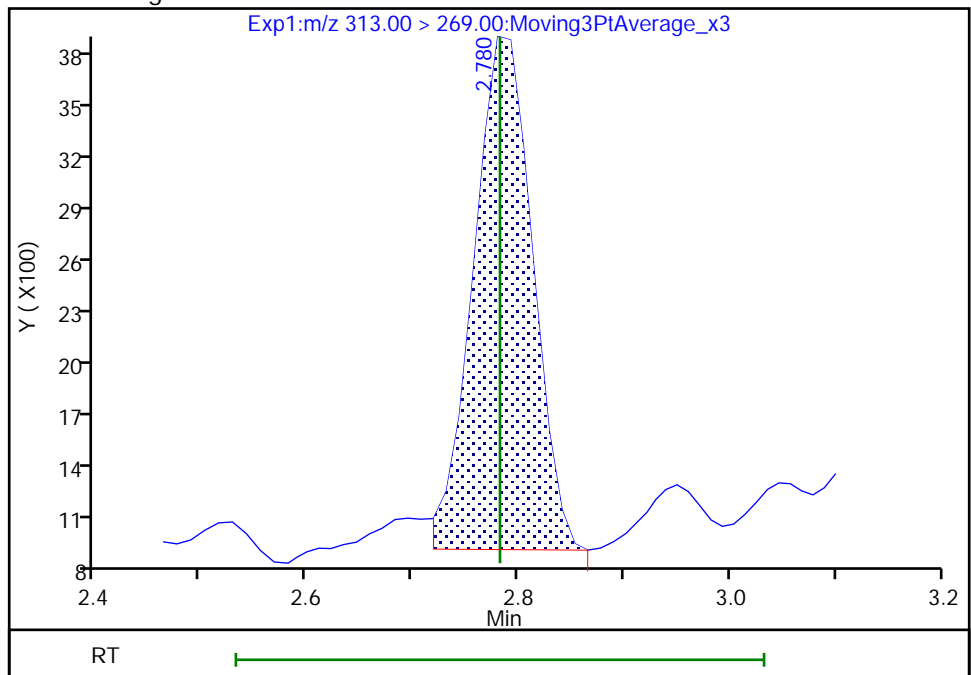
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.78
Area: 11456
Amount: 0.011265
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

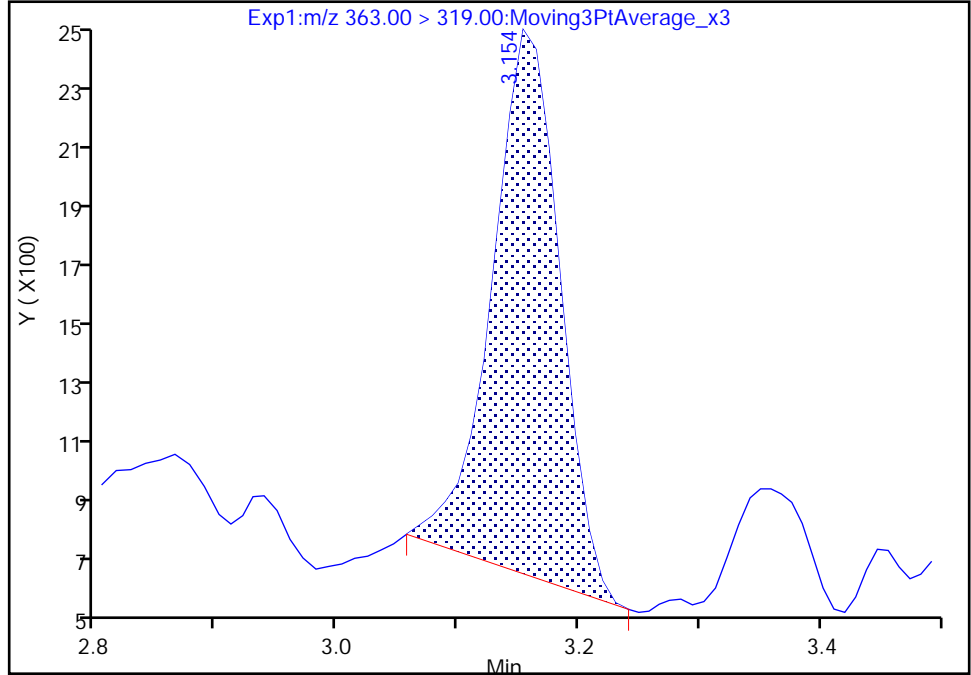
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

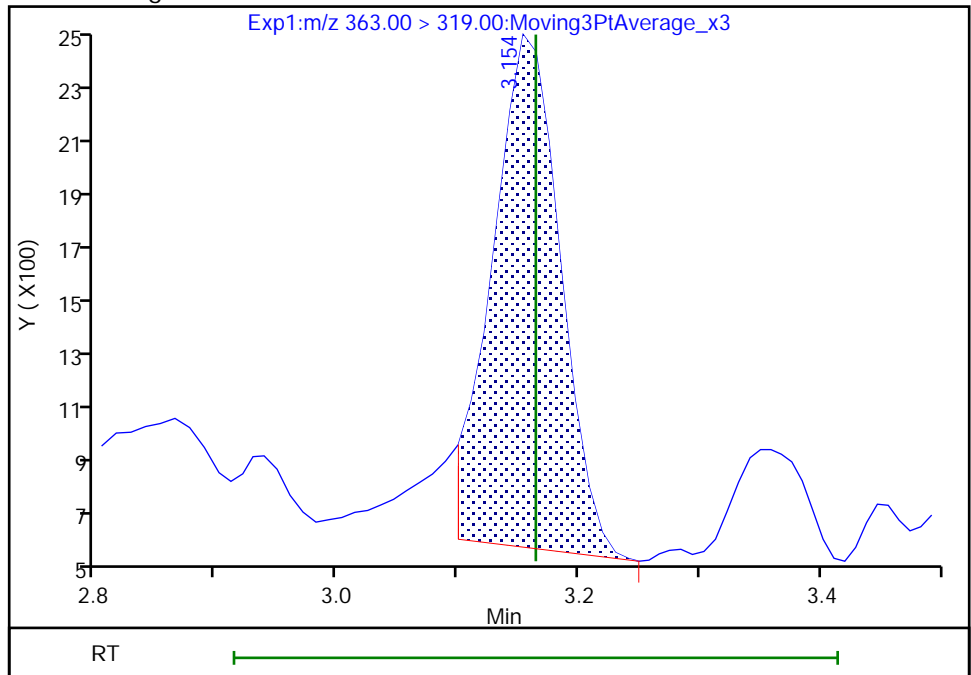
RT: 3.15
Area: 7110
Amount: 0.007415
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 7387
Amount: 0.007704
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:14:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

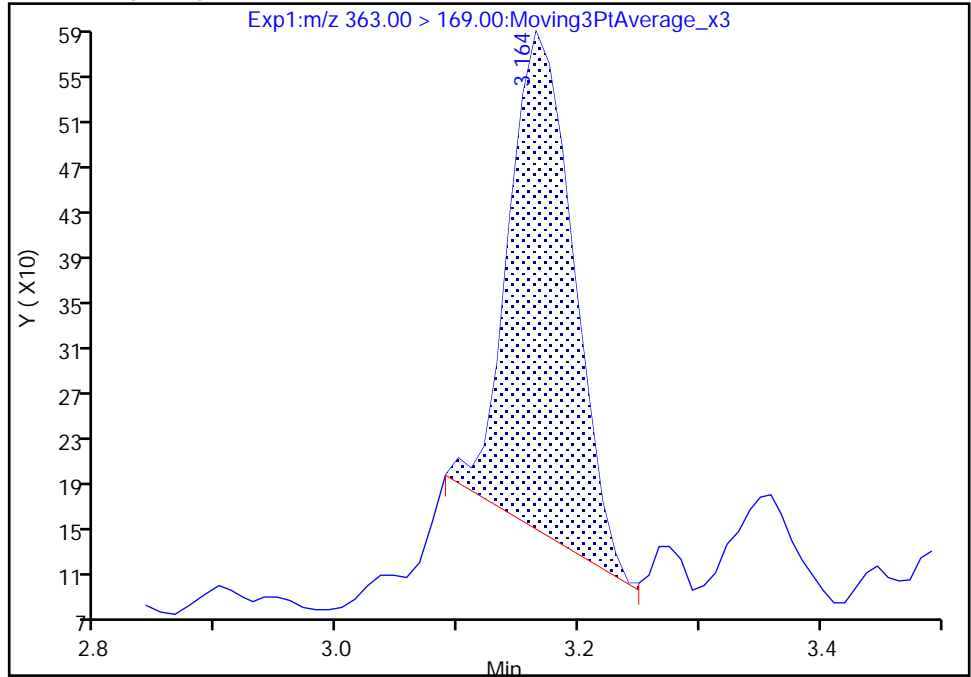
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

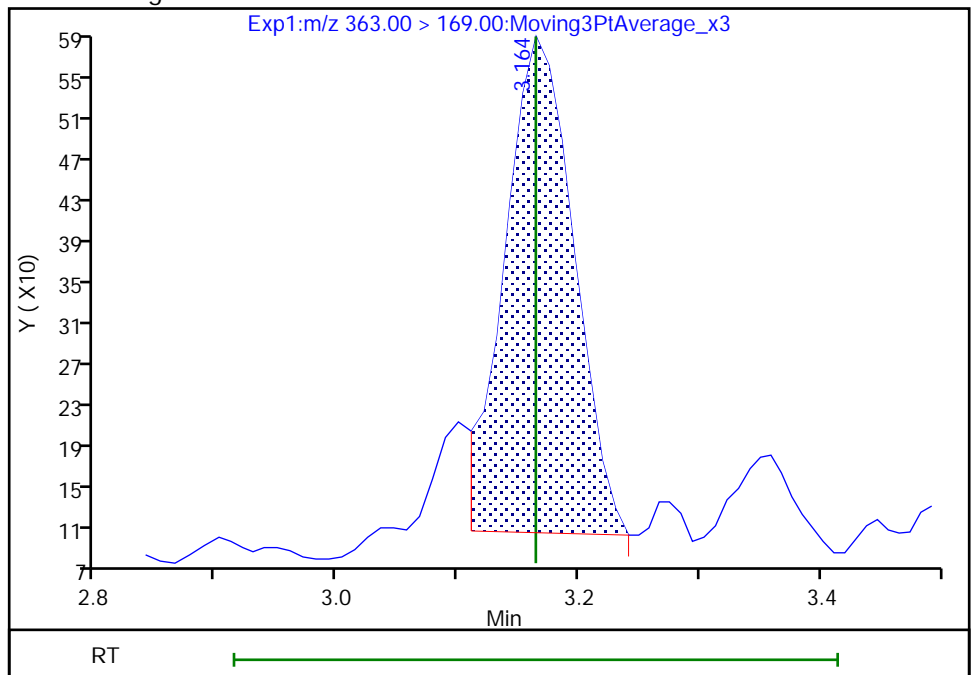
RT: 3.16
Area: 1621
Amount: 0.007415
Amount Units: ng/ml

Processing Integration Results



RT: 3.16
Area: 1896
Amount: 0.007704
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 10:14:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

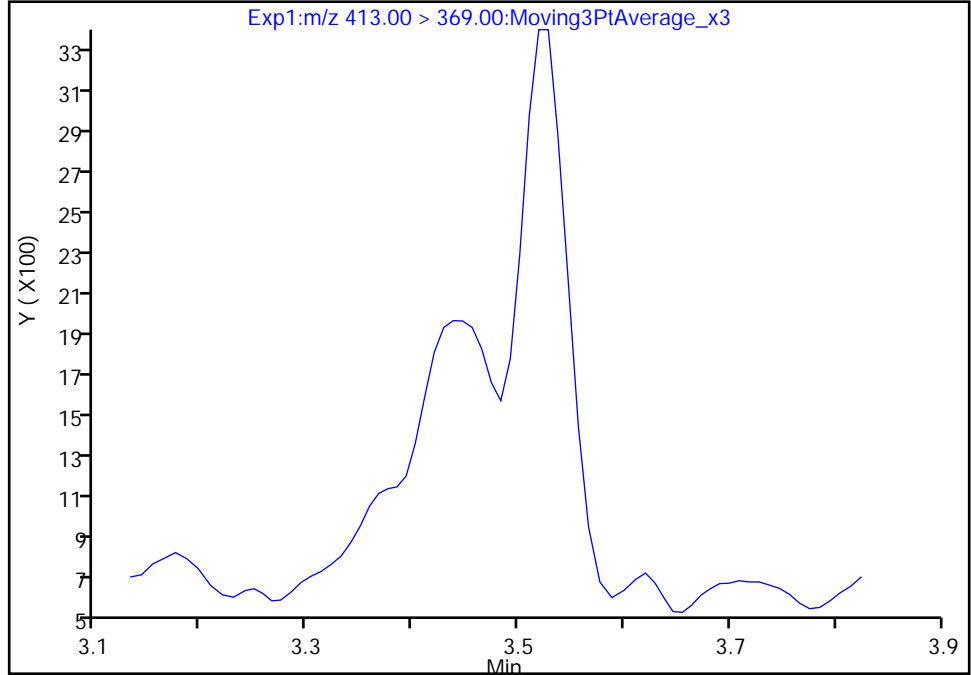
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

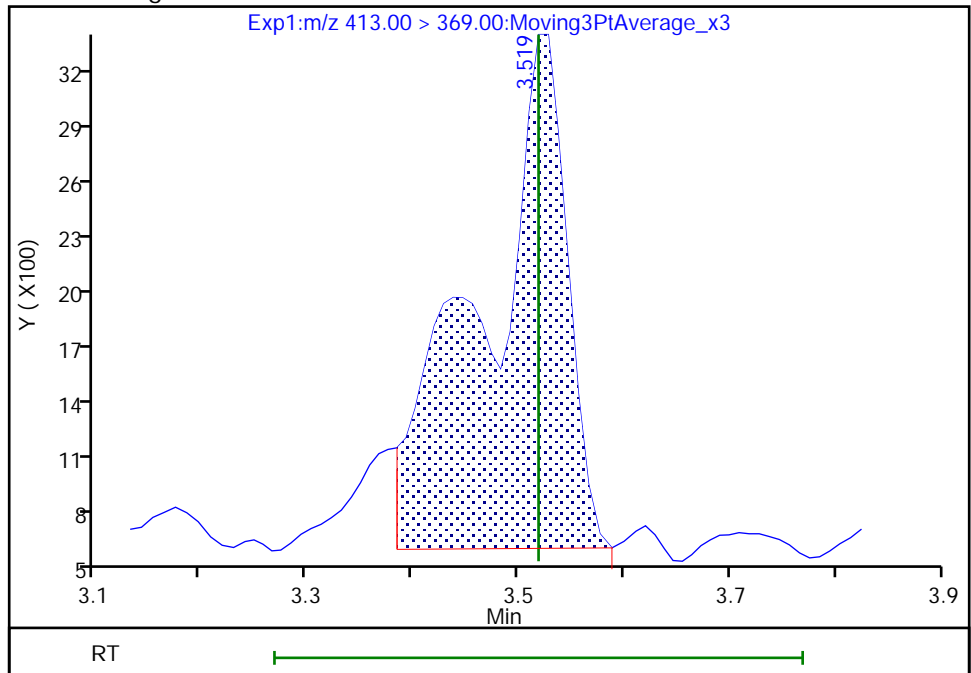
Signal: 1

Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results



RT: 3.52
Area: 15368
Amount: 0.014900
Amount Units: ng/ml

Reviewer: nampitakw, 24-May-2021 10:15:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

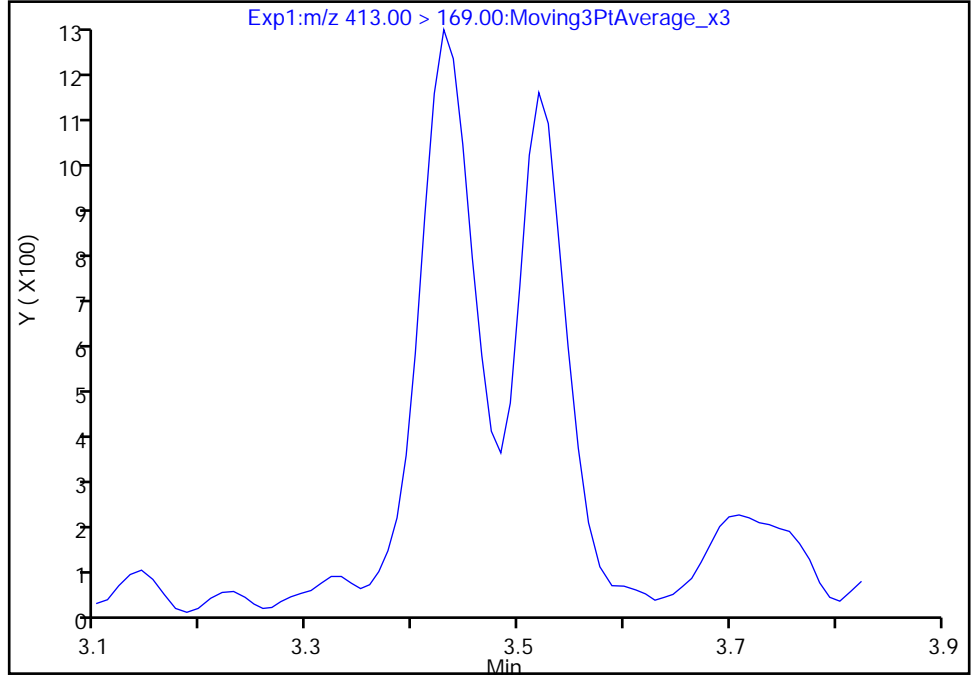
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

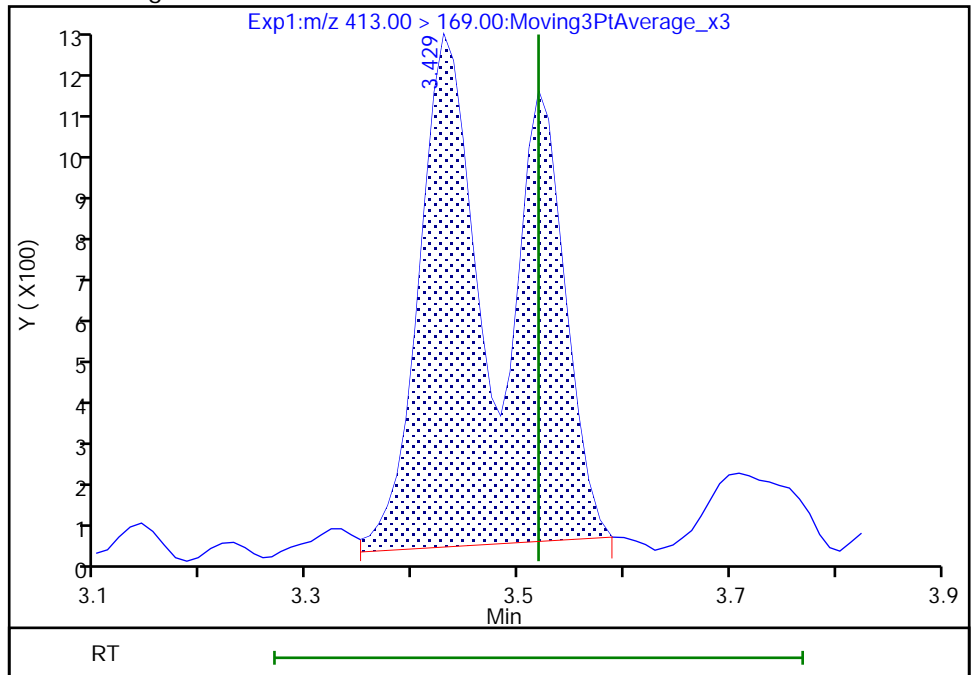
Not Detected
Expected RT: 3.52

Processing Integration Results



RT: 3.43
Area: 7411
Amount: 0.014900
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:15:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

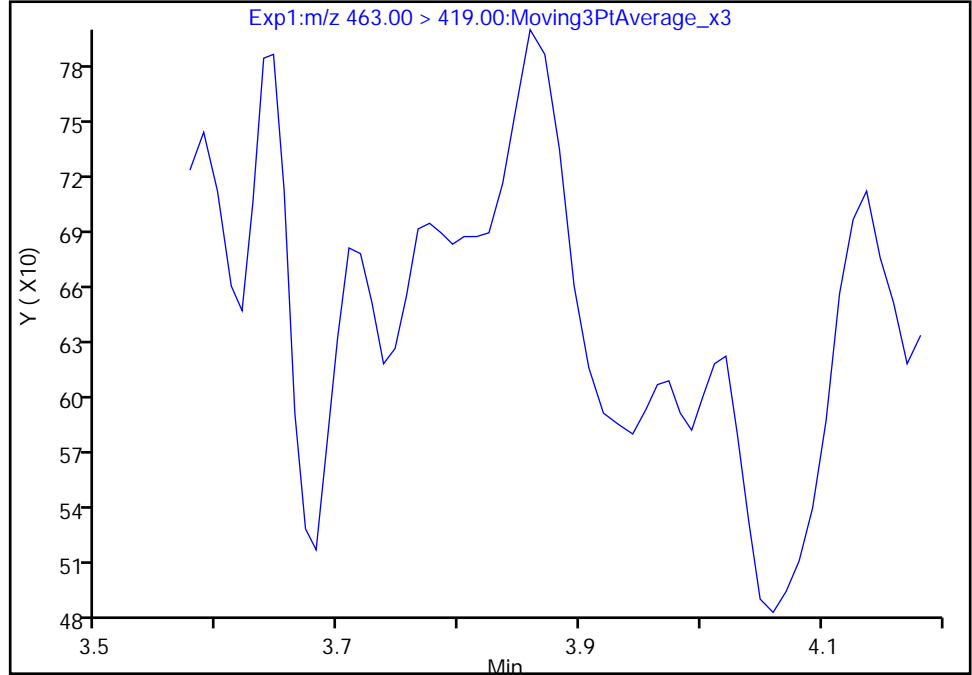
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

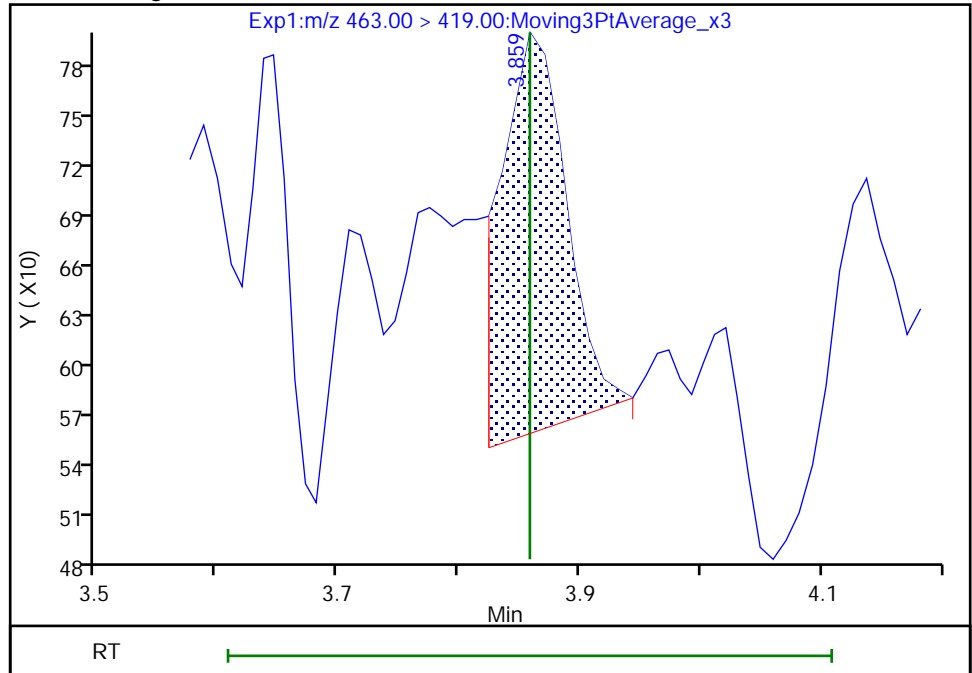
Not Detected
Expected RT: 3.86

Processing Integration Results



RT: 3.86
Area: 845
Amount: 0.001027
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:18:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

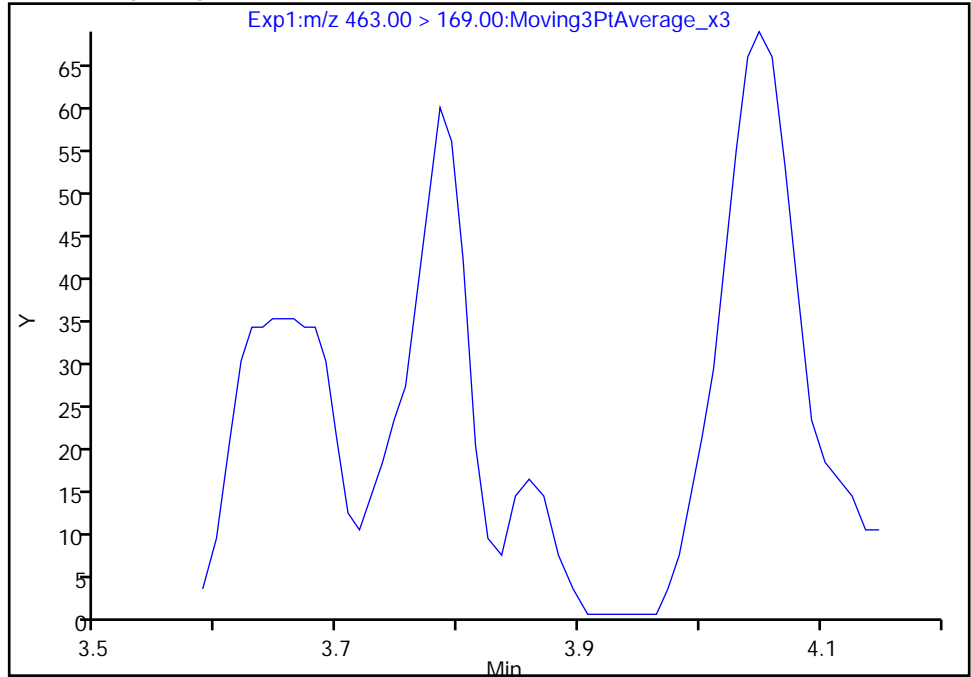
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

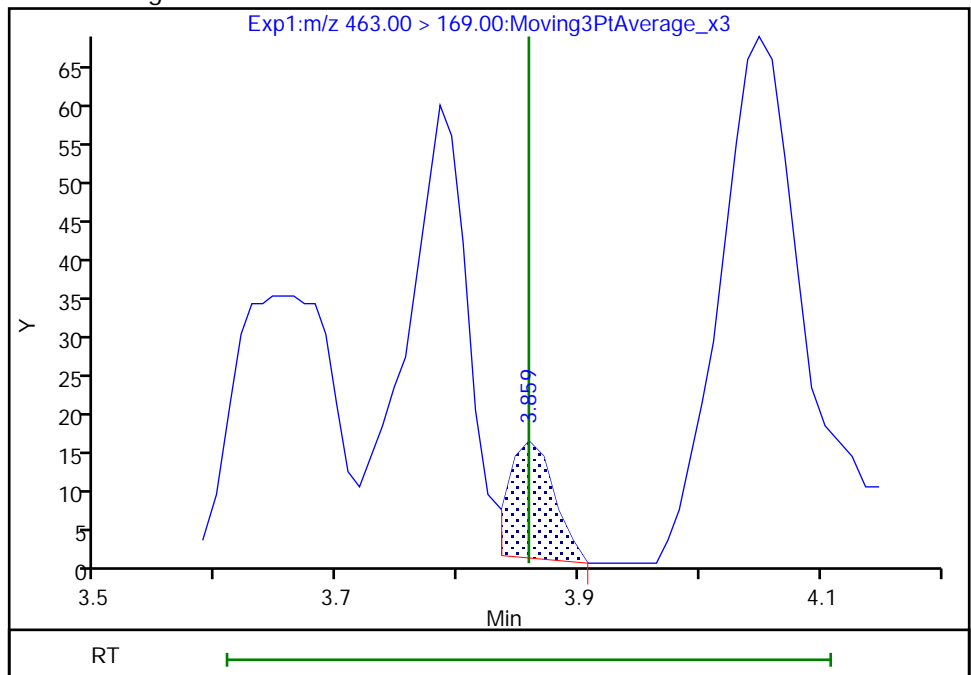
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.86
Area: 38
Amount: 0.001027
Amount Units: ng/ml



Reviewer: nampitkw, 24-May-2021 10:18:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

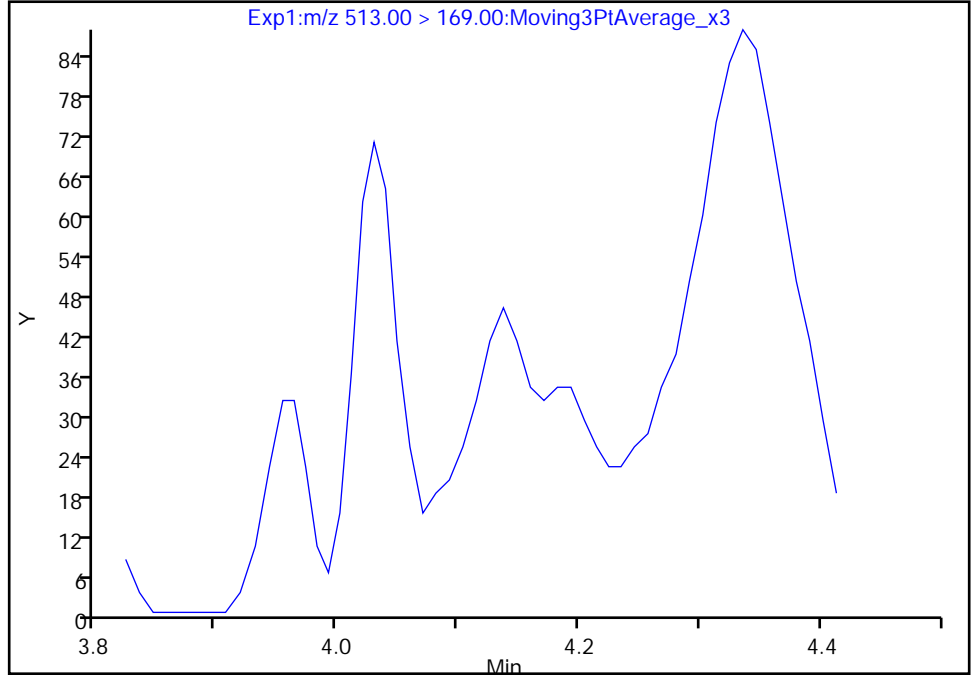
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Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

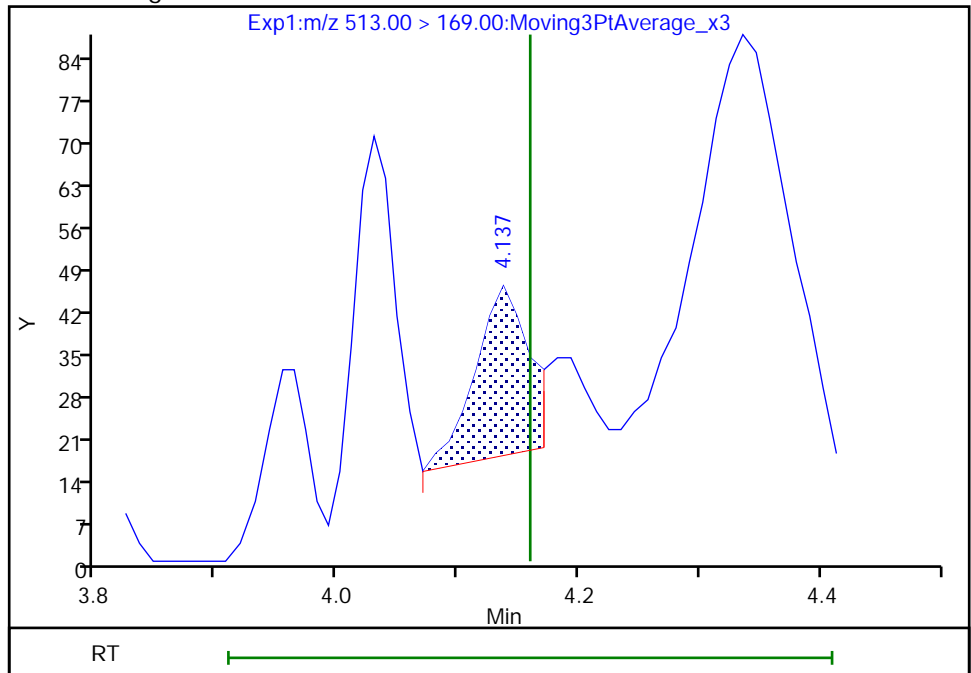
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 85
Amount: 0.001649
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:18:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

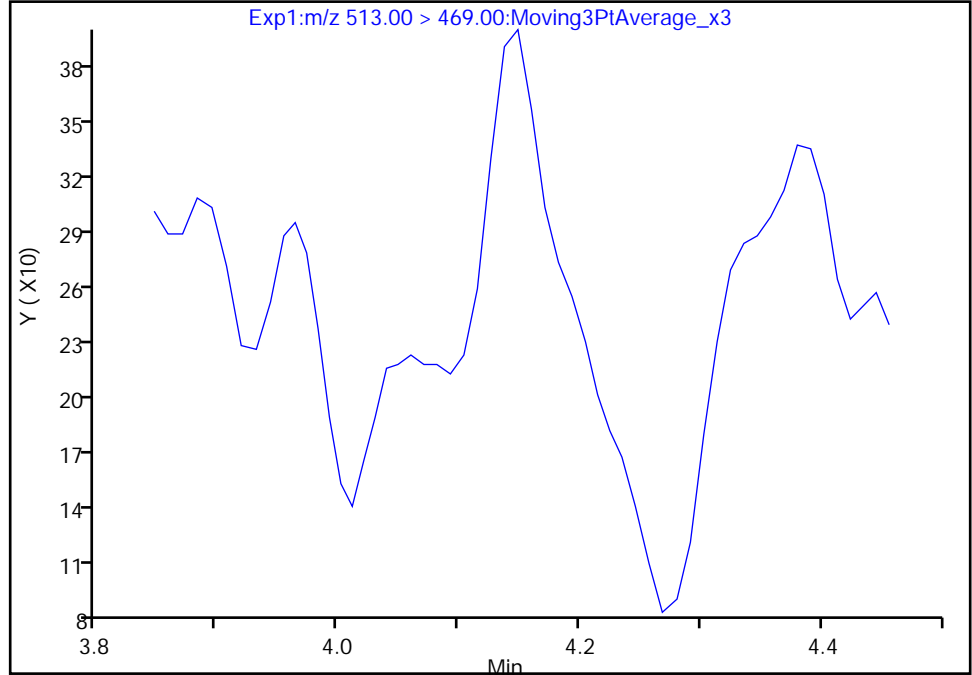
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

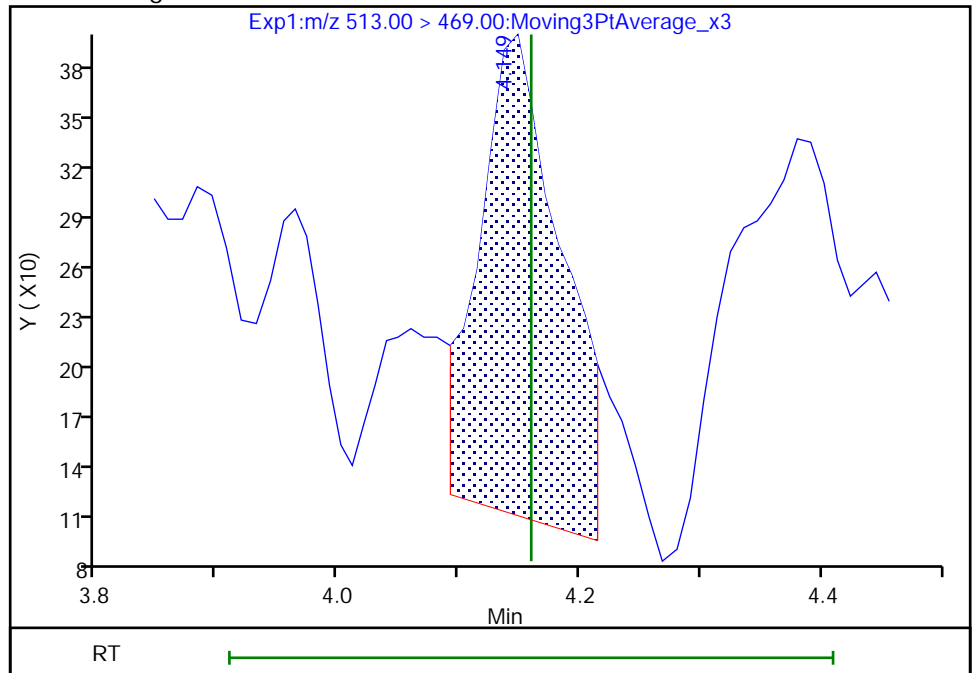
Not Detected
Expected RT: 4.16

Processing Integration Results



RT: 4.15
Area: 1314
Amount: 0.001649
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 10:18:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

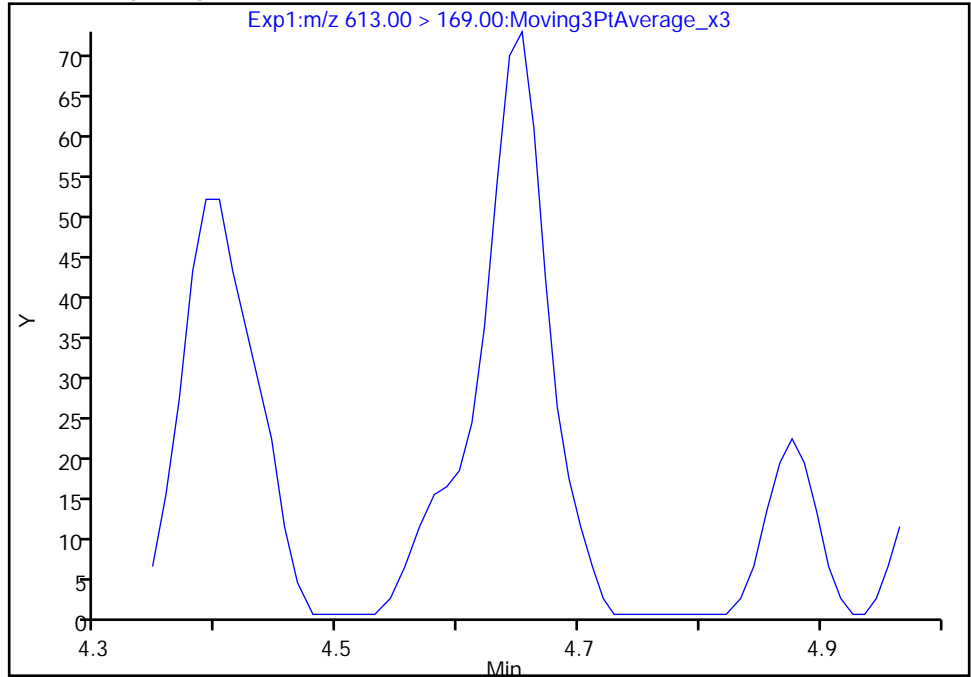
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

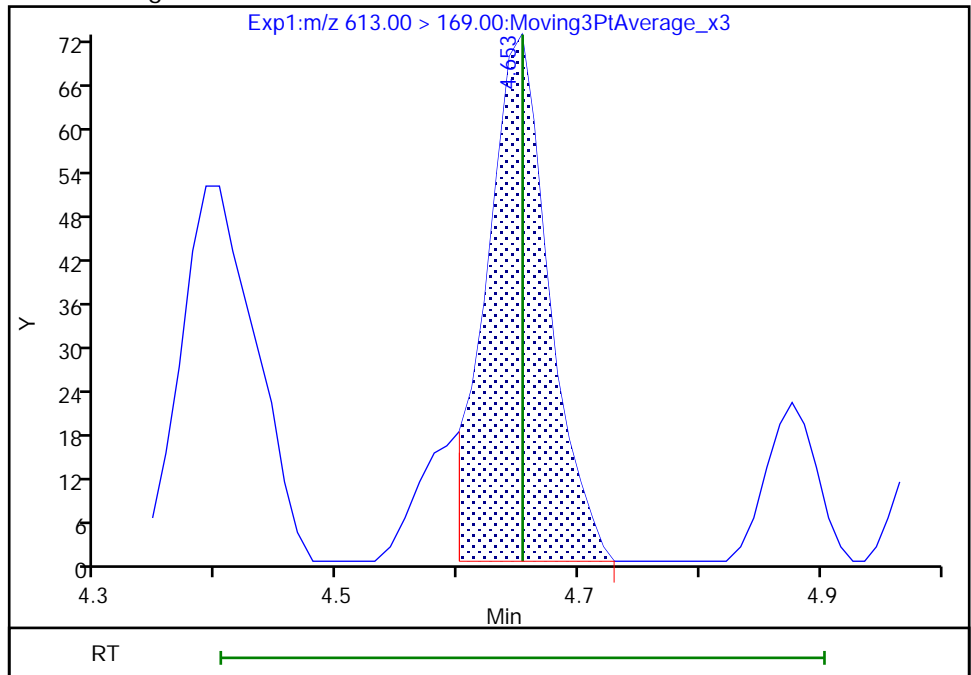
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.65
Area: 260
Amount: 0.001608
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:20:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

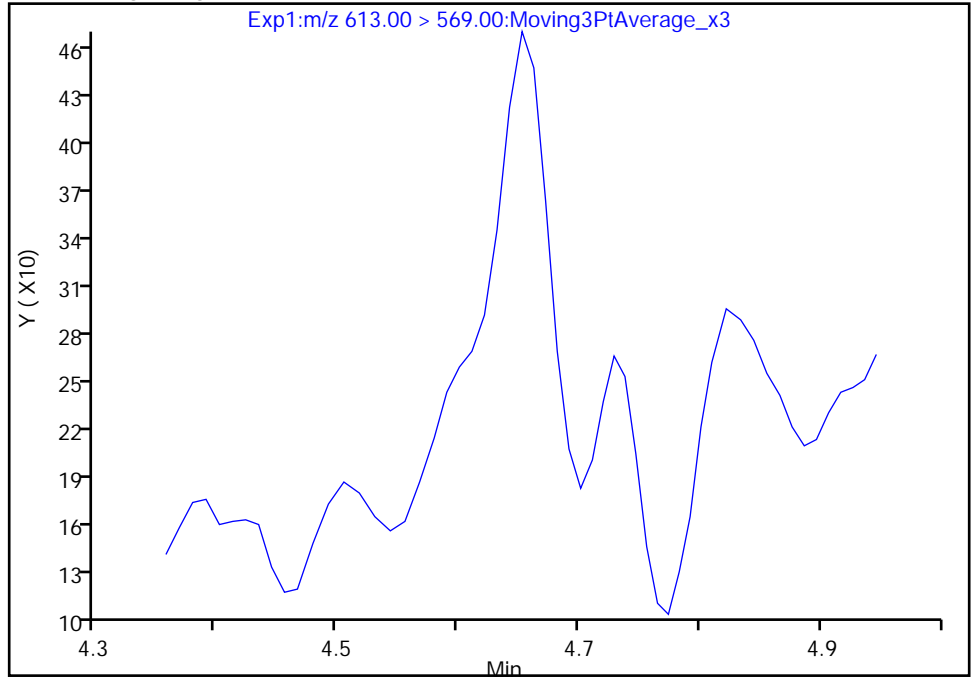
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

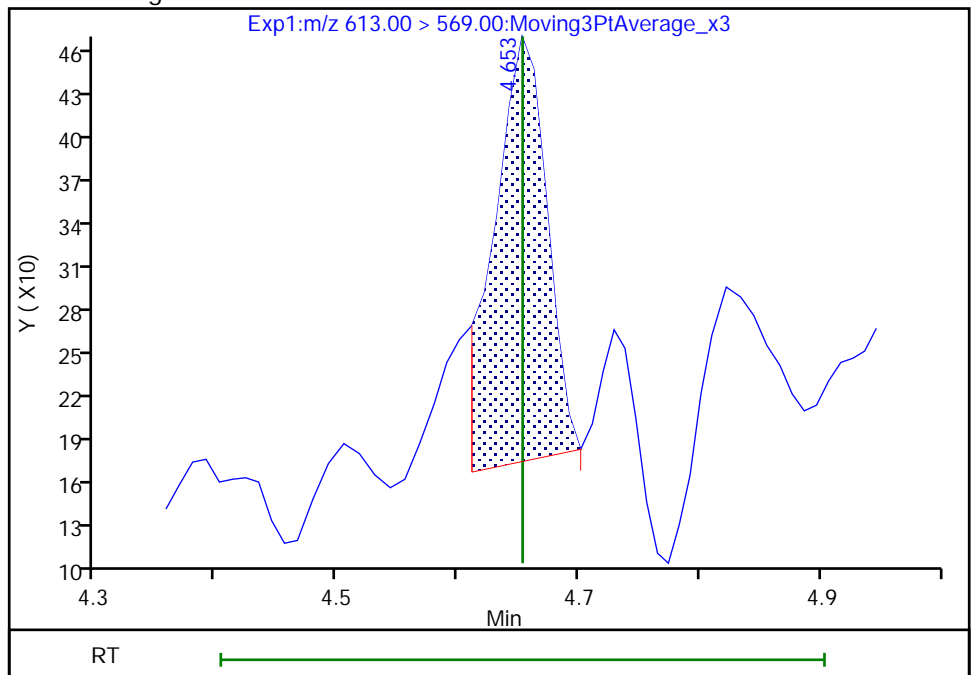
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.65
Area: 894
Amount: 0.001608
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:20:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

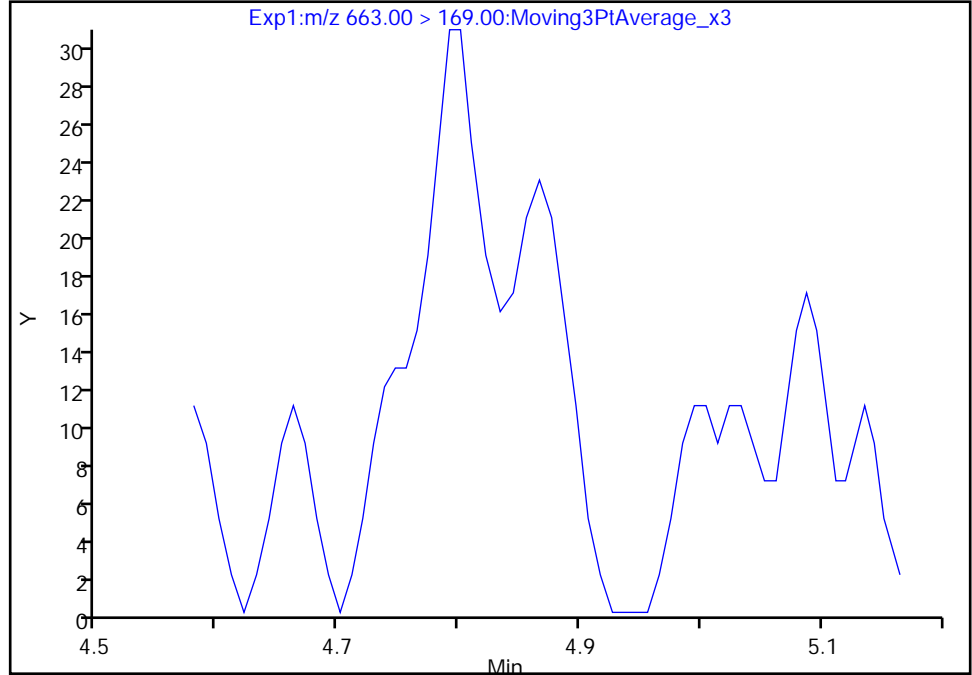
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

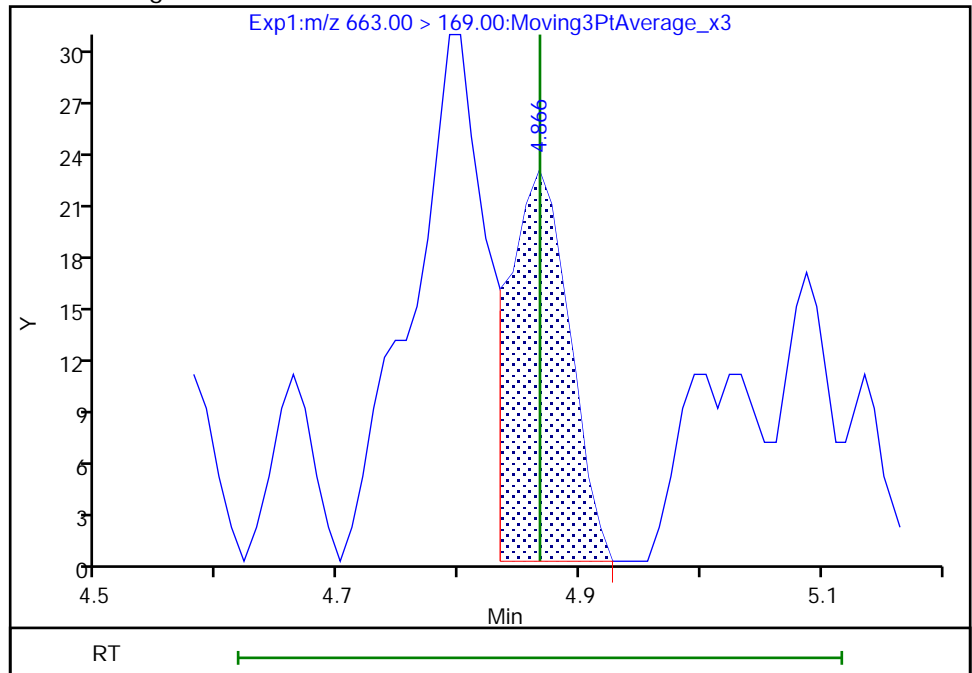
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.87
Area: 77
Amount: 0.001133
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:20:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

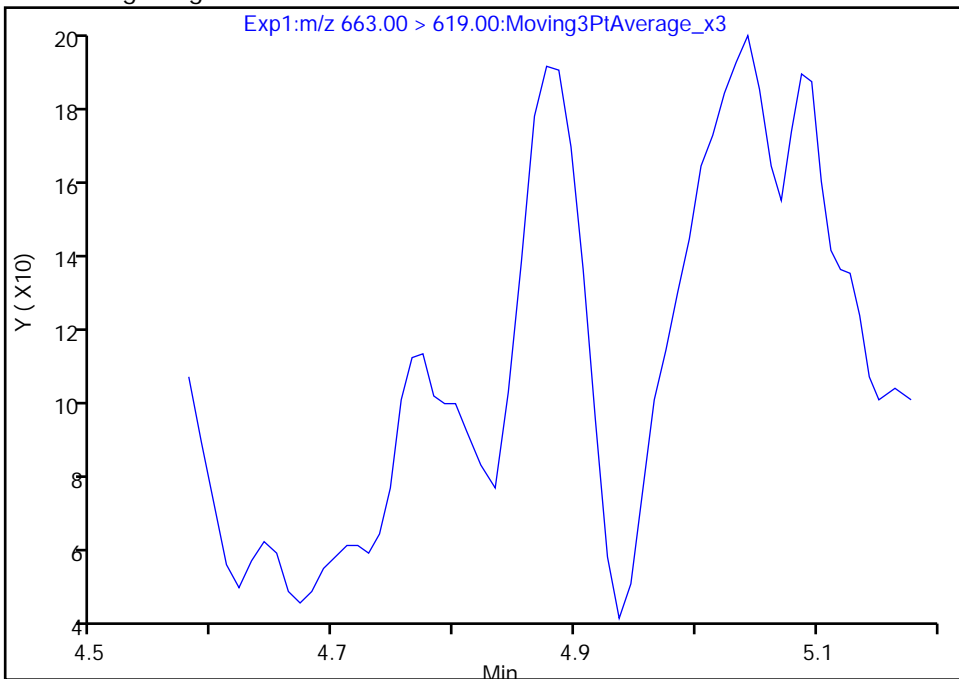
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

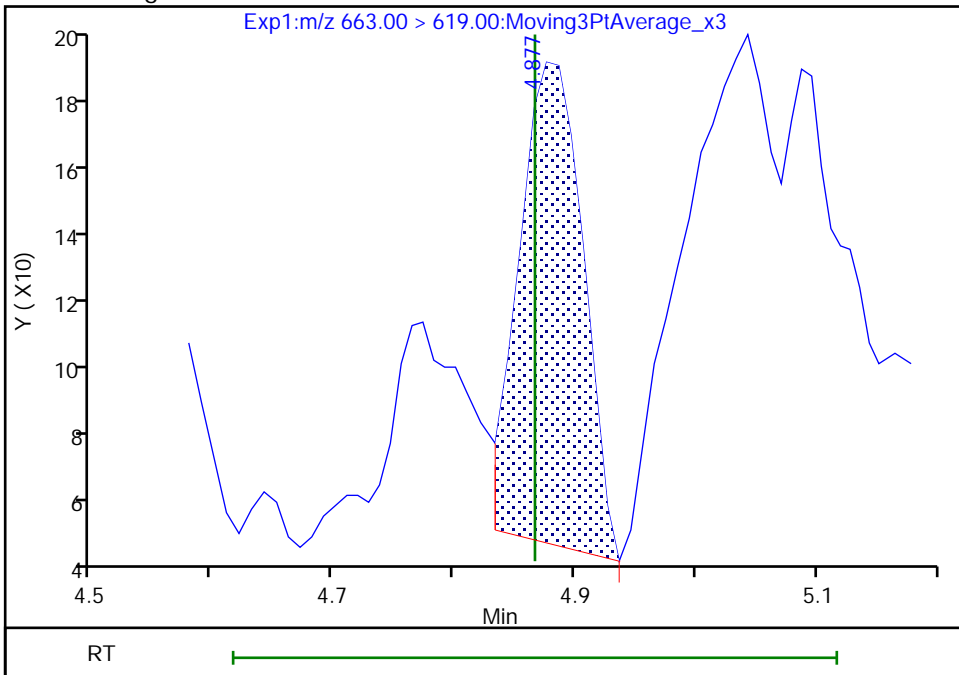
Not Detected
Expected RT: 4.87

Processing Integration Results



RT: 4.88
Area: 508
Amount: 0.001133
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:20:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

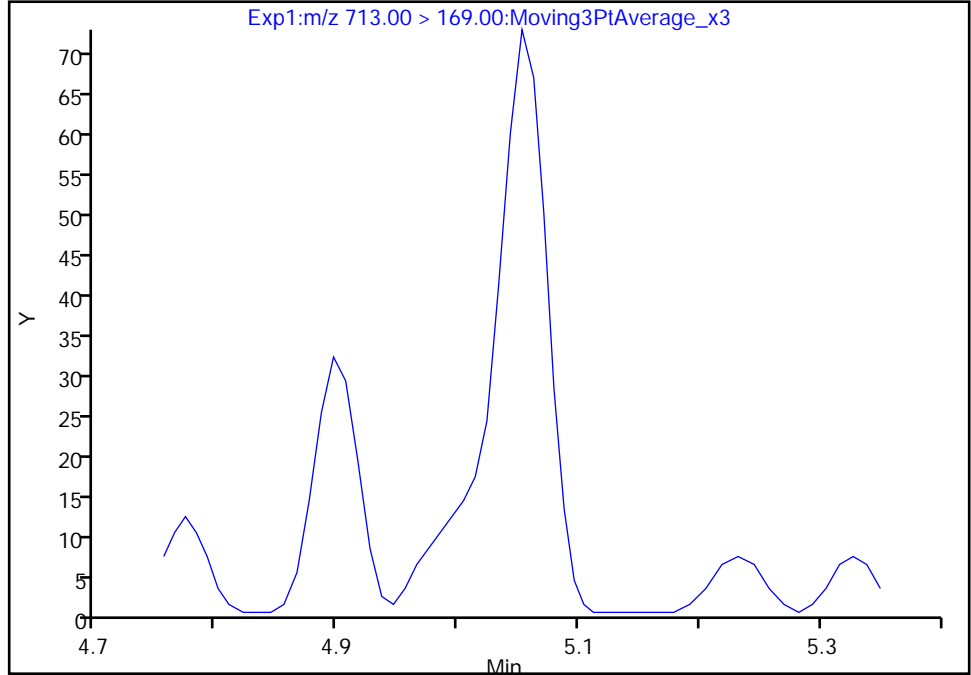
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

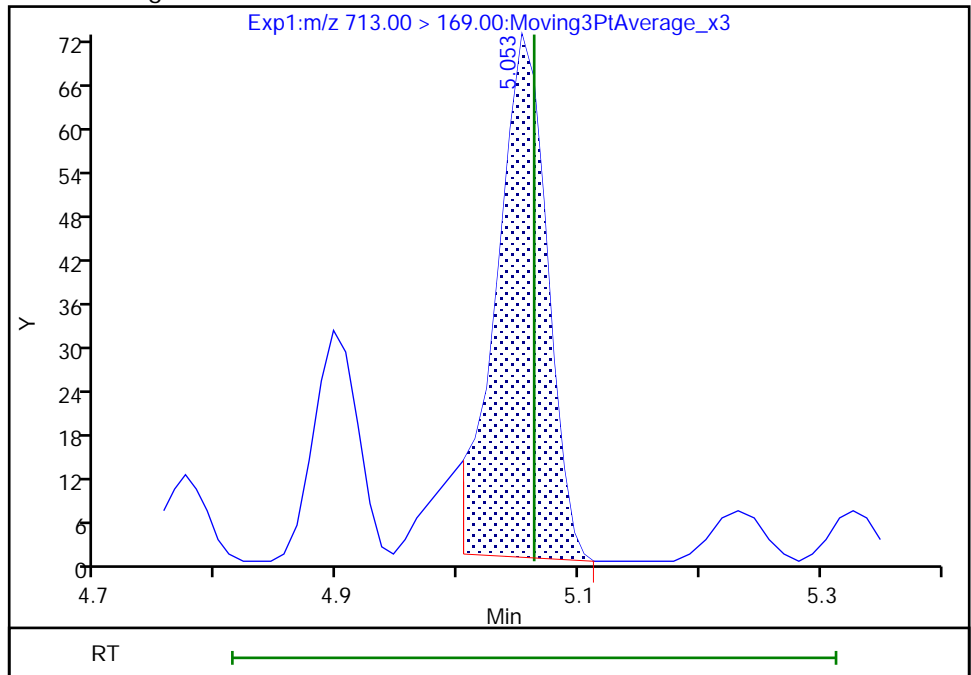
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.05
Area: 210
Amount: 0.002441
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:21:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

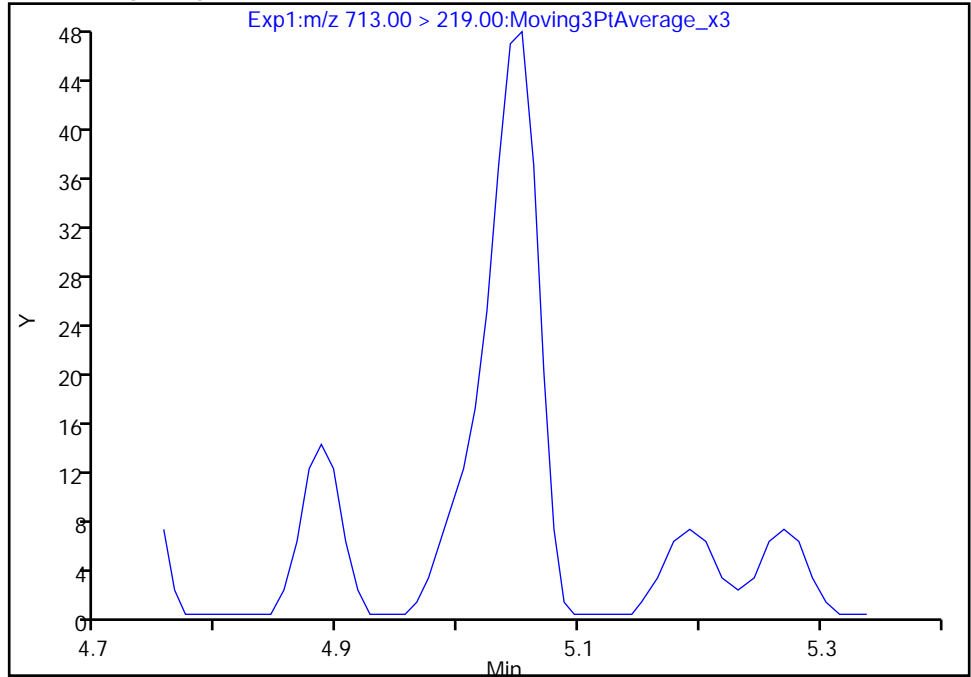
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

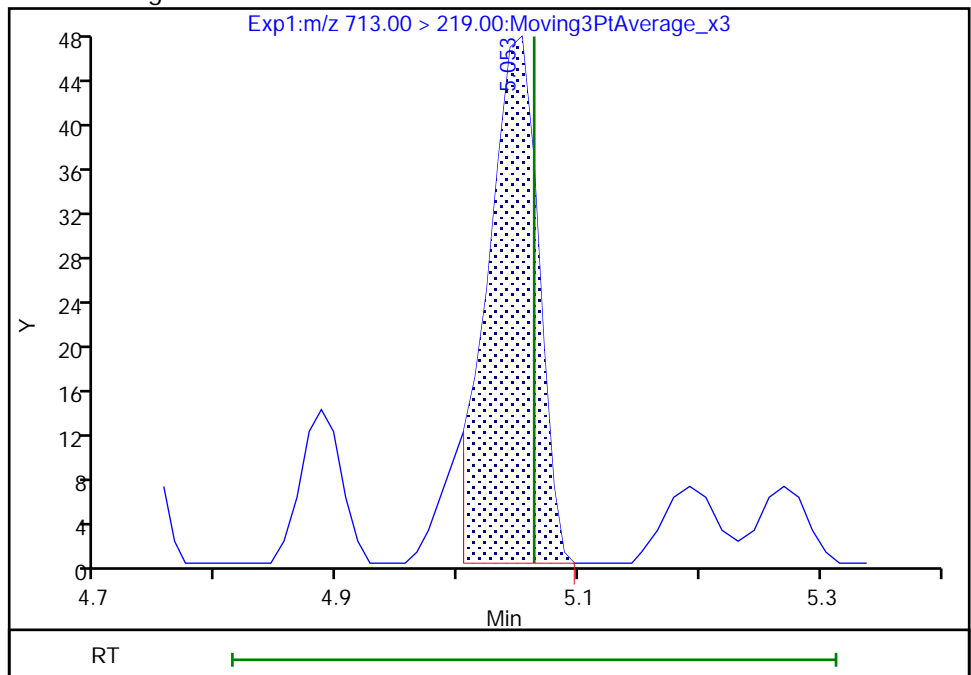
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.05
Area: 138
Amount: 0.002441
Amount Units: ng/ml



Reviewer: deannd, 24-May-2021 16:33:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

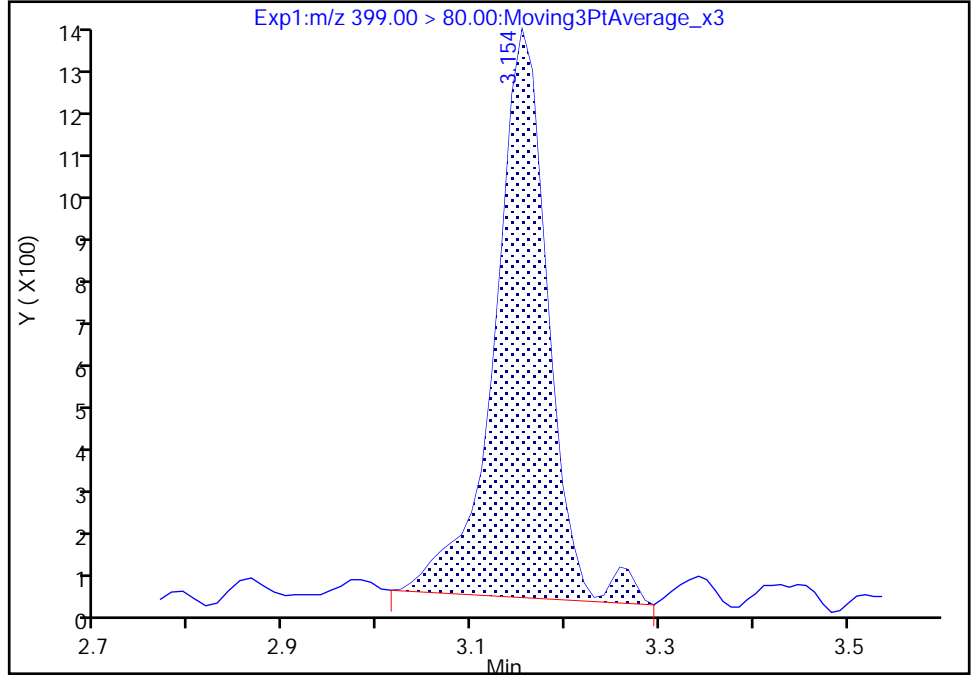
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

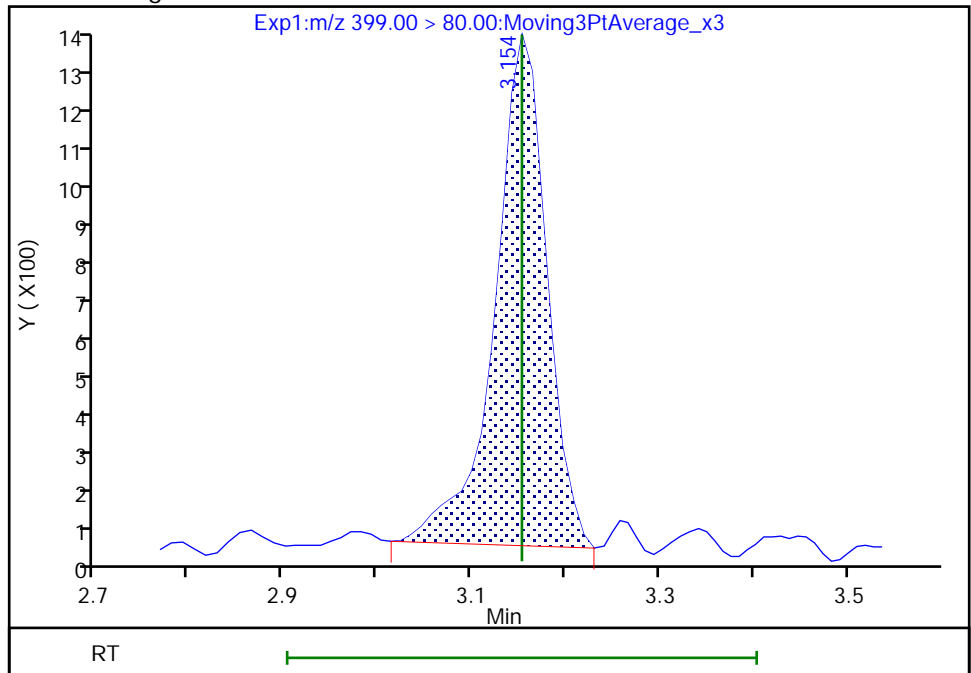
RT: 3.15
Area: 5104
Amount: 0.005465
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 4904
Amount: 0.005251
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:12:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

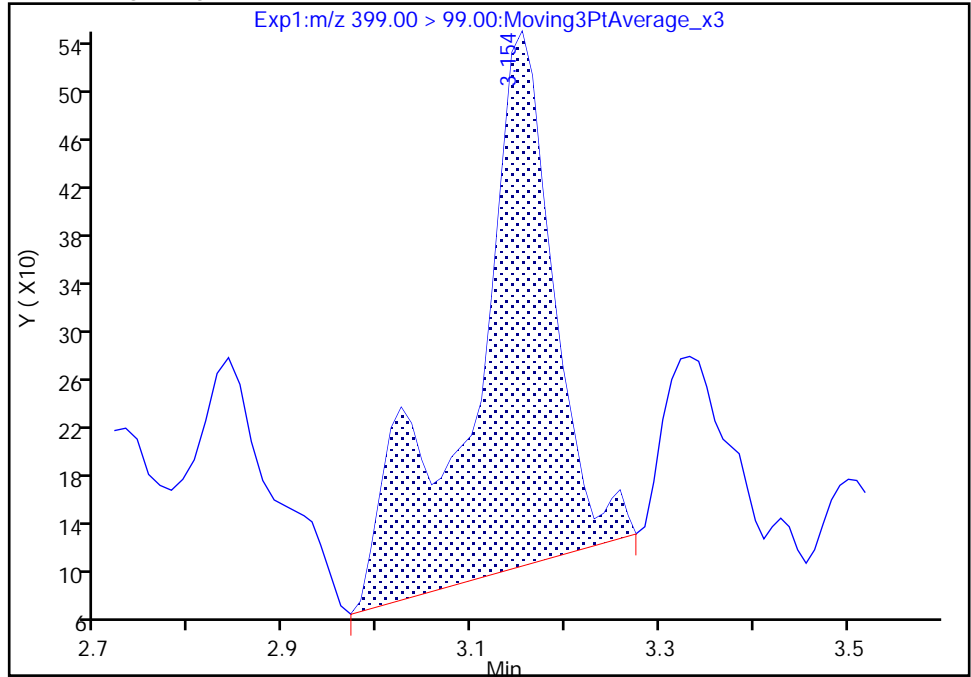
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Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

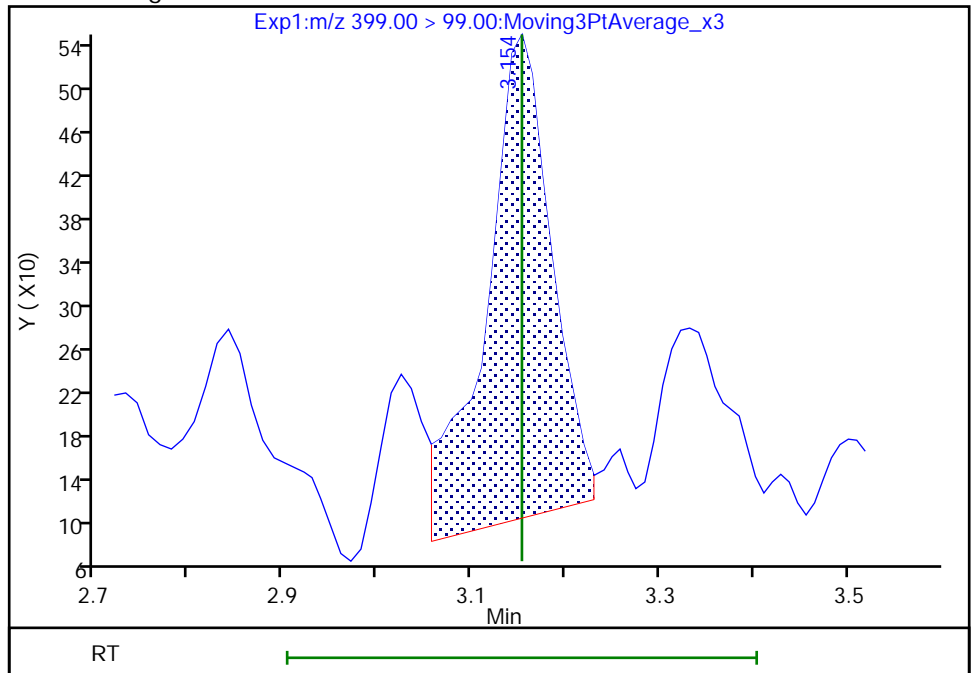
RT: 3.15
Area: 2683
Amount: 0.005465
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 2136
Amount: 0.005251
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 10:12:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

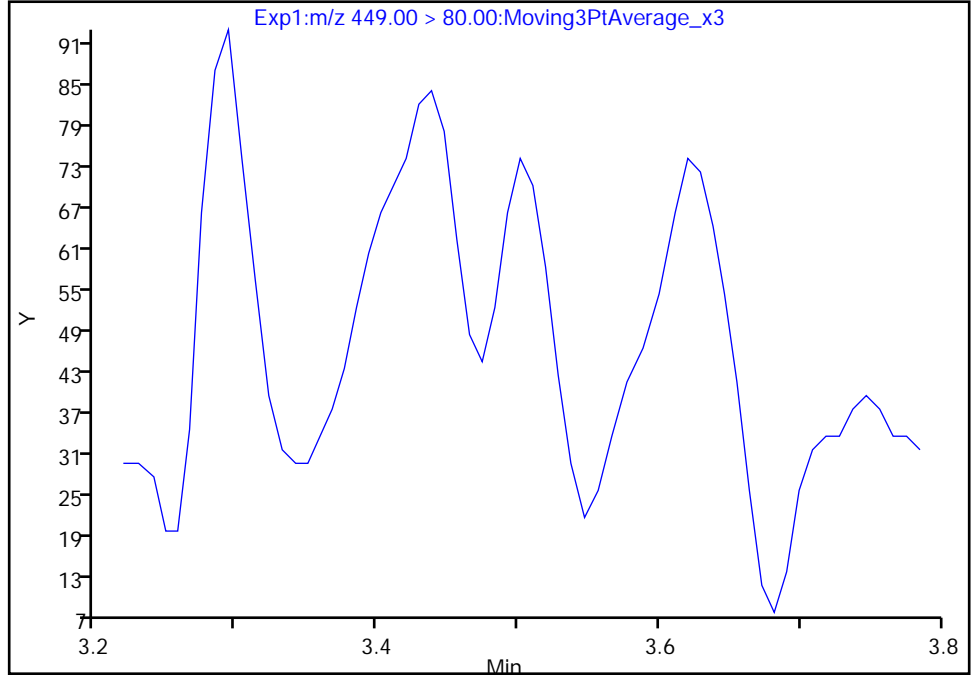
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

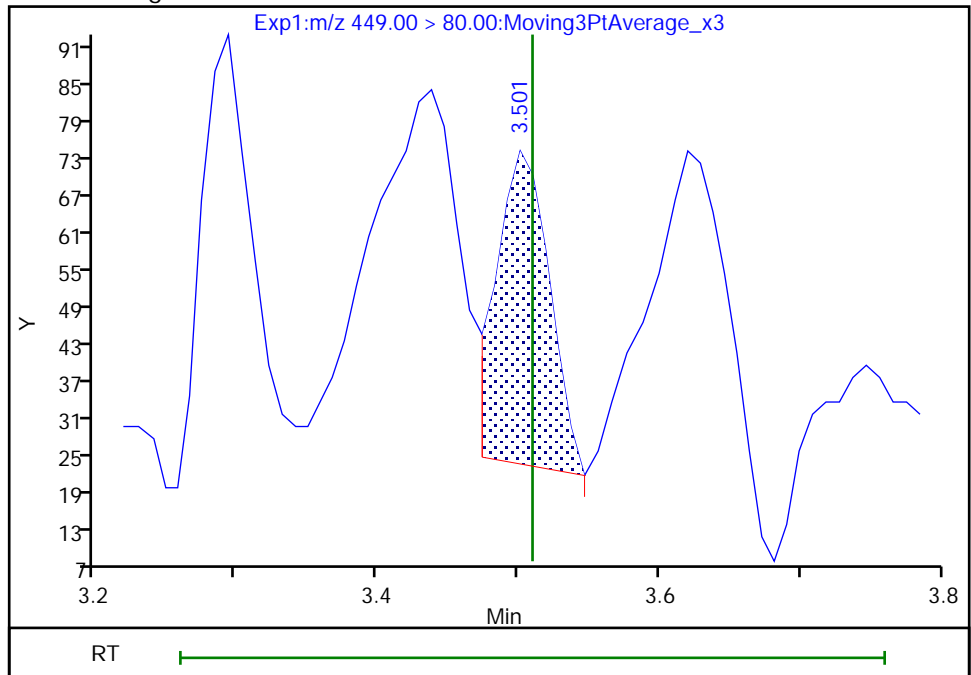
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.50
Area: 131
Amount: 0.000176
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:14:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

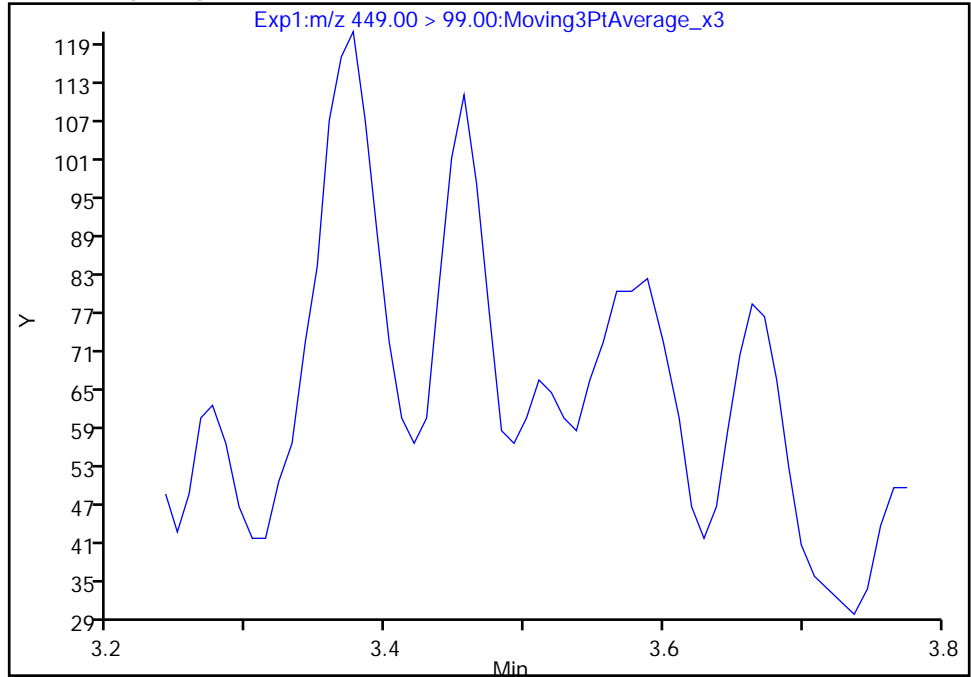
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

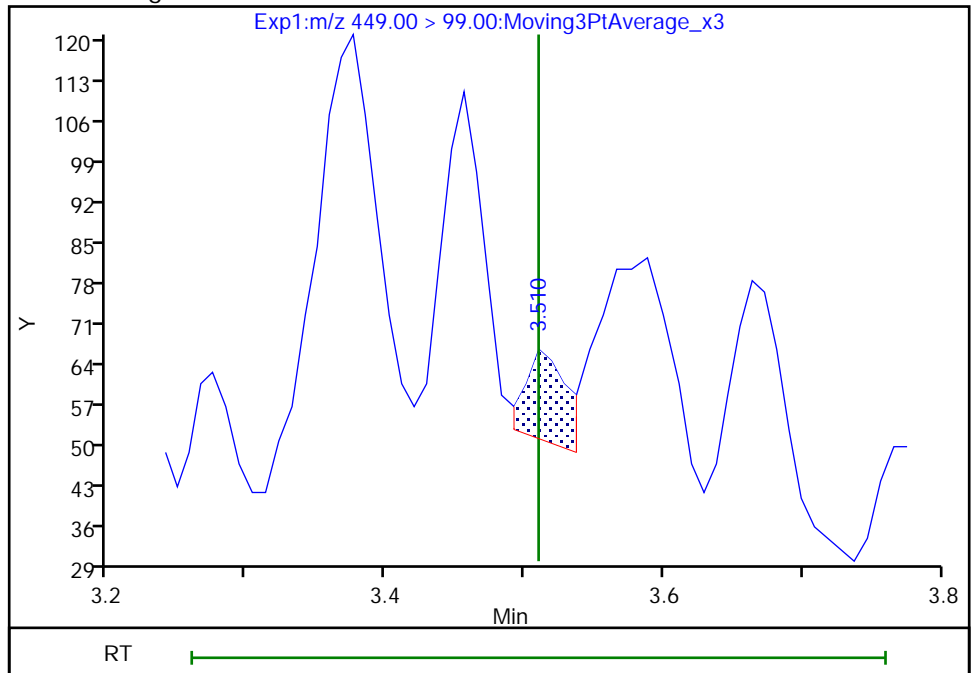
Not Detected
Expected RT: 3.51

Processing Integration Results



RT: 3.51
Area: 30
Amount: 0.000176
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:14:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

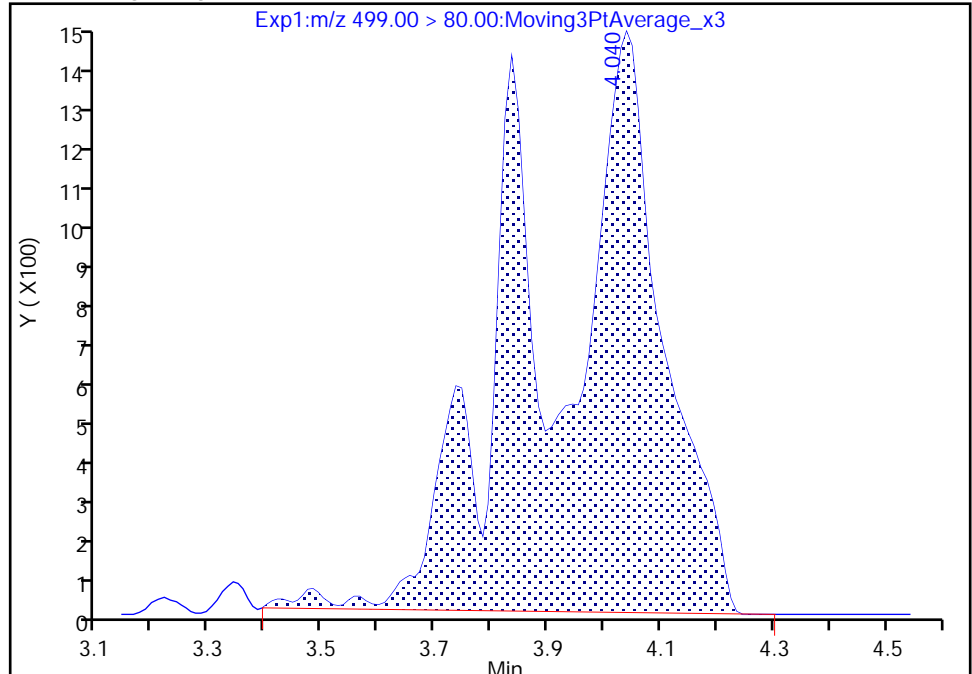
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 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

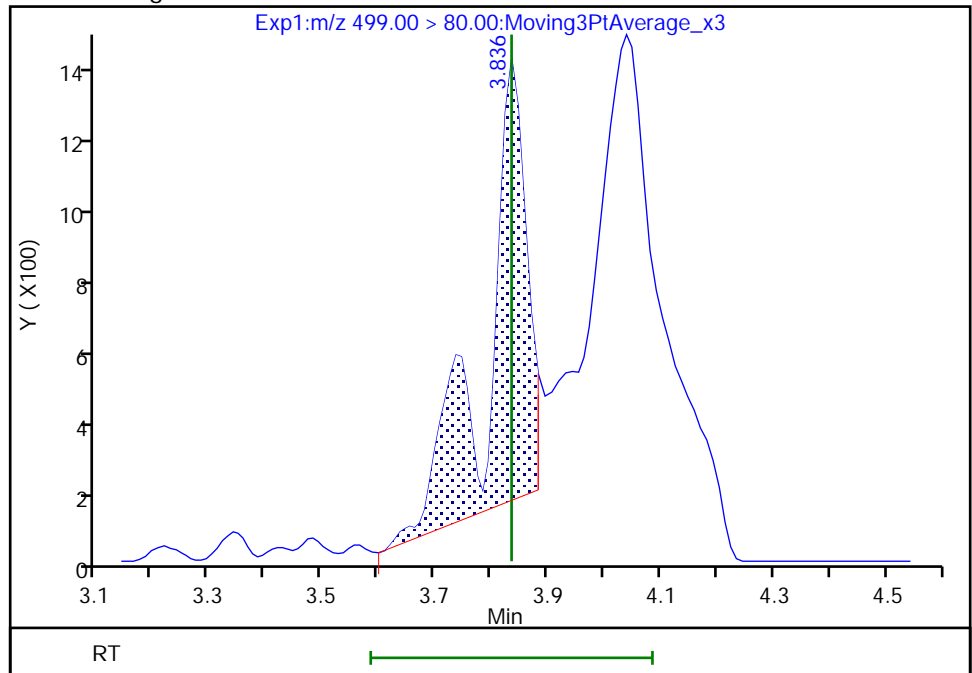
RT: 4.04
Area: 21546
Amount: 0.033413
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 5879
Amount: 0.009117
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 24-May-2021 16:32:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

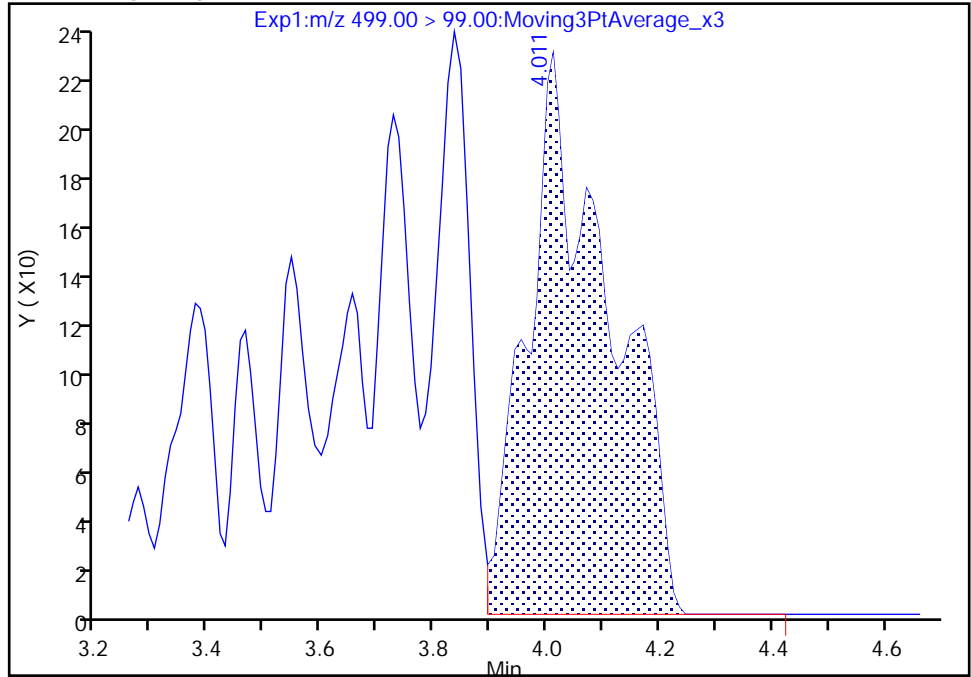
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 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

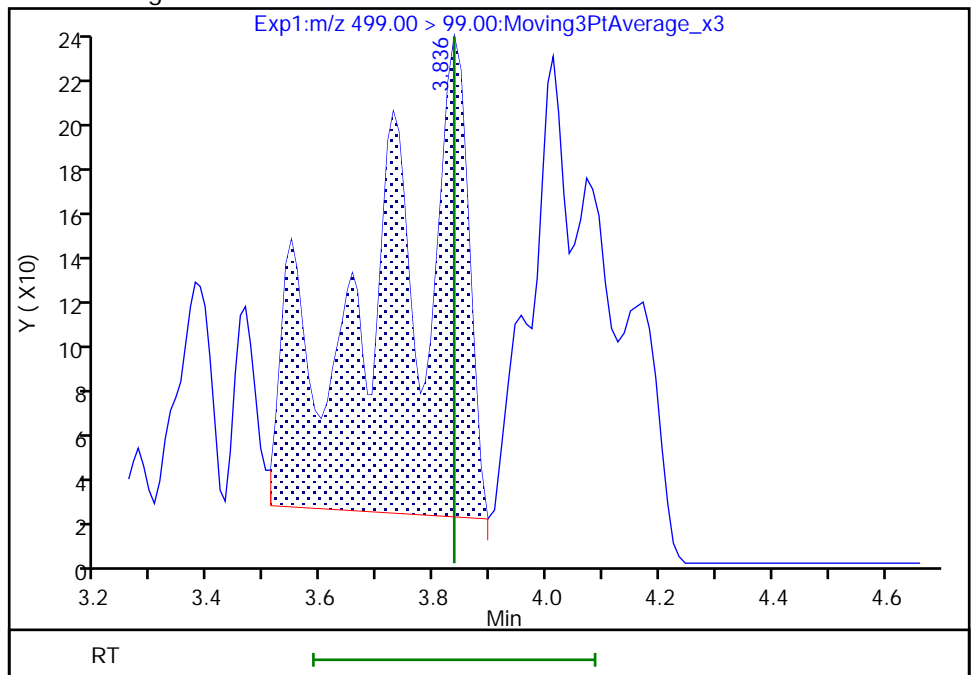
RT: 4.01
Area: 2328
Amount: 0.033413
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 2276
Amount: 0.009117
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 24-May-2021 16:32:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

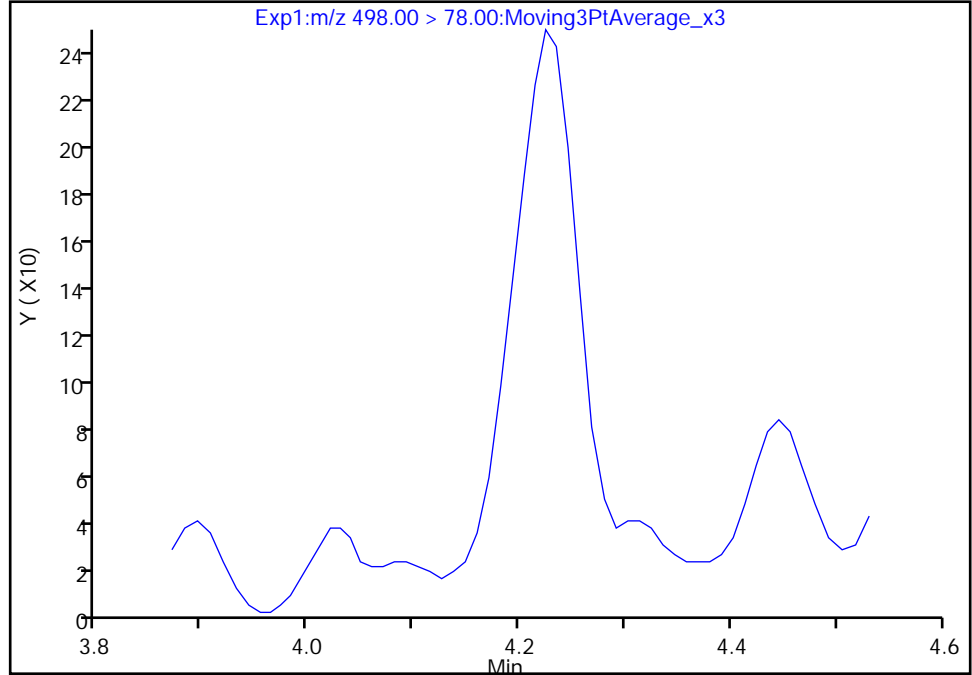
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

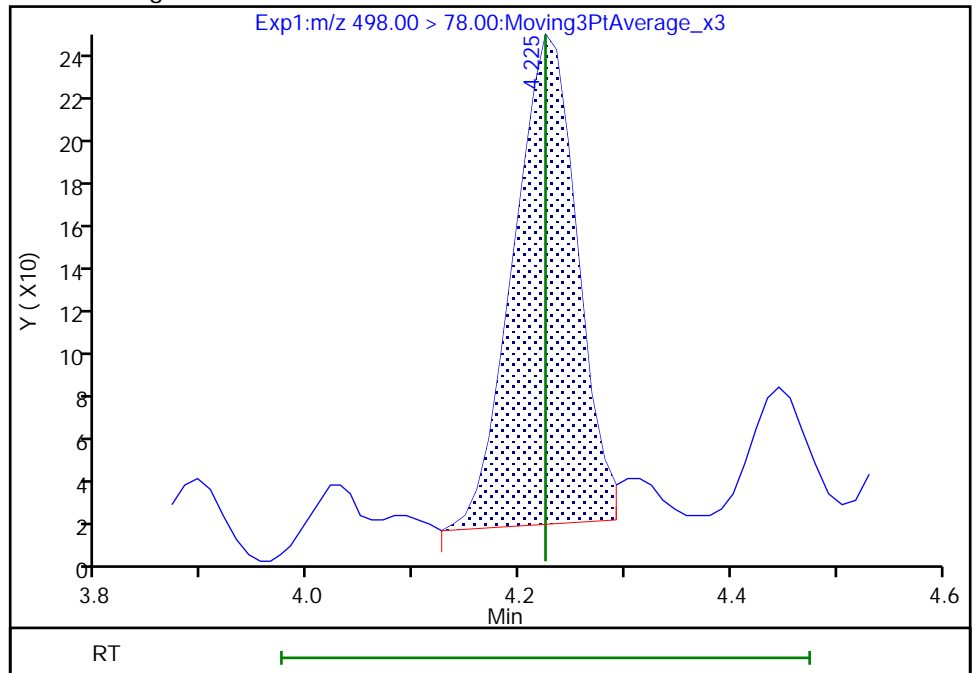
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22
Area: 942
Amount: 0.000954
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:19:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

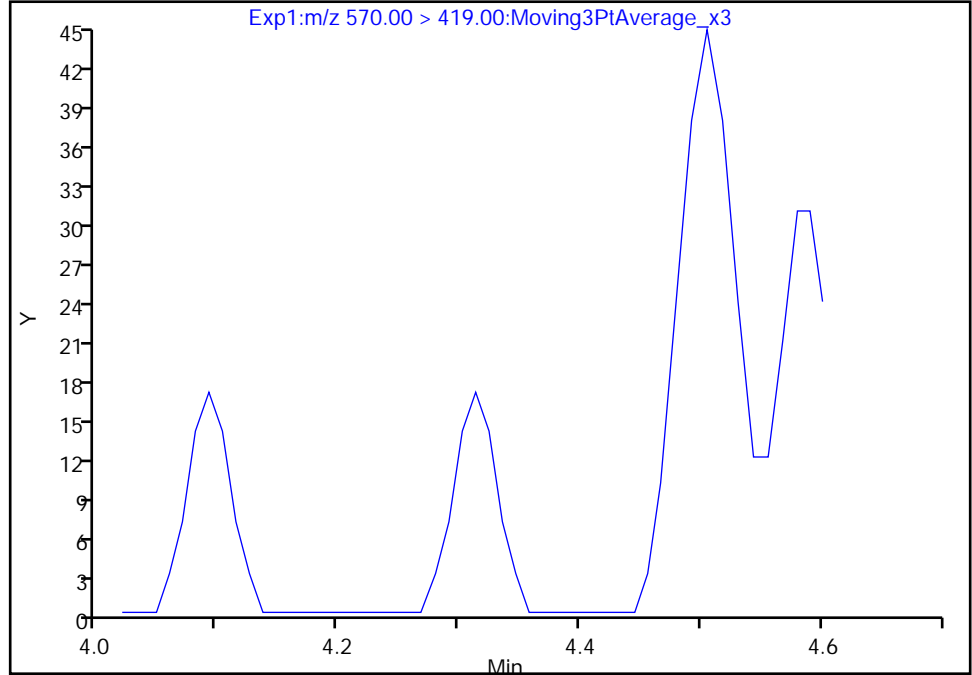
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

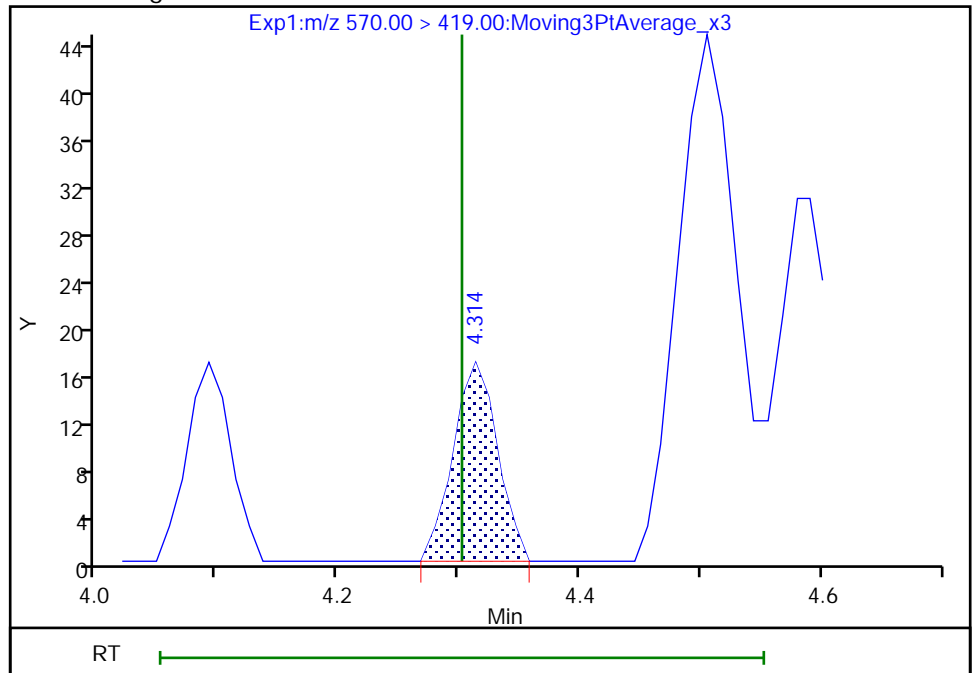
Signal: 1

Not Detected
Expected RT: 4.30

Processing Integration Results



Manual Integration Results



RT: 4.31
Area: 43
Amount: 0.001024
Amount Units: ng/ml

Reviewer: nampitakw, 24-May-2021 10:19:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

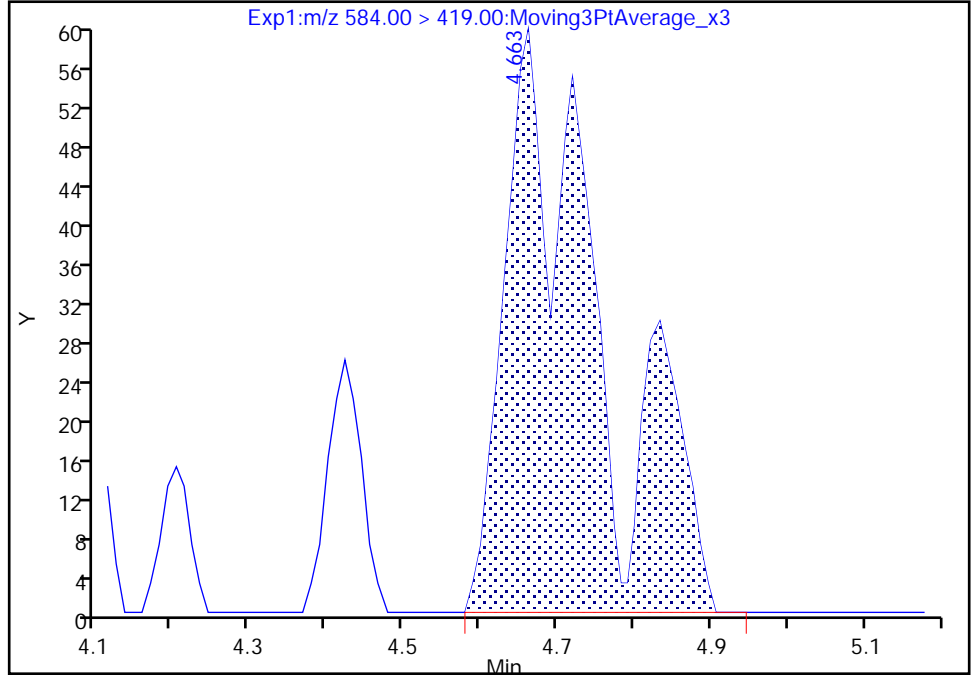
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

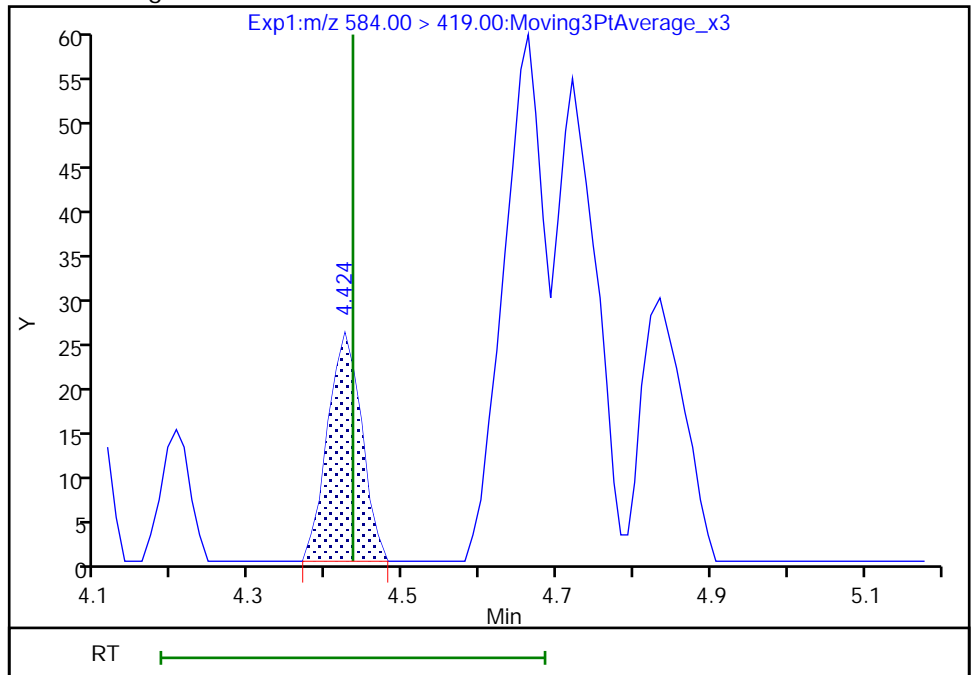
RT: 4.66
Area: 517
Amount: 0.000360
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 79
Amount: -0.009263
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:19:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

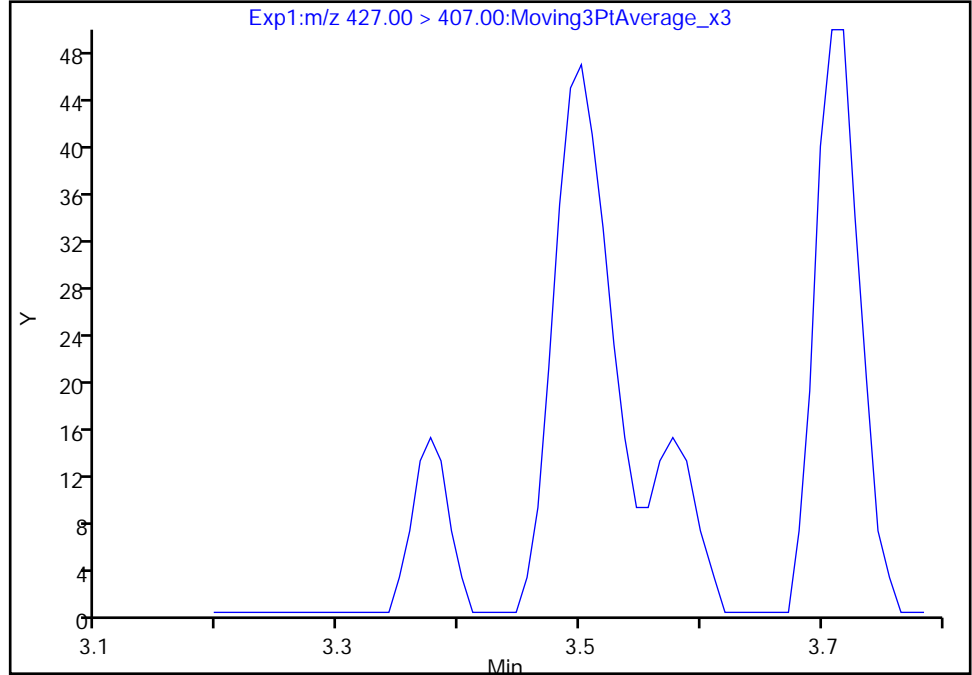
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

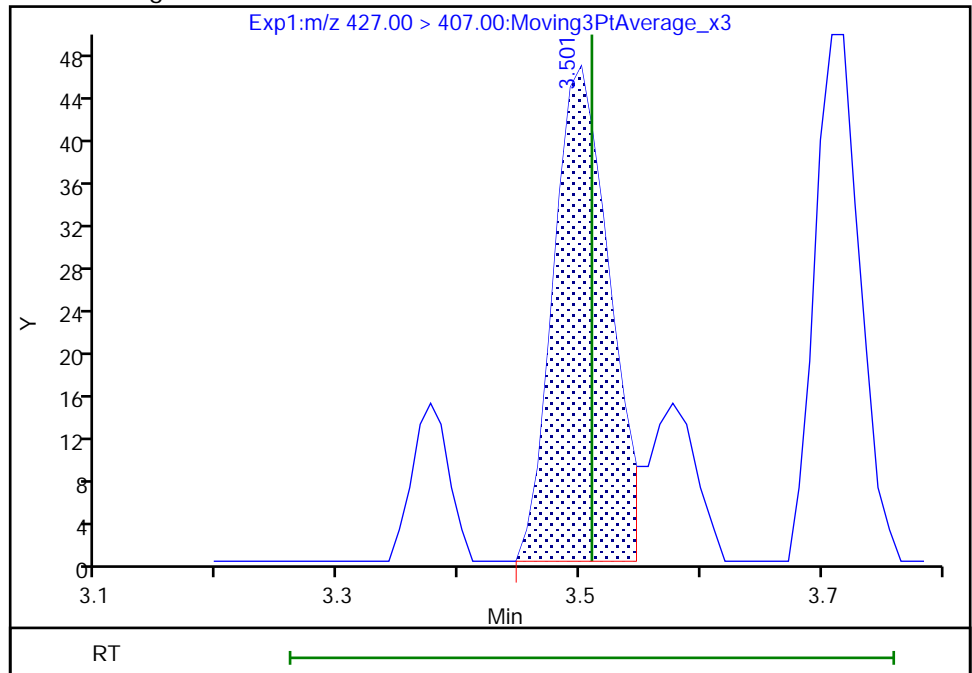
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.50
Area: 149
Amount: 0.001401
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:15:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

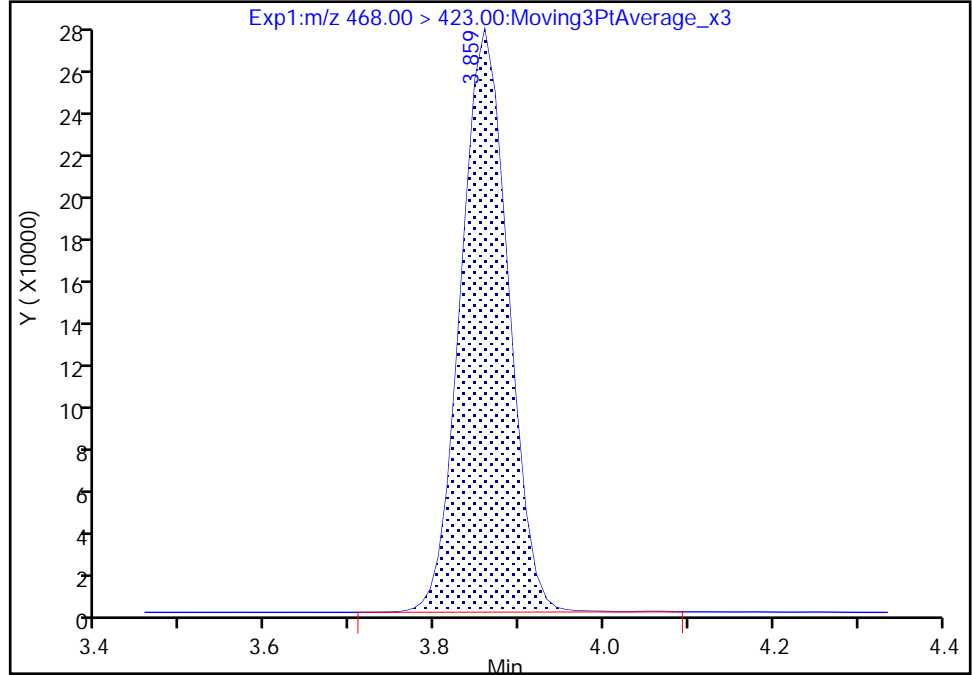
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

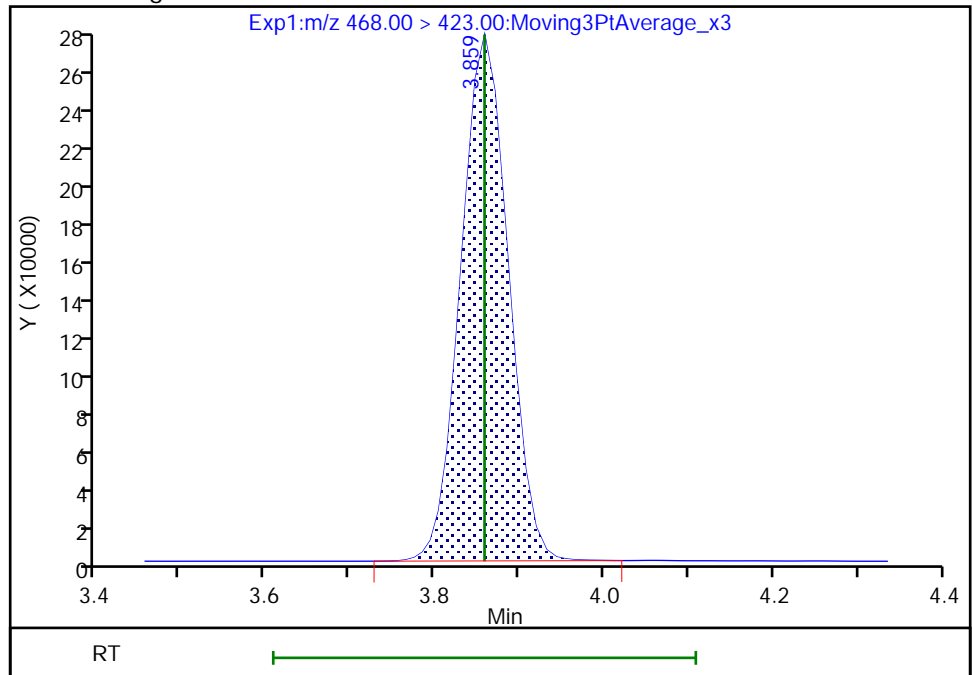
RT: 3.86
Area: 1068921
Amount: 1.074918
Amount Units: ng/ml

Processing Integration Results



RT: 3.86
Area: 1067168
Amount: 1.073156
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:08:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

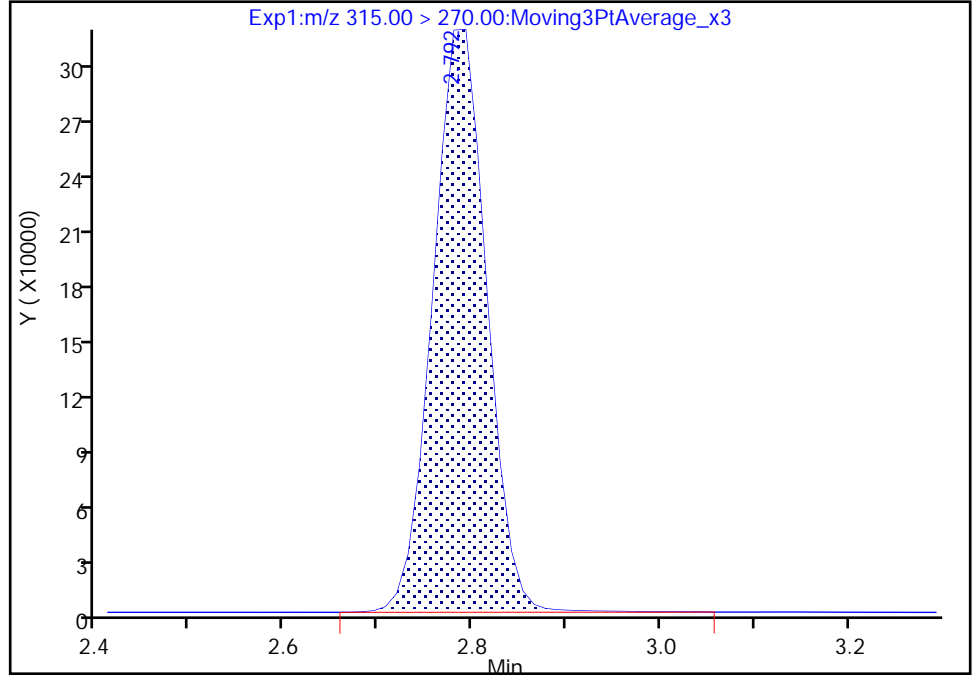
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 7 13C2 PFHxA, CAS: STL00993

Signal: 1

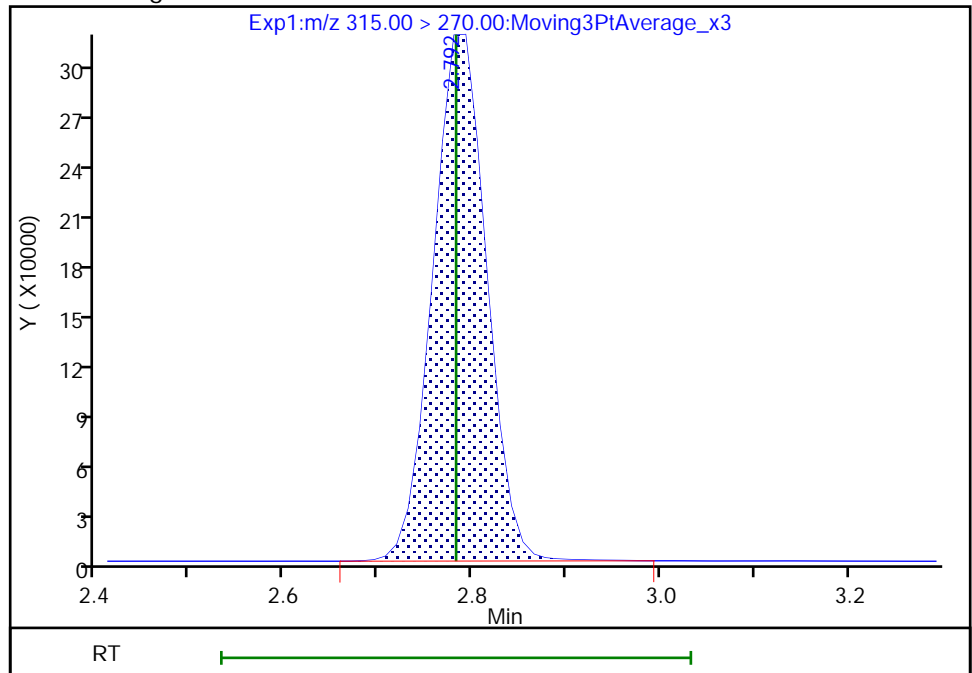
RT: 2.79
Area: 1257840
Amount: 1.179787
Amount Units: ng/ml

Processing Integration Results



RT: 2.79
Area: 1256014
Amount: 1.178075
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:08:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

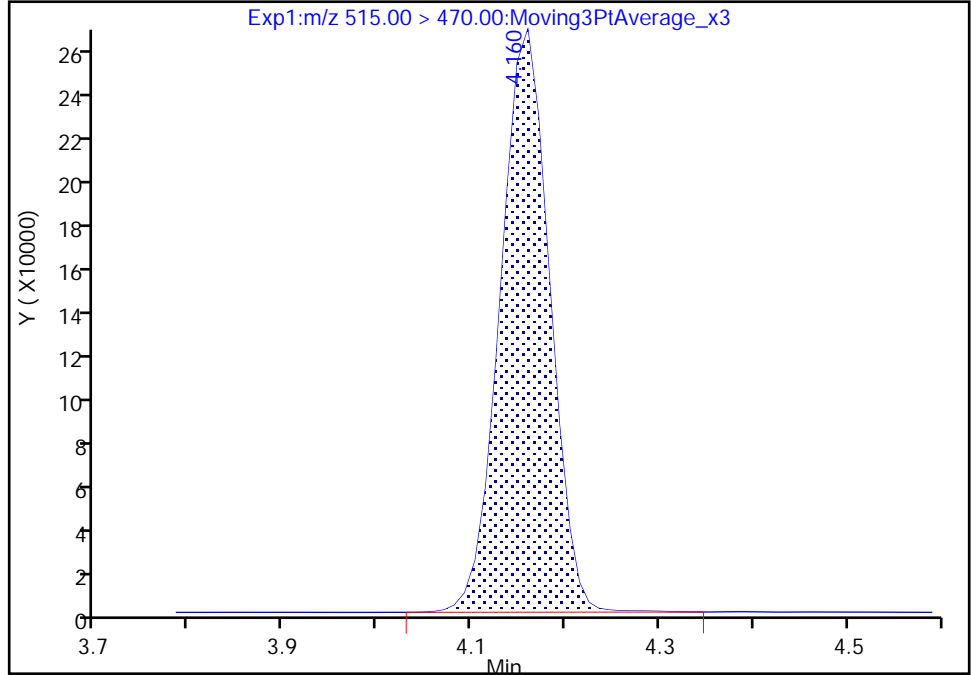
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

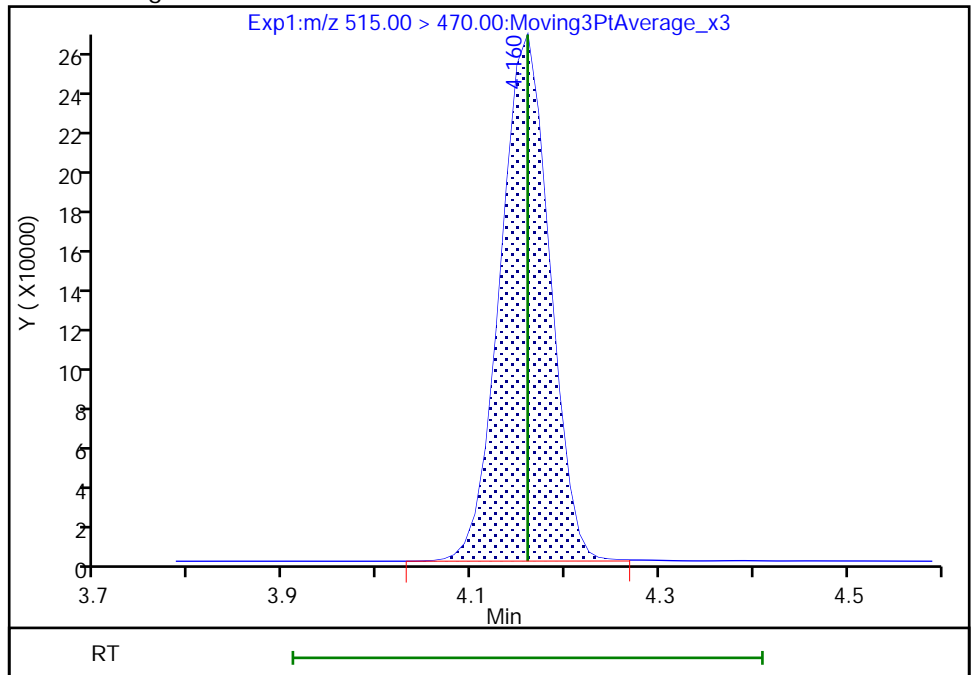
RT: 4.16
Area: 952873
Amount: 1.092680
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 951814
Amount: 1.091466
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:08:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

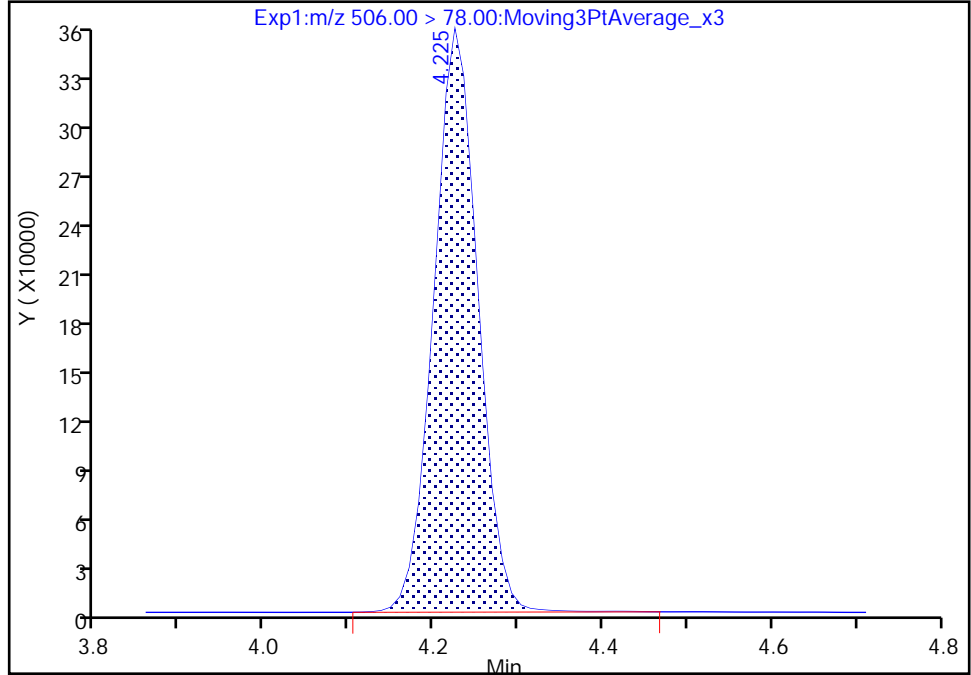
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

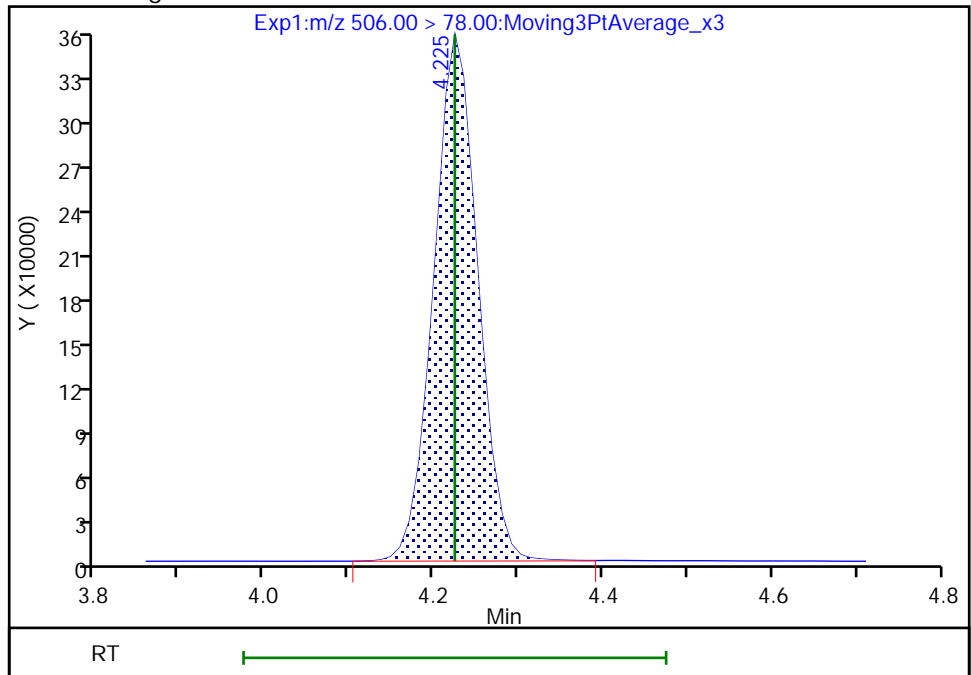
RT: 4.22
Area: 1262834
Amount: 1.026511
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 1262072
Amount: 1.025891
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:09:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

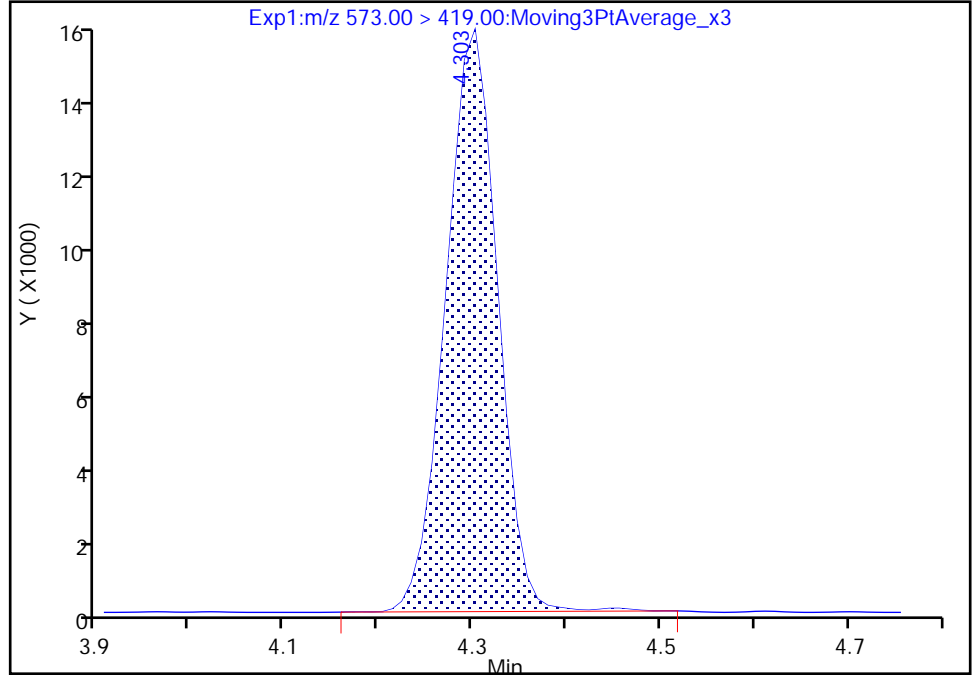
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

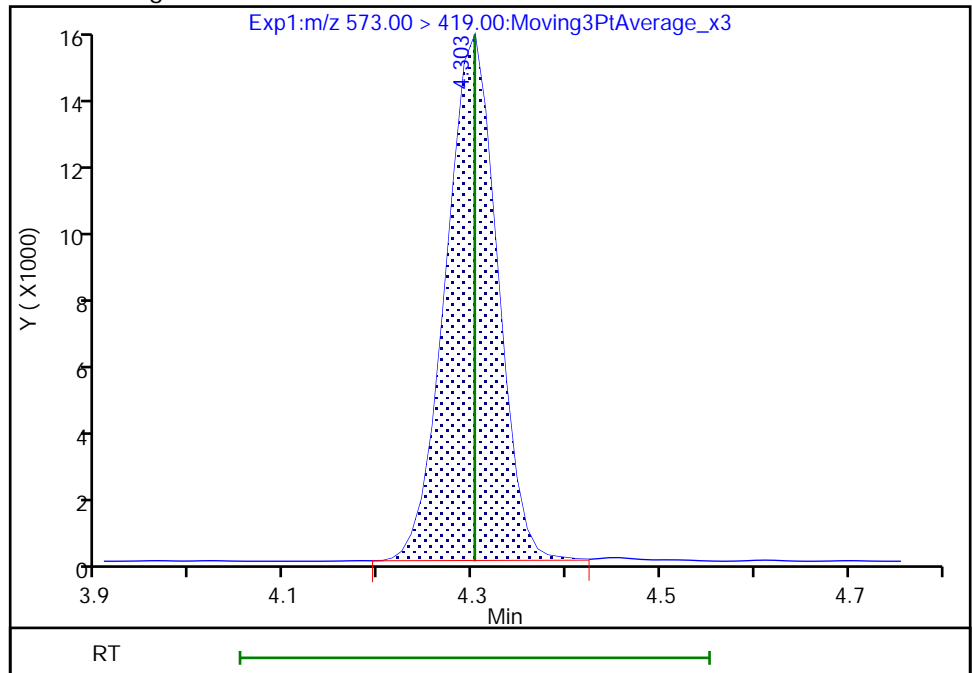
RT: 4.30
Area: 59963
Amount: 1.016464
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 59729
Amount: 1.012498
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:09:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

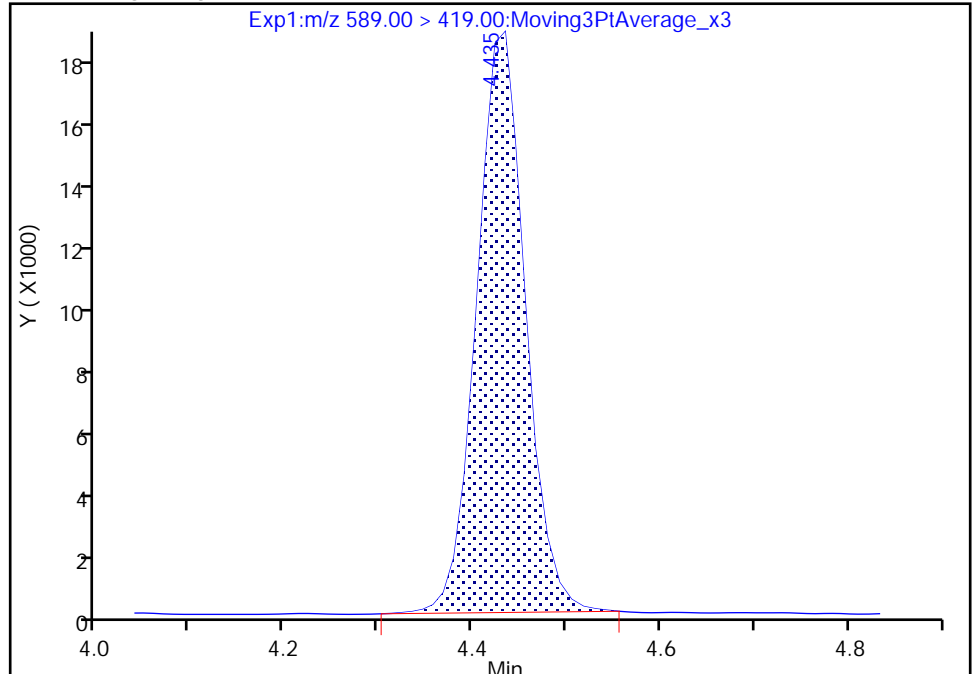
Data File:	\\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d				
Injection Date:	21-May-2021 23:26:42	Instrument ID:	LC812		
Lims ID:	200-58440-A-3-A	Lab Sample ID:	200-58440-3		
Client ID:	MW-25S-D				
Operator ID:	lc812tech	ALS Bottle#:	34	Worklist Smp#:	7
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector:	EXP1		

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

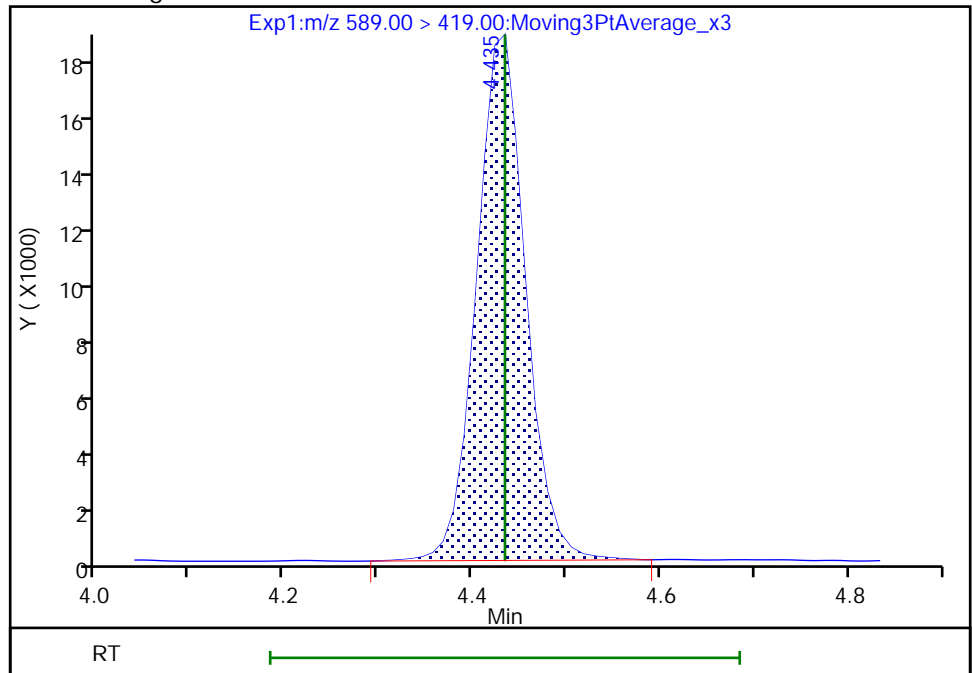
RT: 4.43
Area: 64972
Amount: 1.097595
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 65476
Amount: 1.106110
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:09:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

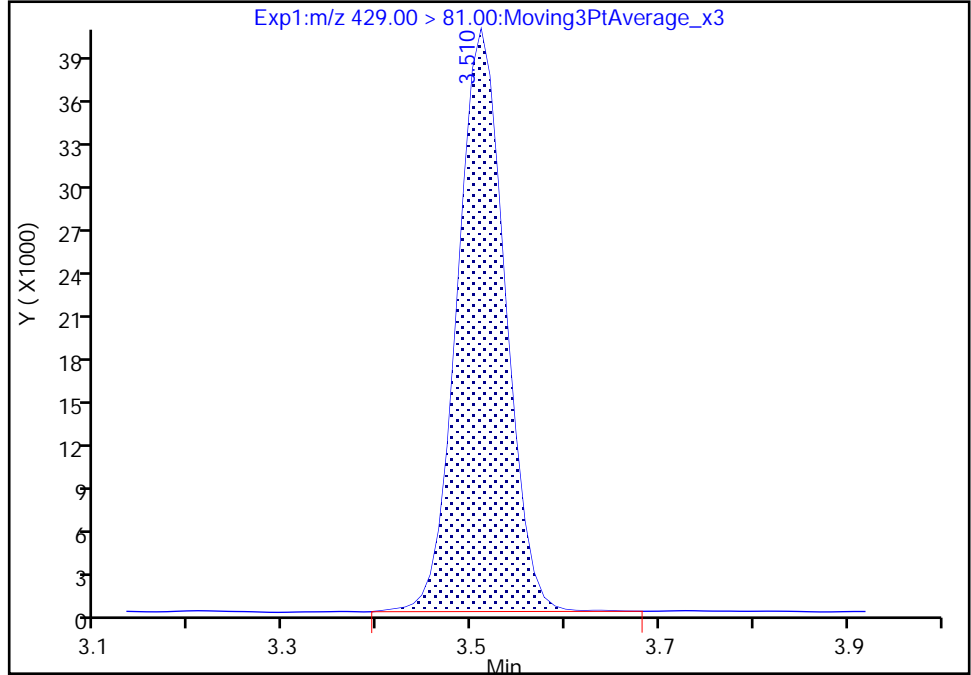
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 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

D 12 M2-6:2 FTS, CAS: STL02279
Signal: 1

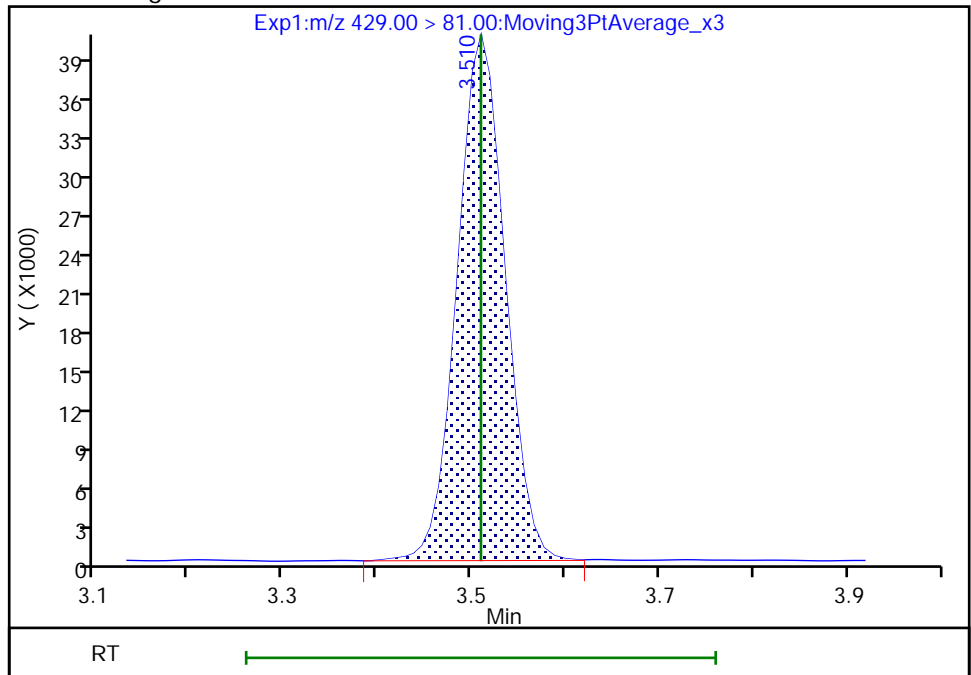
RT: 3.51
Area: 140825
Amount: 1.115667
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 140813
Amount: 1.115572
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:08:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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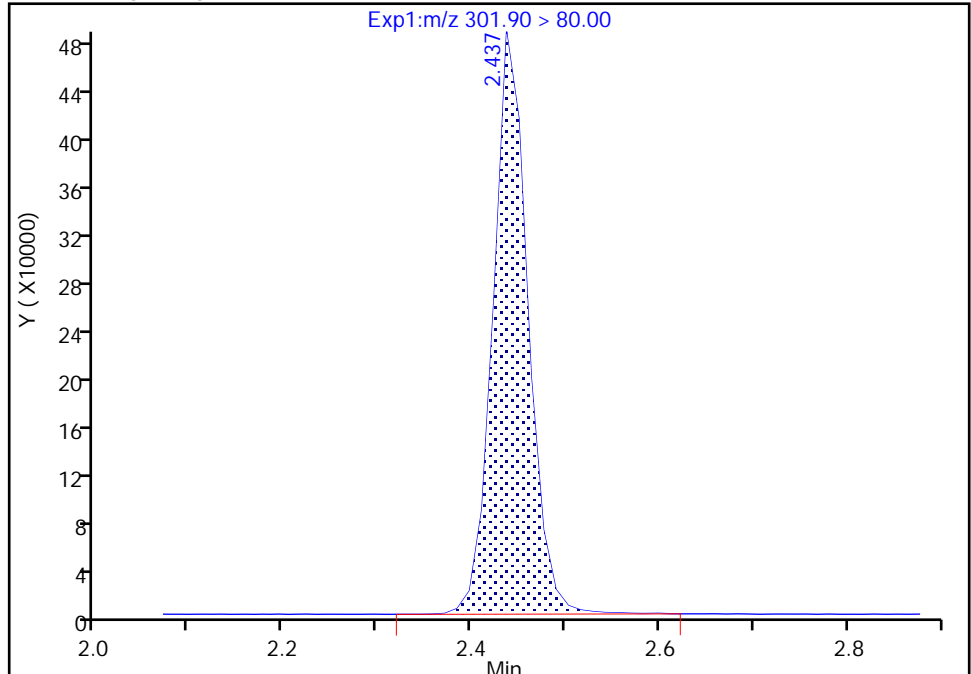
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C07.d
Injection Date: 21-May-2021 23:26:42 Instrument ID: LC812
Lims ID: 200-58440-A-3-A Lab Sample ID: 200-58440-3
Client ID: MW-25S-D
Operator ID: lc812tech ALS Bottle#: 34 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

D 47 13C3 PFBS, CAS: STL02337
Signal: 1

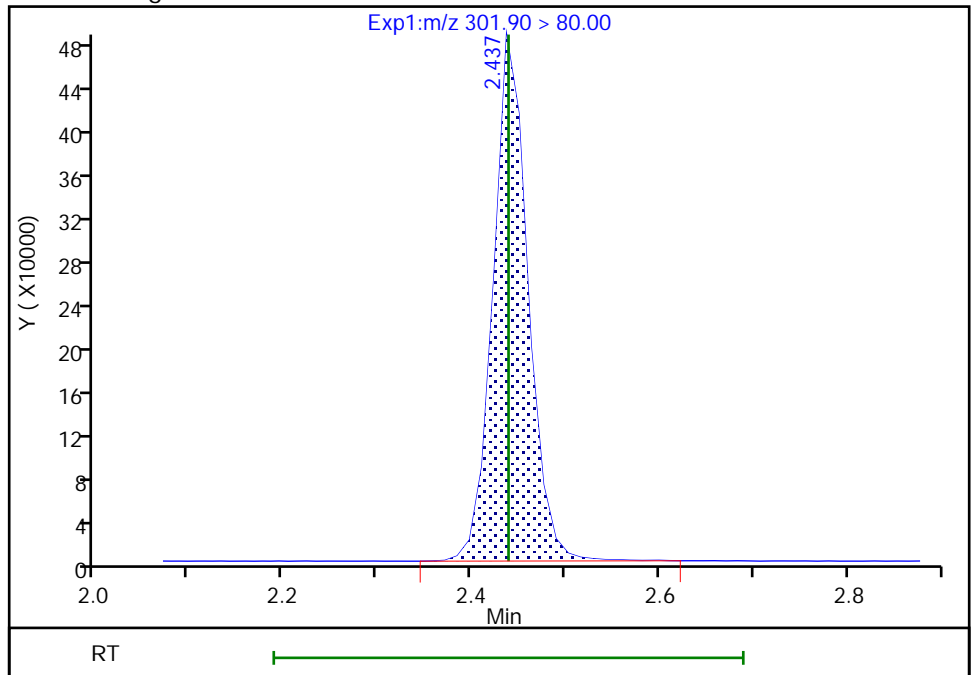
RT: 2.44
Area: 1247605
Amount: 1.016380
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 1247427
Amount: 1.016235
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:08:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: DGC-4S Lab Sample ID: 200-58440-4
 Matrix: Water Lab File ID: PA210521C08.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 12:25
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 291(mL) Date Analyzed: 05/21/2021 23:35
 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.: 167173 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.7	J	4.3	0.77
2706-90-3	Perfluoropentanoic acid (PFPeA)	1.4	J	1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	0.53	J	1.7	0.39
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.22	J I	1.7	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	0.53	J	1.7	0.36
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.24
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.26
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.30
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.33
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.54
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.92	J	1.7	0.21
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.26
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.28	J B	1.7	0.25
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.26
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.50
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.78
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.64
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.94
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.34

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: DGC-4S Lab Sample ID: 200-58440-4
 Matrix: Water Lab File ID: PA210521C08.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 12:25
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 291(mL) Date Analyzed: 05/21/2021 23:35
 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.: 167173 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	98		50-150
STL01892	13C4 PFHpA	96		50-150
STL00990	13C4 PFOA	101		50-150
STL00991	13C4 PFOS	89		50-150
STL00995	13C5 PFNA	95		50-150
STL00992	13C4 PFBA	89		25-150
STL00993	13C2 PFHxA	99		50-150
STL00996	13C2 PFDA	89		50-150
STL00997	13C2 PFUnA	82		50-150
STL00998	13C2 PFDoA	72		50-150
STL01056	13C8 FOSA	80		25-150
STL01893	13C5 PFPeA	96		25-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	86		50-150
STL02117	d5-NEtFOSAA	83		50-150
STL02279	M2-6:2 FTS	94		25-150
STL02280	M2-8:2 FTS	99		25-150
STL02337	13C3 PFBS	94		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
 Lims ID: 200-58440-A-4-A
 Client ID: DGC-4S
 Sample Type: Client
 Inject. Date: 21-May-2021 23:35:00 ALS Bottle#: 35 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 200-58440-A-4-A
 Misc. Info.: 200-0046090-008 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 10:31:19
 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	2.091	2.091	0.0	0.596	1440620	1.12	89.5	9489	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.100	-0.009	1.000	85964	0.0798		14.9		M
D 3 13C5 PFPeA	267.90 > 223.00	2.413	2.426	-0.013	0.687	1119700	1.20	95.7	2381	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.413	2.426	-0.013	1.000	37757	0.0417		2.1		
D 47 13C3 PFBS	301.90 > 80.00	2.439	2.439	0.0	0.695	1281370	1.10	94.2	157881	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.439	2.439	0.0	1.000	30498	0.0269	Target=2.19	17.8		
298.90 > 99.00	2.439	2.439	0.0	1.000	15558		1.96(1.09-3.28)	7.1		
D 7 13C2 PFHxA	315.00 > 270.00	2.782	2.782	0.0	0.793	1252055	1.23	98.6	4126	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.782	2.782	0.0	1.000	15667	0.0155	Target=12.12	3.1		M
313.00 > 119.00	2.770	2.782	-0.012	0.996	1824		8.59(6.06-18.18)	3.6		M
D 11 18O2 PFHxS	403.00 > 84.00	3.143	3.154	-0.011	0.895	1051807	1.16	98.0	2633	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.154	3.154	0.0	1.003	6113	0.006199	Target=4.23	15.4		M
399.00 > 99.00	3.143	3.154	-0.011	1.000	1996		3.06(2.12-6.35)	2.6		M
D 9 13C4 PFHpA	367.00 > 322.00	3.154	3.154	0.0	0.898	1223614	1.21	96.4	3695	
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.143	3.164	-0.021	0.997	6294	0.006375	Target=3.49	1.8		RM
363.00 > 169.00	3.154	3.164	-0.010	1.000	840		7.49(1.75-5.24)	2.1		M

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	0.913	173	0.000238	Target=6.21	1.4		RM
449.00 > 99.00	3.483	3.510	-0.027	0.911	210		0.82(3.10-9.31)	1.2		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.501	3.510	-0.009	0.997	134903	1.12		94.4	445	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.528	3.510	0.018	1.008	96	0.000942		2.5		M
D 14 13C4 PFOA										
417.00 > 372.00	3.510	3.519	-0.009	1.000	1293431	1.26		101	3481	
* 62 13C2 PFOA										
415.00 > 370.00	3.510	3.519	-0.009		1284392	1.25			233	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.510	3.519	-0.009	1.000	16514	0.0155	Target=2.53	6.8		M
413.00 > 169.00	3.510	3.519	-0.009	1.000	7305		2.26(1.27-3.80)	16.3		M
D 18 13C4 PFOS										M
503.00 > 80.00	3.824	3.836	-0.012	1.090	697928	1.07		89.1	2520	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.003	5064	0.008054	Target=6.09	3.6		M
499.00 > 99.00	3.824	3.836	-0.012	1.000	1527		3.32(3.04-9.13)	2.2		M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.836	3.858	-0.022	0.997	1334	0.001534	Target=6.34	0.6		M
463.00 > 169.00	3.836	3.858	-0.022	0.997	245		5.44(3.17-9.51)	2.4		M
D 19 13C5 PFNA										M
468.00 > 423.00	3.847	3.858	-0.011	1.096	1128503	1.19		95.3	3746	M
D 23 13C2 PFDA										M
515.00 > 470.00	4.148	4.160	-0.012	1.182	920362	1.11		88.6	2179	M
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.148	4.160	-0.012	1.000	1069	0.001387	Target=7.79	1.3		RM
513.00 > 169.00	4.171	4.160	0.011	1.005	39		27.41(3.90-11.69)	0.4		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.171	-0.011	1.185	146861	1.19		99.4	809	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.137	4.171	-0.034	0.995	46	0.000748		1.5		M
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.225	-0.011	1.201	1165123	0.99		79.5	2476	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.246	4.225	0.021	1.007	766	0.000840		3.7		M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.291	4.302	-0.011	1.223	60495	1.08		86.1	989	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.335	4.302	0.033	1.010	43	0.001011		0.5		M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.402	4.391	0.011	1.151	41	0.000111	Target=2.87	1.1		RM
599.00 > 99.00	4.380	4.391	-0.011	1.145	158		0.26(1.44-4.31)	2.1		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.424	-0.011	1.257	685436	1.03		82.3	3179	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.434	-0.010	1.260	58774	1.04		83.4	582	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.413	4.434	-0.021	0.998	39	-0.0100			0.8	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.643	4.653	-0.010	1.323	628908	0.9017		72.1	2684	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.002	1079	0.002139	Target=5.94		0.6	RM
613.00 > 169.00	4.643	4.653	-0.010	1.000	87		12.40(2.97-8.92)		2.4	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.877	4.867	0.010	1.050	121	0.000297	Target=3.97		0.2	M
663.00 > 169.00	4.877	4.867	0.010	1.050	21		5.76(1.99-5.96)		0.5	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.063	-0.010	1.440	491049	0.9623		77.0	3066	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.063	-0.010	1.000	206	0.002564	Target=1.01		6.0	RM
713.00 > 219.00	5.044	5.063	-0.019	0.998	88		2.34(0.51-1.52)		2.8	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d

Injection Date: 21-May-2021 23:35:00

Instrument ID: LC812

Lims ID: 200-58440-A-4-A

Lab Sample ID: 200-58440-4

Client ID: DGC-4S

Operator ID: lc812tech

ALS Bottle#: 35

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

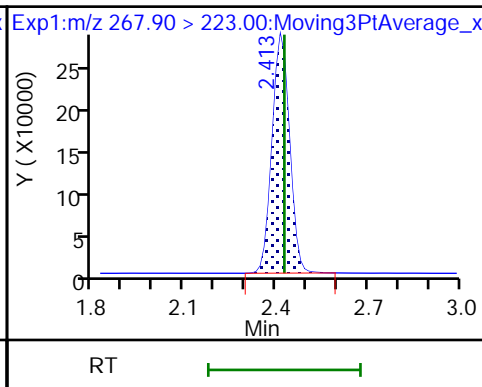
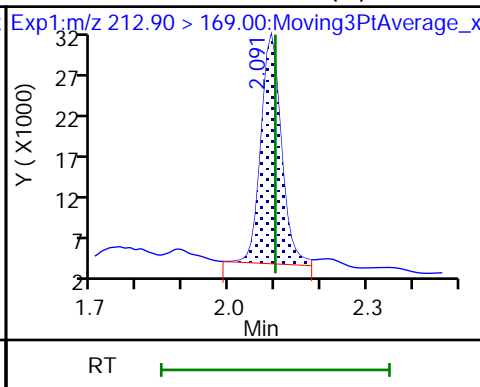
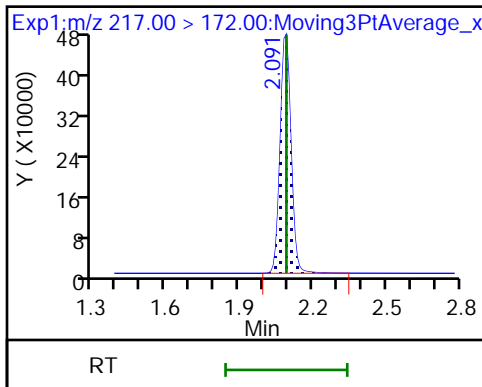
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

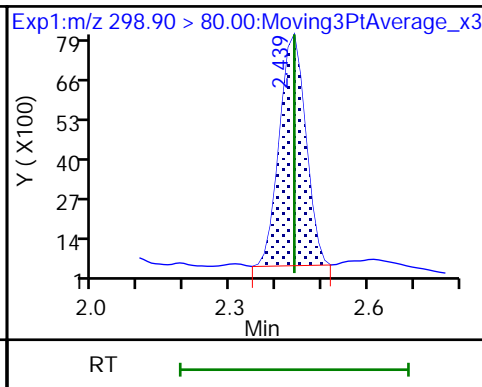
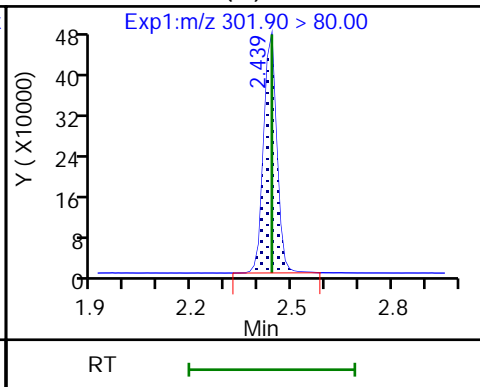
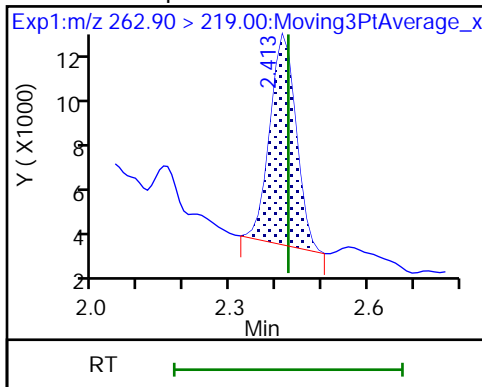
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

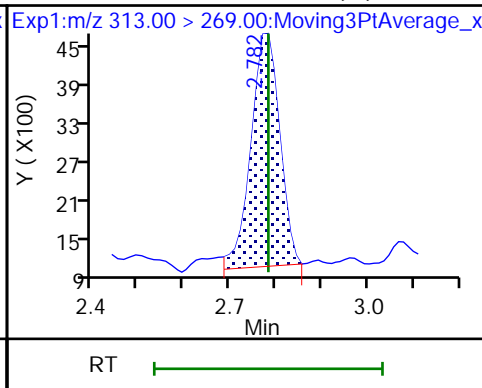
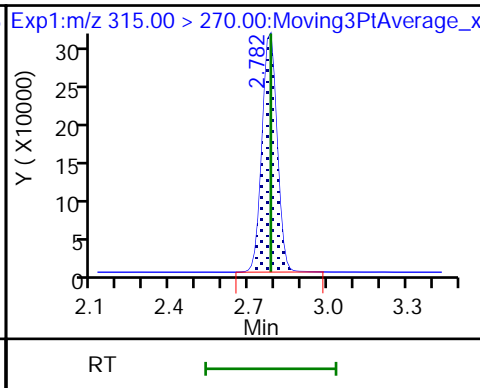
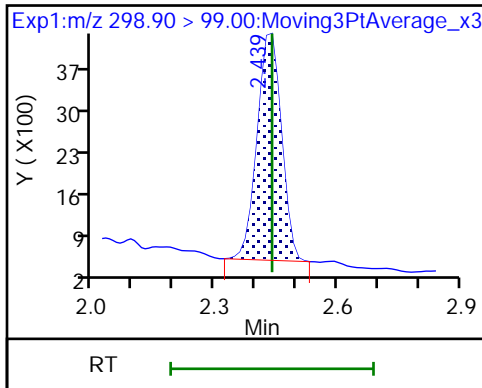
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

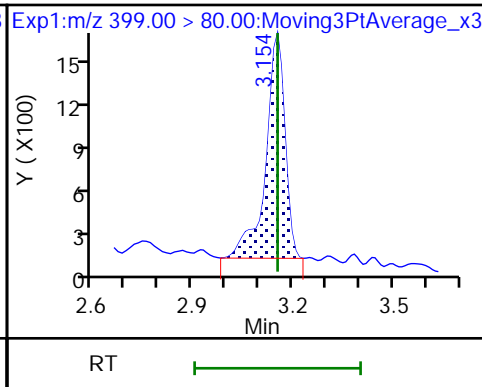
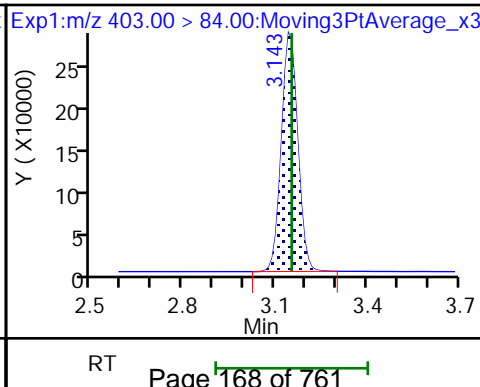
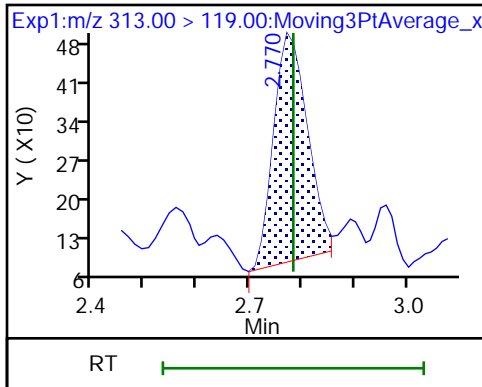
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

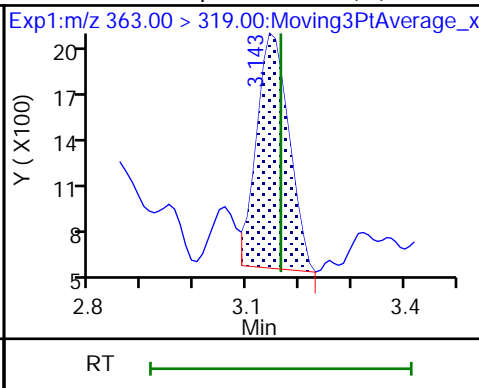
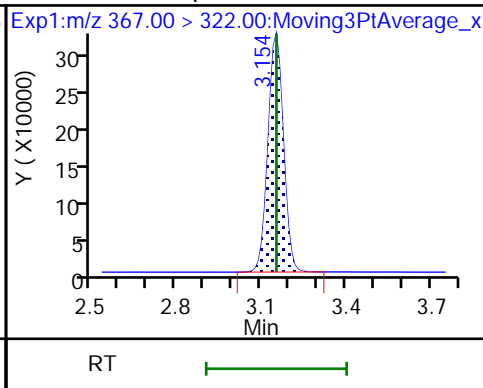
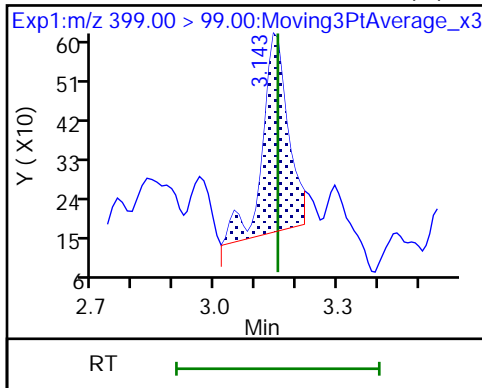
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

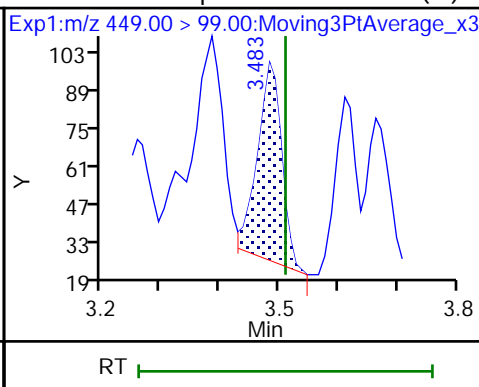
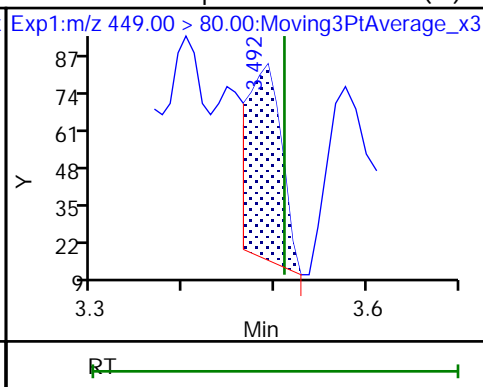
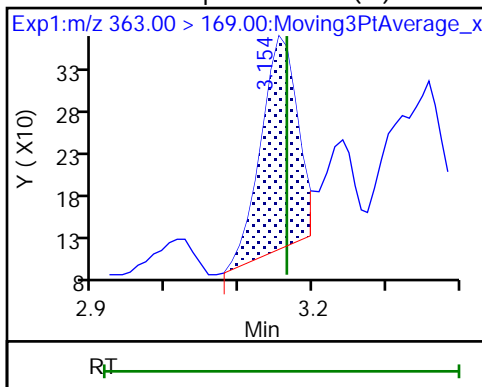
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (M)

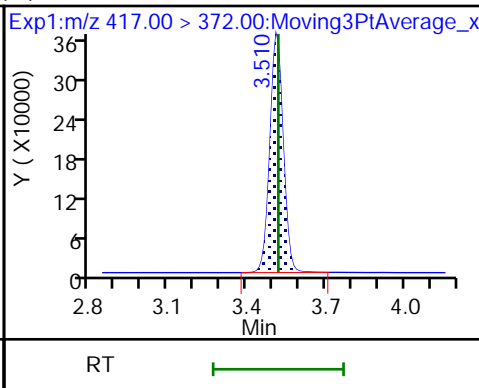
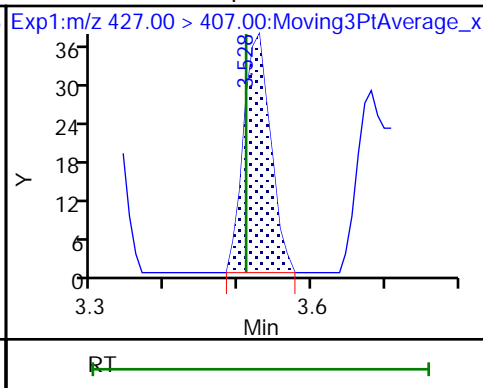
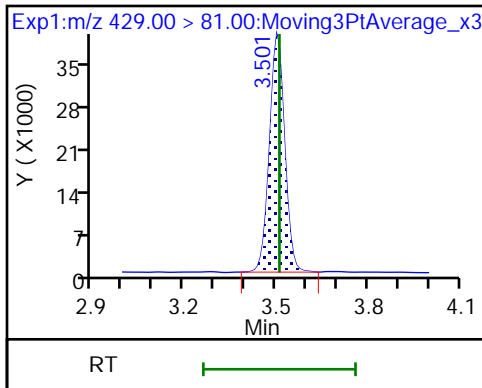
16 Perfluoroheptanesulfonic acid (M)



D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M)

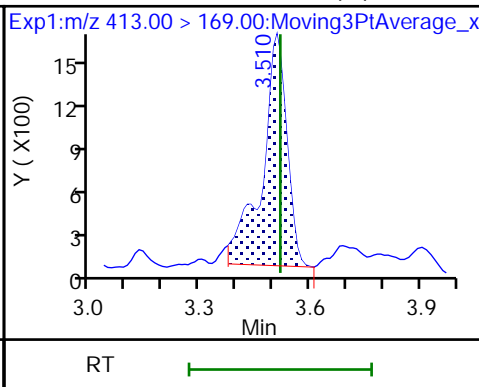
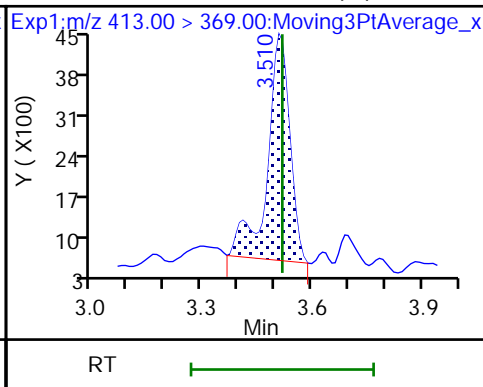
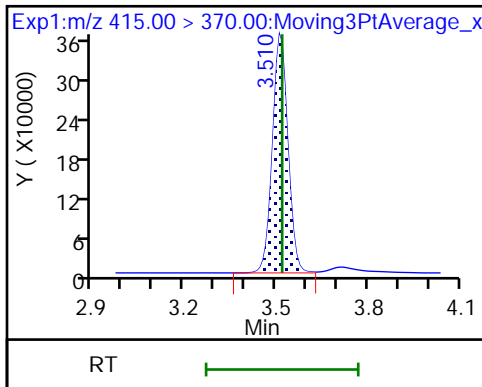
14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

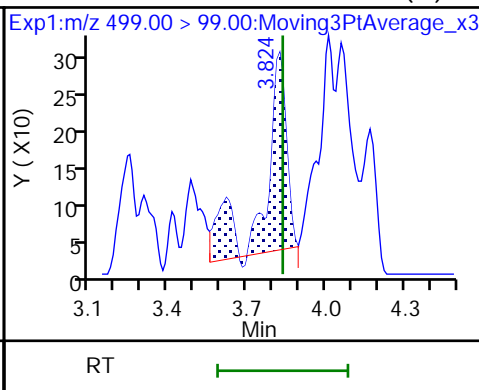
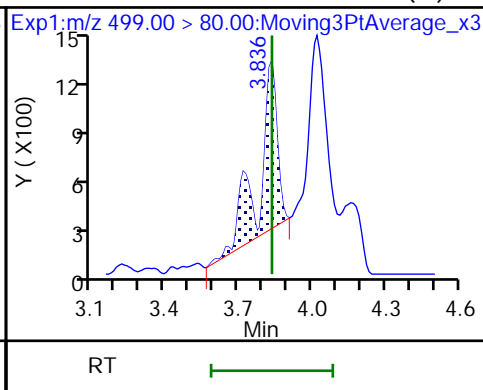
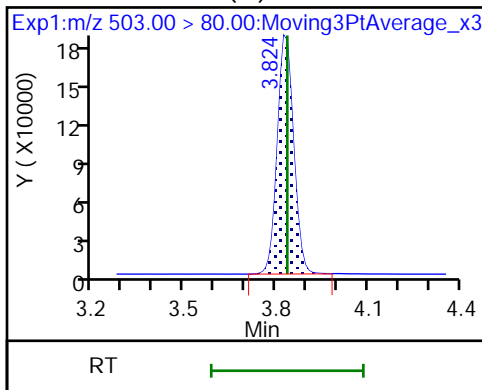
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS (M)

17 Perfluorooctanesulfonic acid (M)

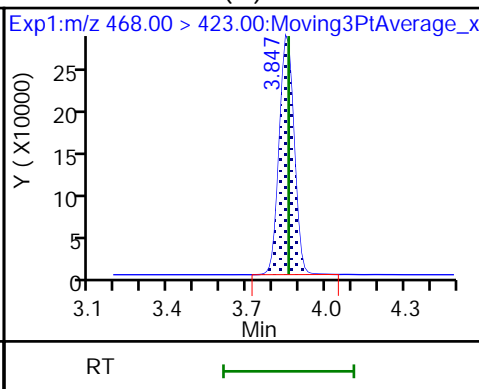
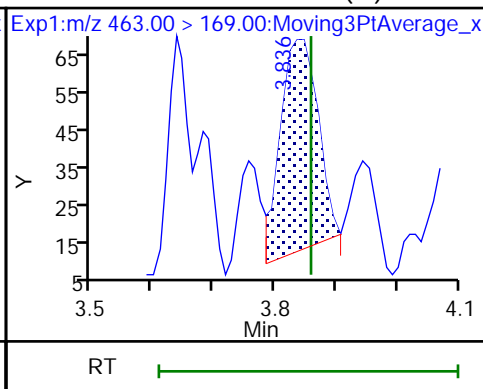
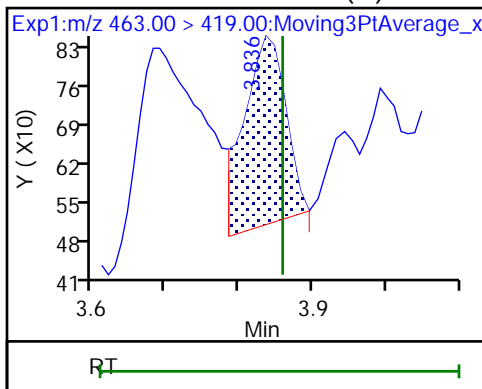
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

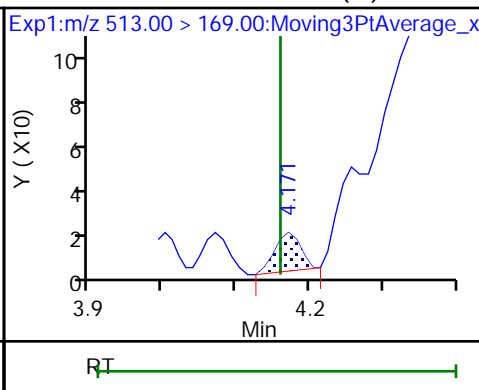
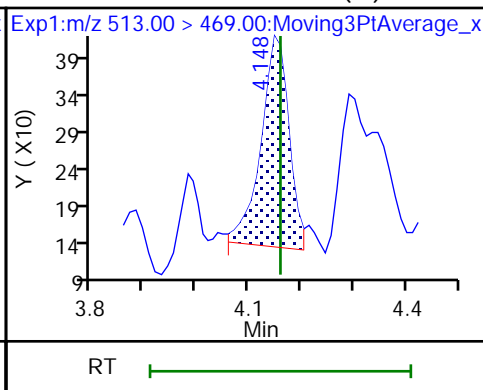
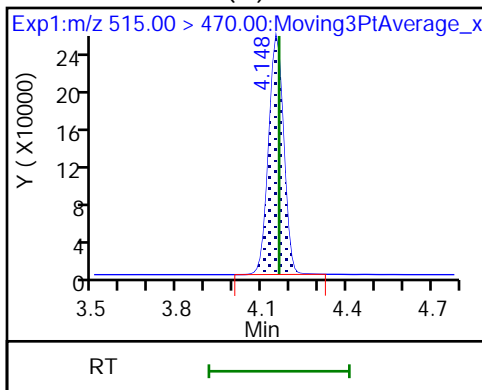
D 19 13C5 PFNA (M)



D 23 13C2 PFDA (M)

24 Perfluorodecanoic acid (M)

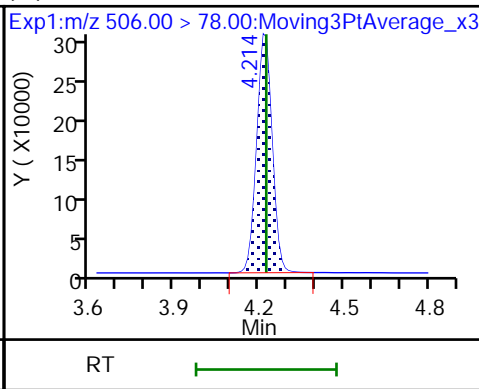
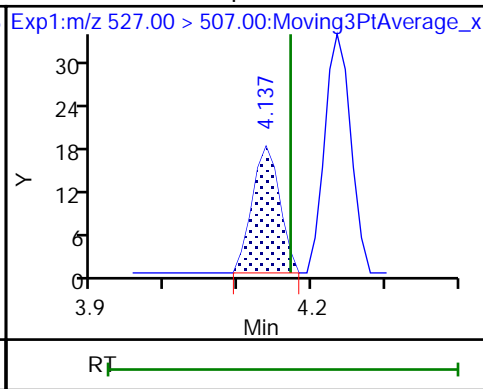
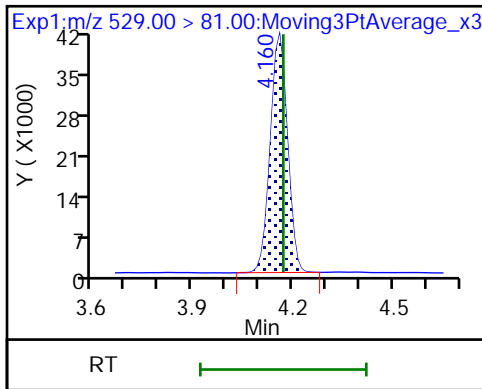
24 Perfluorodecanoic acid (M)

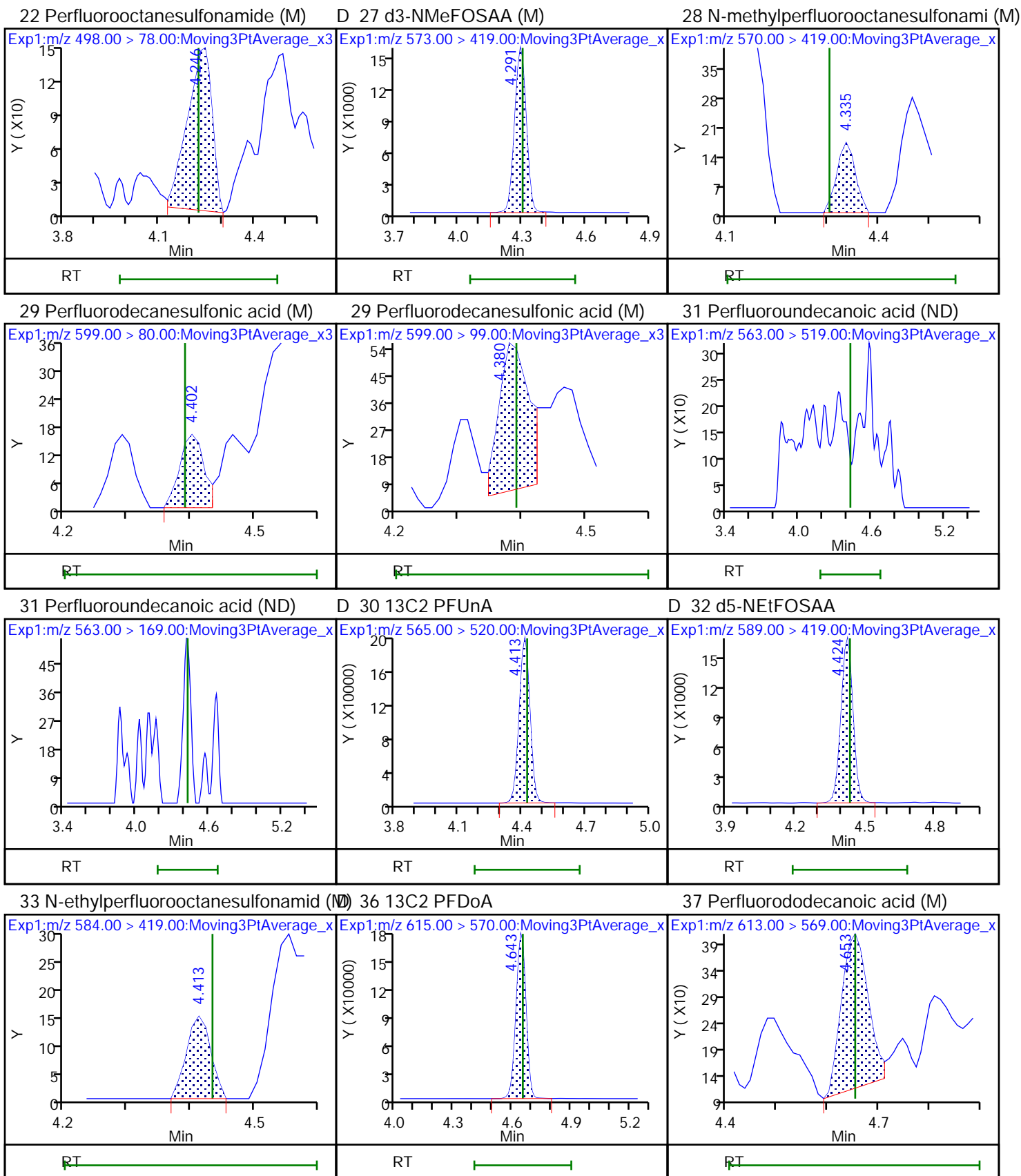


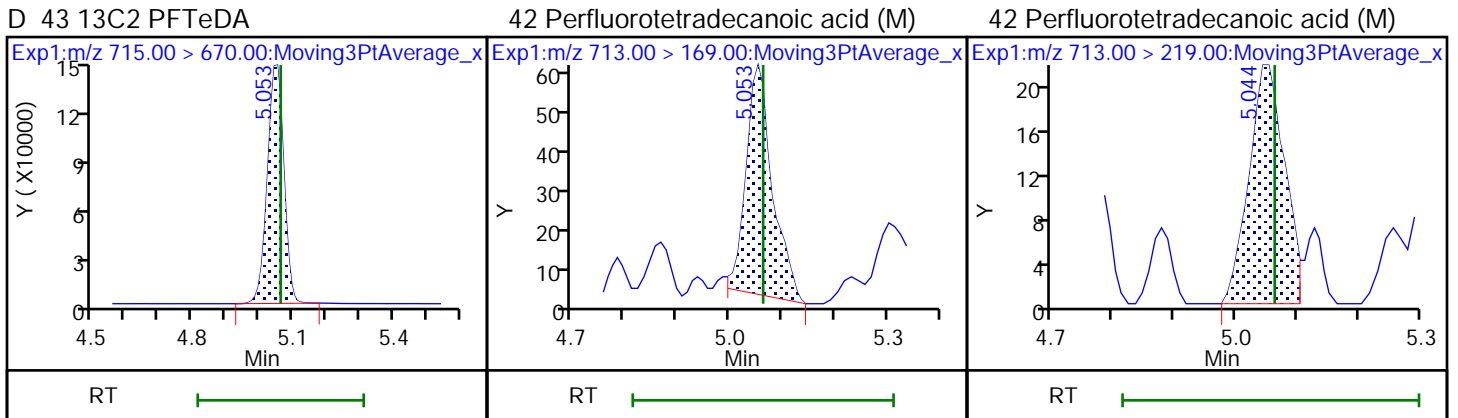
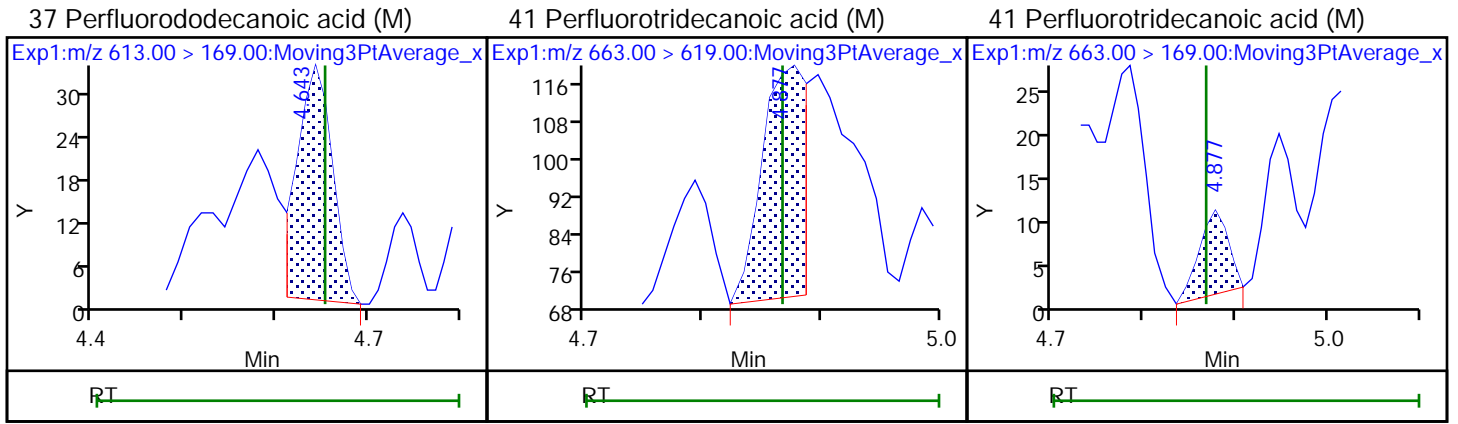
D 26 M2-8:2 FTS

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

D 21 13C8 FOSA







Eurofins TestAmerica, Burlington

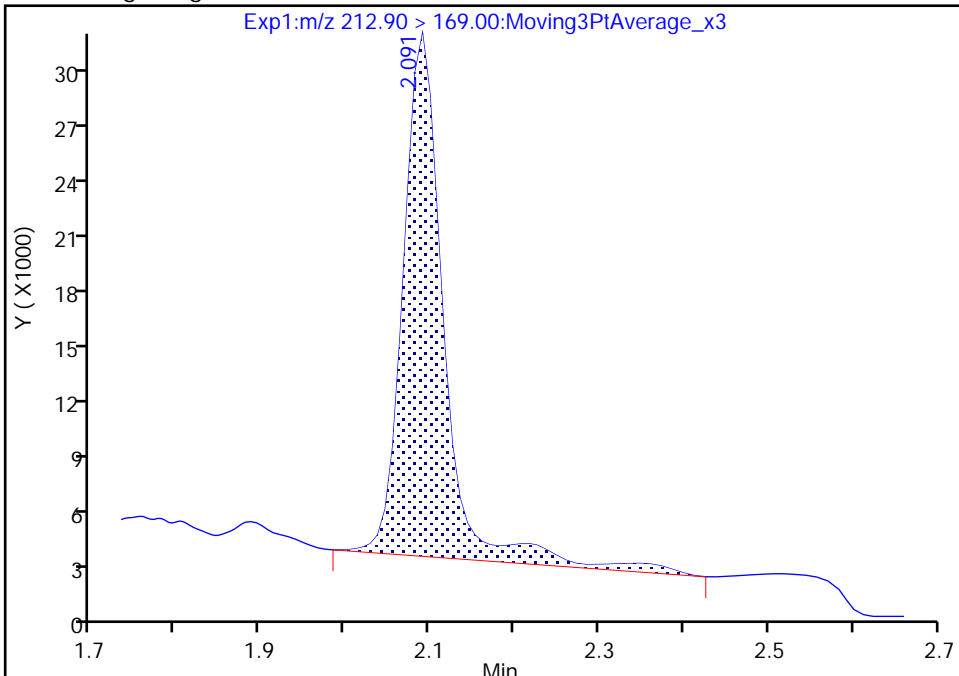
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

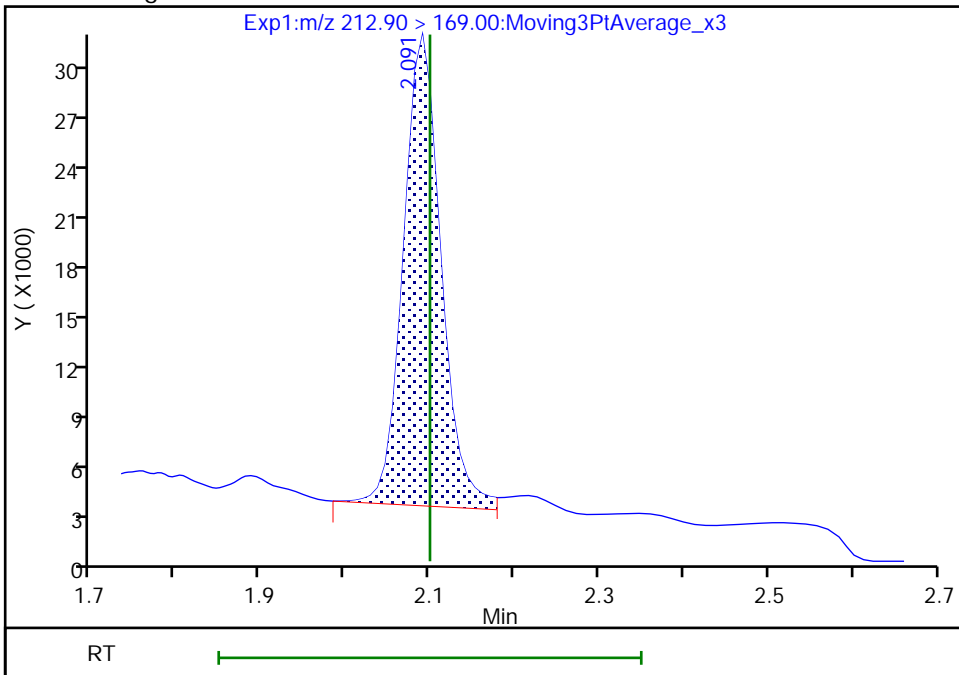
RT: 2.09
Area: 93652
Amount: 0.086919
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 85964
Amount: 0.079783
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:24:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

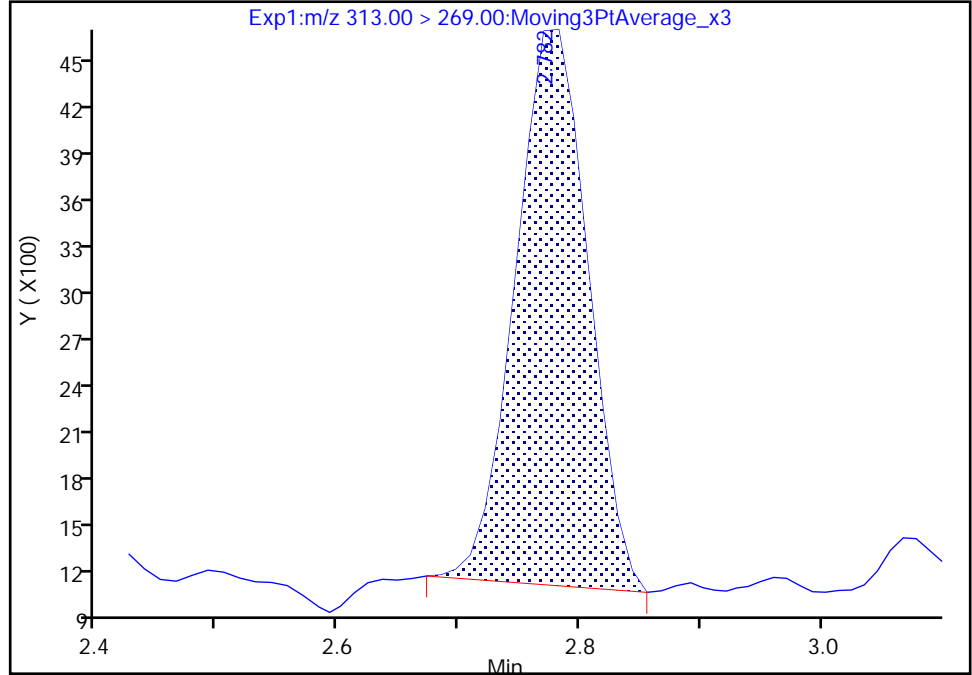
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

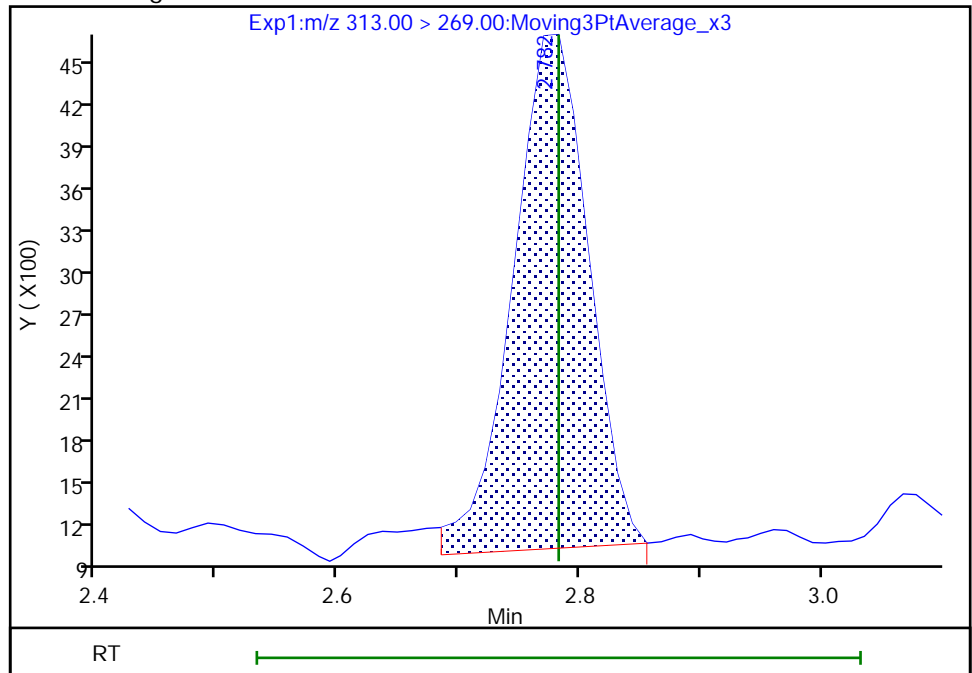
RT: 2.78
Area: 14757
Amount: 0.014556
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 15667
Amount: 0.015454
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:24:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

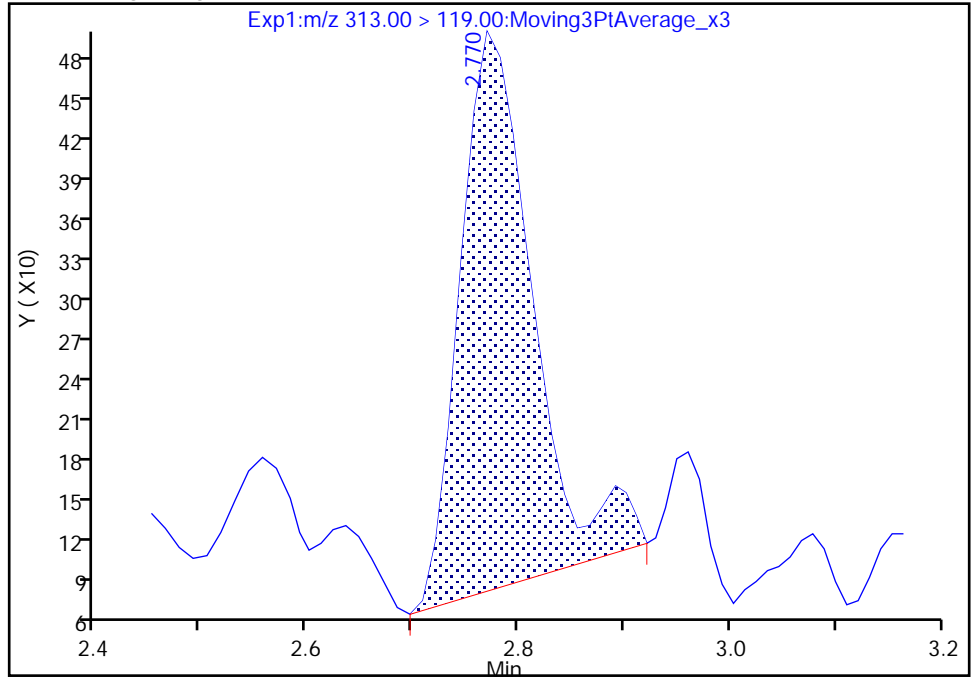
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

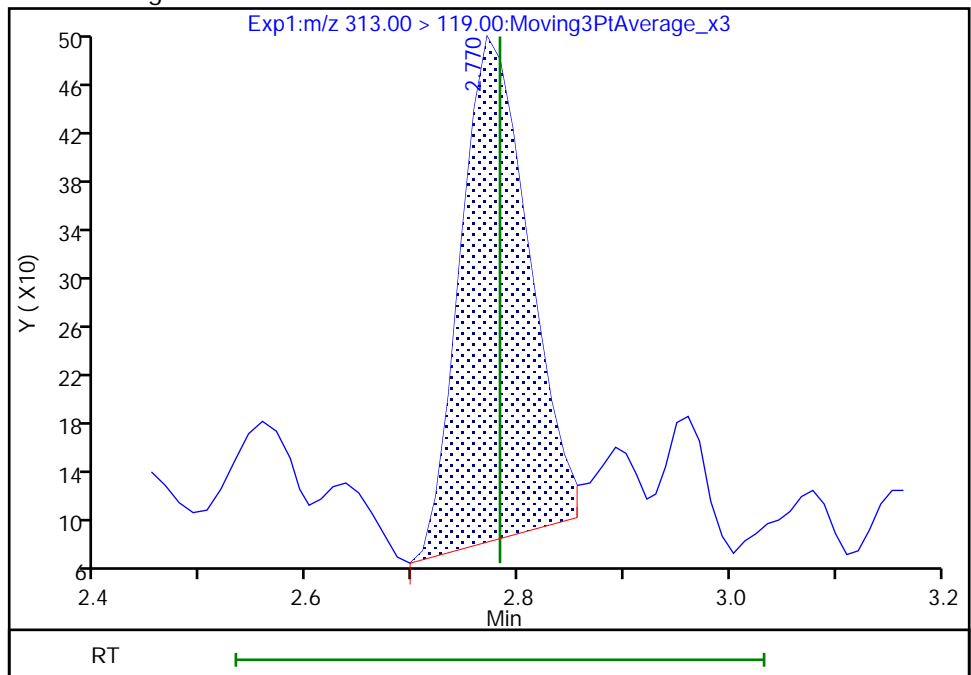
RT: 2.77
Area: 1951
Amount: 0.014556
Amount Units: ng/ml

Processing Integration Results



RT: 2.77
Area: 1824
Amount: 0.015454
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 10:24:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

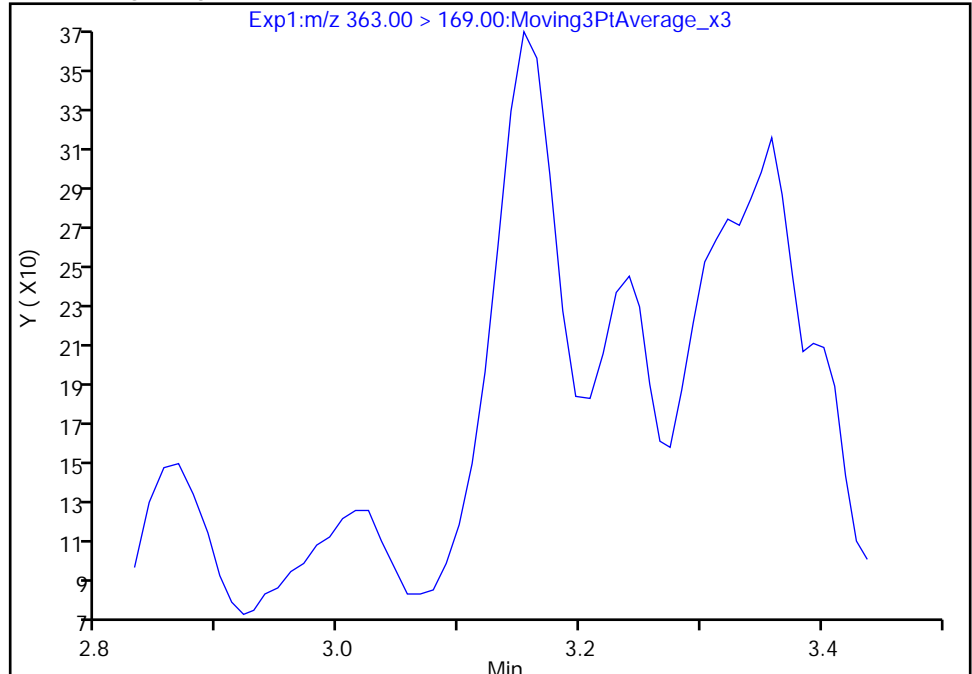
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

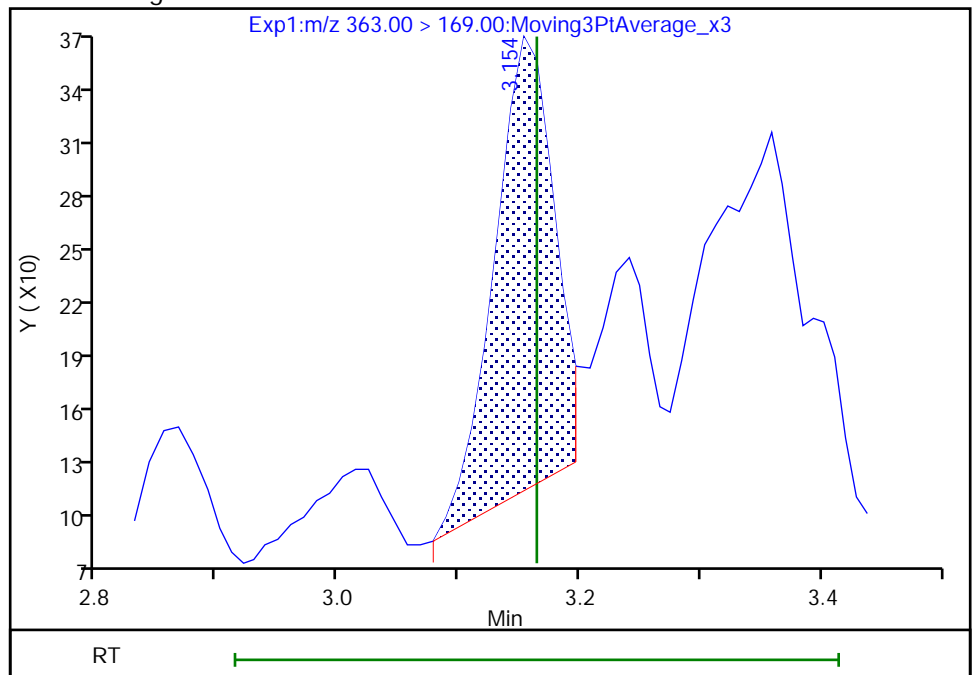
Not Detected
Expected RT: 3.16

Processing Integration Results



Manual Integration Results

RT: 3.15
Area: 840
Amount: 0.006375
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:25:07
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

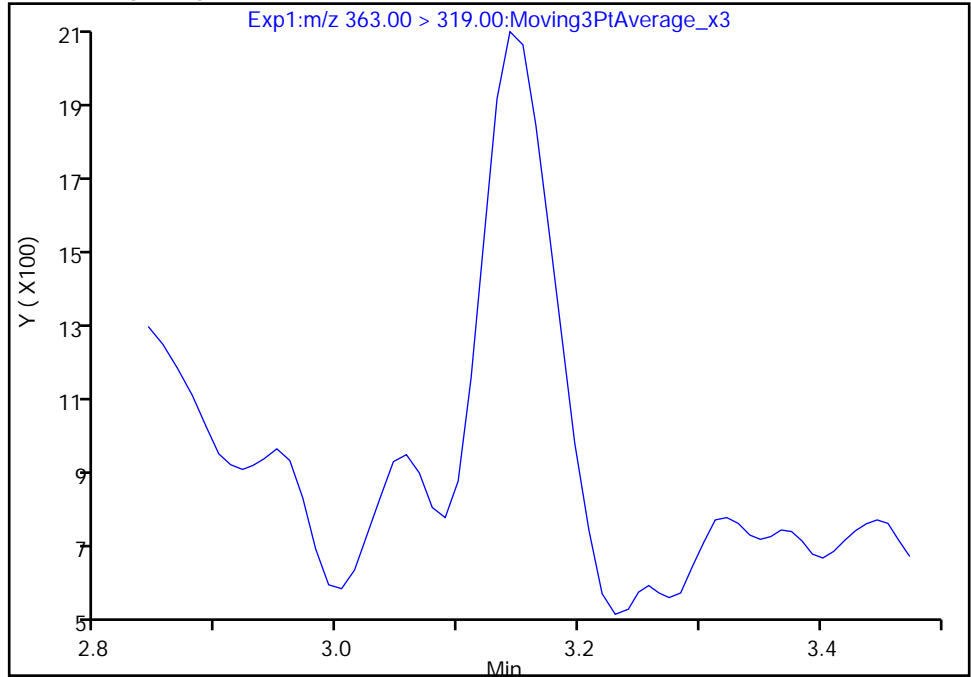
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

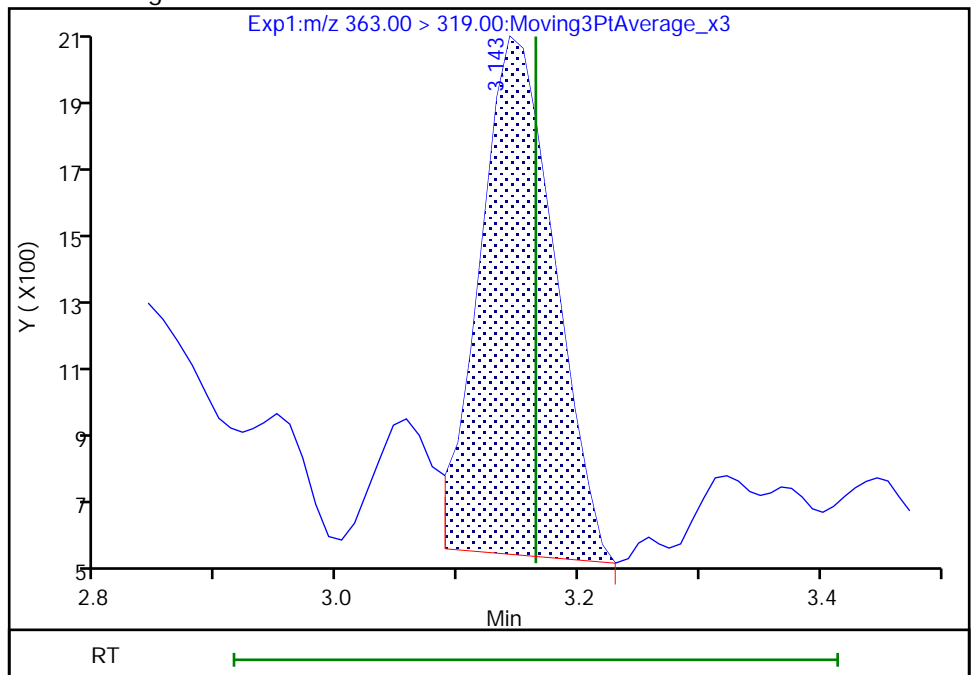
Not Detected
Expected RT: 3.16

Processing Integration Results



RT: 3.14
Area: 6294
Amount: 0.006375
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 10:25:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

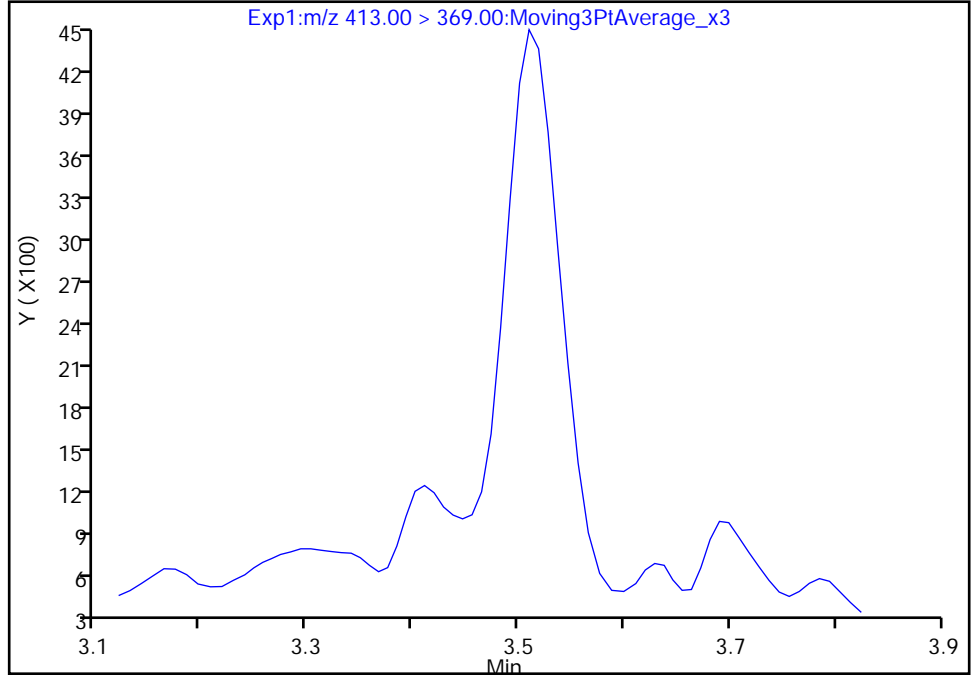
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

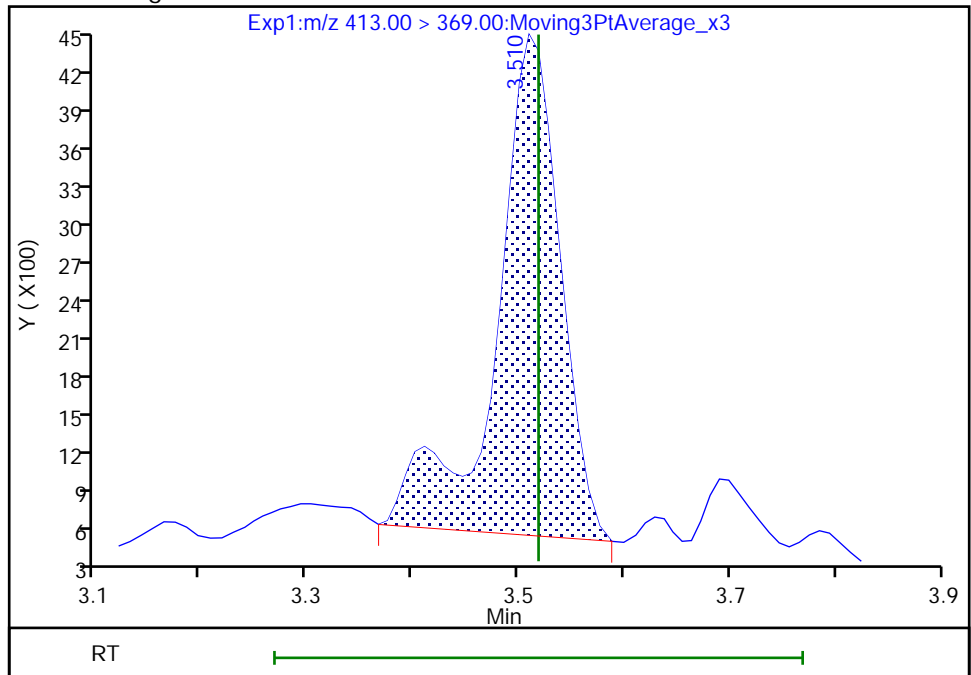
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 16514
Amount: 0.015537
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:26:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

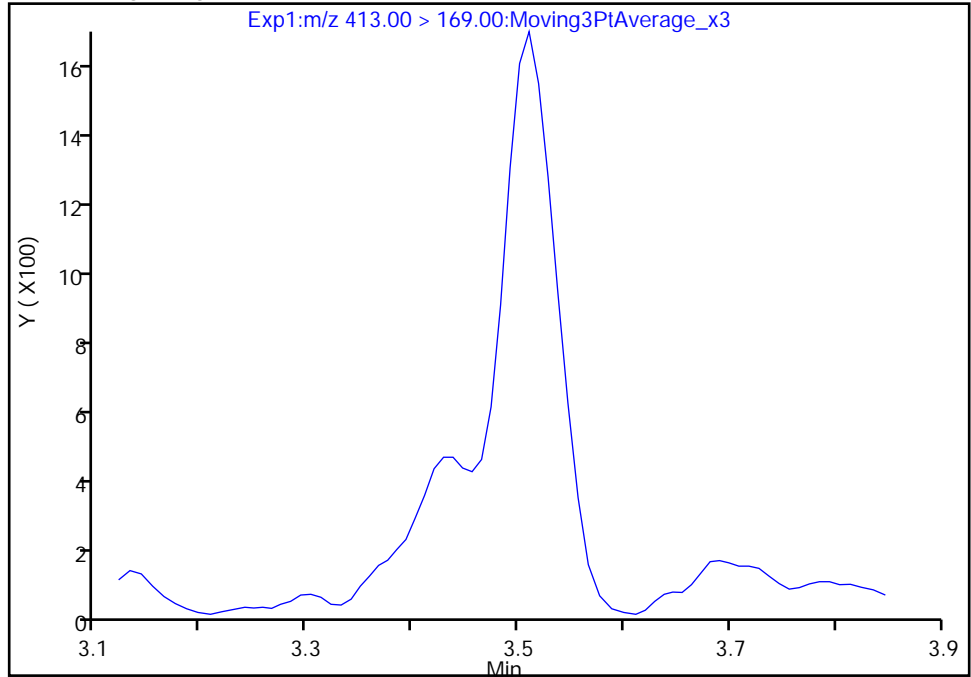
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
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Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

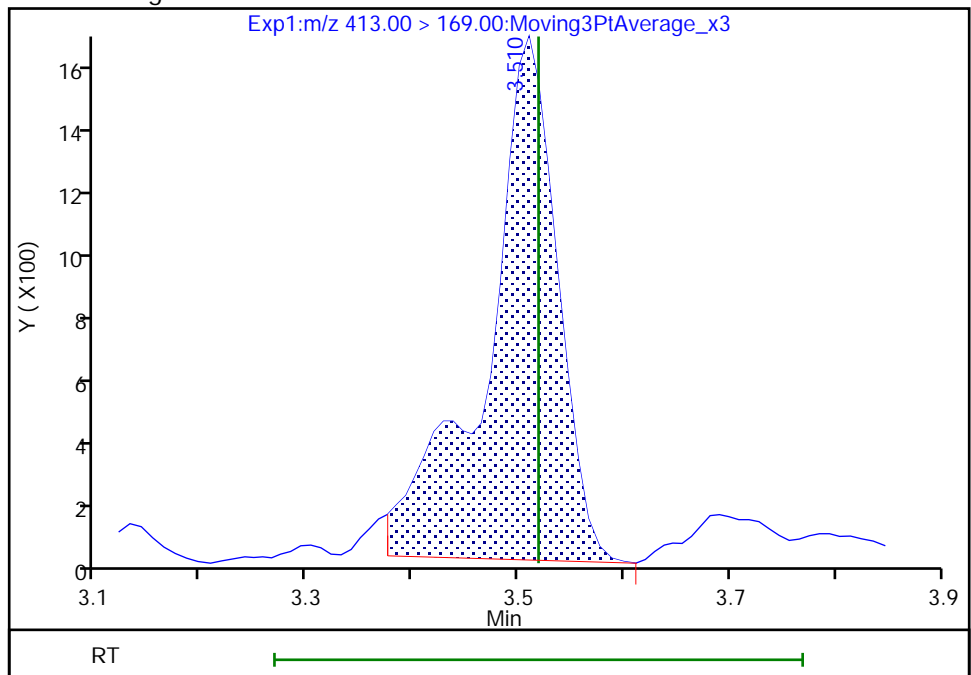
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 7305
Amount: 0.015537
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:26:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

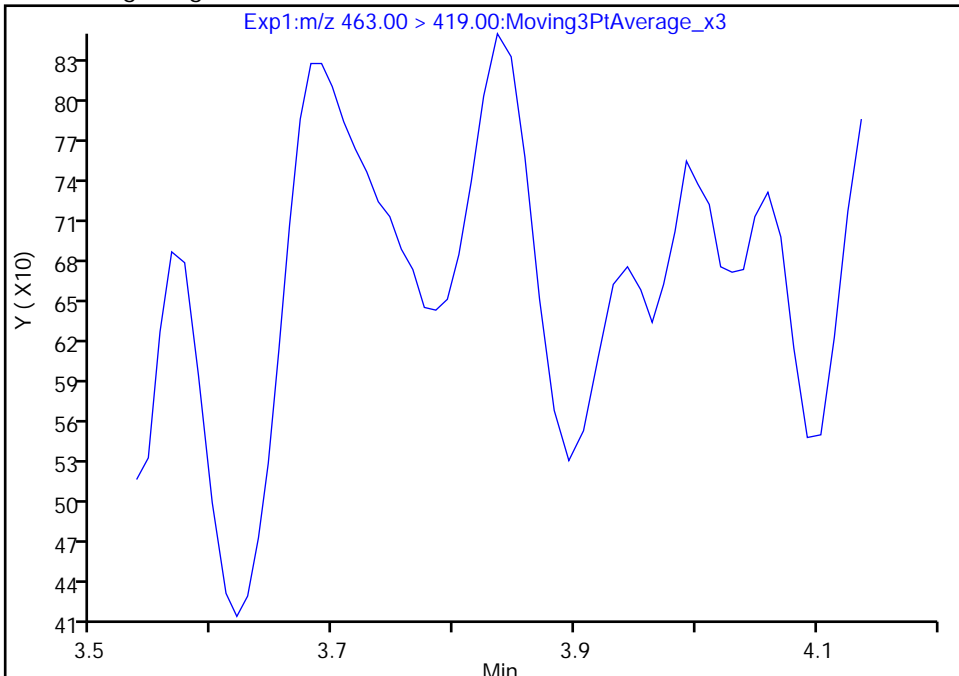
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

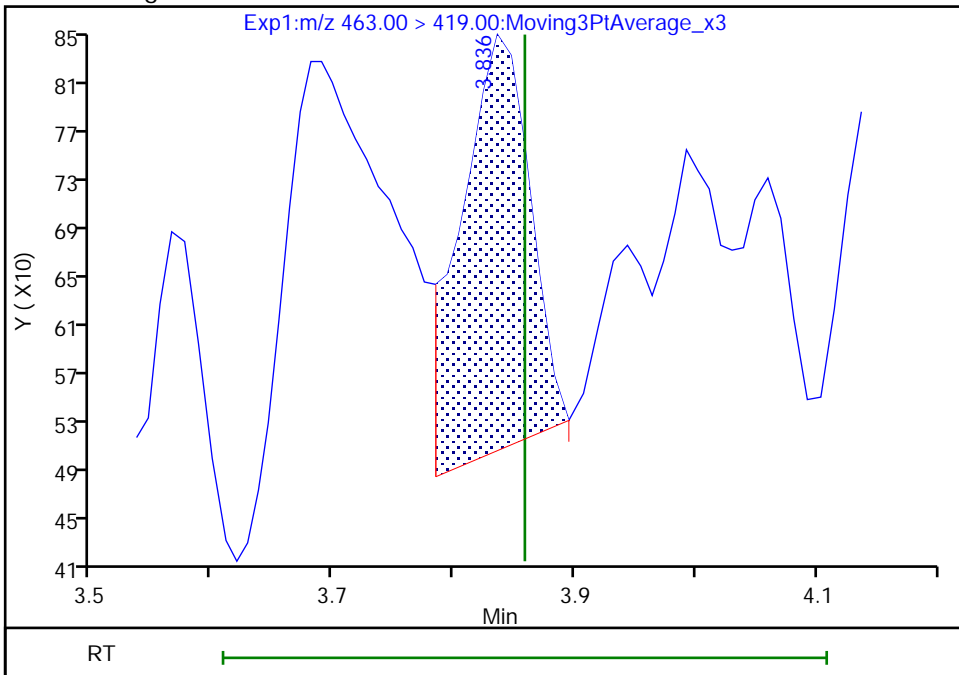
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.84
Area: 1334
Amount: 0.001534
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:28:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 180 of 761

Eurofins TestAmerica, Burlington

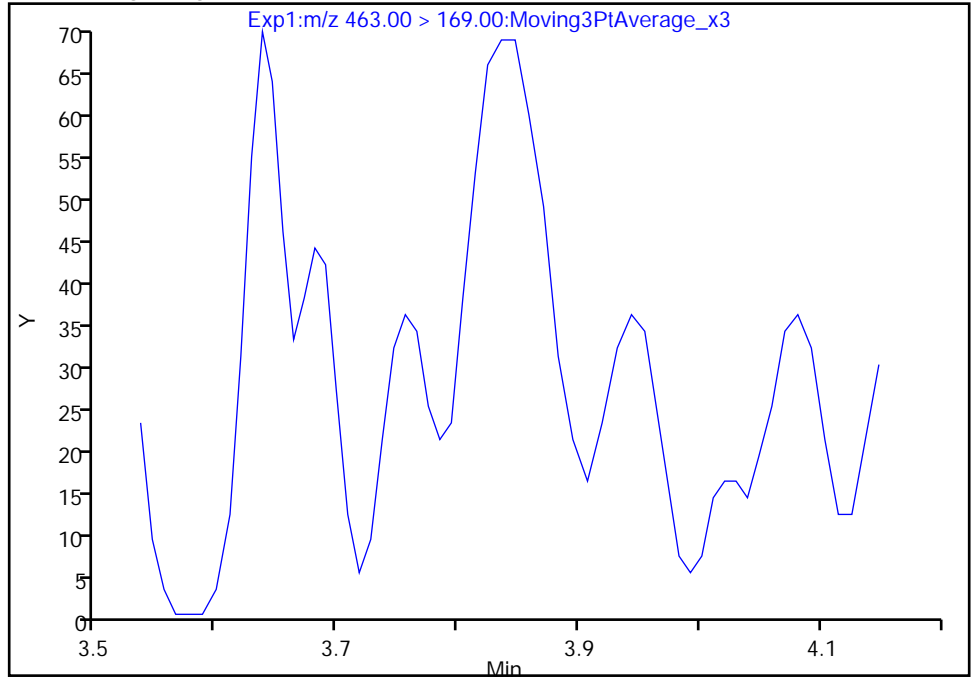
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

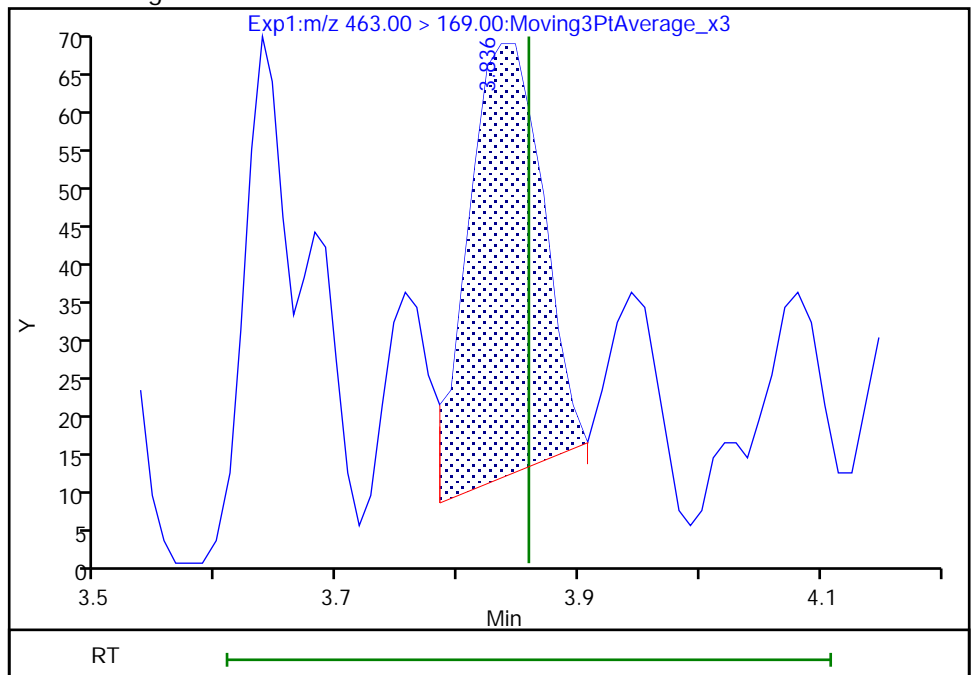
Not Detected
Expected RT: 3.86

Processing Integration Results



RT: 3.84
Area: 245
Amount: 0.001534
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:28:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

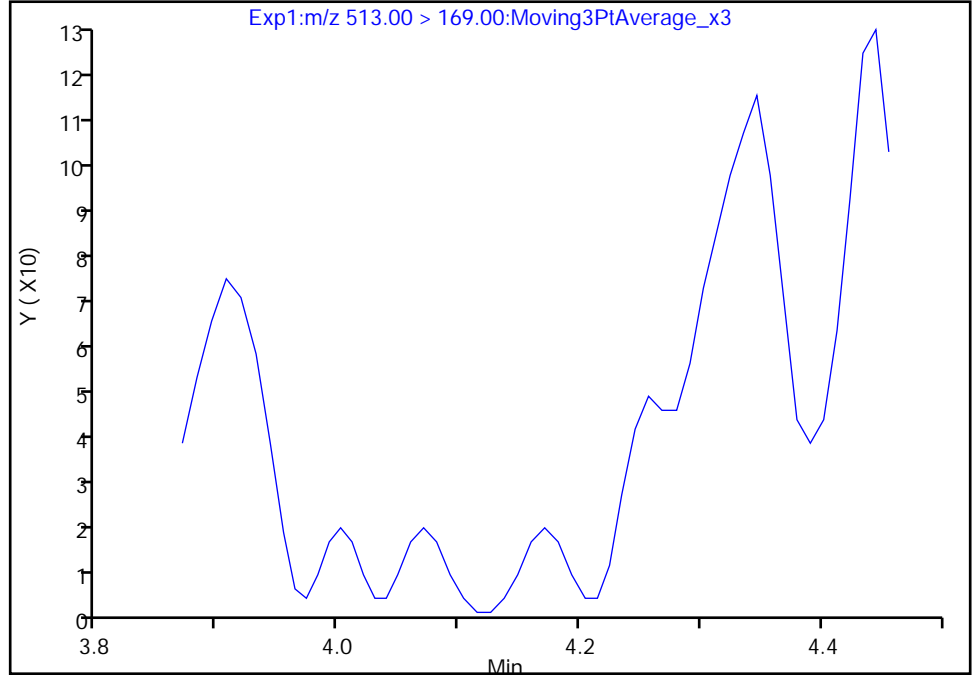
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
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Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

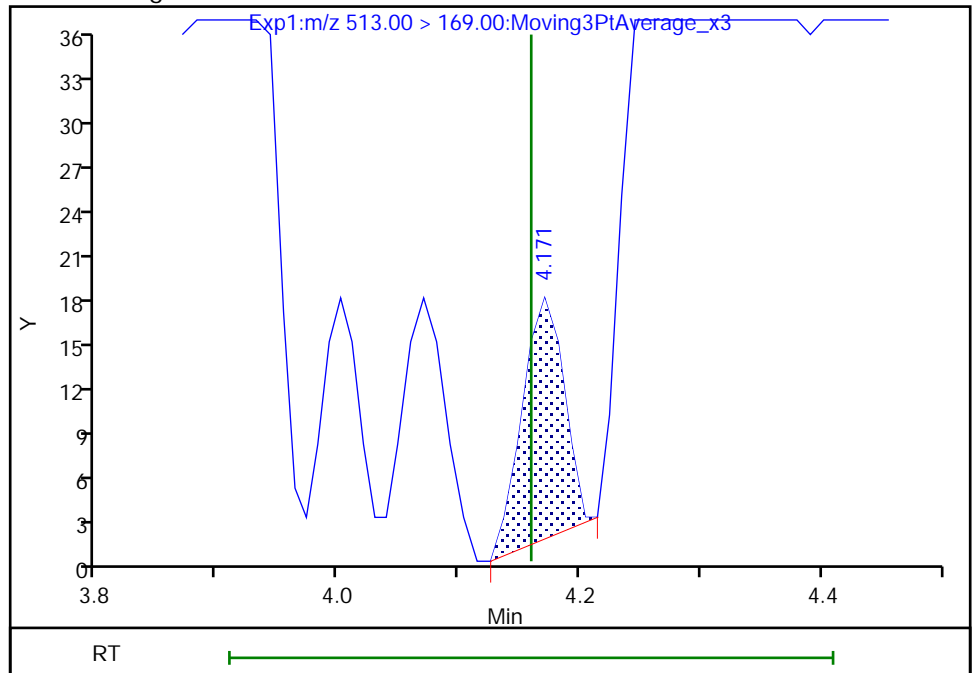
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.17
Area: 39
Amount: 0.001387
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:28:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

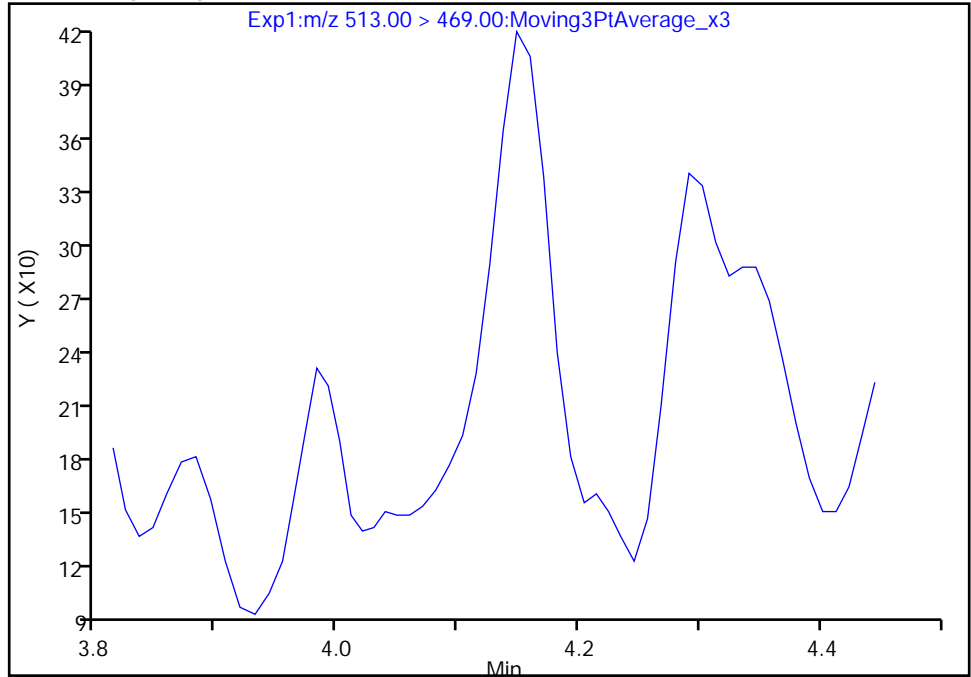
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

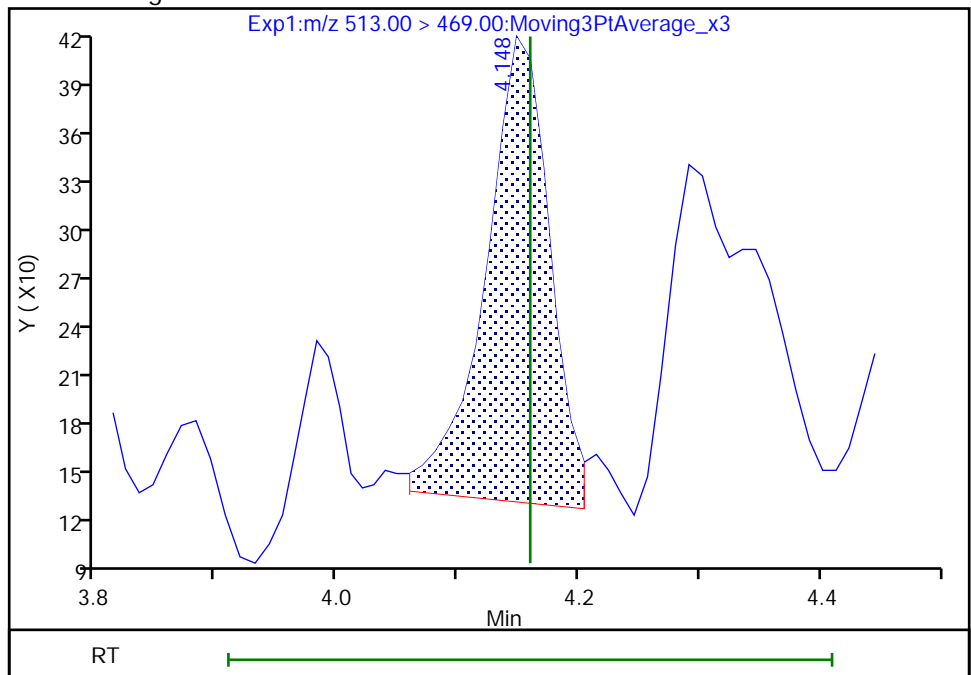
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 1069
Amount: 0.001387
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:28:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

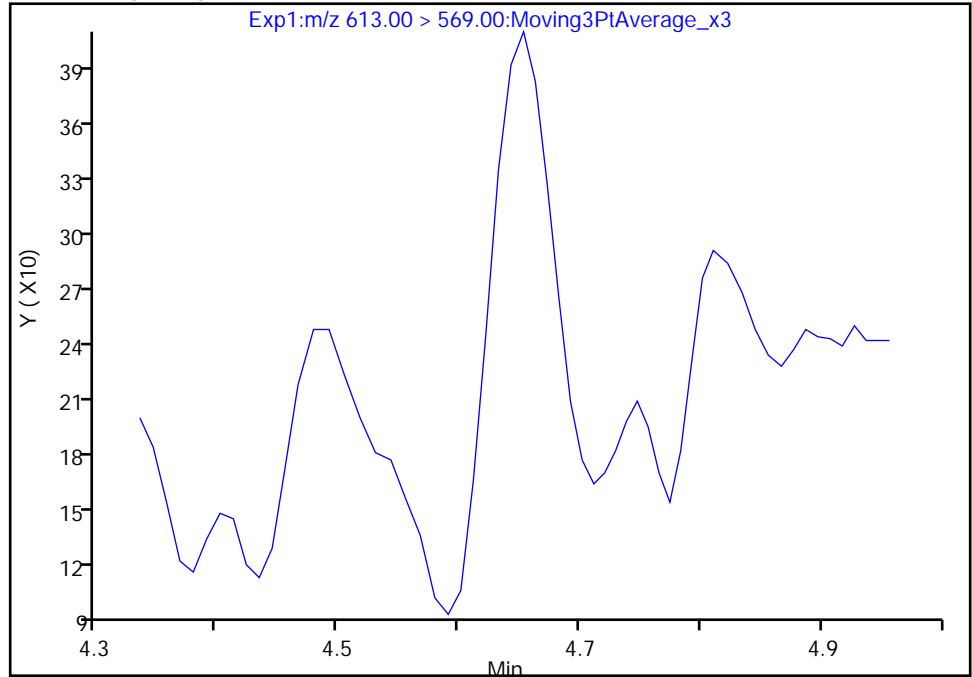
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

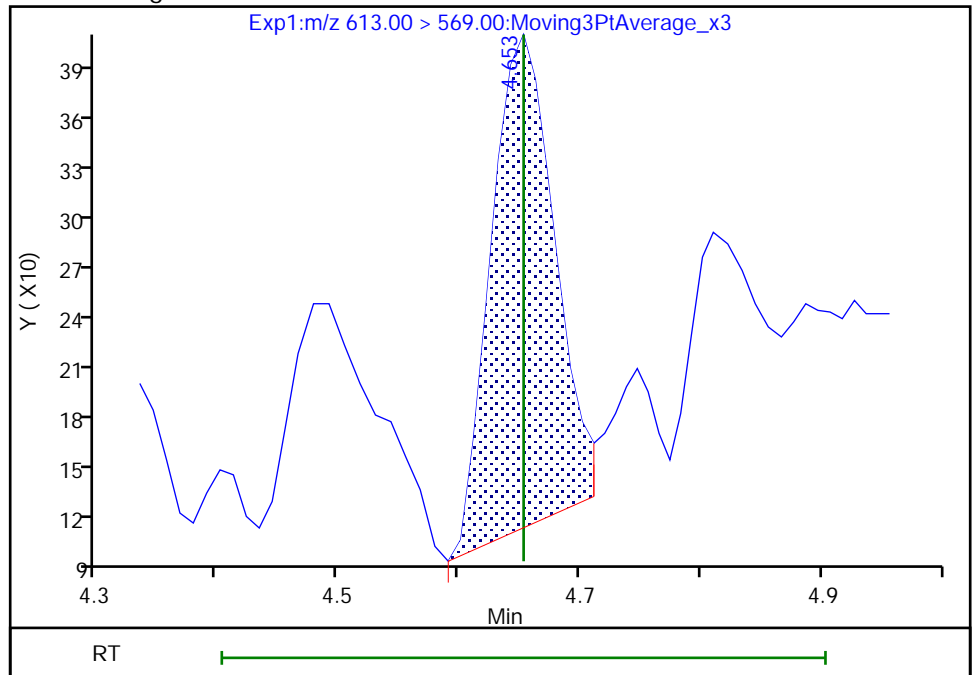
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.65
Area: 1079
Amount: 0.002139
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:30:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

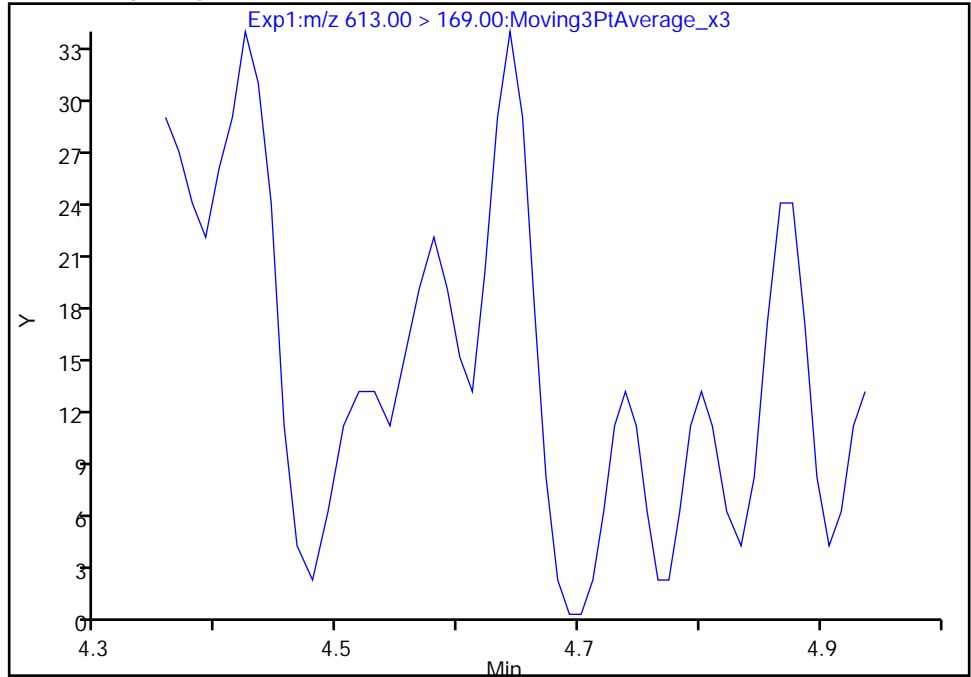
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

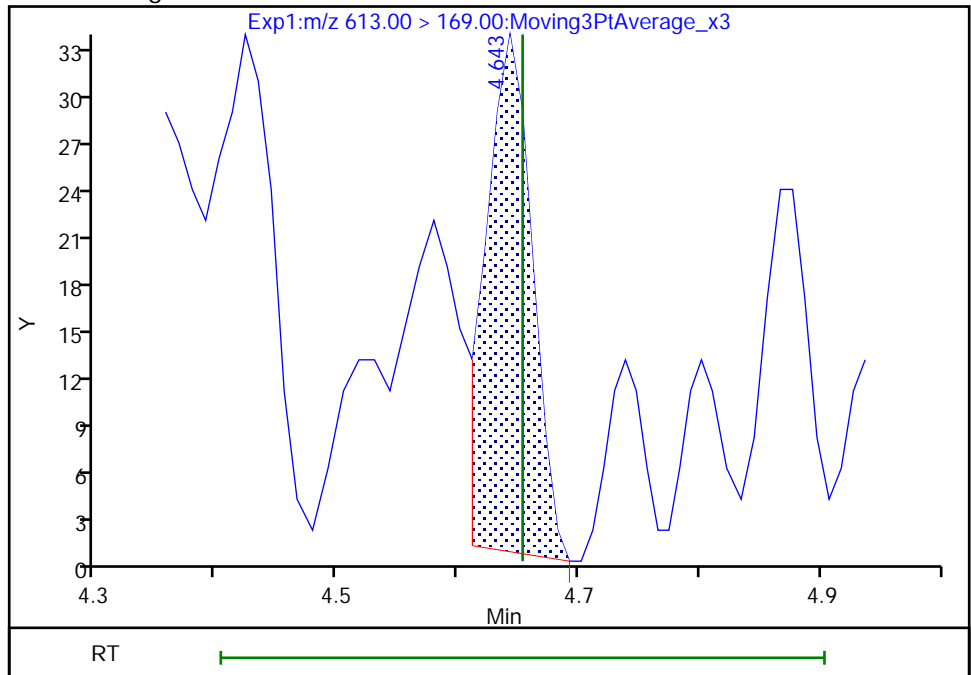
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.64
Area: 87
Amount: 0.002139
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:30:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

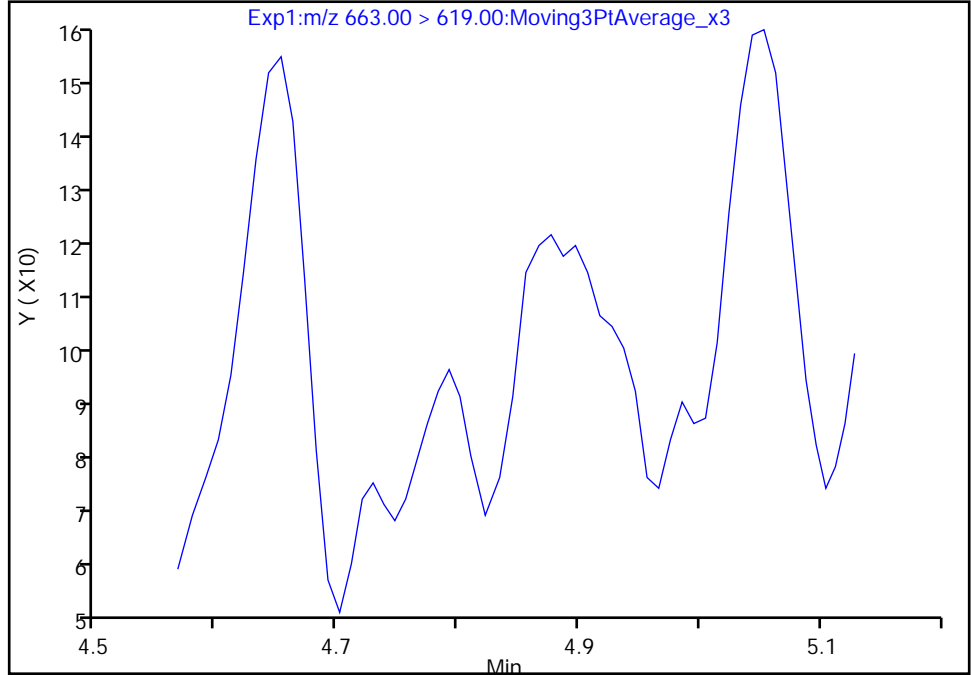
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

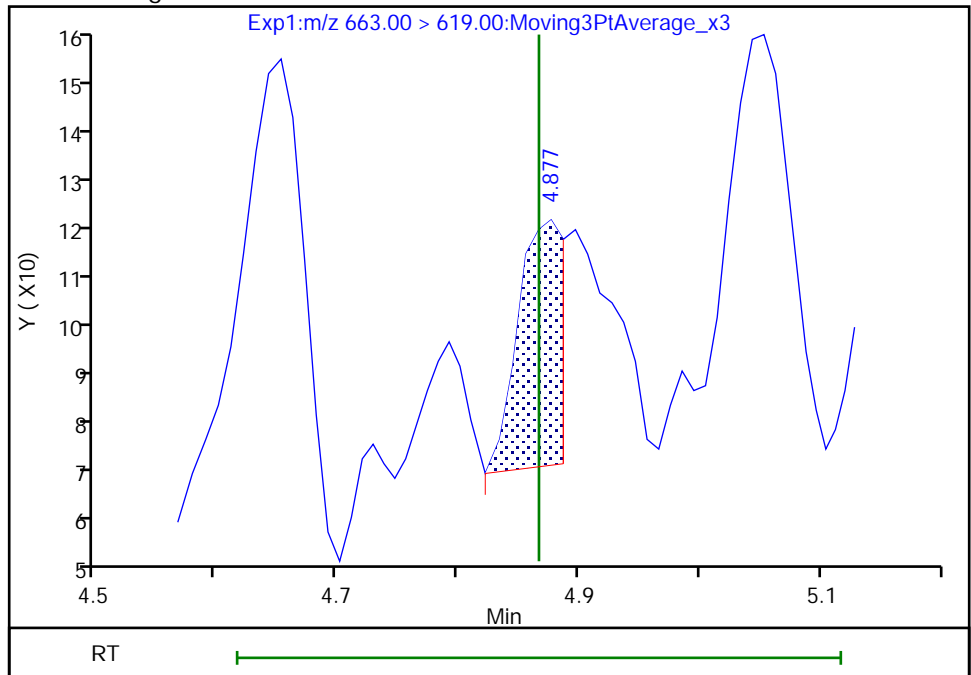
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.88
Area: 121
Amount: 0.000297
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:30:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

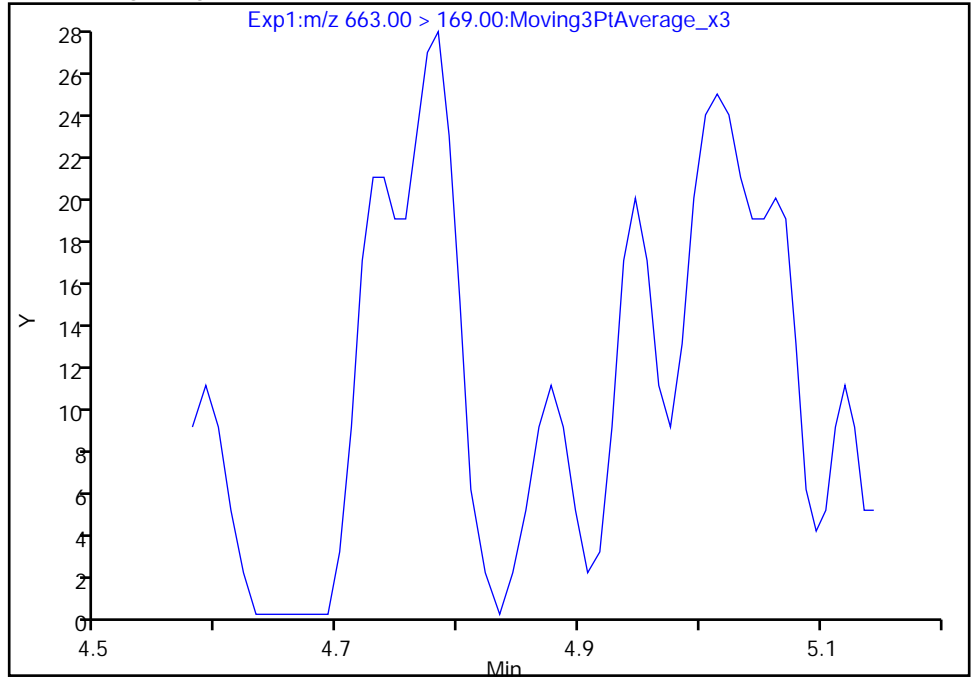
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

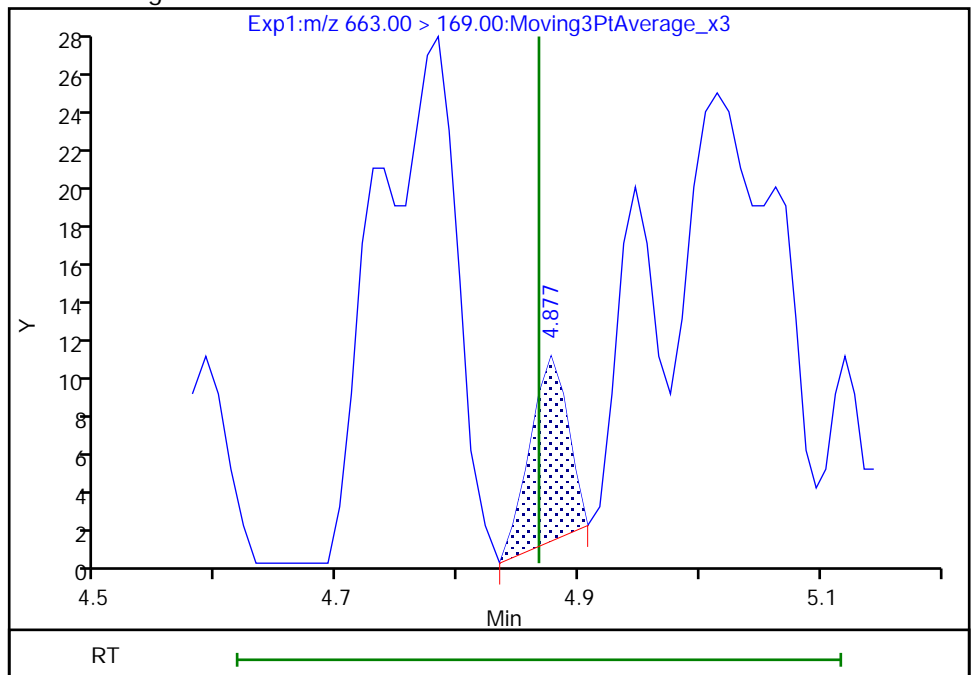
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.88
Area: 21
Amount: 0.000297
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:30:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

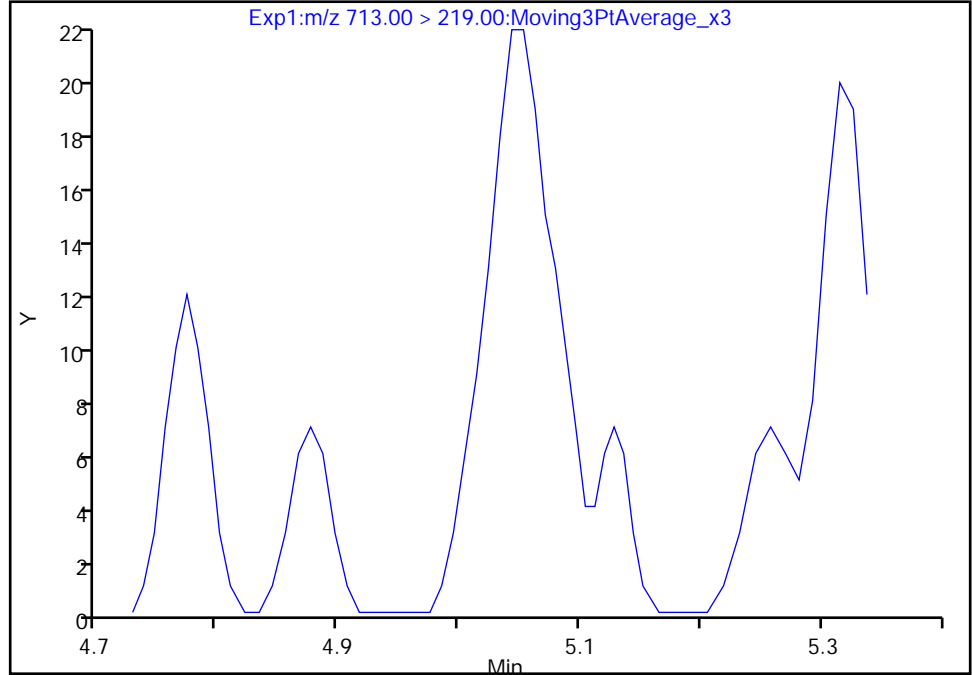
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

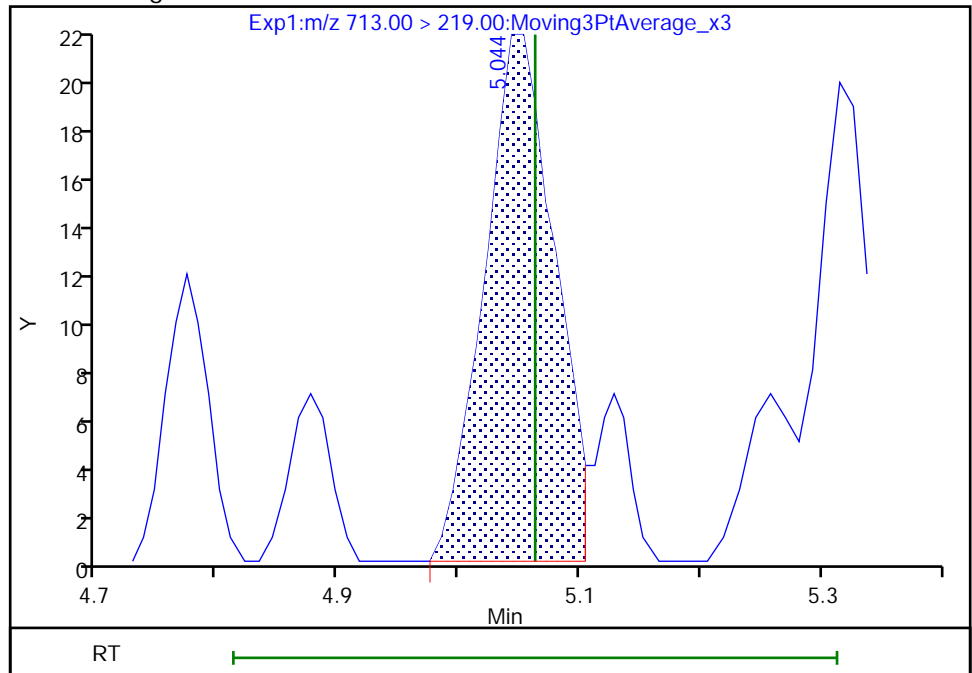
Signal: 2

Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results



RT: 5.04
Area: 88
Amount: 0.002564
Amount Units: ng/ml

Reviewer: nampitakw, 24-May-2021 10:31:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

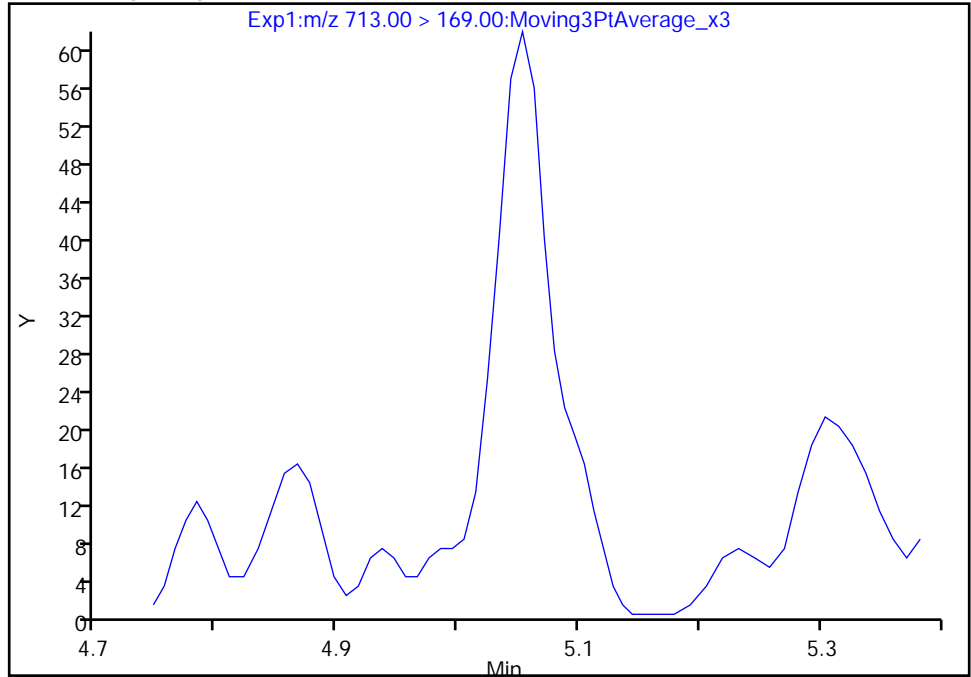
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Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

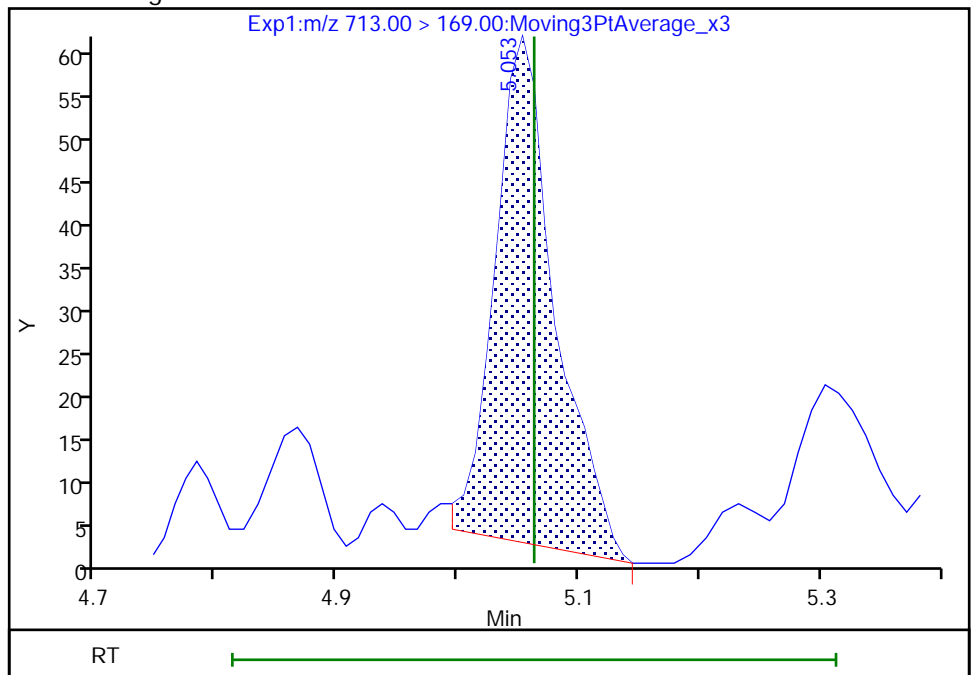
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.05
Area: 206
Amount: 0.002564
Amount Units: ng/ml



Reviewer: nampitkw, 24-May-2021 10:31:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

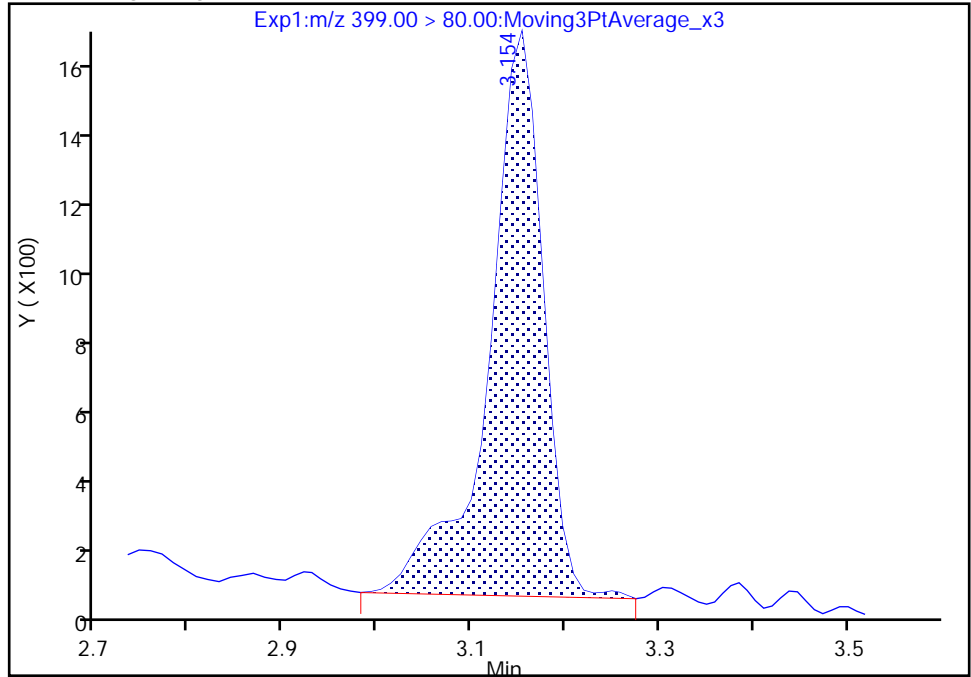
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

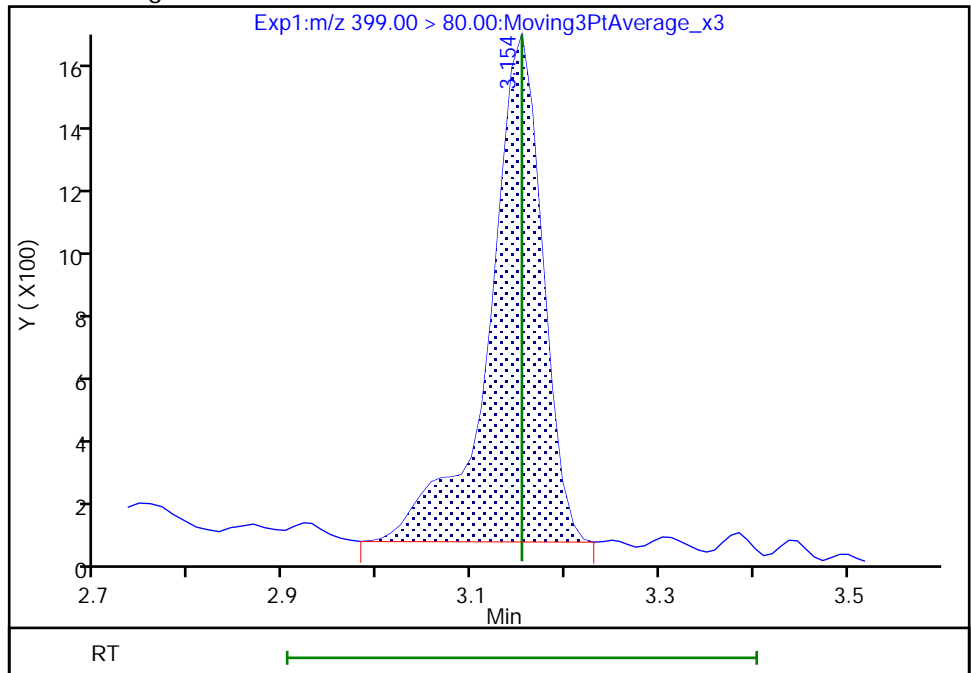
RT: 3.15
Area: 6239
Amount: 0.006327
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 6113
Amount: 0.006199
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:24:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

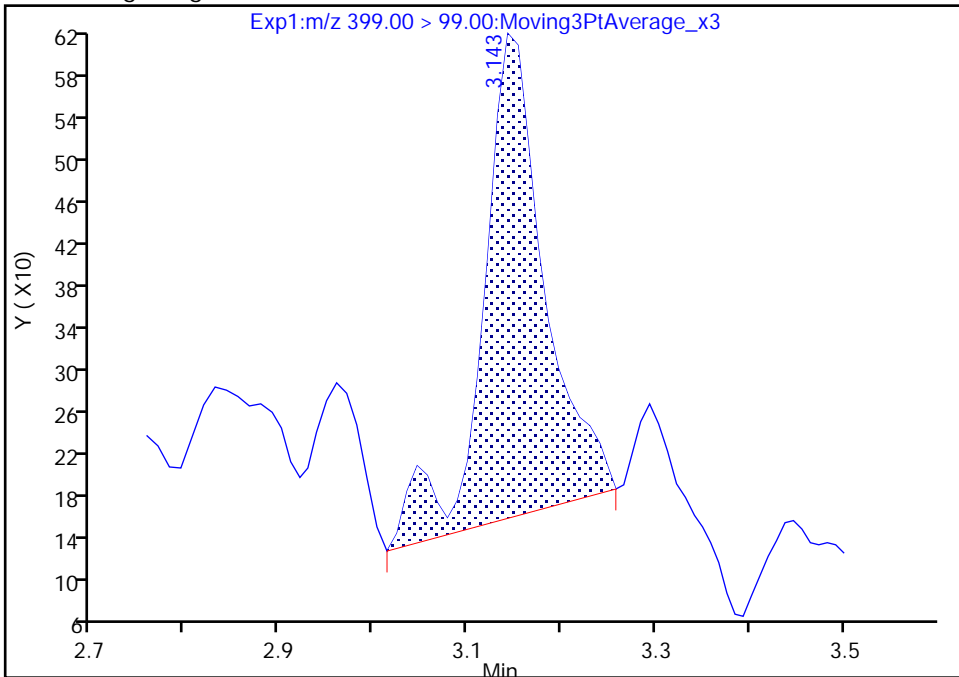
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

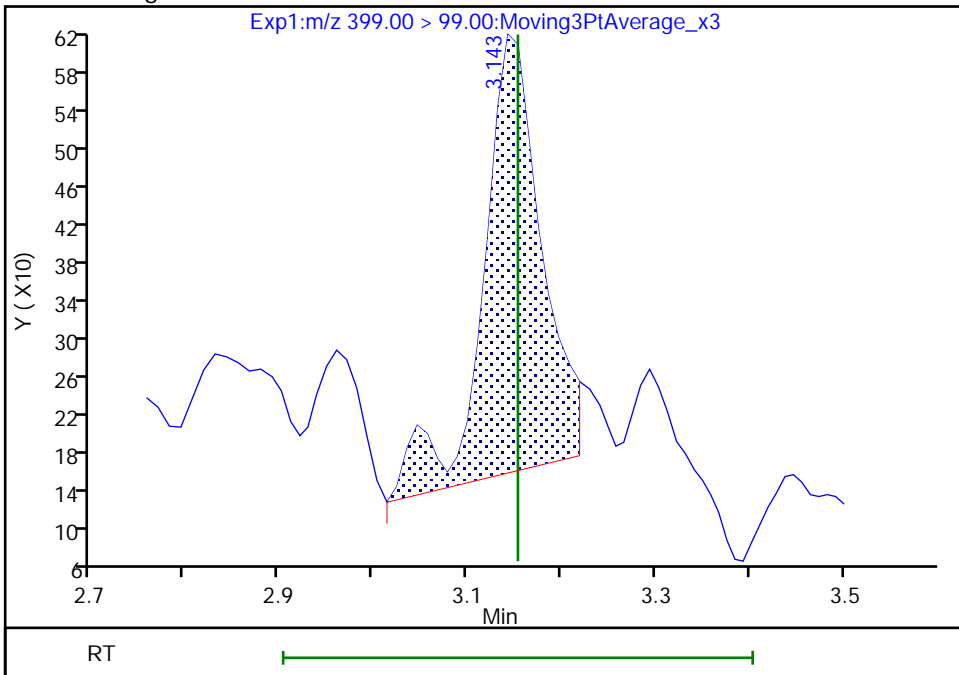
RT: 3.14
Area: 2099
Amount: 0.006327
Amount Units: ng/ml

Processing Integration Results



RT: 3.14
Area: 1996
Amount: 0.006199
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:24:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

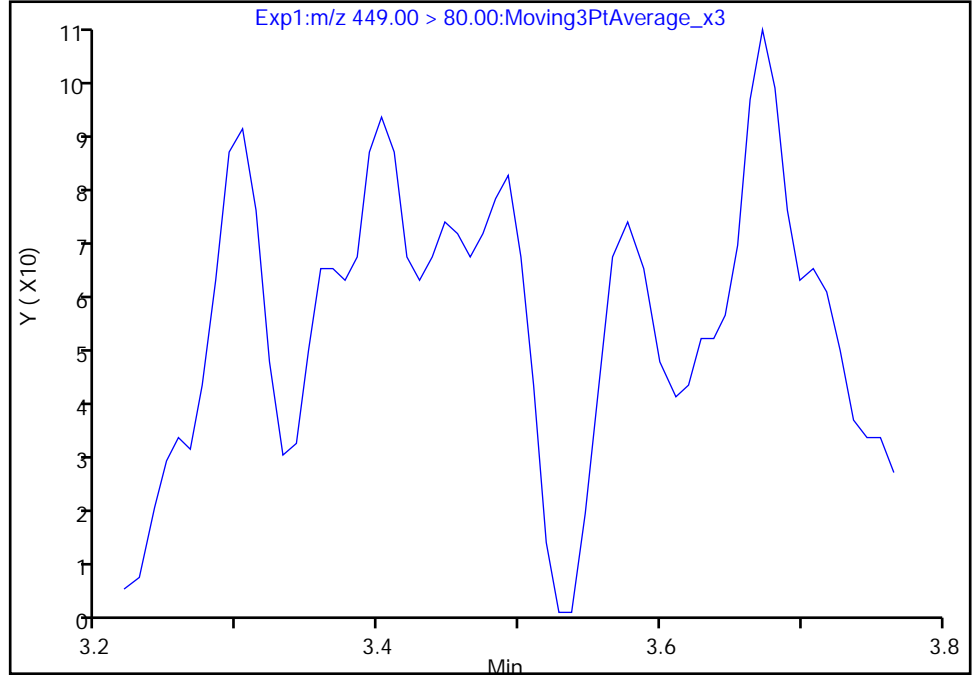
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

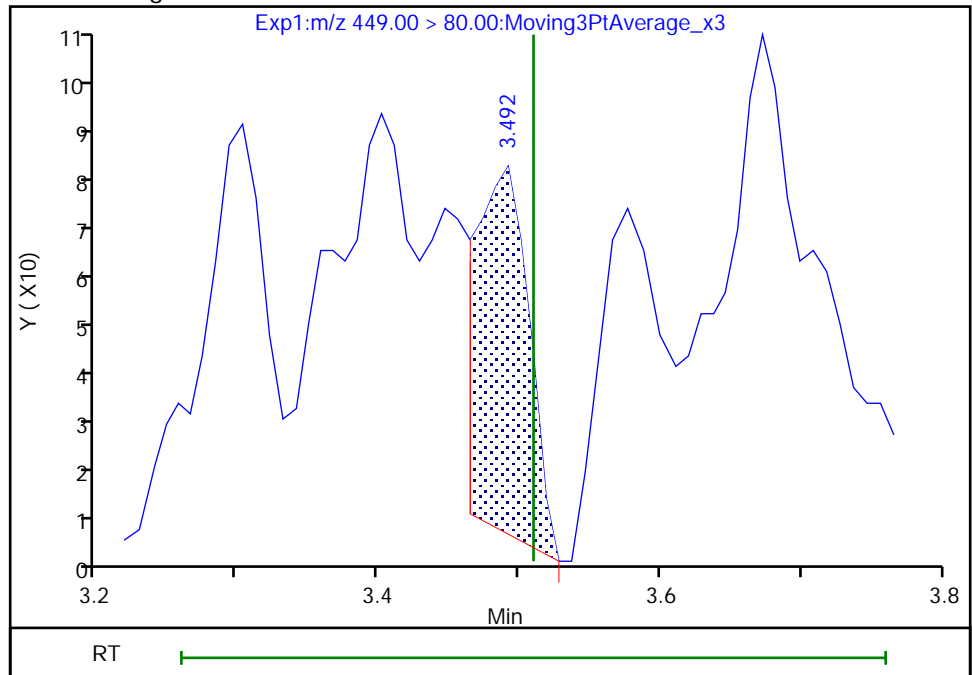
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.49
Area: 173
Amount: 0.000238
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:25:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

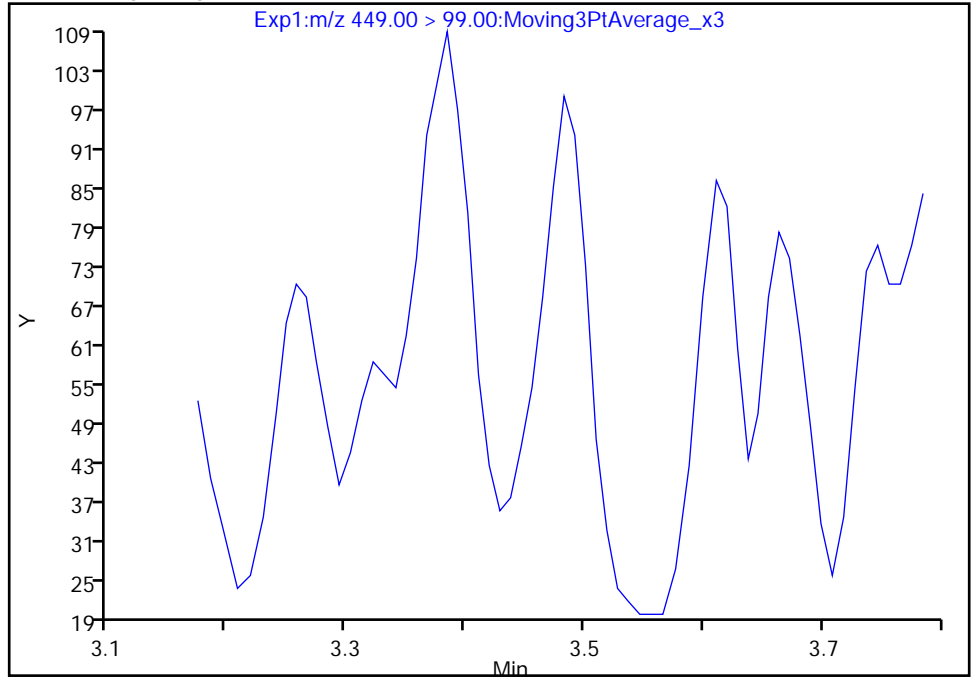
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

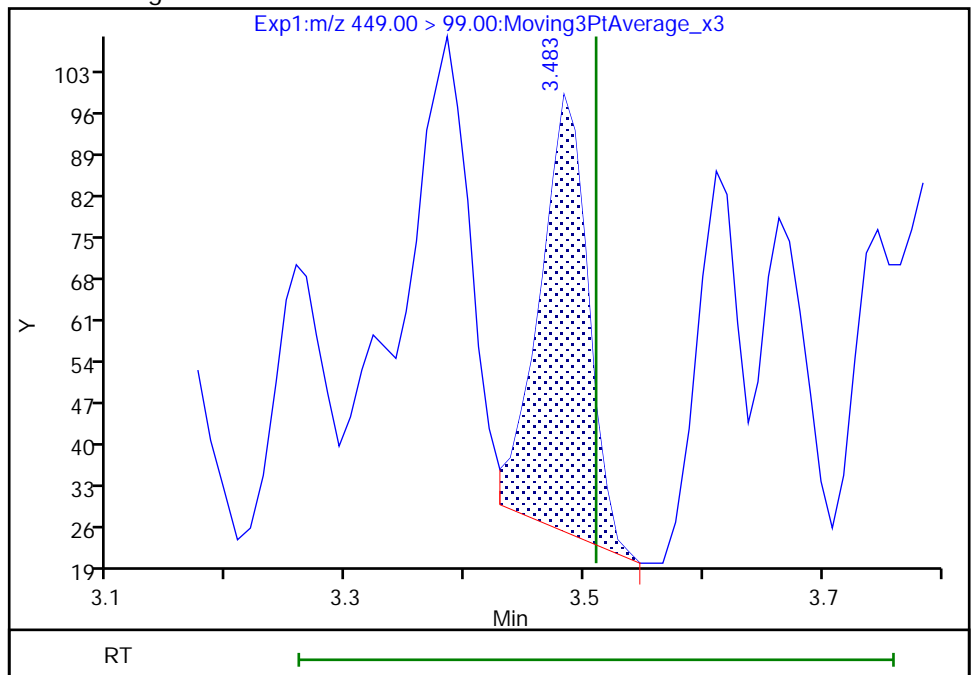
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.48
Area: 210
Amount: 0.000238
Amount Units: ng/ml



Reviewer: nampitkw, 24-May-2021 10:25:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

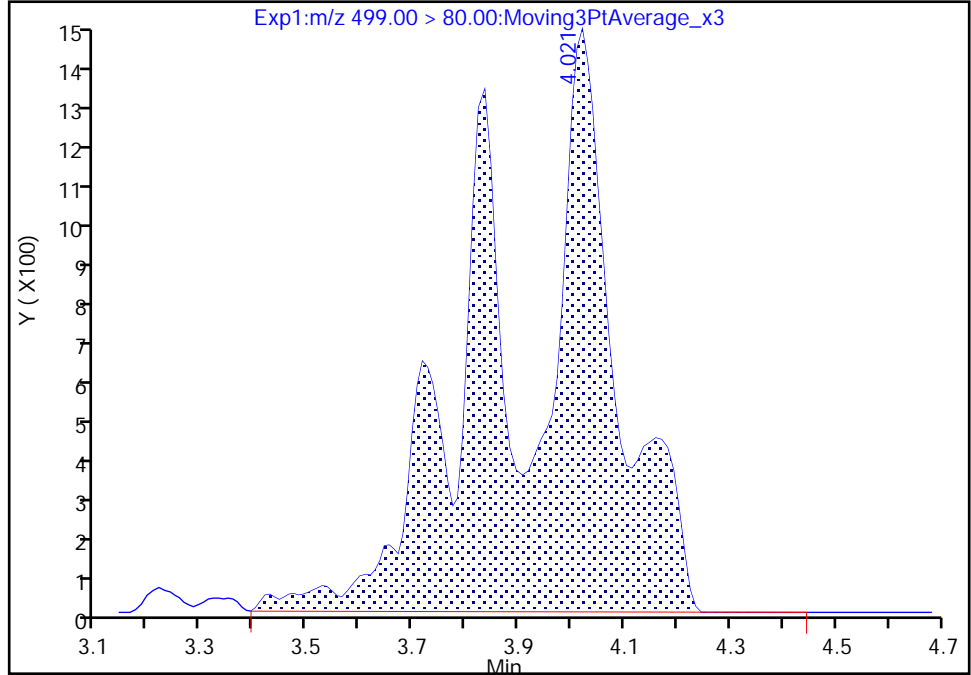
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

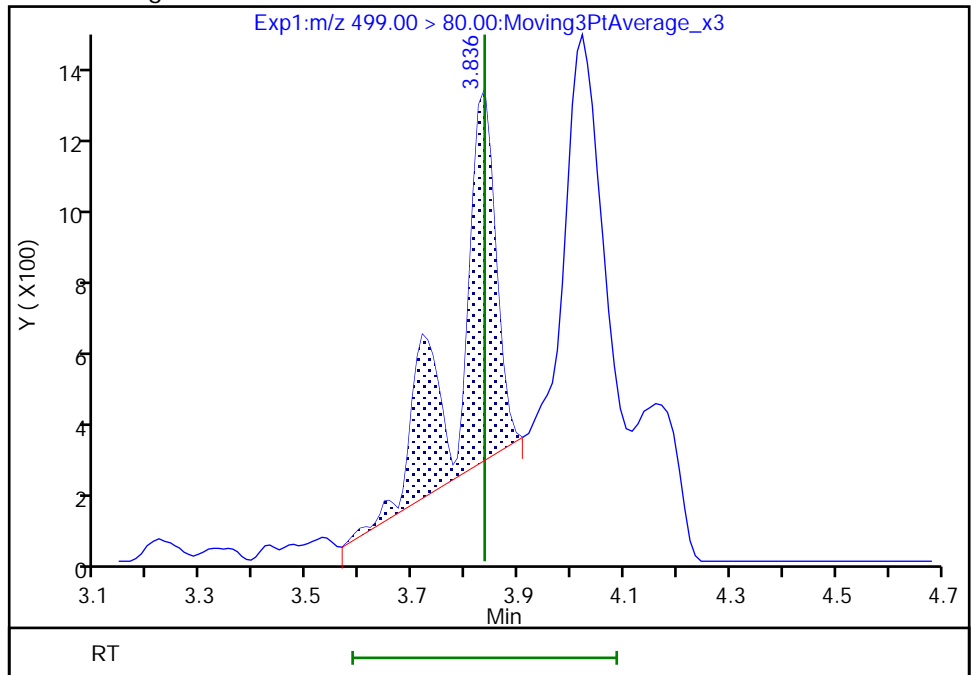
RT: 4.02
Area: 20742
Amount: 0.032987
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 5064
Amount: 0.008054
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

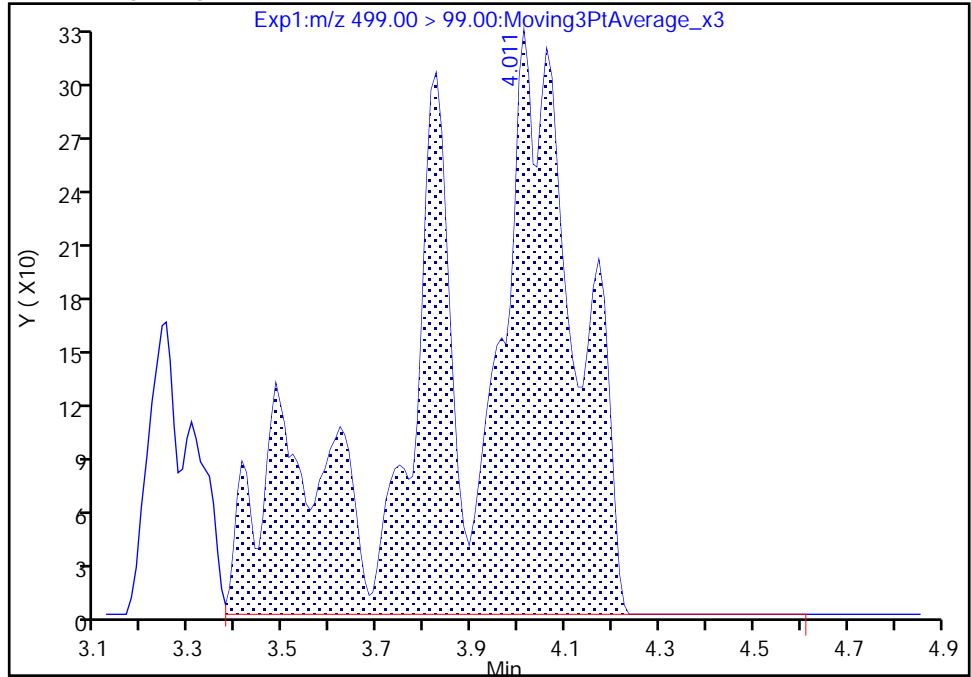
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

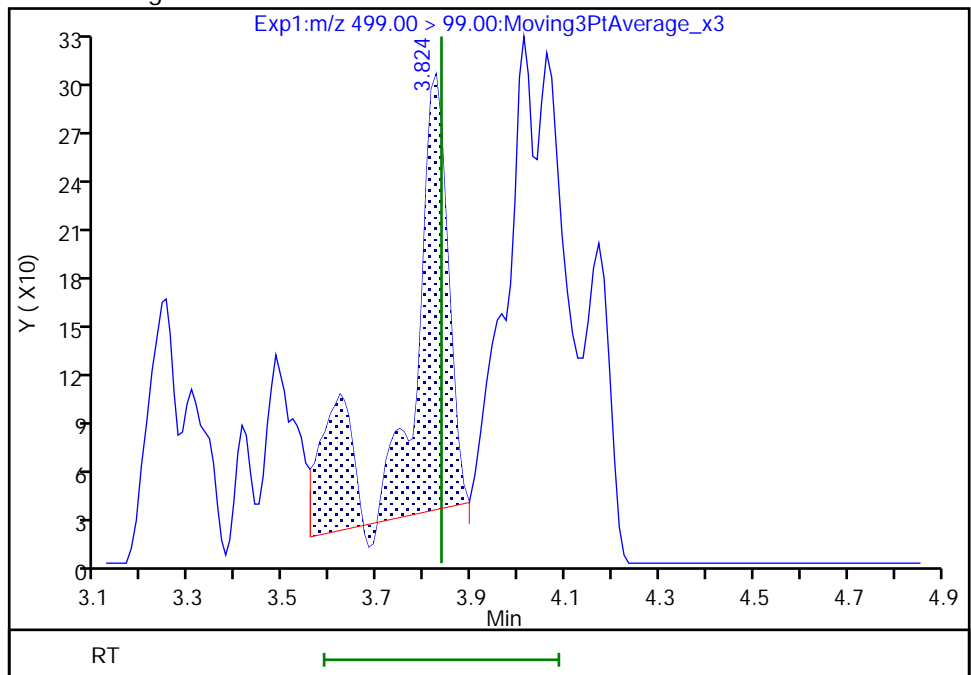
RT: 4.01
Area: 6243
Amount: 0.032987
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 1527
Amount: 0.008054
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:27:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

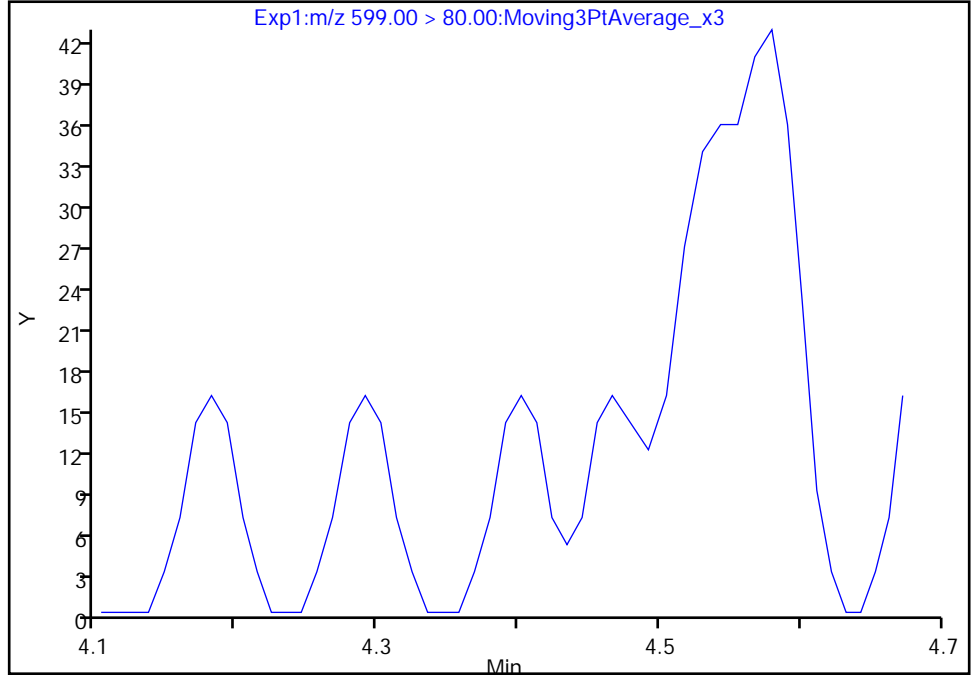
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

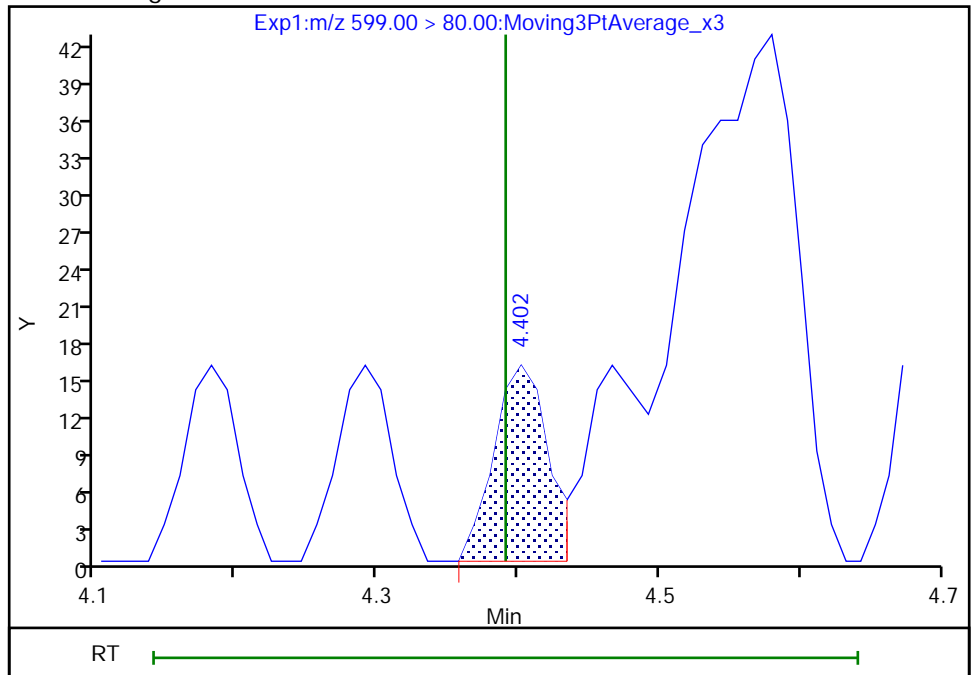
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.40
Area: 41
Amount: 0.000111
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:29:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

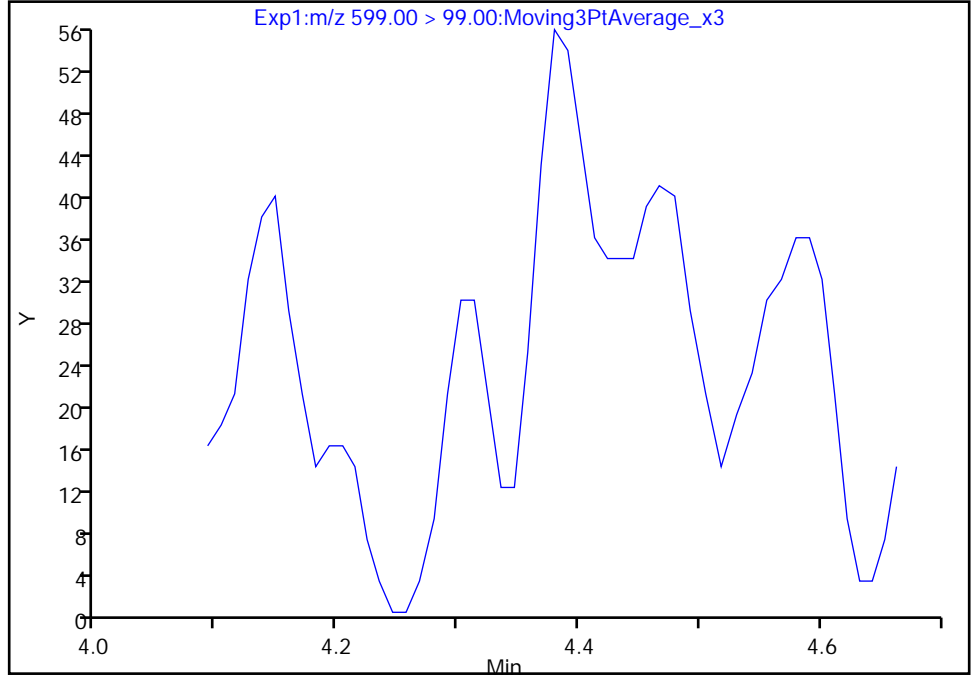
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

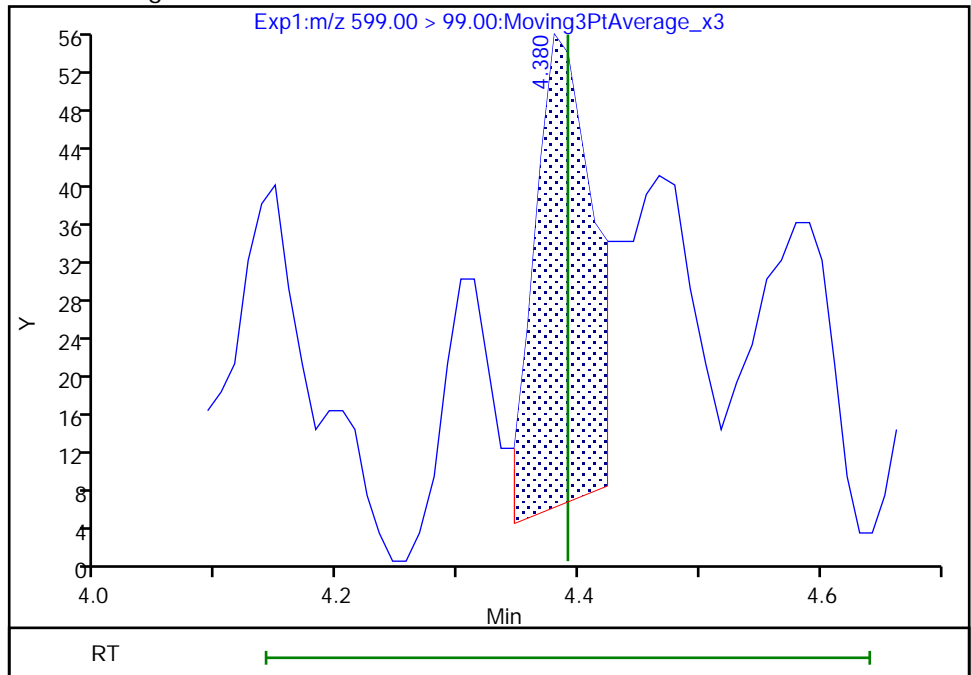
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 158
Amount: 0.000111
Amount Units: ng/ml



Reviewer: nampitkw, 24-May-2021 10:29:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

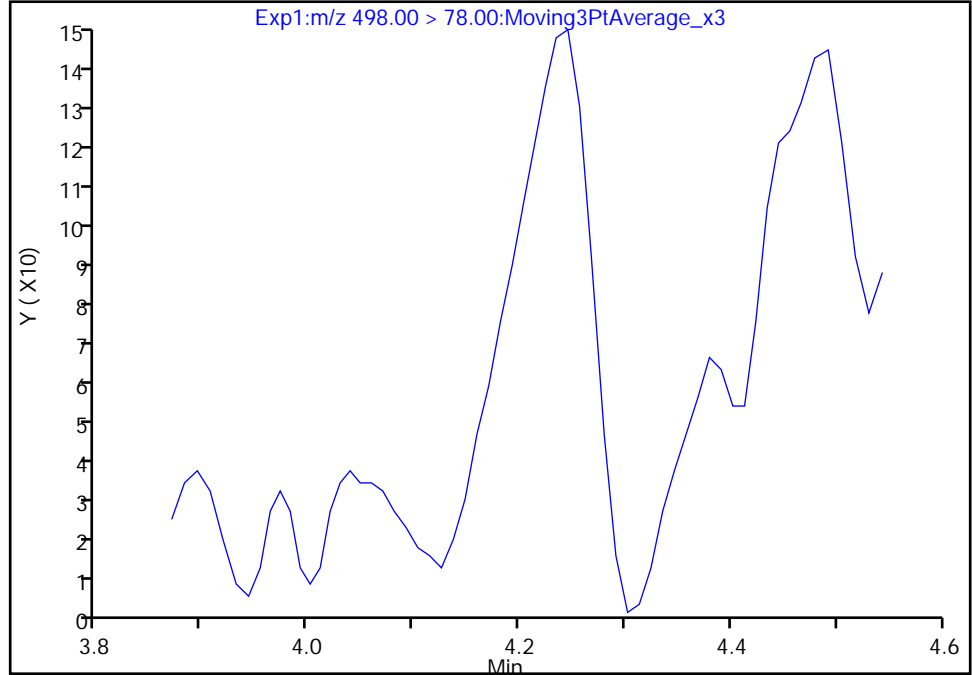
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

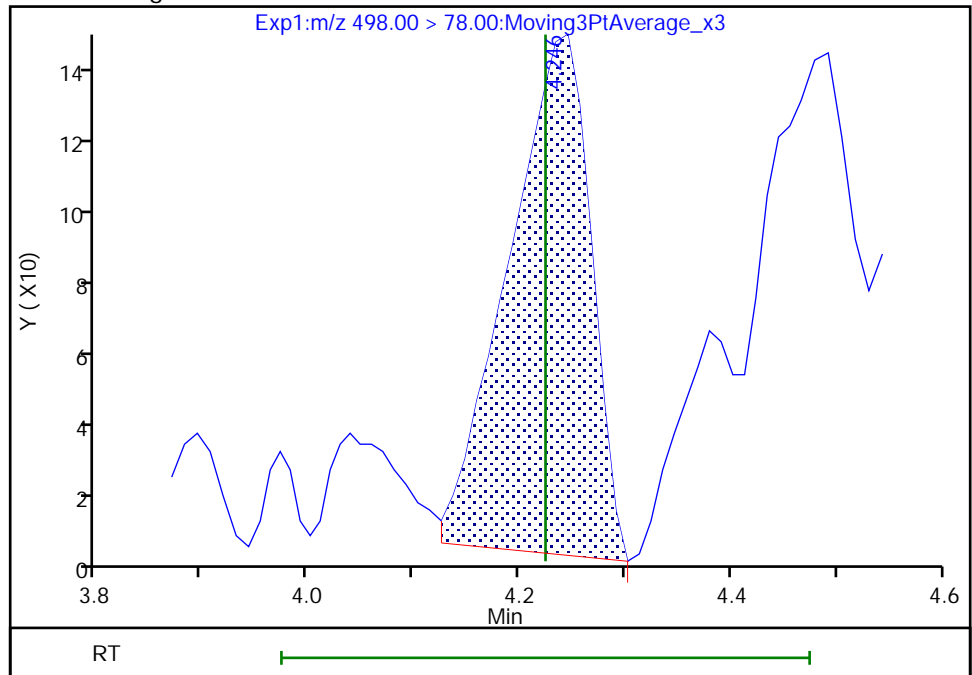
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.25
Area: 766
Amount: 0.000840
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:29:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

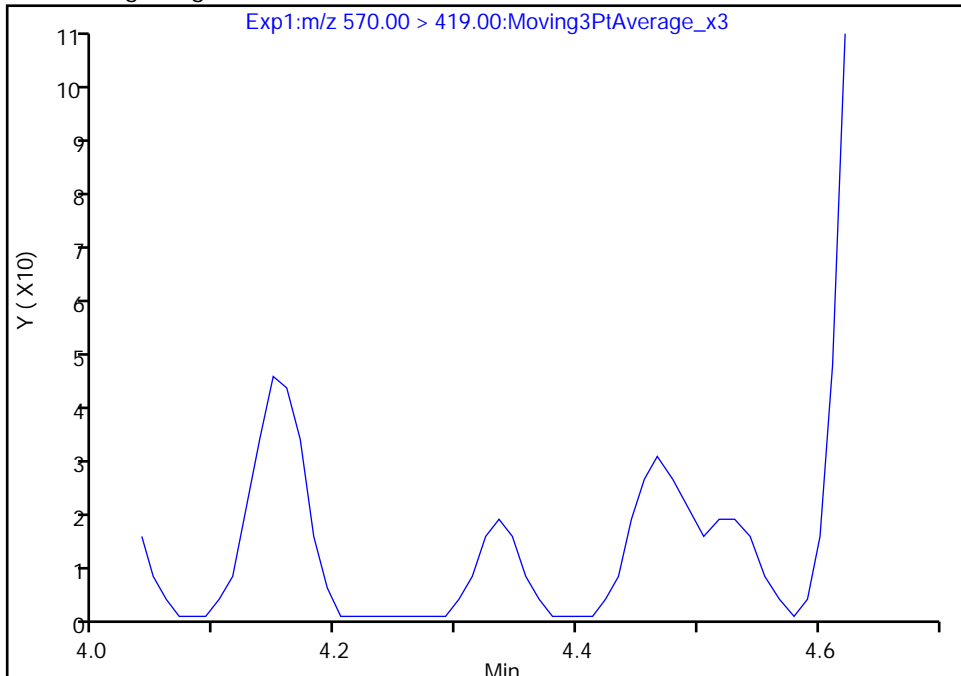
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

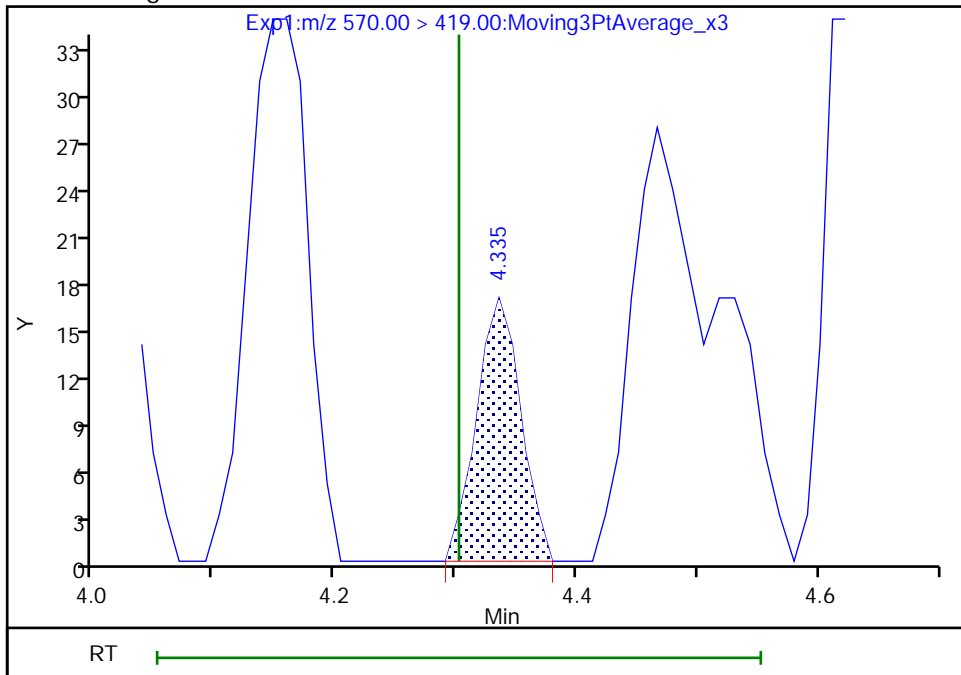
Not Detected
Expected RT: 4.30

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 43
Amount: 0.001011
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:29:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

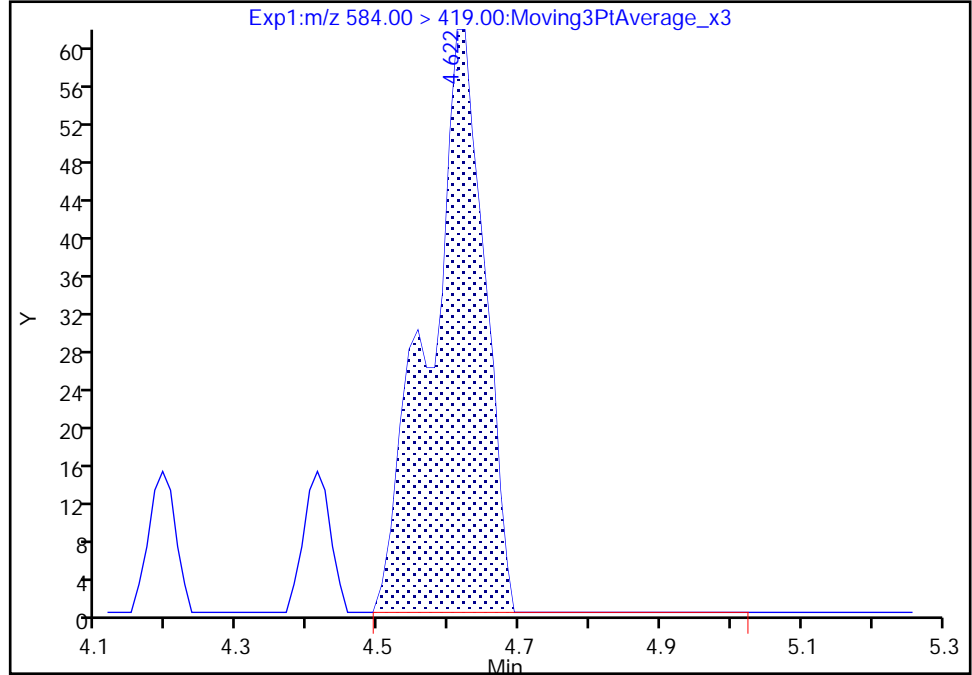
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

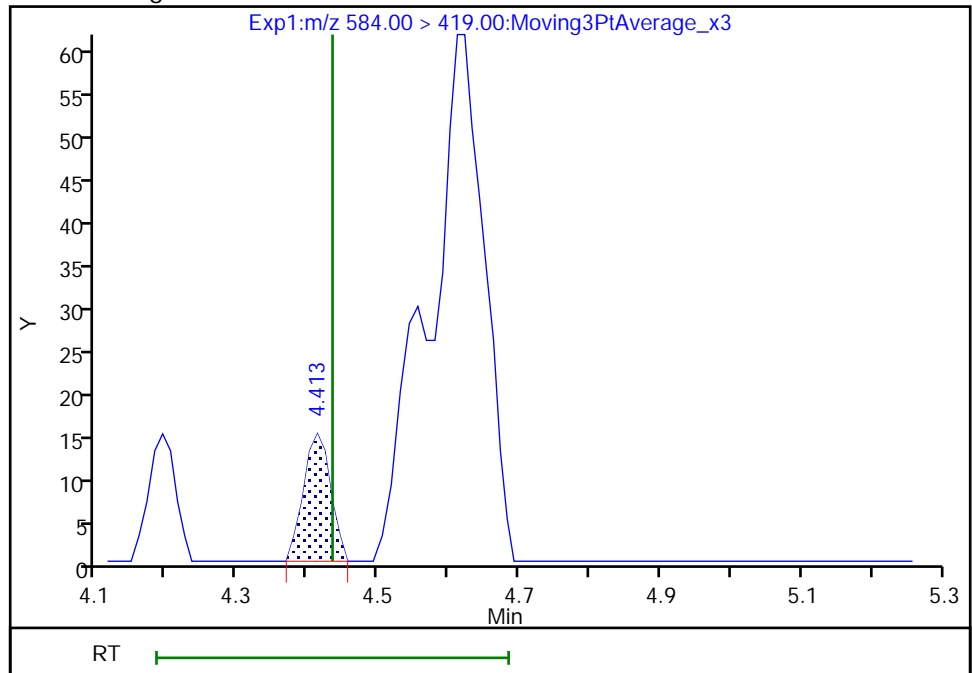
RT: 4.62
Area: 340
Amount: -0.002677
Amount Units: ng/ml

Processing Integration Results



RT: 4.41
Area: 39
Amount: -0.010044
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:29:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

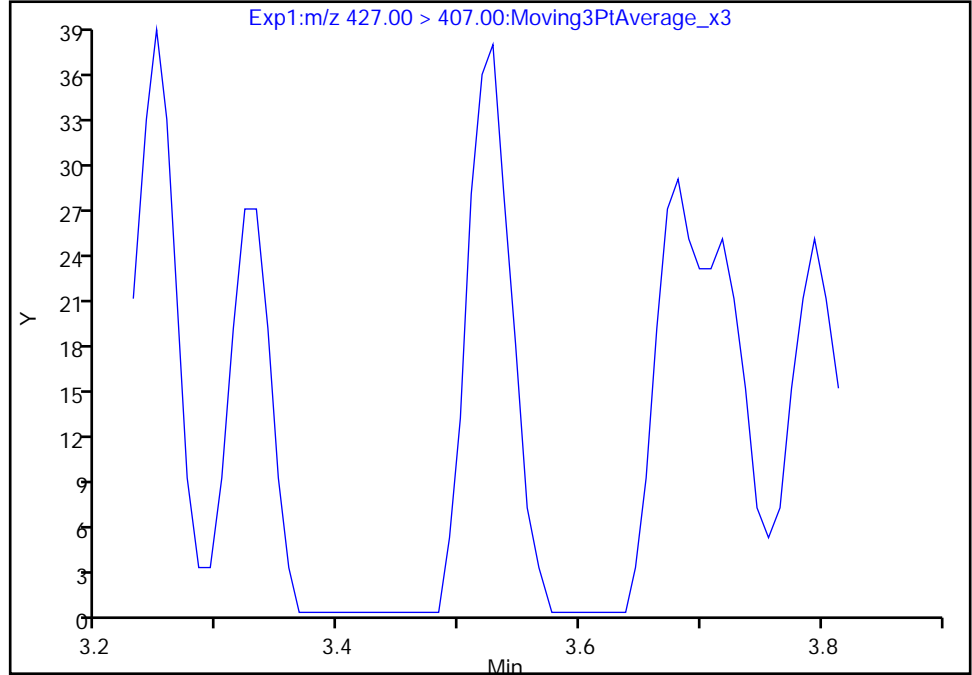
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

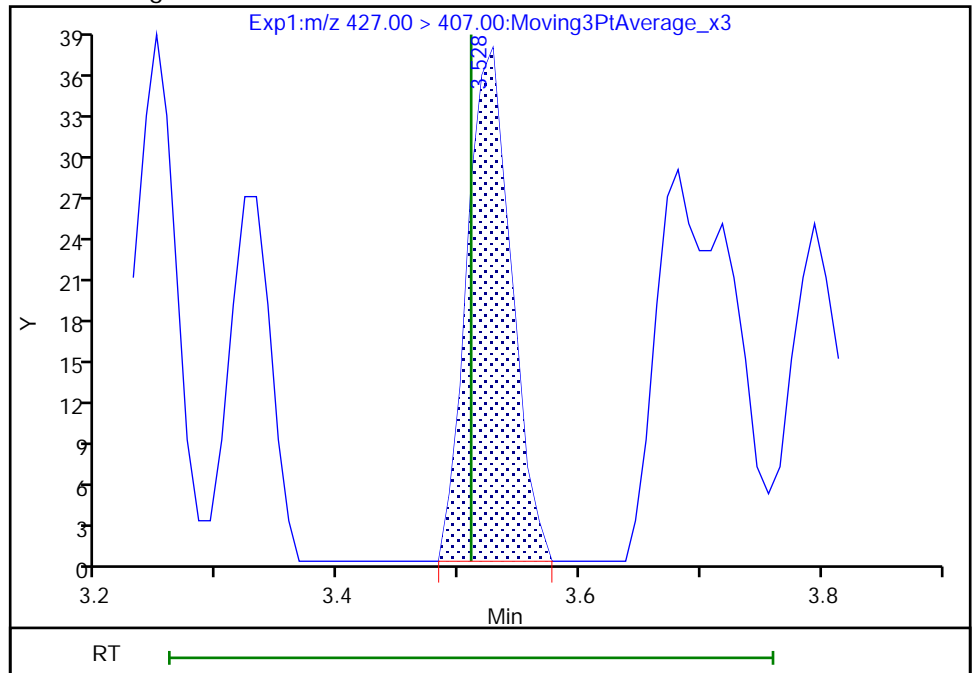
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.53
Area: 96
Amount: 0.000942
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:25:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

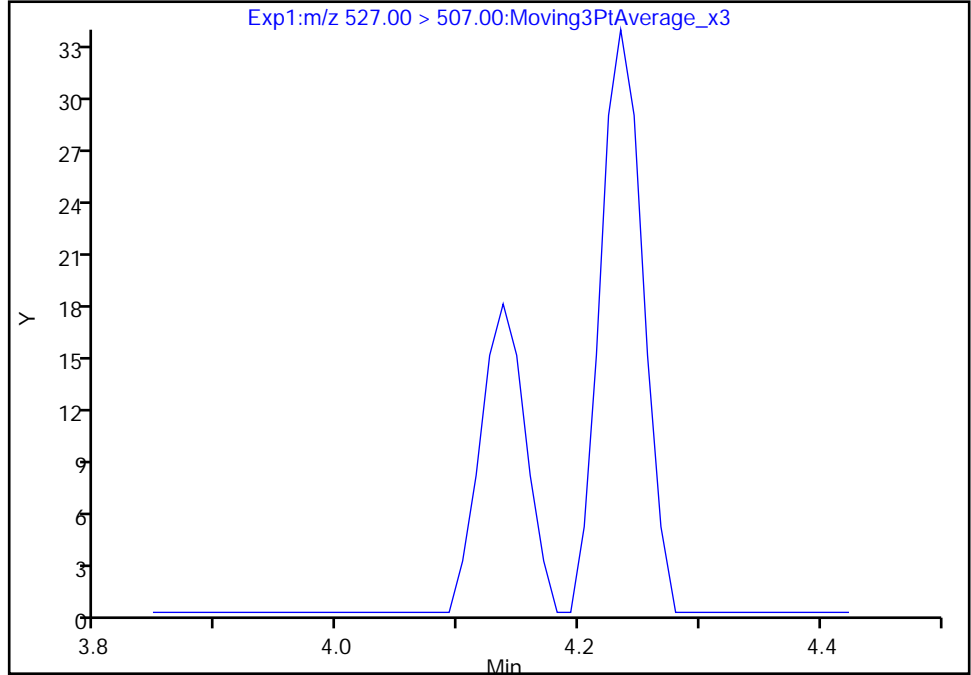
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
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

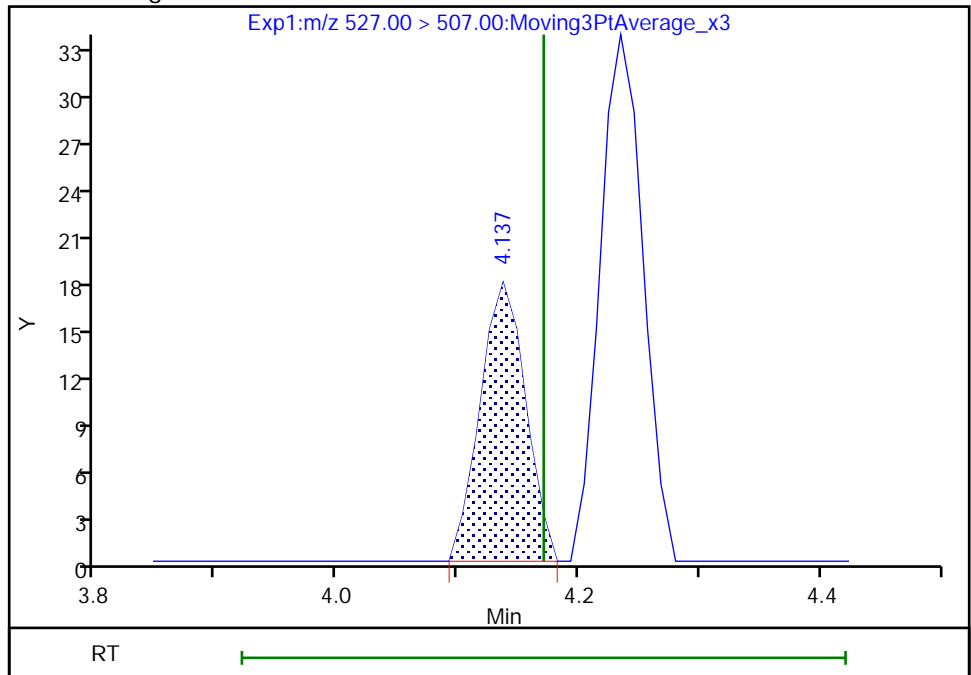
Not Detected
Expected RT: 4.17

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 46
Amount: 0.000748
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:28:46
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

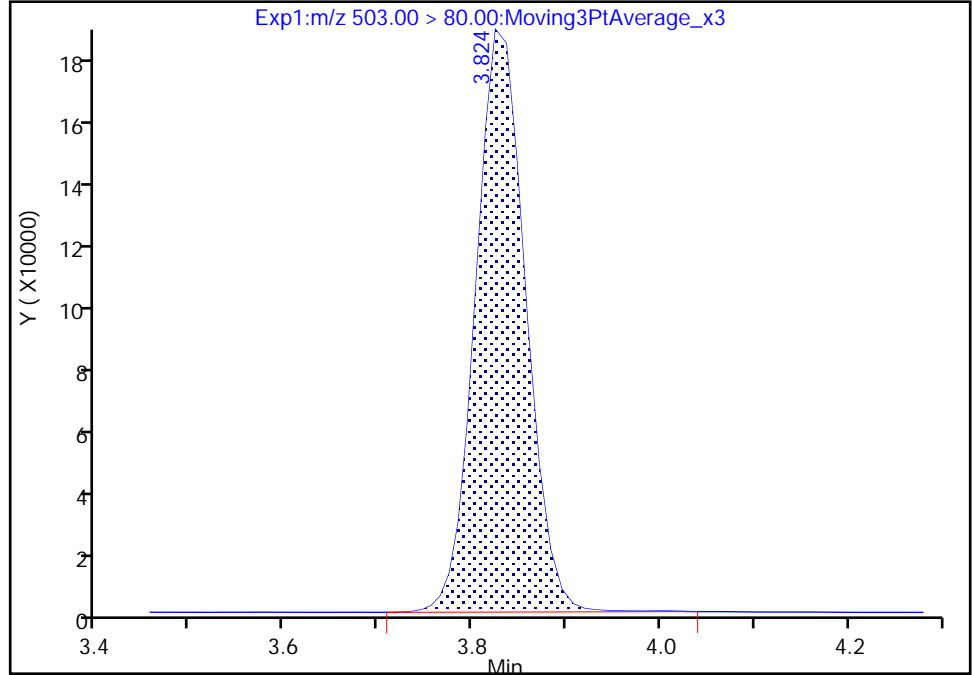
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

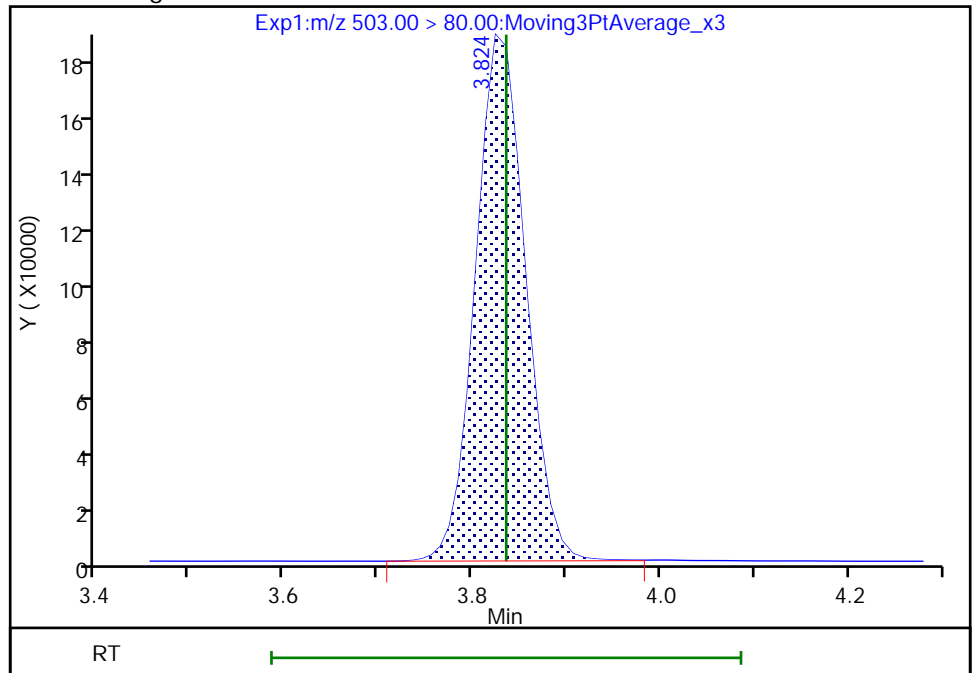
RT: 3.82
Area: 698407
Amount: 1.065826
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 697928
Amount: 1.065095
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:23:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

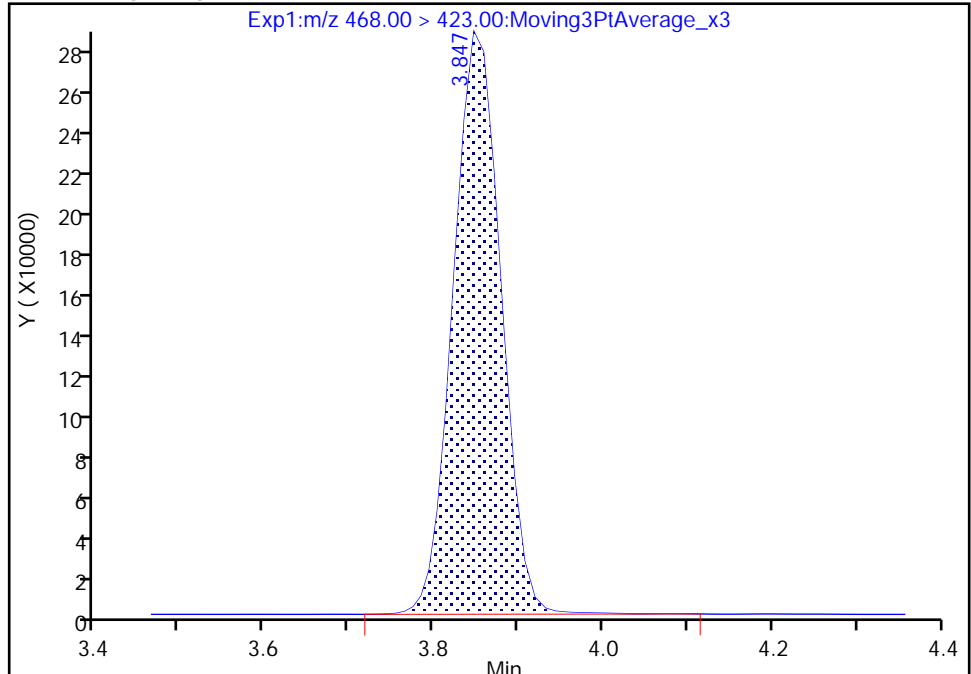
Data File:	\\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d	Instrument ID:	LC812	Worklist Smp#:	8
Injection Date:	21-May-2021 23:35:00	Lab Sample ID:	200-58440-4		
Lims ID:	200-58440-A-4-A				
Client ID:	DGC-4S				
Operator ID:	lc812tech	ALS Bottle#:	35		
Injection Vol:	20.0 ul	Dil. 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

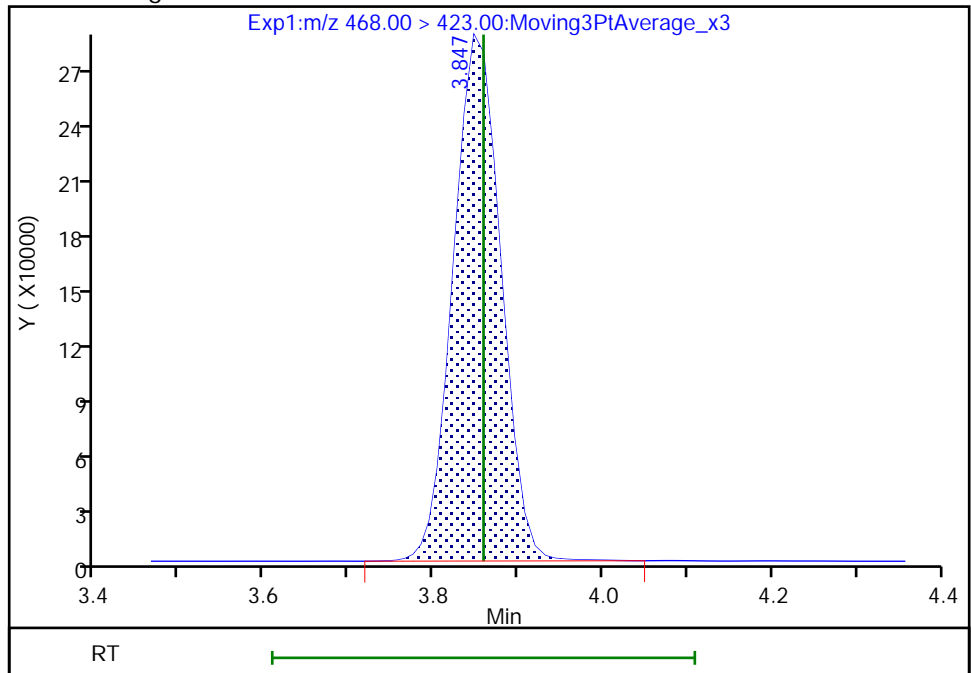
RT: 3.85
Area: 1130022
Amount: 1.192545
Amount Units: ng/ml

Processing Integration Results



RT: 3.85
Area: 1128503
Amount: 1.190942
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:23:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

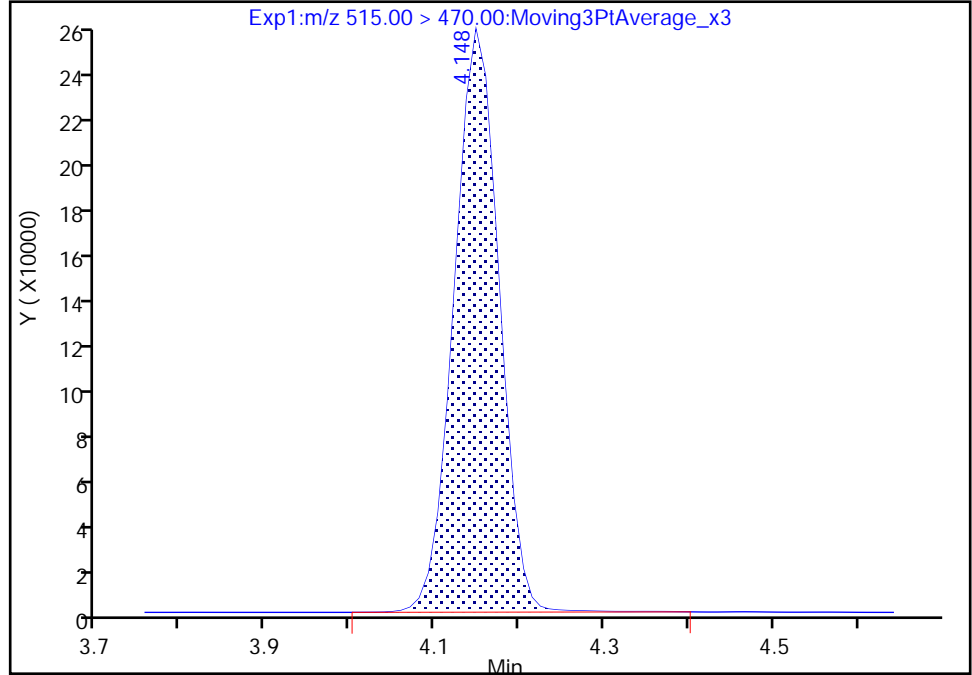
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

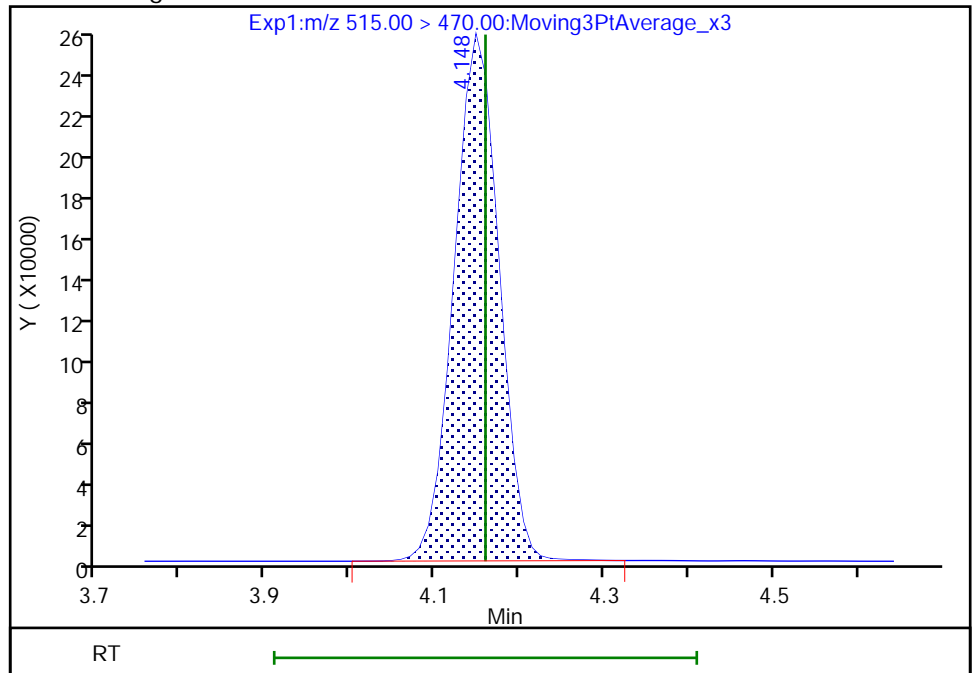
RT: 4.15
Area: 922439
Amount: 1.110079
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 920362
Amount: 1.107580
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:23:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

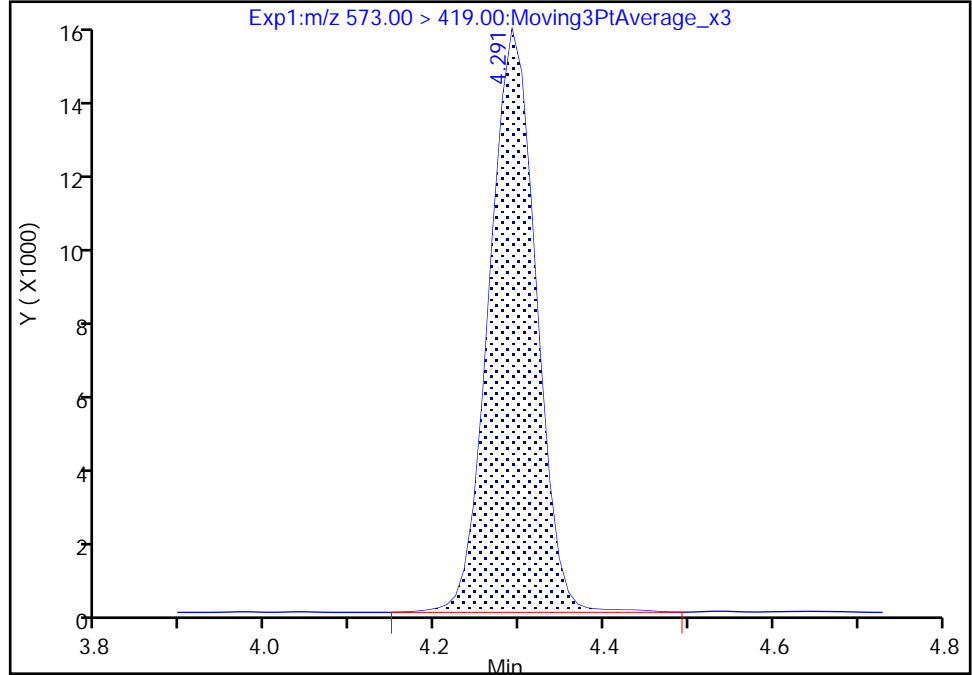
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 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

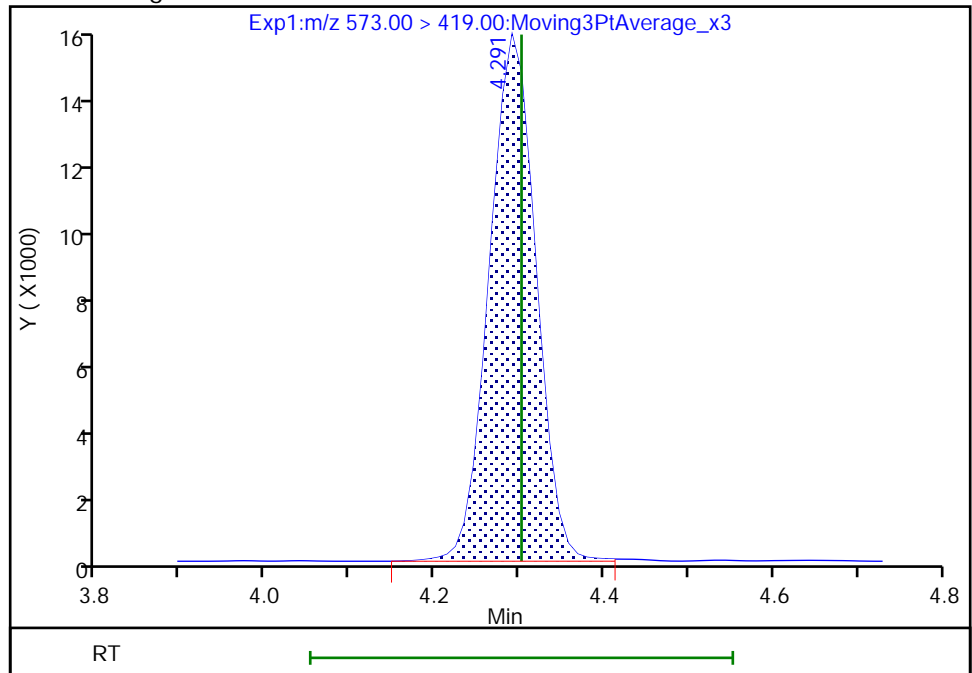
RT: 4.29
Area: 60652
Amount: 1.078977
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 60495
Amount: 1.076184
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:23:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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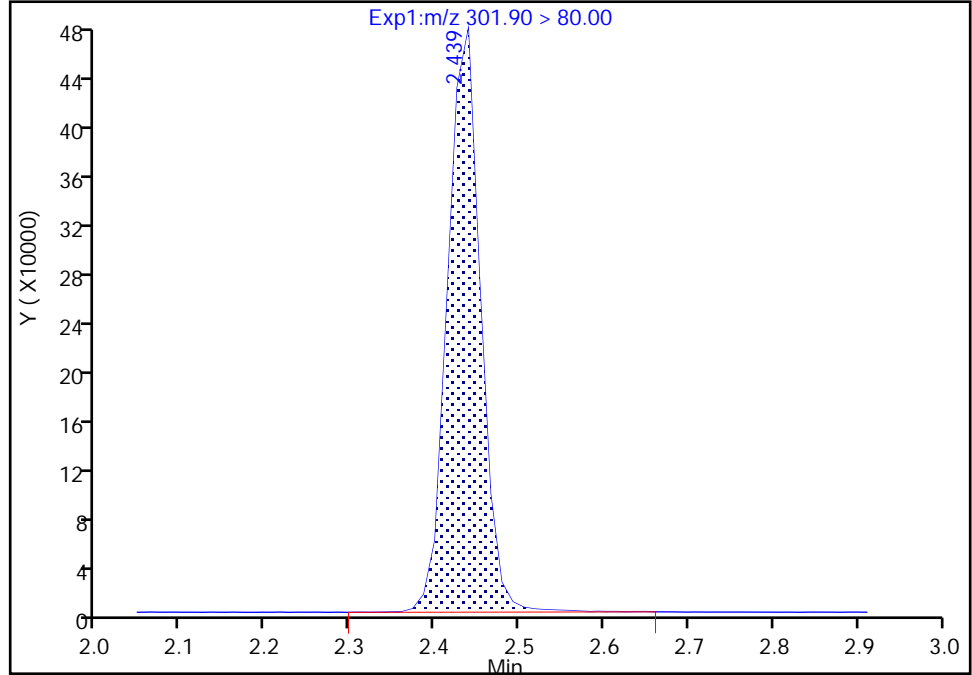
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C08.d
Injection Date: 21-May-2021 23:35:00 Instrument ID: LC812
Lims ID: 200-58440-A-4-A Lab Sample ID: 200-58440-4
Client ID: DGC-4S
Operator ID: lc812tech ALS Bottle#: 35 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

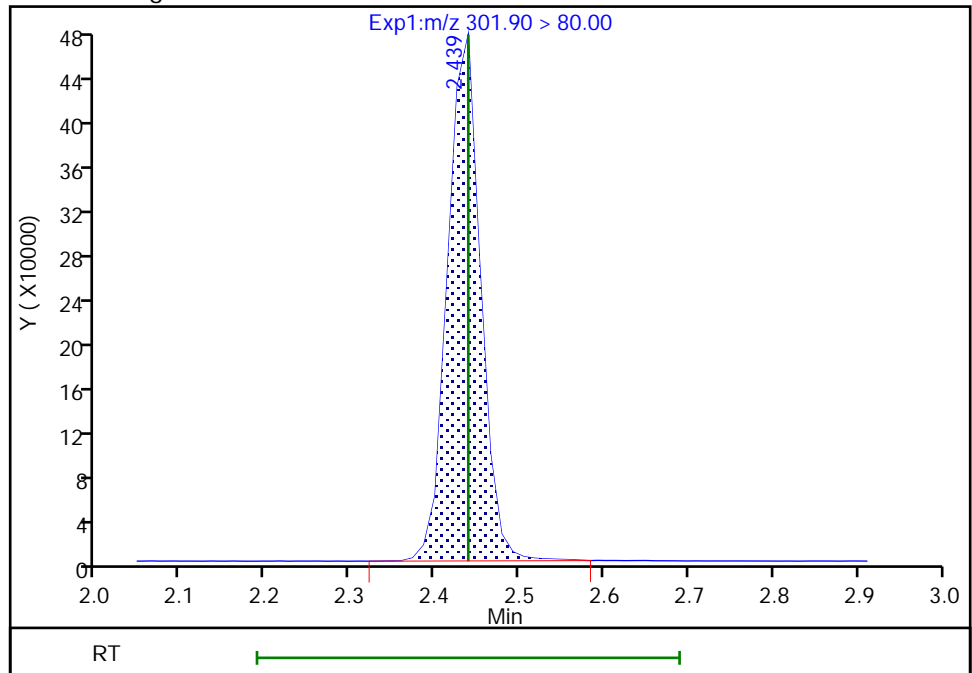
RT: 2.44
Area: 1284671
Amount: 1.098321
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 1281370
Amount: 1.095499
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:22:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: FIELD BLANK Lab Sample ID: 200-58440-5
 Matrix: Water Lab File ID: PA210521C09.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 10:30
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 286.7(mL) Date Analyzed: 05/21/2021 23:43
 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.: 167173 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.4	0.78
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.7	0.41
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.7	0.39
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.21
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.7	0.37
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.7	0.25
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.27
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.30
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.34
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.38
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.55
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.22
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.26
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.20
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.26	J B	1.7	0.25
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.50
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.79
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.65
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.4	0.96
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.34

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: FIELD BLANK Lab Sample ID: 200-58440-5
 Matrix: Water Lab File ID: PA210521C09.d
 Analysis Method: 537 (modified) Date Collected: 05/10/2021 10:30
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 286.7 (mL) Date Analyzed: 05/21/2021 23:43
 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.: 167173 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	92		50-150
STL01892	13C4 PFHpA	95		50-150
STL00990	13C4 PFOA	100		50-150
STL00991	13C4 PFOS	90		50-150
STL00995	13C5 PFNA	98		50-150
STL00992	13C4 PFBA	100		25-150
STL00993	13C2 PFHxA	100		50-150
STL00996	13C2 PFDA	101		50-150
STL00997	13C2 PFUnA	92		50-150
STL00998	13C2 PFDoA	82		50-150
STL01056	13C8 FOSA	63		25-150
STL01893	13C5 PFPeA	98		25-150
STL02116	13C2 PFTeDA	78		50-150
STL02118	d3-NMeFOSAA	100		50-150
STL02117	d5-NEtFOSAA	99		50-150
STL02279	M2-6:2 FTS	99		25-150
STL02280	M2-8:2 FTS	114		25-150
STL02337	13C3 PFBS	93		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
 Lims ID: 200-58440-A-5-A
 Client ID: FIELD BLANK
 Sample Type: Client
 Inject. Date: 21-May-2021 23:43:16 ALS Bottle#: 36 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 200-58440-A-5-A
 Misc. Info.: 200-0046090-009 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 10:44:11
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.082	2.091	-0.009	0.593	1591064	1.25	100	12665	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.100	-0.009	1.004	9176	0.007711		1.4		M
D 3 13C5 PFPeA	267.90 > 223.00	2.413	2.426	-0.013	0.687	1125951	1.22	97.5	3630	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.413	2.426	-0.013	1.000	4951	0.005437		0.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.426	2.439	-0.013	0.691	1244459	1.08	92.7	230721	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.439	2.439	0.0	1.005	3691	0.003346	Target=2.19	6.6		
298.90 > 99.00	2.439	2.439	0.0	1.005	2146		1.72(1.09-3.28)	1.6		M
D 7 13C2 PFHxA	315.00 > 270.00	2.770	2.782	-0.012	0.789	1252510	1.25	99.9	3116	
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.782	2.782	0.0	1.004	2339	0.002306	Target=12.12	0.6		RM
313.00 > 119.00	2.770	2.782	-0.012	1.000	101		23.16(6.06-18.18)	0.3		M
D 11 18O2 PFHxS	403.00 > 84.00	3.143	3.154	-0.011	0.895	971137	1.08	91.6	2975	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.143	3.154	-0.011	1.000	4569	0.005019	Target=4.23	33.0		M
399.00 > 99.00	3.132	3.154	-0.022	0.997	1279		3.57(2.12-6.35)	2.1		M
D 9 13C4 PFHpA	367.00 > 322.00	3.154	3.154	0.0	0.898	1193642	1.19	95.3	2452	M
10 Perfluoroheptanoic acid										RM
363.00 > 319.00	3.143	3.164	-0.021	0.997	2106	0.002187	Target=3.49	1.0		RM
363.00 > 169.00	3.132	3.164	-0.032	0.993	340		6.19(1.75-5.24)	1.0		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.501	3.510	-0.009	0.997	139012	1.17		98.6	533	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.501	3.510	-0.009	1.000	65	0.000619		1.8		M
D 14 13C4 PFOA										
417.00 > 372.00	3.510	3.519	-0.009	1.000	1267378	1.25		99.9	3283	
* 62 13C2 PFOA										
415.00 > 370.00	3.510	3.519	-0.009		1267430	1.25			197	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.519	3.519	0.0	1.003	1992	0.001913	Target=2.53	0.8		M
413.00 > 169.00	3.510	3.519	-0.009	1.000	1299		1.53(1.27-3.80)	4.0		M
D 18 13C4 PFOS										
503.00 > 80.00	3.824	3.836	-0.012	1.090	694430	1.07		89.9	1777	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.003	4742	0.007579	Target=6.09	3.2		M
499.00 > 99.00	3.824	3.836	-0.012	1.000	1036		4.58(3.04-9.13)	2.2		M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.847	3.858	-0.011	1.000	1005	0.001140	Target=6.34	0.5		M
463.00 > 169.00	3.858	3.858	0.0	1.003	227		4.43(3.17-9.51)	3.5		M
D 19 13C5 PFNA										
468.00 > 423.00	3.847	3.858	-0.011	1.096	1143490	1.22		97.8	2564	
D 23 13C2 PFDA										
515.00 > 470.00	4.148	4.160	-0.012	1.182	1038767	1.27		101	3003	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.148	4.160	-0.012	1.000	1081	0.001243	Target=7.79	1.0		M
513.00 > 169.00	4.137	4.160	-0.023	0.997	270		4.00(3.90-11.69)	2.6		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.171	-0.011	1.185	166238	1.37		114	1010	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.182	4.171	0.011	1.005	45	0.000646		1.8		M
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.225	-0.011	1.201	912900	0.7892		63.1	2570	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.224	4.225	-0.001	1.002	1583	0.002216		13.7		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.291	4.302	-0.011	1.223	69185	1.25		99.8	806	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.291	4.302	-0.011	1.000	129	0.002651		1.9		M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.391	4.391	0.0	1.148	155	0.000423	Target=2.87	2.7		RM
599.00 > 99.00	4.380	4.391	-0.011	1.145	146		1.06(1.44-4.31)	1.2		M
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.424	4.424	0.0	1.002	979	0.001640	Target=7.94	1.6		RM
563.00 > 169.00	4.456	4.424	0.032	1.010	74		13.23(3.97-11.91)	1.2		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.424	-0.011	1.257	754346	1.15		91.8	2535	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.434	-0.010	1.260	68535	1.23		98.5	780	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.434	4.434	0.0	1.002	194	-0.006927			1.9	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.643	4.653	-0.010	1.323	706935	1.03		82.2	2584	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.002	800	0.001411	Target=5.94		0.5	M
613.00 > 169.00	4.653	4.653	0.0	1.002	193		4.15(2.97-8.92)		4.2	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.856	4.867	-0.011	1.046	461	0.001008	Target=3.97		0.5	RM
663.00 > 169.00	4.877	4.867	0.010	1.050	243		1.90(1.99-5.96)		4.5	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.043	5.063	-0.020	1.437	491878	0.9768		78.1	3598	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.043	5.063	-0.020	1.000	191	0.002374	Target=1.01		4.6	M
713.00 > 219.00	5.043	5.063	-0.020	1.000	142		1.35(0.51-1.52)		5.6	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d

Injection Date: 21-May-2021 23:43:16

Instrument ID: LC812

Lims ID: 200-58440-A-5-A

Lab Sample ID: 200-58440-5

Client ID: FIELD BLANK

Operator ID: lc812tech

ALS Bottle#: 36

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

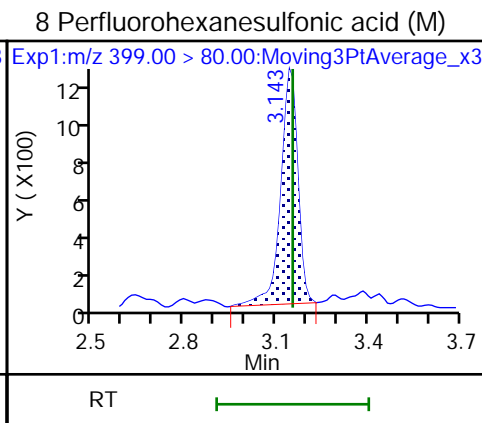
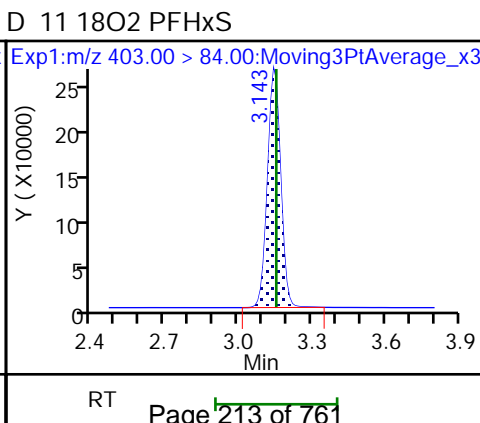
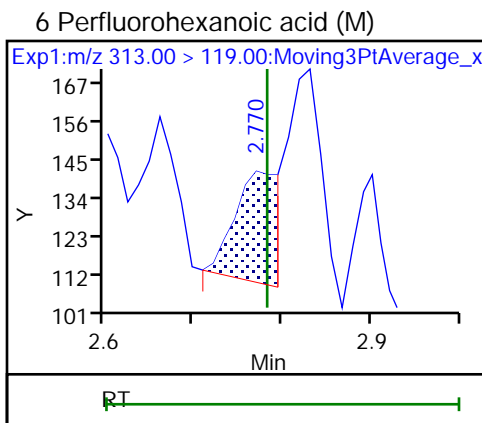
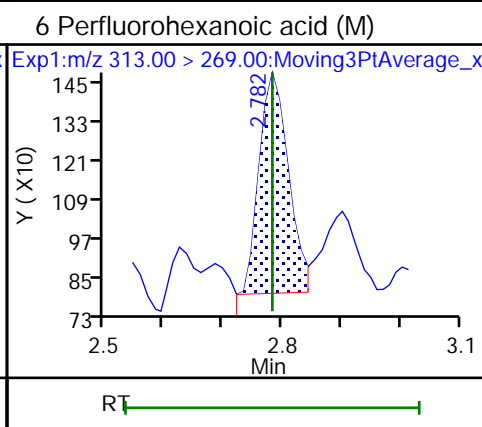
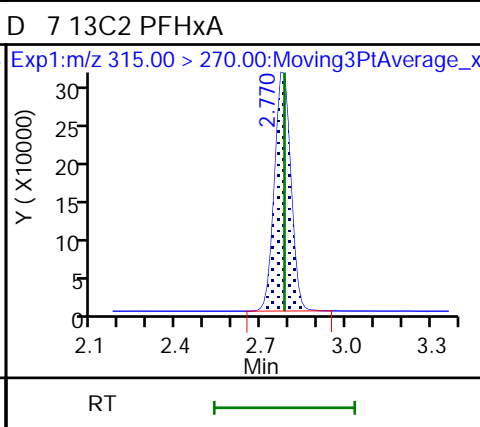
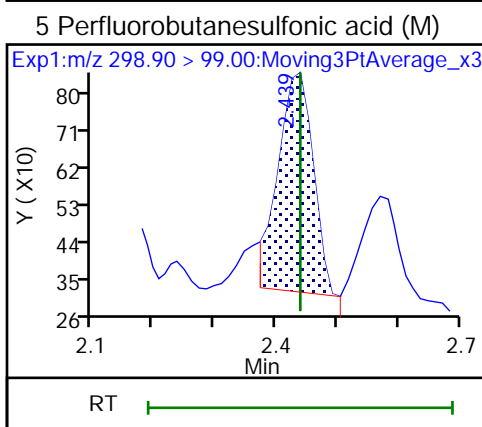
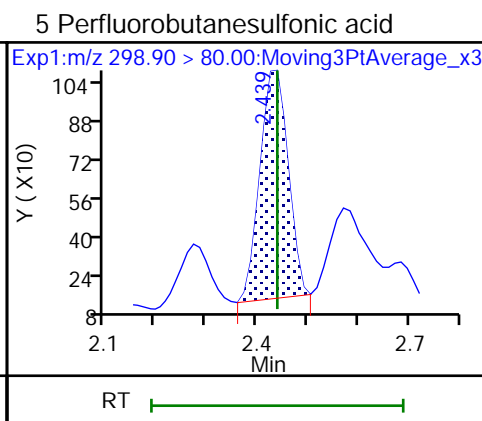
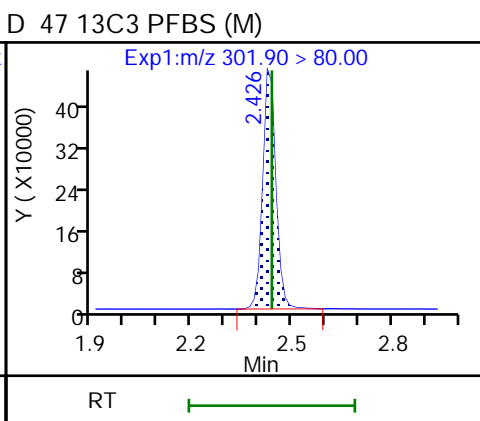
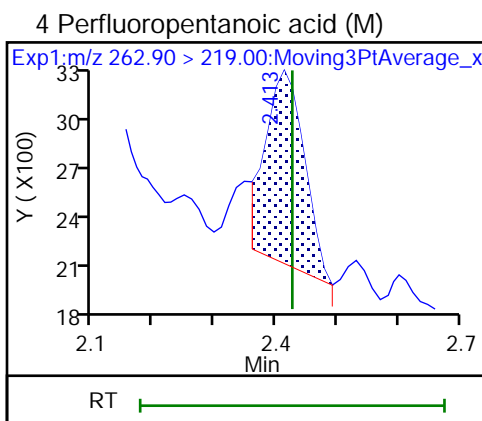
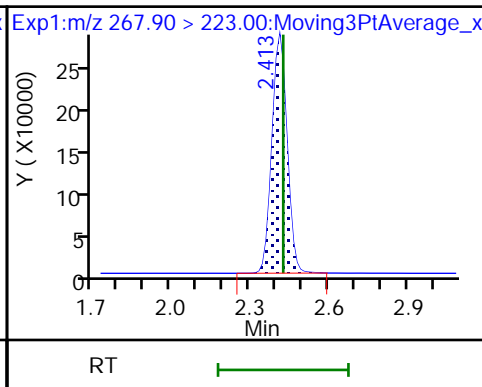
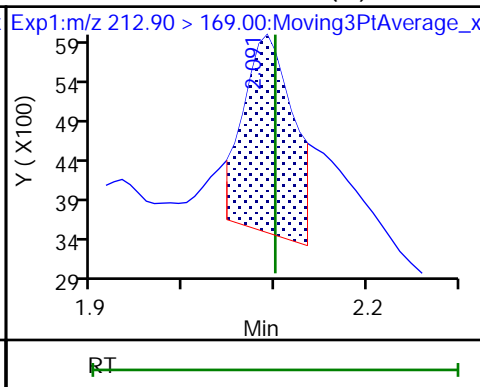
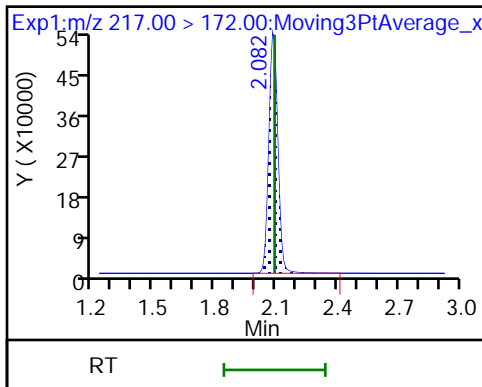
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

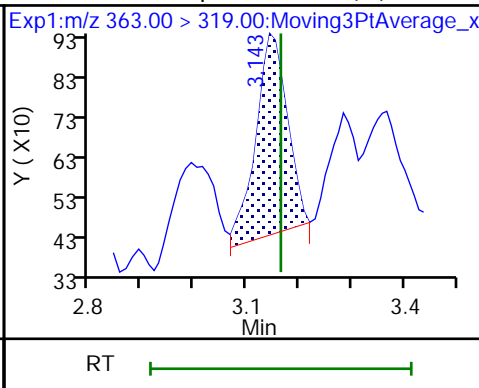
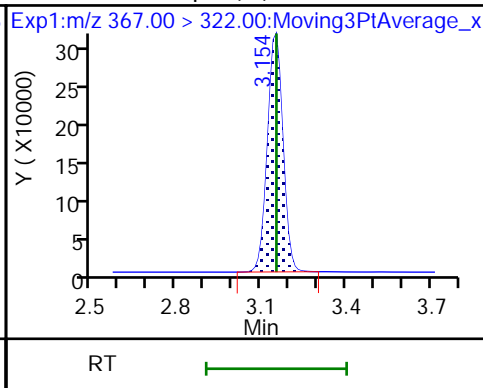
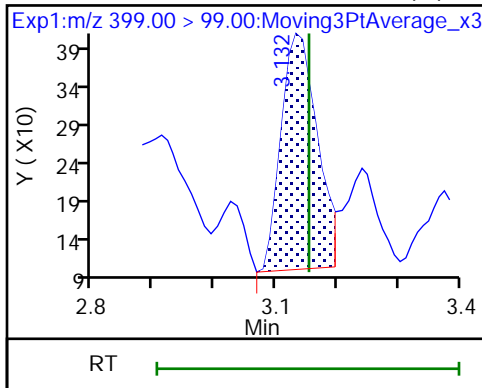
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA (M)

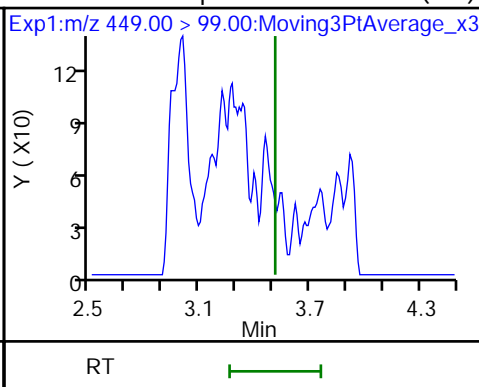
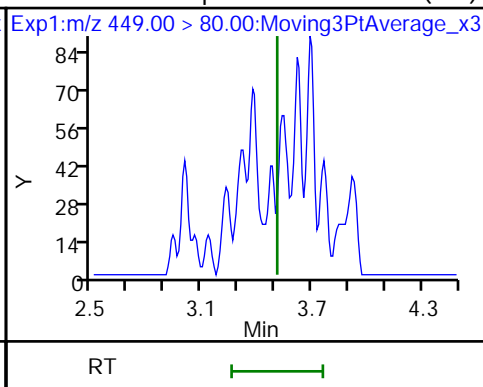
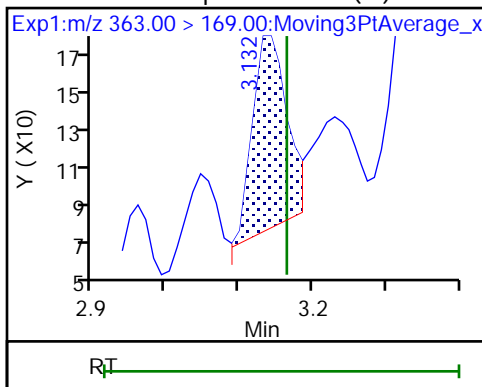
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (ND)

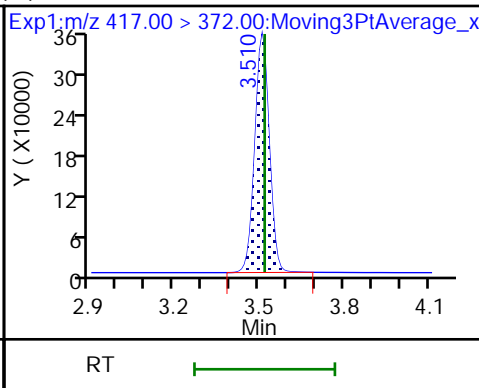
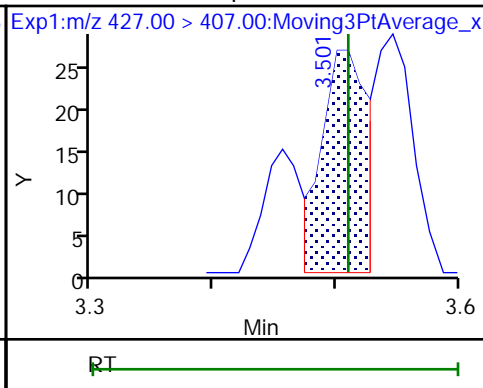
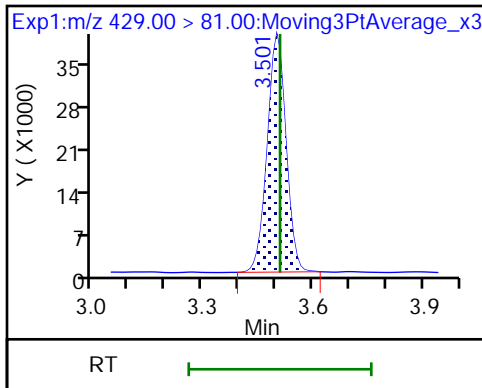
16 Perfluoroheptanesulfonic acid (ND)



D 12 M2-6:2 FTS

13 1H,1H,2H,2H-perfluorooctanesulfo (M)

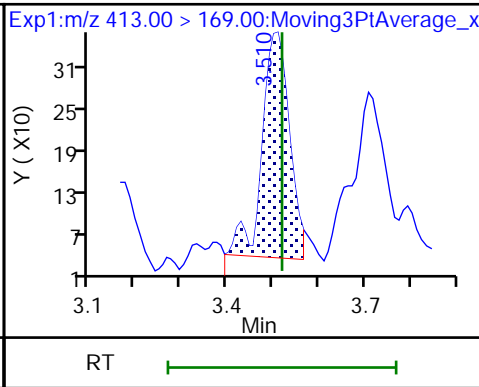
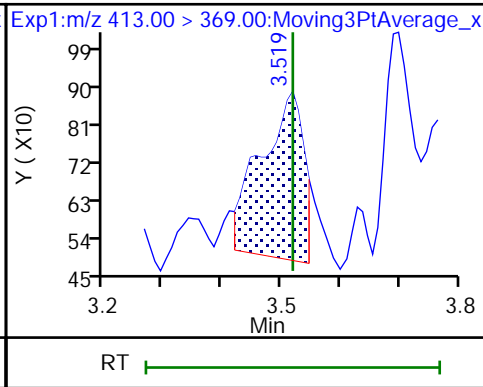
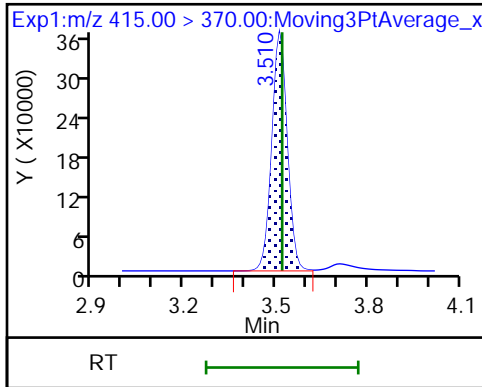
14 13C4 PFOA



* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

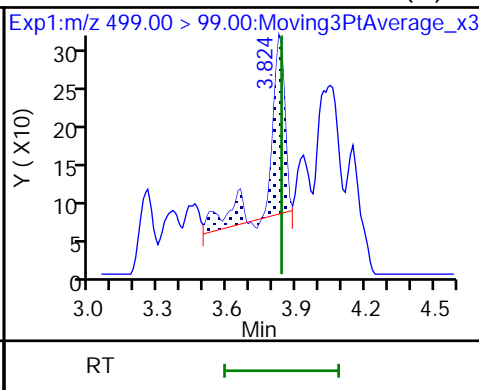
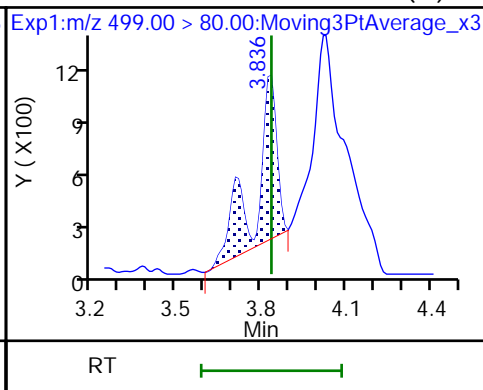
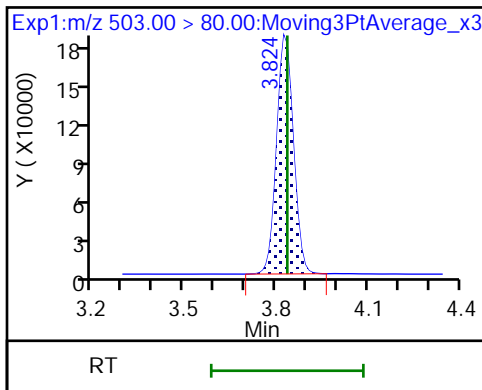
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

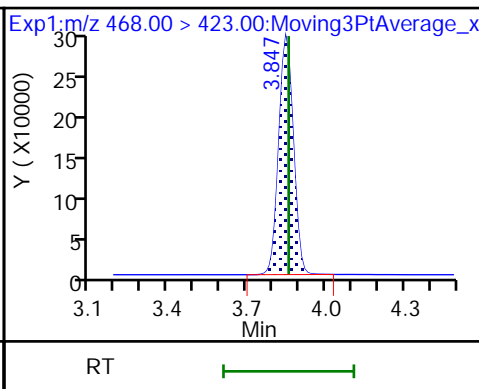
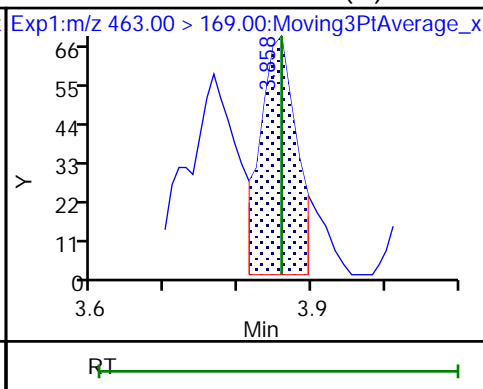
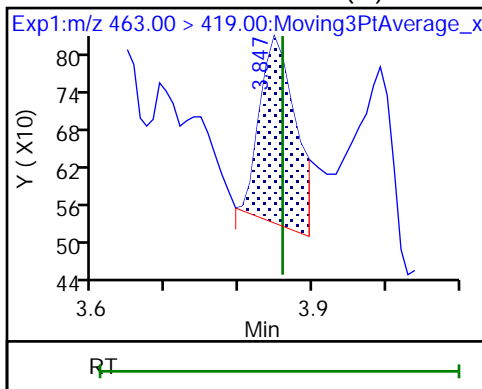
17 Perfluorooctanesulfonic acid (M)



20 Perfluorononanoic acid (M)

20 Perfluorononanoic acid (M)

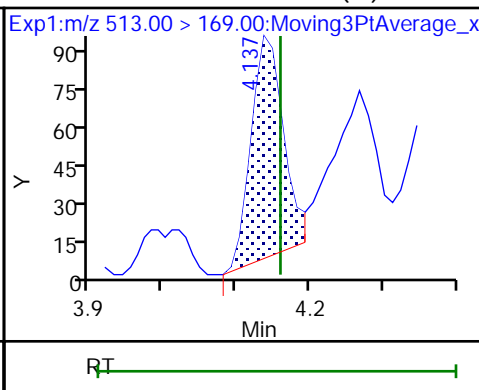
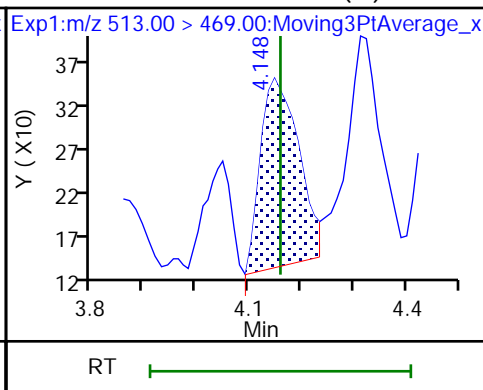
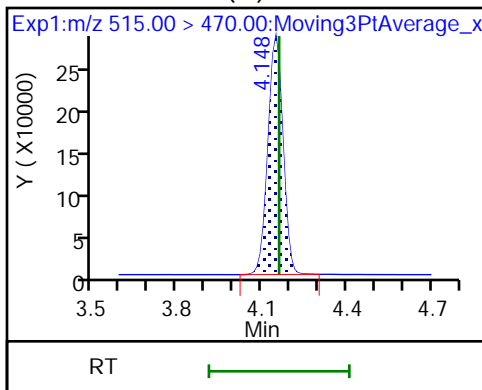
D 19 13C5 PFNA



D 23 13C2 PFDA (M)

24 Perfluorodecanoic acid (M)

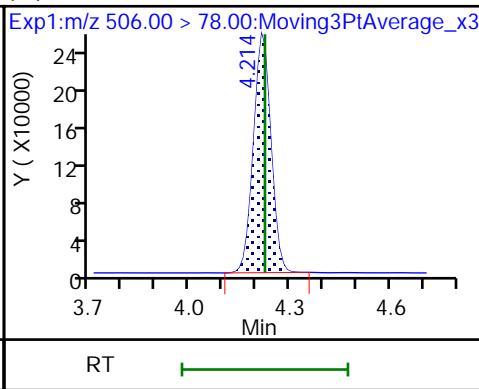
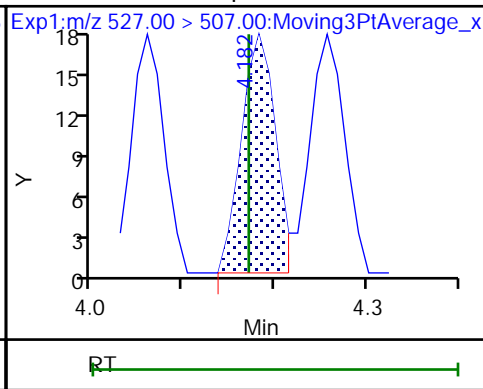
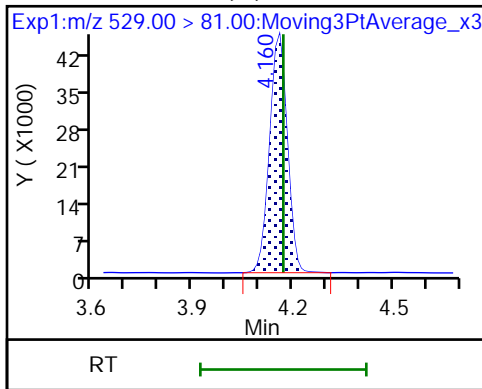
24 Perfluorodecanoic acid (M)



D 26 M2-8:2 FTS (M)

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

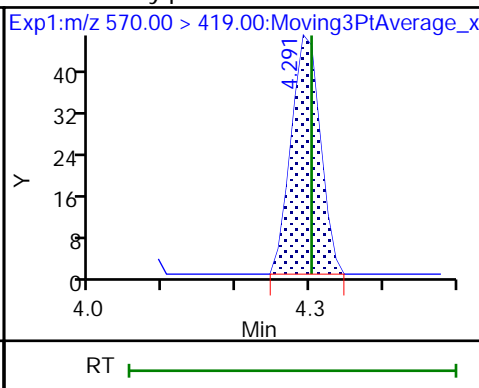
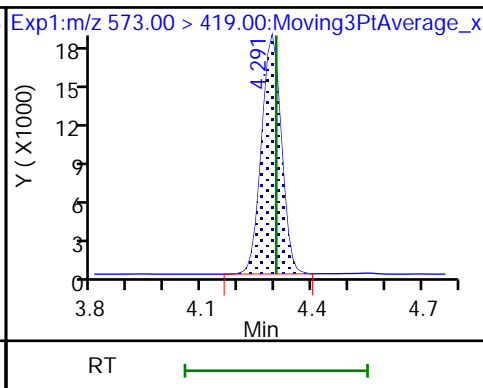
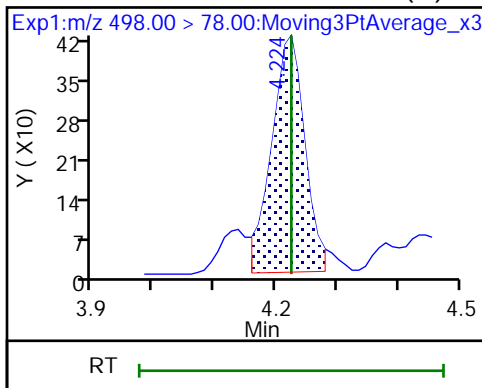
D 21 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

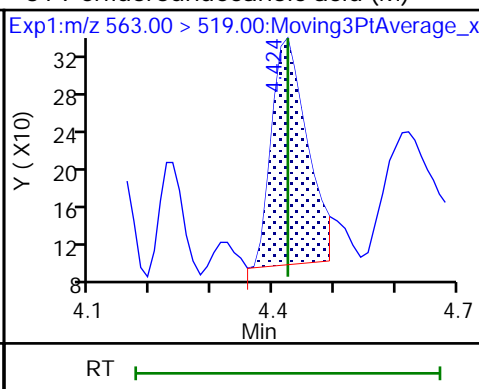
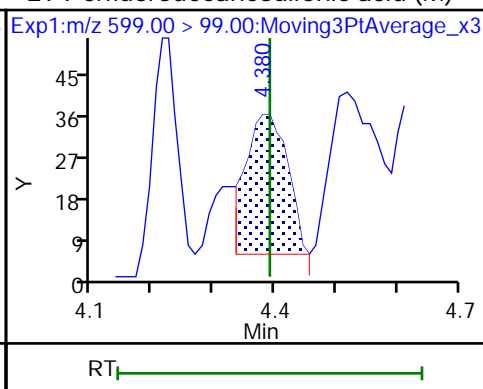
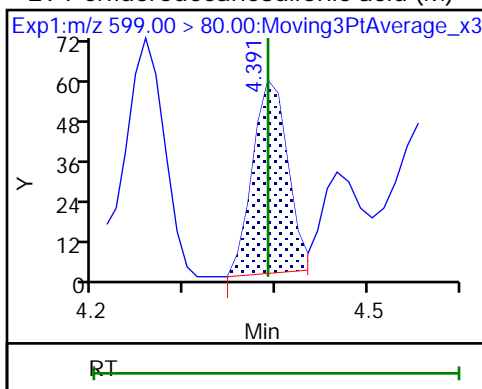
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

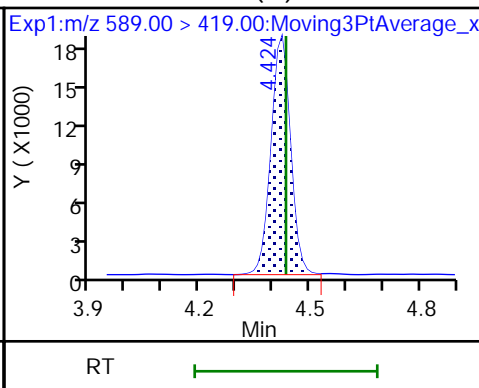
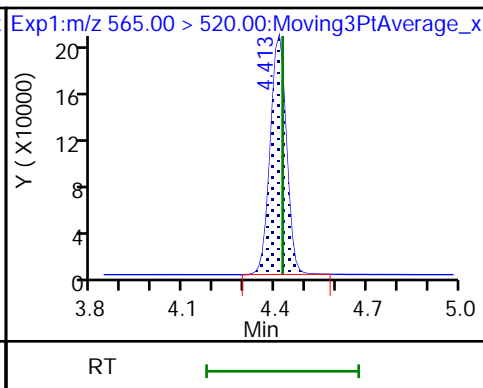
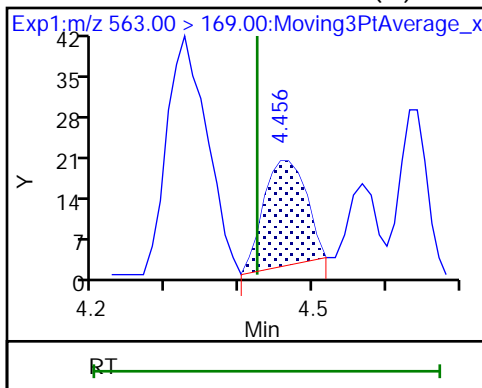
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 30 13C2 PFUnA

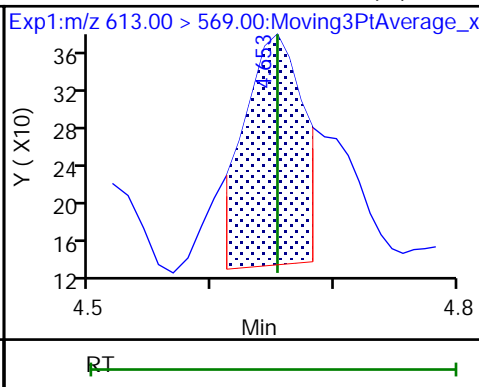
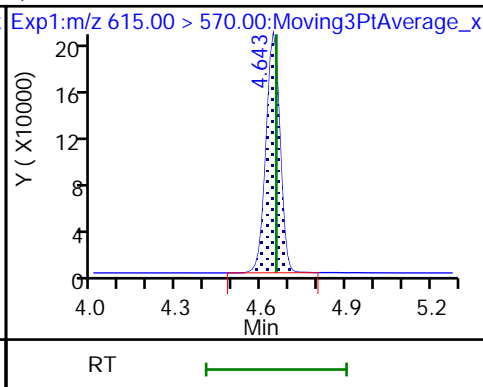
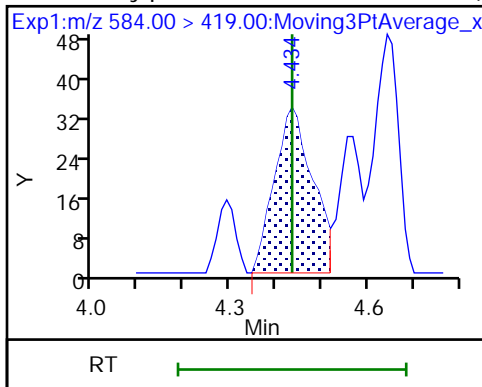
D 32 d5-NEtFOSAA (M)

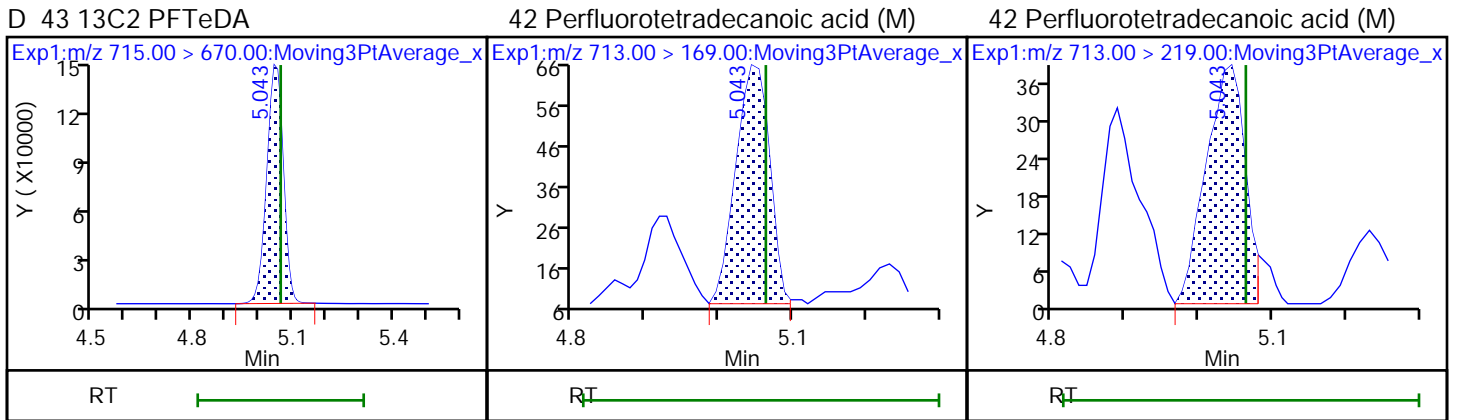
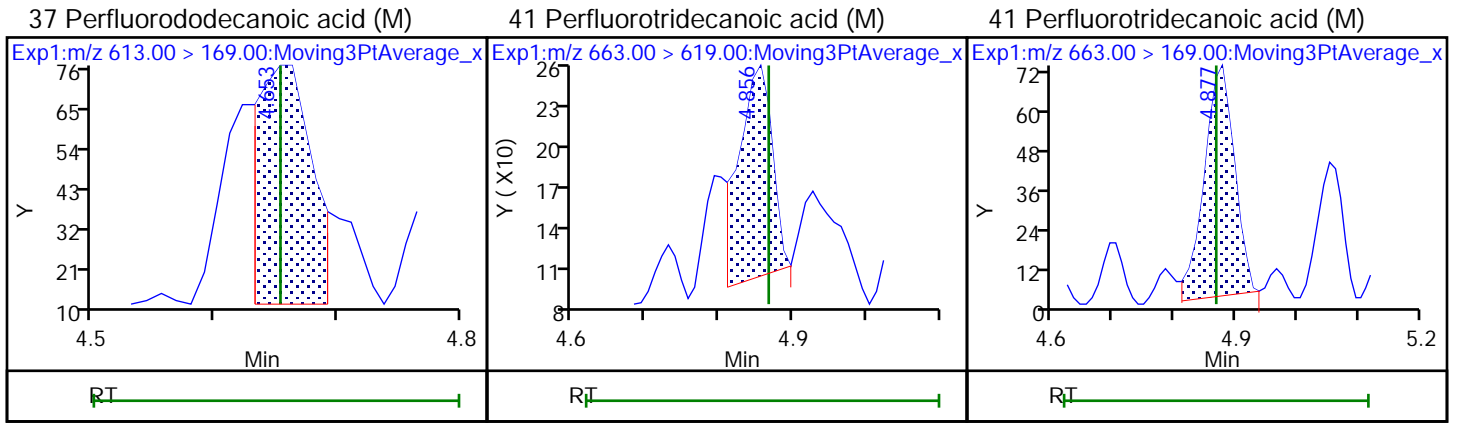


33 N-ethylperfluorooctanesulfonamid (M)

36 13C2 PFDoA

37 Perfluorododecanoic acid (M)





Euofins TestAmerica, Burlington

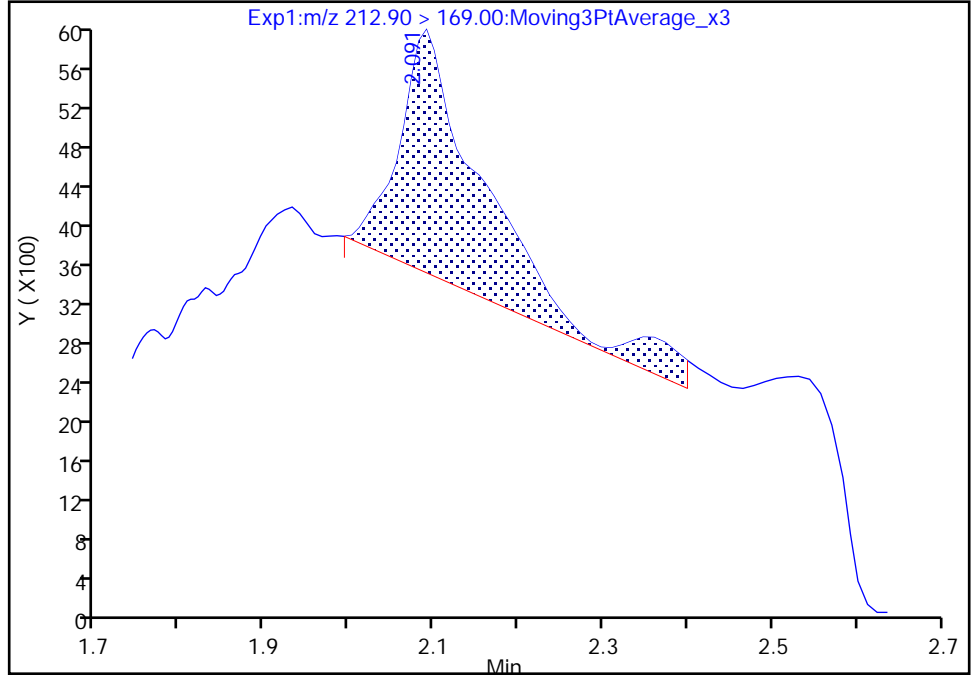
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Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

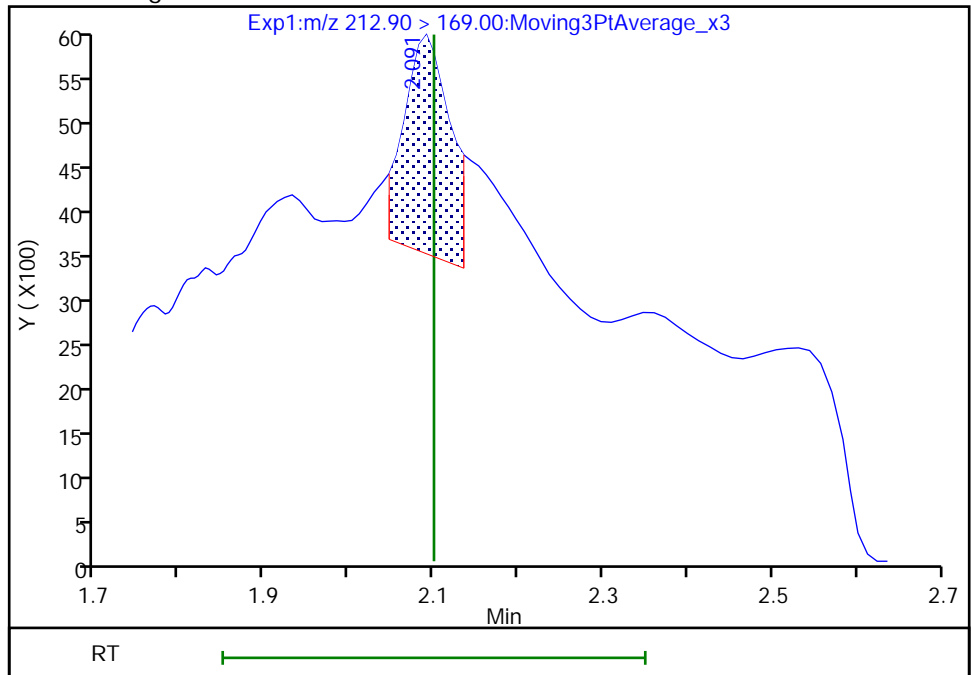
RT: 2.09
Area: 17676
Amount: 0.014854
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 9176
Amount: 0.007711
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:33:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 218 of 761

Eurofins TestAmerica, Burlington

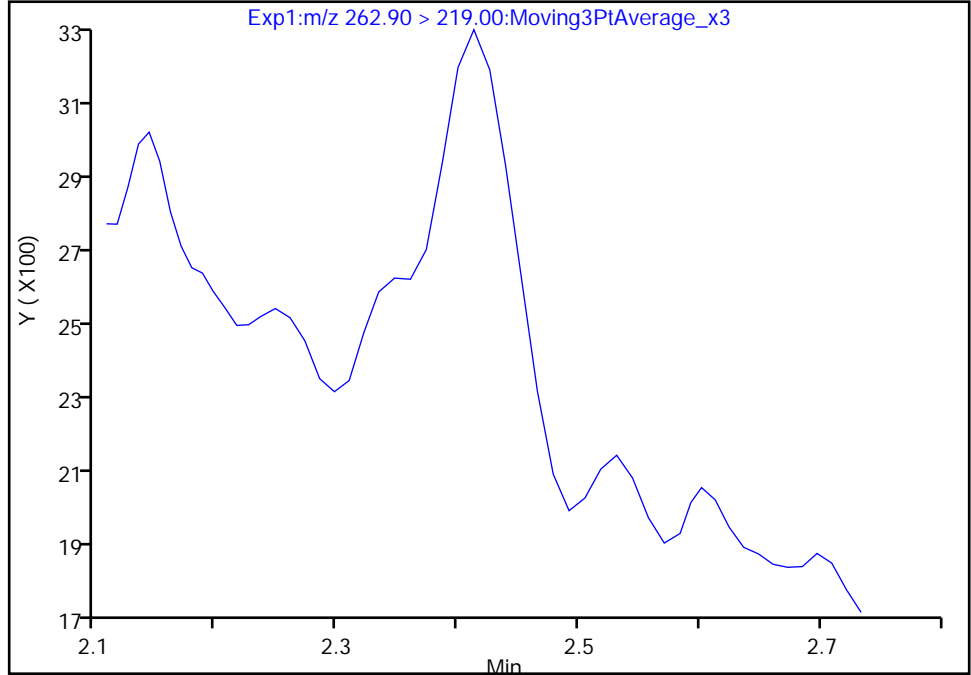
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

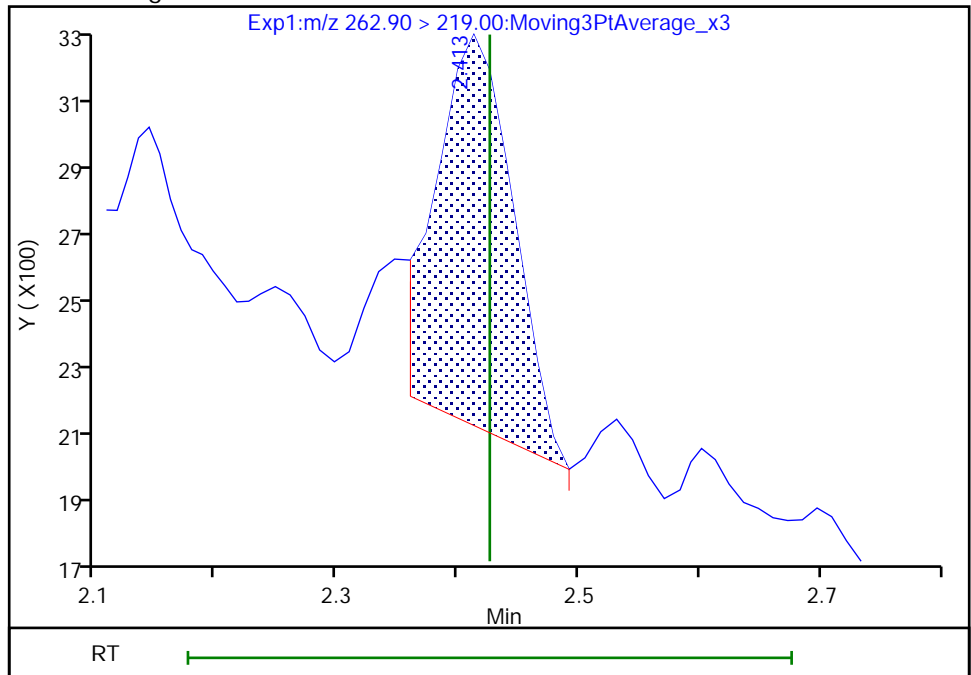
Not Detected
Expected RT: 2.43

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 4951
Amount: 0.005437
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:34:18
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

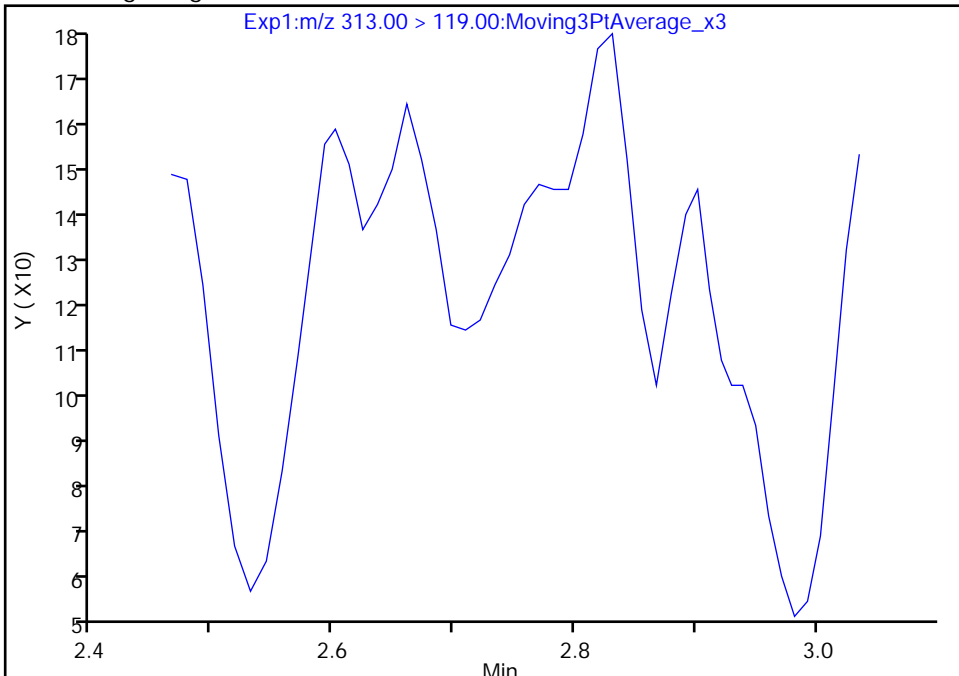
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Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

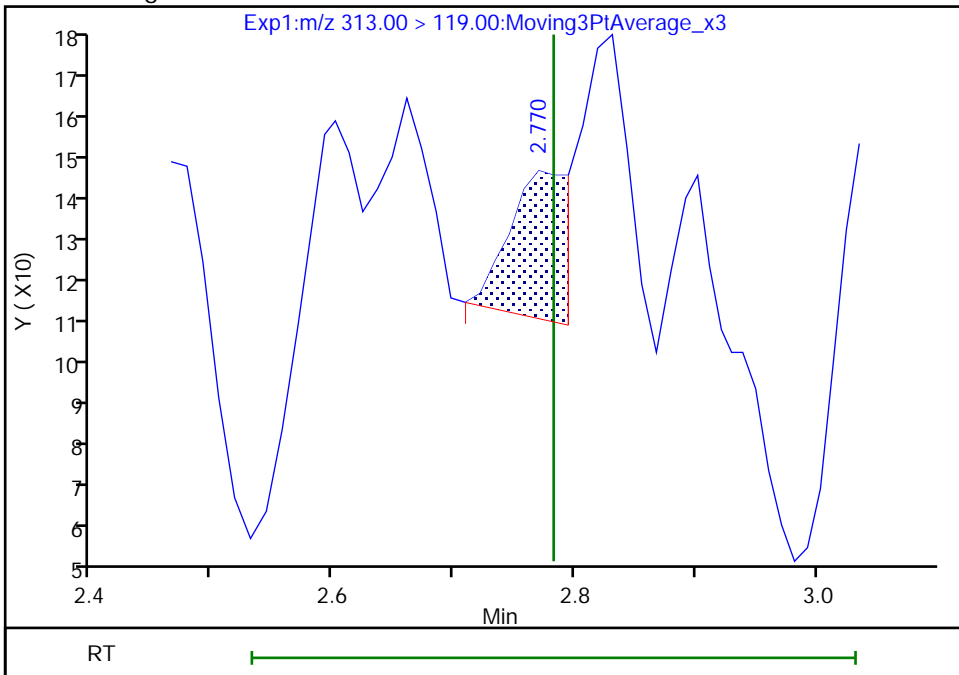
Not Detected
Expected RT: 2.78

Processing Integration Results



RT: 2.77
Area: 101
Amount: 0.002306
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:35:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

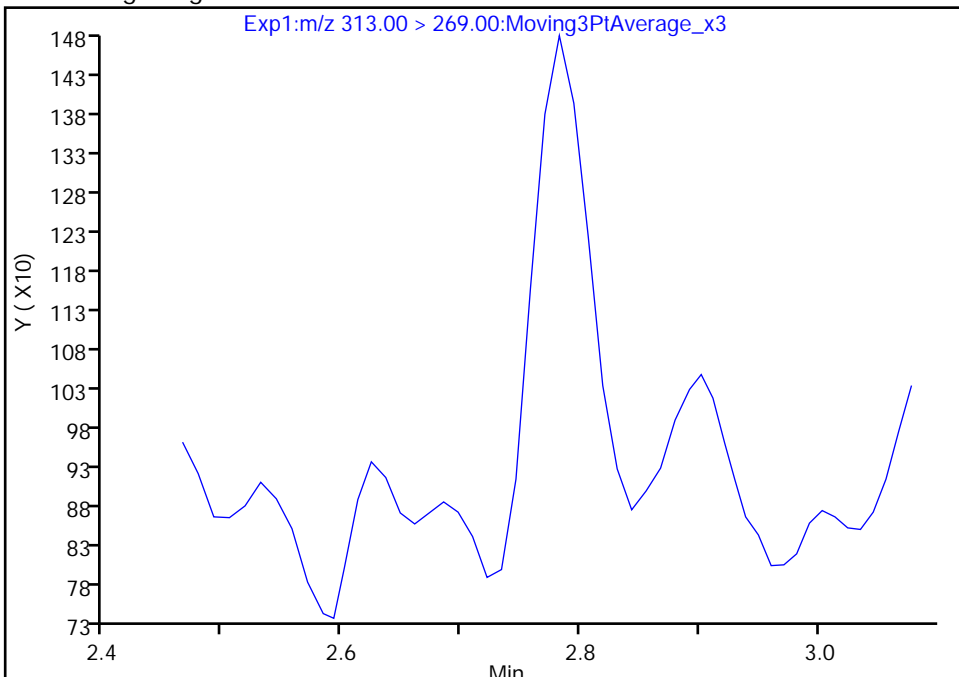
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

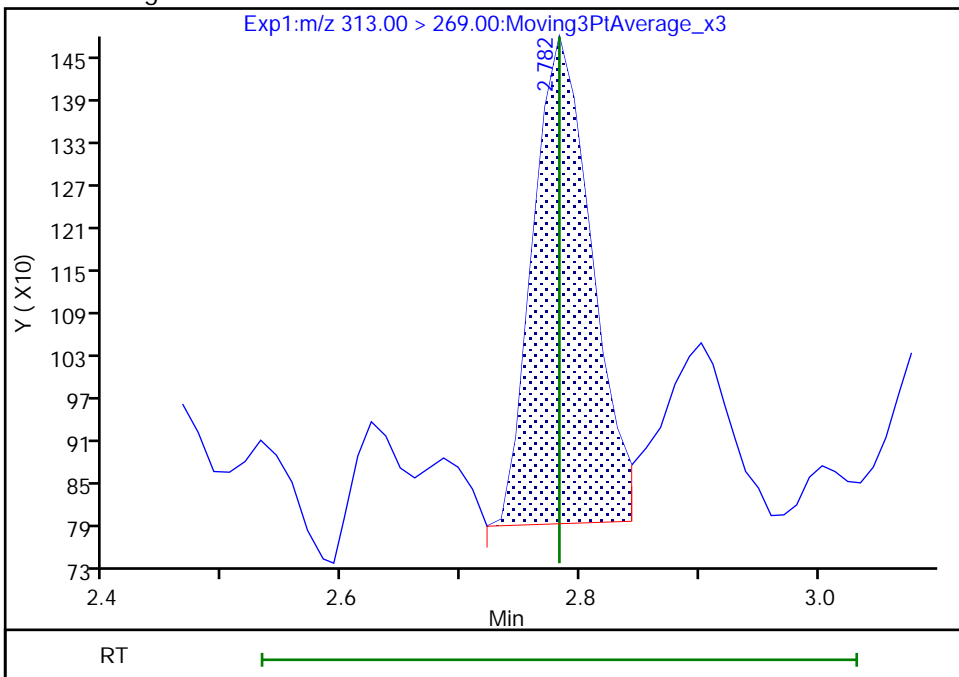
Not Detected
Expected RT: 2.78

Processing Integration Results



Manual Integration Results

RT: 2.78
Area: 2339
Amount: 0.002306
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:35:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

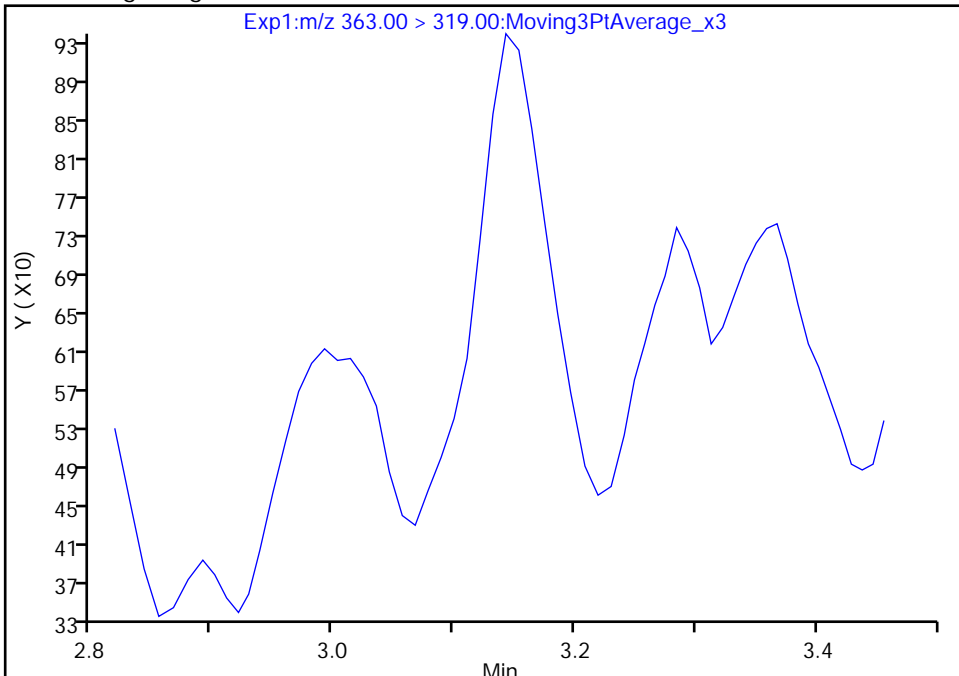
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Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

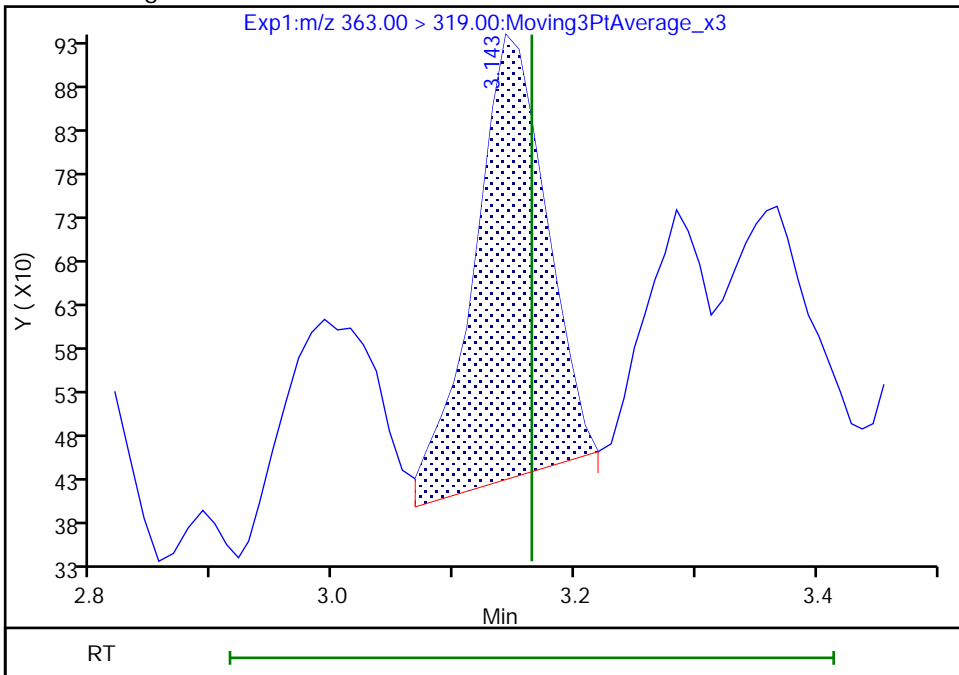
Signal: 1

Not Detected
Expected RT: 3.16

Processing Integration Results



Manual Integration Results



RT: 3.14
Area: 2106
Amount: 0.002187
Amount Units: ng/ml

Reviewer: nampitakw, 24-May-2021 10:35:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

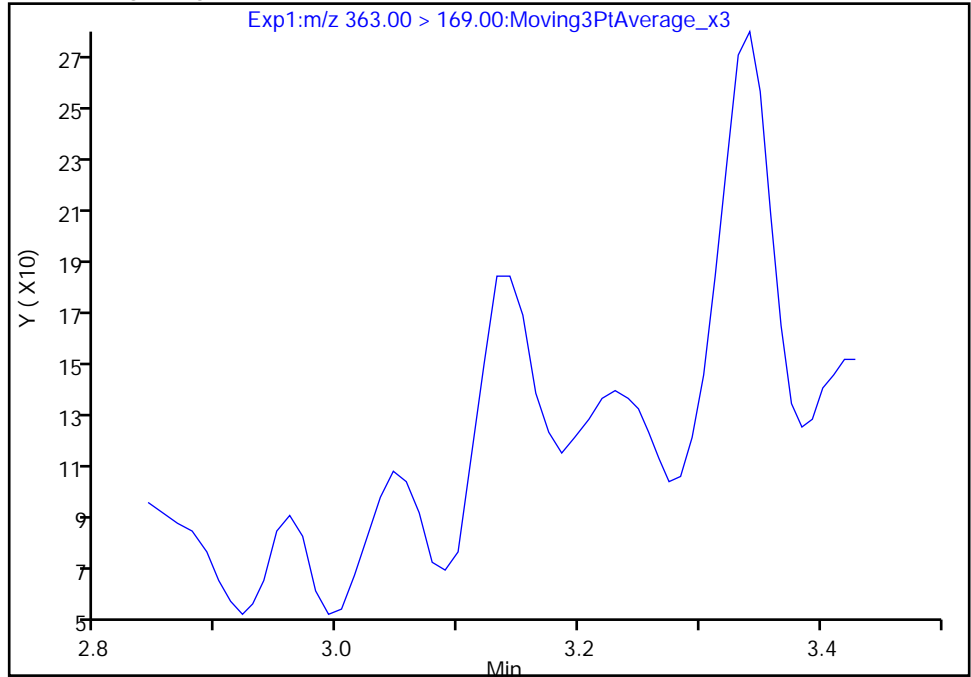
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

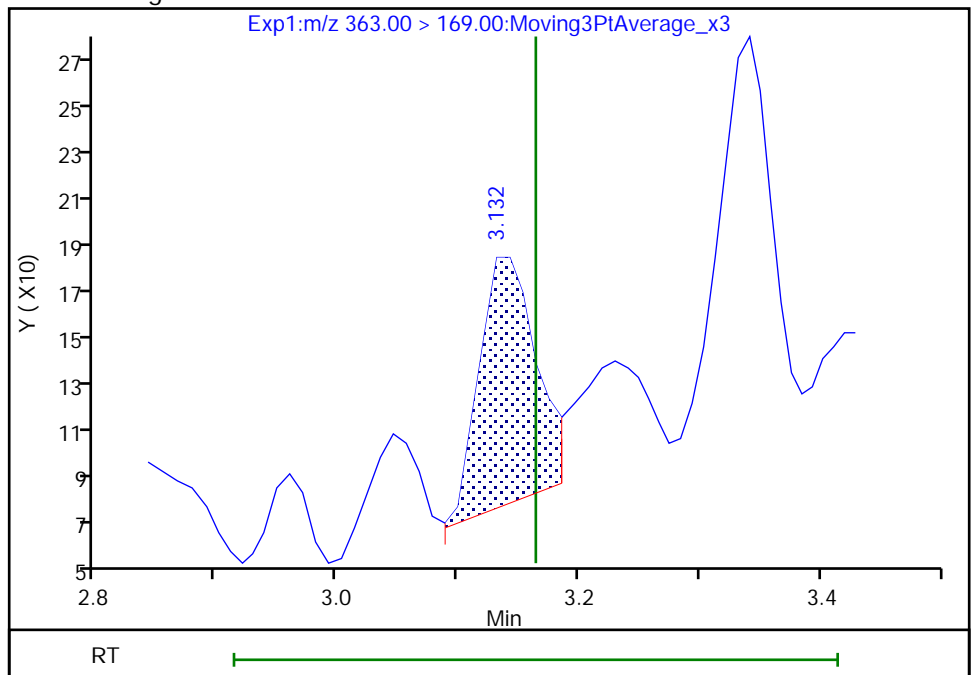
Not Detected
Expected RT: 3.16

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 340
Amount: 0.002187
Amount Units: ng/ml



Reviewer: deannd, 24-May-2021 16:36:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

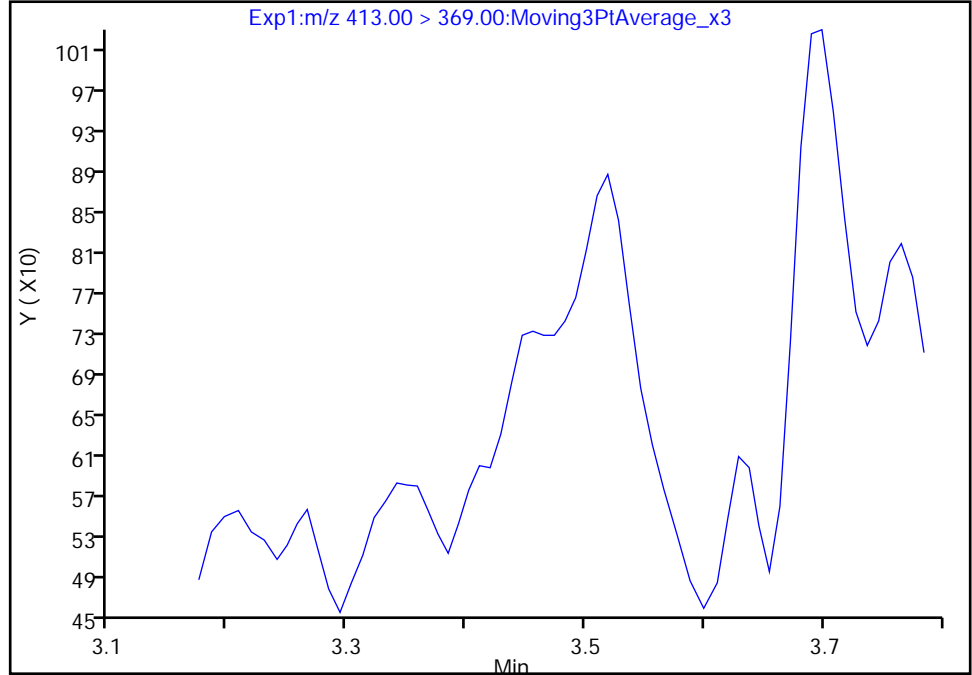
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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: 1

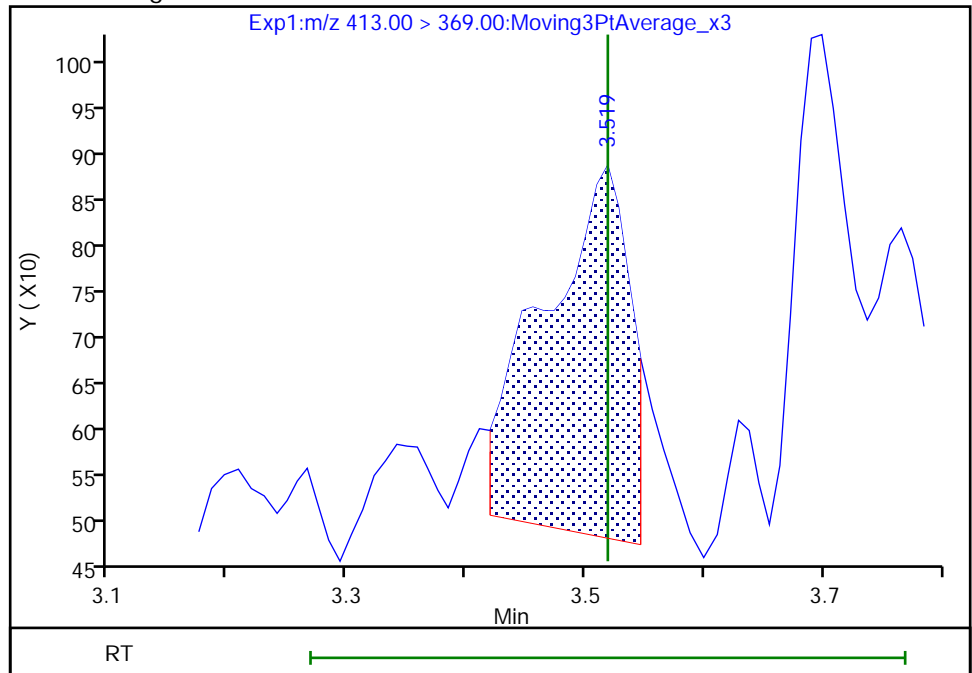
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.52
Area: 1992
Amount: 0.001913
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:38:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

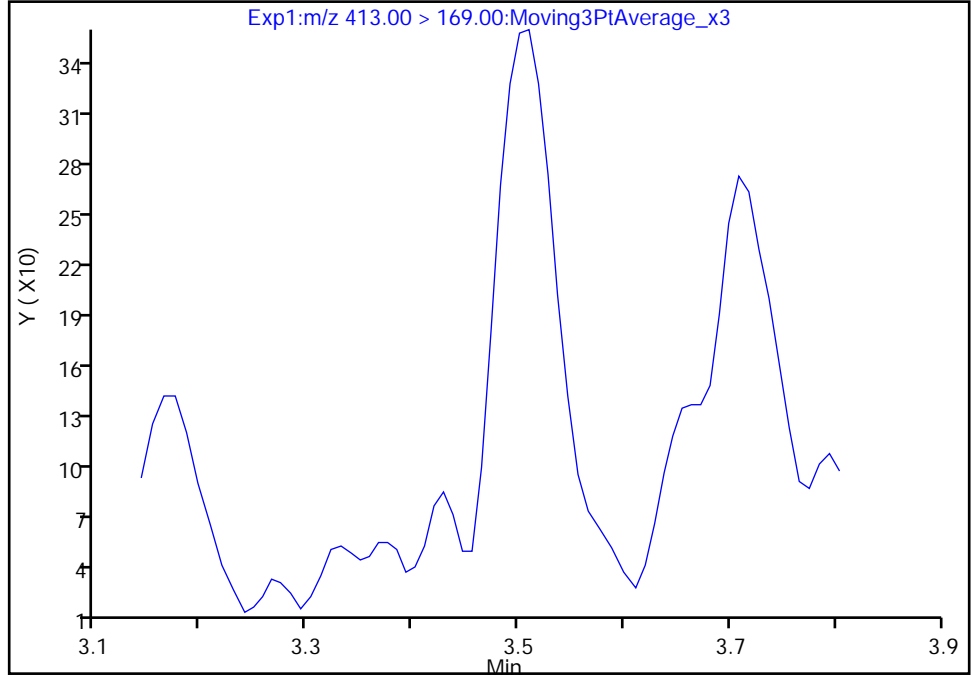
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

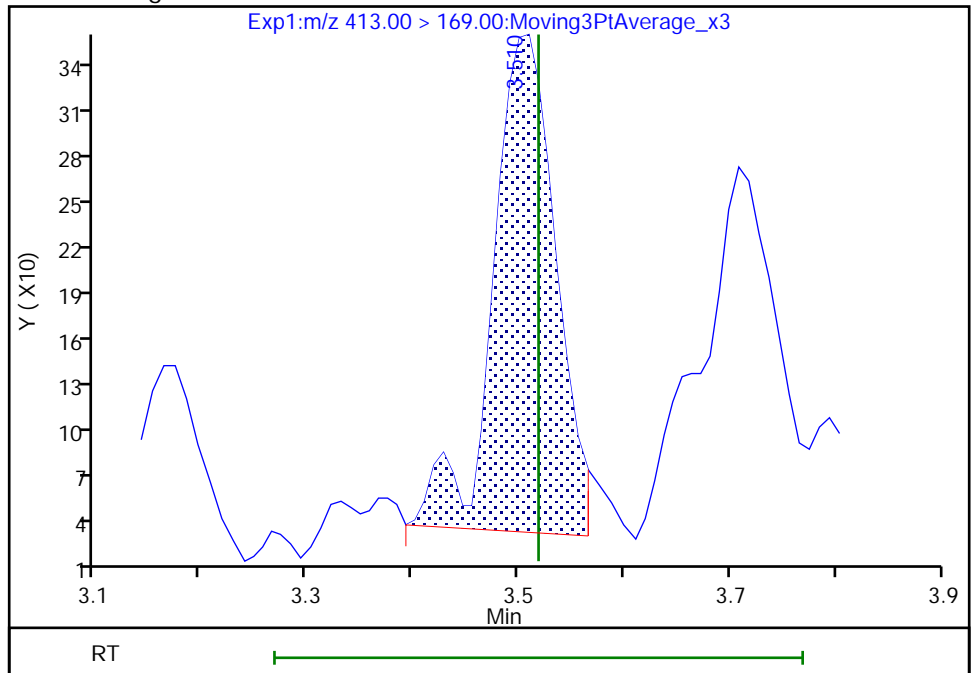
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 1299
Amount: 0.001913
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:38:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

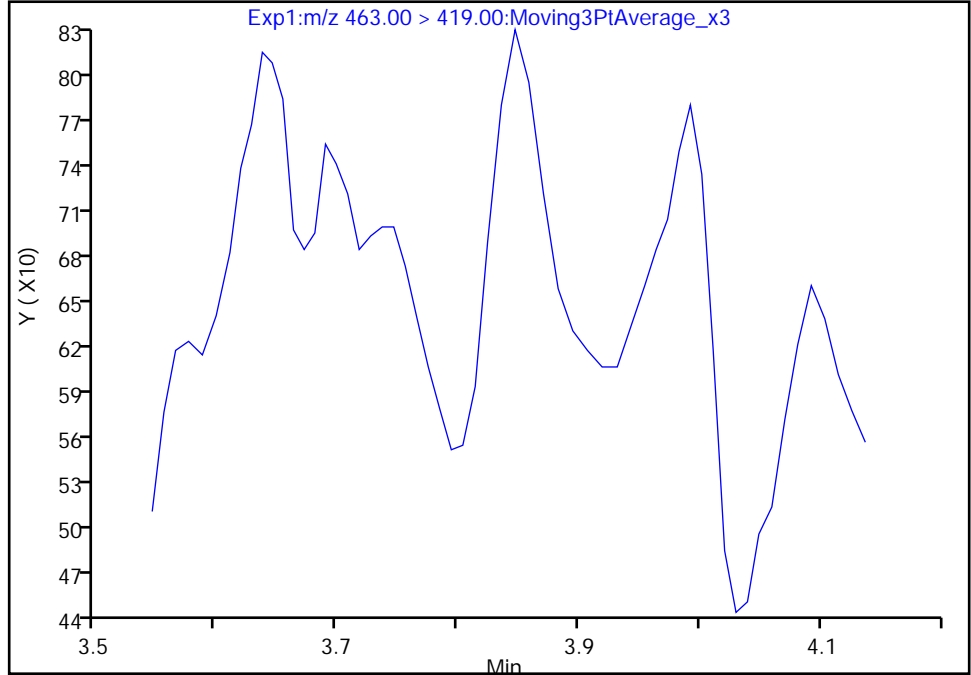
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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: 1

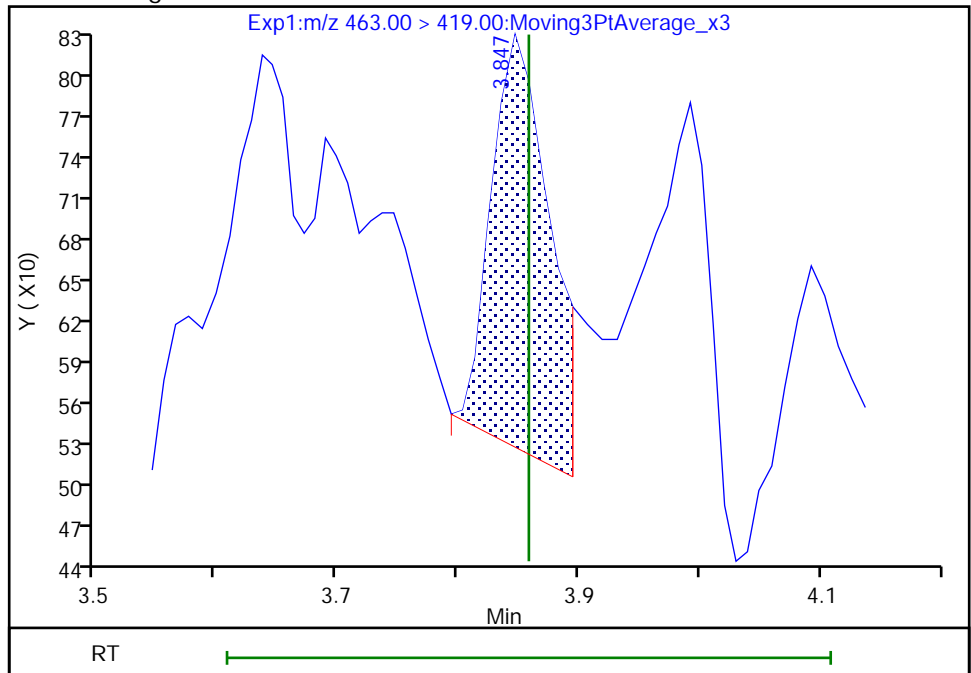
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.85
Area: 1005
Amount: 0.001140
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:40:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

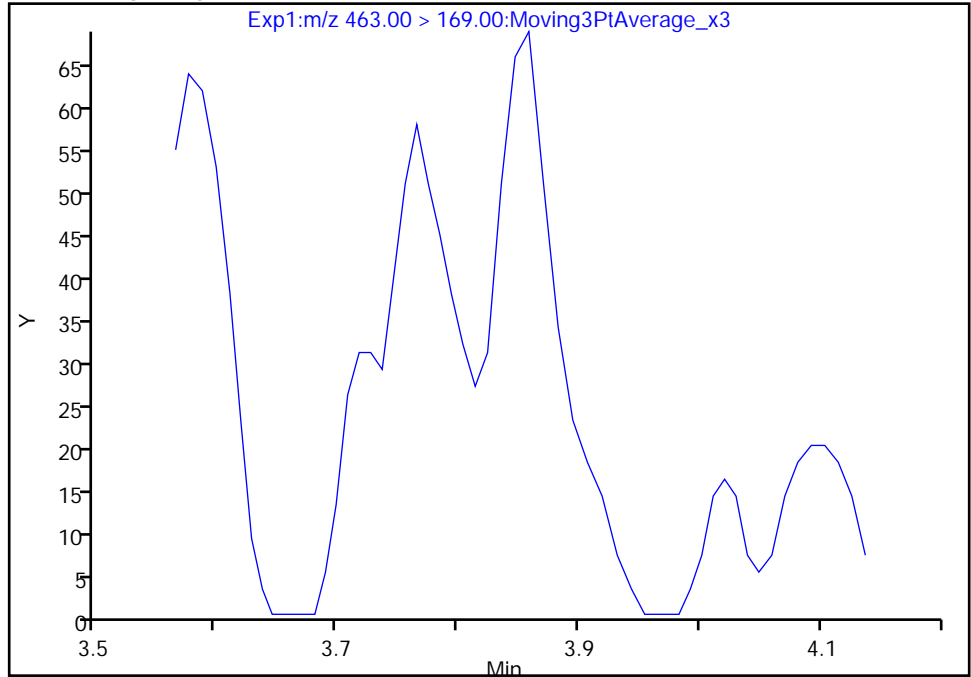
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Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

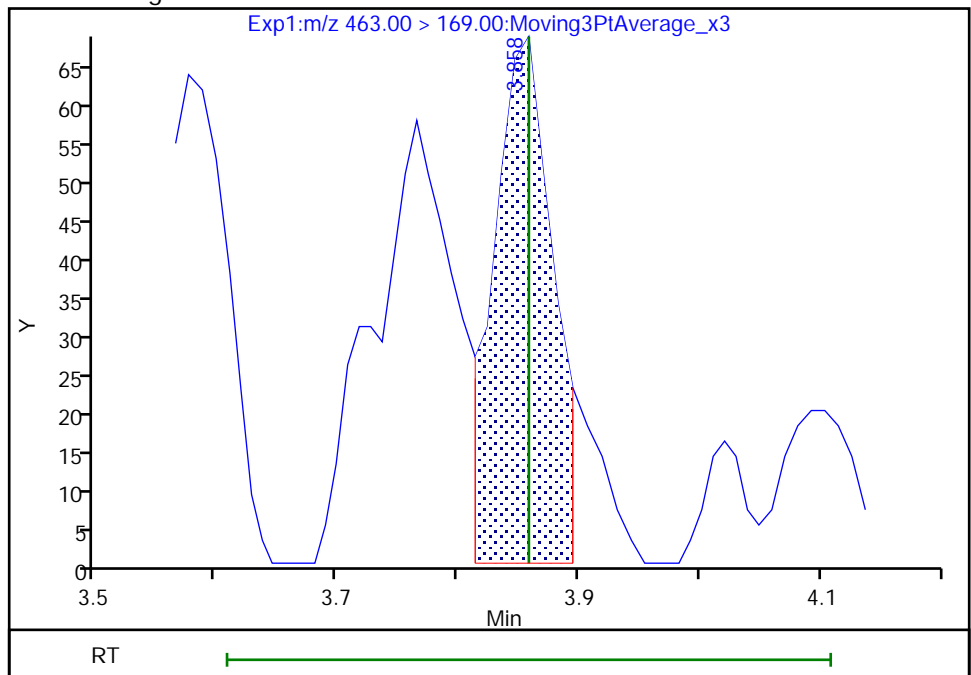
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.86
Area: 227
Amount: 0.001140
Amount Units: ng/ml



Reviewer: nampitkw, 24-May-2021 10:40:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

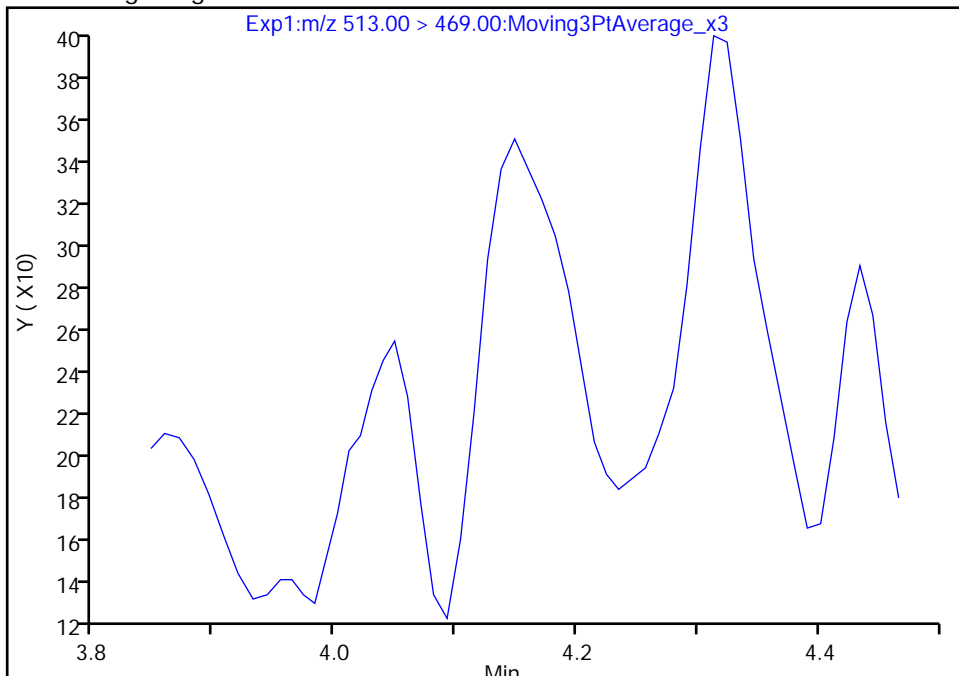
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Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

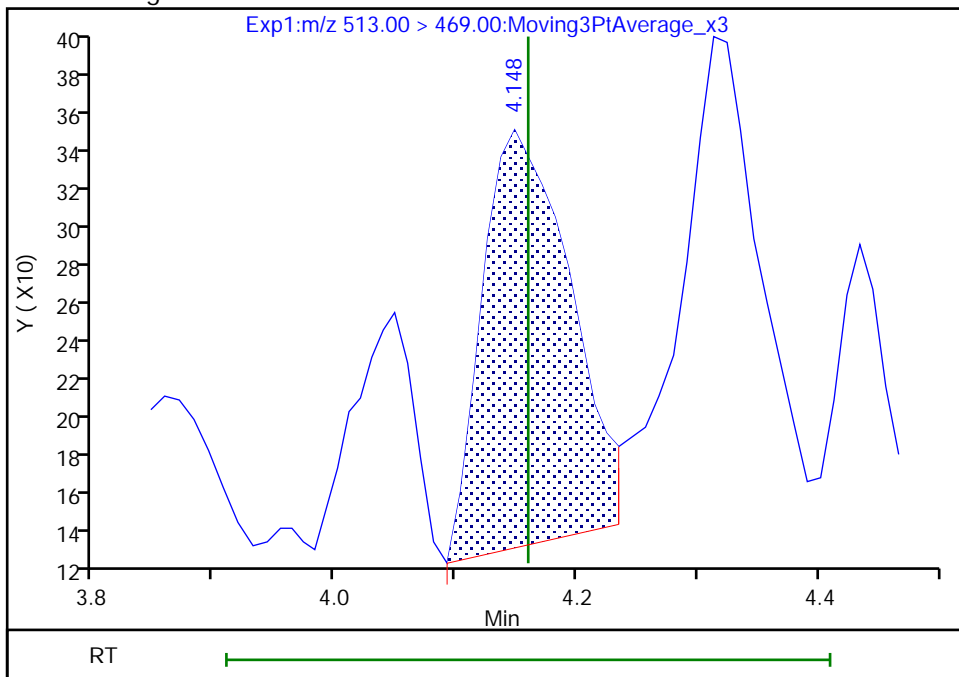
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 1081
Amount: 0.001243
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:40:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

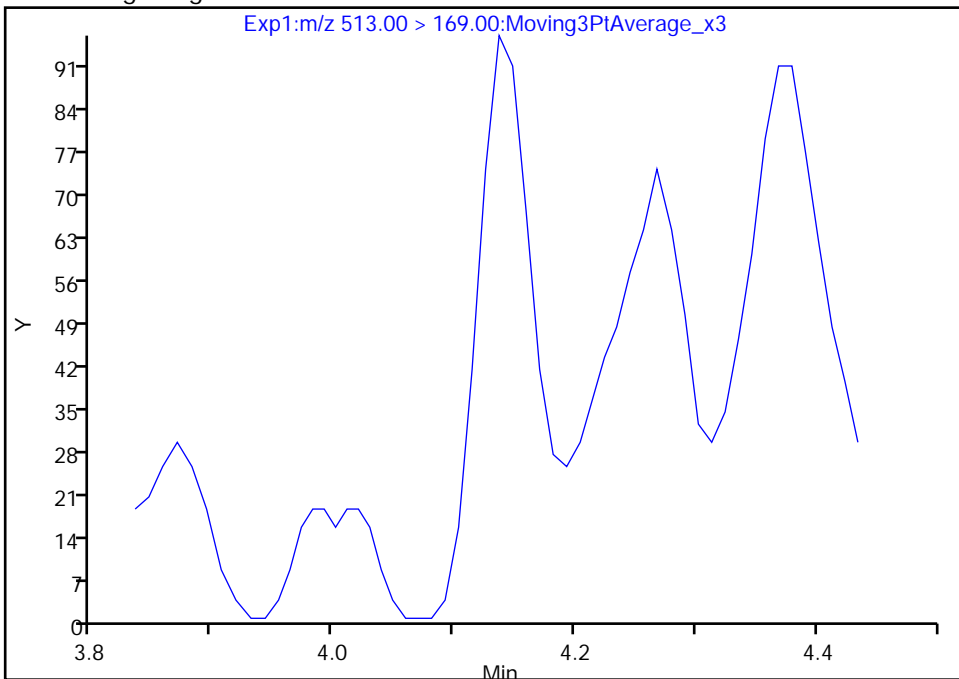
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Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

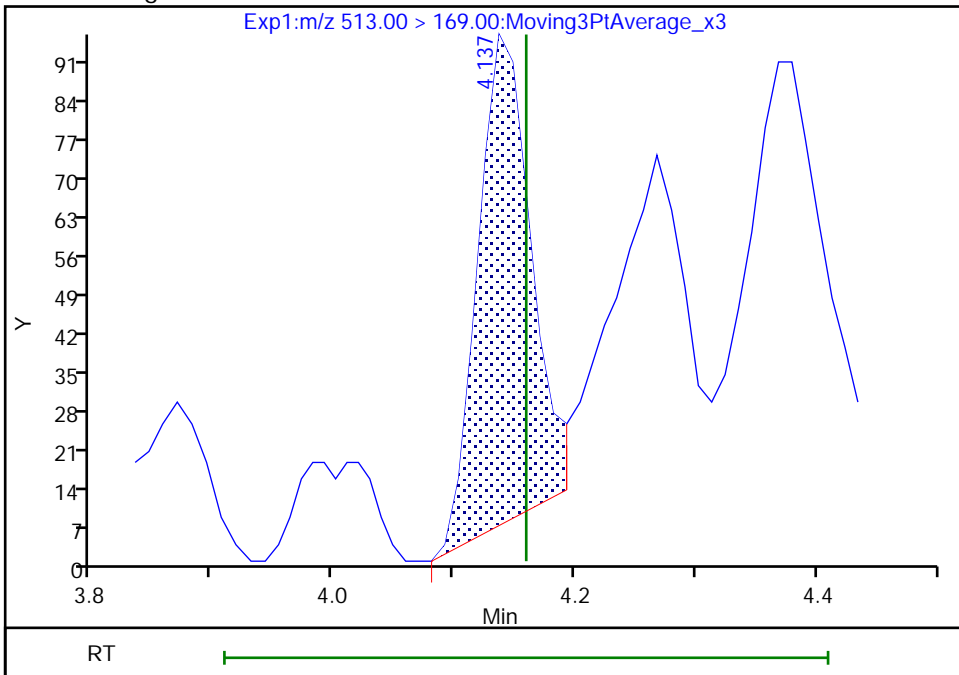
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 270
Amount: 0.001243
Amount Units: ng/ml



Euofins TestAmerica, Burlington

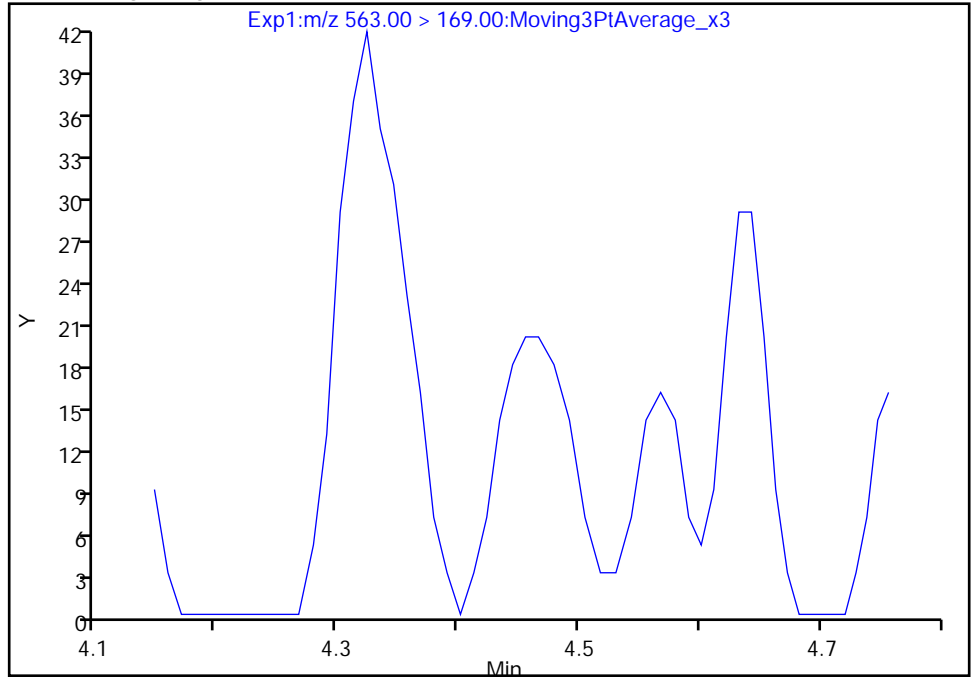
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

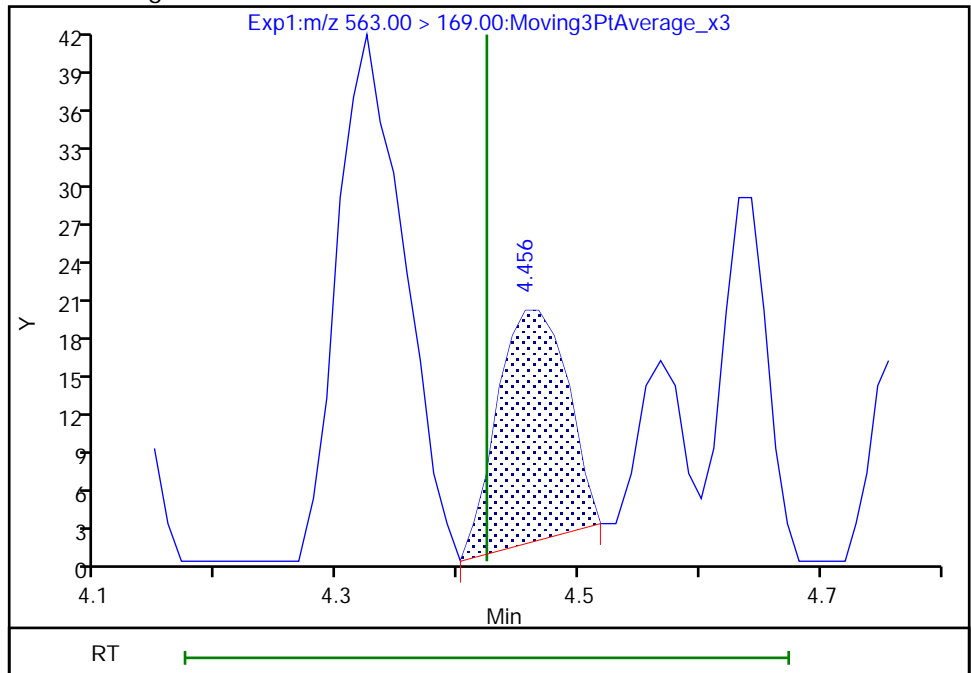
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.46
Area: 74
Amount: 0.001640
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:42:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

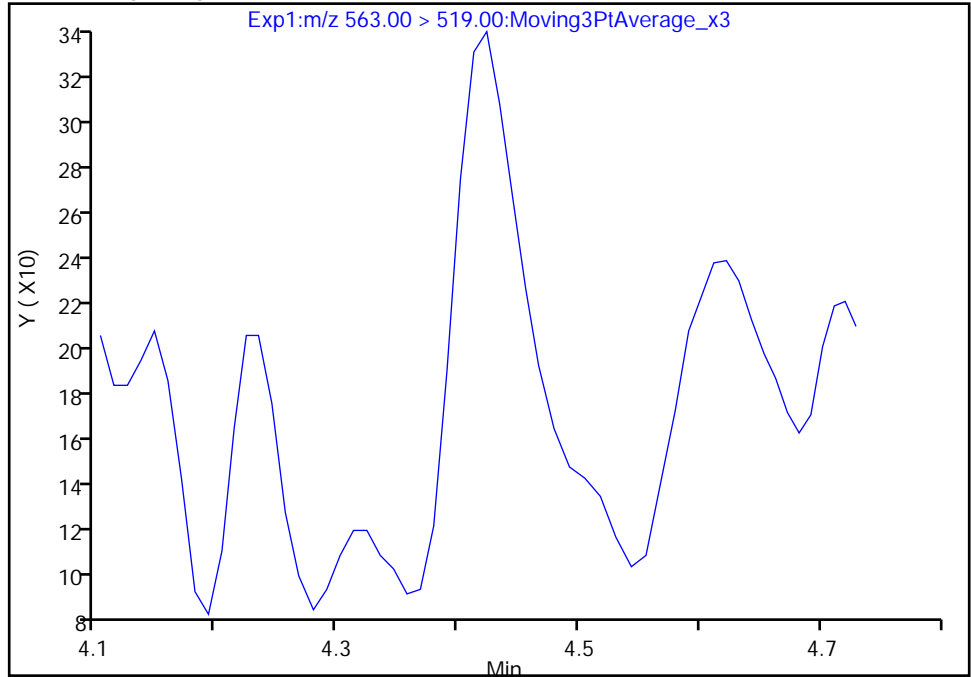
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Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

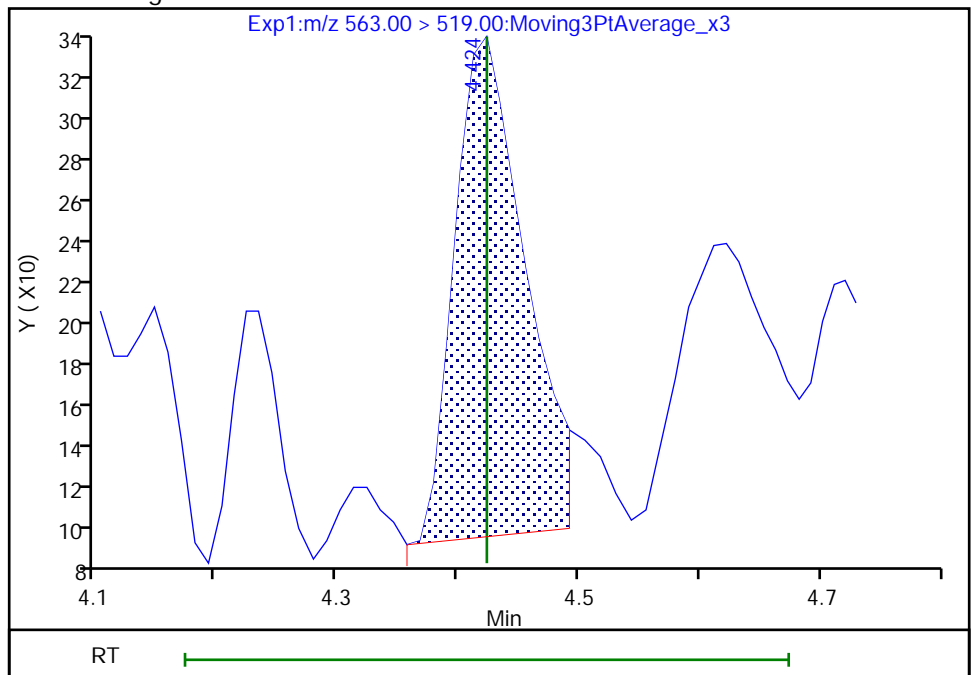
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.42
Area: 979
Amount: 0.001640
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:42:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

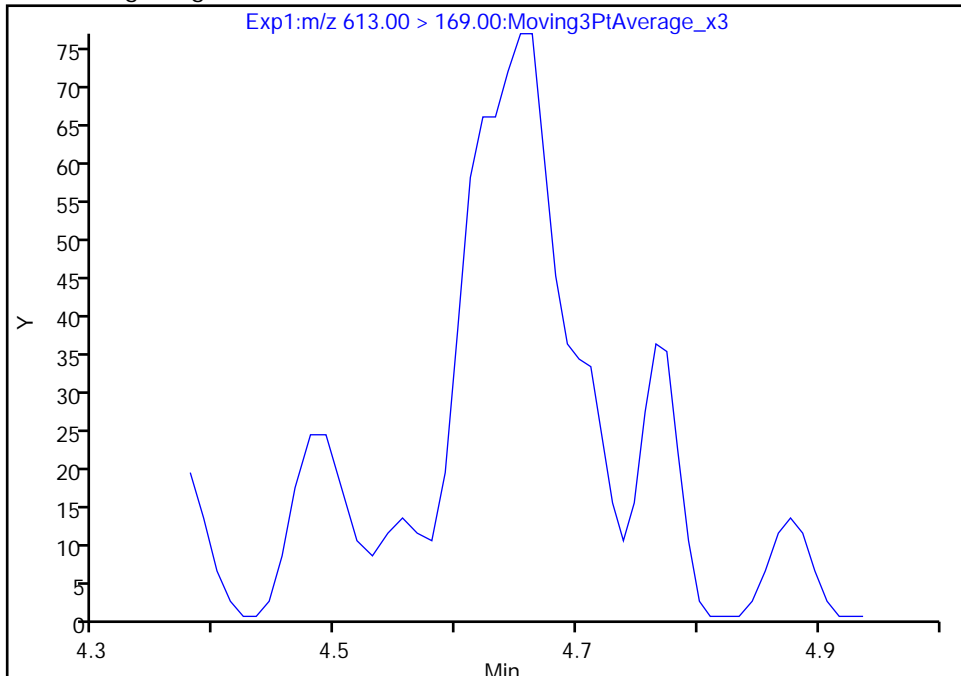
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

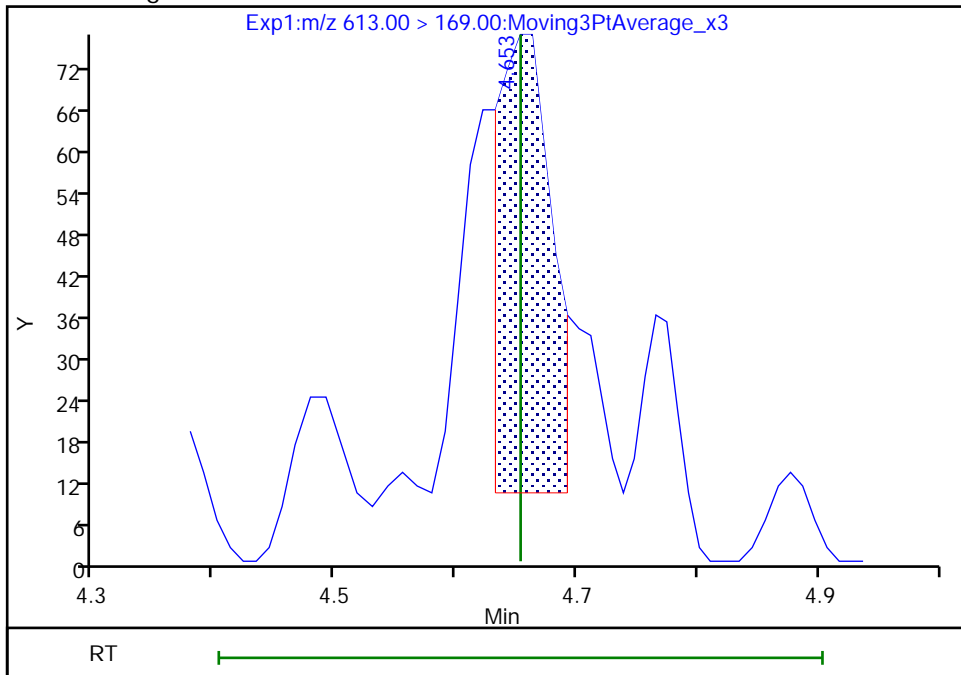
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.65
Area: 193
Amount: 0.001411
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:43:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

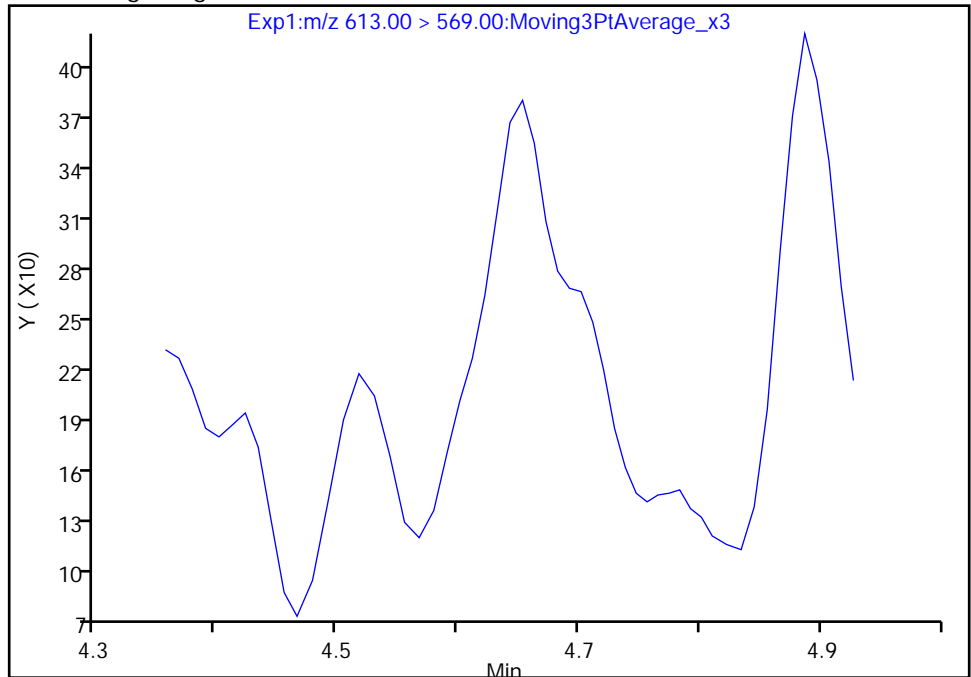
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

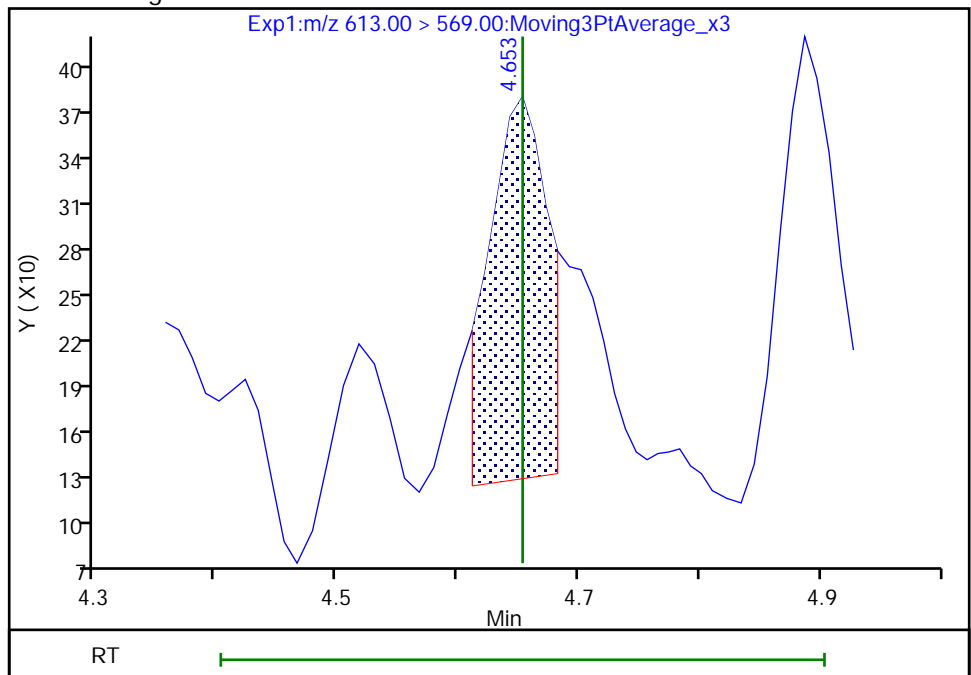
Not Detected
Expected RT: 4.65

Processing Integration Results



RT: 4.65
Area: 800
Amount: 0.001411
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:43:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

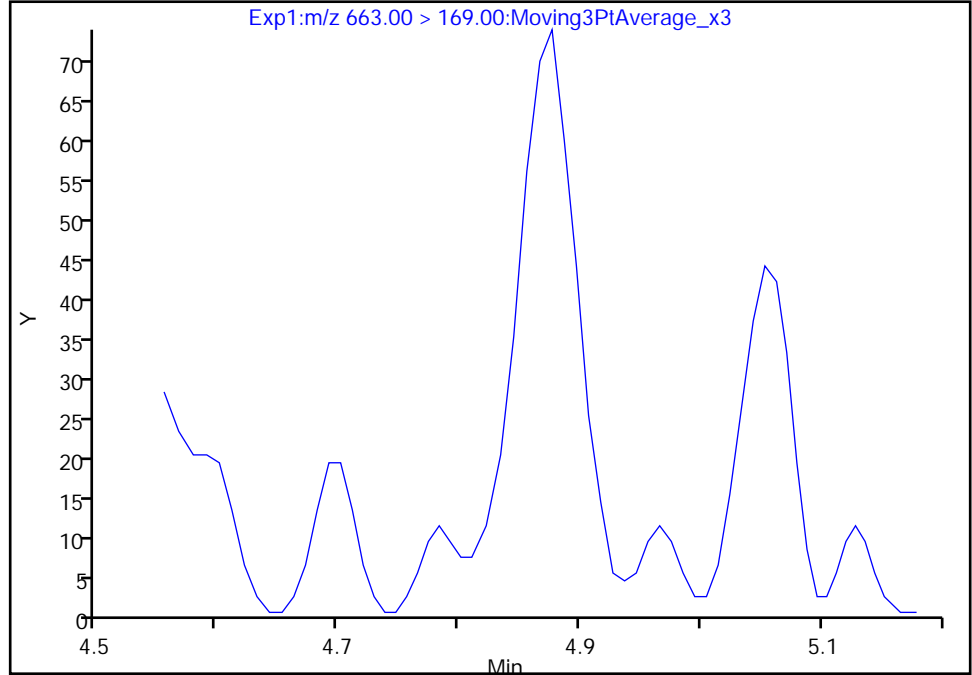
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

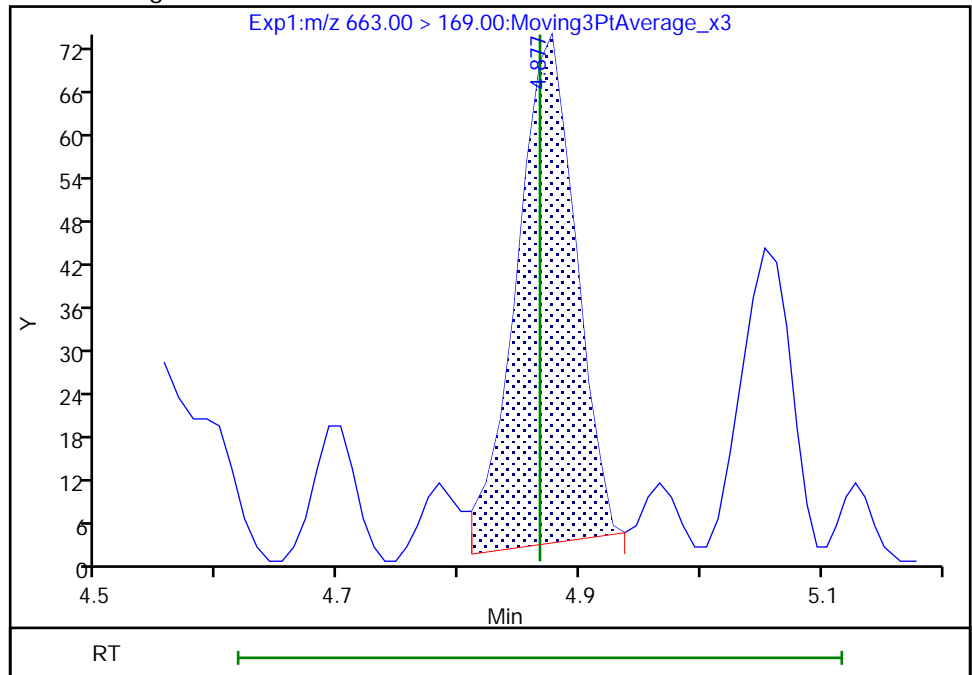
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.88
Area: 243
Amount: 0.001008
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:43:46
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

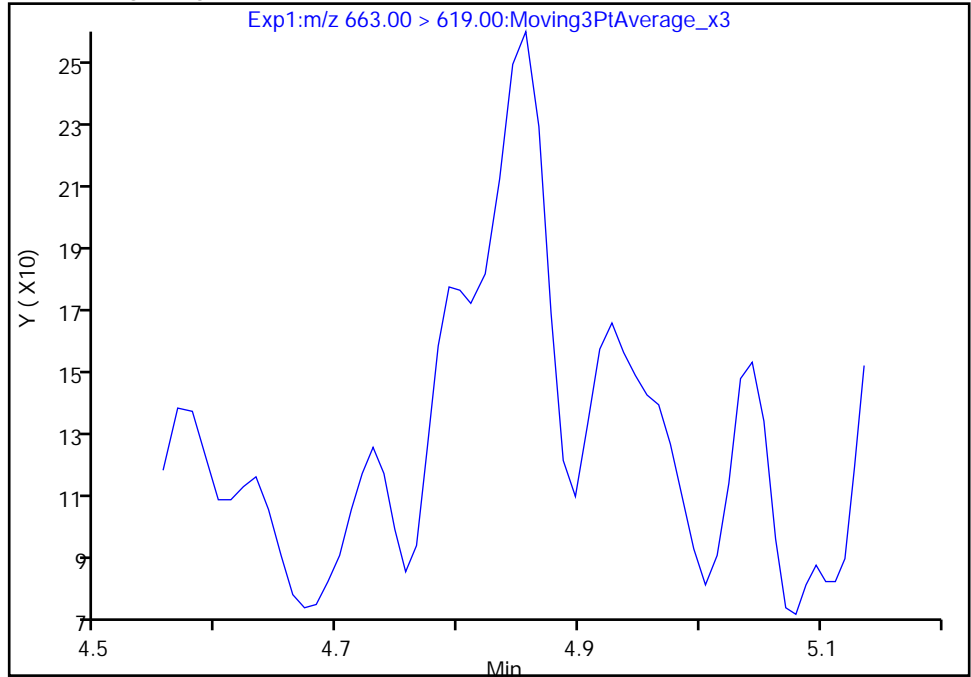
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

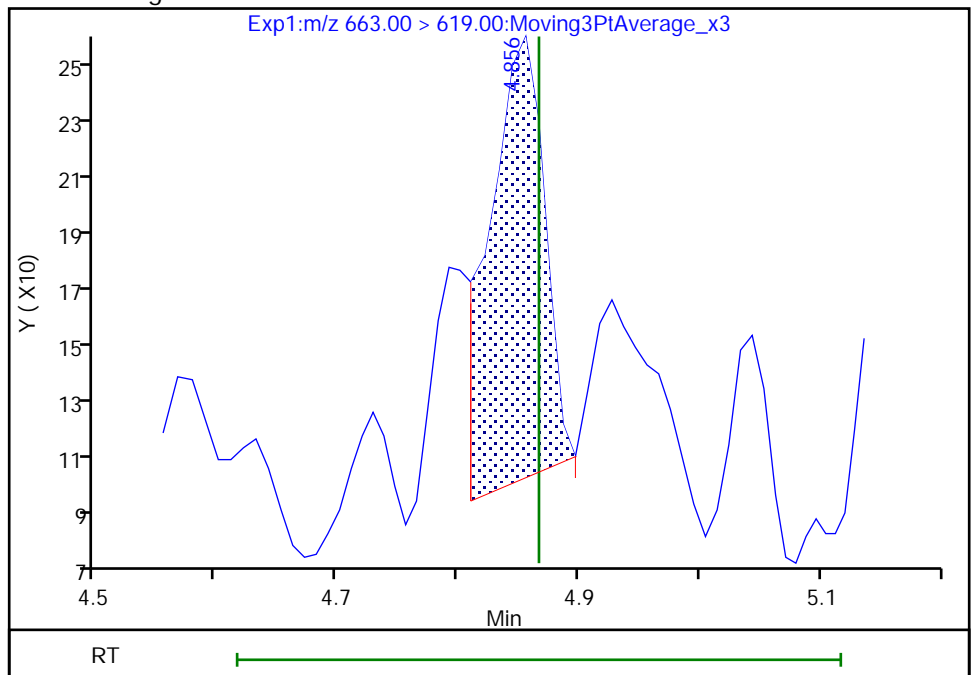
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 461
Amount: 0.001008
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:43:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

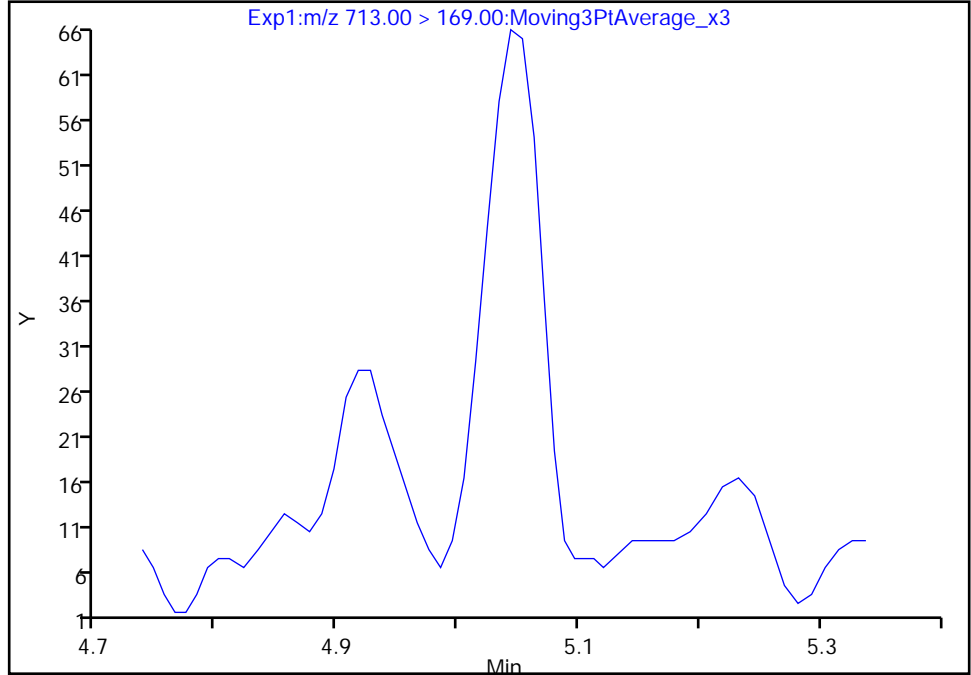
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

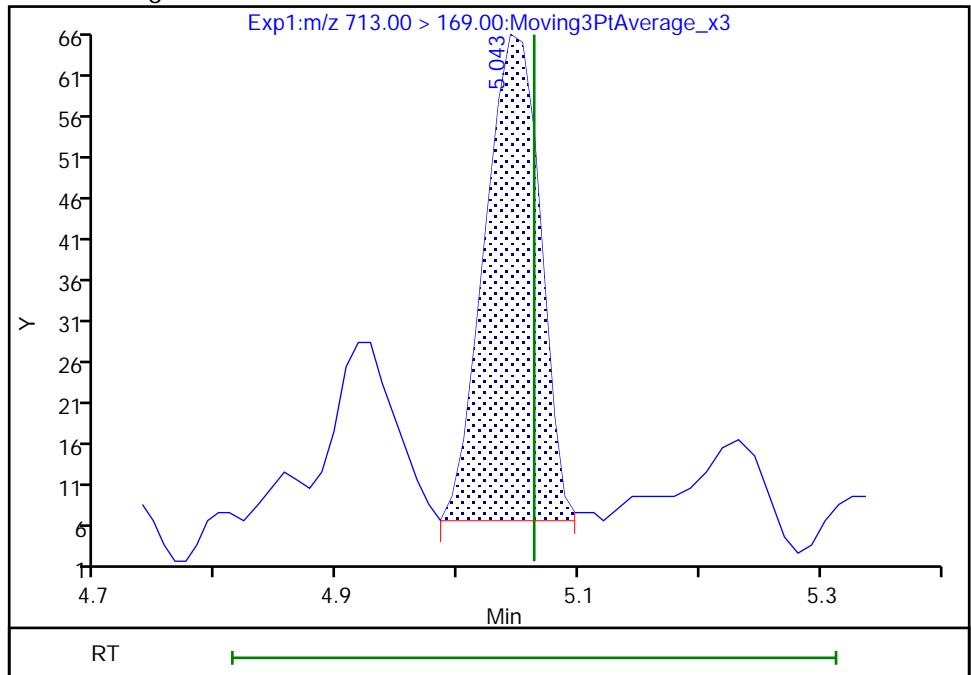
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 191
Amount: 0.002374
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:44:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

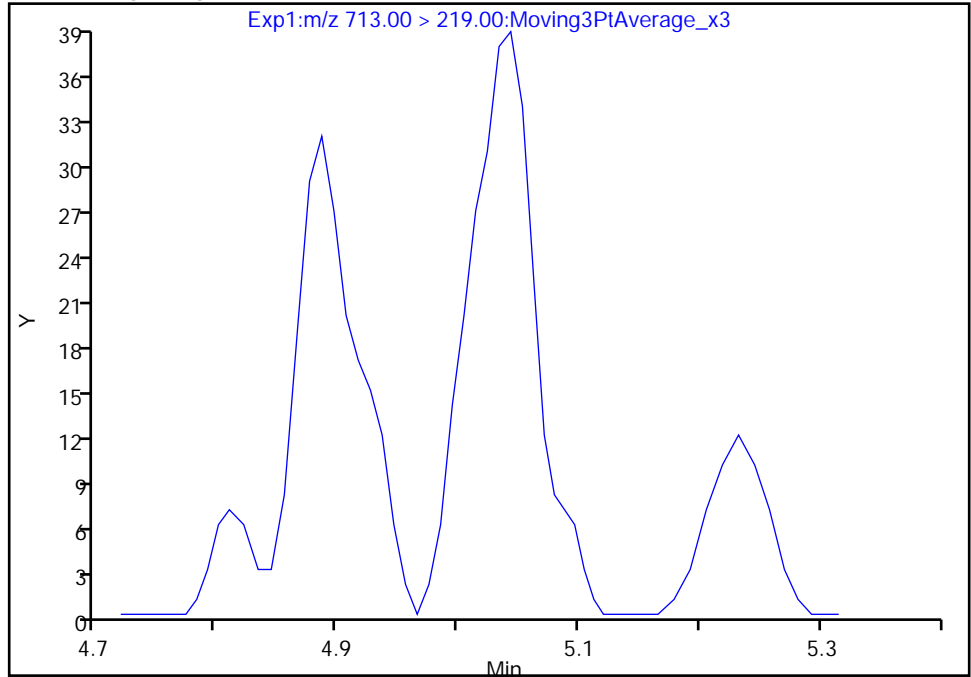
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

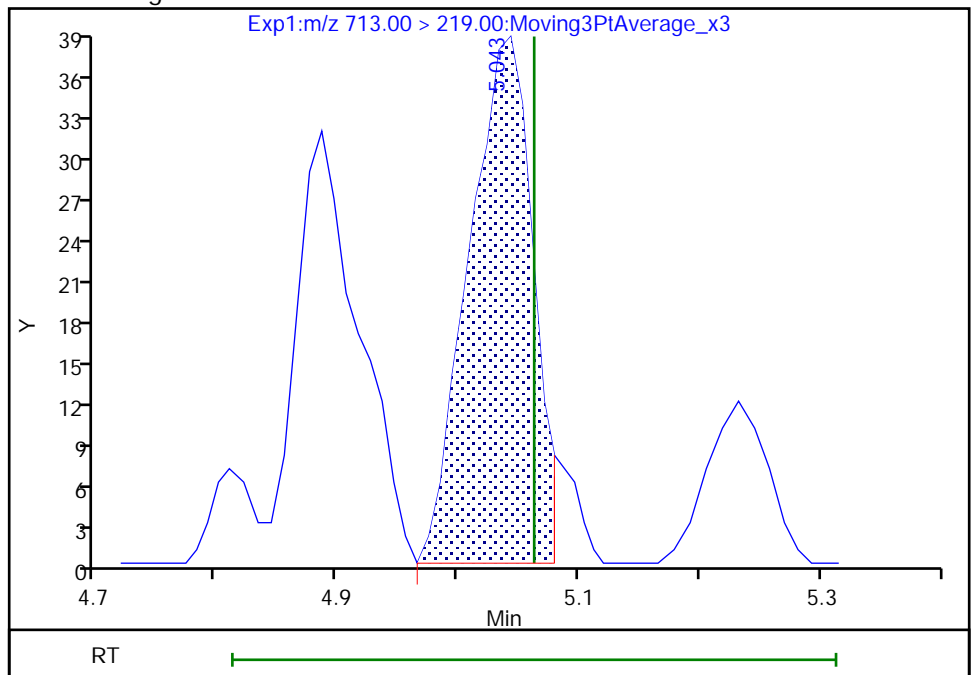
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 142
Amount: 0.002374
Amount Units: ng/ml



Euofins TestAmerica, Burlington

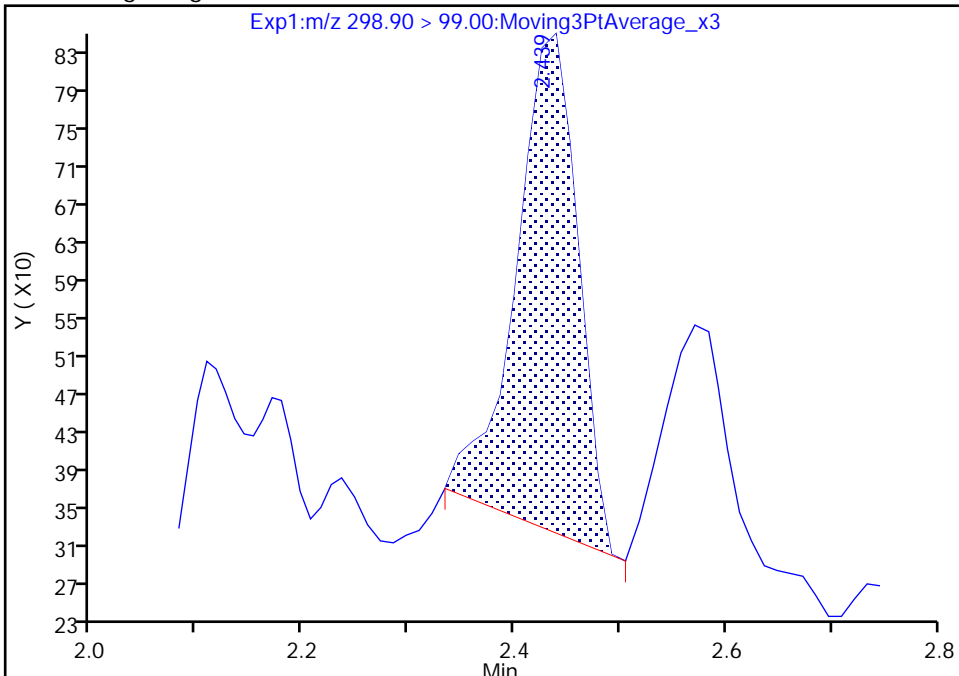
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

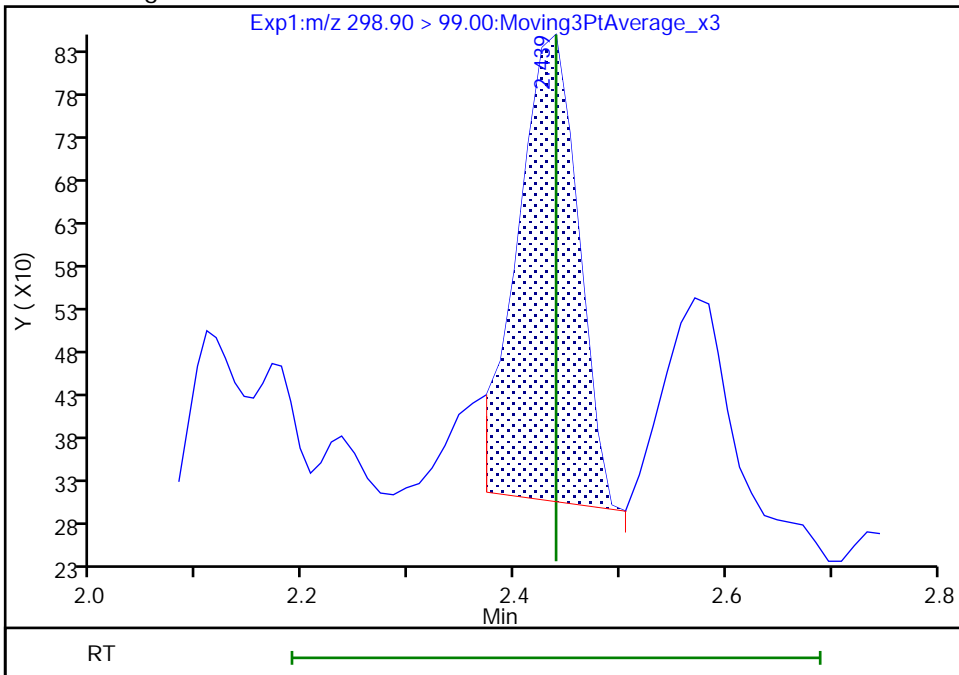
RT: 2.44
Area: 2114
Amount: 0.003346
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 2146
Amount: 0.003346
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:34:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

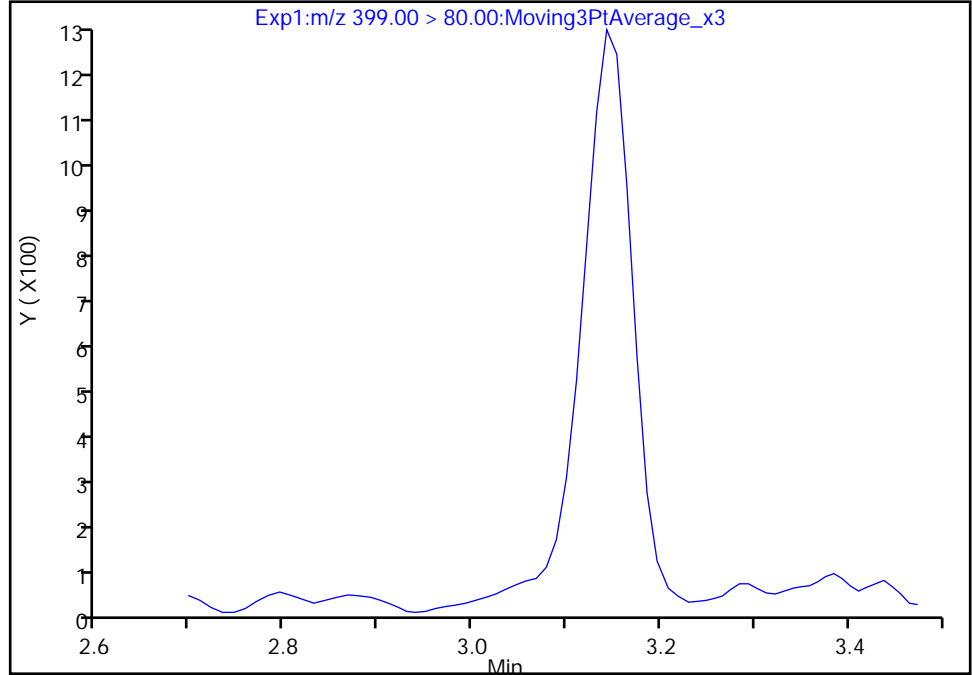
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

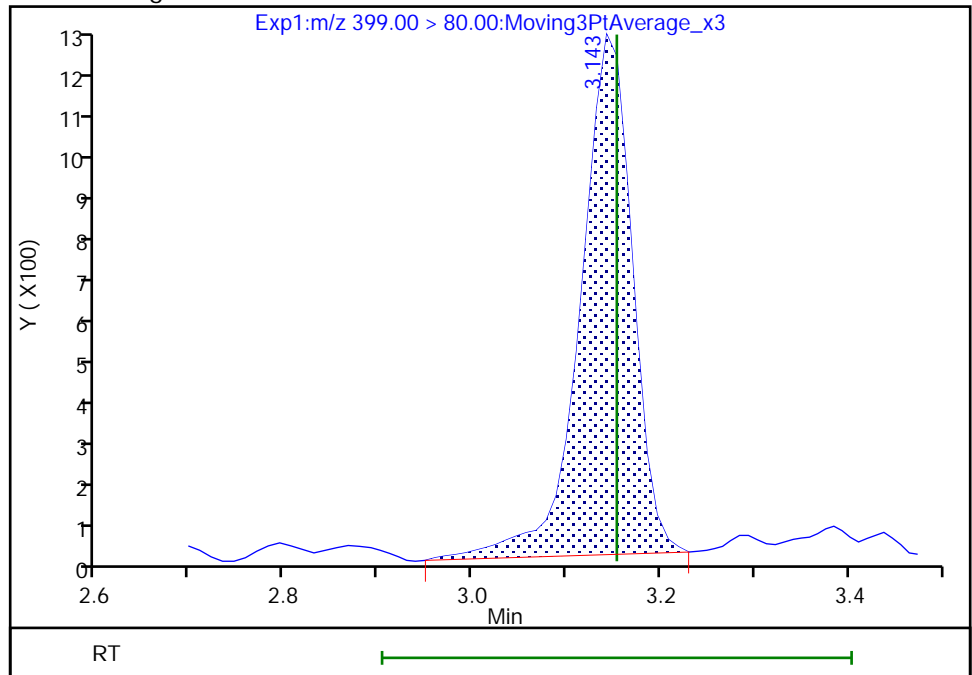
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.14
Area: 4569
Amount: 0.005019
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:35:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

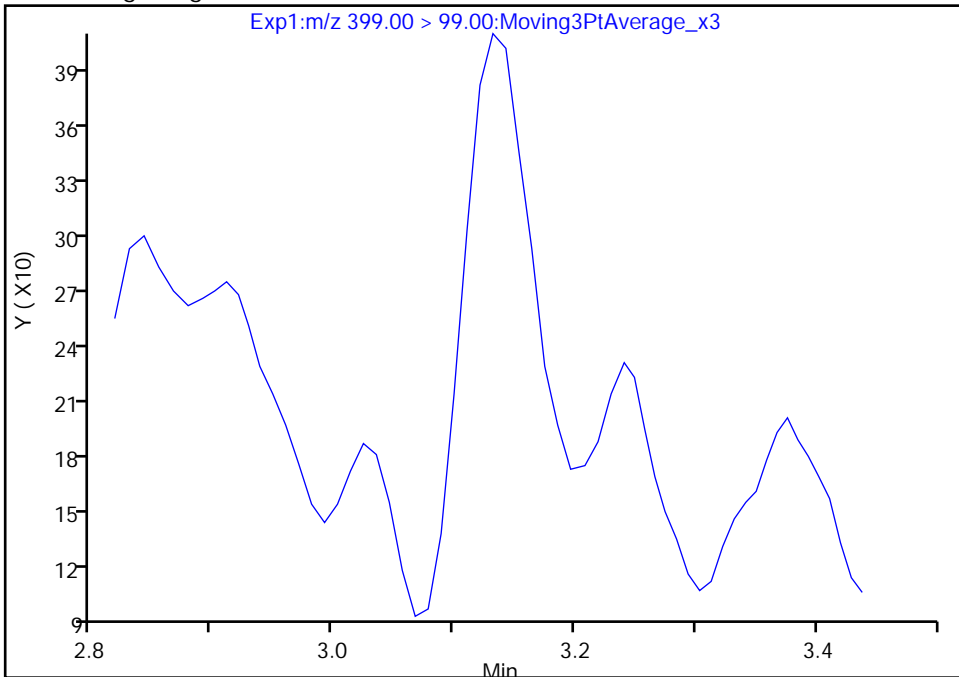
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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: 2

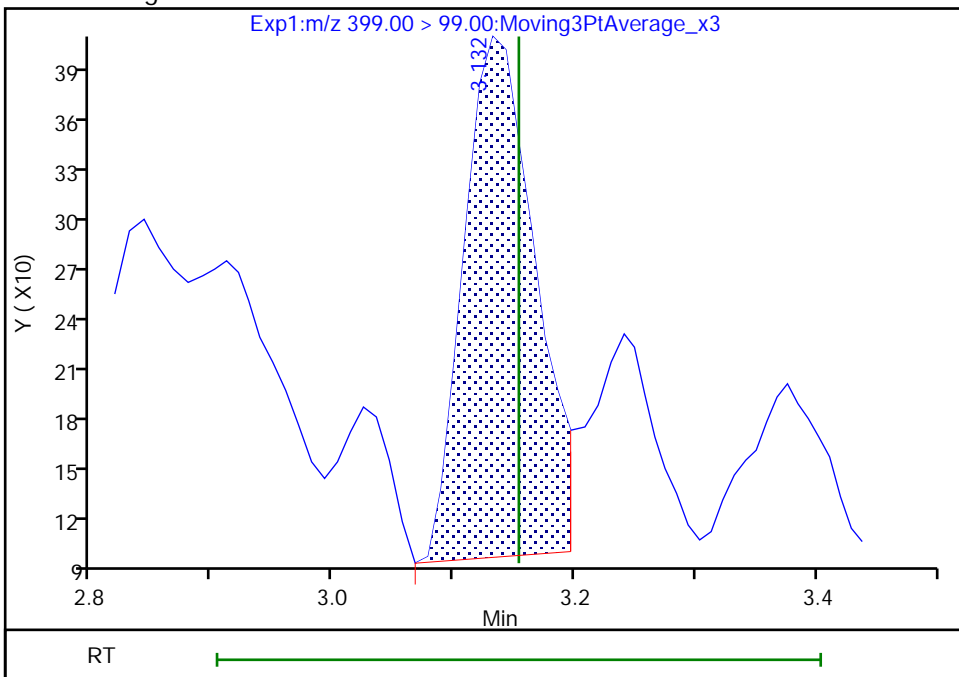
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.13
Area: 1279
Amount: 0.005019
Amount Units: ng/ml



Euofins TestAmerica, Burlington

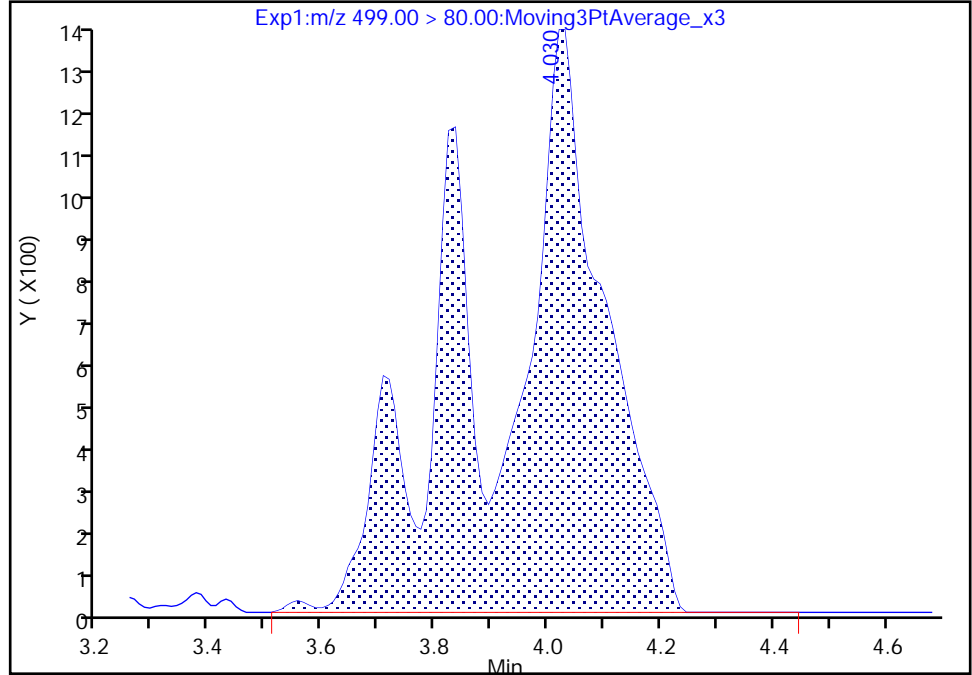
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

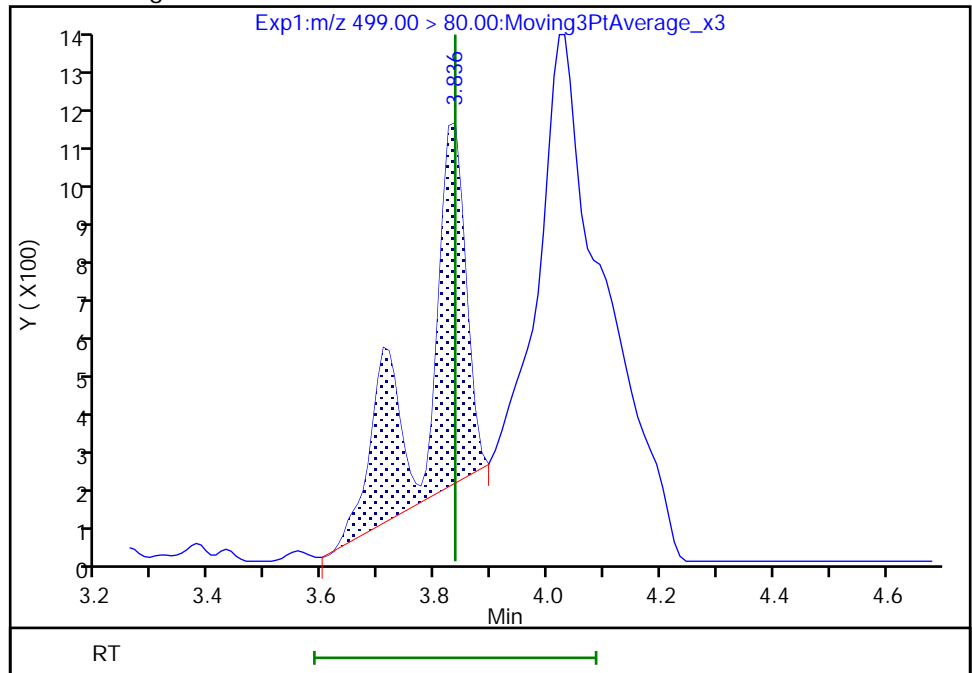
RT: 4.03
Area: 19486
Amount: 0.031146
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 4742
Amount: 0.007579
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:39:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

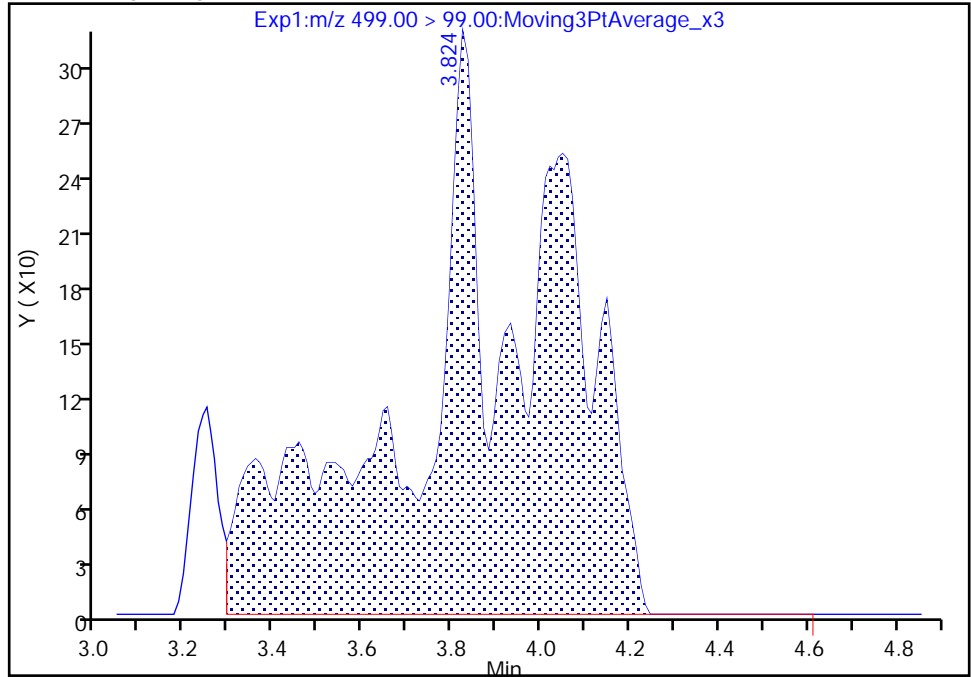
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

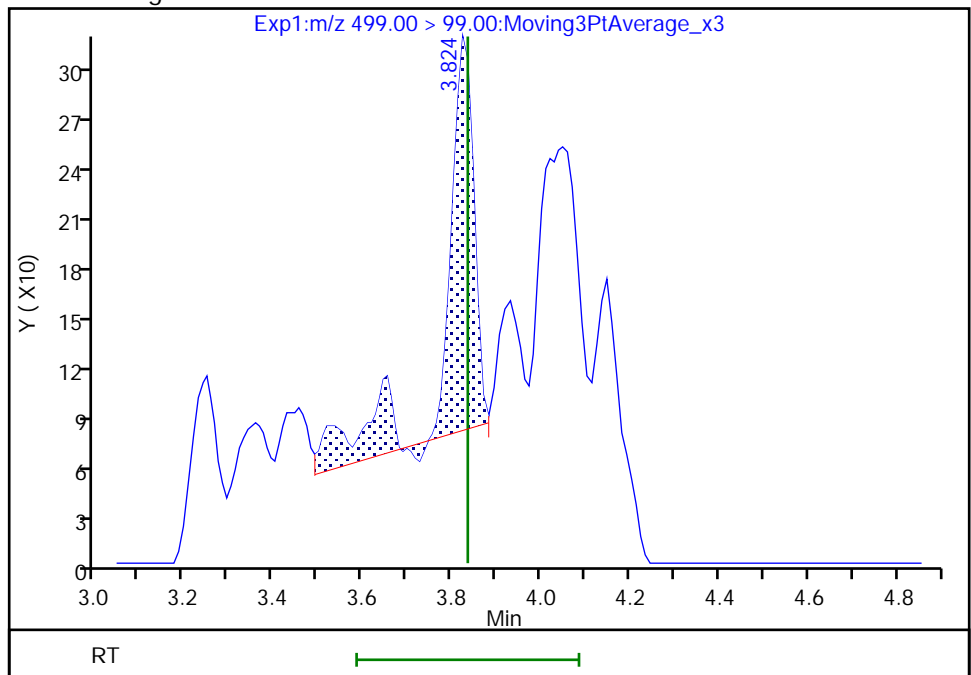
RT: 3.82
Area: 6567
Amount: 0.031146
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 1036
Amount: 0.007579
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 24-May-2021 16:37:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

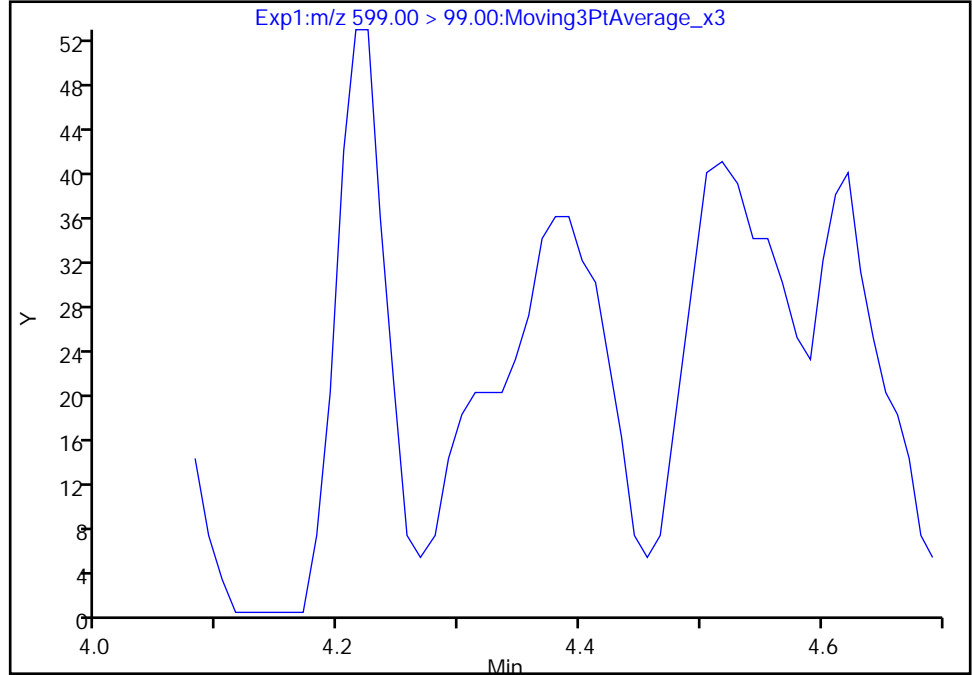
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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: 2

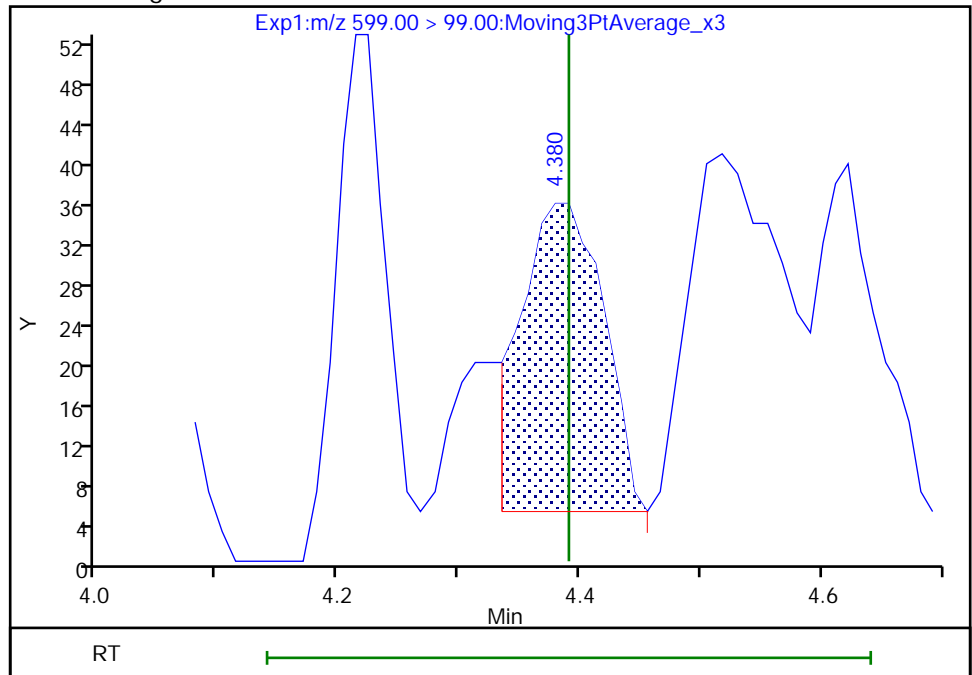
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 146
Amount: 0.000423
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:41:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

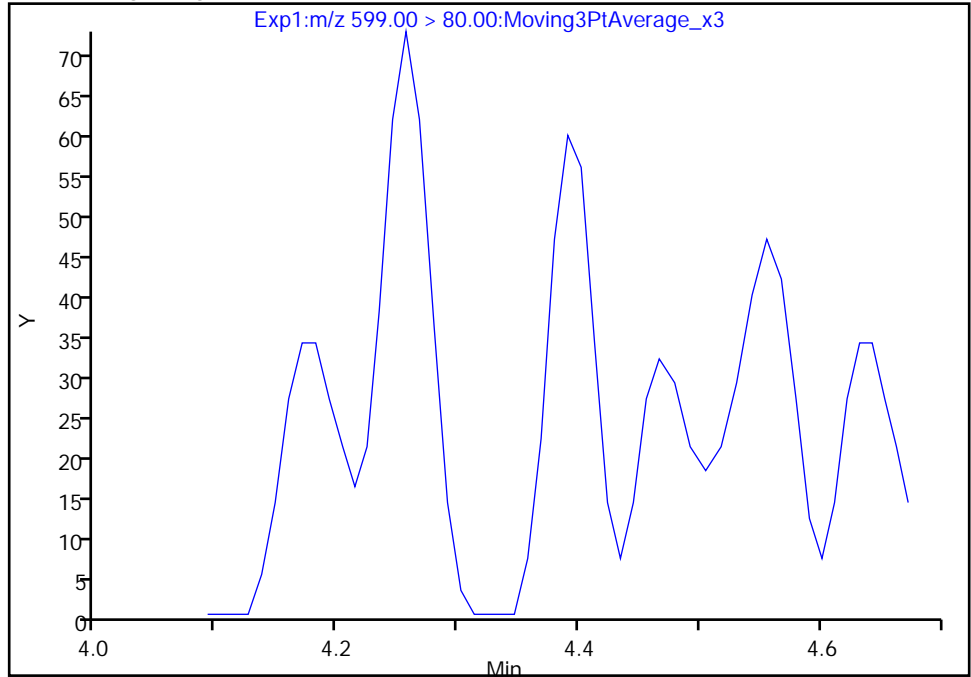
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

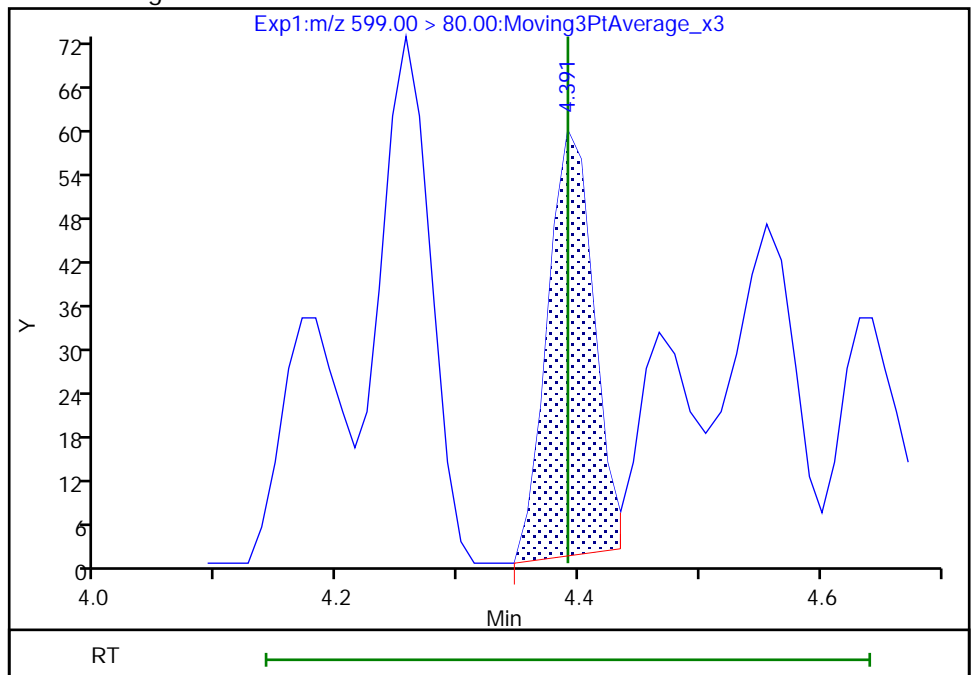
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.39
Area: 155
Amount: 0.000423
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:41:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

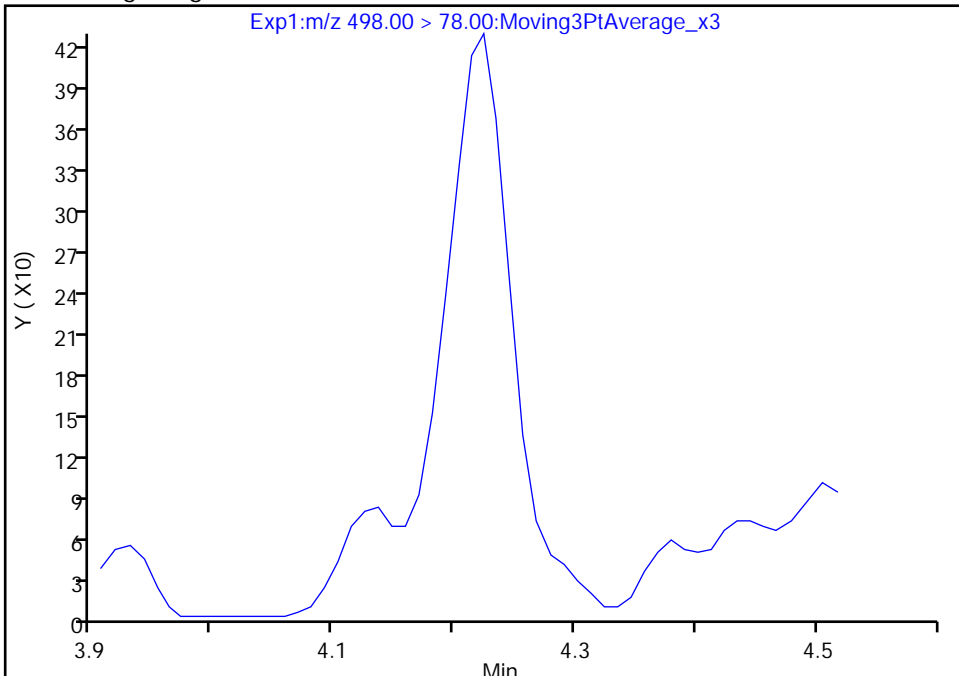
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

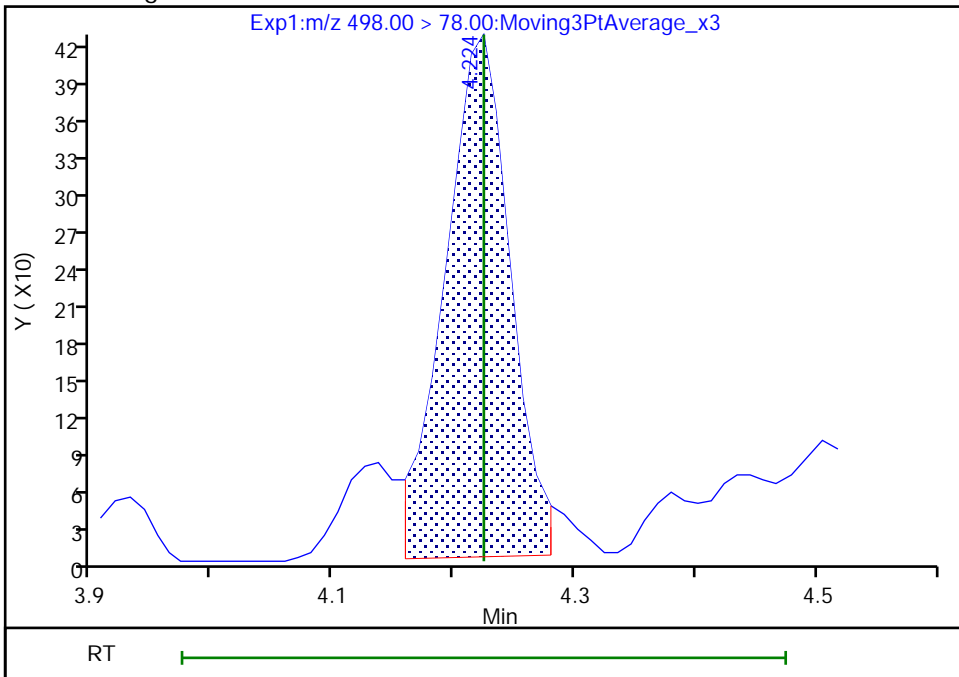
Signal: 1

Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results



RT: 4.22
Area: 1583
Amount: 0.002216
Amount Units: ng/ml

Reviewer: nampitakw, 24-May-2021 10:41:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

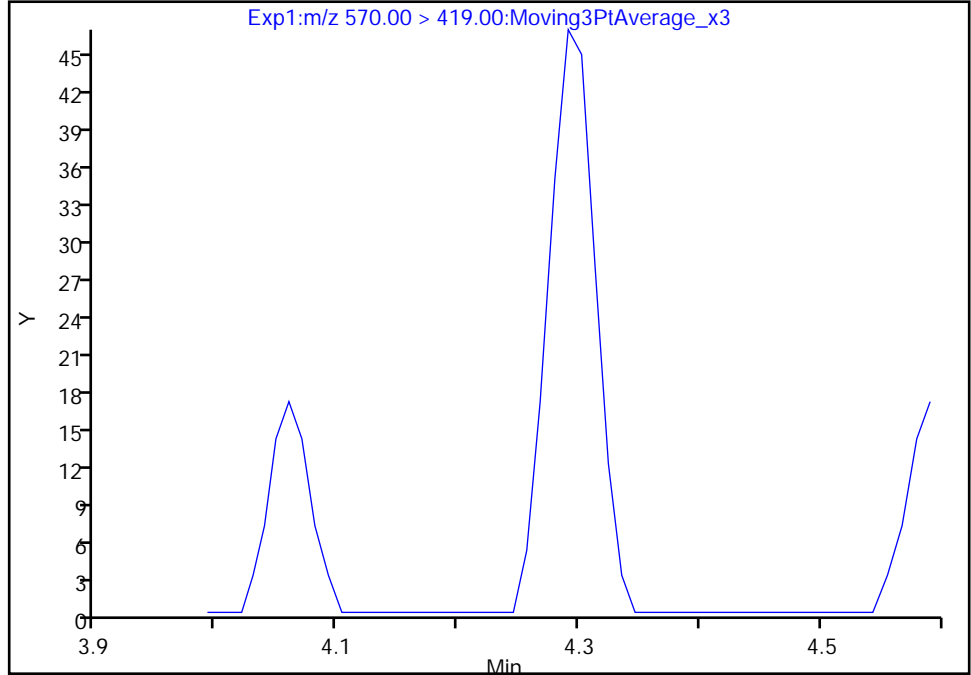
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

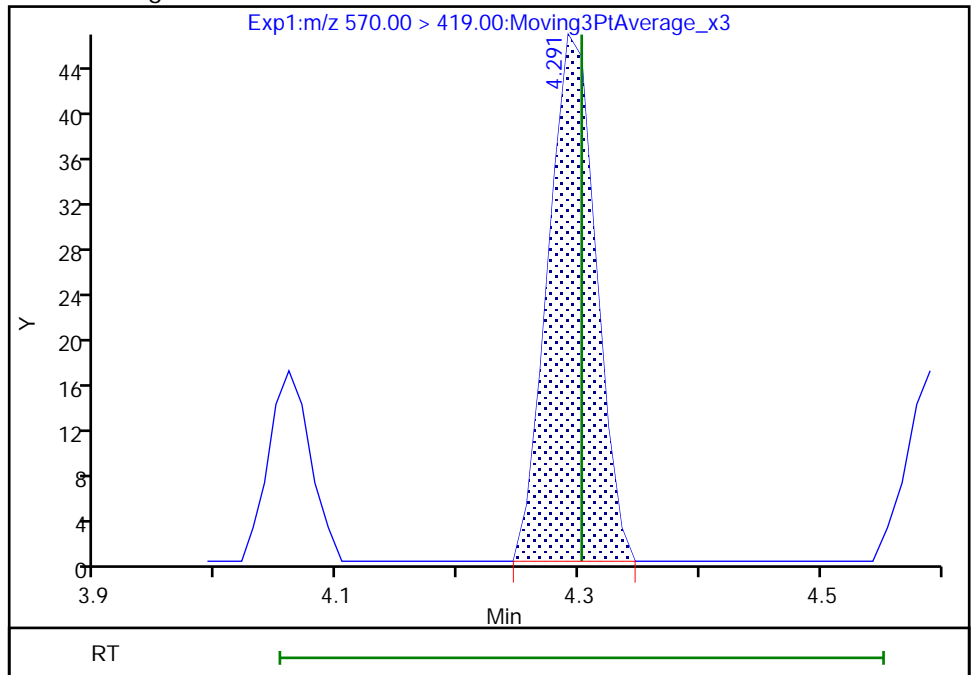
Not Detected
Expected RT: 4.30

Processing Integration Results



Manual Integration Results

RT: 4.29
Area: 129
Amount: 0.002651
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:41:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

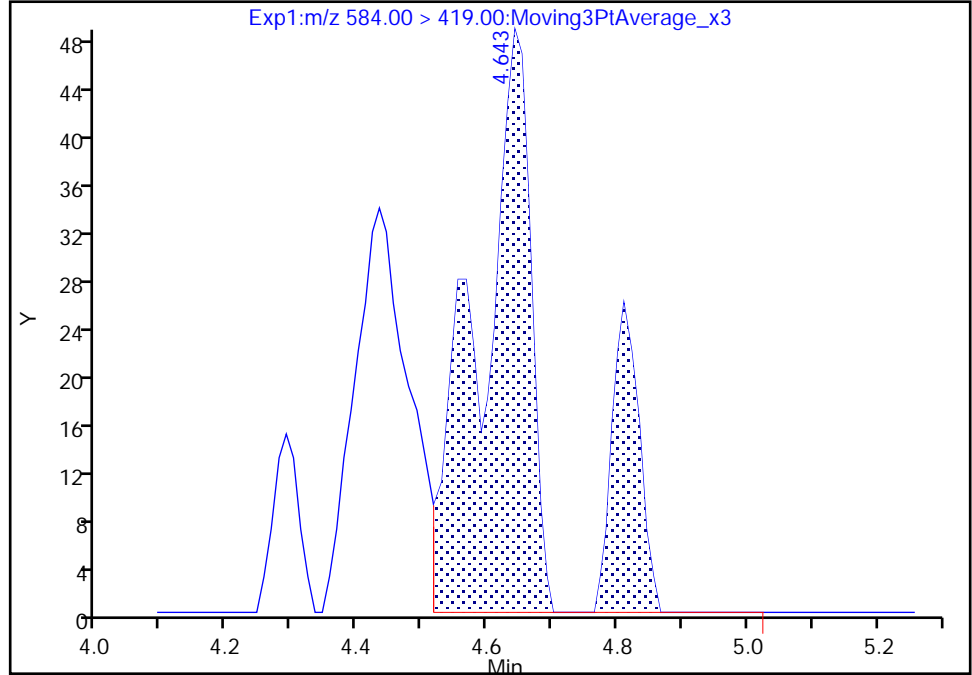
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

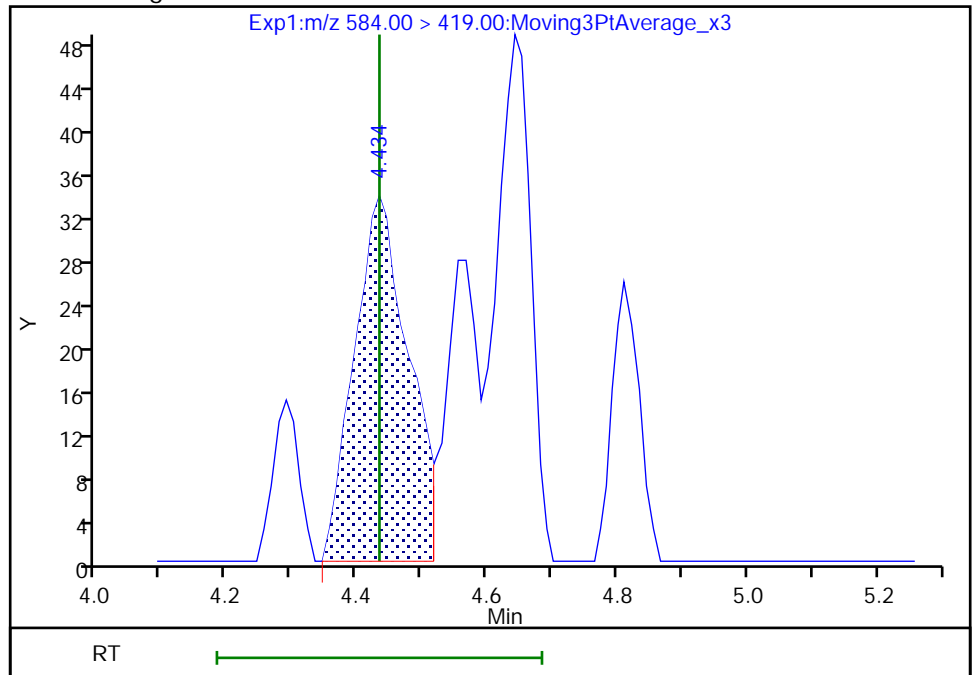
RT: 4.64
Area: 342
Amount: -0.003820
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 194
Amount: -0.006927
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:42:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

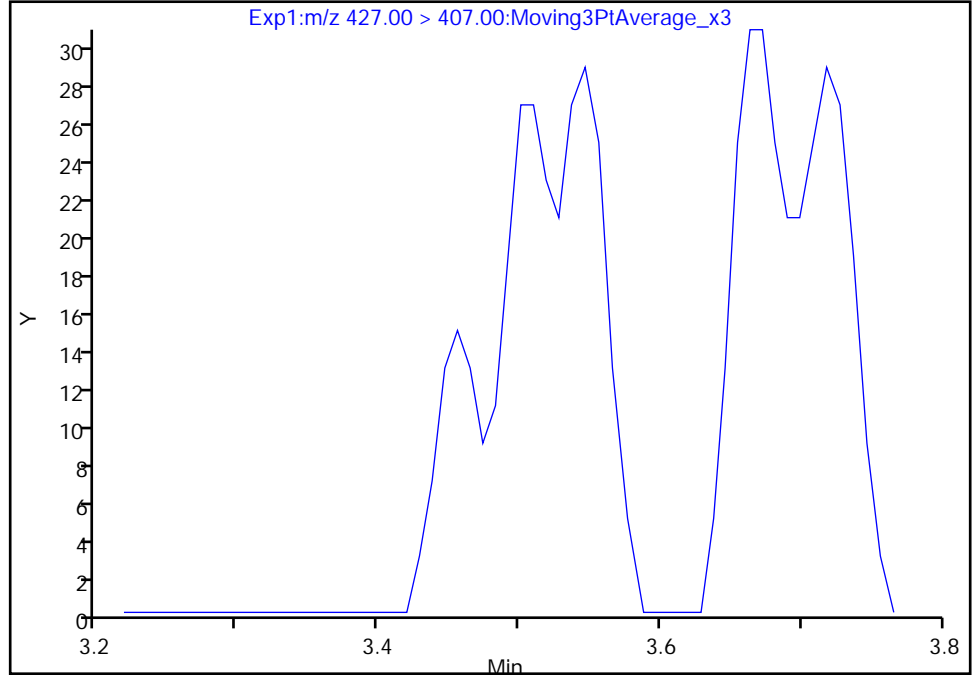
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

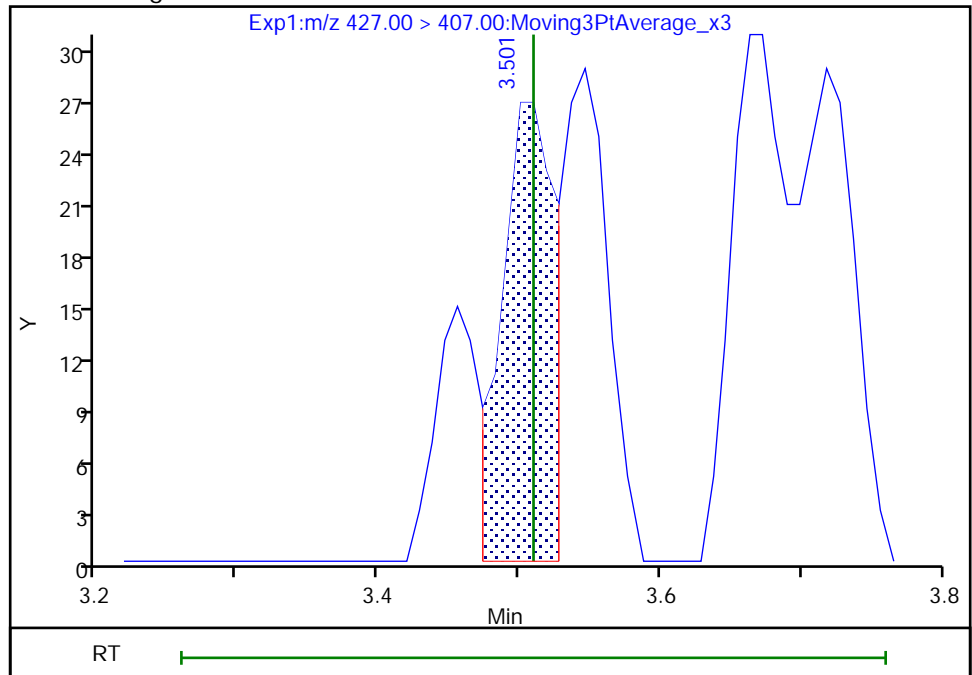
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.50
Area: 65
Amount: 0.000619
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 10:36:17
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

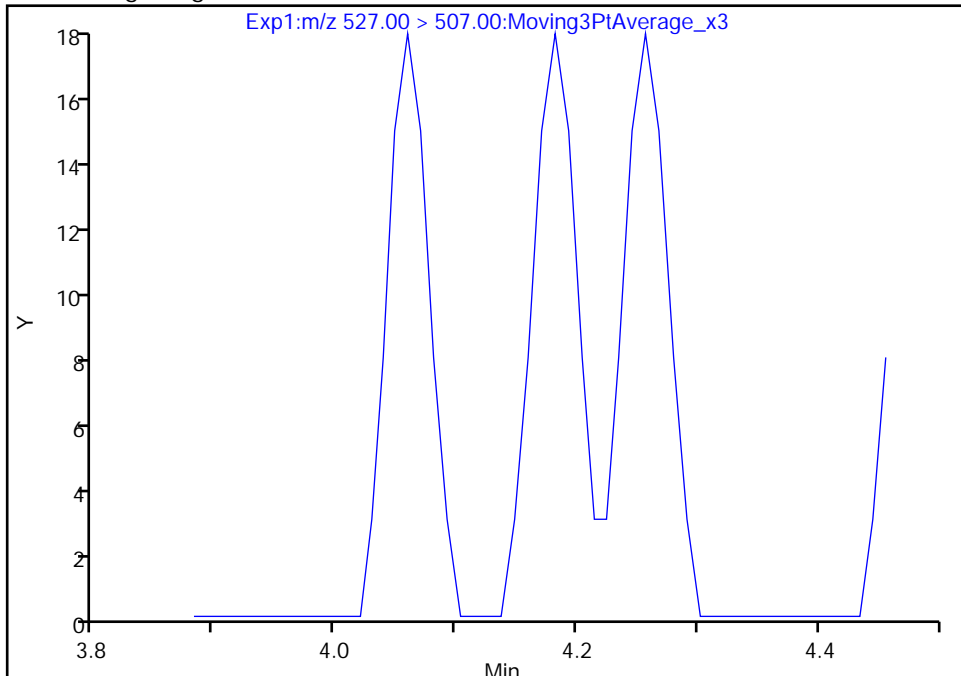
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 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

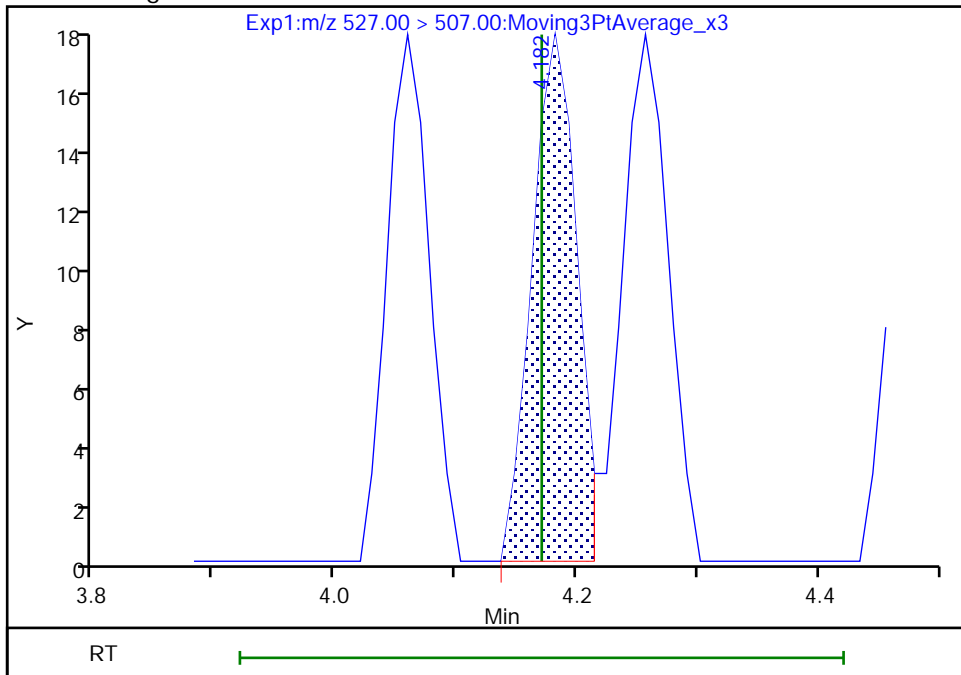
Not Detected
Expected RT: 4.17

Processing Integration Results



RT: 4.18
Area: 45
Amount: 0.000646
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:41:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

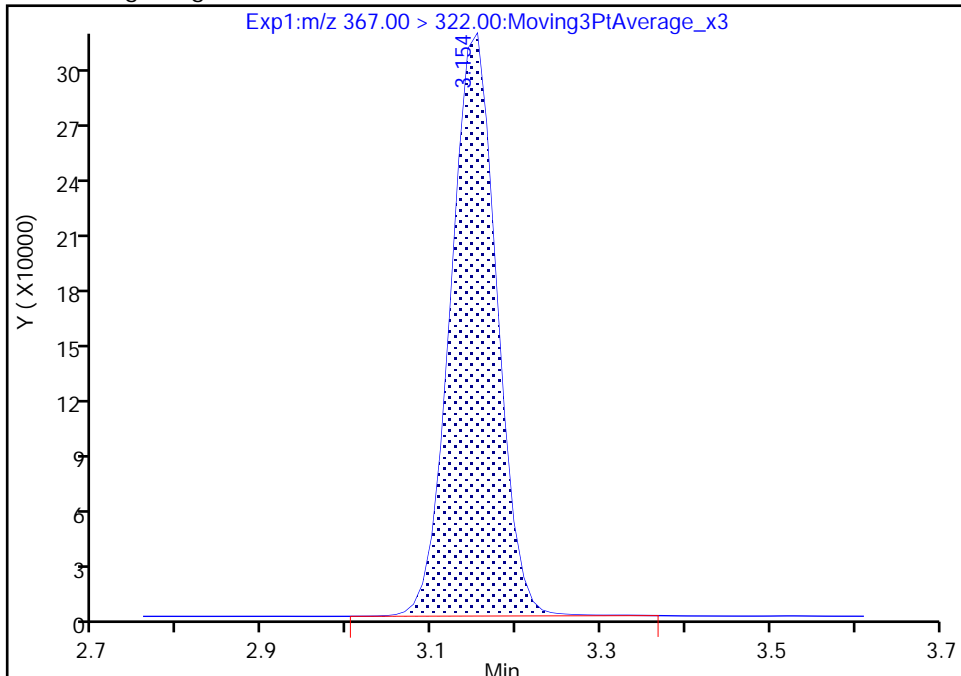
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 9 13C4 PFHpA, CAS: STL01892

Signal: 1

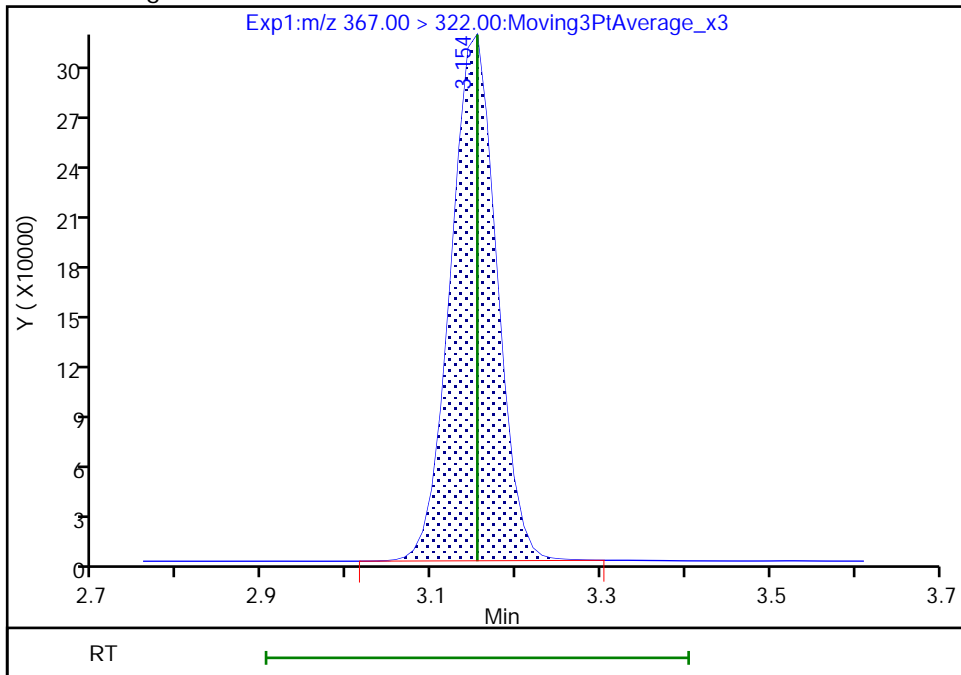
RT: 3.15
Area: 1196104
Amount: 1.193722
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 1193642
Amount: 1.191265
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:32:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

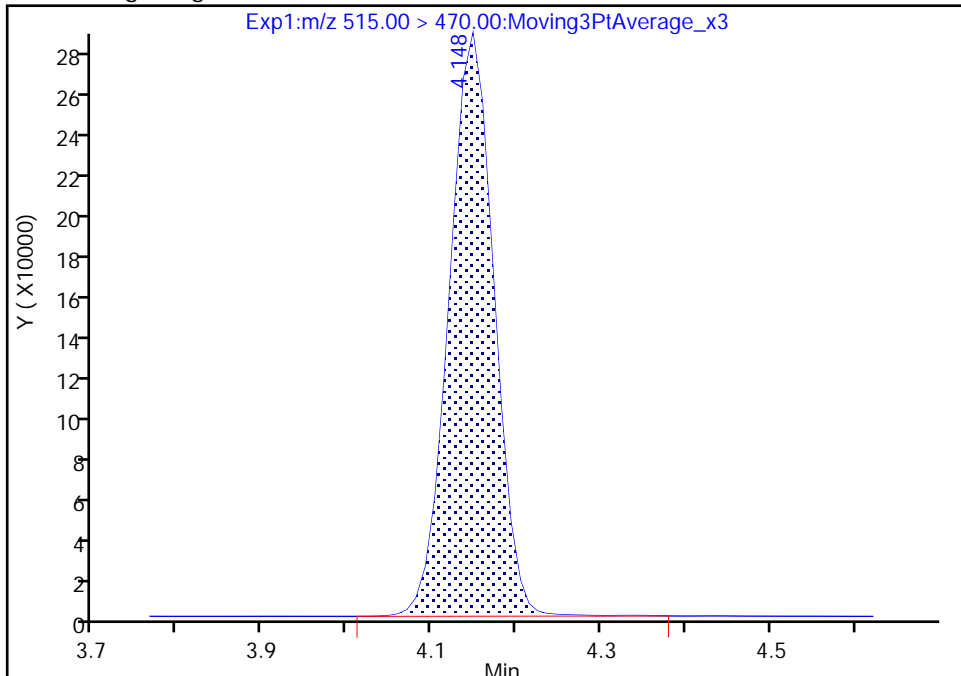
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

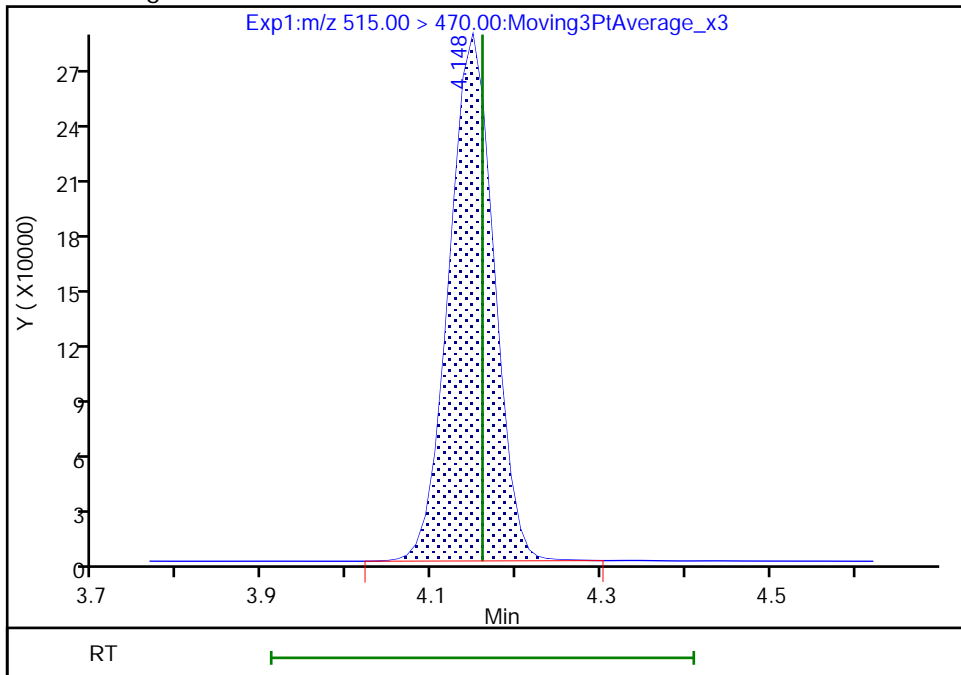
RT: 4.15
Area: 1041091
Amount: 1.269634
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1038767
Amount: 1.266800
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:32:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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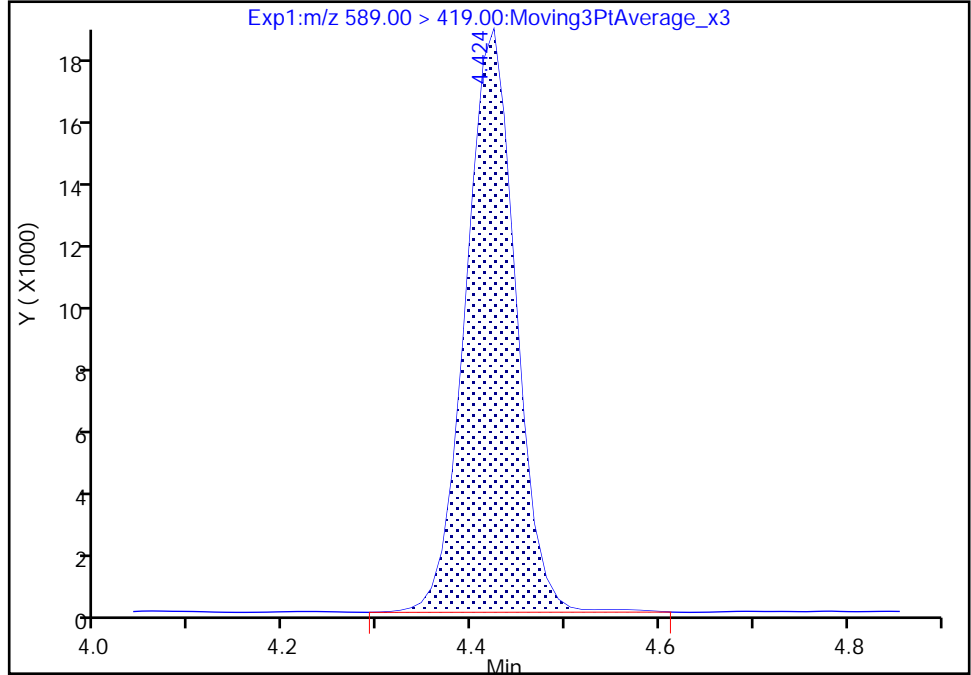
Eurofins TestAmerica, Burlington

Data File:	\\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d				
Injection Date:	21-May-2021 23:43:16	Instrument ID:	LC812		
Lims ID:	200-58440-A-5-A	Lab Sample ID:	200-58440-5		
Client ID:	FIELD BLANK				
Operator ID:	lc812tech	ALS Bottle#:	36	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

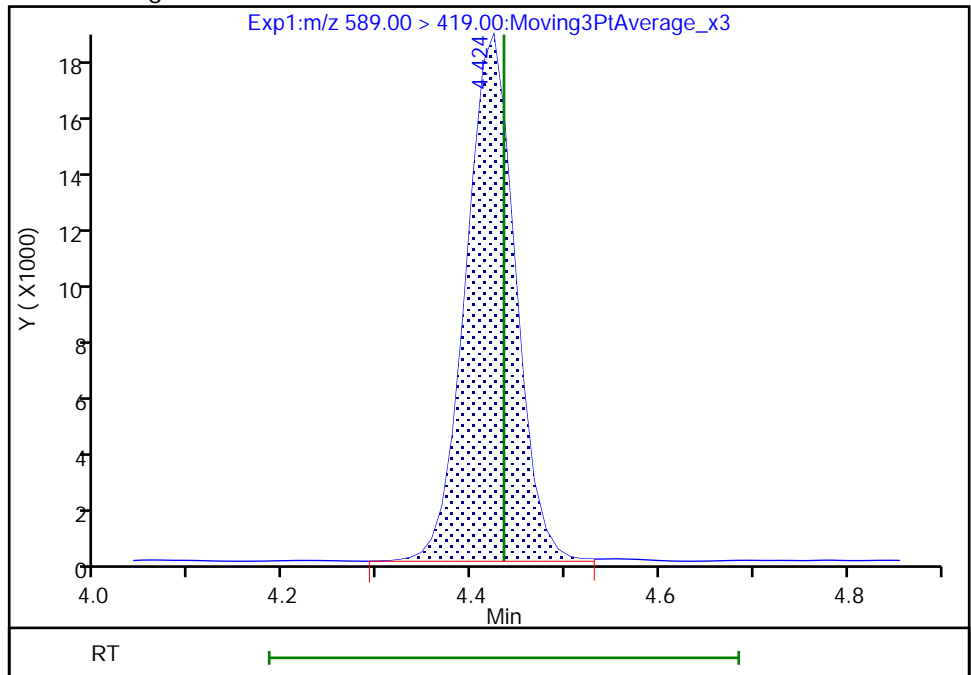
RT: 4.42
Area: 68743
Amount: 1.235027
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 68535
Amount: 1.231290
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:33:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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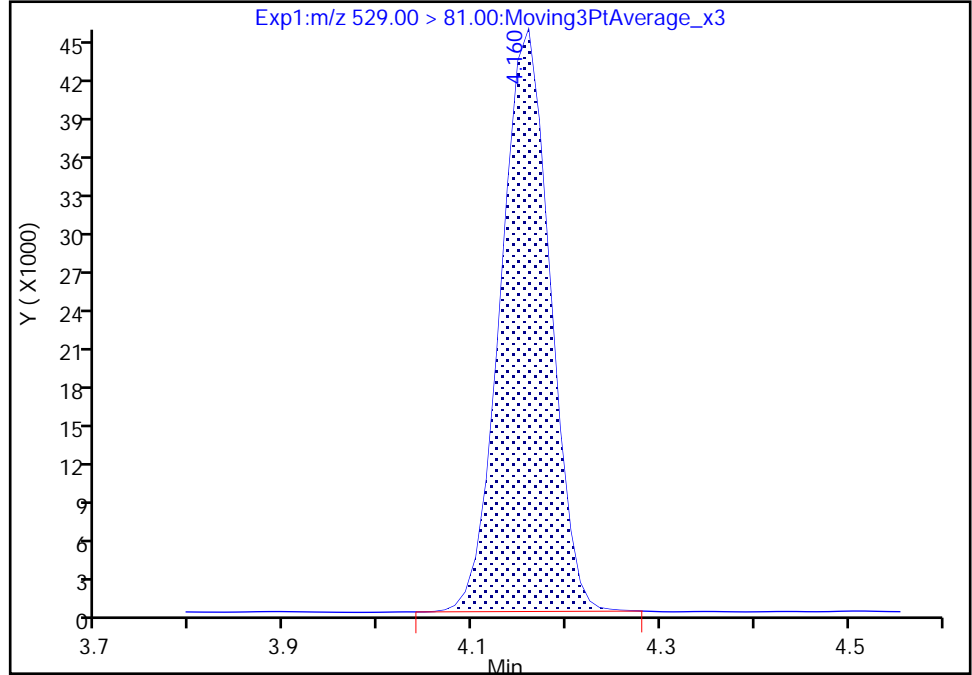
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 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 26 M2-8:2 FTS, CAS: STL02280
Signal: 1

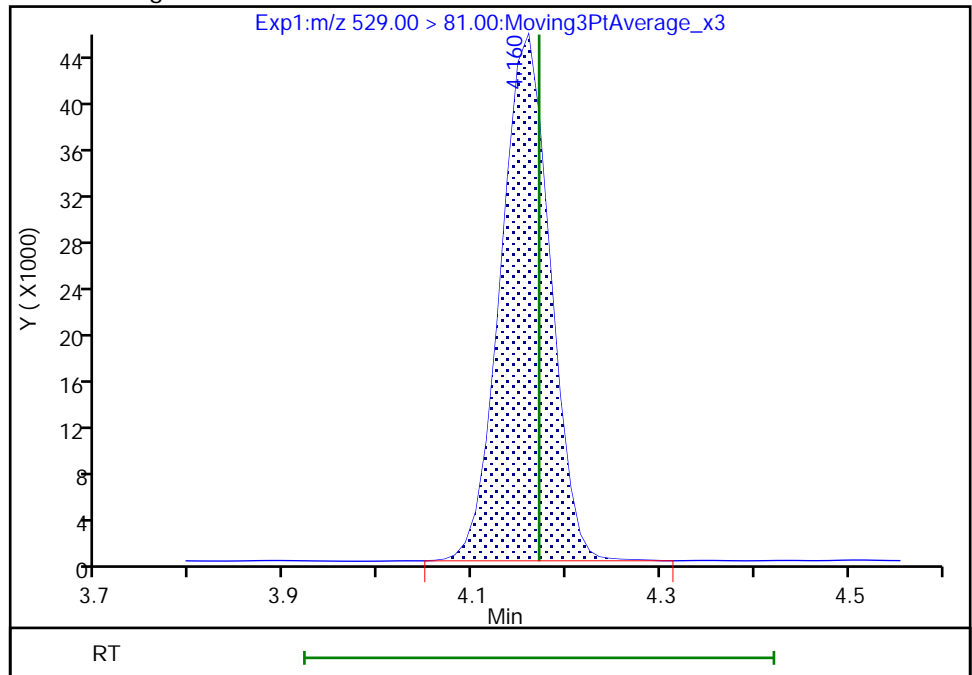
RT: 4.16
Area: 165750
Amount: 1.361813
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 166238
Amount: 1.365823
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:33:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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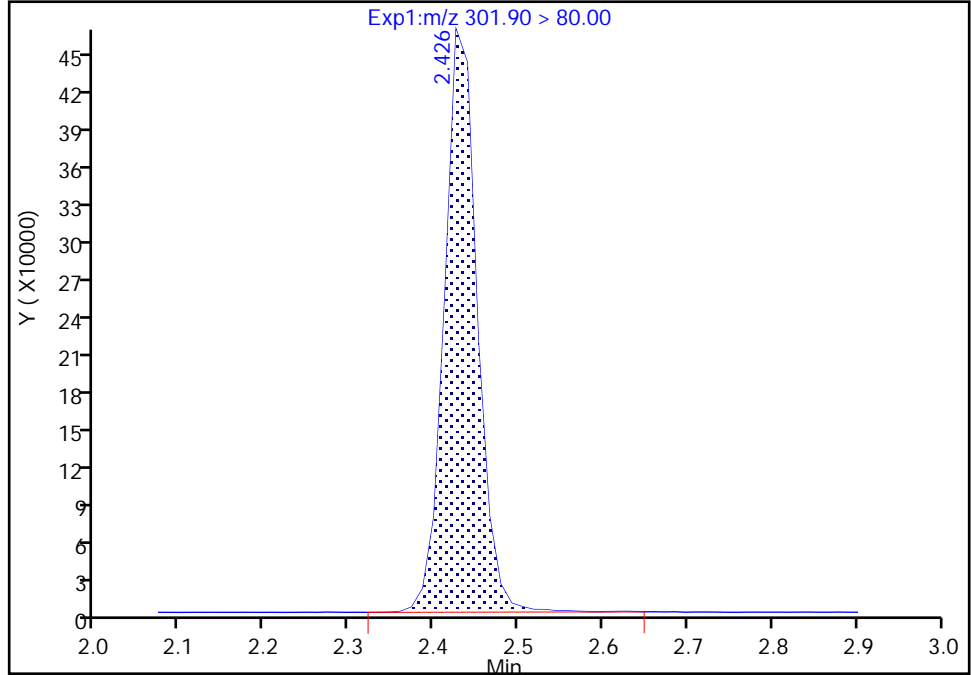
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C09.d
Injection Date: 21-May-2021 23:43:16 Instrument ID: LC812
Lims ID: 200-58440-A-5-A Lab Sample ID: 200-58440-5
Client ID: FIELD BLANK
Operator ID: lc812tech ALS Bottle#: 36 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

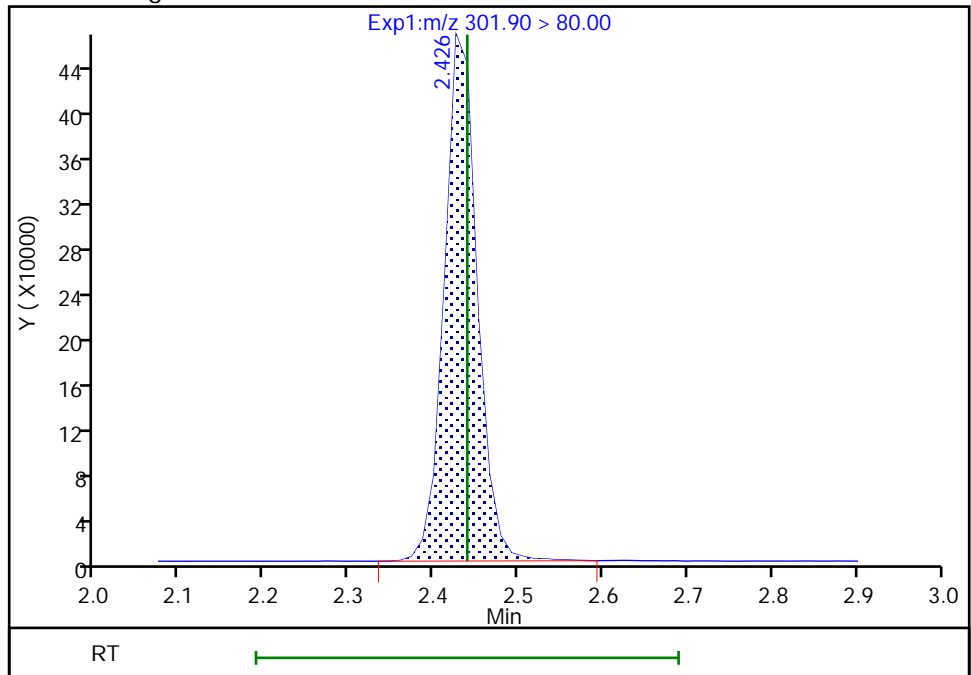
RT: 2.43
Area: 1246257
Amount: 1.079738
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 1244459
Amount: 1.078180
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 10:31:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-167122/2	PA210520ICAL02.d
Level 2	IC 200-167122/3	PA210520ICAL03.d
Level 3	IC 200-167122/4	PA210520ICAL04.d
Level 4	ICIS 200-167122/5	PA210520ICAL05.d
Level 5	IC 200-167122/6	PA210520ICAL06.d
Level 6	IC 200-167122/7	PA210520ICAL07.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)	1.0113 0.8699	0.9658	0.9487	0.9083	0.9054	AveI D		0.934 9			5.4		35.0				
Perfluoropentanoic acid (PFPeA)	1.0749 0.9968	1.0285	1.0258	0.9760	0.9637	AveI D		1.010 9			4.0		35.0				
Perfluorobutanesulfonic acid (PFBS)	1.0559 0.9908	1.0687	1.0511	1.0168	0.9987	AveI D		1.030 3			3.2		35.0				
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.9687 1.5160	1.6798	1.7541	1.7691	1.7702	AveI D		1.743 0			8.4		50.0				
Perfluorohexanoic acid (PFHxA)	1.0700 0.9808	1.0250	0.9985	1.0223	0.9762	AveI D		1.012 1			3.4		35.0				
Perfluoropentanesulfonic acid	1.2577 1.1690	1.1666	1.3015	1.2320	1.1784	AveI D		1.217 5			4.6		50.0				
HFPO-DA	1.7936 1.5855	1.7293	1.6292	1.6741	1.5162	AveI D		1.654 6			6.0		35.0				
Perfluorohexanesulfonic acid (PFHxS)	1.1895 1.0804	1.0976	1.1430	1.0845	1.0565	AveI D		1.108 6			4.4		35.0				
Perfluoroheptanoic acid (PFHpA)	1.0451 0.9881	1.0007	1.0146	0.9767	1.0268	AveI D		1.008 7			2.5		35.0				
DONA	3.0039 2.9646	3.3037	3.1861	3.2704	3.1179	AveI D		3.141 1			4.4		50.0				
Perfluoroheptanesulfonic Acid (PFHpS)	1.1965 1.2378	1.3487	1.2218	1.2316	1.2170	AveI D		1.242 2			4.4		50.0				
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.8768 0.8881	0.8664	0.9294	0.9669	0.8550	AveI D		0.897 1			4.8		35.0				
Perfluorooctanoic acid (PFOA)	1.0625 1.0078	1.0552	1.0363	1.0038	0.9976	AveI D		1.027 2			2.7		35.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

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)	1.0876 1.0541	1.1373	1.0906	1.0671	1.0231	AveI D		1.076 6			3.6		35.0				
Perfluorononanoic acid (PFNA)	0.9869 0.9235	0.9424	1.0129	0.9595	0.9545	AveI D		0.963 3			3.3		35.0				
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.0504 0.9905	1.0625	1.0548	1.0332	1.0235	AveI D		1.035 8			2.6		50.0				
Perfluorononanesulfonic acid	0.7935 0.7827	0.8618	0.7847	0.7950	0.7933	AveI D		0.801 8			3.7		50.0				
Perfluorodecanoic acid (PFDA)	1.0715 1.0272	1.0613	1.0721	1.0372	1.0094	AveI D		1.046 4			2.5		35.0				
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.5208 0.5075	0.5029	0.4607	0.4914	0.5272	AveI D		0.501 7			4.7		35.0				
Perfluorooctanesulfonamide (PFOSA)	1.0118 0.9366	1.0659	0.9679	0.9505	0.9370	AveI D		0.978 3			5.2		35.0				
N-methylperfluorooctanesulfonamide acetic acid (NMeFOSAA)	0.8957 0.8182	0.9731	0.8908	0.8573	0.8395	AveI D		0.879 1			6.2		35.0				
Perfluorodecanesulfonic acid (PFDS)	0.6287 0.6141	0.6299	0.6285	0.6542	0.6311	AveI D		0.631 1			2.1		50.0				
Perfluoroundecanoic acid (PFUnA)	0.9808 0.9343	1.0047	1.0181	1.0657	0.9312	AveI D		0.989 1			5.2		35.0				
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)	1.2047 0.8920	0.9431	0.8516	0.8357	0.8068	L1ID	0.009 6	0.868 9						0.9980		0.9900	
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	0.9247 0.8964	0.9120	0.9311	0.9399	0.9267	AveI D		0.921 8			1.7		50.0				
Perfluorododecanoic acid (PFDoA)	0.9566 0.9469	1.1366	1.0696	0.9346	0.9715	AveI D		1.002 6			8.1		35.0				
10:2 FTS	0.2675 0.2626	0.2630	0.2655	0.2167	0.2691	AveI D		0.257 4			7.8		50.0				
Perfluorododecanesulfonic acid (PFDoS)	0.2120 0.2212	0.2237	0.2217	0.2063	0.2069	AveI D		0.215 3			3.7		50.0				
Perfluorotridecanoic acid (PFTriA)	0.8055 0.7647	0.8541	0.8327	0.7991	0.7949	AveI D		0.808 5			3.9		50.0				
Perfluorotetradecanoic acid (PFTeA)	0.2105 0.1961	0.2094	0.2126	0.1973	0.2011	AveI D		0.204 5			3.5		35.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

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)	1.1603 0.9074	1.0748	1.0211	0.9716	0.9519	L2ID	0.010 9	0.953 9						0.9990		0.9900	
Perfluoro-n-octadecanoic acid (PFODA)	0.8925 0.8312	0.8689	0.8693	0.8448	0.8189	AveID		0.854 3			3.2		50.0				
13C4 PFBA	1.2878 1.2827	1.2822	1.2040	1.2316	1.2324	Ave		1.253 4			2.8		30.0				
13C5 PFPeA	0.9509 0.9126	0.9248	0.9286	0.8654	0.8827	Ave		0.910 8			3.5		30.0				
13C3 PFBS	1.2388 1.1926	1.1146	1.1052	1.0758	1.1031	Ave		1.138 3			5.5		30.0				
M2-4:2 FTS	0.0941 0.1000	0.0878	0.0819	0.0836	0.0828	Ave		0.088 4			8.2		30.0				
13C2 PFHxA	1.0267 0.9986	1.0107	0.9679	0.9525	0.9760	Ave		0.988 7			2.8		30.0				
13C3 HFPO-DA	0.1128 0.1132	0.1068	0.1090	0.1016	0.1130	Ave		0.109 4			4.2		30.0				
18O2 PFHxS	0.9668 0.9114	0.9113	0.8290	0.8352	0.8489	Ave		0.883 8			6.2		30.0				
13C4 PFHpA	1.0110 0.9843	1.0440	0.9565	0.9786	0.9549	Ave		0.988 2			3.5		30.0				
M2-6:2 FTS	0.1184 0.1237	0.1247	0.1110	0.1090	0.1155	Ave		0.117 1			5.5		30.0				
13C4 PFOA	0.9992 1.0000	1.0188	0.9792	1.0125	0.9958	Ave		1.000 9			1.4		30.0				
13C4 PFOS	0.6995 0.6458	0.6406	0.6222	0.5990	0.6193	Ave		0.637 7			5.4		30.0				
13C5 PFNA	0.9298 0.9495	0.9533	0.9118	0.9028	0.8860	Ave		0.922 2			2.9		30.0				
13C2 PFDA	0.8008 0.8182	0.8236	0.8110	0.8063	0.7925	Ave		0.808 7			1.4		30.0				
M2-8:2 FTS	0.1209 0.1261	0.1205	0.1160	0.1240	0.1127	Ave		0.120 0			4.2		30.0				
13C8 FOSA	1.2292 1.1670	1.1304	1.1135	1.1077	1.0974	Ave		1.140 9			4.4		30.0				
d3-NMeFOSAA	0.0527 0.0630	0.0528	0.0519	0.0524	0.0555	Ave		0.054 7			7.7		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

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	0.6237 0.6726	0.6581	0.6443	0.6362	0.6571	Ave		0.648 7			2.7		30.0				
d5-NEtFOSAA	0.0532 0.0560	0.0564	0.0525	0.0568	0.0544	Ave		0.054 9			3.3		30.0				
13C2 PFDoA	0.6609 0.7088	0.6799	0.6477	0.6844	0.6909	Ave		0.678 8			3.2		30.0				
13C2 PFTeDA	0.4620 0.5383	0.5083	0.4836	0.4865	0.5008	Ave		0.496 6			5.2		30.0				
13C2 PFHxDA	0.4457 0.5586	0.5026	0.4636	0.4664	0.4805	Ave		0.486 2			8.3		30.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-167122/2	PA210520ICAL02.d
Level 2	IC 200-167122/3	PA210520ICAL03.d
Level 3	IC 200-167122/4	PA210520ICAL04.d
Level 4	ICIS 200-167122/5	PA210520ICAL05.d
Level 5	IC 200-167122/6	PA210520ICAL06.d
Level 6	IC 200-167122/7	PA210520ICAL07.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)		AveI D	59423	125446	598748	1169987	2961201	0.0500	0.100	0.500	1.00	2.50
			10994962					10.0				
Perfluoropentanoic acid (PFPeA)		AveI D	46640	96347	499294	883409	2257381	0.0500	0.100	0.500	1.00	2.50
			8964012					10.0				
Perfluorobutanesulfonic acid (PFBS)		AveI D	52761	106663	538266	1011370	2584601	0.0442	0.0884	0.442	0.884	2.21
			10292876					8.84				
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)		AveI D	7898	13947	70343	144400	363495	0.0467	0.0934	0.467	0.934	2.34
			1394764					9.34				
Perfluorohexanoic acid (PFHxA)		AveI D	50123	104942	506573	1018445	2528557	0.0500	0.100	0.500	1.00	2.50
			9650754					10.0				
Perfluoropentanesulfonic acid		AveI D	52043	101017	530514	1009421	2490344	0.0469	0.0938	0.469	0.938	2.35
			9847803					9.38				
HFPO-DA		AveI D	9234	18708	93091	177878	454892	0.0500	0.100	0.500	1.00	2.50
			1767823					10.0				
Perfluorohexanesulfonic acid (PFHxS)		AveI D	47749	92199	451998	862086	2166069	0.0455	0.0910	0.455	0.910	2.28
			8829920					9.10				
Perfluoroheptanoic acid (PFHpA)		AveI D	48214	105824	508679	999693	2602210	0.0500	0.100	0.500	1.00	2.50
			9583337					10.0				

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

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
DONA		AveI D	90311 17772326	201934	978874	1930010	4827496	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluoroheptanesulfonic Acid (PFHpS)		AveI D	36355 7499322	83312	379365	734537	1904271	0.0476 9.52	0.0952	0.476	0.952	2.38
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		AveI D	4492 1026605	10373	51279	104494	248364	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveI D	48441 9930130	108896	531923	1062953	2636647	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveI D	32213 6225082	68482	330096	620382	1560486	0.0464 9.28	0.0928	0.464	0.928	2.32
Perfluorononanoic acid (PFNA)		AveI D	41870 8641082	91002	484113	905989	2244435	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid		AveI D	31244 5874842	64254	320628	603248	1567914	0.0466 9.32	0.0932	0.466	0.932	2.33
Perfluorononanesulfonic acid		AveI D	24313 4781958	53681	245704	478119	1251773	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveI D	39151 8281865	88539	455733	874615	2122981	0.0500 10.0	0.100	0.500	1.00	2.50
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)		AveI D	2753 604140	5882	26834	61051	151028	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (PFOSA)		AveI D	56751 10770745	122056	564949	1101127	2728814	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveI D	2155 507548	5204	24226	47019	123538	0.0500 10.0	0.100	0.500	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

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	19344	39403	197588	395111	999920	0.0482	0.0964	0.482	0.964	2.41
			3767258					9.64				
Perfluoroundecanoic acid (PFUnA)		AveI D	27912	66985	343860	709099	1623844	0.0500	0.100	0.500	1.00	2.50
			6192228					10.0				
N-ethylperfluorooctanesulfonamide acetic acid (NEtFOSAA)		L1ID	2922	5392	23449	49661	116555	0.0500	0.100	0.500	1.00	2.50
			492138					10.0				
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid		AveI D	27802	55743	286050	554657	1434846	0.0471	0.0942	0.471	0.942	2.36
			5373953					9.42				
Perfluorododecanoic acid (PFDoA)		AveI D	28848	78287	363129	668972	1781438	0.0500	0.100	0.500	1.00	2.50
			6613458					10.0				
10:2 FTS		AveI D	1423	3095	15559	27096	77582	0.0482	0.0964	0.482	0.964	2.41
			314614					9.64				
Perfluorododecanesulfonic acid (PFDoS)		AveI D	6550	14050	69995	125092	329199	0.0484	0.0968	0.484	0.968	2.42
			1362962					9.68				
Perfluorotridecanoic acid (PFTriA)		AveI D	24293	58829	282699	571973	1457567	0.0500	0.100	0.500	1.00	2.50
			5340447					10.0				
Perfluorotetradecanoic acid (PFTeA)		AveI D	4437	10781	53904	100400	267272	0.0500	0.100	0.500	1.00	2.50
			1040192					10.0				
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	23597	54718	248140	473951	1213765	0.0500	0.100	0.500	1.00	2.50
			4994513					10.0				
Perfluoro-n-octadecanoic acid (PFODA)		AveI D	18151	44233	211231	412073	1044198	0.0500	0.100	0.500	1.00	2.50
			4574719					10.0				
13C4 PFBA	13PF OA	Ave	1469031	1623523	1577761	1610139	1635314	1.25	1.25	1.25	1.25	1.25
			1579986					1.25				

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

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	13PF OA	Ave	1084771 1124095	1170979	1216889	1131413	1171244	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PF OA	Ave	1314200 1366151	1312530	1346916	1308082	1361279	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PF OA	Ave	100293 115000	103786	100254	102031	102671	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PF OA	Ave	1171151 1229991	1279751	1268386	1245278	1295153	1.25 1.25	1.25	1.25	1.25	1.25
13C3 HFPO-DA	13PF OA	Ave	128711 139372	135232	142848	132814	150007	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PF OA	Ave	1043277 1062004	1091572	1027735	1032926	1065678	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PF OA	Ave	1153303 1212382	1321896	1253443	1279392	1267167	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PF OA	Ave	128347 144796	149981	138230	135367	145555	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PF OA	Ave	1139763 1231684	1289990	1283177	1323677	1321432	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PF OA	Ave	762787 760503	775404	779486	748644	785655	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PF OA	Ave	1060591 1169588	1207102	1194826	1180302	1175729	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PF OA	Ave	913502 1007790	1042841	1062710	1054090	1051640	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1 Analy Batch No.: 167122

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/20/2021 16:55 Calibration End Date: 05/20/2021 17:37 Calibration ID: 45872

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	13PF OA	Ave	132162 148814	146209	145607	155299	143237	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PF OA	Ave	1402238 1437435	1431417	1459190	1448161	1456144	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PF OA	Ave	60151 77541	66849	67986	68554	73582	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PF OA	Ave	711492 828481	833367	844376	831704	871893	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PF OA	Ave	60638 68967	71468	68842	74280	72233	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PF OA	Ave	753951 873004	860951	848766	894734	916815	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PF OA	Ave	527071 663103	643650	633741	636062	664584	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PF OA	Ave	508425 687996	636351	607503	609743	637537	1.25 1.25	1.25	1.25	1.25	1.25

Curve Type Legend

Ave = Average ISTD
AveID = Average isotope dilution
L1ID = Linear 1/conc IsoDil
L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 20-May-2021 16:55:39 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0046072-002 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-May-2021 18:23:25 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1654

First Level Reviewer: chirgwinb Date: 20-May-2021 18:23:25

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	2.100	0.0	0.597	1469031	1.28	103	12891	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.100	2.100	0.0	1.000	59423	0.0541		108	12.7	M
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1084771	1.31	104	3634	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.426	2.426	0.0	1.000	46640	0.0532		106	3.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.453	2.452	0.001	0.697	1314200	1.27	109	480007	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.453	2.452	0.001	1.000	52761	0.0453	Target=2.17	102	145	
298.90 > 99.00	2.453	2.452	0.001	1.000	25759		2.05(1.08-3.25)	102	21.4	
D 60 M2-4:2 FTS	329.00 > 81.00	2.758	2.758	0.0	0.784	100293	1.24	107	141	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.758	2.758	0.0	1.000	7898	0.0527		113	252	
D 7 13C2 PFHxA	315.00 > 270.00	2.795	2.794	0.001	0.794	1171151	1.30	104	2666	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.795	2.794	0.001	1.000	50123	0.0529	Target=12.10	106	14.8	
313.00 > 119.00	2.795	2.794	0.001	1.000	4018		12.47(6.05-18.15)	106	9.7	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.795	2.794	0.001	0.886	52043	0.0484	Target=3.51	103	226	
349.00 > 99.00	2.795	2.794	0.001	0.886	14014		3.71(1.75-5.26)	103	31.9	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.902	2.902	0.0	0.825	128711	1.29	103	975	

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	2.902	0.0	1.000	9234	0.0542		108	3.0	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.154	3.153	0.001	1.000	47749	0.0488	Target=4.34	107	189	M
399.00 > 99.00	3.154	3.153	0.001	1.000	10469		4.56(2.17-6.50)	107	12.8	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.153	0.001	0.896	1043277	1.29		109	2325	
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.164	0.0	0.899	1153303	1.28		102	2245	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.164	3.164	0.0	1.000	48214	0.0518	Target=3.57	104	24.9	
363.00 > 169.00	3.164	3.164	0.0	1.000	13982		3.45(1.78-5.35)	104	40.2	
77 DONA										
377.00 > 251.00	3.197	3.196	0.001	0.833	90311	0.0450	Target=2.42	95.6	229	
377.00 > 85.00	3.197	3.196	0.001	0.833	36728		2.46(1.21-3.62)	95.6	88.2	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.510	3.510	0.0	0.915	36355	0.0458	Target=6.39	96.3	297	
449.00 > 99.00	3.501	3.510	-0.009	0.913	5852		6.21(3.19-9.58)	96.3	26.4	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	128347	1.20		101	647	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.510	3.510	0.0	1.000	4492	0.0463		97.7	67.7	M
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1139763	1.25		99.8	2362	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1140727	1.25			2543	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.519	3.519	0.0	1.000	48441	0.0517	Target=2.42	103	18.5	
413.00 > 169.00	3.519	3.519	0.0	1.000	21329		2.27(1.21-3.63)	103	75.4	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	762787	1.31		110	2731	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	32213	0.0469	Target=5.78	101	62.8	M
499.00 > 99.00	3.836	3.836	0.0	1.000	7432		4.33(2.89-8.66)	101	22.9	M
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.097	1060591	1.26		101	3096	
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	41870	0.0512	Target=6.76	102	14.0	
463.00 > 169.00	3.859	3.858	0.001	1.000	5135		8.15(3.38-10.14)	102	53.3	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.992	3.992	0.0	1.041	31244	0.0473		101	360	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	24313	0.0475	Target=2.92	99.0	417	
549.00 > 99.00	4.126	4.126	0.0	1.076	8450		2.88(1.46-4.38)	99.0	34.3	
D 23 13C2 PFDA										
515.00 > 470.00	4.149	4.148	0.001	1.179	913502	1.24		99.0	3455	

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	4.149	4.148	0.001	1.000	39151	0.0512	Target=8.21	102	55.1	
513.00 > 169.00	4.149	4.148	0.001	1.000	4111		9.52(4.11-12.32)	102	39.7	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.182	132162	1.21		101	839	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.160	4.160	0.0	1.000	2753	0.0497		104	38.9	M
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.214	0.011	1.201	1402238	1.35		108	2585	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.214	0.011	1.000	56751	0.0517		103	335	
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.291	4.291	0.0	1.219	60151	1.20		96.4	627	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.003	2155	0.0509		102	17.2	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.380	0.011	1.145	19344	0.0480	Target=2.74	99.6	320	
599.00 > 99.00	4.391	4.380	0.011	1.145	7614		2.54(1.37-4.11)	99.6	79.4	
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.413	0.0	1.254	711492	1.20		96.2	2645	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.413	4.413	0.0	1.000	27912	0.0496	Target=7.58	99.2	40.9	
563.00 > 169.00	4.413	4.413	0.0	1.000	4079		6.84(3.79-11.36)	99.2	73.3	M
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.424	4.424	0.0	1.257	60638	1.21		96.8	1058	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.435	4.424	0.011	1.002	2922	0.0583		117	96.4	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.505	4.505	0.0	1.174	27802	0.0473		100	524	
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.642	0.011	1.322	753951	1.22		97.4	3817	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.000	28848	0.0477	Target=5.88	95.4	15.6	
613.00 > 169.00	4.642	4.653	-0.011	0.998	5025		5.74(2.94-8.82)	95.4	111	
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.672	4.672	0.0	1.123	1423	0.0501		104	69.9	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.822	4.822	0.0	1.257	6550	0.0477	Target=0.46	98.5	210	
699.00 > 99.00	4.822	4.822	0.0	1.257	15389		0.43(0.23-0.69)	98.5	183	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.866	4.866	0.0	1.046	24293	0.0498	Target=3.79	99.6	16.7	
663.00 > 169.00	4.866	4.866	0.0	1.046	6985		3.48(1.89-5.68)	99.6	161	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.053	0.0	1.436	527071	1.16		93.0	3421	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.053	0.0	1.000	4437	0.0515	Target=1.07	103	133	
713.00 > 219.00	5.043	5.053	-0.010	0.998	4102		1.08(0.53-1.60)	103	174	

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	5.406	5.406	0.0	1.536	508425	1.15		91.7	2424	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.406	5.406	0.0	1.000	23597	0.0494	Target=3.53	98.9	19.1	
813.00 > 169.00	5.406	5.406	0.0	1.000	6917		3.41(1.77-5.30)	98.9	255	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.738	5.747	-0.009	1.062	18151	0.0522	Target=3.39	104	26.6	
913.00 > 169.00	5.729	5.747	-0.018	1.060	5120		3.55(1.69-5.08)	104	212	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC1_00009

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d

Injection Date: 20-May-2021 16:55:39

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

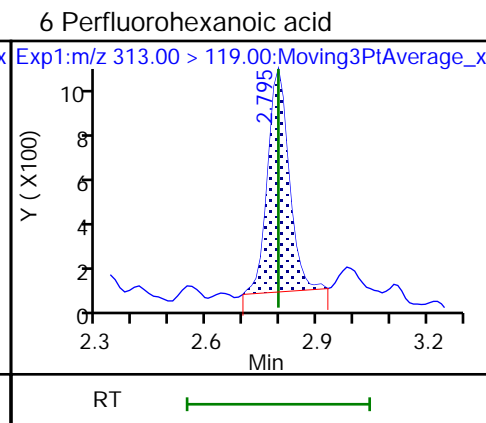
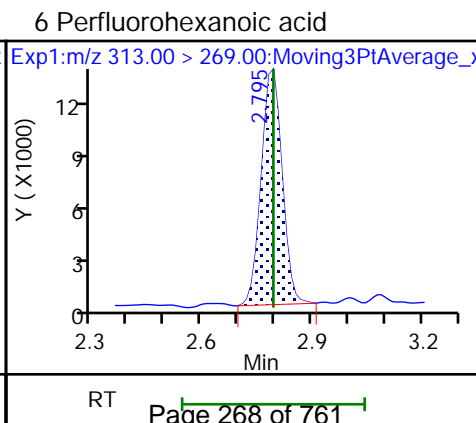
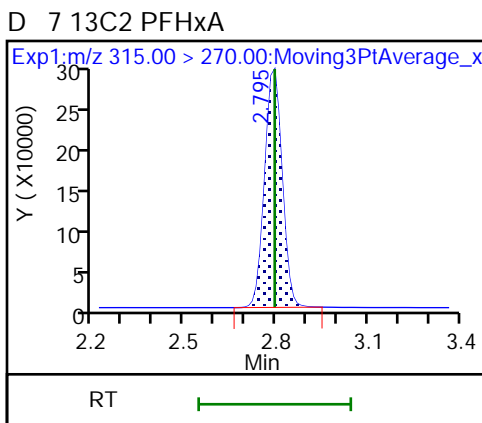
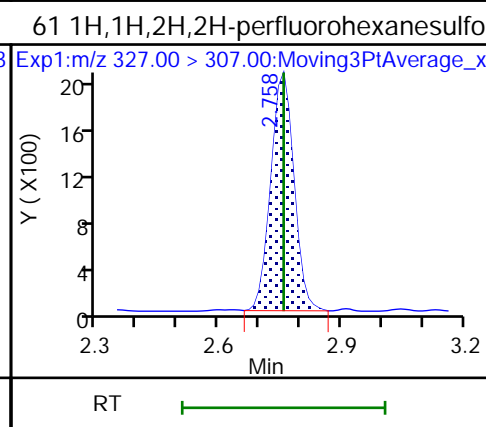
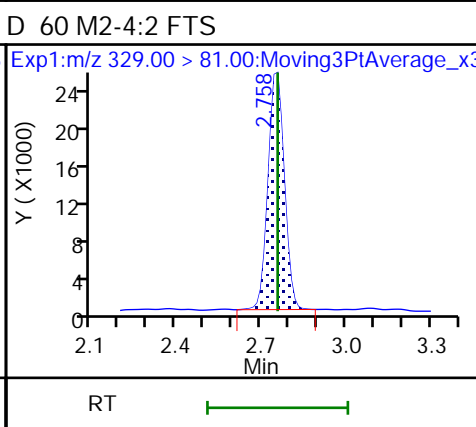
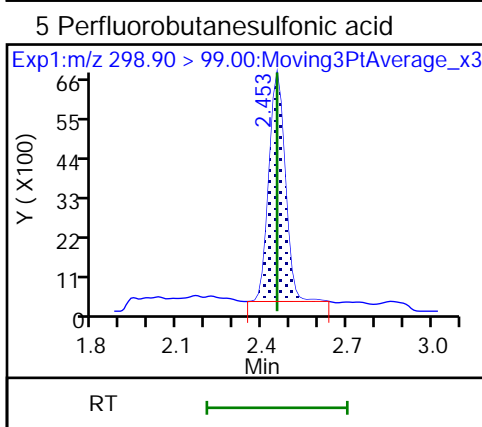
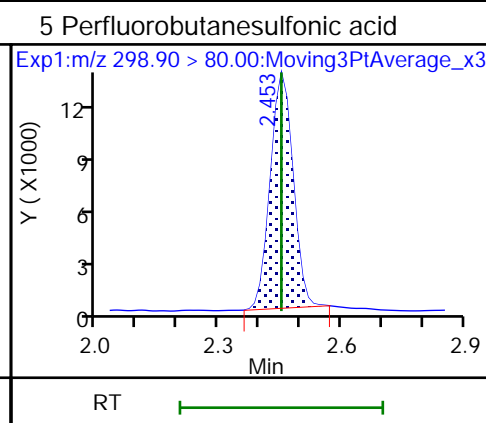
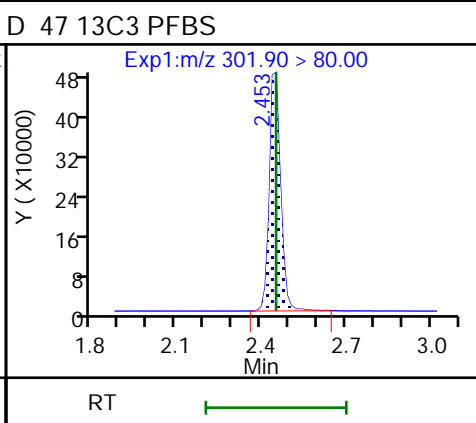
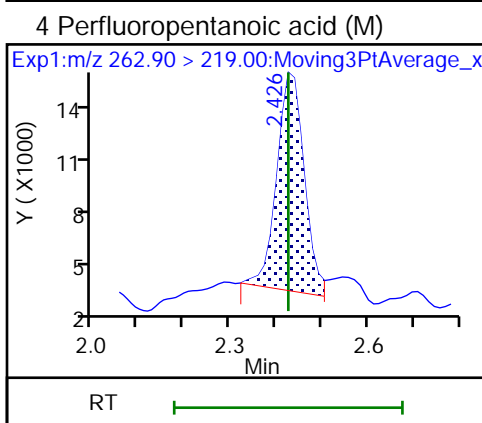
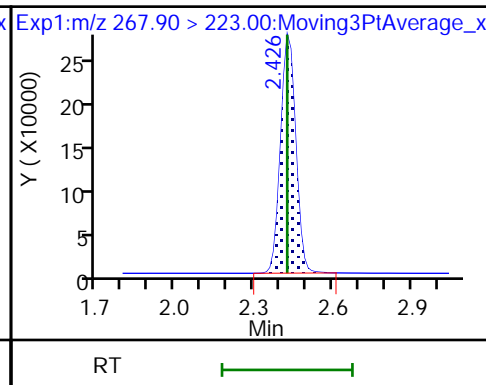
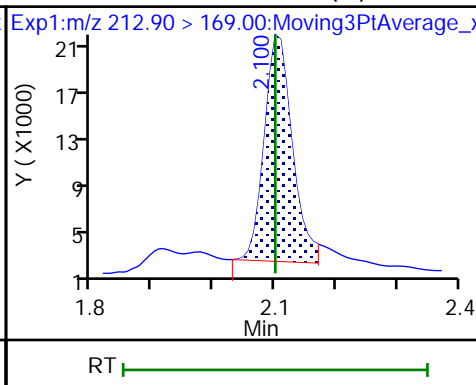
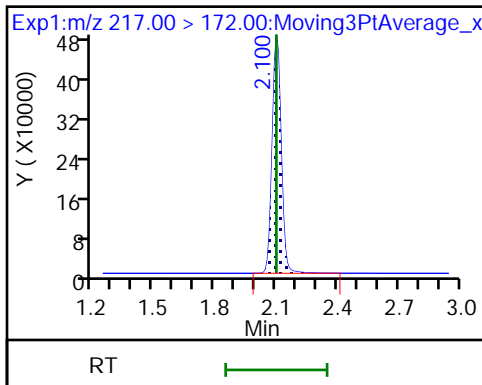
Method: PFC_LC812

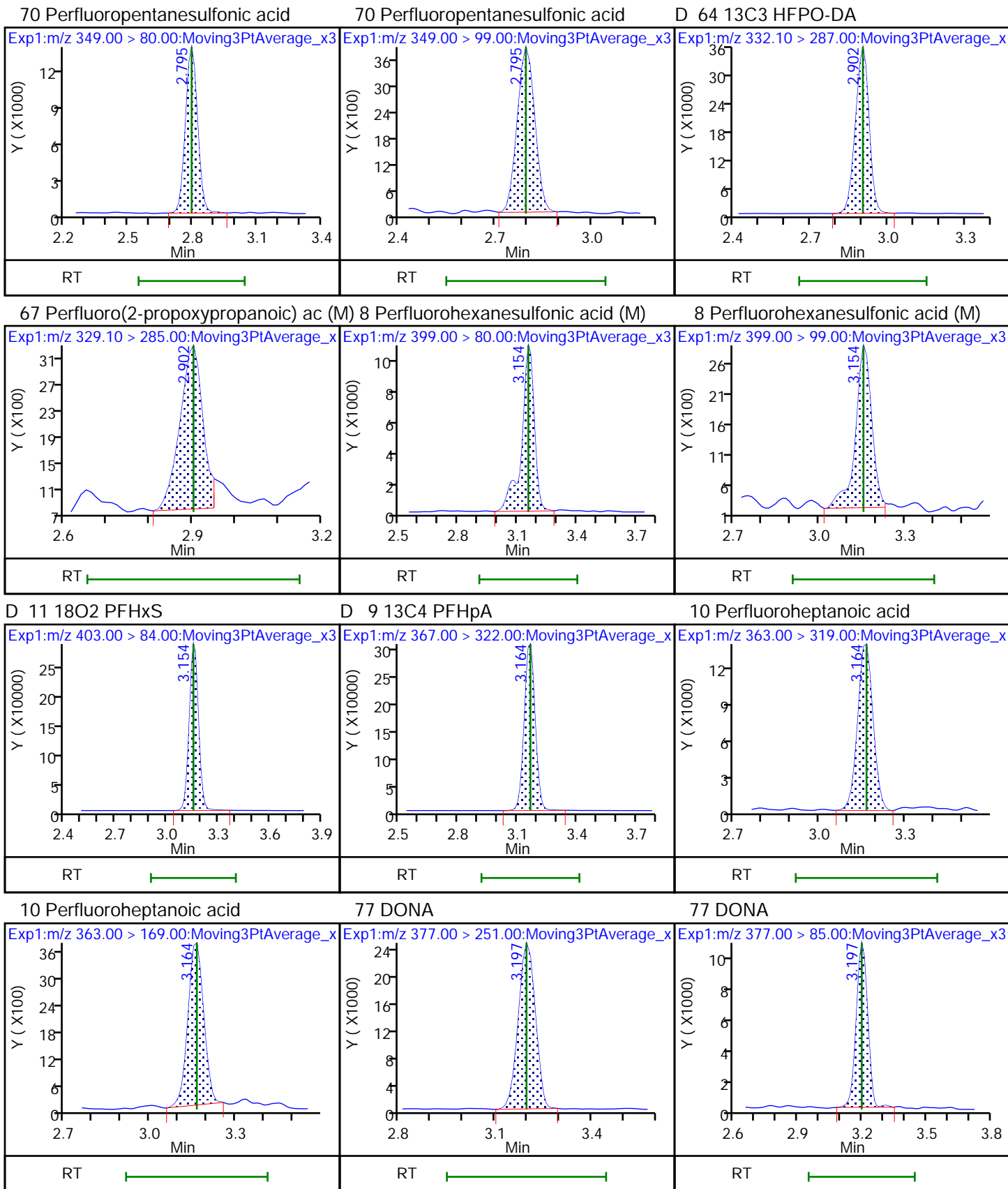
Limit Group: LC_PFC_ICAL

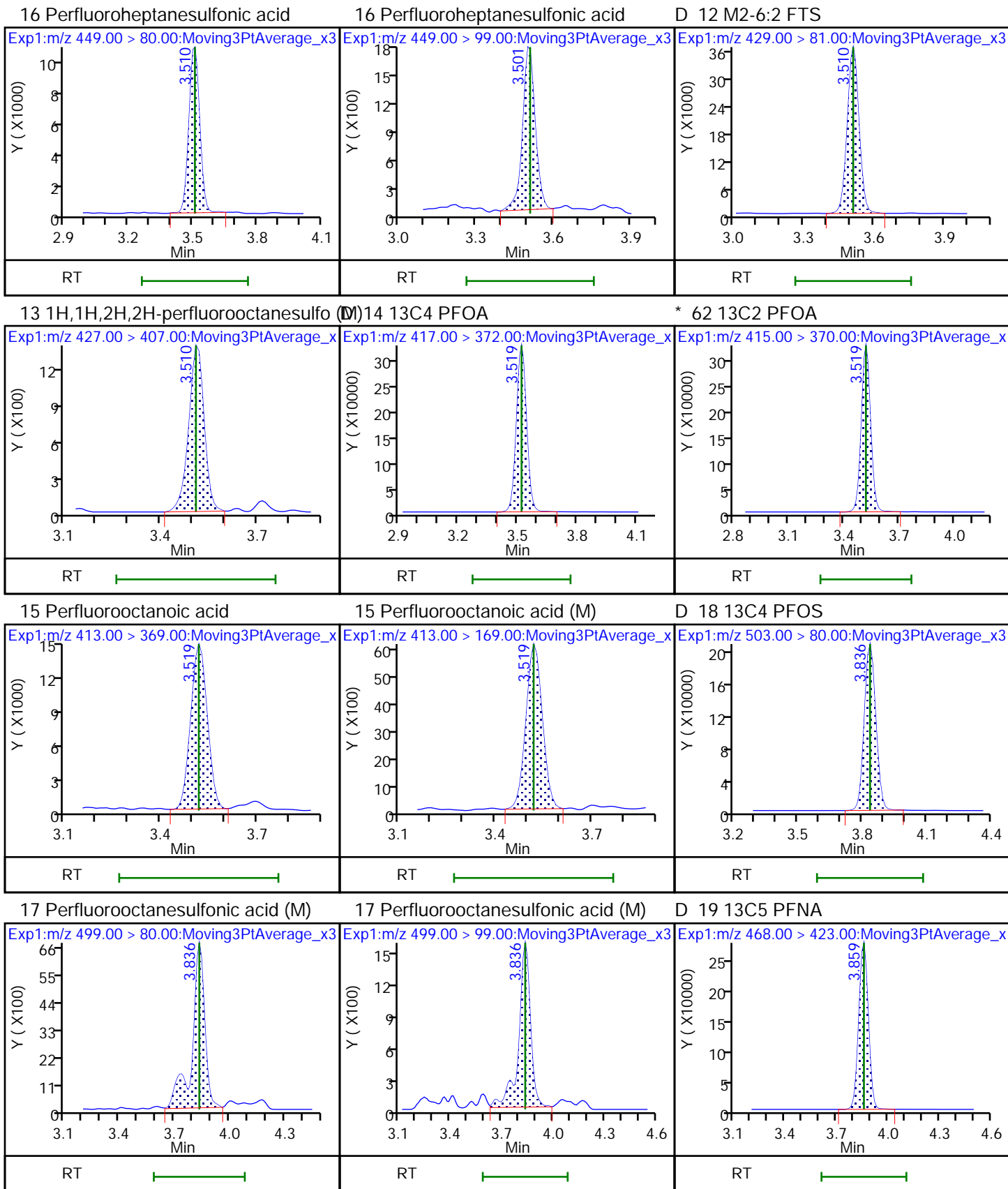
D 1 13C4 PFBA

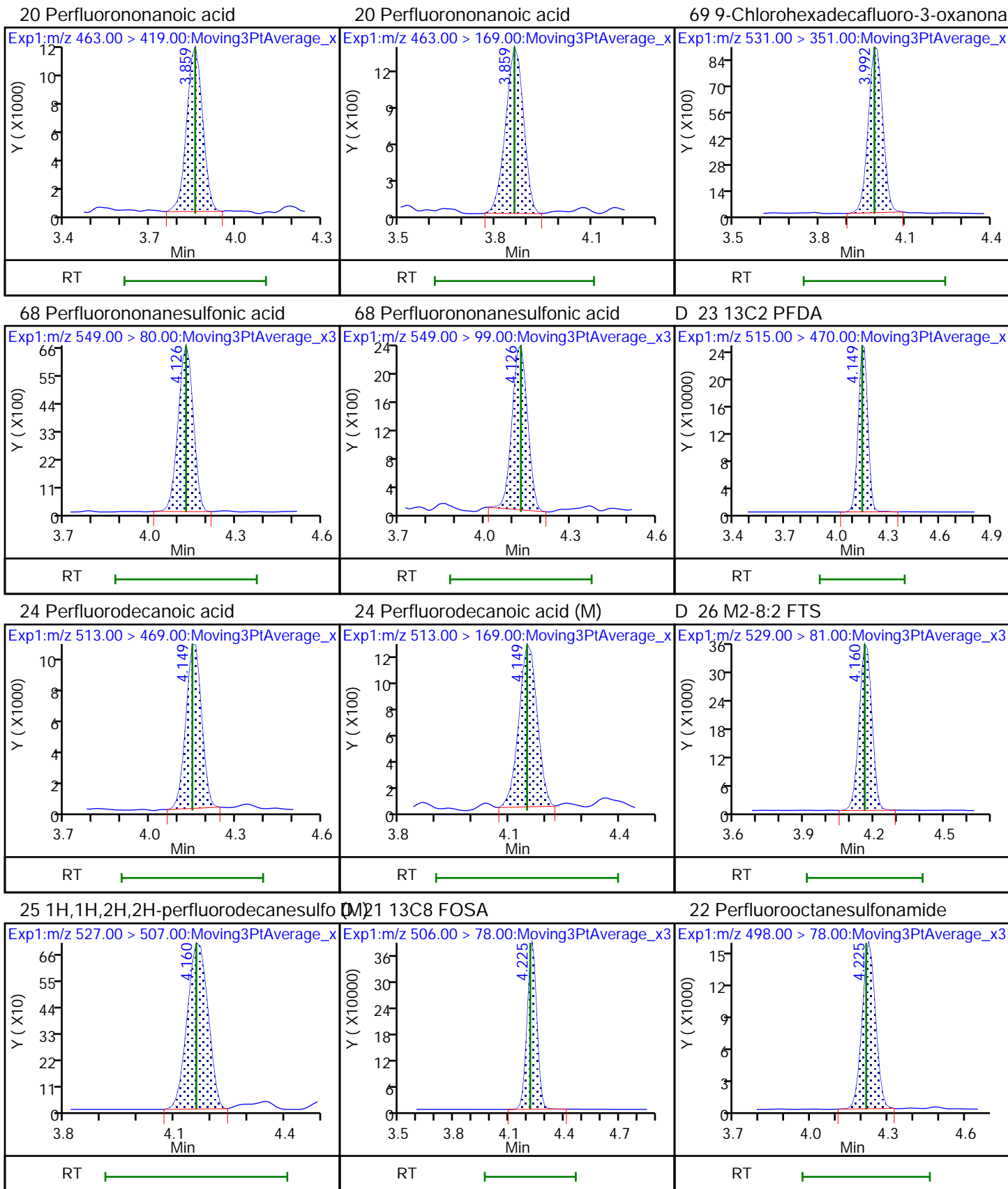
2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA





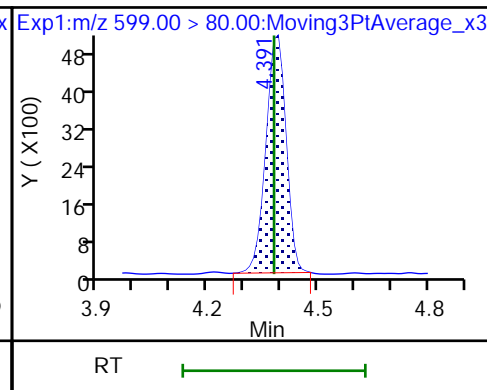
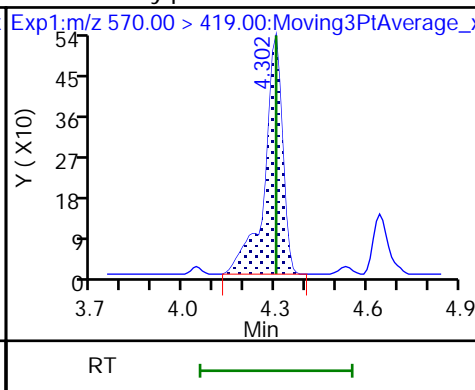
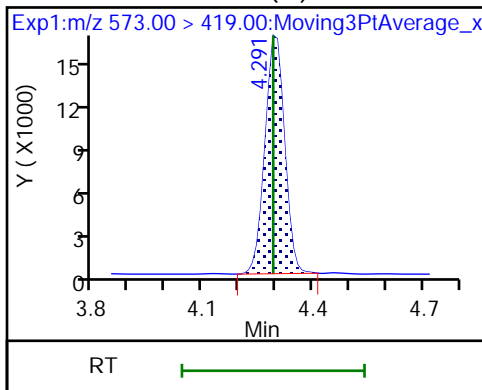




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami

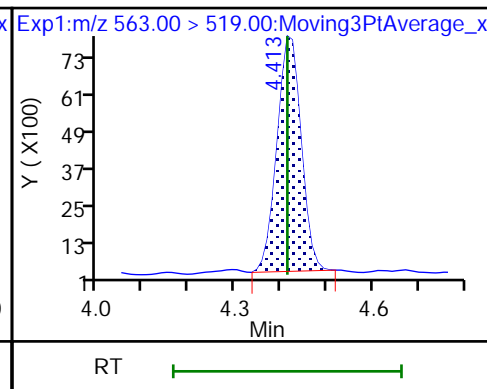
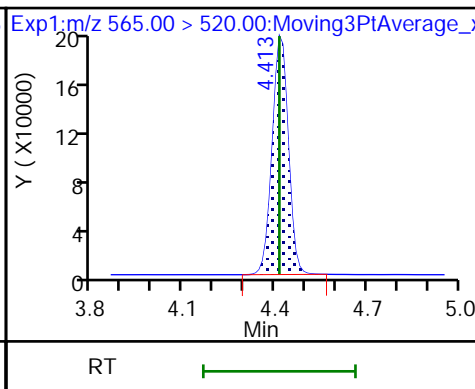
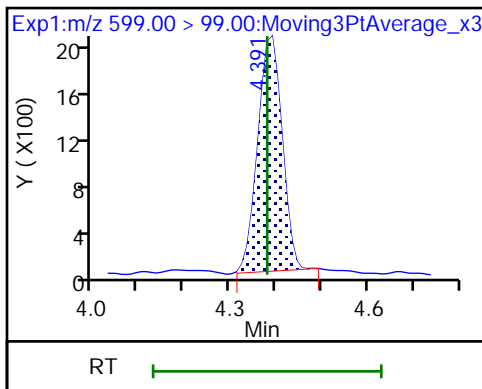
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

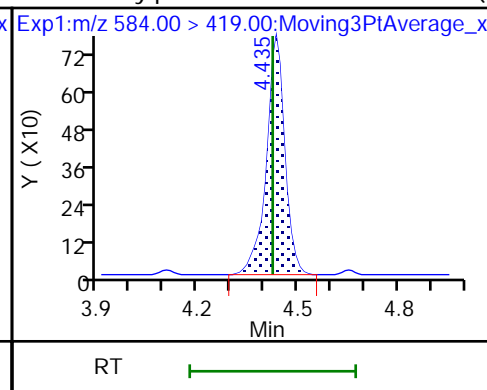
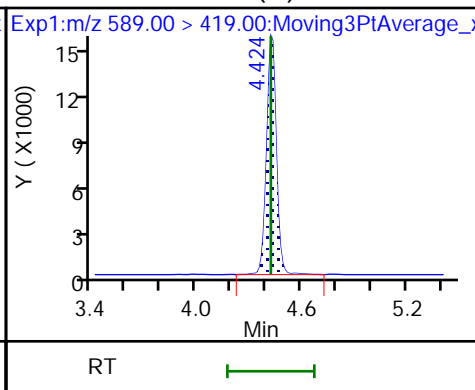
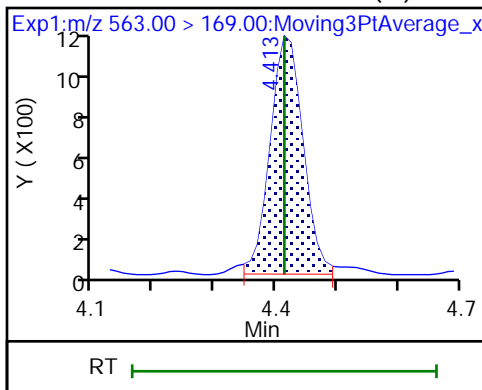
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA (M)

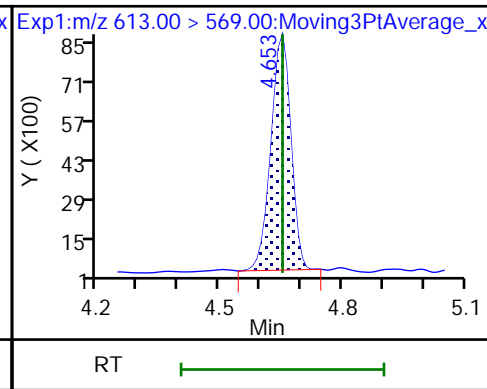
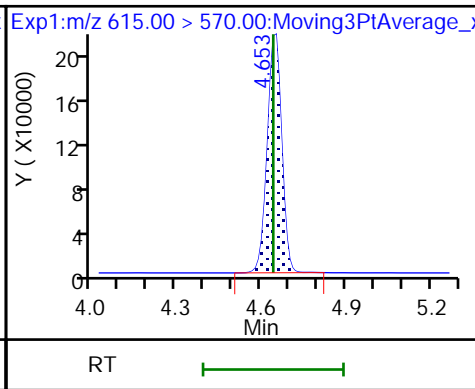
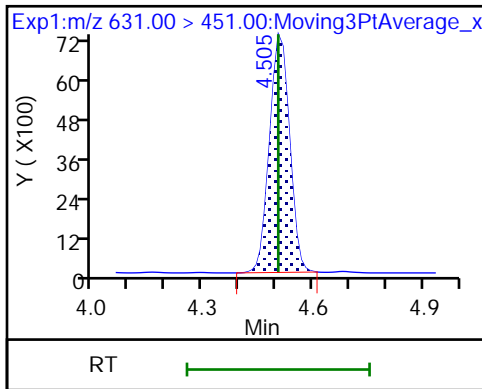
33 N-ethylperfluorooctanesulfonamid (M)

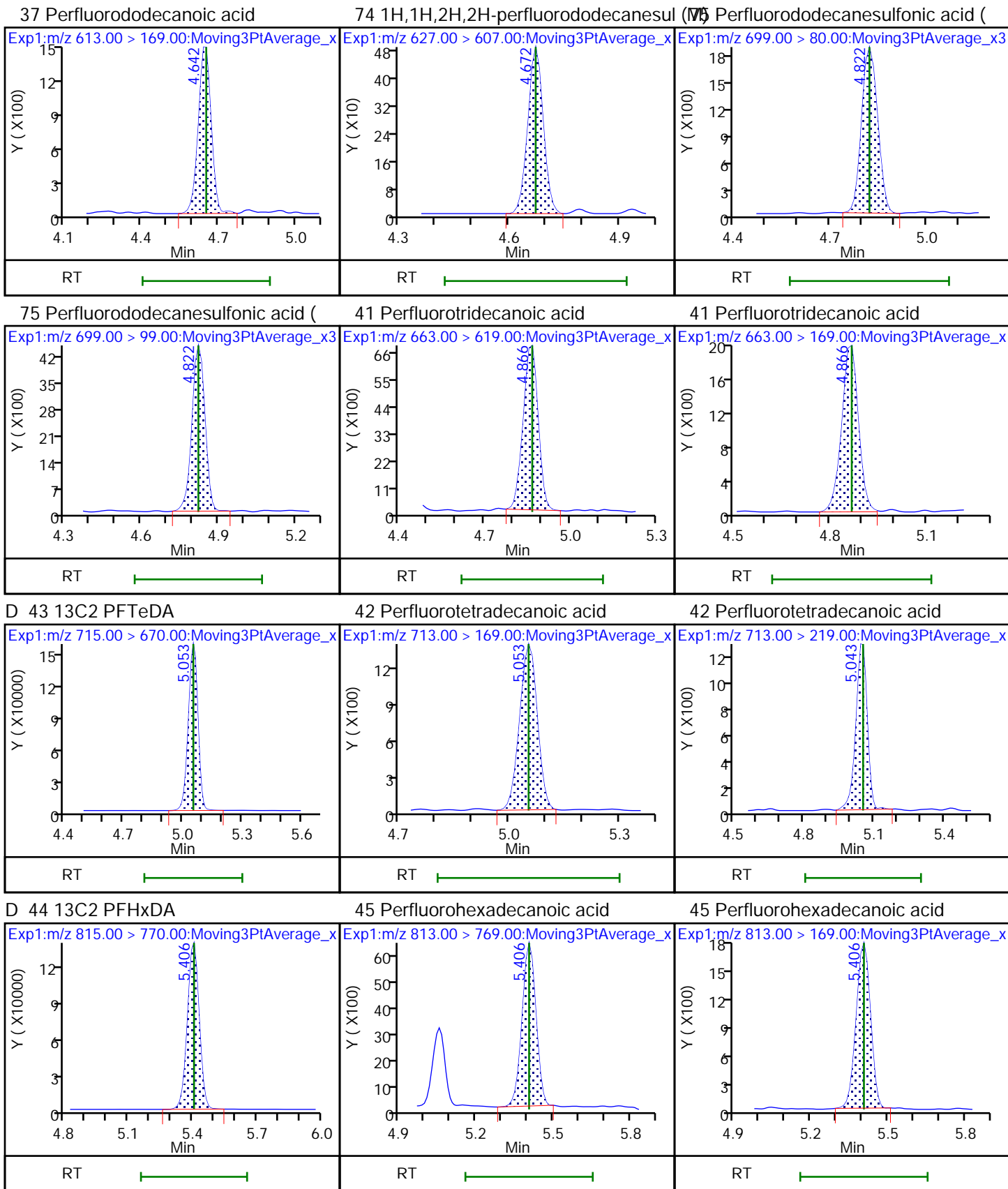


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

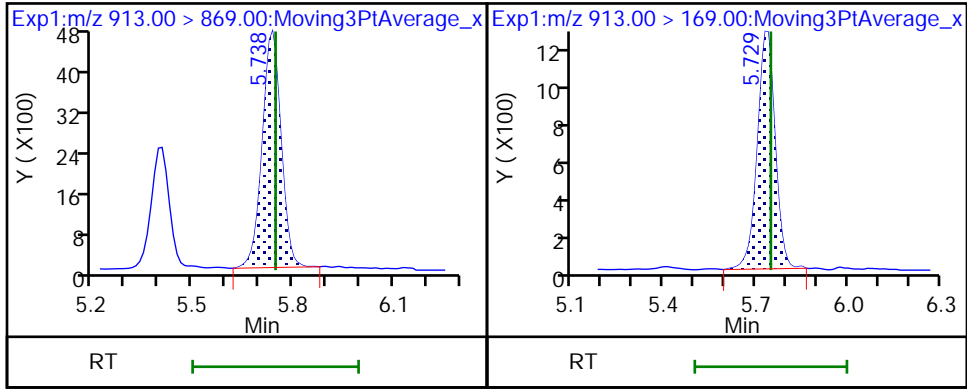
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Euofins TestAmerica, Burlington

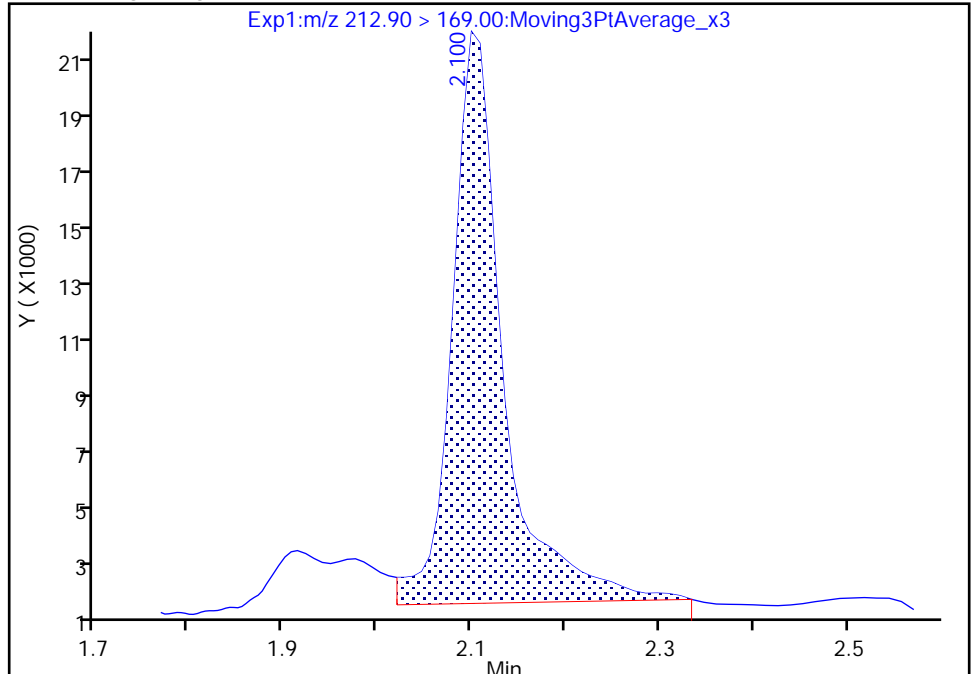
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Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

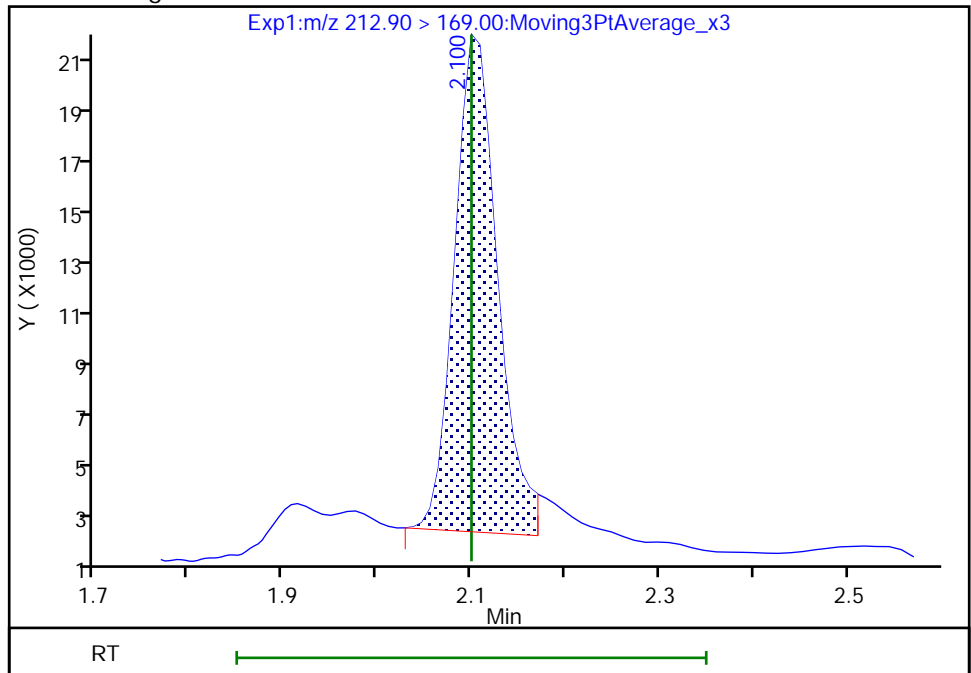
RT: 2.10
Area: 73542
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 59423
Amount: 0.054084
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:11:56
Audit Action: Manually Integrated

Euofins TestAmerica, Burlington

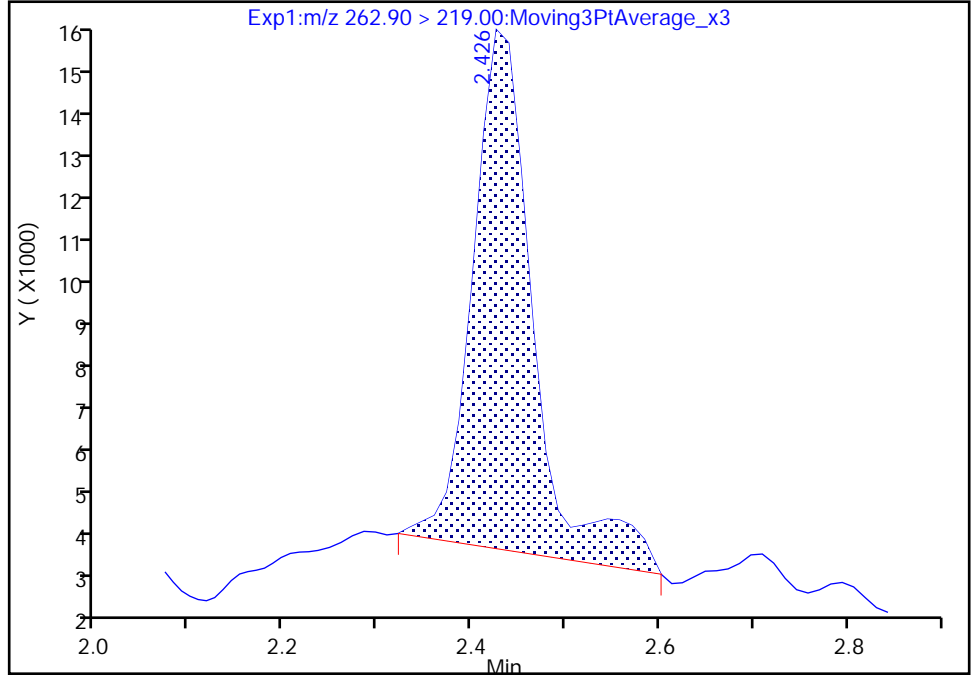
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Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

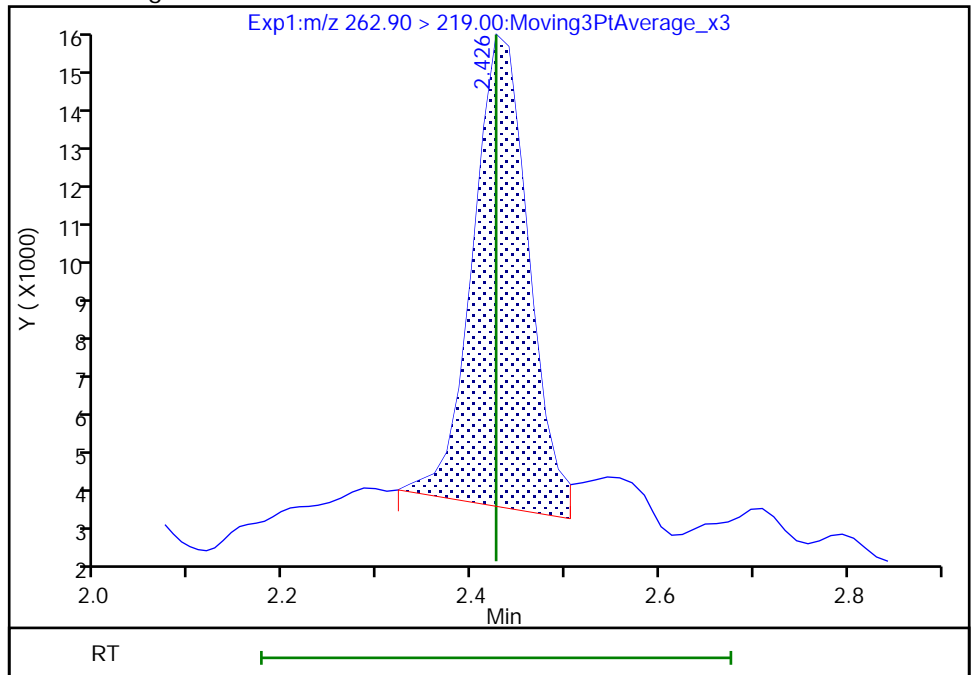
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Area: 50630
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 46640
Amount: 0.053163
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:12:09
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

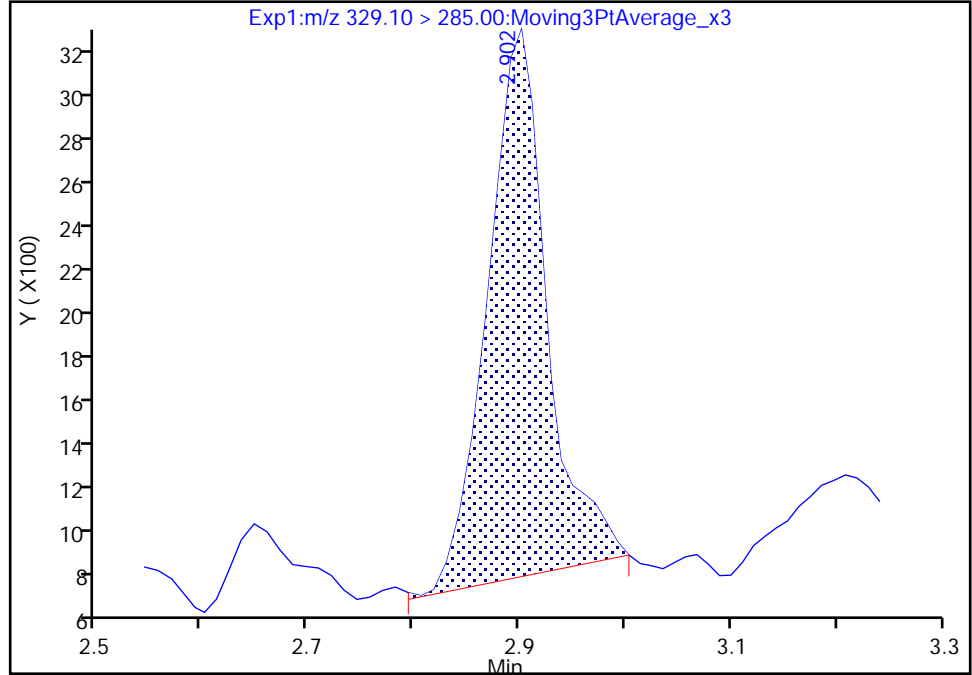
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Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

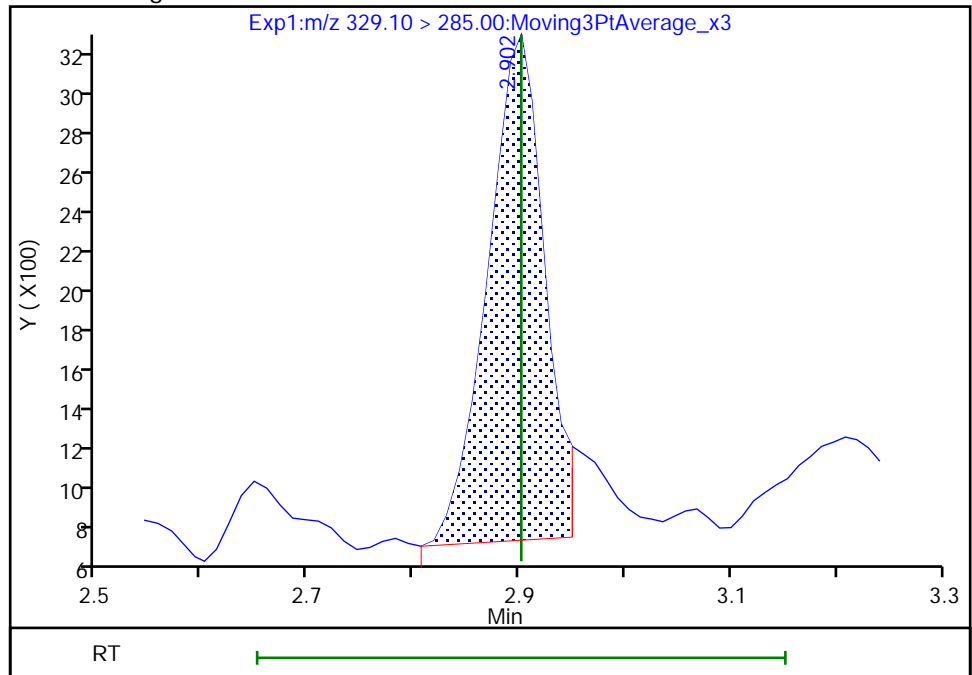
RT: 2.90
Area: 9535
Amount: 0.031459
Amount Units: ng/ml

Processing Integration Results



RT: 2.90
Area: 9234
Amount: 0.054197
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:12:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

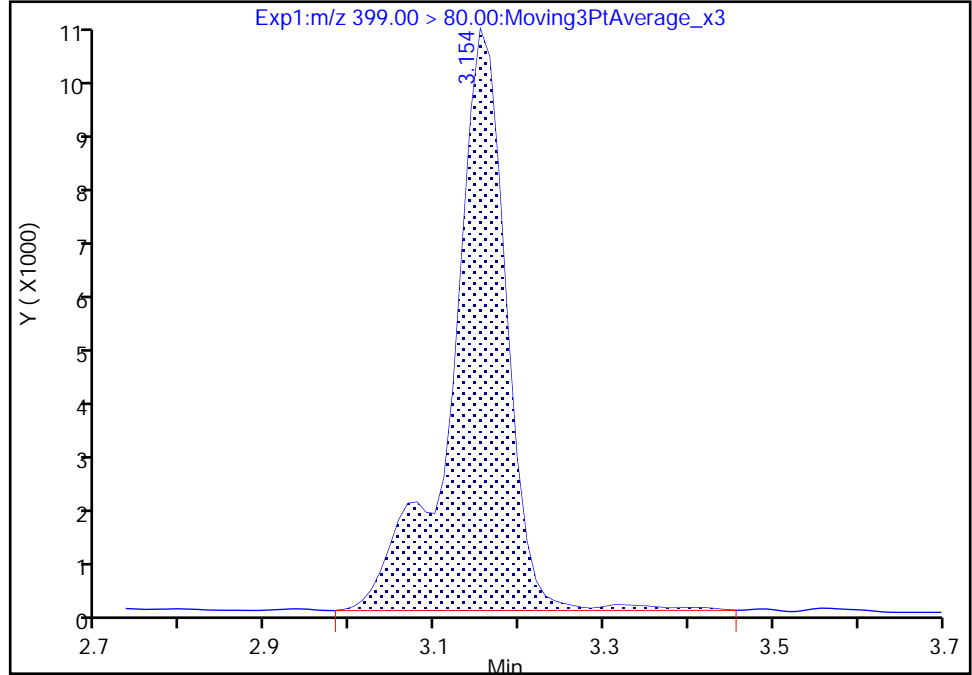
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Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

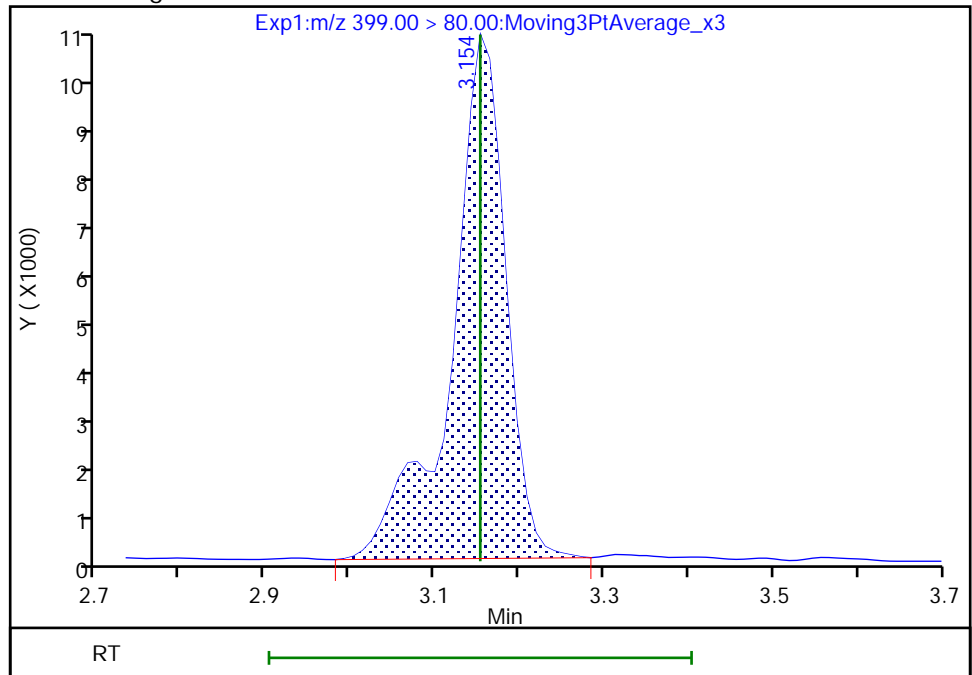
RT: 3.15
Area: 48655
Amount: 0.045500
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 47749
Amount: 0.048820
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:12:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

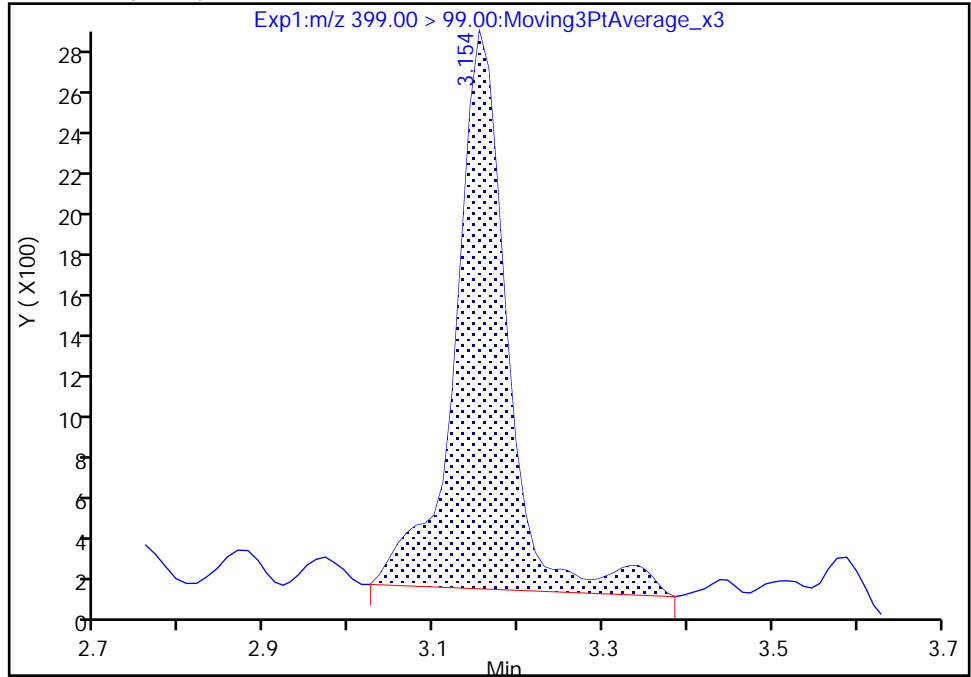
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

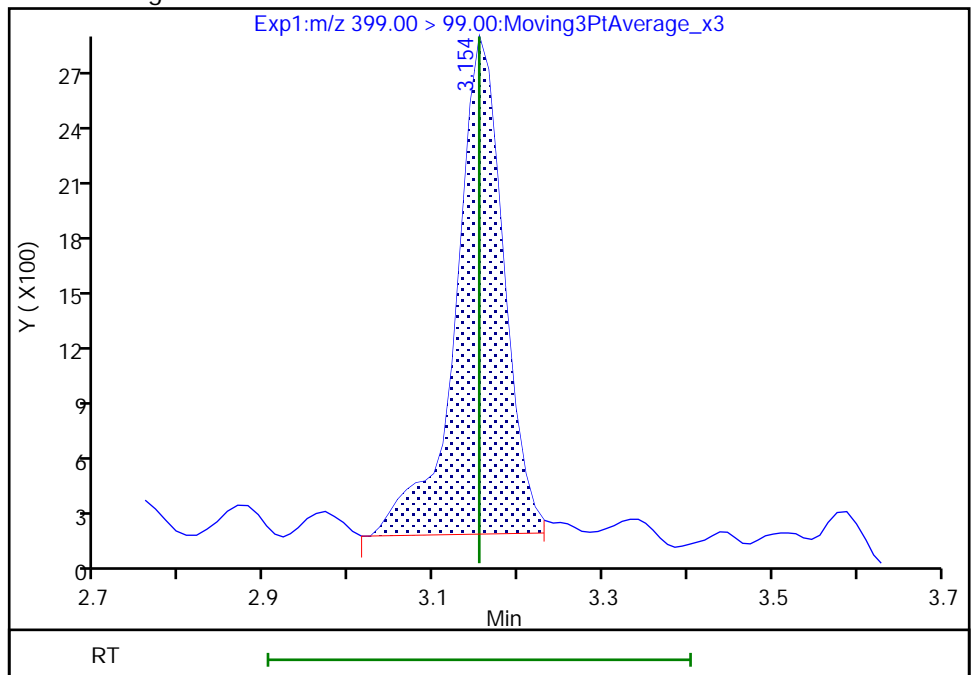
RT: 3.15
Area: 11629
Amount: 0.045500
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 10469
Amount: 0.048820
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:12:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

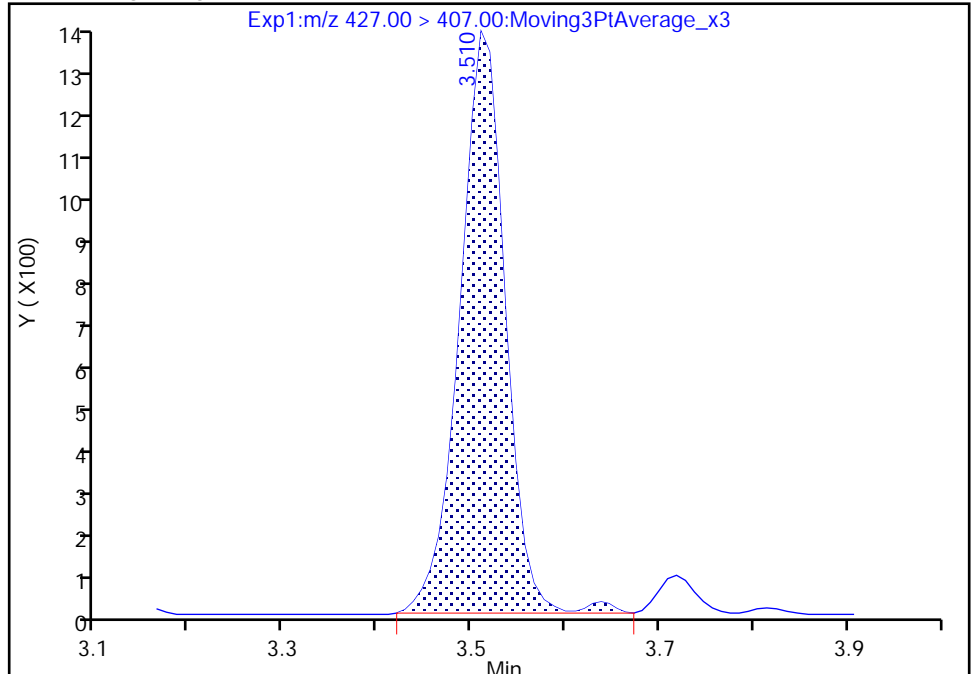
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

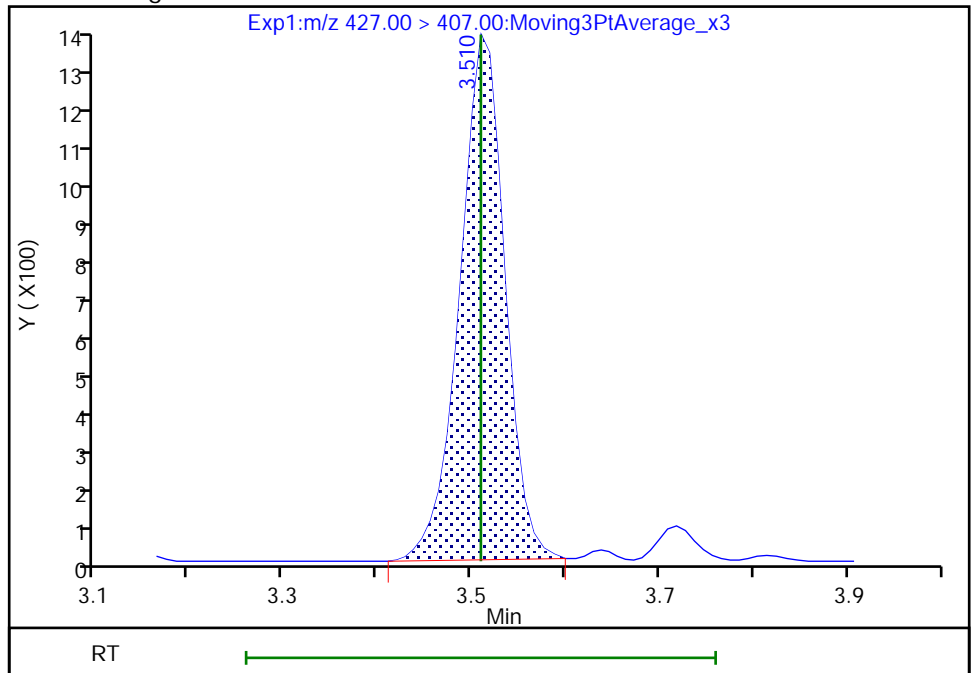
RT: 3.51
Area: 4550
Amount: 0.047400
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 4492
Amount: 0.046329
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:13:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

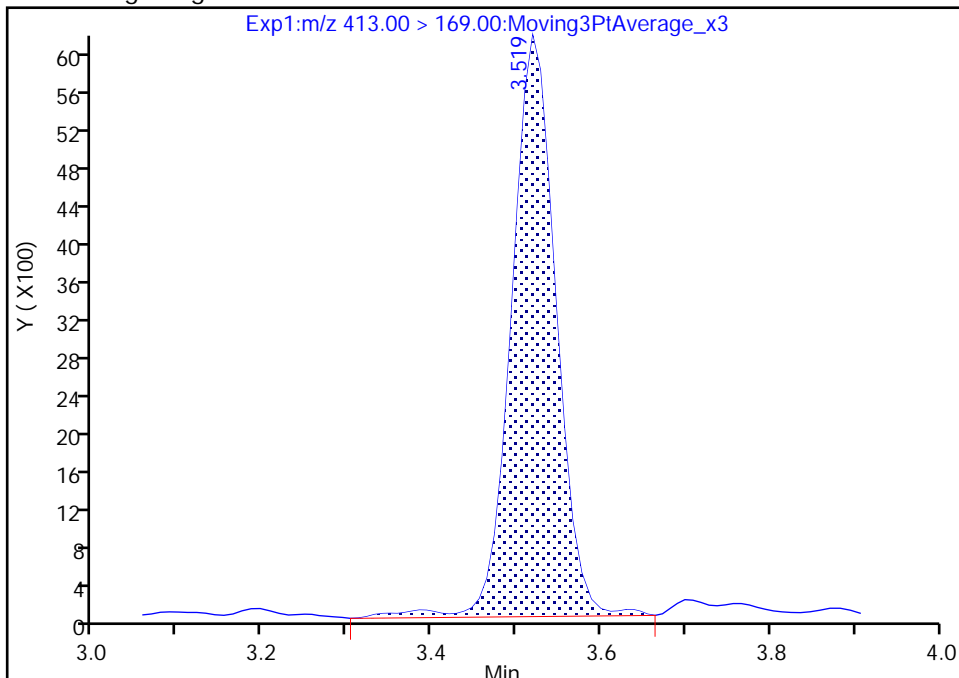
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

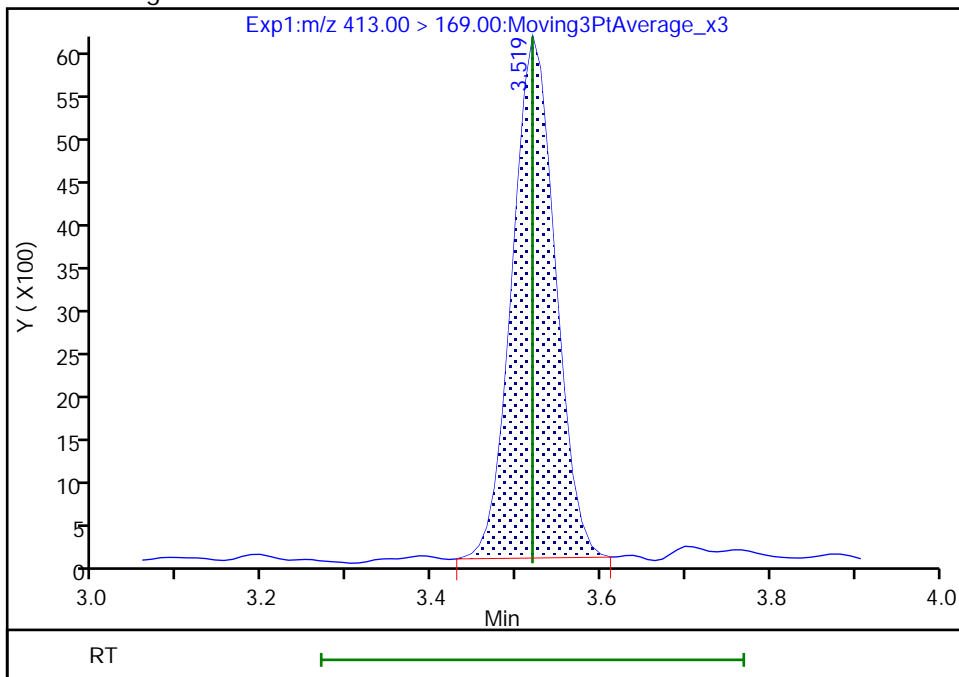
RT: 3.52
Area: 22251
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 21329
Amount: 0.051719
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

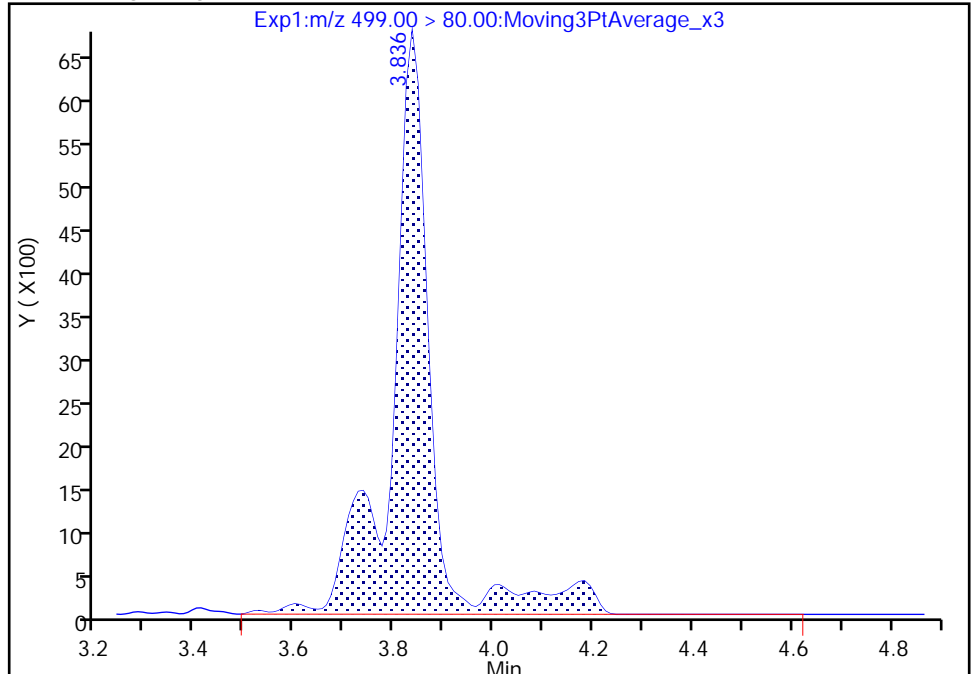
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

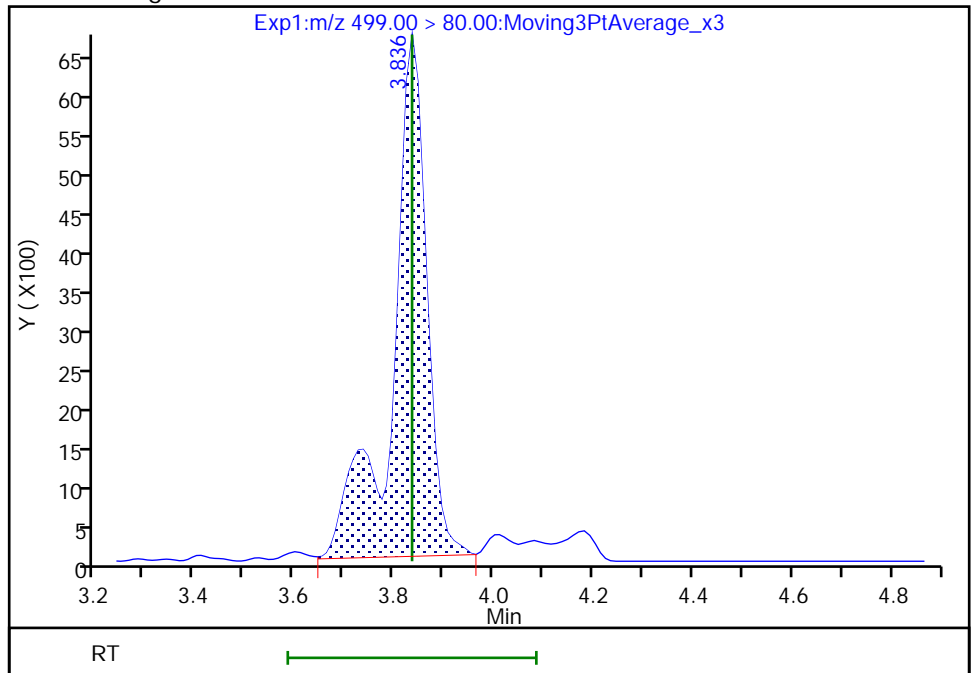
RT: 3.84
Area: 37799
Amount: 0.046400
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 32213
Amount: 0.046874
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:13:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

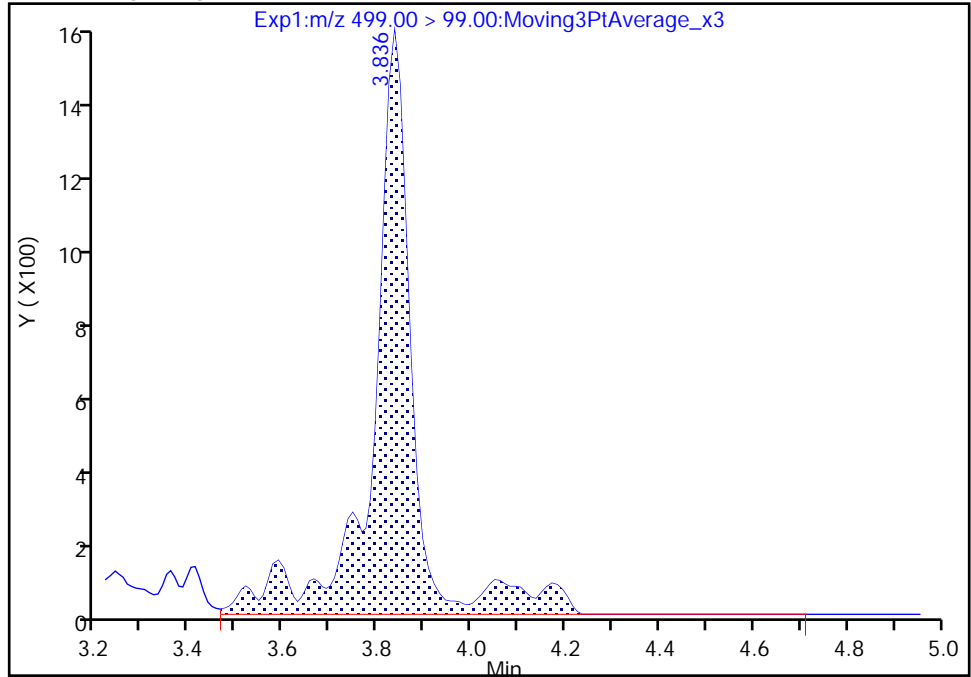
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

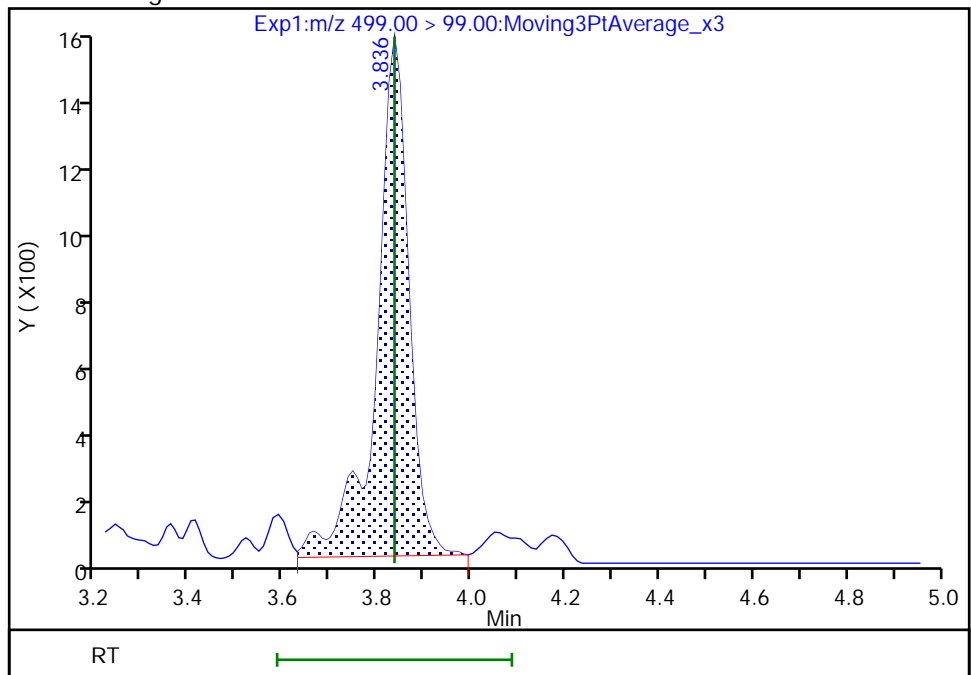
RT: 3.84
Area: 9427
Amount: 0.046400
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 7432
Amount: 0.046874
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:13:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

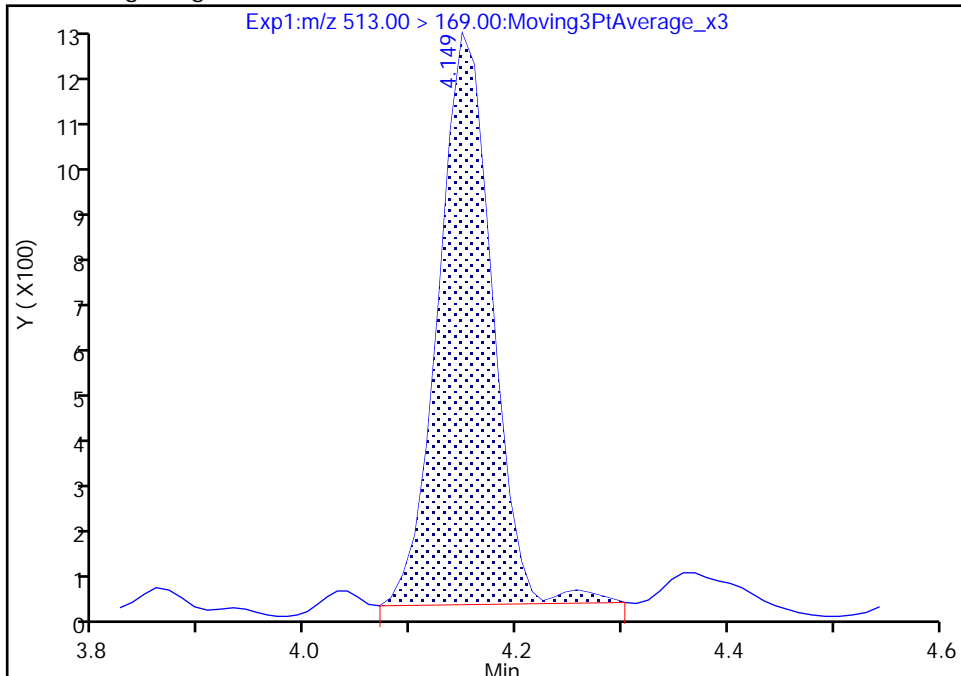
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

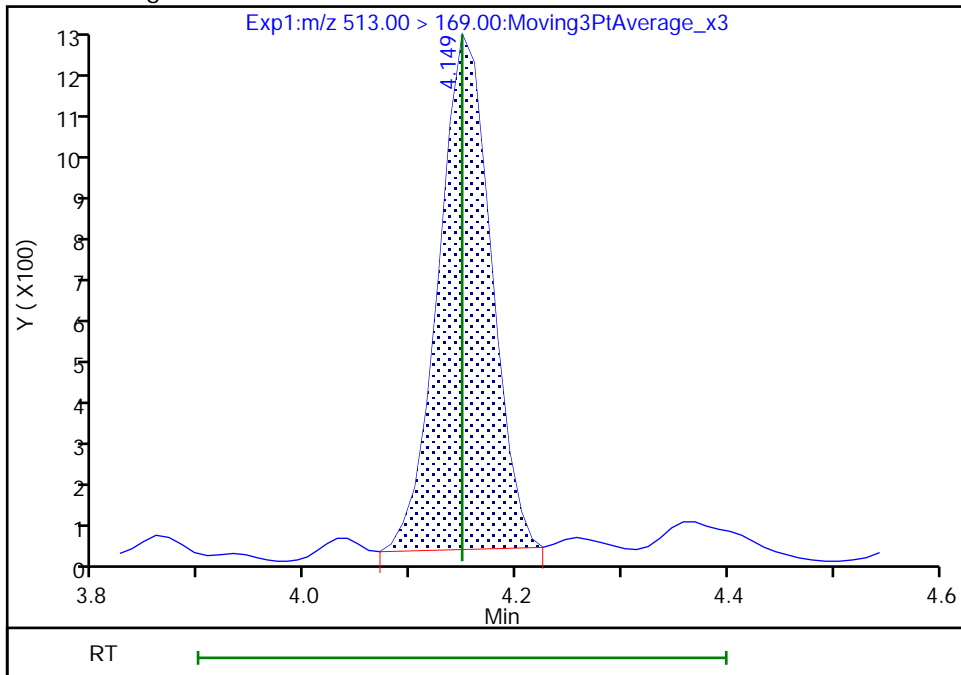
RT: 4.15
Area: 4209
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 4111
Amount: 0.051196
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:14:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

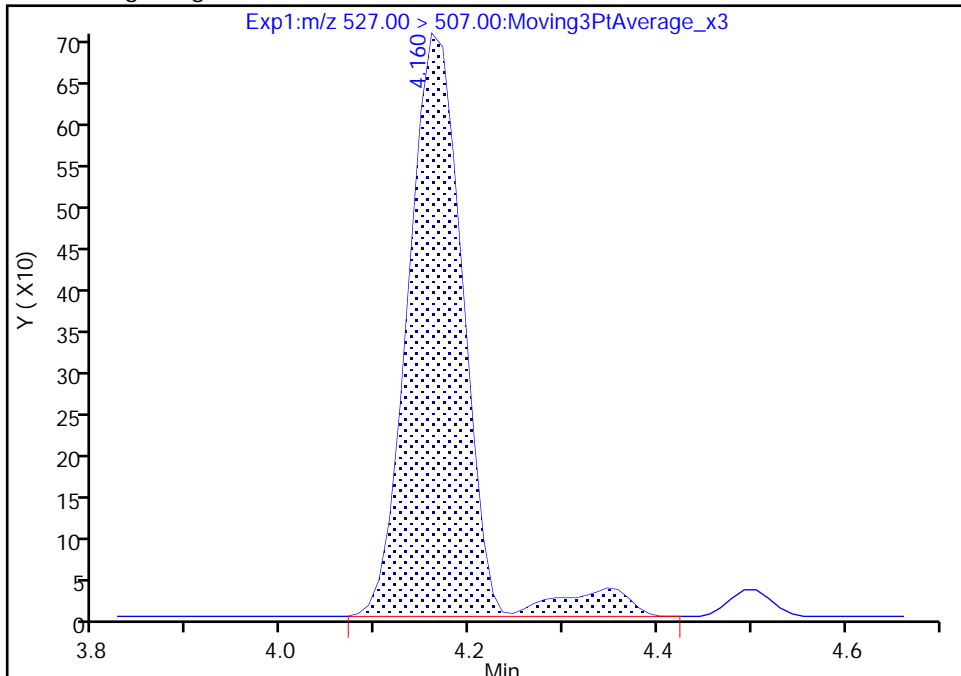
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

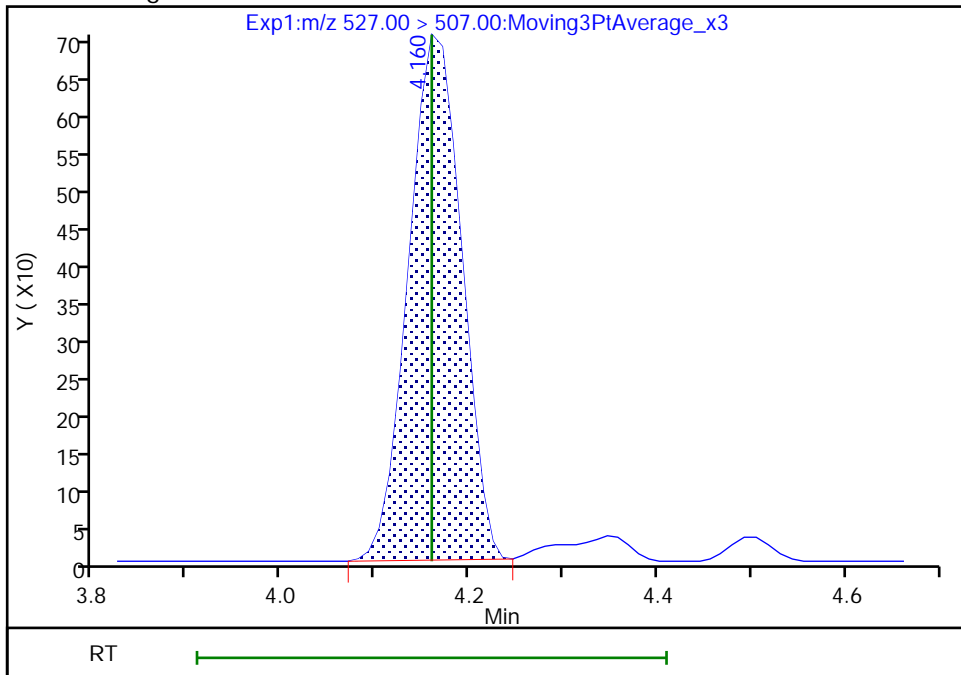
RT: 4.16
Area: 2946
Amount: 0.036235
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 2753
Amount: 0.049716
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

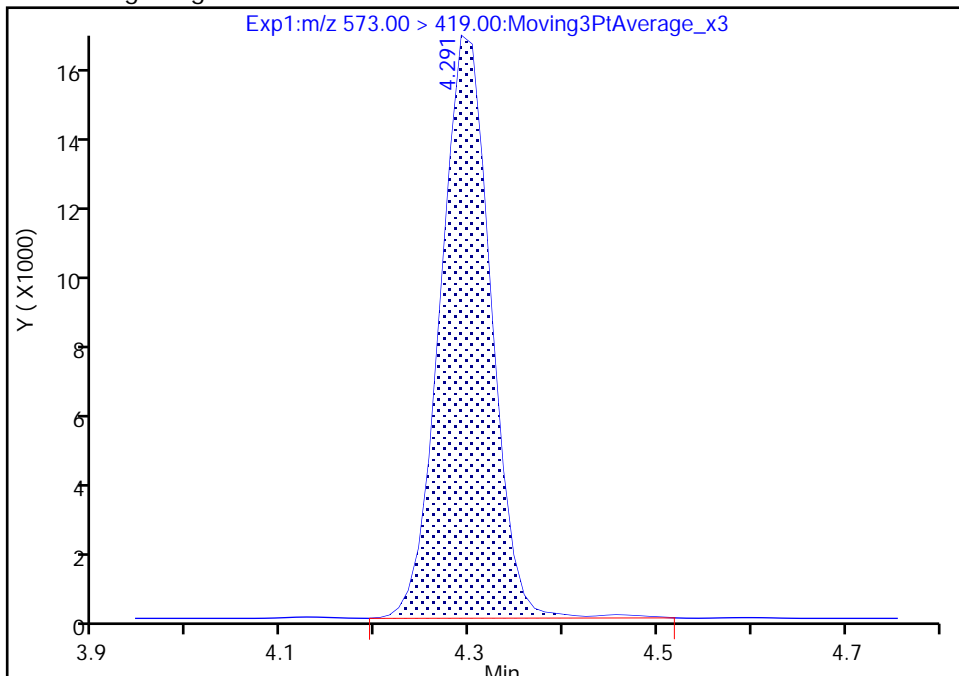
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

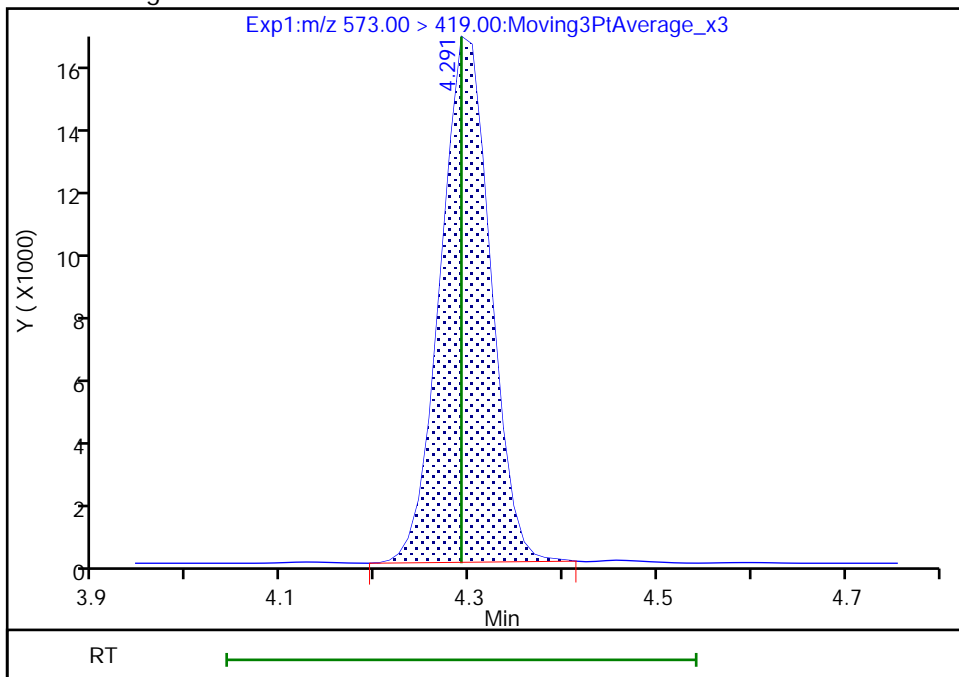
RT: 4.29
Area: 60823
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 60151
Amount: 1.204830
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:14:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

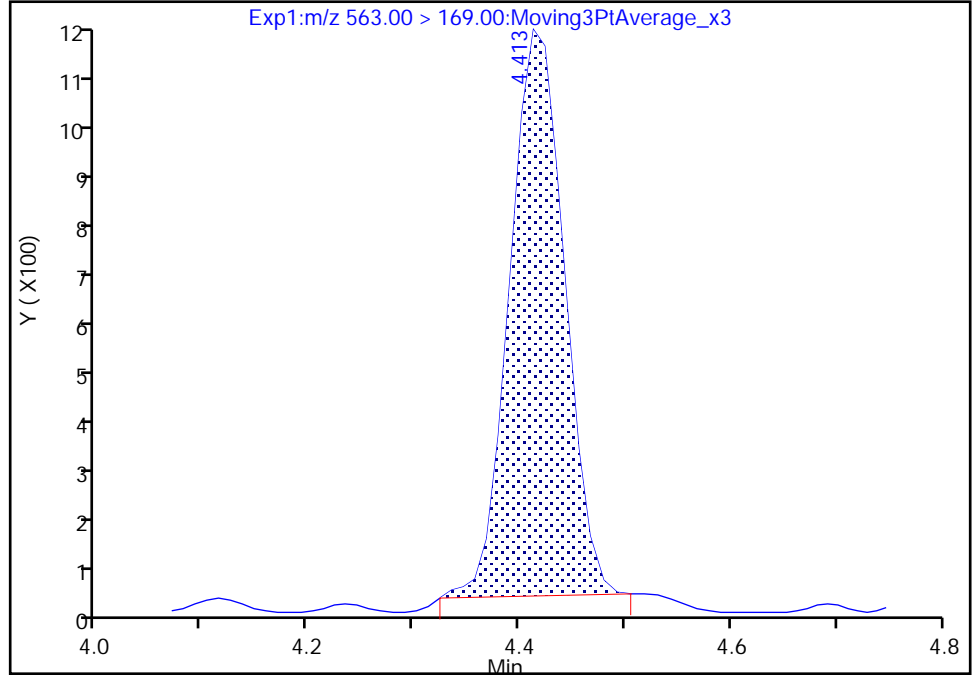
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

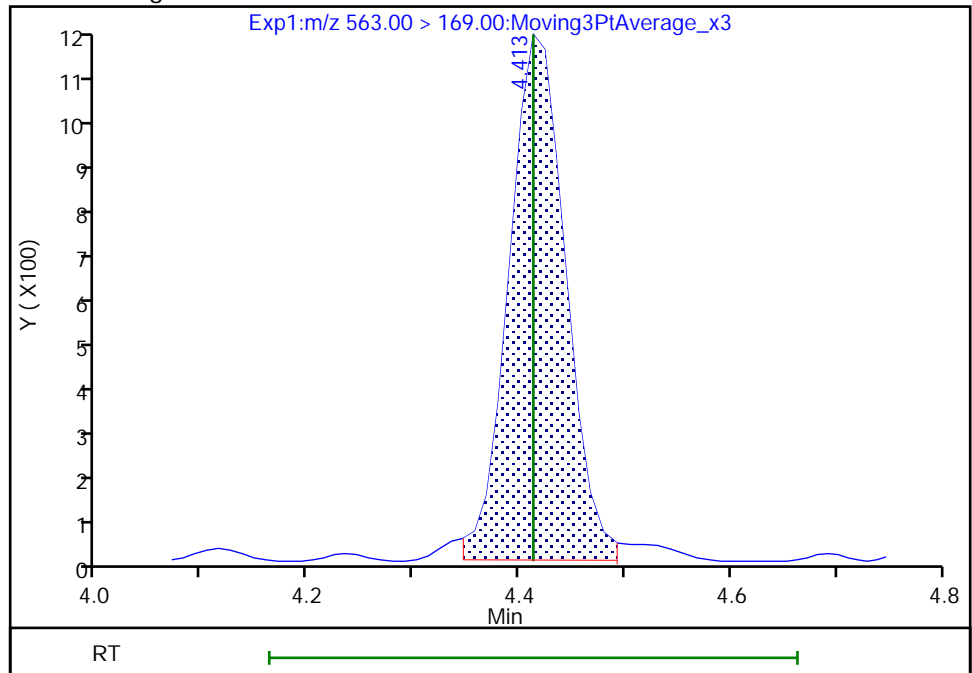
RT: 4.41
Area: 3846
Amount: 0.050000
Amount Units: ng/ml

Processing Integration Results



RT: 4.41
Area: 4079
Amount: 0.049576
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:14:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

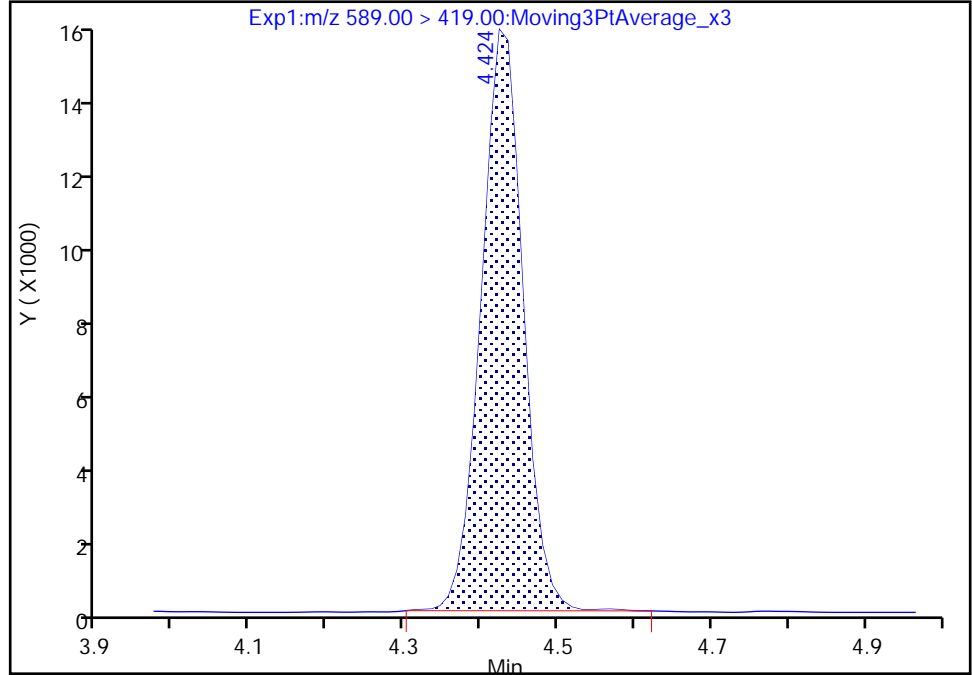
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 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

D 32 d5-NEtFOSAA, CAS: STL02117
Signal: 1

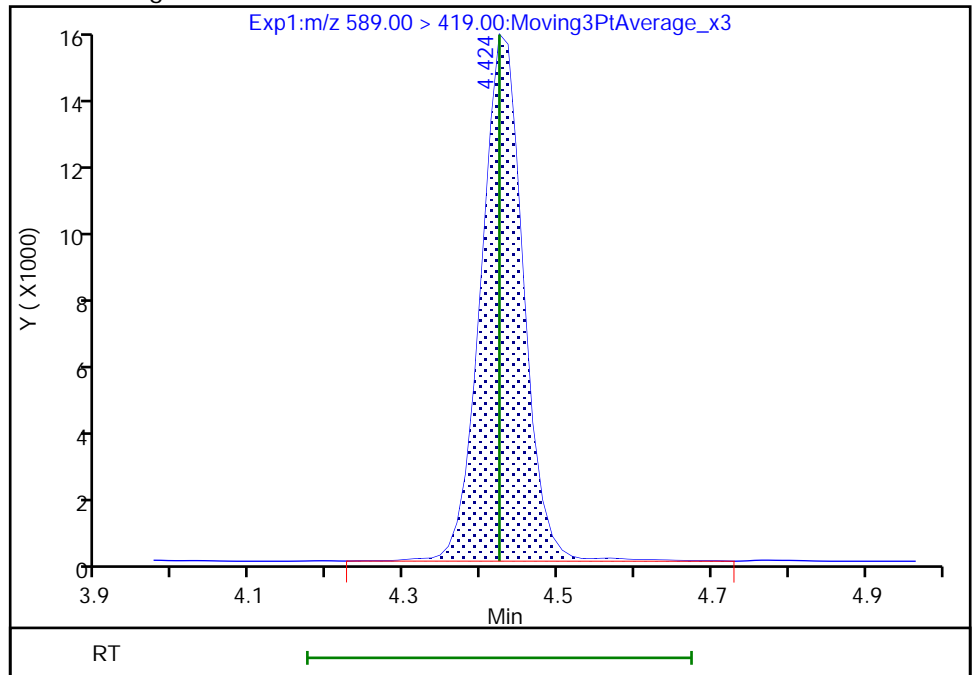
RT: 4.42
Area: 59683
Amount: 1.194949
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 60638
Amount: 1.210417
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:54:26
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

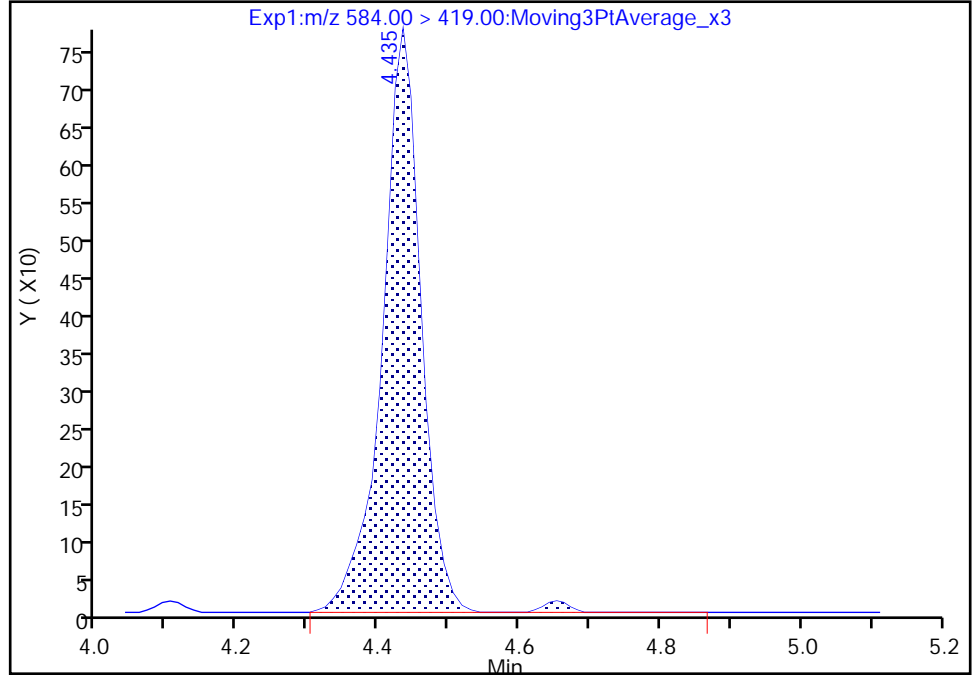
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

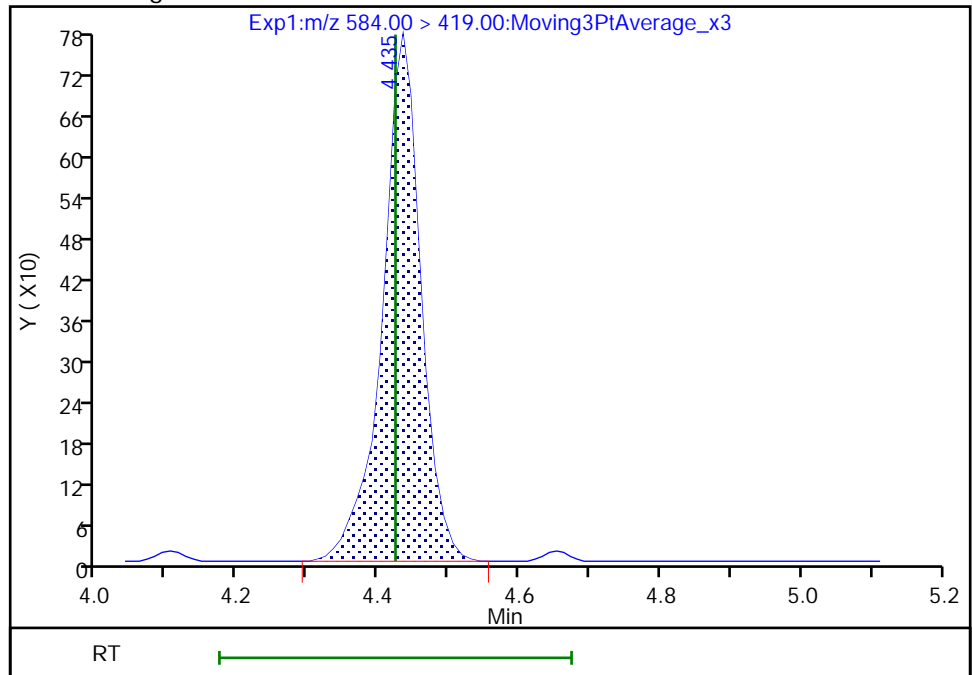
RT: 4.43
Area: 2959
Amount: 0.050712
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 2922
Amount: 0.058321
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

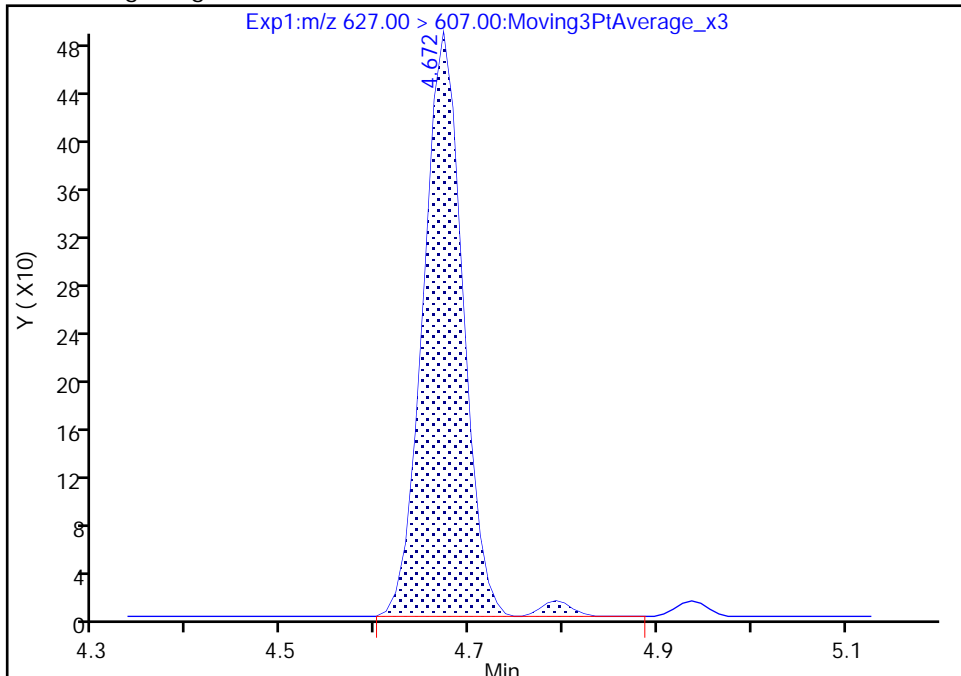
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL02.d
Injection Date: 20-May-2021 16:55:39 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

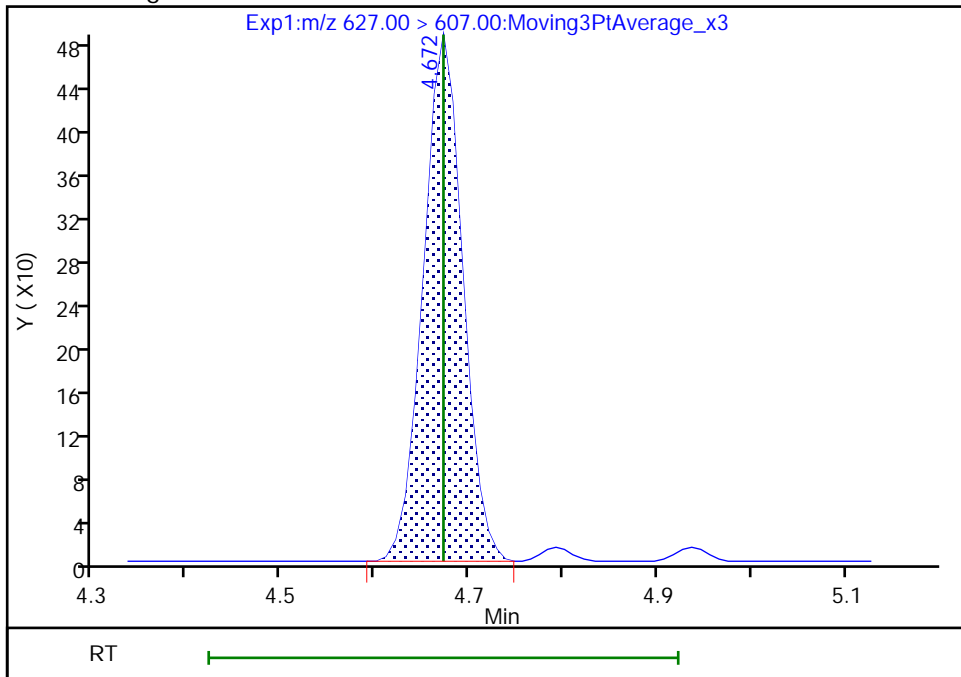
RT: 4.67
Area: 1451
Amount: 0.016599
Amount Units: ng/ml

Processing Integration Results



RT: 4.67
Area: 1423
Amount: 0.050091
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:14:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 20-May-2021 17:03:56 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0046072-003 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-May-2021 18:23:31 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1654

First Level Reviewer: chirgwinb Date: 20-May-2021 17:15:35

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	2.107	2.100	0.007	0.599	1623523	1.28	102	11848	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.107	2.100	0.007	1.000	125446	0.1033		103	28.3	M
D 3 13C5 PFPeA	267.90 > 223.00	2.424	2.426	-0.002	0.689	1170979	1.27	102	3764	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.437	2.426	0.011	1.005	96347	0.1017		102	10.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.450	2.452	-0.002	0.696	1312530	1.14	97.9	259487	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.450	2.452	-0.002	1.000	106663	0.0917	Target=2.17	104	310	
298.90 > 99.00	2.450	2.452	-0.002	1.000	46587		2.29(1.08-3.25)	104	40.9	
D 60 M2-4:2 FTS	329.00 > 81.00	2.756	2.758	-0.002	0.783	103786	1.16	99.3	160	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.756	2.758	-0.002	1.000	13947	0.0900		96.4	365	
D 7 13C2 PFHxA	315.00 > 270.00	2.792	2.794	-0.002	0.794	1279751	1.28	102	3629	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.792	2.794	-0.002	1.000	104942	0.1013	Target=12.10	101	36.6	
313.00 > 119.00	2.792	2.794	-0.002	1.000	9052		11.59(6.05-18.15)	101	20.3	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.792	2.794	-0.002	0.885	101017	0.0899	Target=3.51	95.8	420	
349.00 > 99.00	2.792	2.794	-0.002	0.885	31420		3.22(1.75-5.26)	95.8	62.5	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.902	2.902	0.0	1.000	18708	0.1045		105	9.4	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	0.825	135232	1.22		97.6	1282	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.153	0.001	1.000	92199	0.0901	Target=4.34	99.0	397	M
399.00 > 99.00	3.154	3.153	0.001	1.000	21969		4.20(2.17-6.50)	99.0	36.9	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.153	0.001	0.896	1091572	1.22		103	1731	
D 9 13C4 PFHpA										
367.00 > 322.00	3.165	3.164	0.001	0.899	1321896	1.32		106	4835	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.165	3.164	0.001	1.000	105824	0.0992	Target=3.57	99.2	68.2	
363.00 > 169.00	3.165	3.164	0.001	1.000	28371		3.73(1.78-5.35)	99.2	83.3	
77 DONA										
377.00 > 251.00	3.197	3.196	0.001	0.833	201934	0.0991	Target=2.42	105	610	
377.00 > 85.00	3.197	3.196	0.001	0.833	84650		2.39(1.21-3.62)	105	191	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.510	3.510	0.0	0.915	83312	0.1034	Target=6.39	109	1059	M
449.00 > 99.00	3.510	3.510	0.0	0.915	11576		7.20(3.19-9.58)	109	47.5	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	149981	1.26		107	653	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	10373	0.0916		96.6	117	
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1289990	1.27		102	2754	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1266238	1.25			2587	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	108896	0.1027	Target=2.42	103	53.2	M
413.00 > 169.00	3.519	3.519	0.0	1.000	45531		2.39(1.21-3.63)	103	147	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	775404	1.20		100	3054	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	68482	0.0980	Target=5.78	106	133	M
499.00 > 99.00	3.836	3.836	0.0	1.000	11586		5.91(2.89-8.66)	106	38.5	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	91002	0.0978	Target=6.76	97.8	38.3	
463.00 > 169.00	3.859	3.858	0.001	1.000	13974		6.51(3.38-10.14)	97.8	166	
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.096	1207102	1.29		103	3838	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	4.002	3.992	0.010	1.043	64254	0.0956		103	942	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	53681	0.1032	Target=2.92	107	472	
549.00 > 99.00	4.126	4.126	0.0	1.076	19443		2.76(1.46-4.38)	107	68.4	
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.148	0.012	1.182	1042841	1.27		102	5761	

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	88539	0.1014	Target=8.21	101	109	
513.00 > 169.00	4.160	4.148	0.012	1.000	11737		7.54(4.11-12.32)	101	94.7	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.171	4.160	0.011	1.185	146209	1.20		100	738	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.171	4.160	0.011	1.000	5882	0.0960		100	111	M
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.214	0.011	1.200	1431417	1.24		99.1	2799	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.214	0.011	1.000	122056	0.1090		109	539	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.302	4.291	0.011	1.223	66849	1.21		96.5	852	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.000	5204	0.1107		111	34.5	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.380	0.011	1.145	39403	0.0962	Target=2.74	99.8	547	
599.00 > 99.00	4.391	4.380	0.011	1.145	15121		2.61(1.37-4.11)	99.8	139	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.413	0.011	1.000	66985	0.1016	Target=7.58	102	112	
563.00 > 169.00	4.424	4.413	0.011	1.000	8001		8.37(3.79-11.36)	102	120	
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.413	0.011	1.257	833367	1.27		101	3025	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.434	4.424	0.010	1.260	71468	1.29		103	844	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.434	4.424	0.010	1.000	5392	0.0975		97.5	86.8	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.518	4.505	0.013	1.178	55743	0.0932		98.9	581	
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.642	0.011	1.322	860951	1.25		100	2990	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.000	78287	0.1134	Target=5.88	113	38.3	
613.00 > 169.00	4.653	4.653	0.0	1.000	12737		6.15(2.94-8.82)	113	238	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.682	4.672	0.010	1.122	3095	0.0985		102	120	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.834	4.822	0.012	1.260	14050	0.1006	Target=0.46	104	393	
699.00 > 99.00	4.834	4.822	0.012	1.260	29845		0.47(0.23-0.69)	104	293	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.866	4.866	0.0	1.046	58829	0.1056	Target=3.79	106	39.2	
663.00 > 169.00	4.866	4.866	0.0	1.046	15323		3.84(1.89-5.68)	106	269	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.062	5.053	0.009	1.438	643650	1.28		102	5066	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.062	5.053	0.009	1.000	10781	0.1024	Target=1.07	102	234	
713.00 > 219.00	5.053	5.053	0.0	0.998	9807		1.10(0.53-1.60)	102	420	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.417	5.406	0.011	1.002	54718	0.1013	Target=3.53	101	49.2	
813.00 > 169.00	5.406	5.406	0.0	1.000	15994		3.42(1.77-5.30)	101	346	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.406	5.406	0.0	1.536	636351	1.29		103	2526	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.738	5.747	-0.009	1.062	44233	0.1017	Target=3.39	102	62.1	
913.00 > 169.00	5.738	5.747	-0.009	1.062	13361		3.31(1.69-5.08)	102	385	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC2_00008

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d

Injection Date: 20-May-2021 17:03:56

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

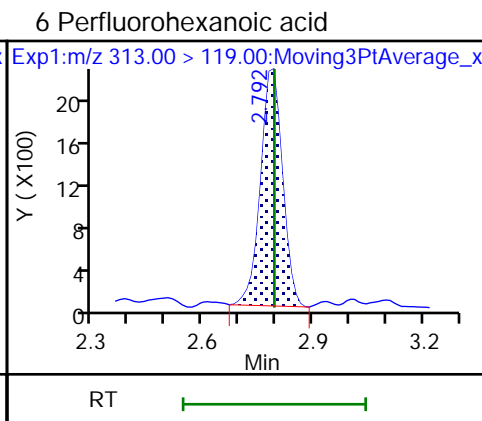
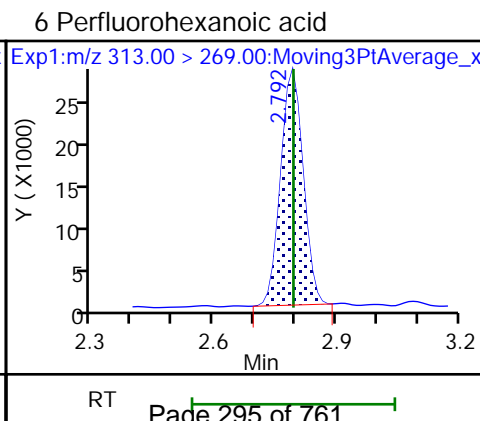
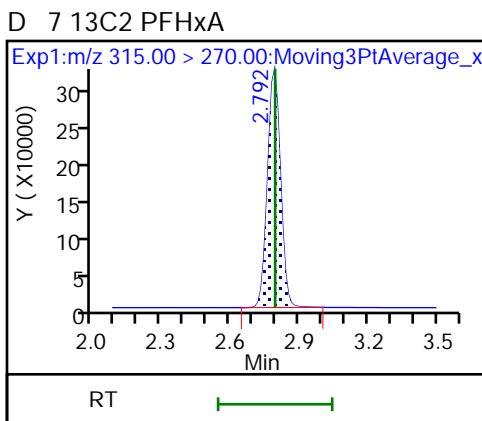
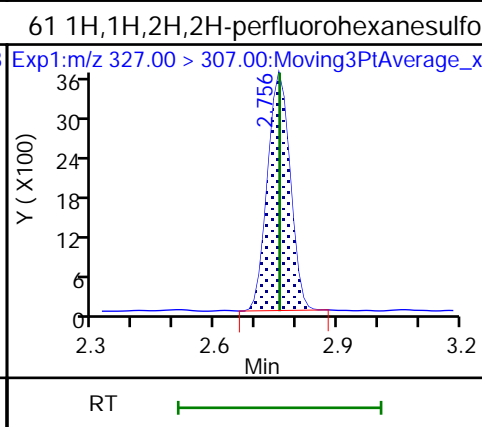
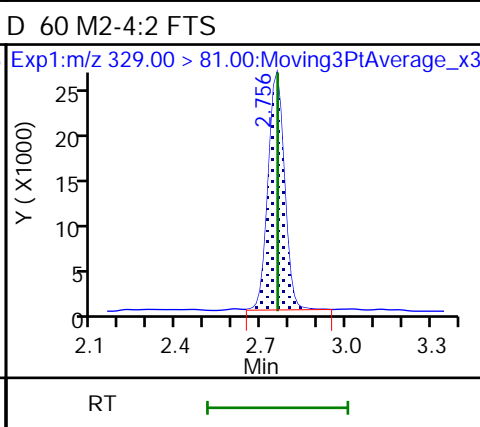
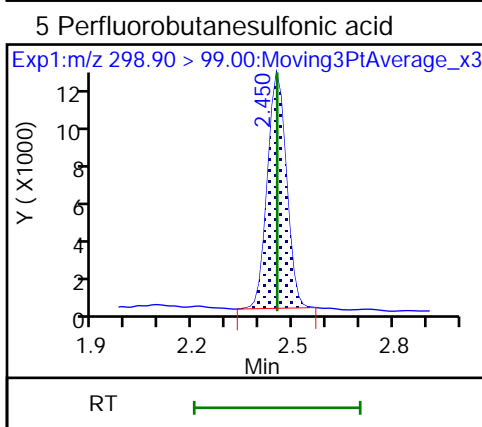
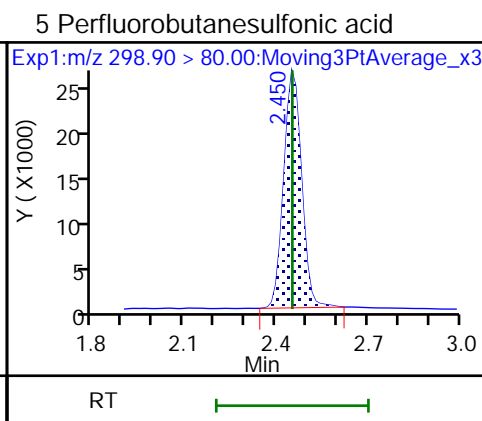
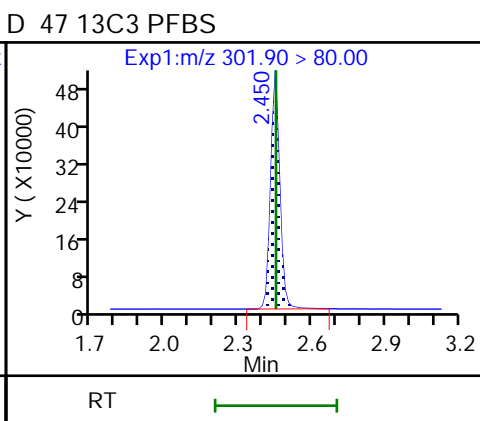
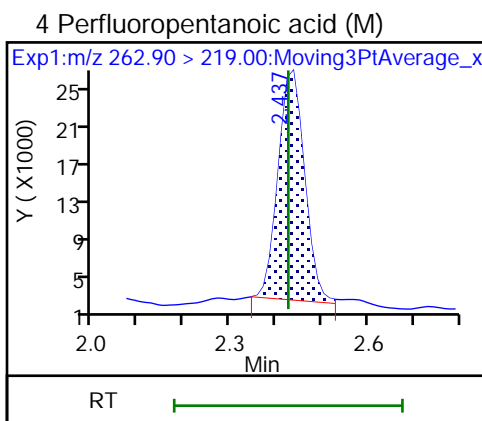
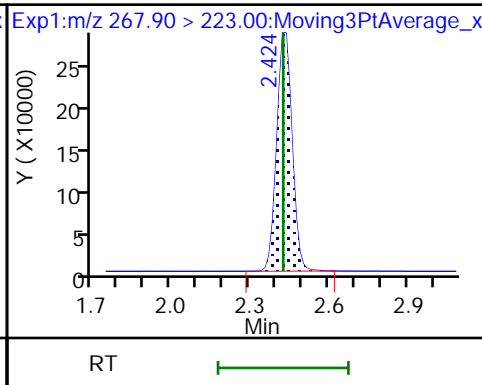
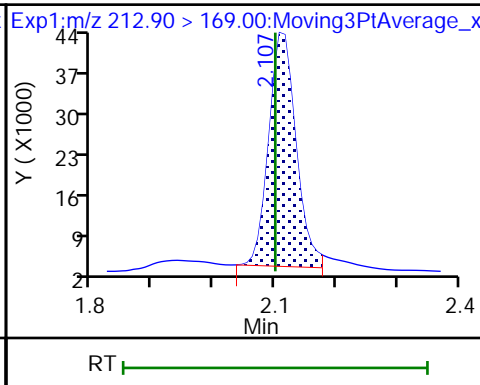
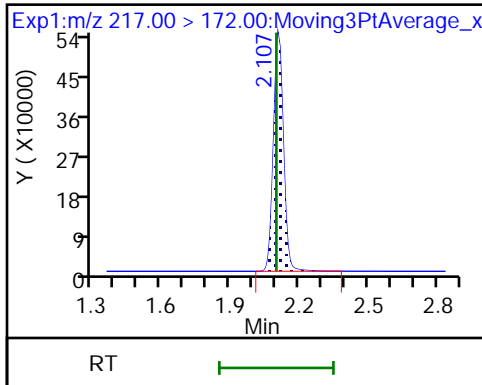
Method: PFC_LC812

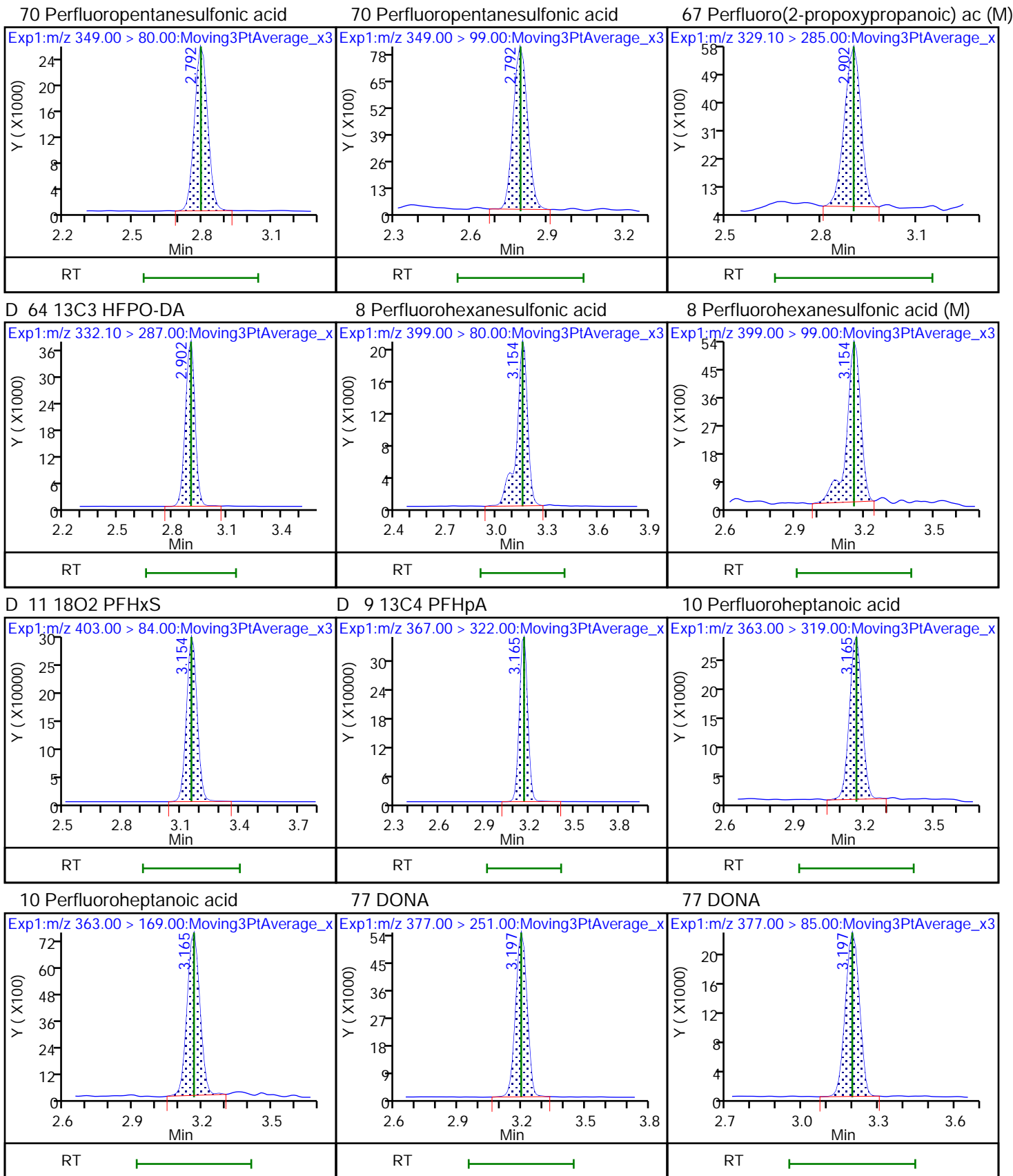
Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

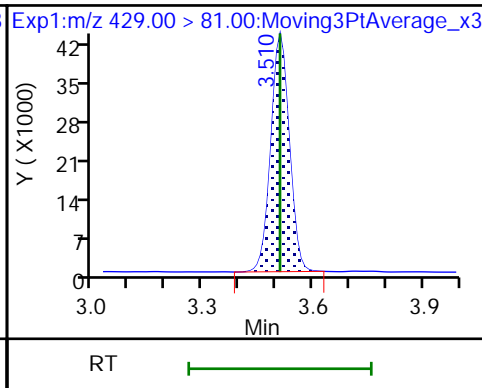
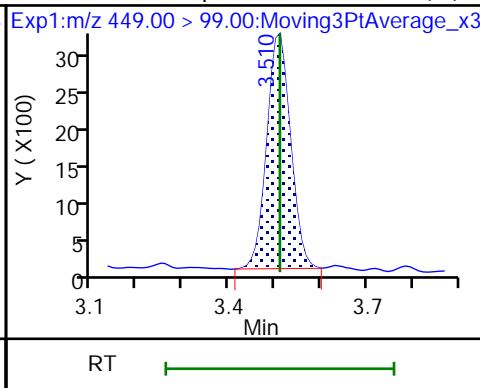
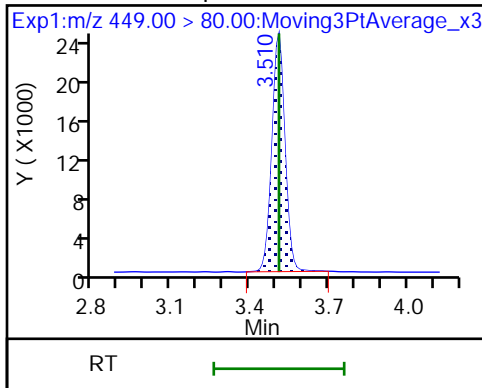




16 Perfluoroheptanesulfonic acid

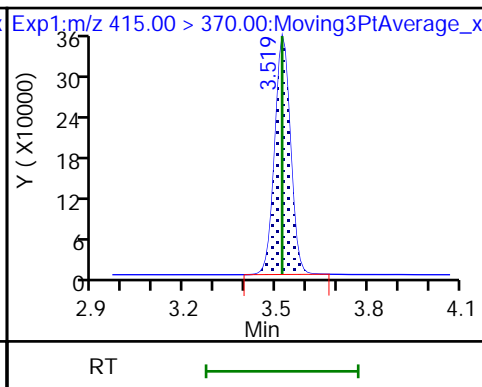
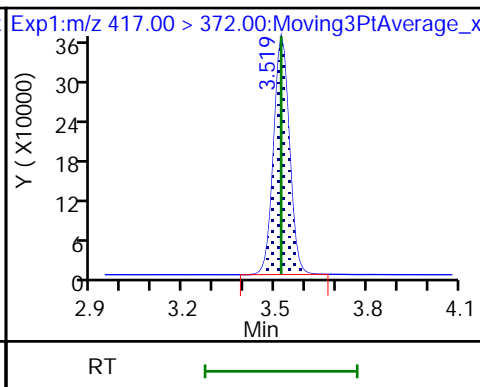
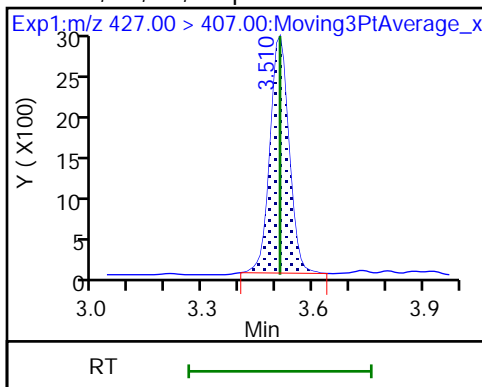
16 Perfluoroheptanesulfonic acid (M)

D 12 M2-6:2 FTS



13 1H,1H,2H,2H-perfluorooctanesulfo D 14 13C4 PFOA

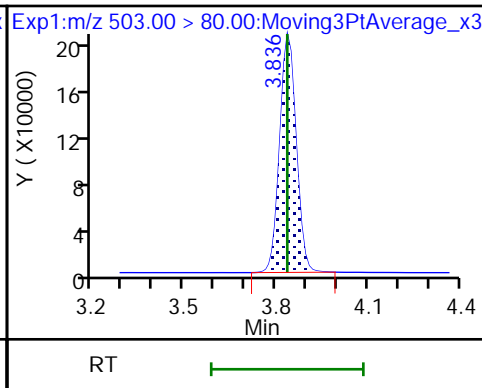
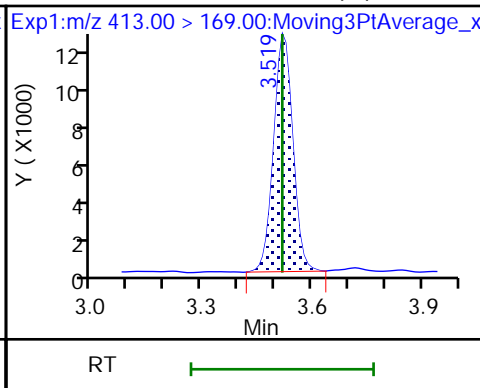
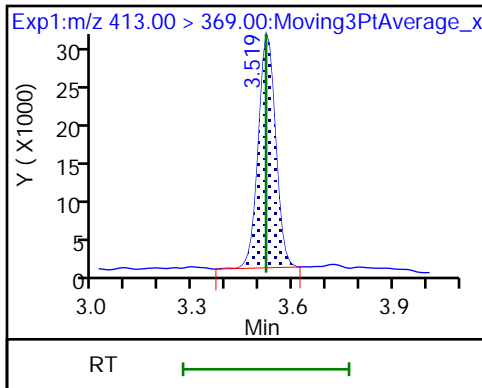
* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

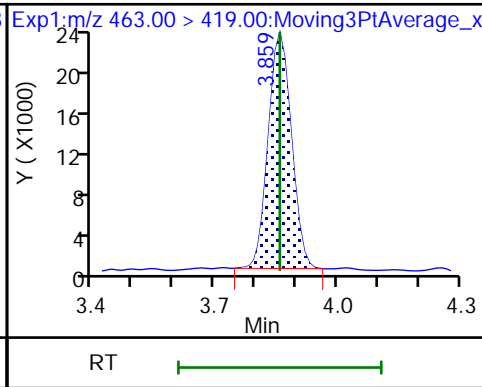
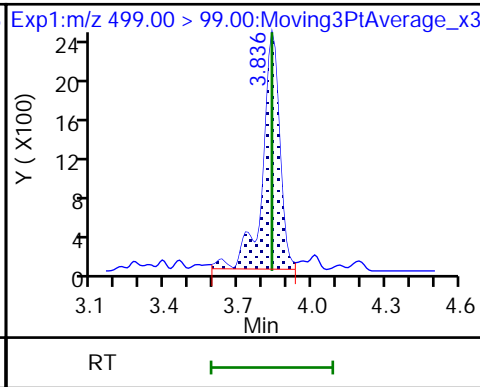
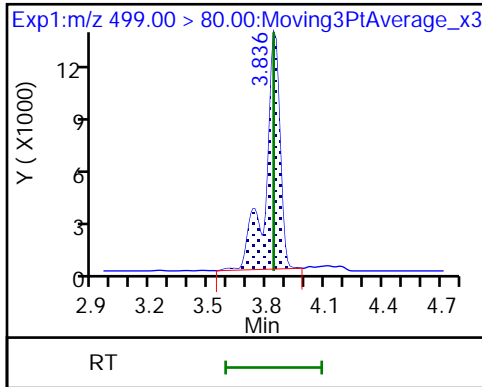
D 18 13C4 PFOS

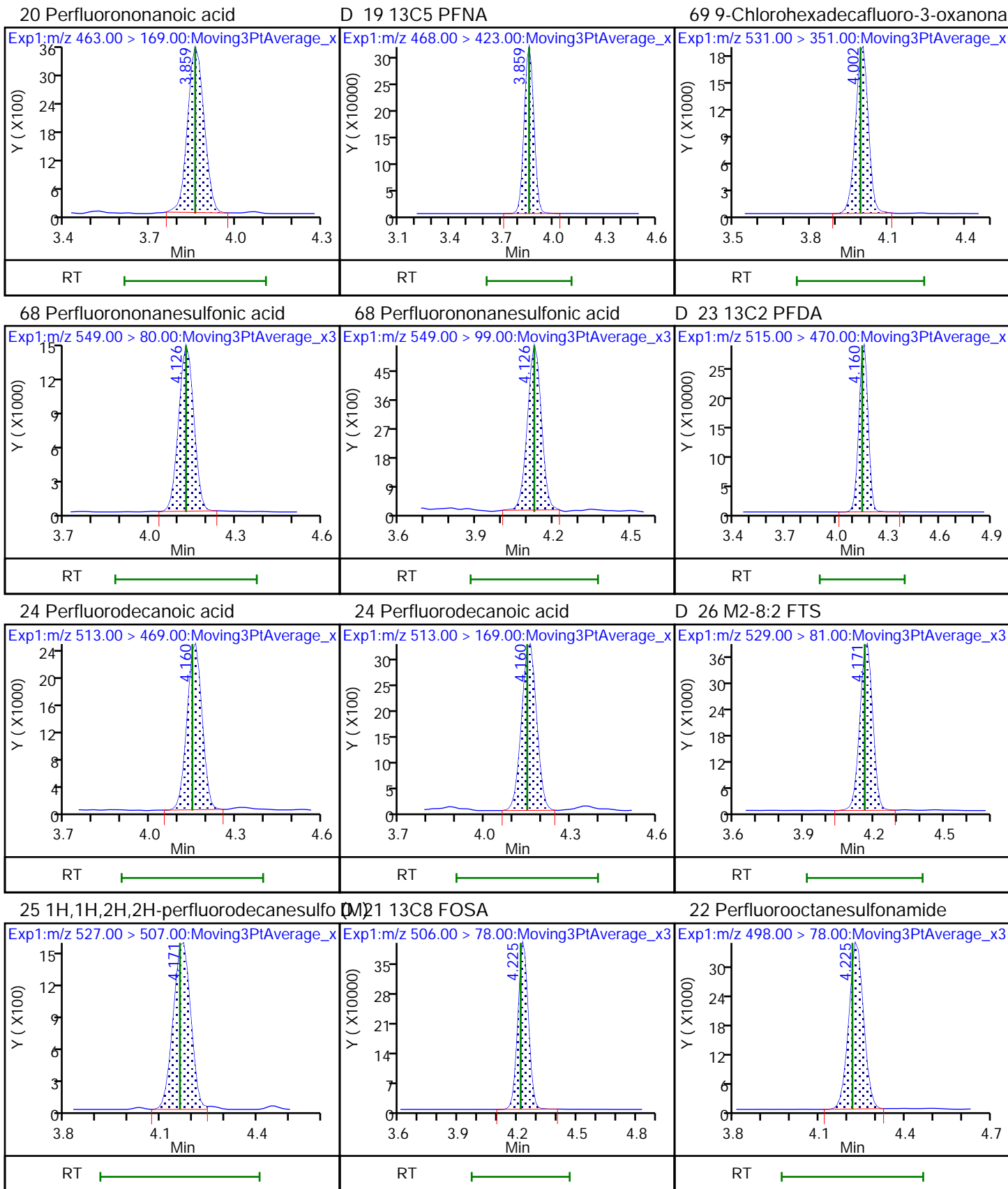


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

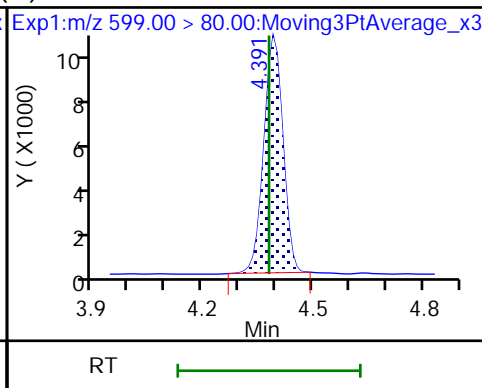
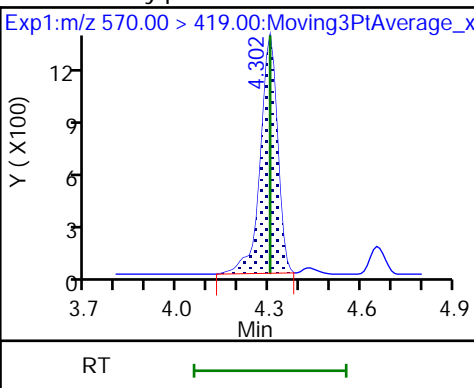
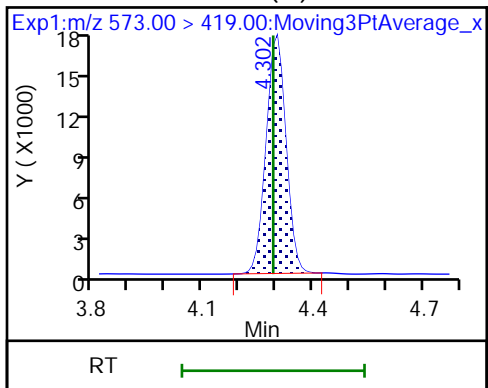




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

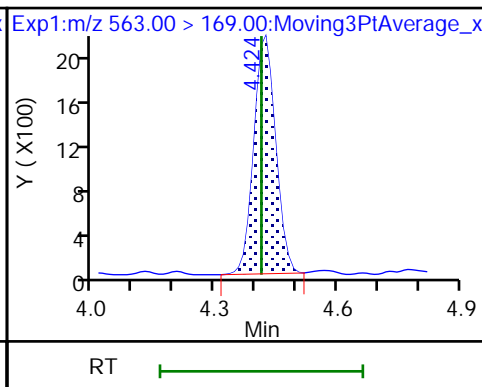
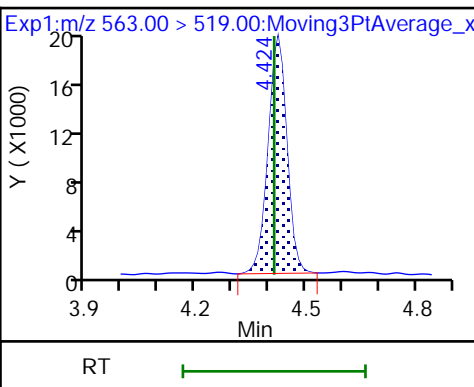
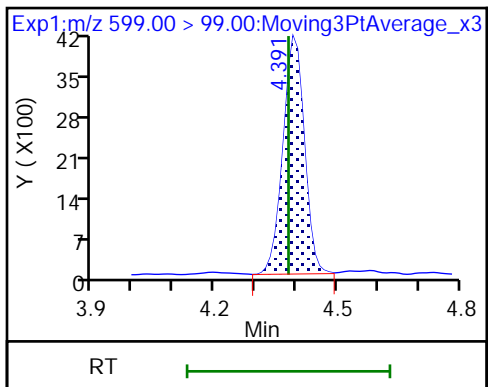
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

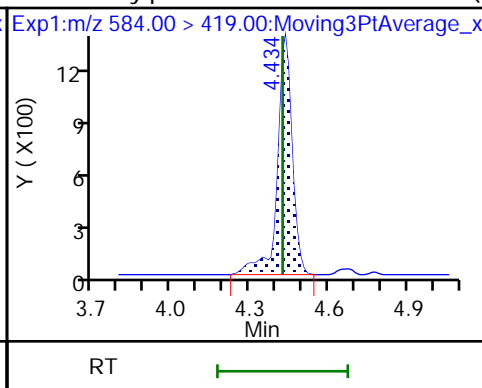
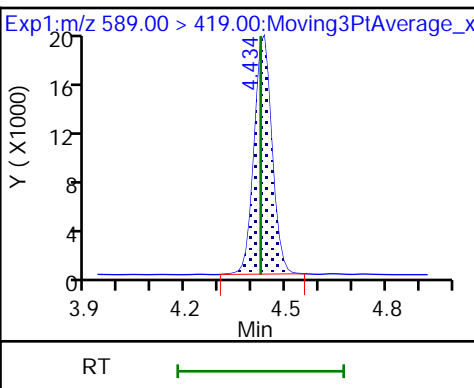
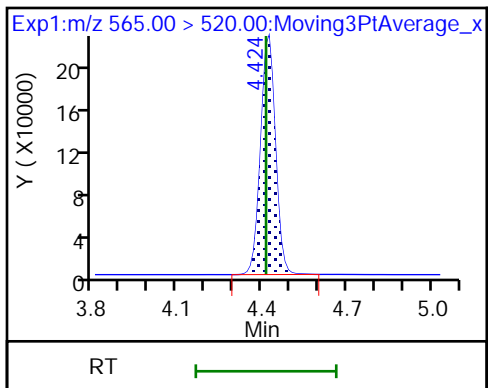
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

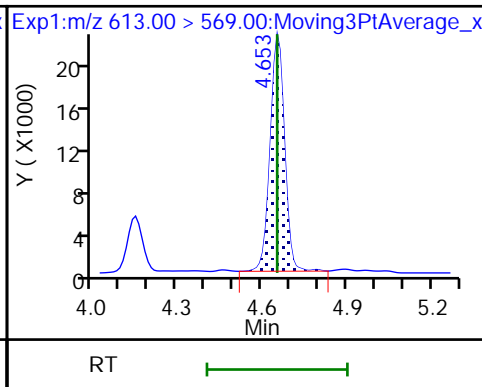
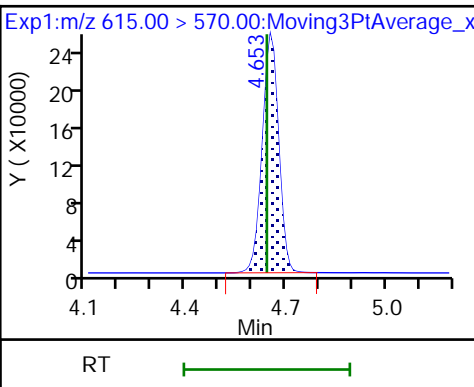
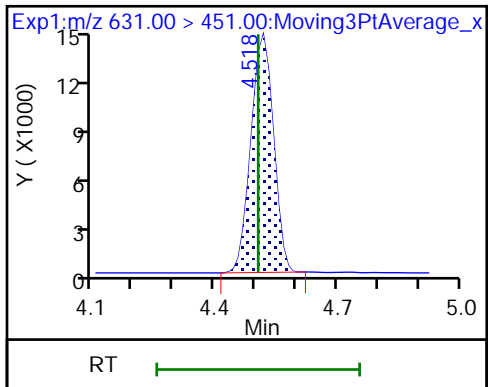
33 N-ethylperfluorooctanesulfonamid (M)

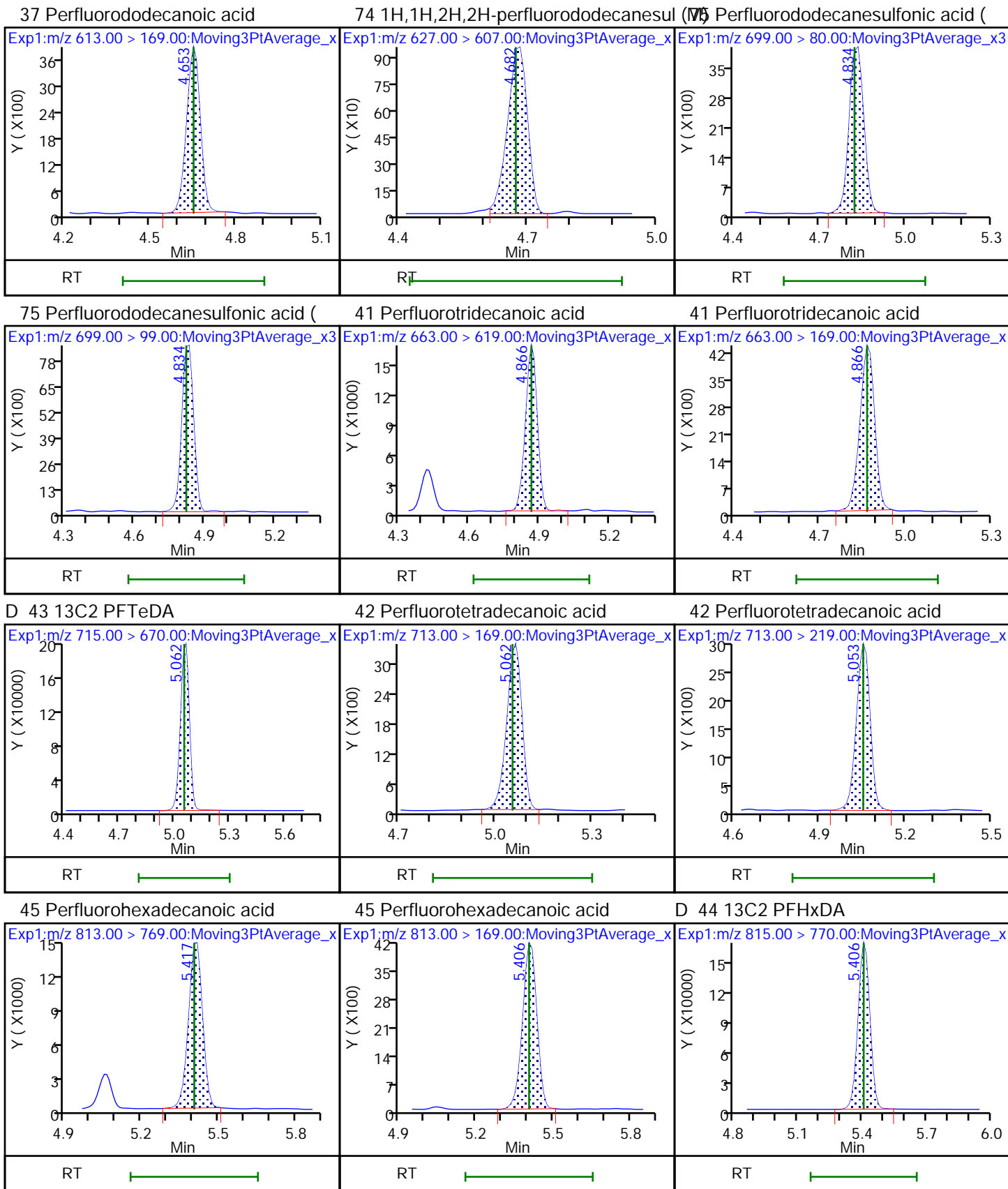


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDaA

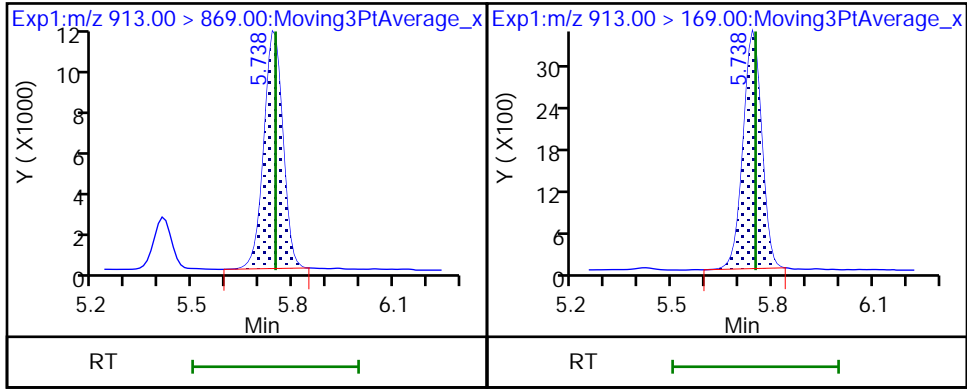
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Euofins TestAmerica, Burlington

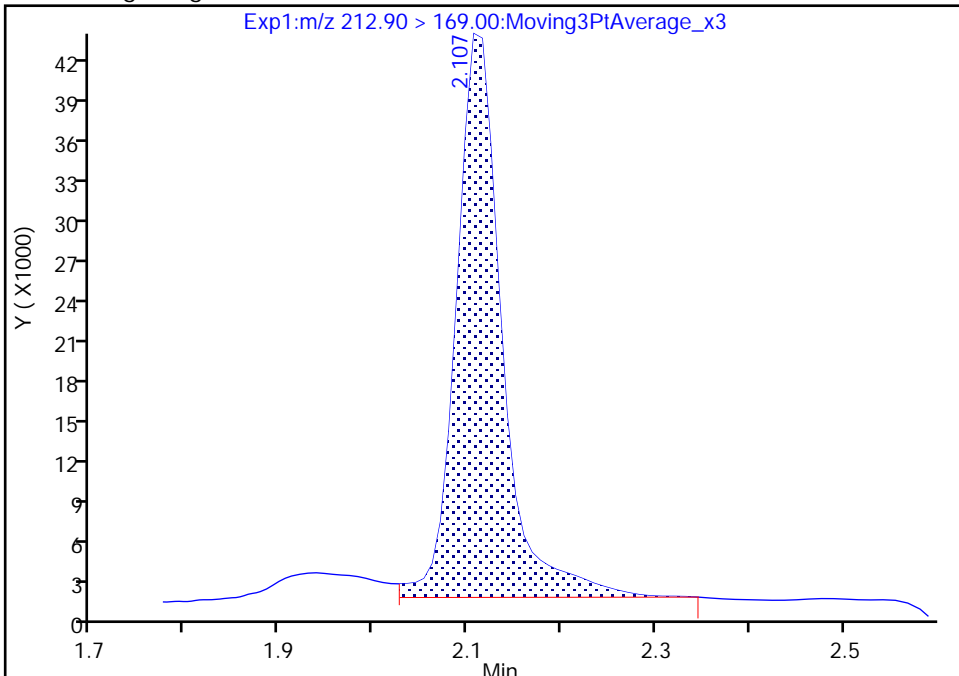
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Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

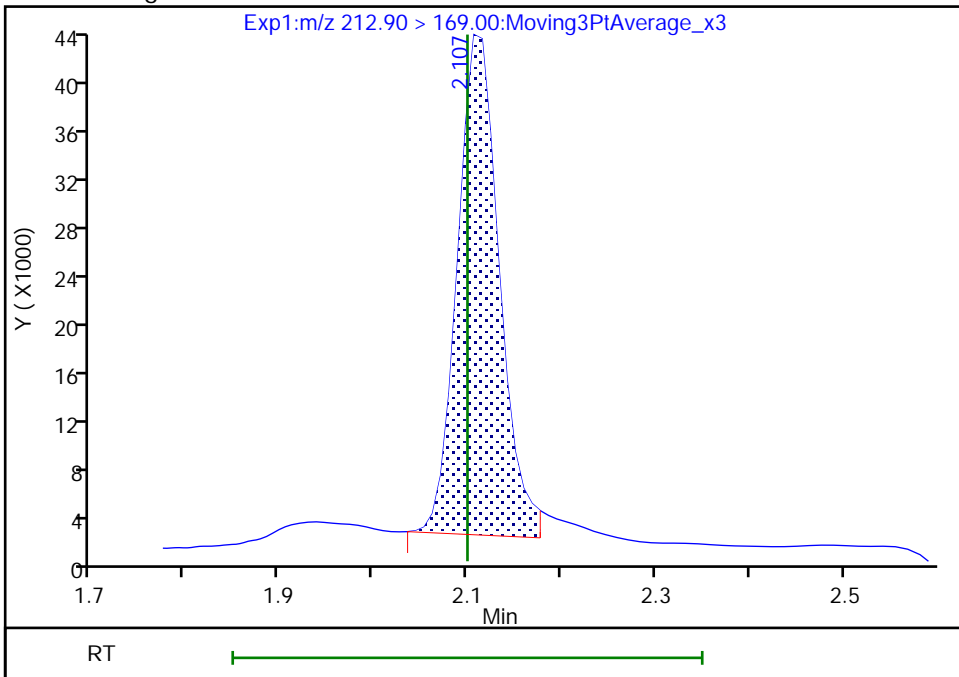
RT: 2.11
Area: 140472
Amount: 0.103358
Amount Units: ng/ml

Processing Integration Results



RT: 2.11
Area: 125446
Amount: 0.103310
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

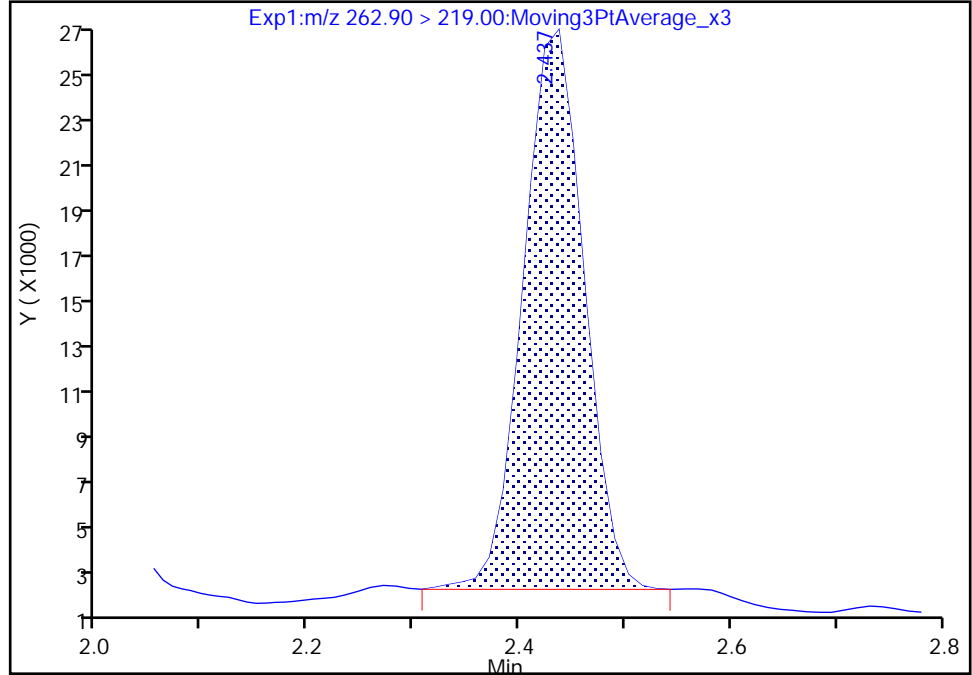
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Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

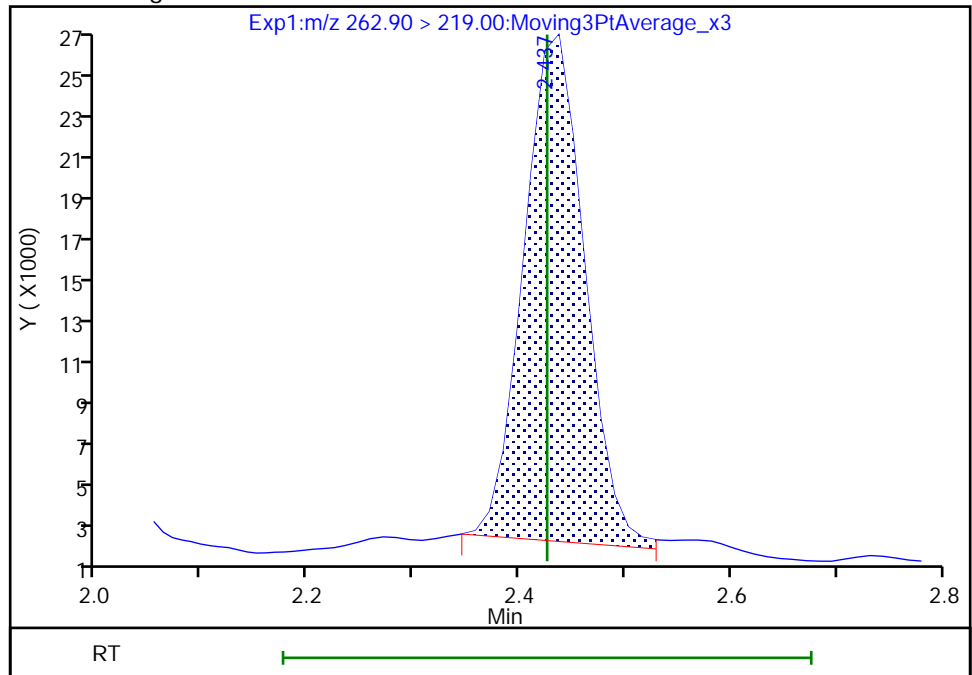
RT: 2.44
Area: 96138
Amount: 0.097686
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 96347
Amount: 0.101736
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:16:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

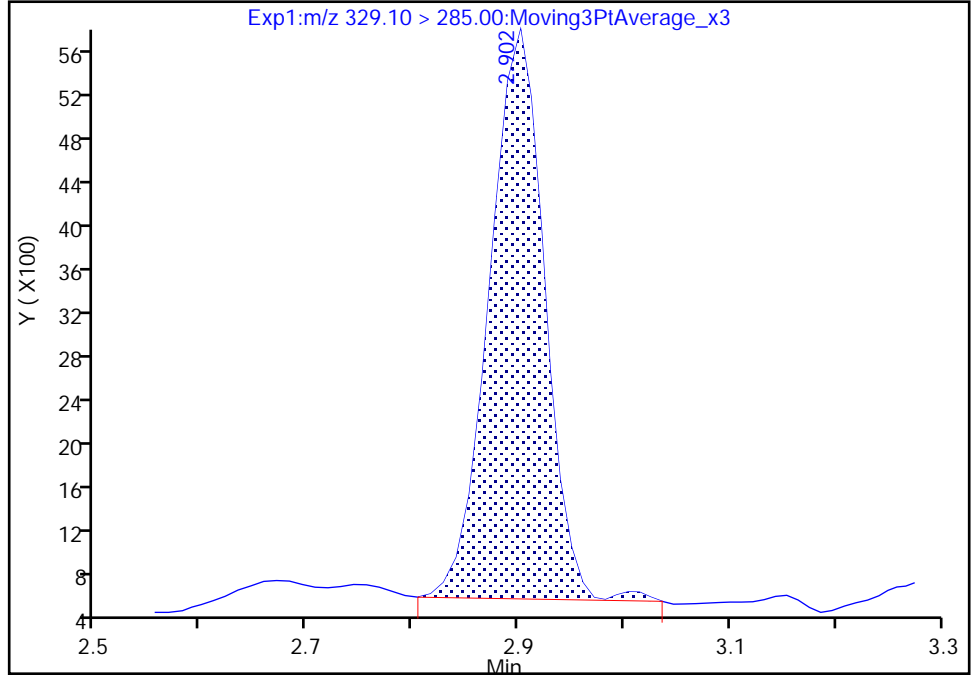
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Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

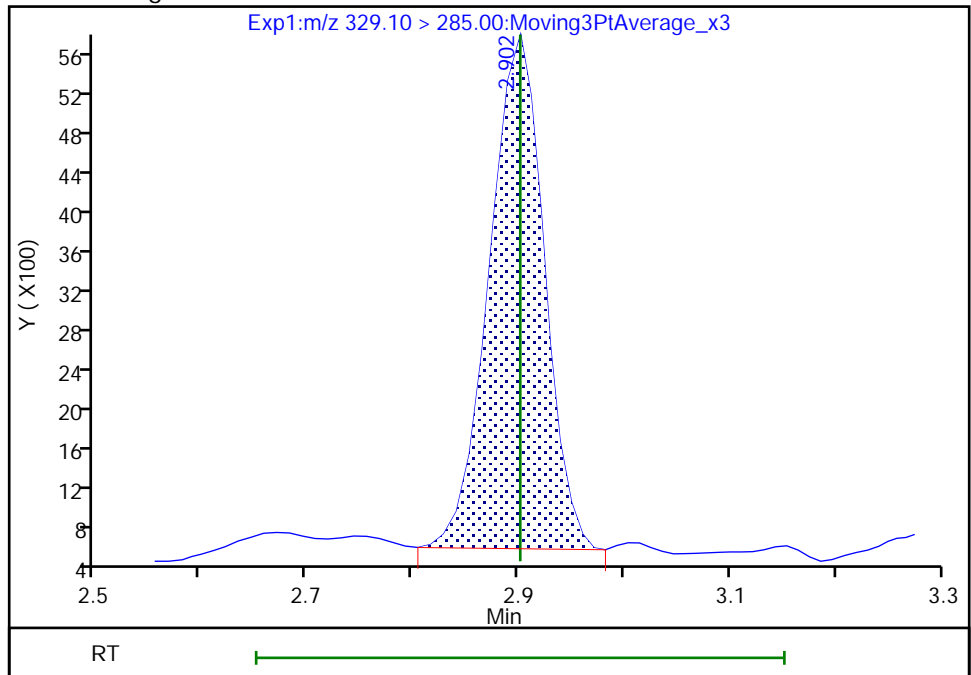
RT: 2.90
Area: 18903
Amount: 0.100000
Amount Units: ng/ml

Processing Integration Results



RT: 2.90
Area: 18708
Amount: 0.104509
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:16:37
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

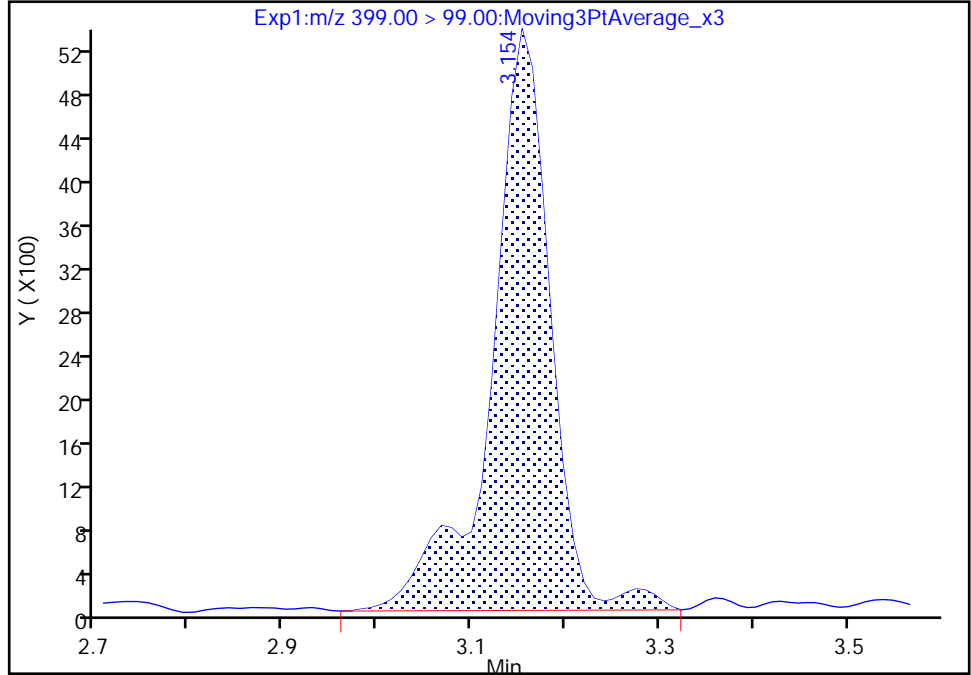
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Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

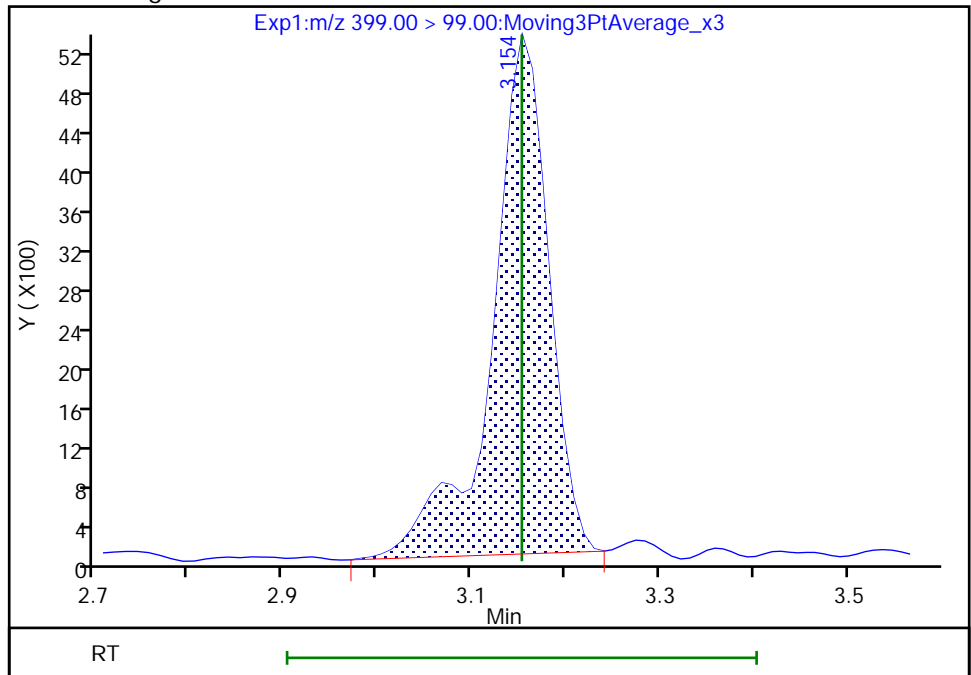
RT: 3.15
Area: 23214
Amount: 0.087343
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 21969
Amount: 0.090097
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:16:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 305 of 761

Eurofins TestAmerica, Burlington

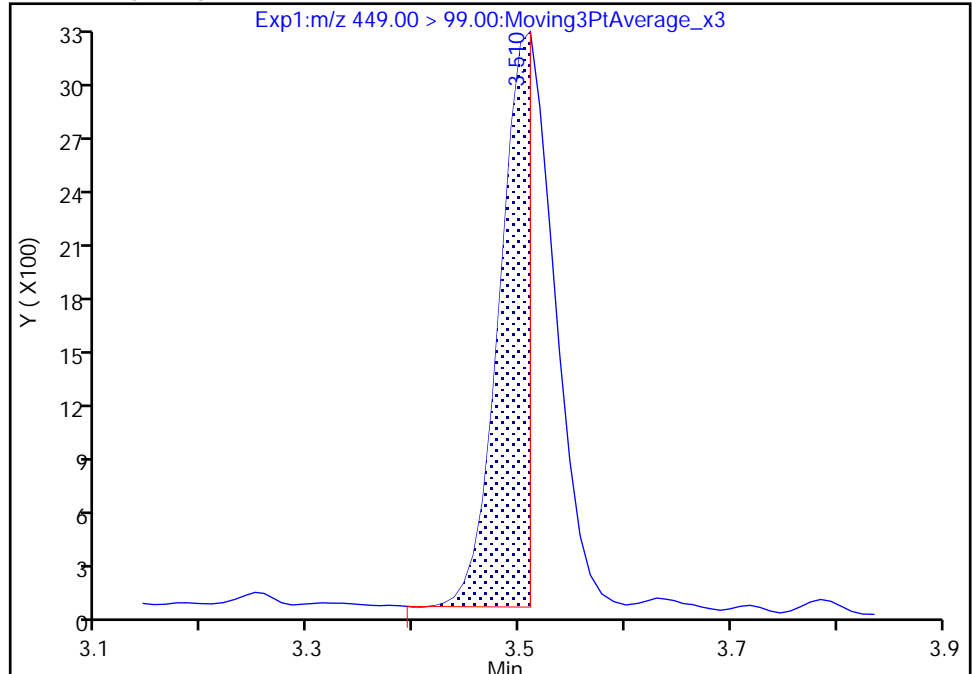
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Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

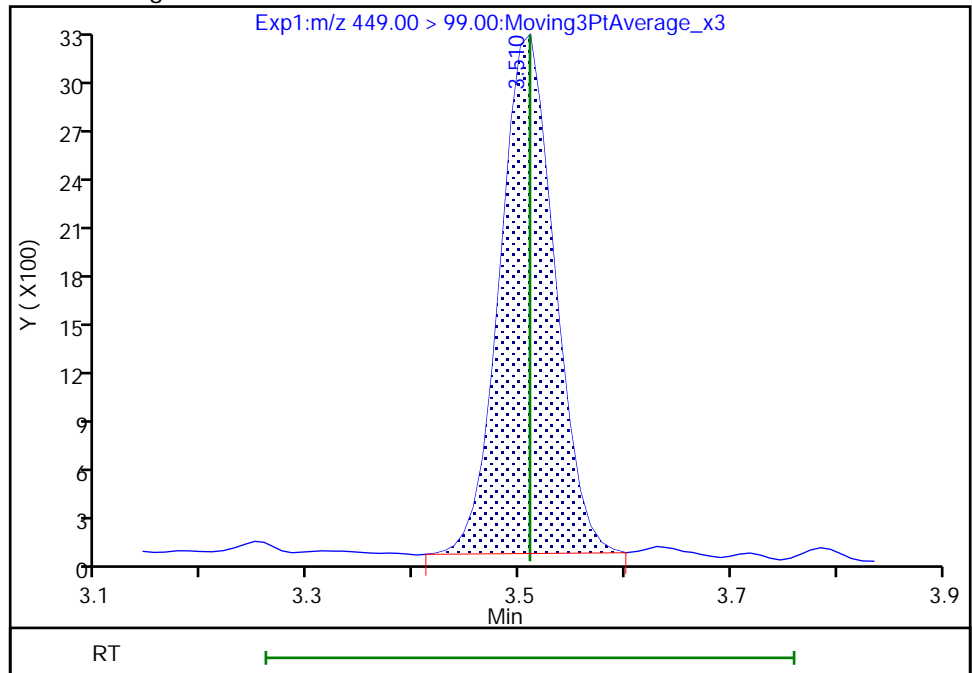
RT: 3.51
Area: 6300
Amount: 0.100891
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 11576
Amount: 0.103358
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:16:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

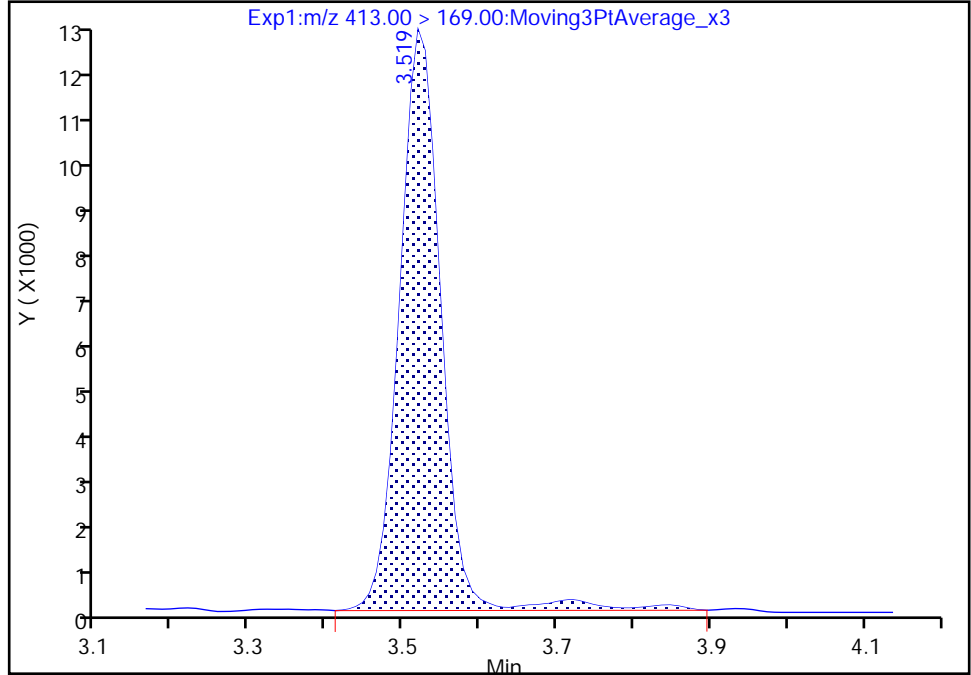
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

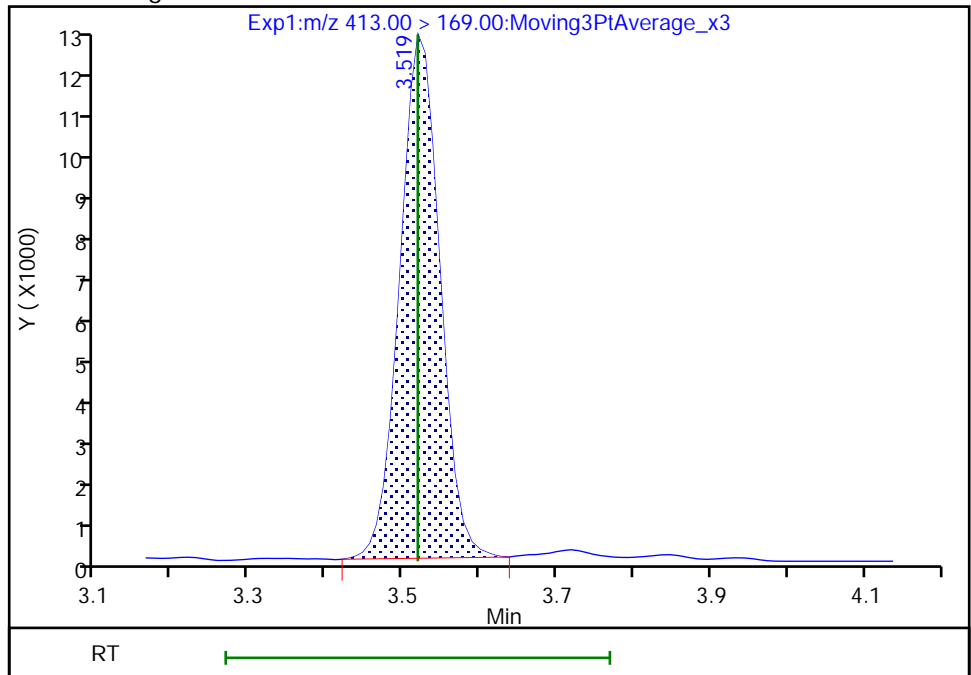
RT: 3.52
Area: 47592
Amount: 0.099654
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 45531
Amount: 0.102725
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

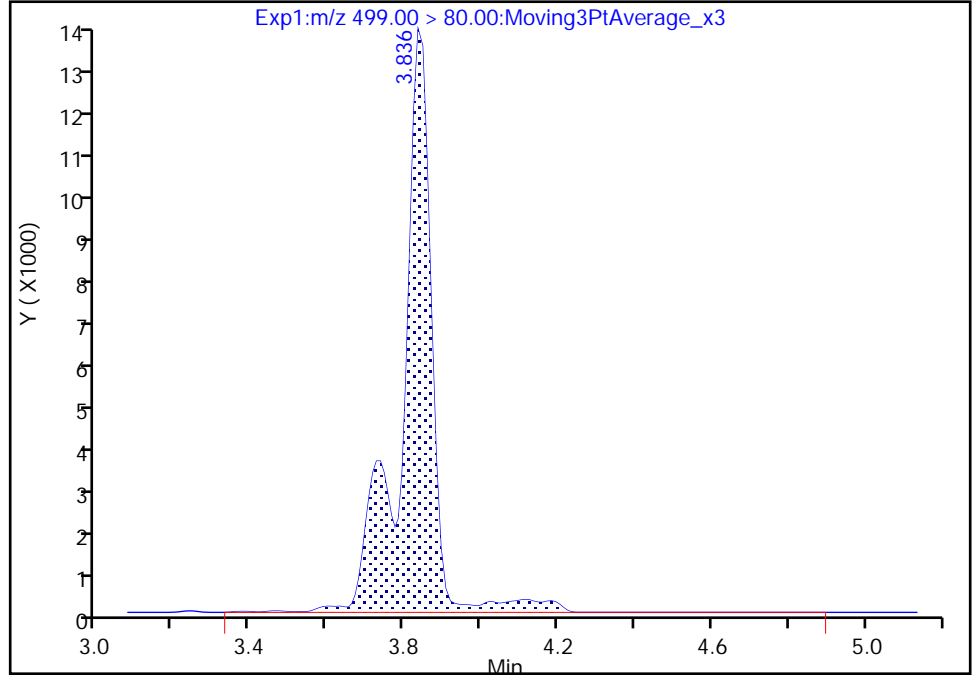
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

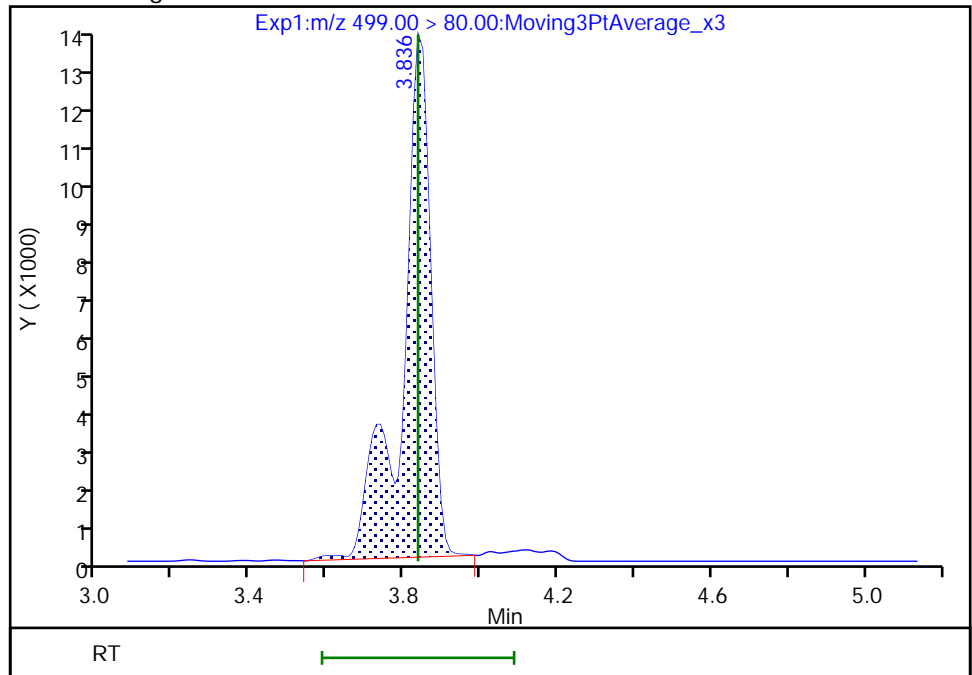
RT: 3.84
Area: 74098
Amount: 0.098522
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 68482
Amount: 0.098028
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

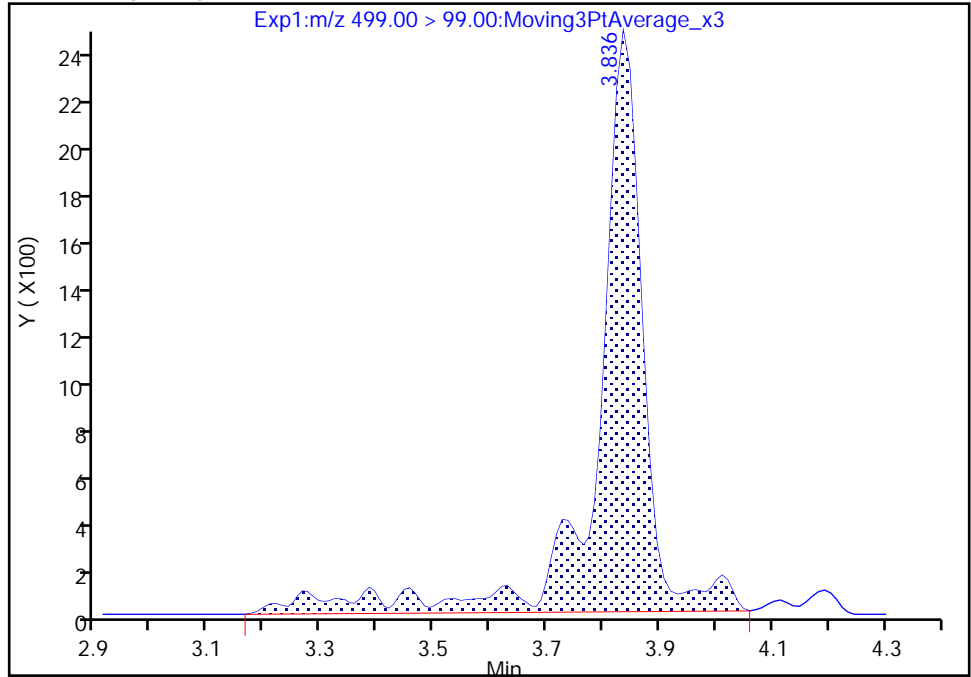
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

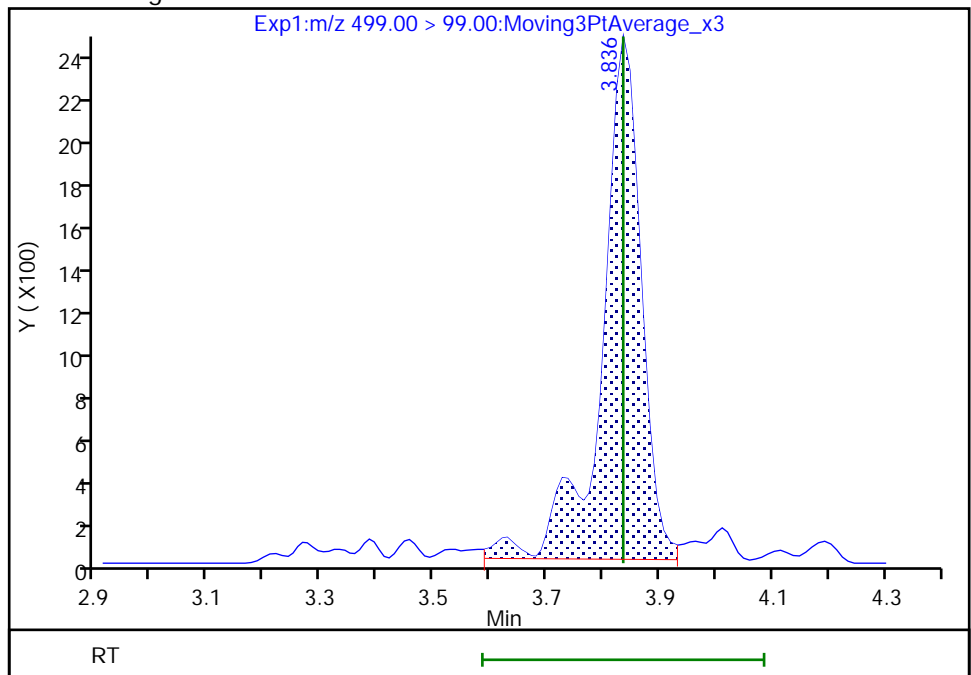
RT: 3.84
Area: 13754
Amount: 0.098522
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 11586
Amount: 0.098028
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

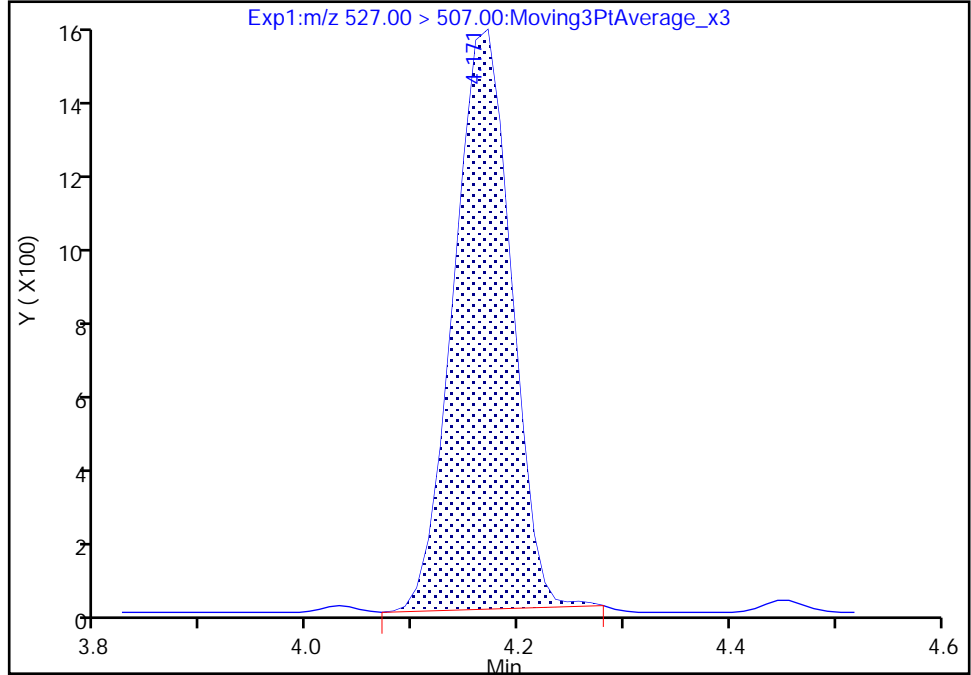
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

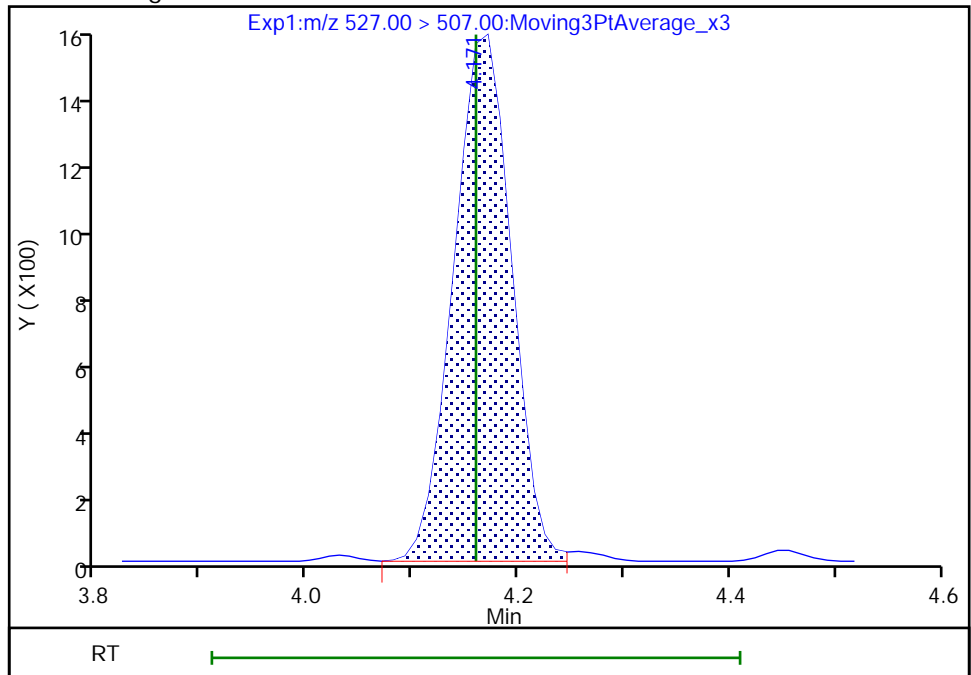
RT: 4.17
Area: 5821
Amount: 0.095800
Amount Units: ng/ml

Processing Integration Results



RT: 4.17
Area: 5882
Amount: 0.096017
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:17:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

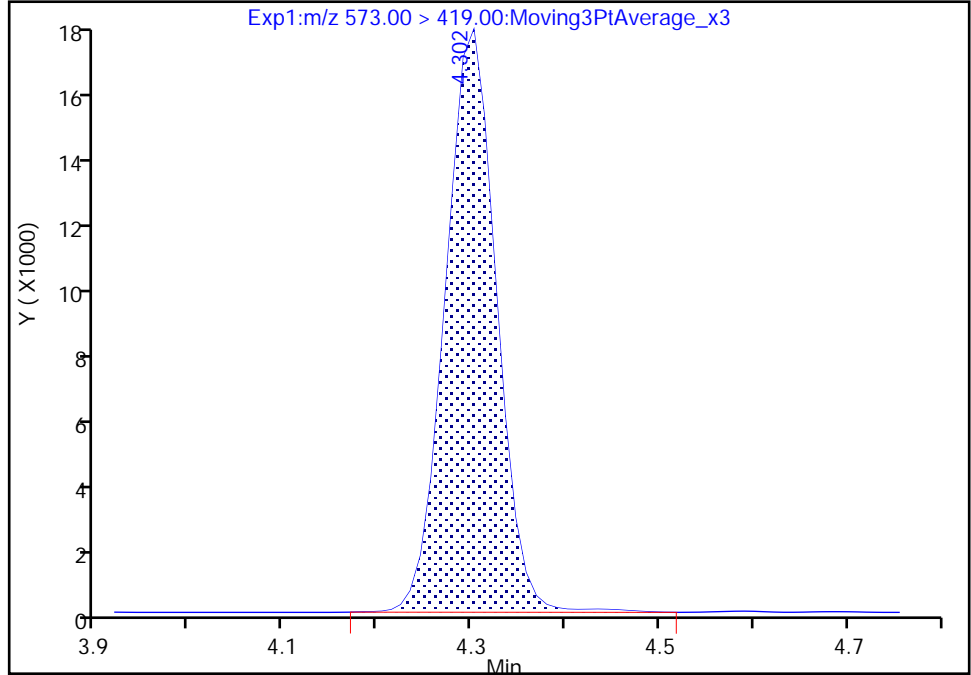
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
Injection Date: 20-May-2021 17:03:56 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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

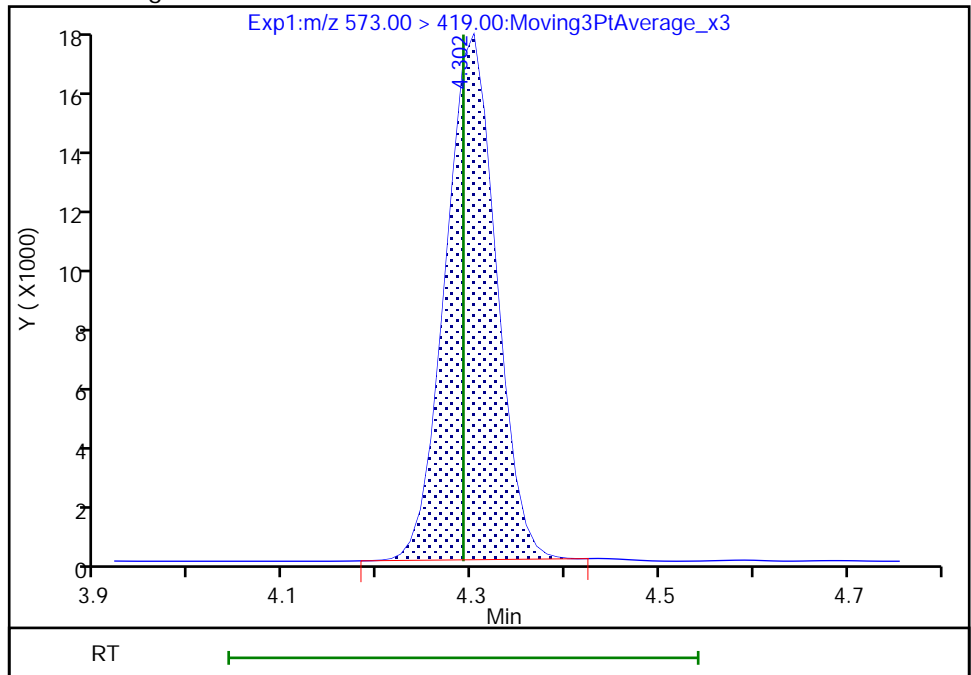
RT: 4.30
Area: 67805
Amount: 1.259621
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 66849
Amount: 1.206269
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:18:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 311 of 761

Eurofins TestAmerica, Burlington

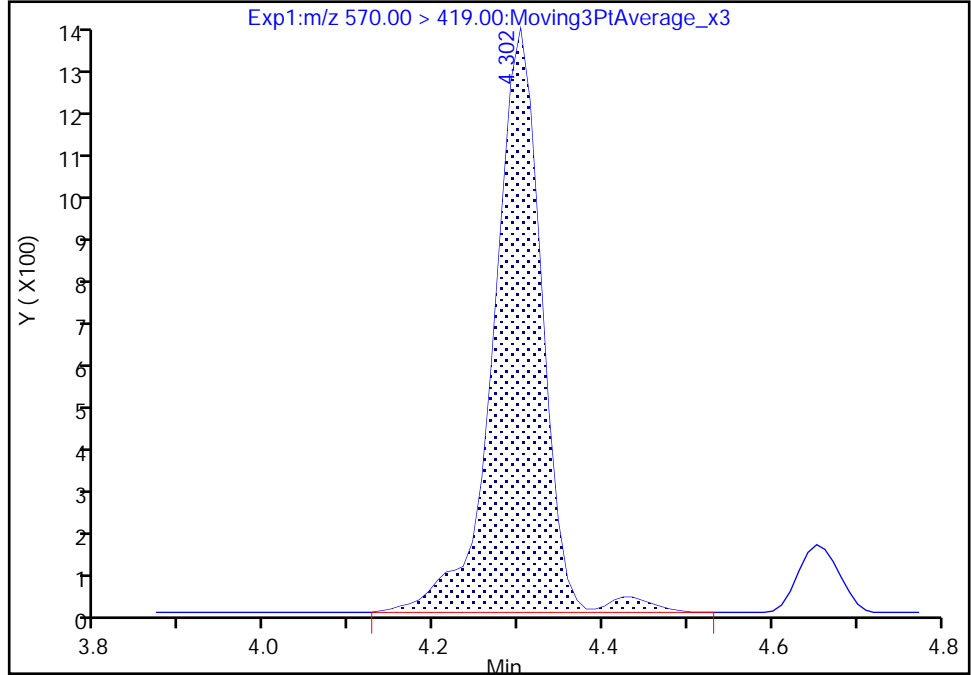
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

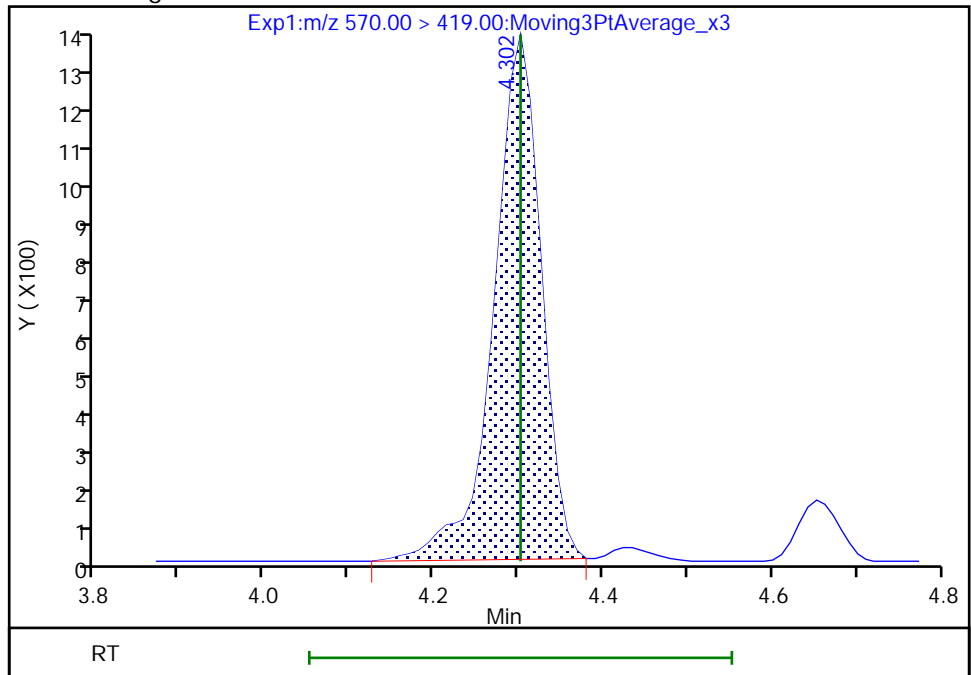
RT: 4.30
Area: 5386
Amount: 0.105858
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 5204
Amount: 0.110692
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

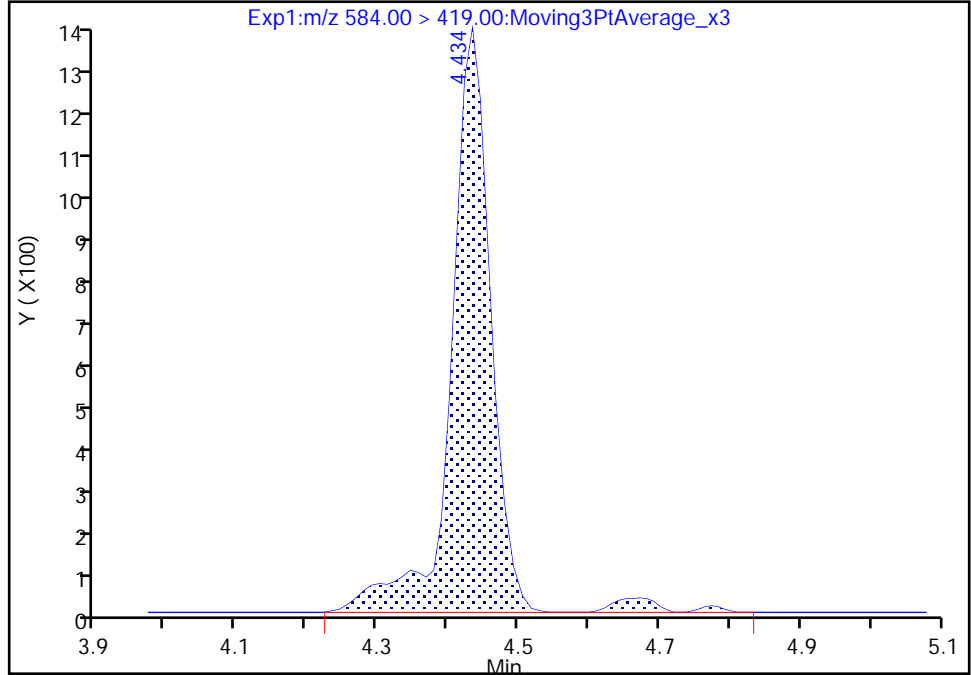
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

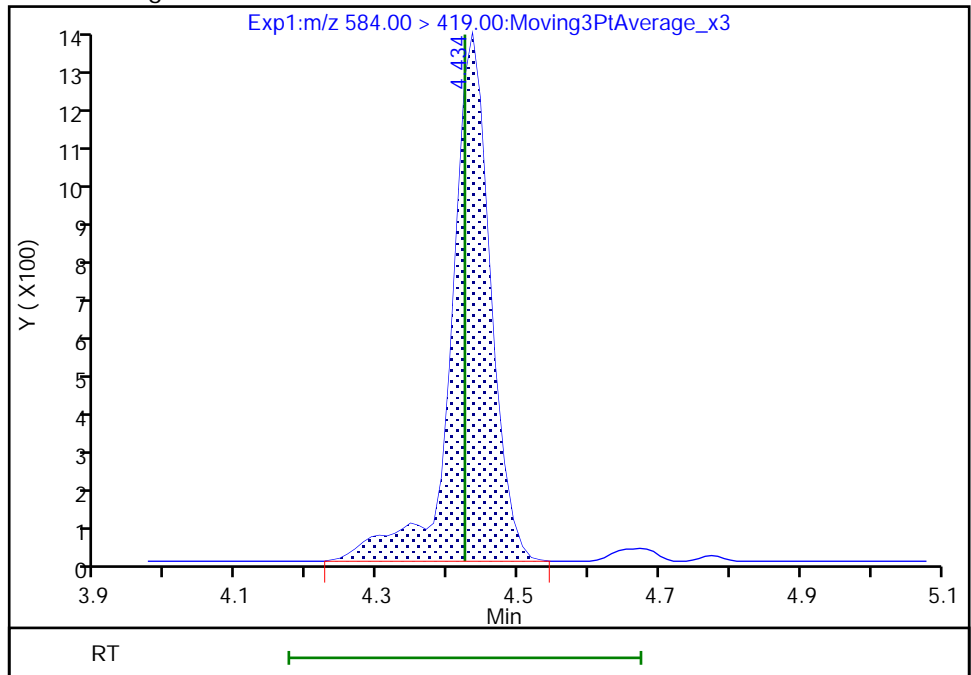
RT: 4.43
Area: 5564
Amount: 0.100000
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 5392
Amount: 0.097533
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

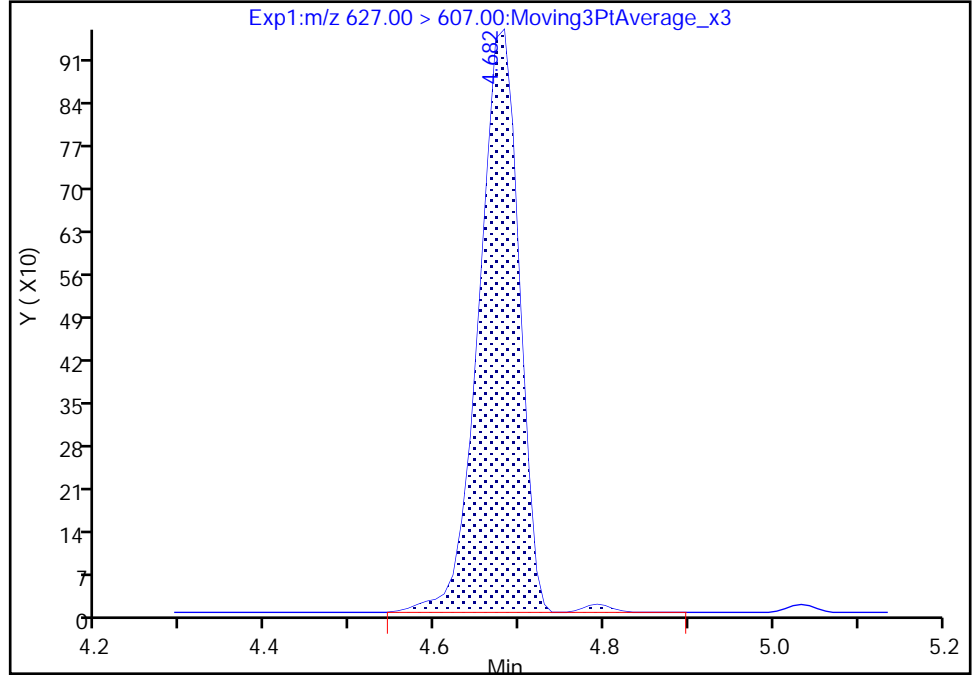
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL03.d
Injection Date: 20-May-2021 17:03:56 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

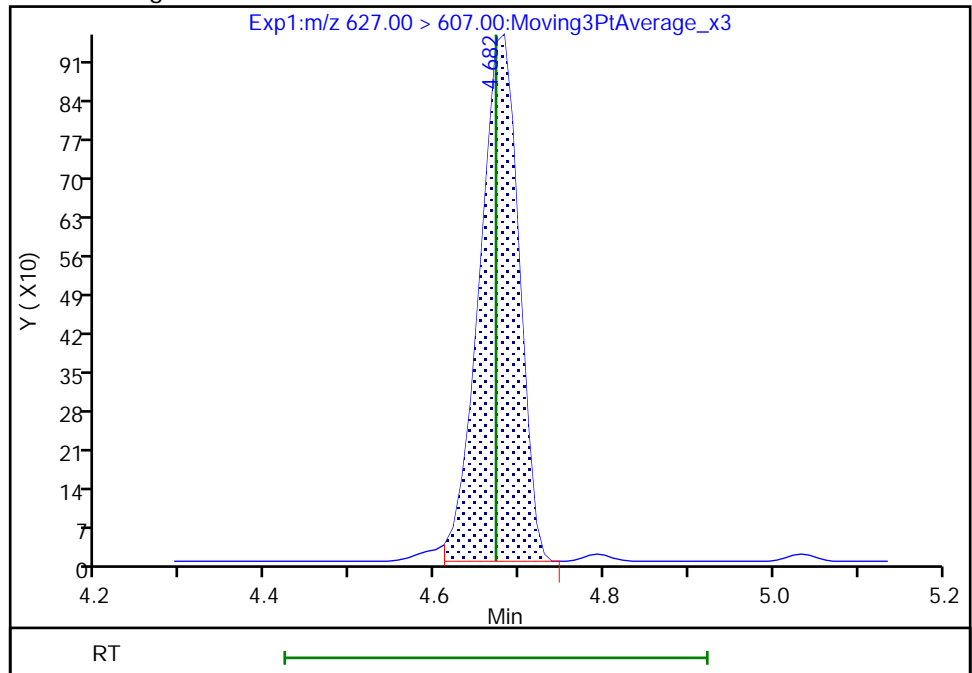
RT: 4.68
Area: 3171
Amount: 0.096400
Amount Units: ng/ml

Processing Integration Results



RT: 4.68
Area: 3095
Amount: 0.098479
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 20-May-2021 17:12:13 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0046072-004 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-May-2021 18:23:36 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1654

First Level Reviewer: chirgwinb Date: 20-May-2021 17:32:36

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	2.115	2.100	0.015	0.606	1577761	1.20	96.1	12835	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.124	2.100	0.024	1.004	598748	0.5074		101	140	M
D 3 13C5 PFPeA	267.90 > 223.00	2.424	2.426	-0.002	0.694	1216889	1.27	102	3850	
4 Perfluoropentanoic acid	262.90 > 219.00	2.424	2.426	-0.002	1.000	499294	0.5073	101	69.4	
D 47 13C3 PFBS	301.90 > 80.00	2.437	2.452	-0.015	0.698	1346916	1.13	97.1	535093	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.437	2.452	-0.015	1.000	538266	0.4509	Target=2.17	102	1383
298.90 > 99.00	2.437	2.452	-0.015	1.000	244269		2.20(1.08-3.25)	102	206	
D 60 M2-4:2 FTS	329.00 > 81.00	2.707	2.758	-0.051	0.775	100254	1.08	92.7	140	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.719	2.758	-0.039	1.004	70343	0.4700	101	1128	
D 7 13C2 PFHxA	315.00 > 270.00	2.744	2.794	-0.050	0.786	1268386	1.22	97.9	4468	
6 Perfluorohexanoic acid	313.00 > 269.00	2.744	2.794	-0.050	1.000	506573	0.4933	Target=12.10	98.7	172
313.00 > 119.00	2.744	2.794	-0.050	1.000	41716		12.14(6.05-18.15)	98.7	95.1	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.744	2.794	-0.050	0.882	530514	0.5013	Target=3.51	107	1222
349.00 > 99.00	2.744	2.794	-0.050	0.882	147246		3.60(1.75-5.26)	107	271	
67 Perfluoro(2-propoxypropanoic) ac	329.10 > 285.00	2.853	2.902	-0.049	1.000	93091	0.4923		98.5	42.7

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	2.853	2.902	-0.049	0.817	142848	1.25		99.6	1404	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.111	3.153	-0.042	1.000	451998	0.4691	Target=4.34	103	1077	
399.00 > 99.00	3.111	3.153	-0.042	1.000	102330		4.42(2.17-6.50)	103	141	
D 11 18O2 PFHxS										
403.00 > 84.00	3.111	3.153	-0.042	0.891	1027735	1.11		93.8	2258	
D 9 13C4 PFHpA										
367.00 > 322.00	3.122	3.164	-0.042	0.894	1253443	1.21		96.8	3038	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.122	3.164	-0.042	1.000	508679	0.5029	Target=3.57	101	270	
363.00 > 169.00	3.122	3.164	-0.042	1.000	144563		3.52(1.78-5.35)	101	328	
77 DONA										
377.00 > 251.00	3.154	3.196	-0.042	0.827	978874	0.4778	Target=2.42	101	1544	
377.00 > 85.00	3.154	3.196	-0.042	0.827	393043		2.49(1.21-3.62)	101	696	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.474	3.510	-0.036	0.911	379365	0.4682	Target=6.39	98.4	2161	
449.00 > 99.00	3.474	3.510	-0.036	0.911	61415		6.18(3.19-9.58)	98.4	217	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.474	3.510	-0.036	0.995	138230	1.13		94.9	602	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.474	3.510	-0.036	1.000	51279	0.4911		104	418	
D 14 13C4 PFOA										
417.00 > 372.00	3.492	3.519	-0.027	1.000	1283177	1.22		97.8	2360	
* 62 13C2 PFOA										
415.00 > 370.00	3.492	3.519	-0.027		1310438	1.25		974		M
15 Perfluorooctanoic acid										
413.00 > 369.00	3.492	3.519	-0.027	1.000	531923	0.5044	Target=2.42	101	242	M
413.00 > 169.00	3.492	3.519	-0.027	1.000	217754		2.44(1.21-3.63)	101	649	M
D 18 13C4 PFOS										
503.00 > 80.00	3.814	3.836	-0.022	1.092	779486	1.17		97.6	4078	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.814	3.836	-0.022	1.000	330096	0.4700	Target=5.78	101	481	M
499.00 > 99.00	3.814	3.836	-0.022	1.000	52896		6.24(2.89-8.66)	101	161	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.836	3.858	-0.022	1.000	484113	0.5258	Target=6.76	105	189	
463.00 > 169.00	3.836	3.858	-0.022	1.000	71733		6.75(3.38-10.14)	105	656	
D 19 13C5 PFNA										
468.00 > 423.00	3.836	3.858	-0.022	1.098	1194826	1.24		98.9	3033	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.983	3.992	-0.009	1.044	320628	0.4745		102	2899	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.115	4.126	-0.011	1.079	245704	0.4698	Target=2.92	97.9	2709	
549.00 > 99.00	4.115	4.126	-0.011	1.079	82249		2.99(1.46-4.38)	97.9	340	
D 23 13C2 PFDA										
515.00 > 470.00	4.137	4.148	-0.011	1.185	1062710	1.25		100	3212	

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	4.148	-0.011	1.000	455733	0.5123	Target=8.21	102	514	
513.00 > 169.00	4.137	4.148	-0.011	1.000	57585		7.91(4.11-12.32)	102	457	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.149	4.160	-0.011	1.188	145607	1.16		96.6	1039	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.160	0.0	1.003	26834	0.4398		91.8	543	
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.214	0.001	1.207	1459190	1.22		97.6	5050	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.214	0.001	1.000	564949	0.4947		98.9	1843	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.280	4.291	-0.011	1.226	67986	1.19		94.8	451	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.291	4.302	-0.011	1.003	24226	0.5067		101	170	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.380	4.380	0.0	1.148	197588	0.4800	Target=2.74	99.6	1677	
599.00 > 99.00	4.380	4.380	0.0	1.148	70103		2.82(1.37-4.11)	99.6	731	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.413	4.413	0.0	1.003	343860	0.5146	Target=7.58	103	583	
563.00 > 169.00	4.413	4.413	0.0	1.003	46435		7.41(3.79-11.36)	103	731	
D 30 13C2 PFUnA										
565.00 > 520.00	4.402	4.413	-0.011	1.261	844376	1.24		99.3	3451	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.413	4.424	-0.011	1.264	68842	1.20		95.7	541	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.424	4.424	0.0	1.002	23449	0.4790		95.8	383	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.505	4.505	0.0	1.181	286050	0.4757		101	1629	
D 36 13C2 PFDaA										
615.00 > 570.00	4.642	4.642	0.0	1.329	848766	1.19		95.4	2157	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.642	4.653	-0.011	1.000	363129	0.5334	Target=5.88	107	189	
613.00 > 169.00	4.642	4.653	-0.011	1.000	60975		5.96(2.94-8.82)	107	914	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.663	4.672	-0.009	1.124	15559	0.4971		103	638	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.822	4.822	0.0	1.264	69995	0.4984	Target=0.46	103	954	
699.00 > 99.00	4.822	4.822	0.0	1.264	147514		0.47(0.23-0.69)	103	1807	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.866	4.866	0.0	1.048	282699	0.5150	Target=3.79	103	178	
663.00 > 169.00	4.856	4.866	-0.010	1.046	74824		3.78(1.89-5.68)	103	903	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.053	0.0	1.447	633741	1.22		97.4	3479	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.053	0.0	1.000	53904	0.5199	Target=1.07	104	778	
713.00 > 219.00	5.043	5.053	-0.010	0.998	50811		1.06(0.53-1.60)	104	2114	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.406	5.406	0.0	1.000	248140	0.5238	Target=3.53	105	193	
813.00 > 169.00	5.406	5.406	0.0	1.000	70556		3.52(1.77-5.30)	105	1335	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.406	5.406	0.0	1.548	607503	1.19		95.3	2864	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.747	5.747	0.0	1.063	211231	0.5088	Target=3.39	102	225	
913.00 > 169.00	5.738	5.747	-0.009	1.062	63599		3.32(1.69-5.08)	102	1054	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC3_00010

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d

Injection Date: 20-May-2021 17:12:13

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

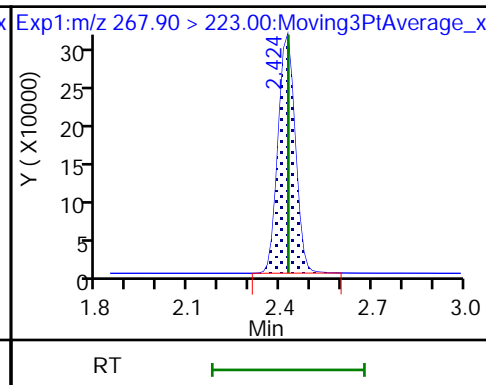
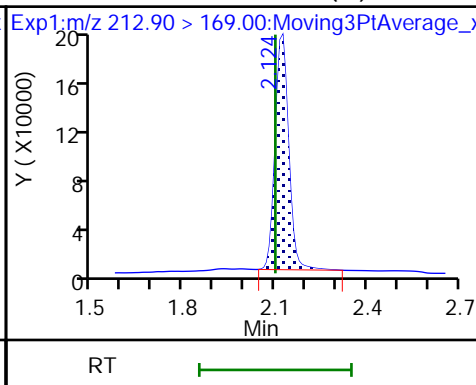
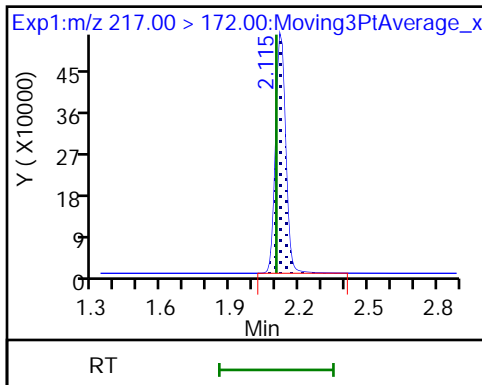
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

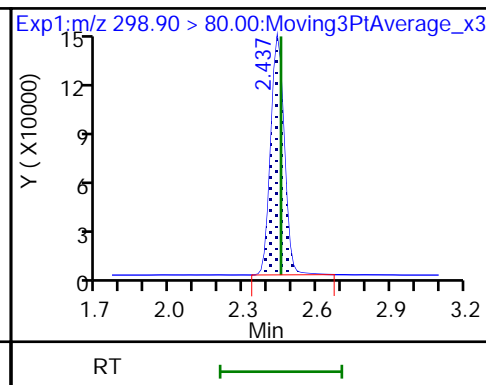
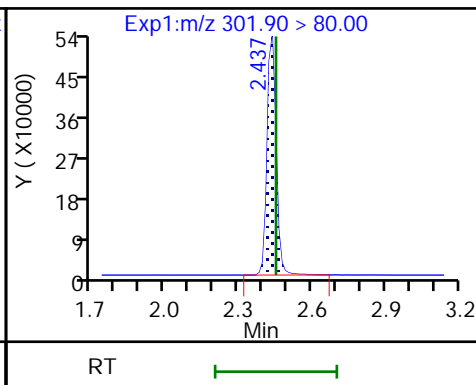
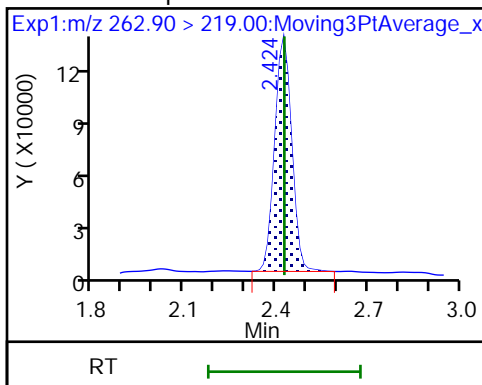
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

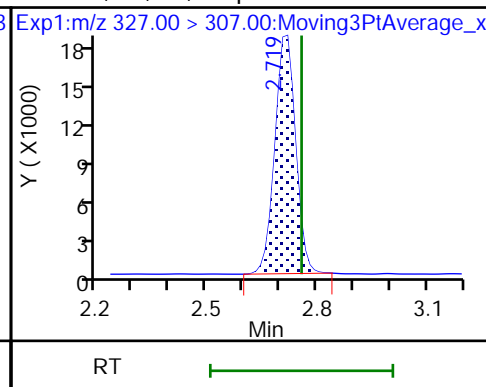
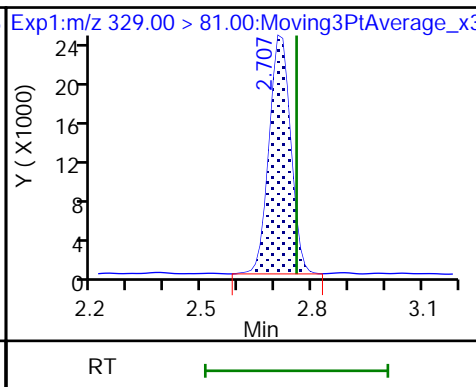
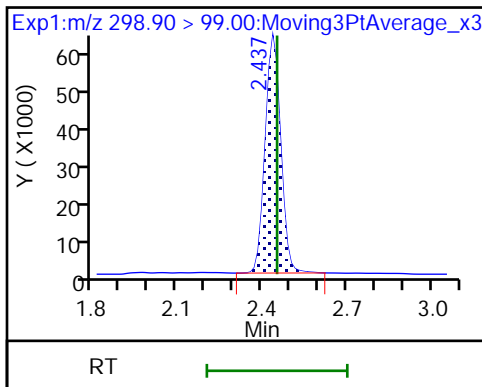
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

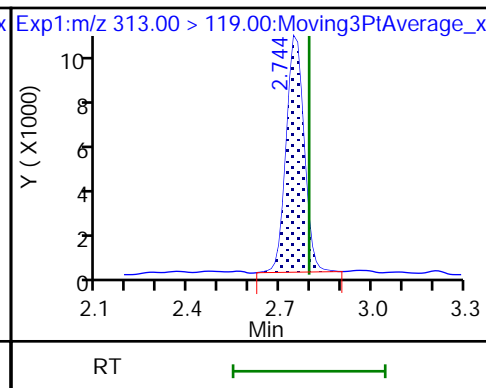
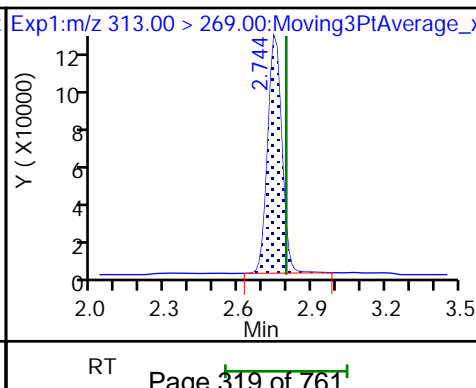
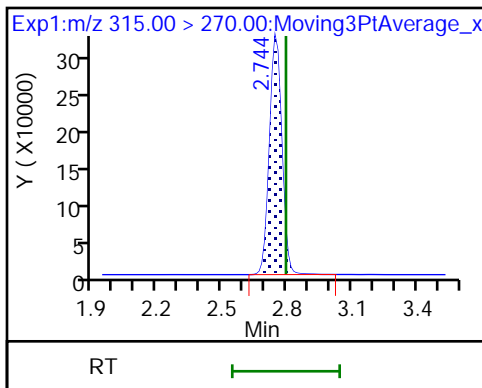
61 1H,1H,2H,2H-perfluorohexanesulfo

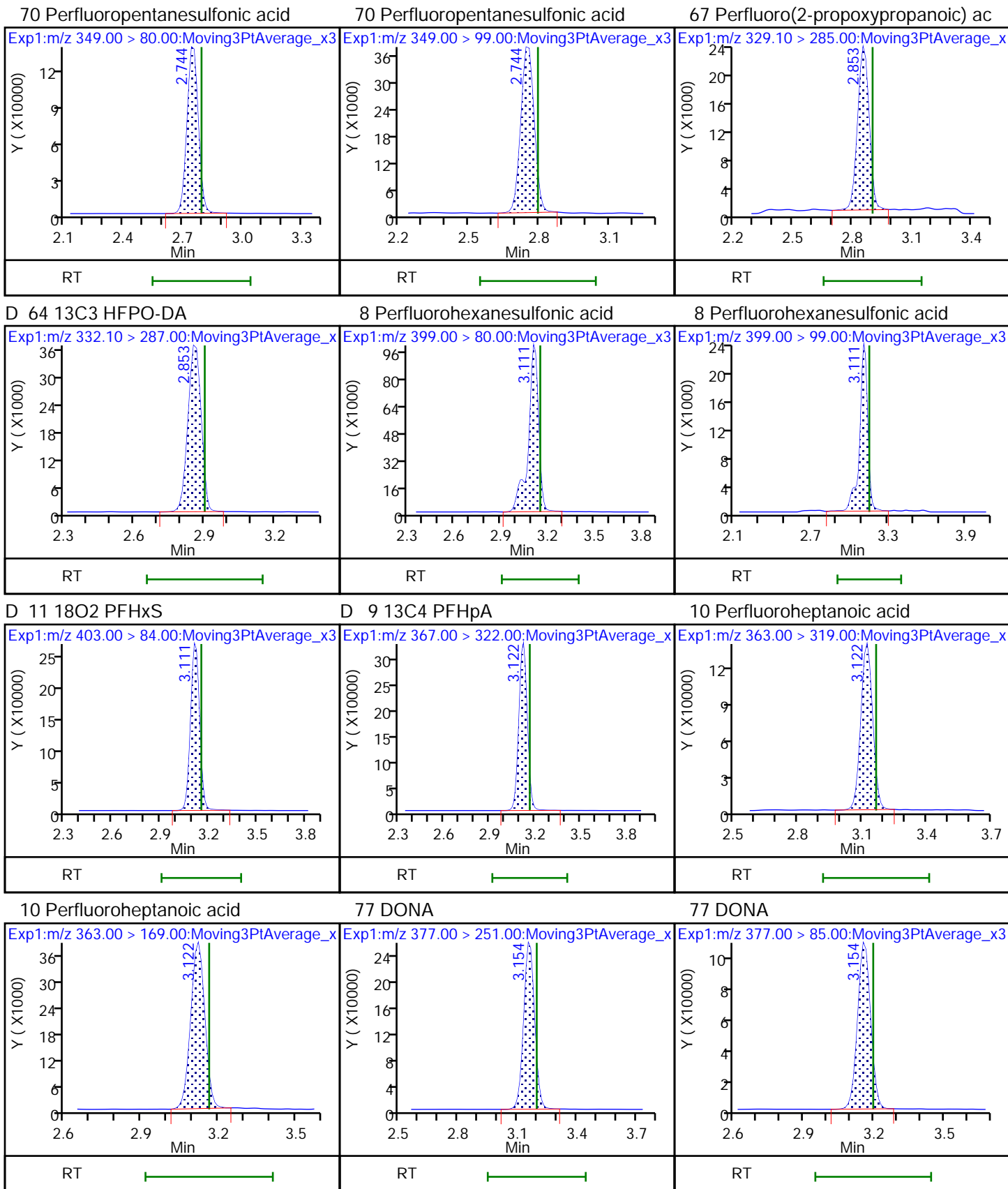


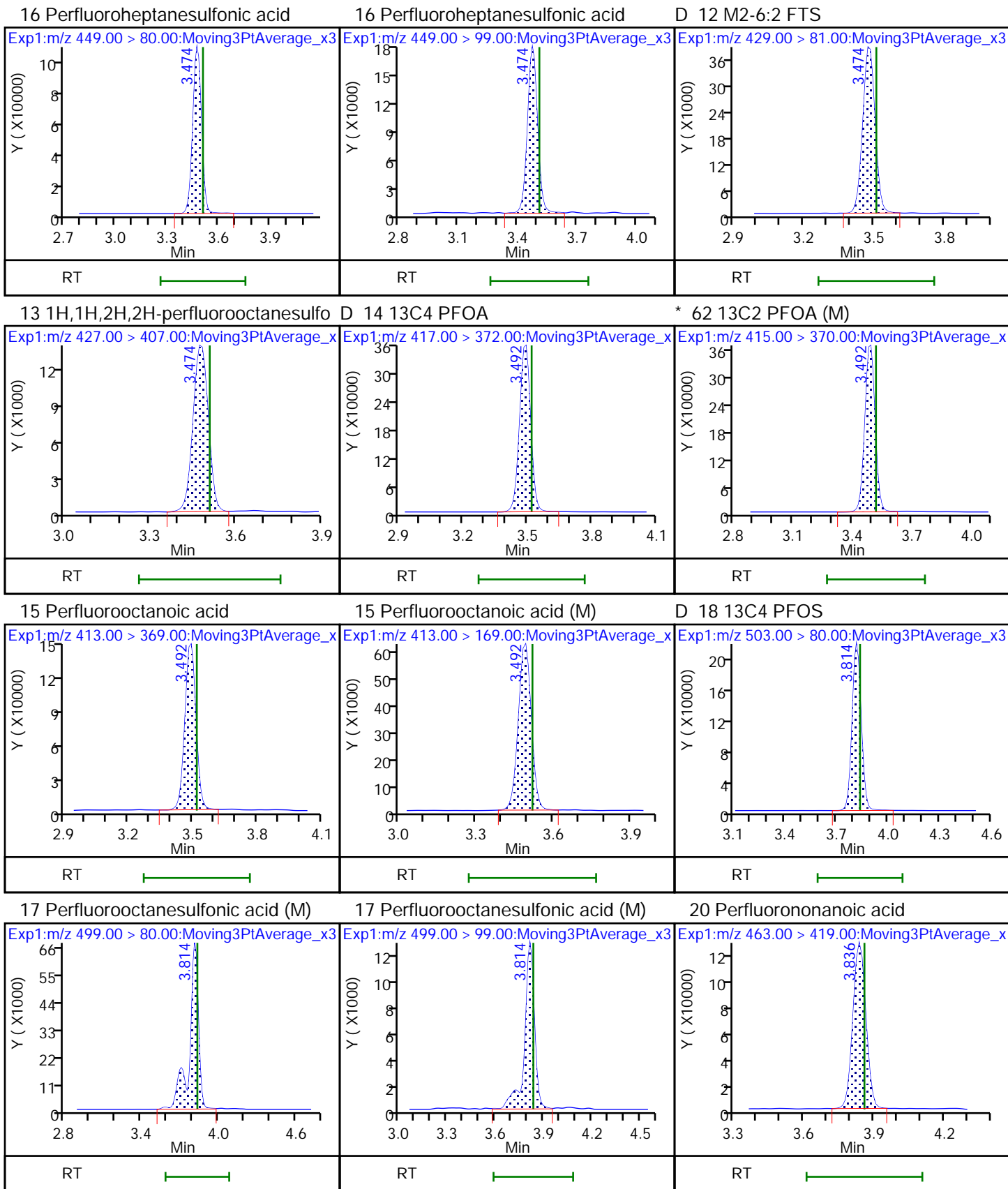
D 7 13C2 PFHxA

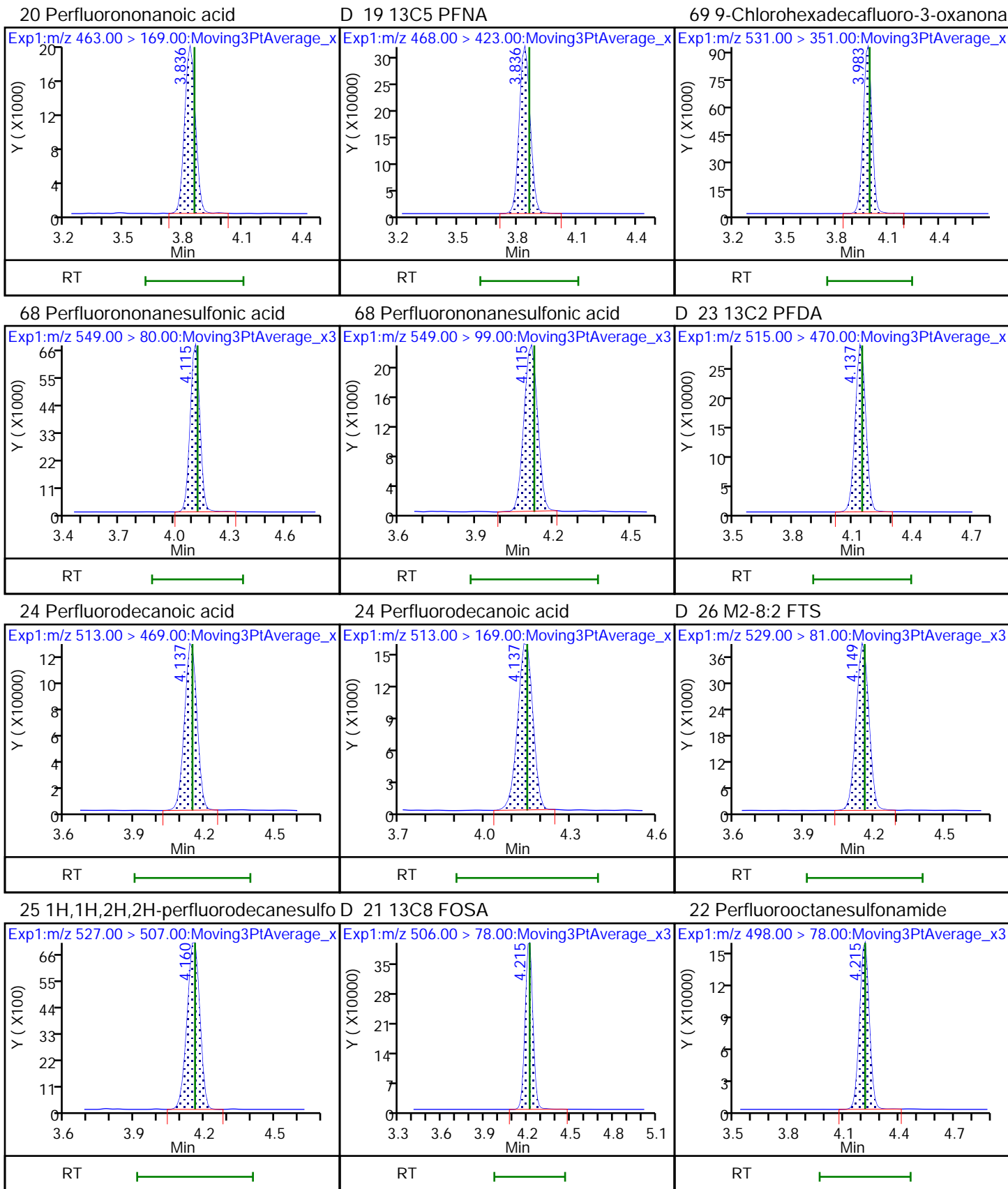
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid



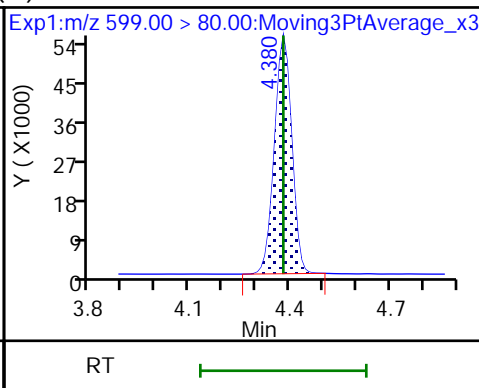
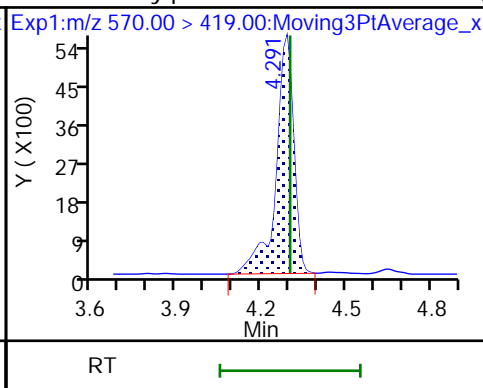
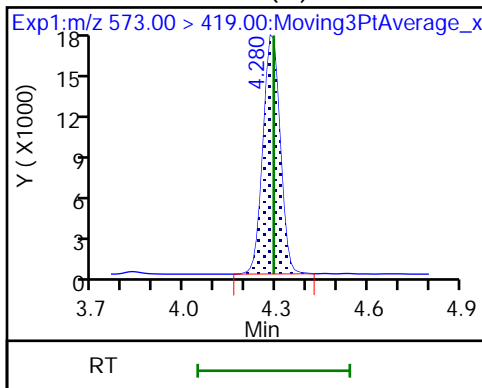






D 27 d3-NMeFOSAA (M)

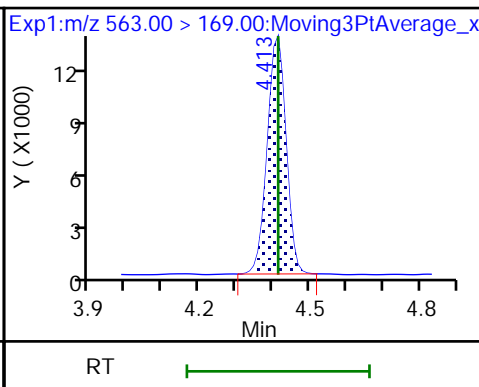
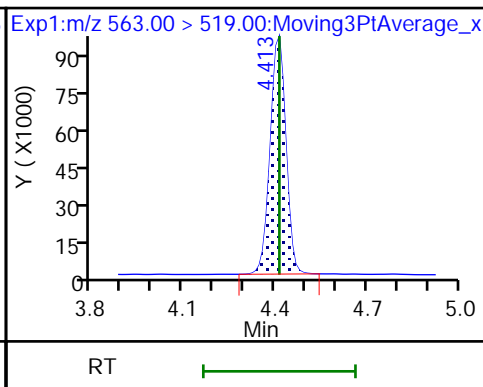
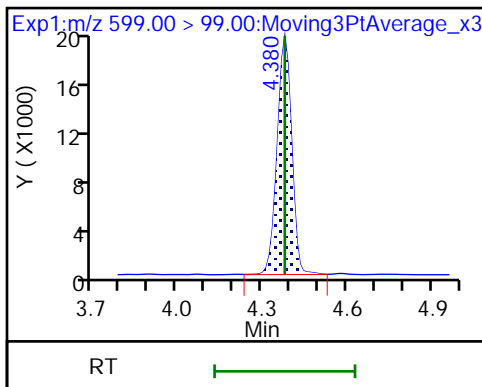
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

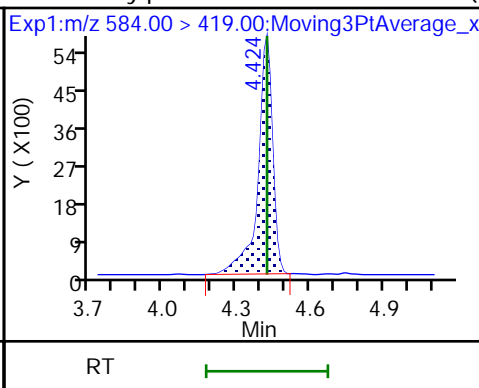
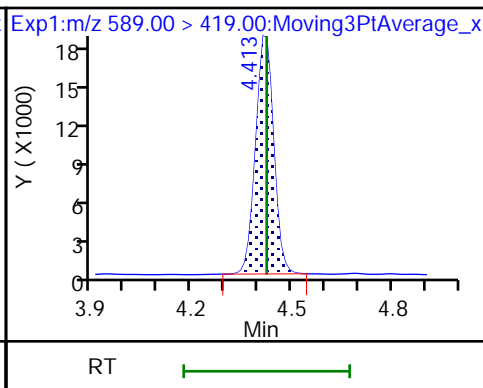
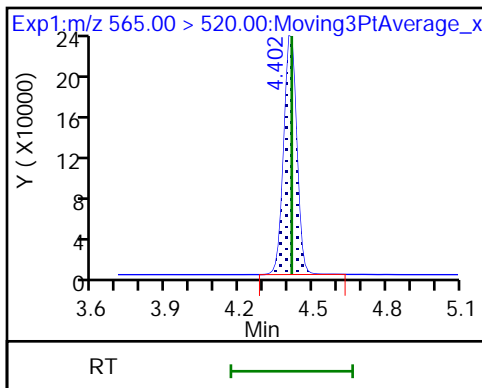
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

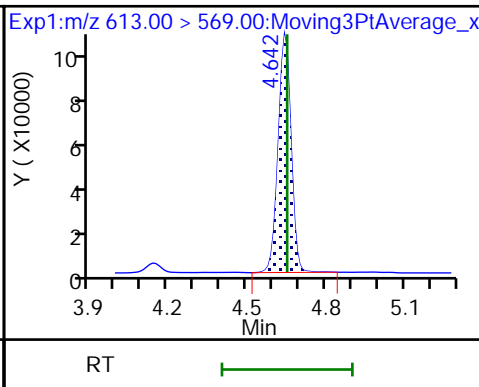
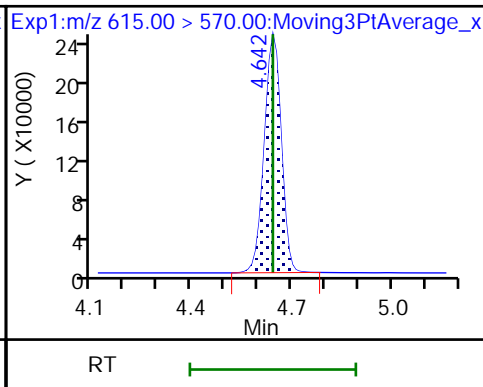
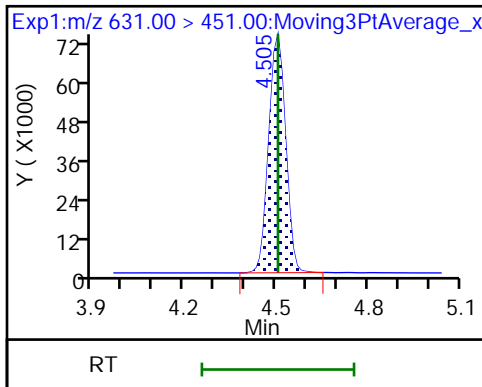
33 N-ethylperfluorooctanesulfonamid (M)

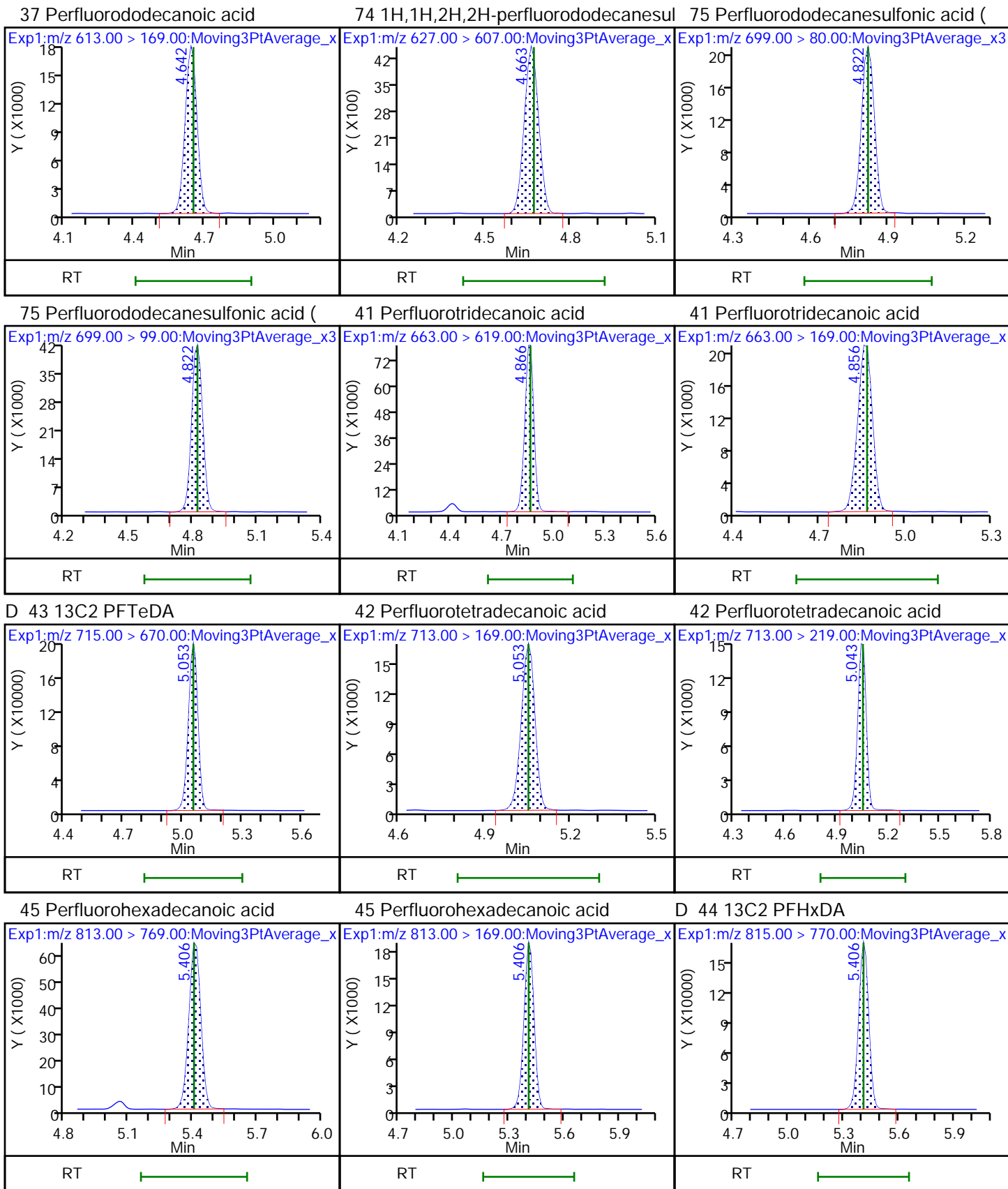


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

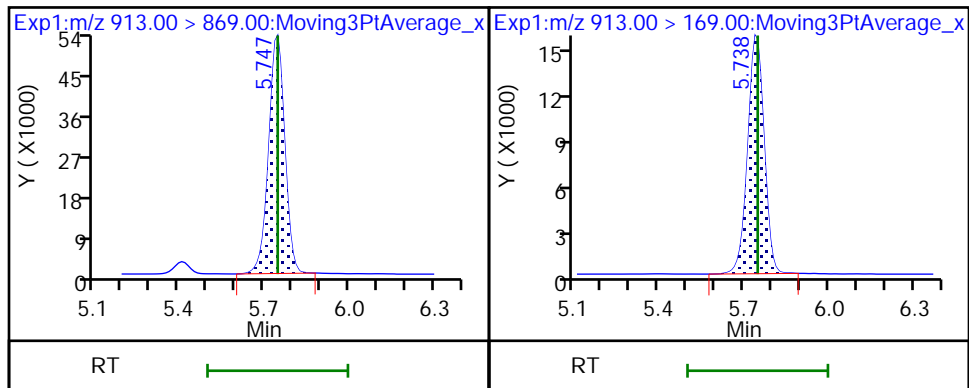
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

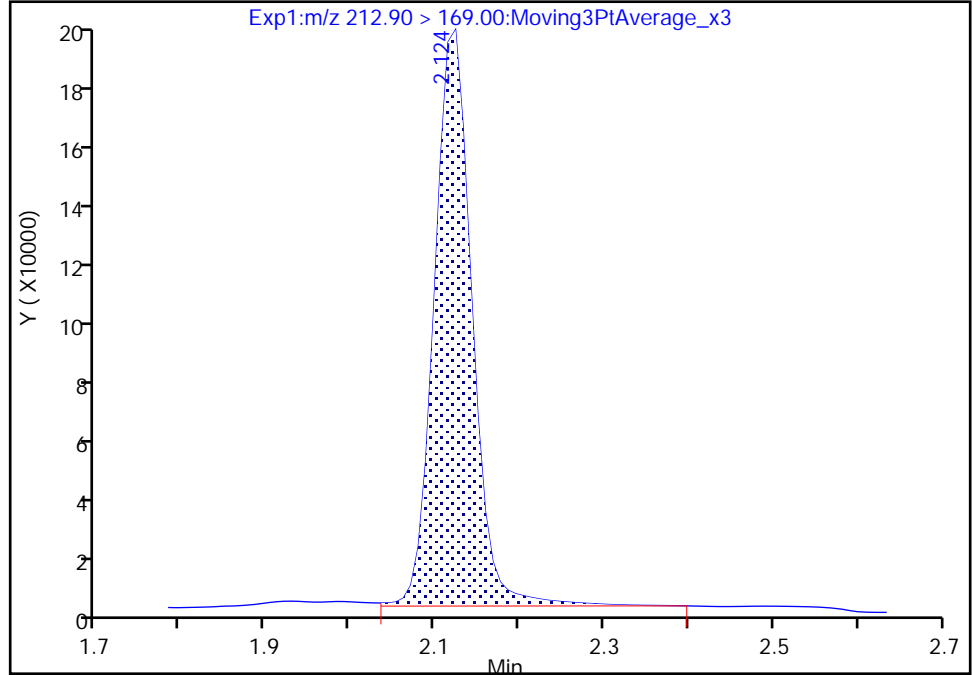
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d
Injection Date: 20-May-2021 17:12:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

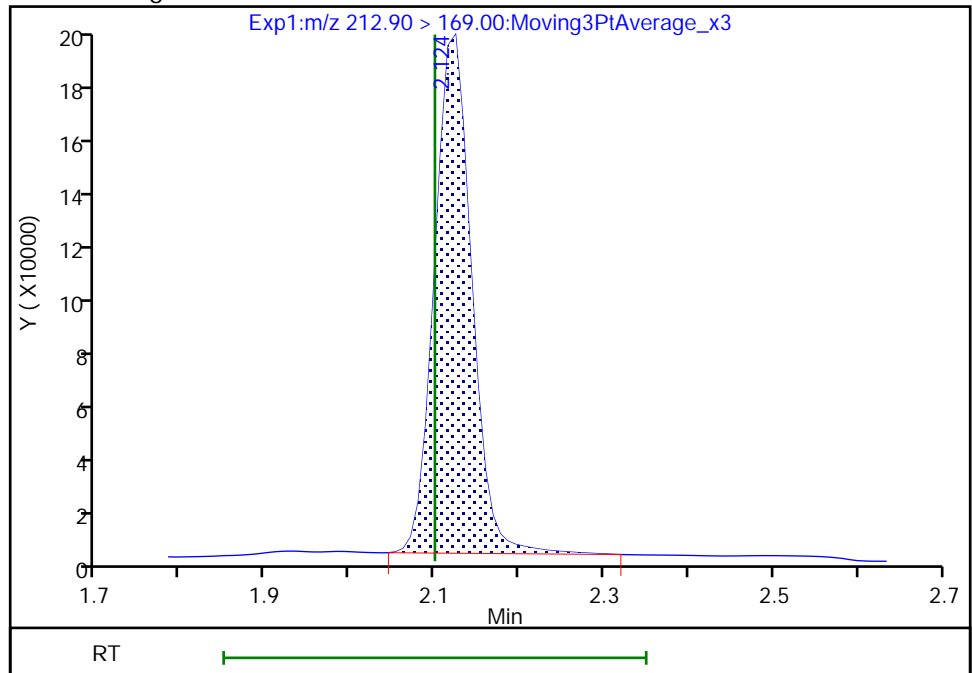
RT: 2.12
Area: 611658
Amount: 0.502874
Amount Units: ng/ml

Processing Integration Results



RT: 2.12
Area: 598748
Amount: 0.507398
Amount Units: ng/ml

Manual Integration Results



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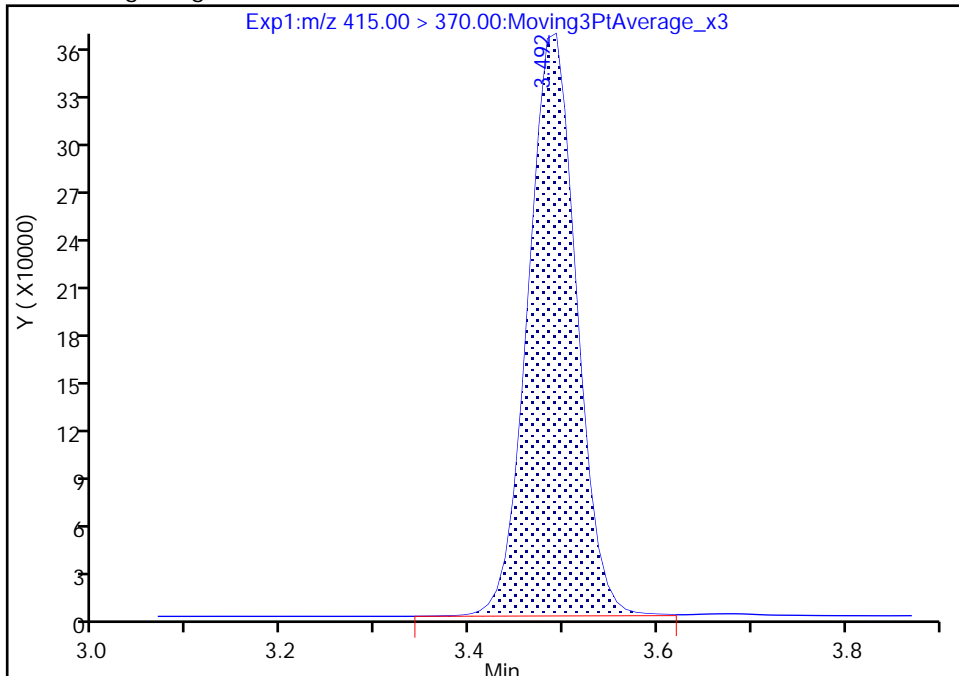
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d
Injection Date: 20-May-2021 17:12:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

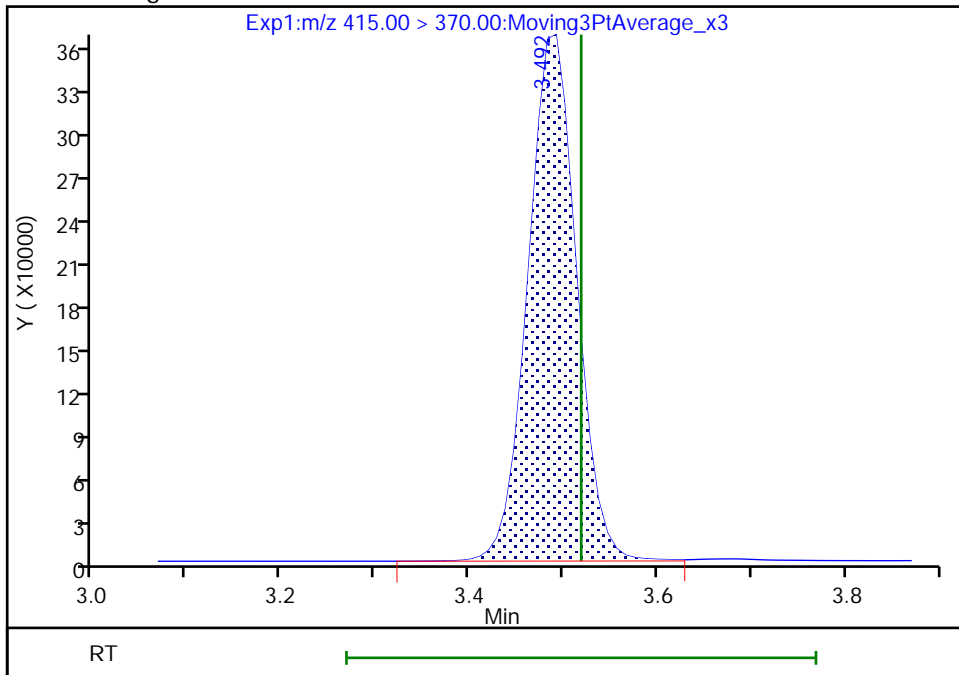
RT: 3.49
Area: 1307820
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.49
Area: 1310438
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:21:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

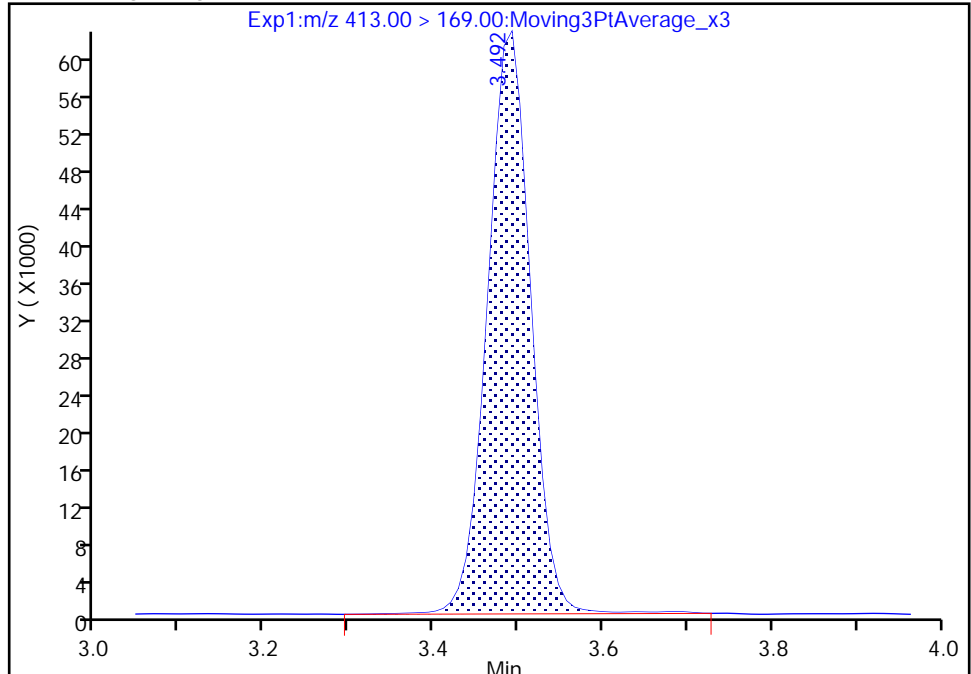
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d
Injection Date: 20-May-2021 17:12:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

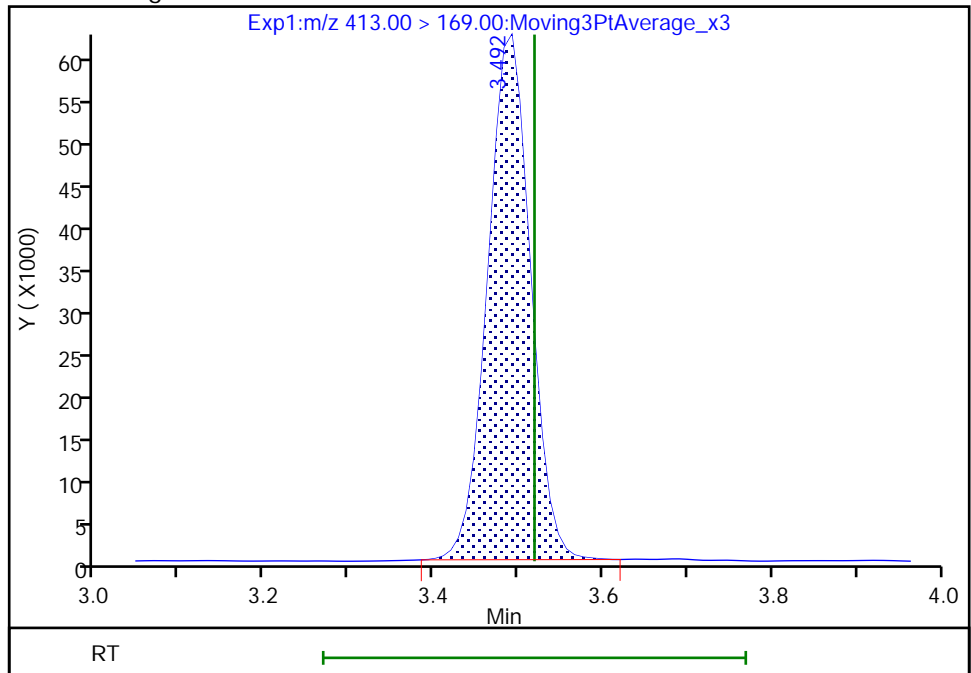
RT: 3.49
Area: 220689
Amount: 0.498498
Amount Units: ng/ml

Processing Integration Results



RT: 3.49
Area: 217754
Amount: 0.504442
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:31:18
Audit Action: Manually Integrated

Euofins TestAmerica, Burlington

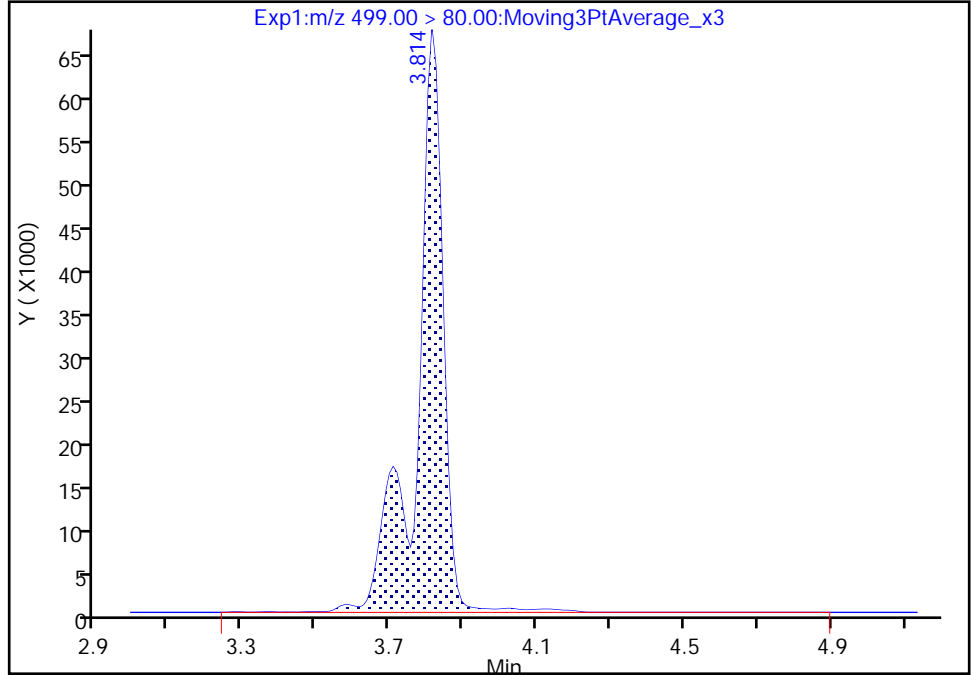
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d
Injection Date: 20-May-2021 17:12:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

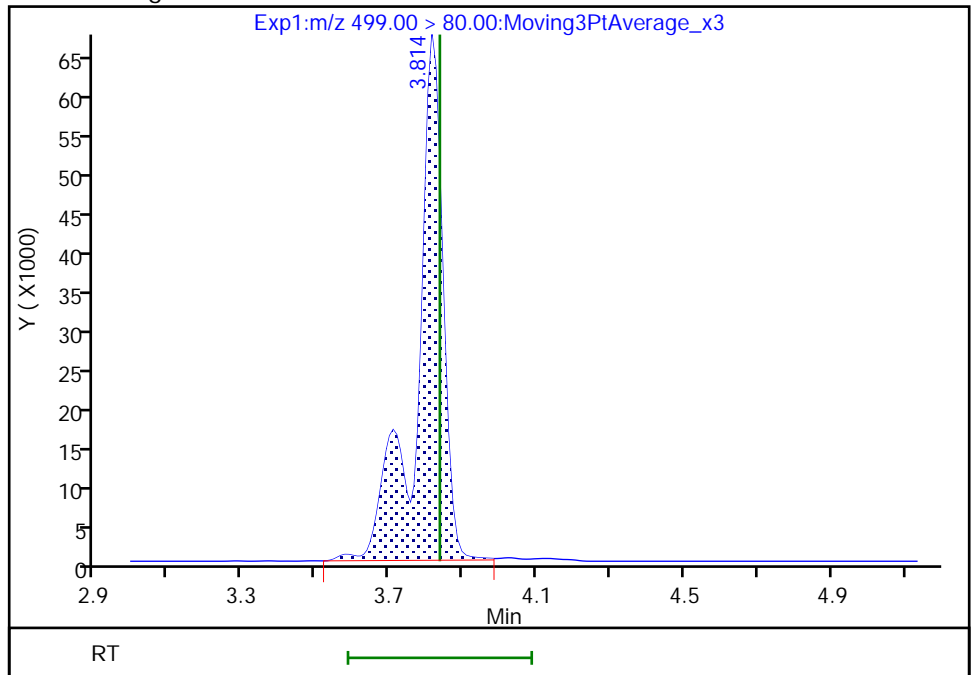
RT: 3.81
Area: 337845
Amount: 0.468250
Amount Units: ng/ml

Processing Integration Results



RT: 3.81
Area: 330096
Amount: 0.470039
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

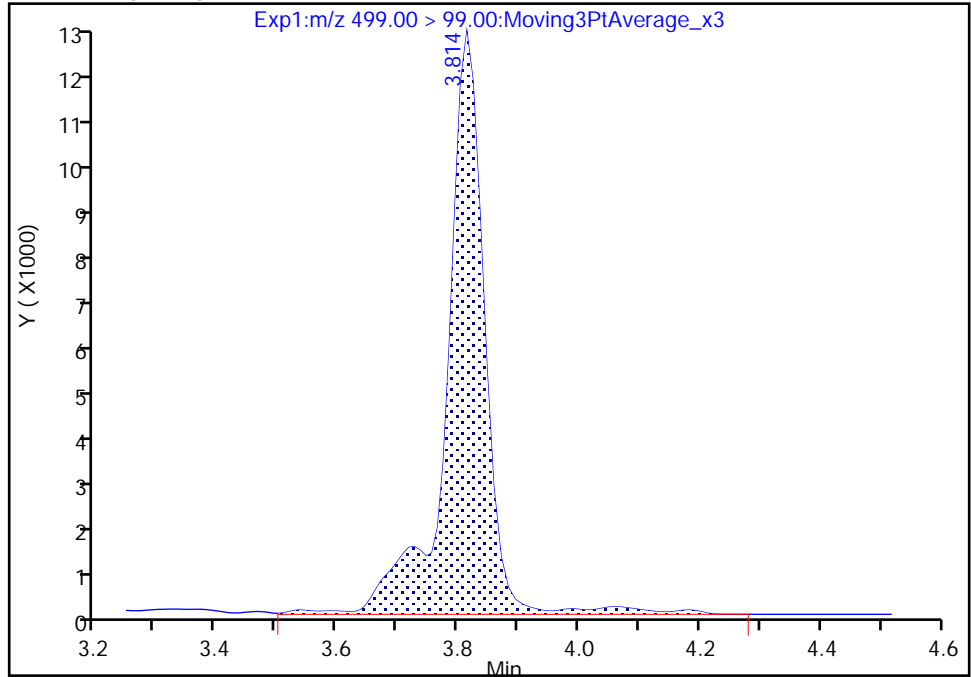
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d
Injection Date: 20-May-2021 17:12:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

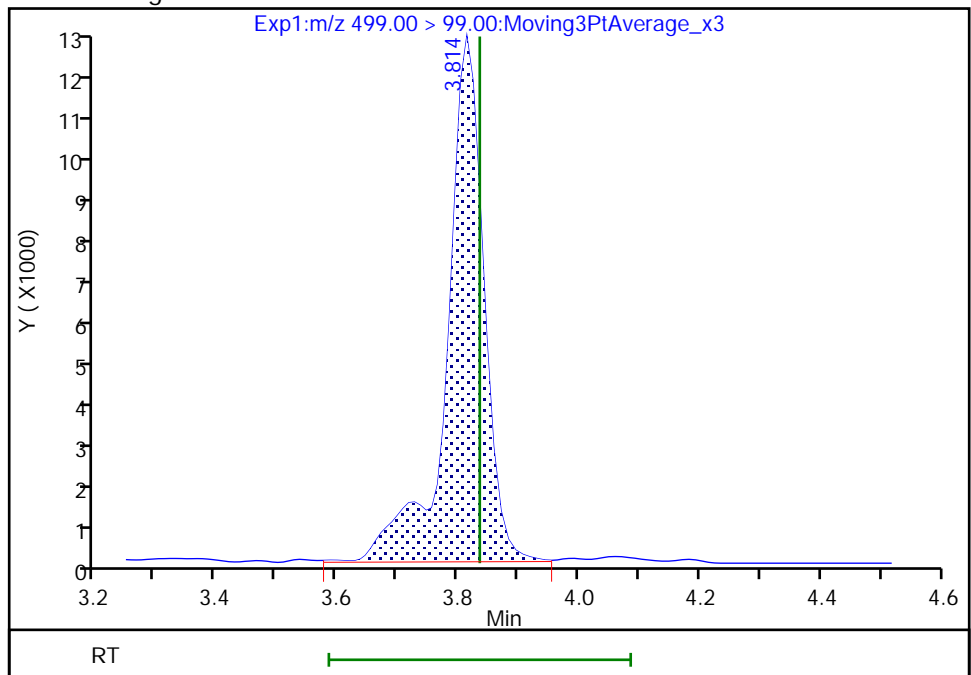
RT: 3.81
Area: 55343
Amount: 0.468250
Amount Units: ng/ml

Processing Integration Results



RT: 3.81
Area: 52896
Amount: 0.470039
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:31:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

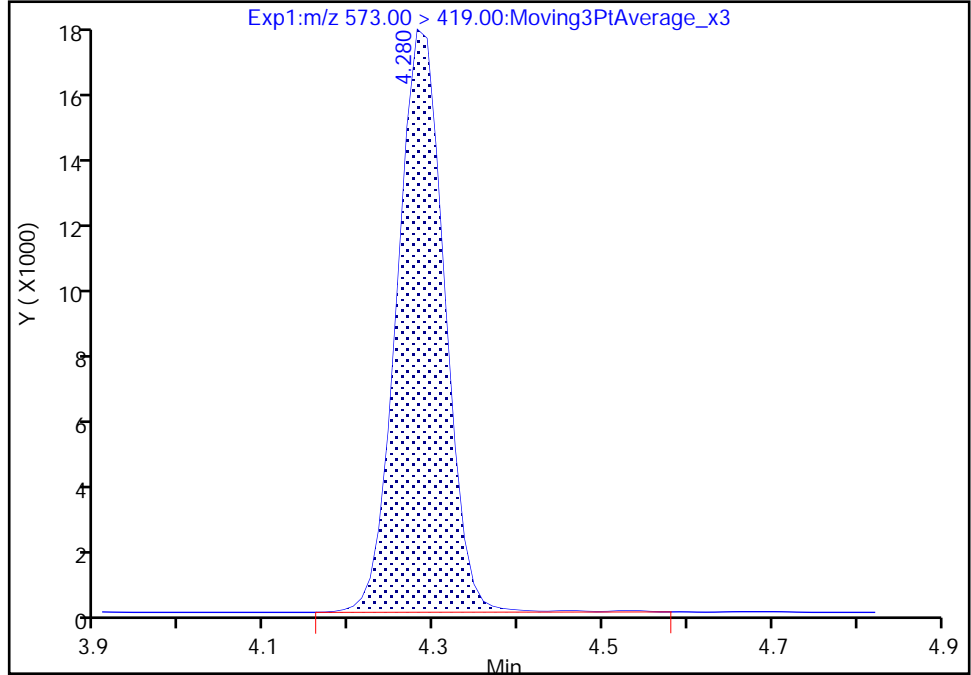
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d
Injection Date: 20-May-2021 17:12:13 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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

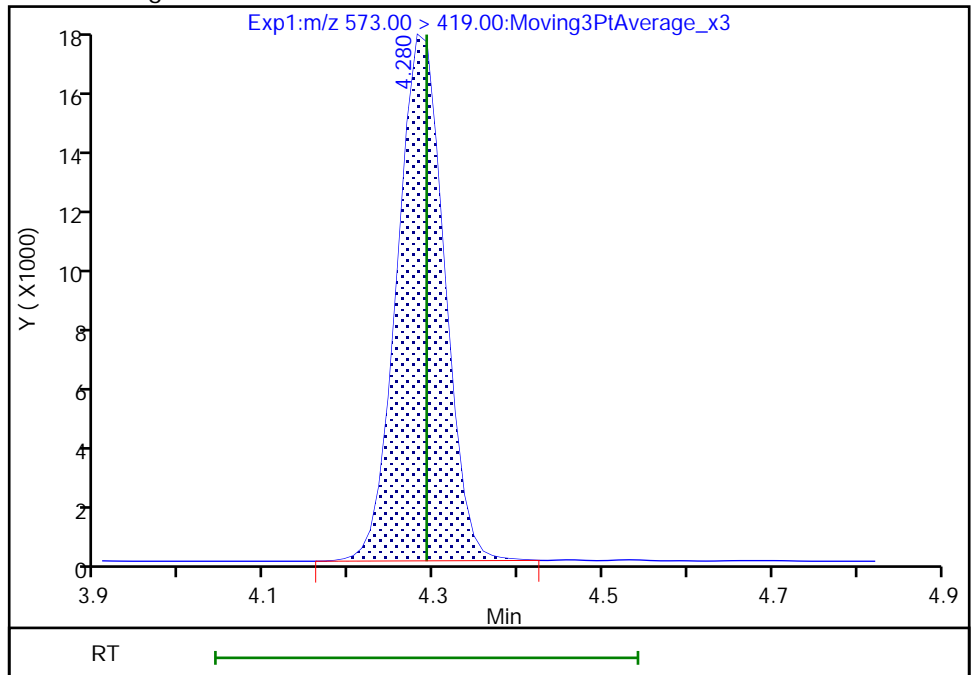
RT: 4.28
Area: 68332
Amount: 1.239981
Amount Units: ng/ml

Processing Integration Results



RT: 4.28
Area: 67986
Amount: 1.185407
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

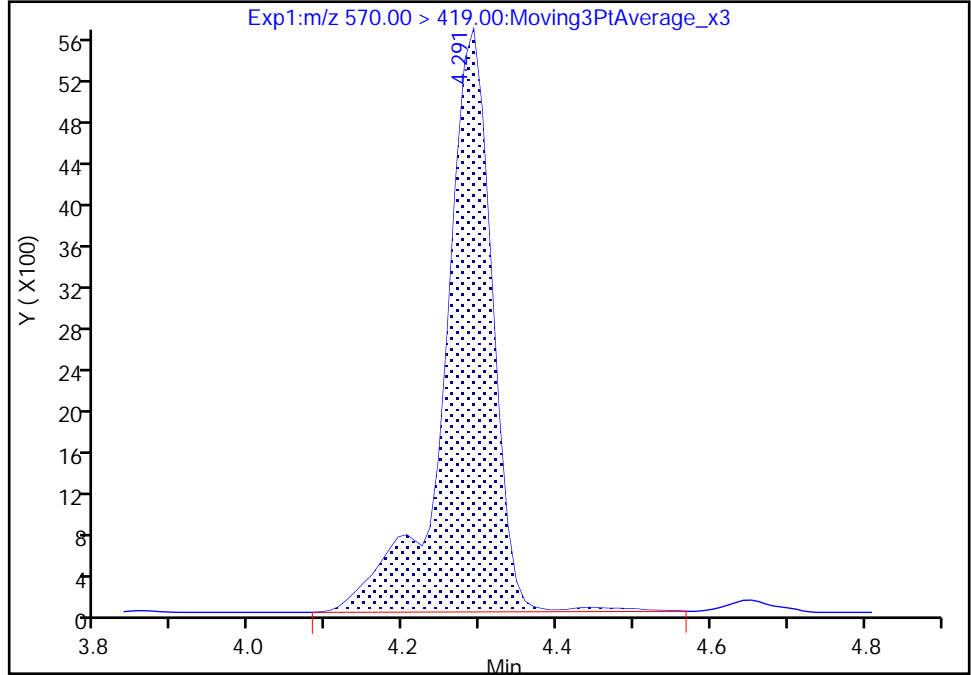
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL04.d
Injection Date: 20-May-2021 17:12:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

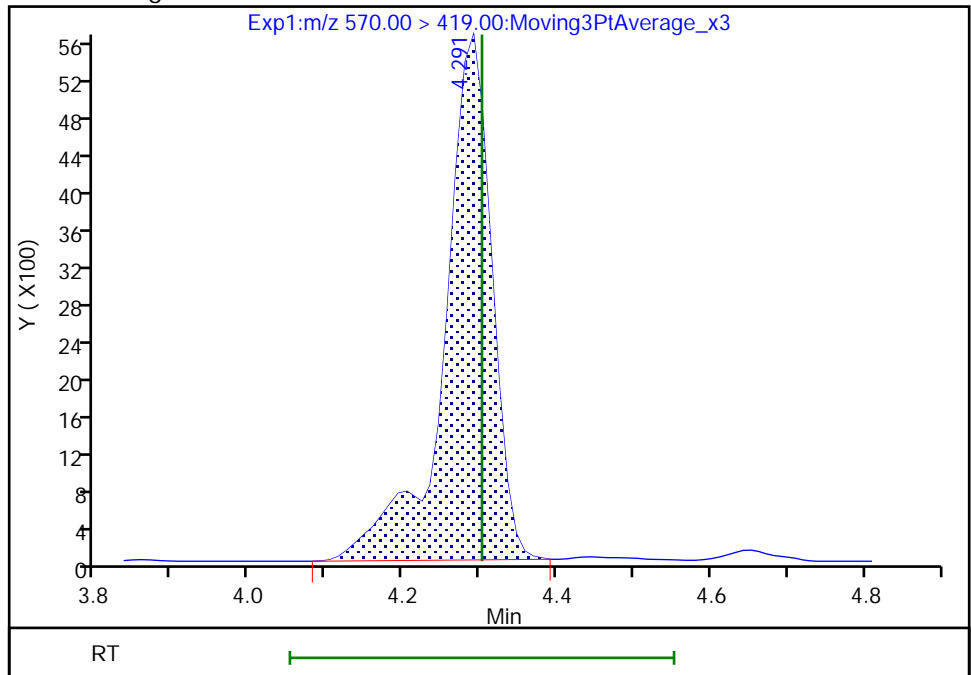
RT: 4.29
Area: 24588
Amount: 0.496294
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 24226
Amount: 0.506682
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:32:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

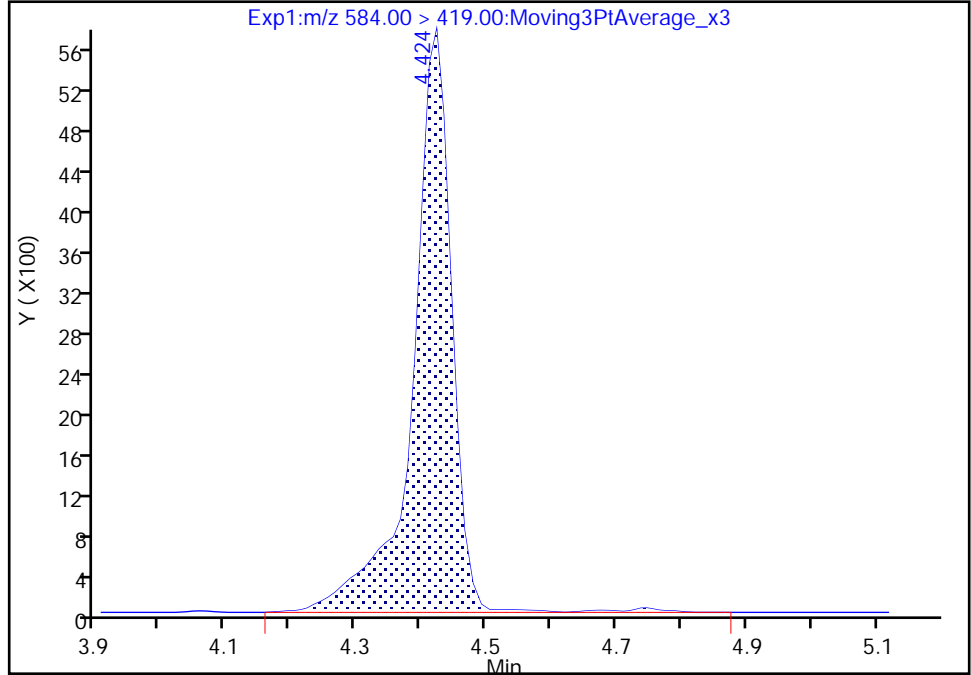
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Injection Date: 20-May-2021 17:12:13 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

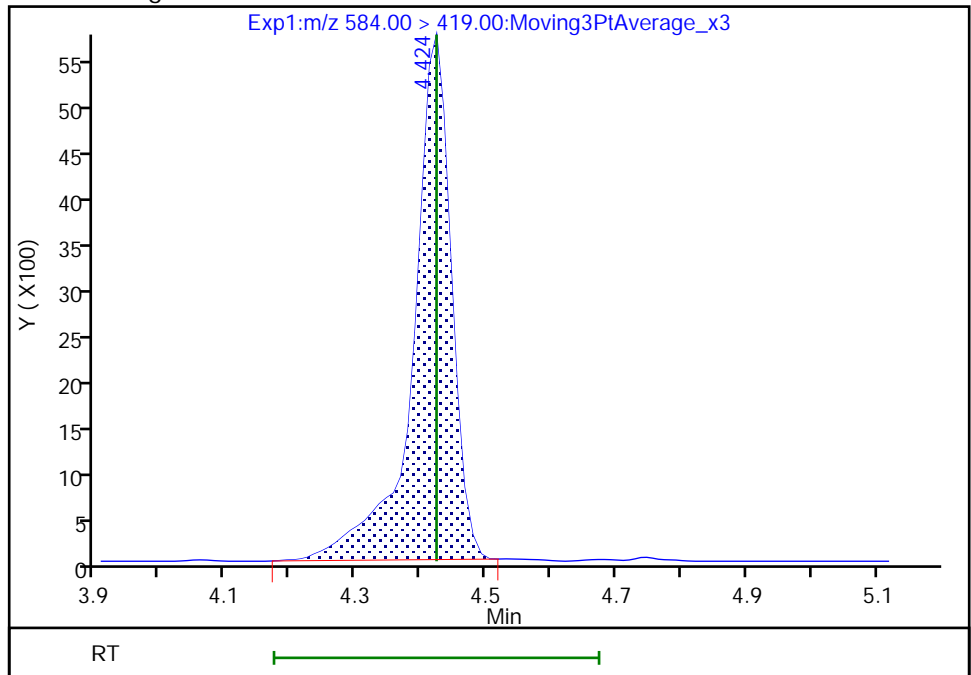
RT: 4.42
Area: 24030
Amount: 0.513063
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 23449
Amount: 0.478996
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:32:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL05.d
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 20-May-2021 17:20:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 200-0046072-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-May-2021 18:23:42 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1654

First Level Reviewer: chirgwinb Date: 20-May-2021 17:39:23

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	2.100	0.0	0.597	1610139	1.23	98.3	10230	
2 Perfluorobutanoic acid	212.90 > 169.00	2.100	2.100	0.0	1.000	1169987	0.9715	97.2	282	
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1131413	1.19	95.0	3646	
4 Perfluoropentanoic acid	262.90 > 219.00	2.426	2.426	0.0	1.000	883409	0.9654	96.5	114	
D 47 13C3 PFBS	301.90 > 80.00	2.452	2.452	0.0	0.697	1308082	1.10	94.5	461984	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.452	2.452	0.0	1.000	1011370	0.8724	Target=2.17	98.7	2572
	298.90 > 99.00	2.452	2.452	0.0	1.000	462789		2.19(1.08-3.25)	98.7	373
D 60 M2-4:2 FTS	329.00 > 81.00	2.758	2.758	0.0	0.784	102031	1.10	94.6	144	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.758	2.758	0.0	1.000	144400	0.9480	101	3314	
D 7 13C2 PFHxA	315.00 > 270.00	2.794	2.794	0.0	0.794	1245278	1.20	96.3	3746	
6 Perfluorohexanoic acid	313.00 > 269.00	2.794	2.794	0.0	1.000	1018445	1.01	Target=12.10	101	328
	313.00 > 119.00	2.794	2.794	0.0	1.000	84038		12.12(6.05-18.15)	101	172
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.794	2.794	0.0	0.886	1009421	0.9491	Target=3.51	101	2553
	349.00 > 99.00	2.794	2.794	0.0	0.886	281941		3.58(1.75-5.26)	101	448
67 Perfluoro(2-propoxypropanoic) ac	329.10 > 285.00	2.902	2.902	0.0	1.000	177878	1.01		101	82.3

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	0.825	132814	1.16		92.9	1327	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.153	3.153	0.0	1.000	862086	0.8903	Target=4.34	97.8	2022	
399.00 > 99.00	3.153	3.153	0.0	1.000	203758		4.23(2.17-6.50)	97.8	310	
D 11 18O2 PFHxS										
403.00 > 84.00	3.153	3.153	0.0	0.896	1032926	1.12		94.5	2833	
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.164	0.0	0.899	1279392	1.24		99.0	2331	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.164	3.164	0.0	1.000	999693	0.9683	Target=3.57	96.8	498	
363.00 > 169.00	3.164	3.164	0.0	1.000	286065		3.49(1.78-5.35)	96.8	550	
77 DONA										
377.00 > 251.00	3.196	3.196	0.0	0.833	1930010	0.9808	Target=2.42	104	3212	
377.00 > 85.00	3.196	3.196	0.0	0.833	794361		2.43(1.21-3.62)	104	1464	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.510	3.510	0.0	0.915	734537	0.9438	Target=6.39	99.1	1774	
449.00 > 99.00	3.510	3.510	0.0	0.915	118314		6.21(3.19-9.58)	99.1	546	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	135367	1.11		93.1	694	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	104494	1.02		108	997	
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1323677	1.26		101	3510	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1307398	1.25			288	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	1062953	0.9772	Target=2.42	97.7	480	
413.00 > 169.00	3.519	3.519	0.0	1.000	419448		2.53(1.21-3.63)	97.7	1295	
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	748644	1.12		93.9	2142	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	620382	0.9198	Target=5.78	99.1	805	M
499.00 > 99.00	3.836	3.836	0.0	1.000	101943		6.09(2.89-8.66)	99.1	263	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.858	3.858	0.0	1.000	905989	1.00	Target=6.76	99.6	320	
463.00 > 169.00	3.858	3.858	0.0	1.000	142902		6.34(3.38-10.14)	99.6	1347	
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.097	1180302	1.22		97.9	3101	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.992	3.992	0.0	1.041	603248	0.9296		99.7	2553	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	478119	0.9518	Target=2.92	99.1	1671	
549.00 > 99.00	4.126	4.126	0.0	1.076	162117		2.95(1.46-4.38)	99.1	685	
D 23 13C2 PFDA										
515.00 > 470.00	4.148	4.148	0.0	1.179	1054090	1.25		99.7	3951	

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	874615	0.99	Target=8.21	99.1	878	
513.00 > 169.00	4.148	4.148	0.0	1.000	112239		7.79(4.11-12.32)	99.1	891	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.182	155299	1.24		103	828	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.160	0.0	1.000	61051	0.9383		97.9	625	
D 21 13C8 FOSA										
506.00 > 78.00	4.214	4.214	0.0	1.198	1448161	1.21		97.1	3187	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.214	4.214	0.0	1.000	1101127	0.9716		97.2	2088	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.291	4.291	0.0	1.220	68554	1.20		95.8	174	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.003	47019	0.9752		97.5	171	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.380	4.380	0.0	1.142	395111	1.00	Target=2.74	104	2304	
599.00 > 99.00	4.380	4.380	0.0	1.142	137658		2.87(1.37-4.11)	104	1177	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.413	4.413	0.0	1.000	709099	1.08	Target=7.58	108	1255	
563.00 > 169.00	4.413	4.413	0.0	1.000	89338		7.94(3.79-11.36)	108	1308	
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.413	0.0	1.254	831704	1.23		98.1	4412	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.424	0.0	1.257	74280	1.29		103	597	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.424	4.424	0.0	1.000	49661	0.9508		95.1	636	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.505	4.505	0.0	1.175	554657	0.9605		102	2441	
D 36 13C2 PFDaA										
615.00 > 570.00	4.642	4.642	0.0	1.319	894734	1.26		101	2219	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.002	668972	0.9321	Target=5.88	93.2	267	
613.00 > 169.00	4.642	4.653	-0.011	1.000	112537		5.94(2.94-8.82)	93.2	2852	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.672	4.672	0.0	1.123	27096	0.8117		84.2	447	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.822	4.822	0.0	1.257	125092	0.9274	Target=0.46	95.8	1897	
699.00 > 99.00	4.822	4.822	0.0	1.257	283715		0.44(0.23-0.69)	95.8	1976	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.866	4.866	0.0	1.048	571973	0.9884	Target=3.79	98.8	333	
663.00 > 169.00	4.866	4.866	0.0	1.048	143926		3.97(1.89-5.68)	98.8	1478	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.053	0.0	1.436	636062	1.22		98.0	3944	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.053	0.0	1.000	100400	0.9649	Target=1.07	96.5	2511	
713.00 > 219.00	5.053	5.053	0.0	1.000	99327		1.01(0.53-1.60)	96.5	2668	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.406	5.406	0.0	1.000	473951	1.01	Target=3.53	101	331	
813.00 > 169.00	5.406	5.406	0.0	1.000	133216		3.56(1.77-5.30)	101	1368	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.406	5.406	0.0	1.536	609743	1.20		95.9	2492	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.747	5.747	0.0	1.063	412073	0.9889	Target=3.39	98.9	401	
913.00 > 169.00	5.747	5.747	0.0	1.063	121542		3.39(1.69-5.08)	98.9	1089	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00024

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL05.d

Injection Date: 20-May-2021 17:20:30

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

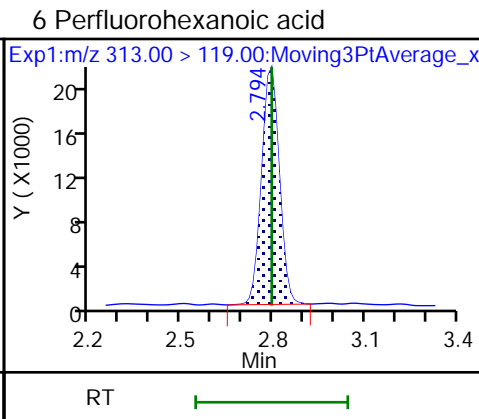
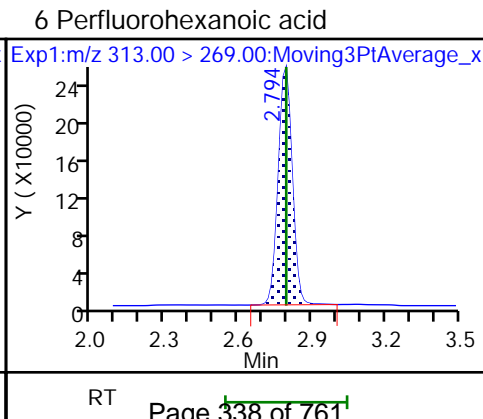
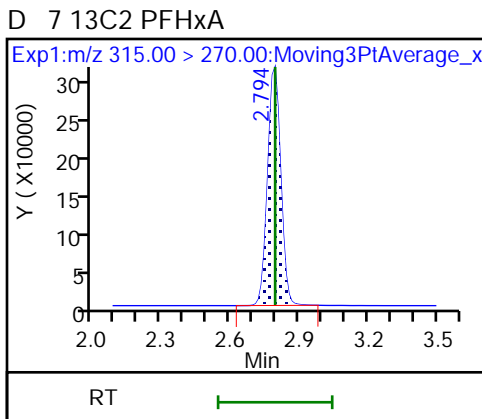
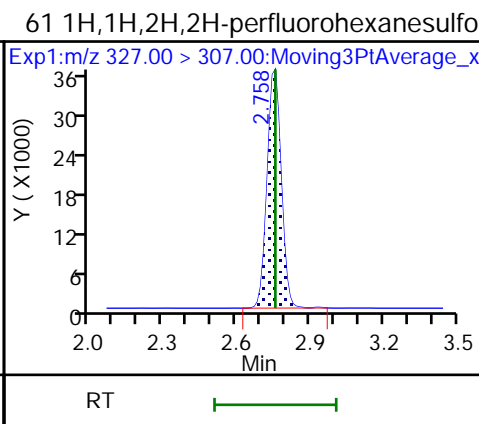
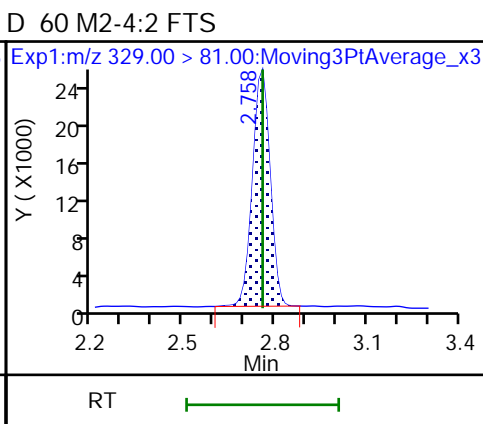
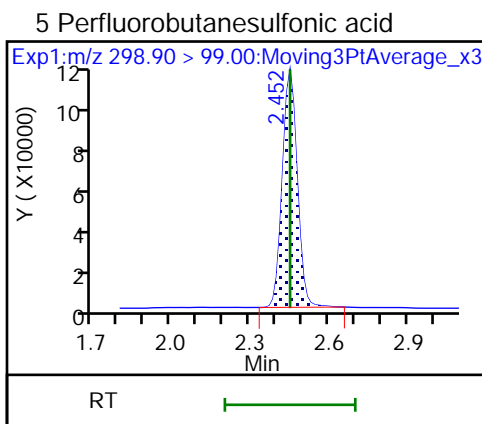
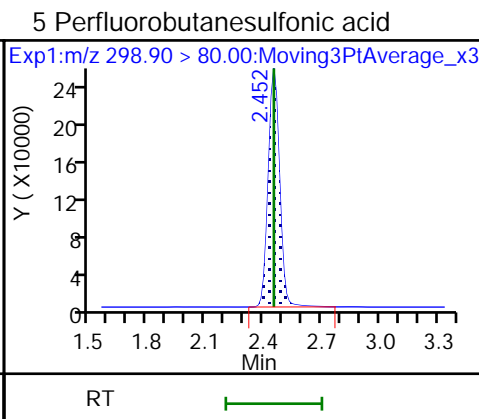
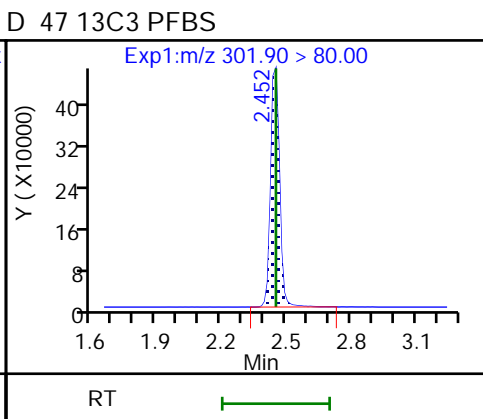
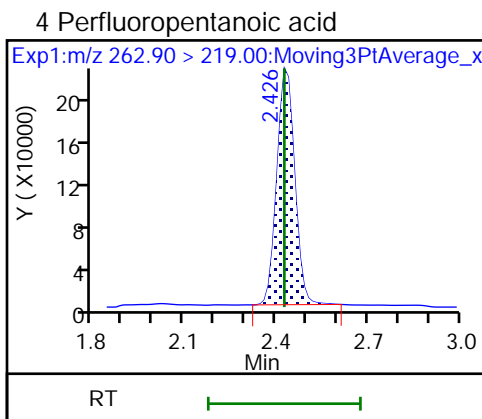
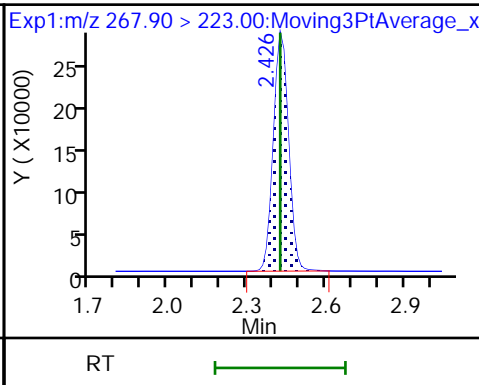
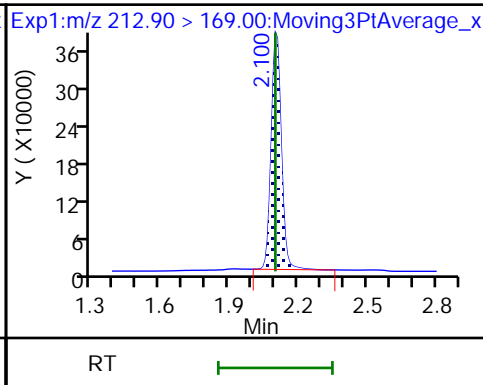
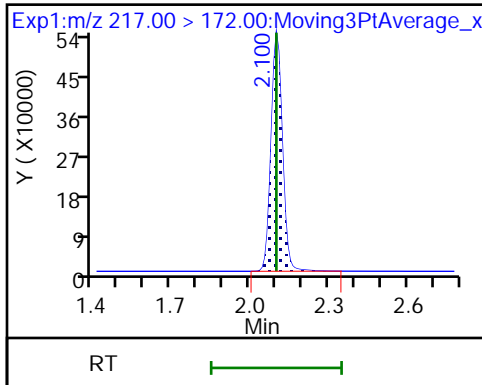
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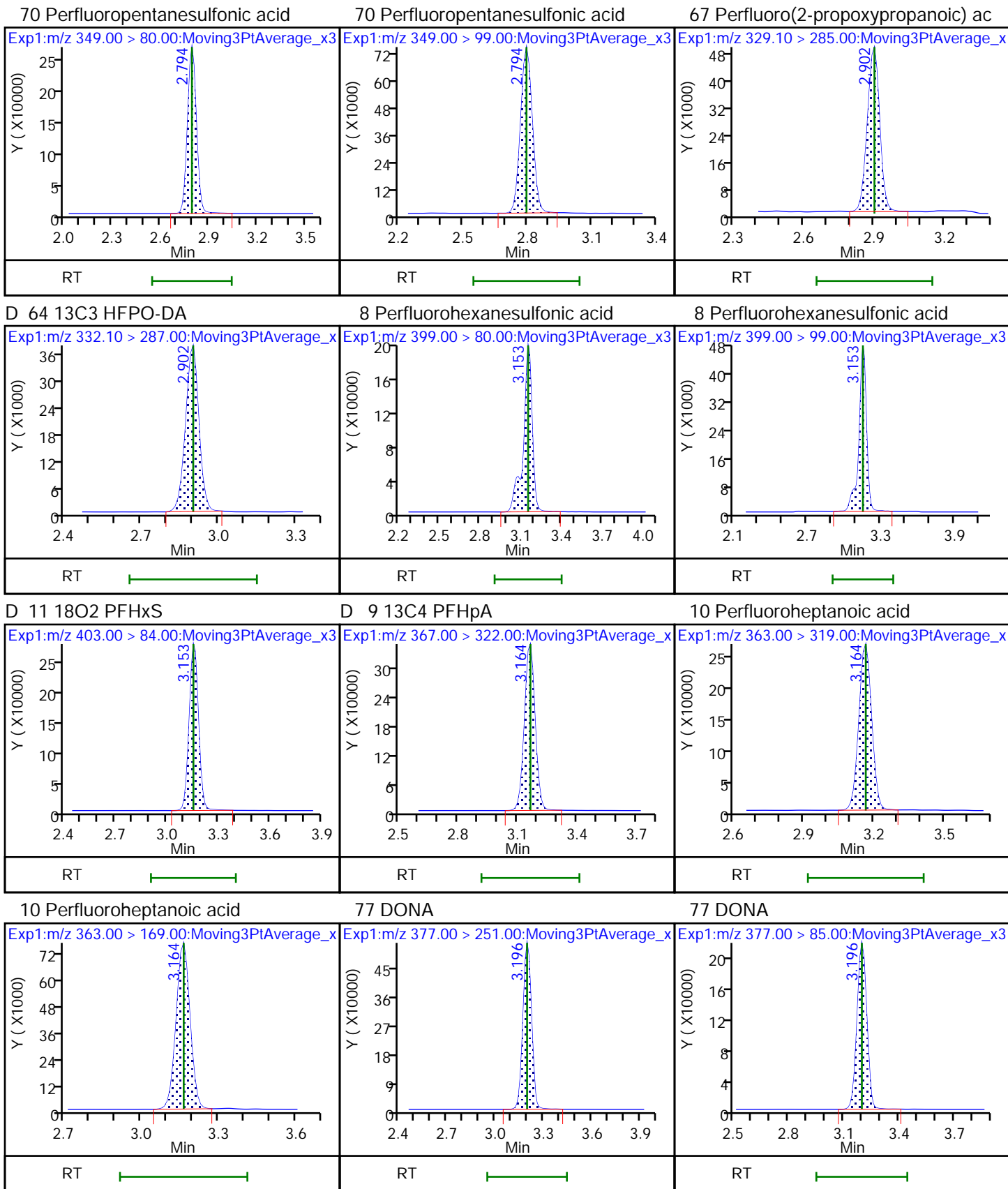
Limit Group: LC_PFC_ICAL

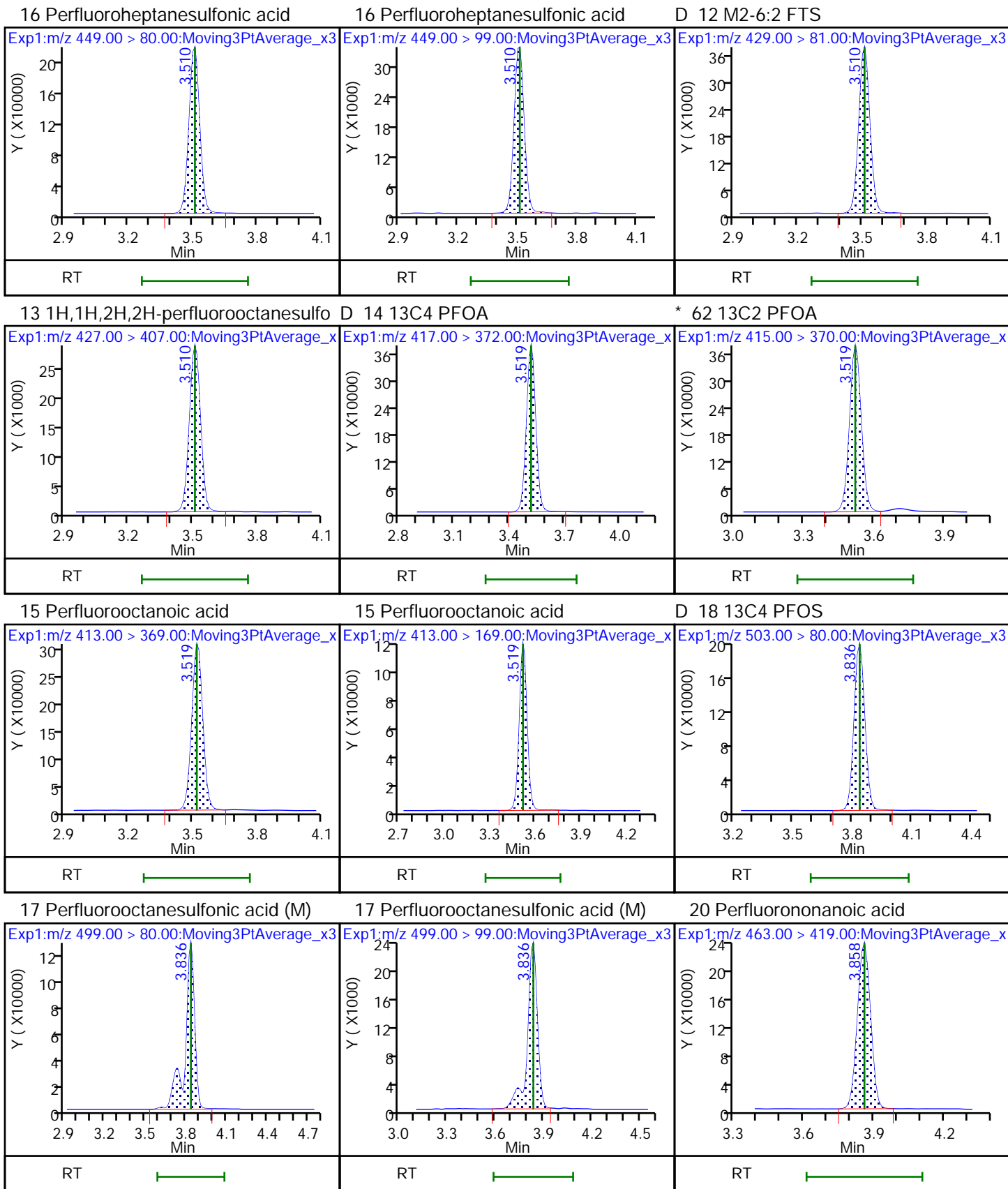
D 1 13C4 PFBA

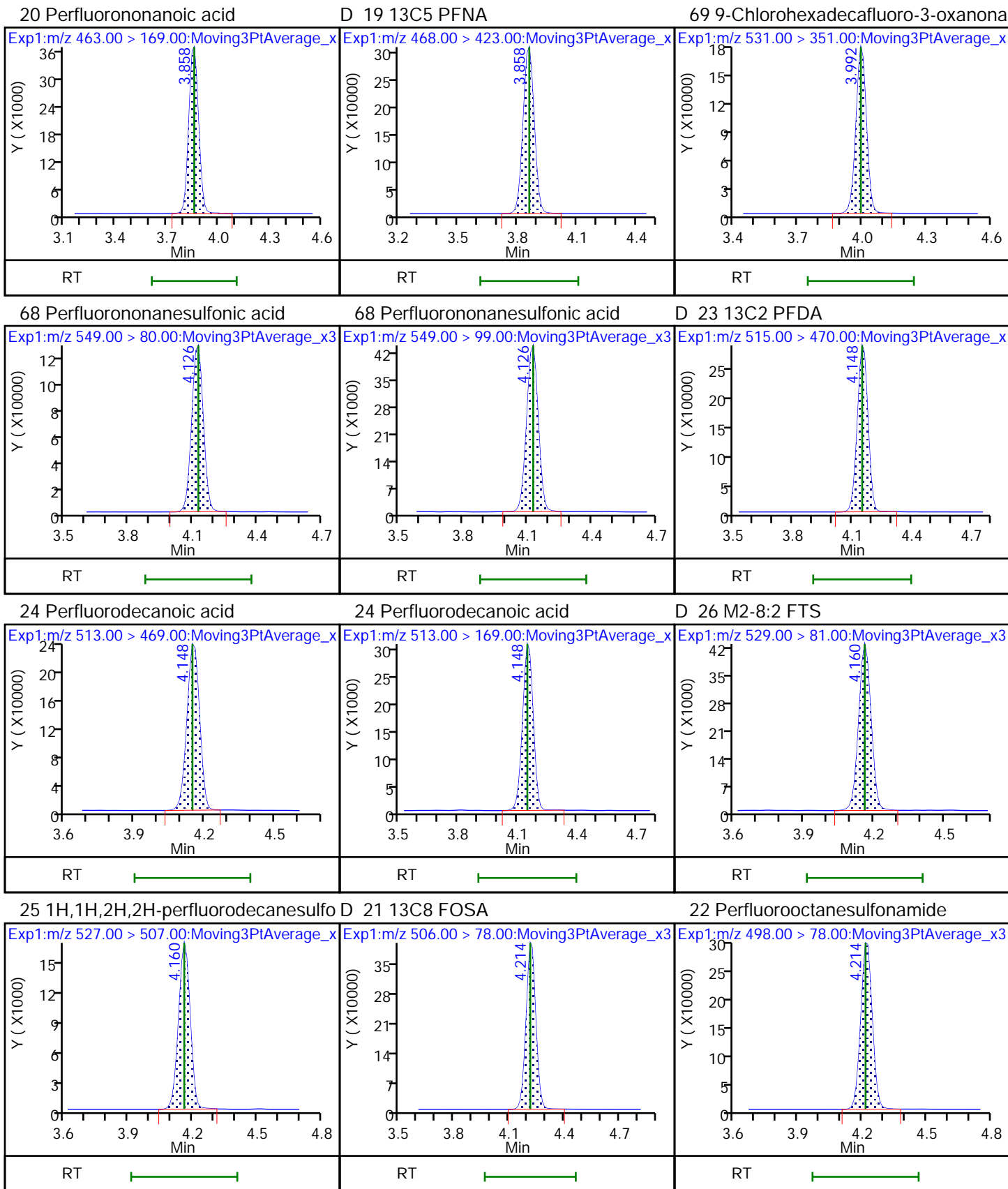
2 Perfluorobutanoic acid

D 3 13C5 PFPeA



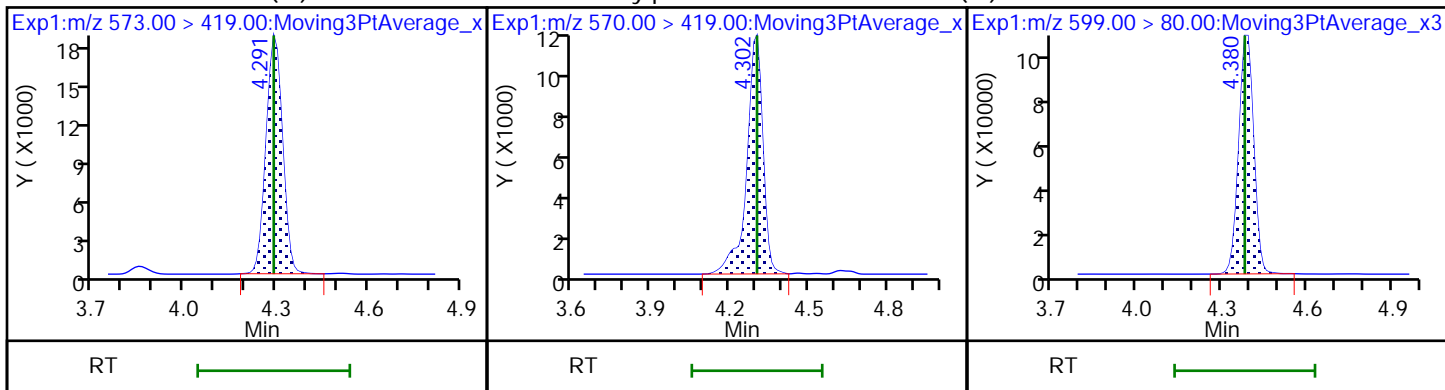






D 27 d3-NMeFOSAA (M)

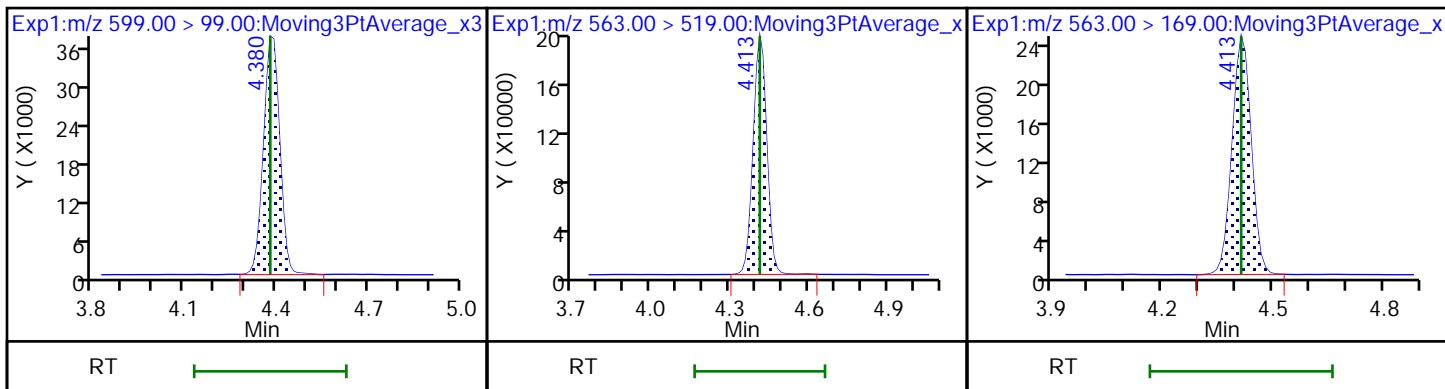
28 N-methylperfluorooctanesulfonami (M)
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

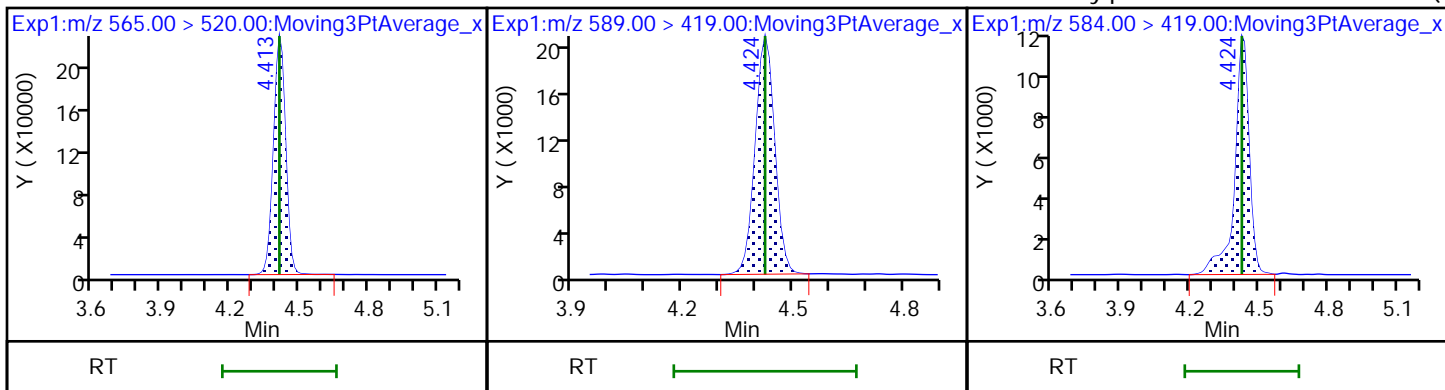
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

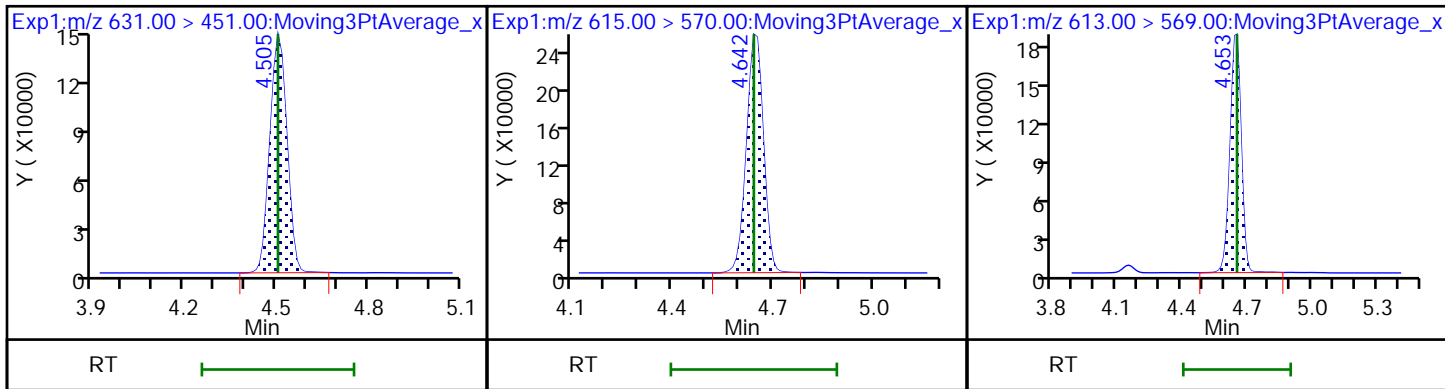
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

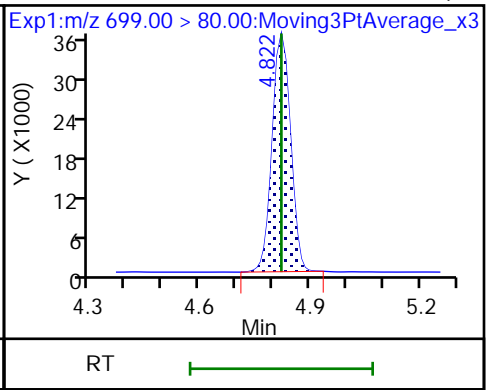
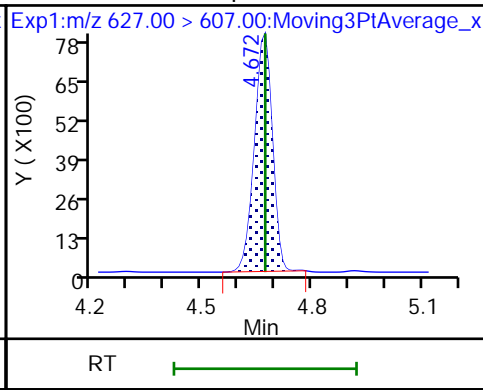
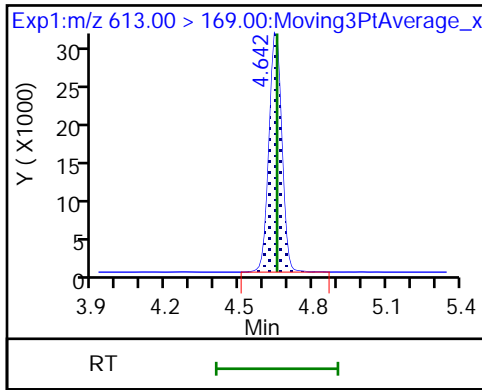
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

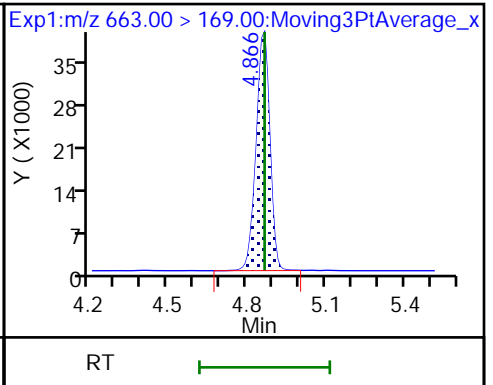
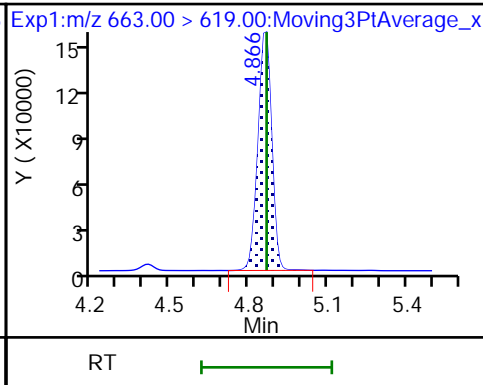
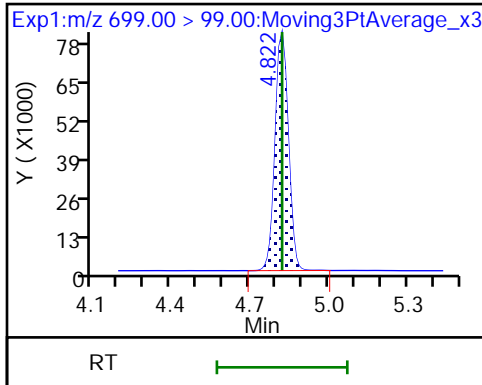
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

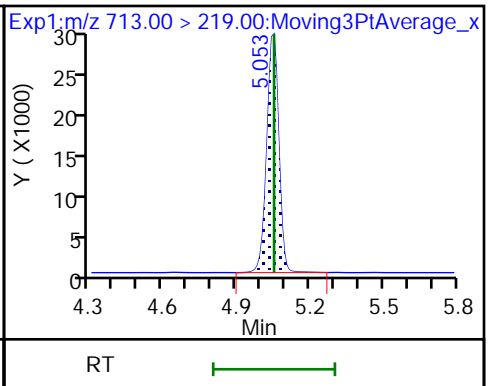
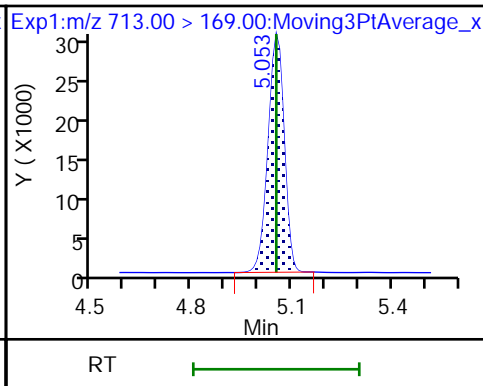
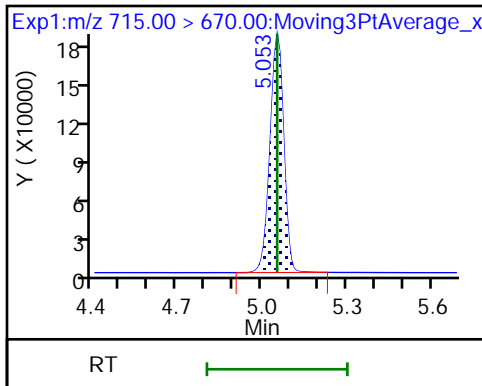
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

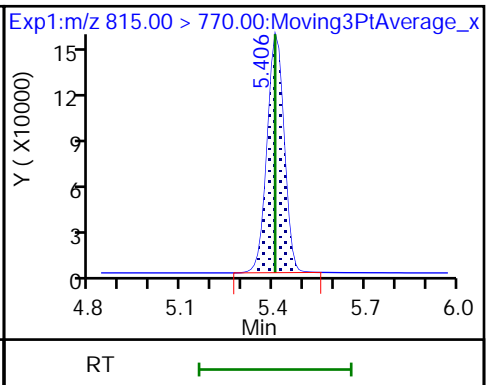
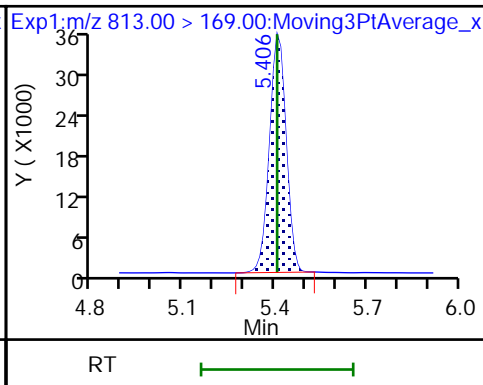
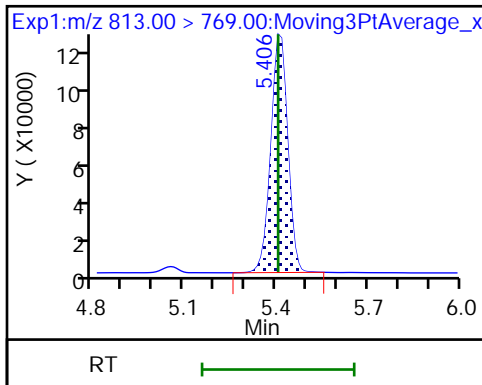
42 Perfluorotetradecanoic acid



45 Perfluorohexadecanoic acid

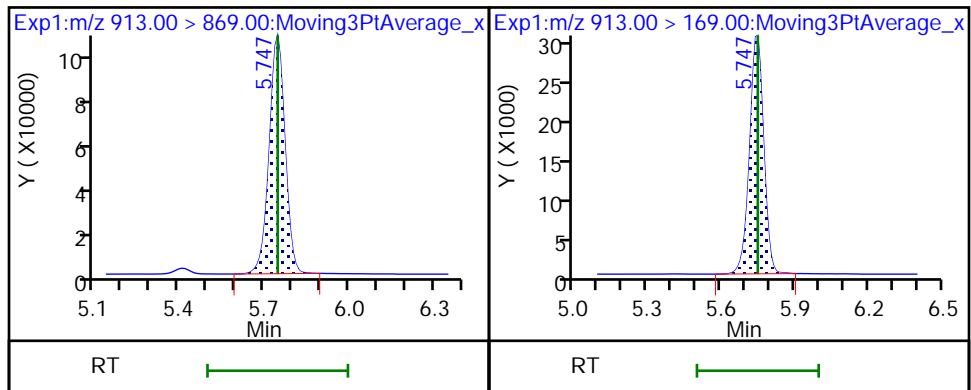
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Euofins TestAmerica, Burlington

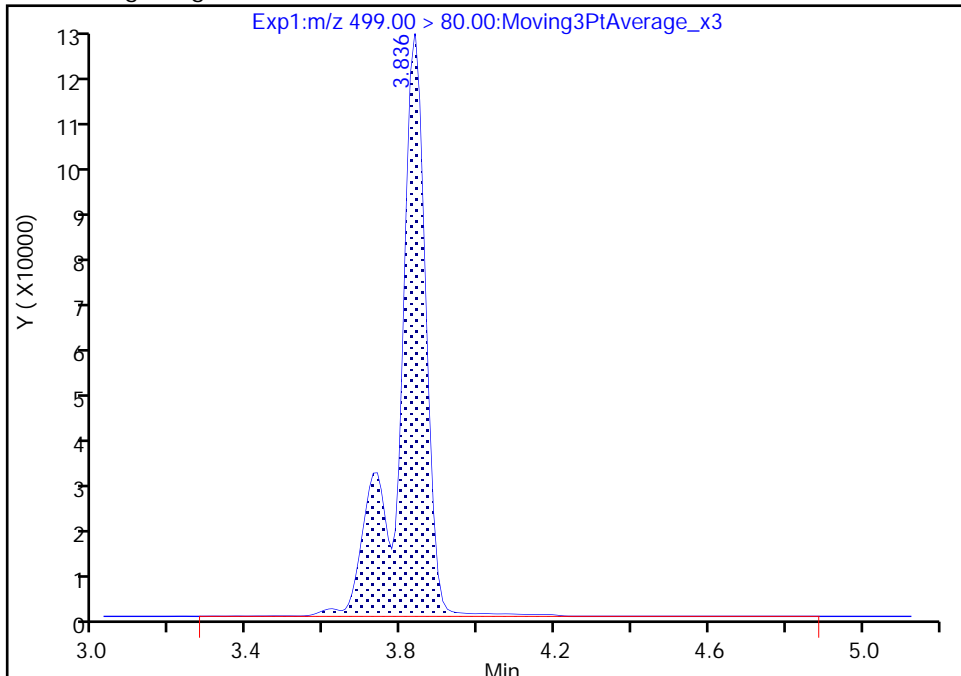
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Injection Date: 20-May-2021 17:20:30 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

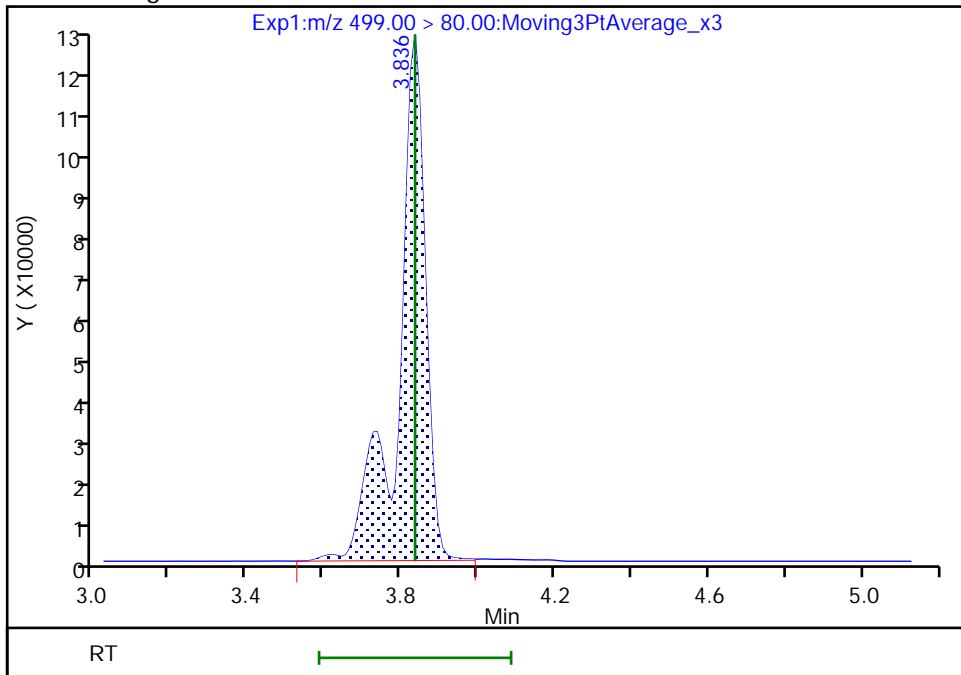
RT: 3.84
Area: 629806
Amount: 0.914155
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 620382
Amount: 0.919784
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

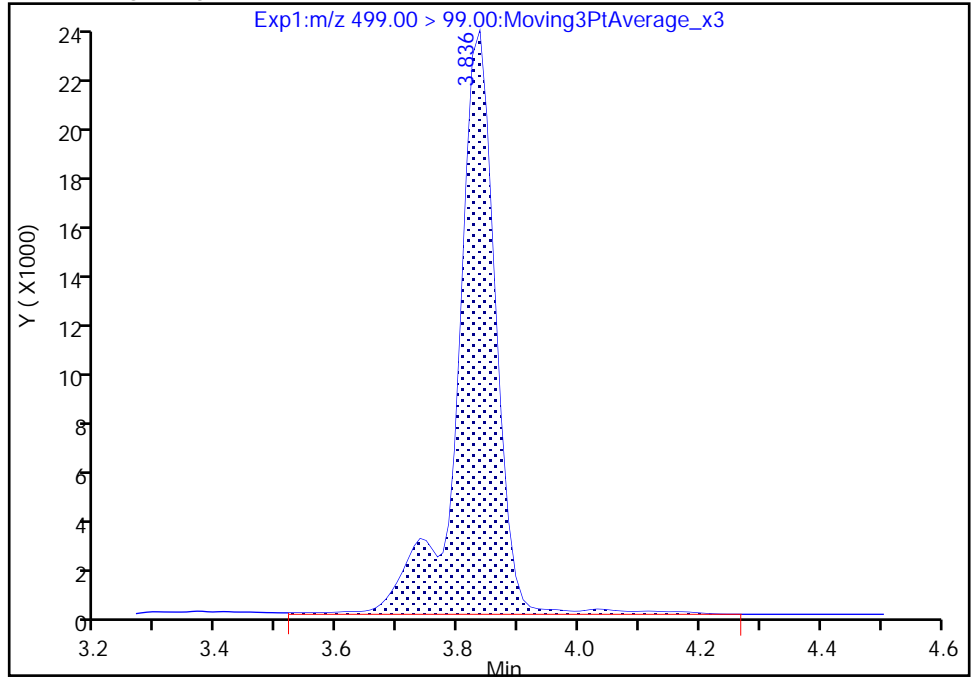
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Injection Date: 20-May-2021 17:20:30 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

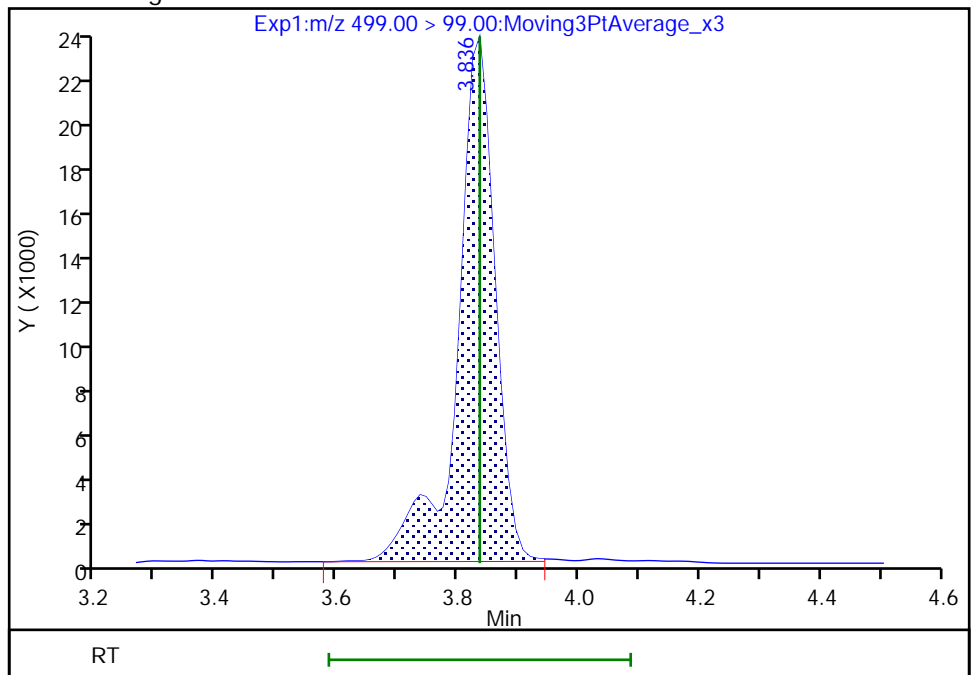
RT: 3.84
Area: 105769
Amount: 0.914155
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 101943
Amount: 0.919784
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:33:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

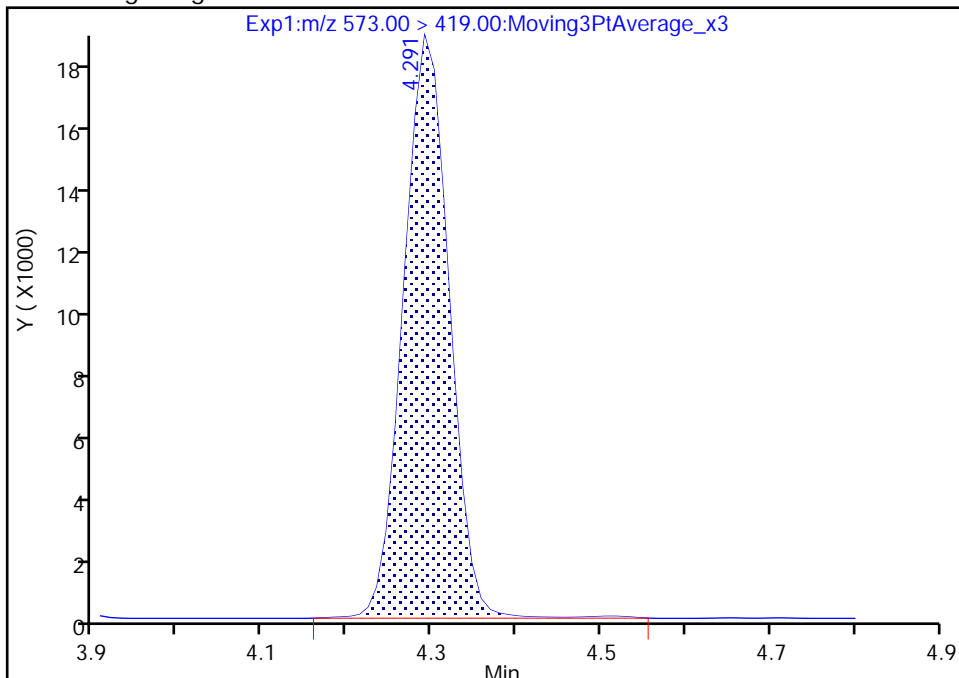
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Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

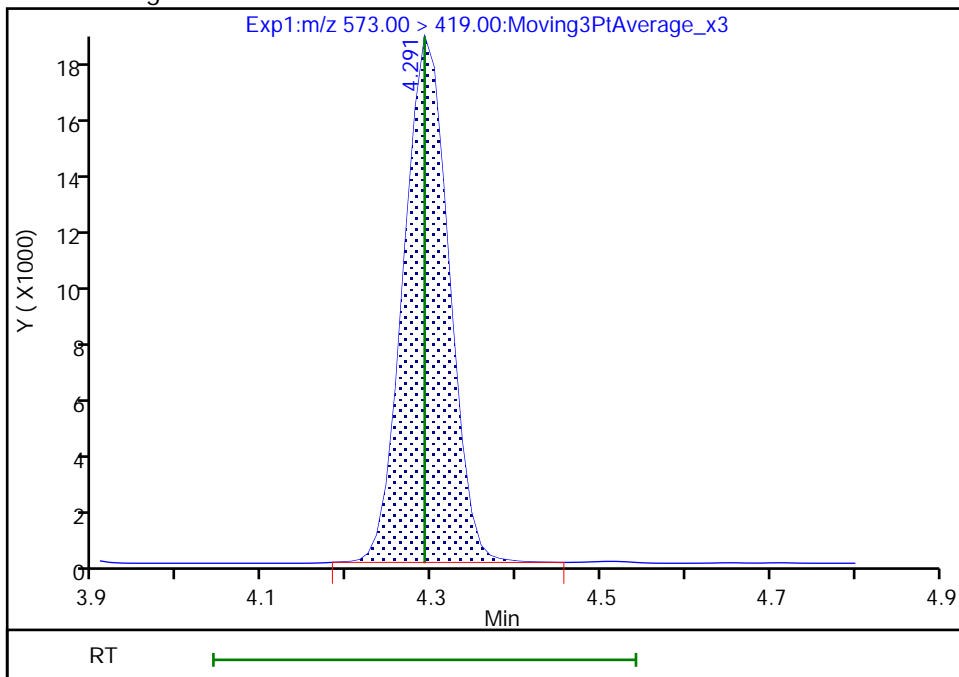
RT: 4.29
Area: 69176
Amount: 1.257281
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 68554
Amount: 1.198090
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

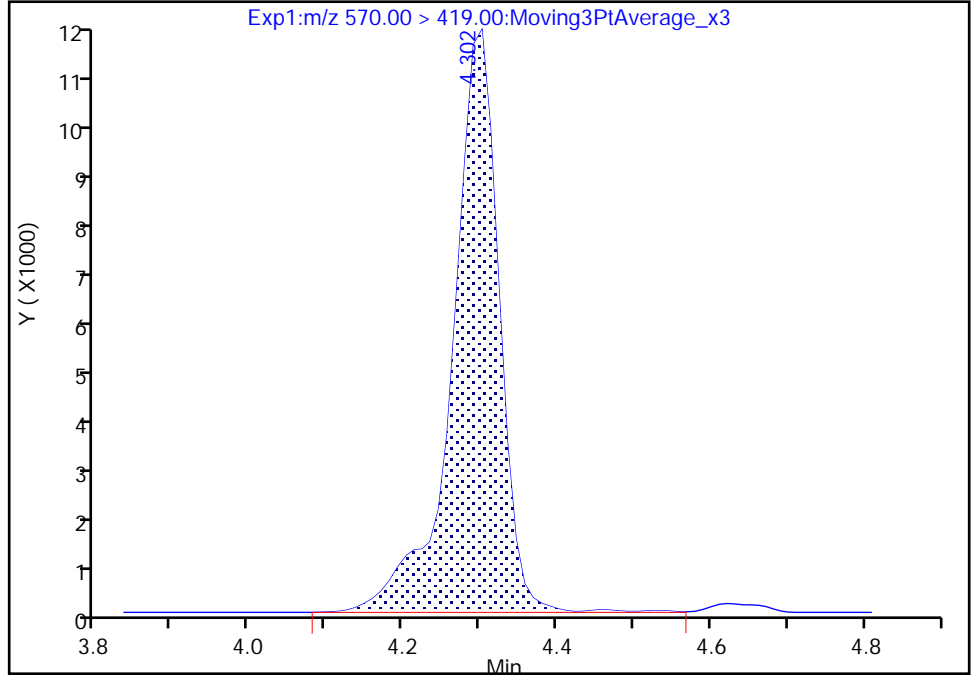
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Injection Date: 20-May-2021 17:20:30 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

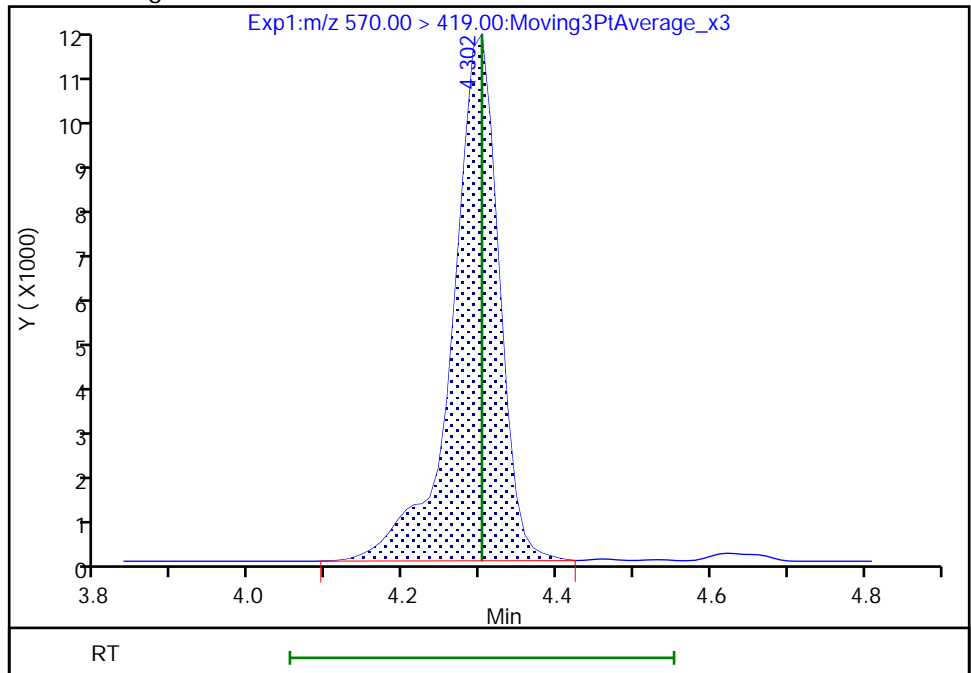
RT: 4.30
Area: 47419
Amount: 0.954277
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 47019
Amount: 0.975245
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:33:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

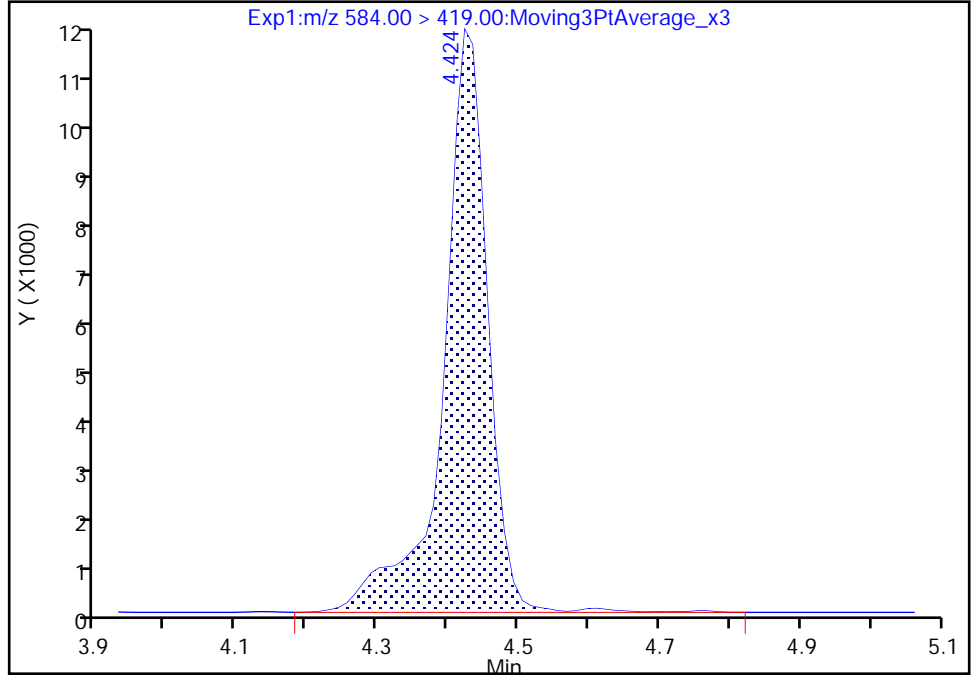
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Injection Date: 20-May-2021 17:20:30 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

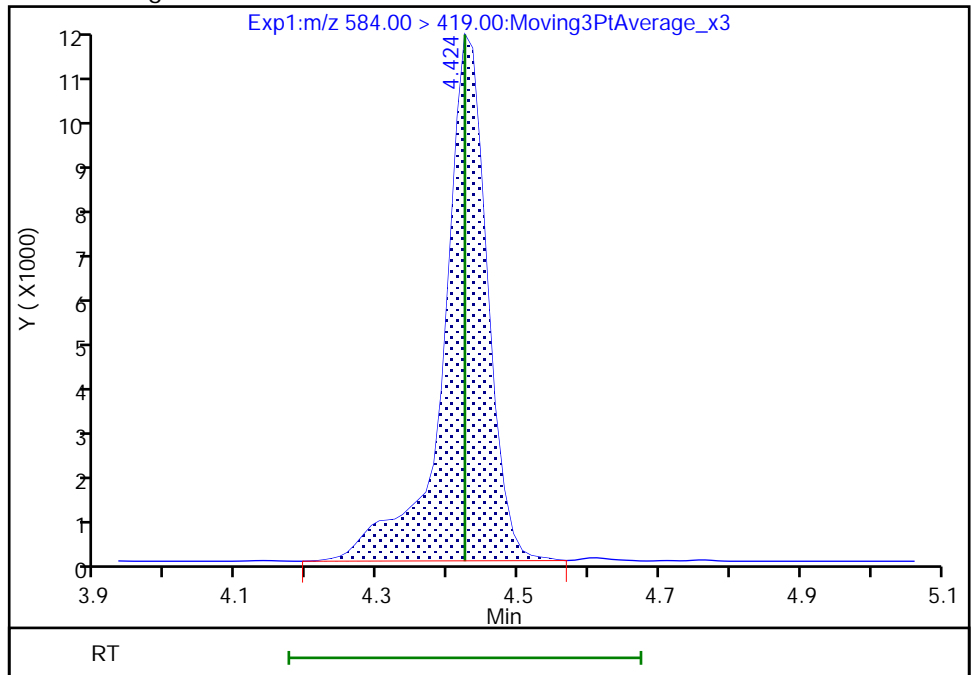
RT: 4.42
Area: 50183
Amount: 1.026903
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 49661
Amount: 0.950756
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:33:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL06.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 20-May-2021 17:28:48 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0046072-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-May-2021 18:23:47 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1654

First Level Reviewer: chirgwinb Date: 20-May-2021 17:42:48

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	2.100	0.0	0.597	1635314	1.23	98.3	10205	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.100	0.009	1.004	2961201	2.42		96.8	715	M
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1171244	1.21	96.9	3746	
4 Perfluoropentanoic acid	262.90 > 219.00	2.439	2.426	0.013	1.005	2257381	2.38	95.3	275	
D 47 13C3 PFBS	301.90 > 80.00	2.452	2.452	0.0	0.697	1361279	1.13	96.9	271292	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.452	2.452	0.0	1.000	2584601	2.14	Target=2.17	96.9	5024
298.90 > 99.00	2.452	2.452	0.0	1.000	1237494		2.09(1.08-3.25)	96.9	891	
D 60 M2-4:2 FTS	329.00 > 81.00	2.758	2.758	0.0	0.784	102671	1.09	93.8	164	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.758	2.758	0.0	1.000	363495	2.37	102	3710	
D 7 13C2 PFHxA	315.00 > 270.00	2.794	2.794	0.0	0.794	1295153	1.23	98.7	3916	
6 Perfluorohexanoic acid	313.00 > 269.00	2.794	2.794	0.0	1.000	2528557	2.41	Target=12.10	96.4	758
313.00 > 119.00	2.794	2.794	0.0	1.000	205788		12.29(6.05-18.15)	96.4	544	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.794	2.794	0.0	0.886	2490344	2.27	Target=3.51	96.8	11583
349.00 > 99.00	2.794	2.794	0.0	0.886	734415		3.39(1.75-5.26)	96.8	954	
67 Perfluoro(2-propoxypropanoic) ac	329.10 > 285.00	2.902	2.902	0.0	1.000	454892	2.29		91.6	202

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	0.825	150007	1.29		103	1743	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.153	0.001	1.000	2166069	2.17	Target=4.34	95.3	2959	
399.00 > 99.00	3.154	3.153	0.001	1.000	505805		4.28(2.17-6.50)	95.3	616	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.153	0.001	0.896	1065678	1.14		96.1	2196	
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.164	0.0	0.899	1267167	1.21		96.6	3779	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.164	3.164	0.0	1.000	2602210	2.54	Target=3.57	102	1109	
363.00 > 169.00	3.164	3.164	0.0	1.000	703847		3.70(1.78-5.35)	102	1621	
77 DONA										
377.00 > 251.00	3.196	3.196	0.0	0.833	4827496	2.34	Target=2.42	99.3	4996	
377.00 > 85.00	3.196	3.196	0.0	0.833	2000404		2.41(1.21-3.62)	99.3	2524	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.510	3.510	0.0	0.915	1904271	2.33	Target=6.39	98.0	6649	
449.00 > 99.00	3.510	3.510	0.0	0.915	303465		6.28(3.19-9.58)	98.0	931	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	145555	1.17		98.6	603	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	248364	2.26		95.3	2131	
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1321432	1.24		99.5	2319	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1326947	1.25			175	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	2636647	2.43	Target=2.42	97.1	990	
413.00 > 169.00	3.519	3.519	0.0	1.000	1102134		2.39(1.21-3.63)	97.1	2735	
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	785655	1.16		97.1	2592	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	1560486	2.20	Target=5.78	95.0	916	M
499.00 > 99.00	3.836	3.836	0.0	1.000	259502		6.01(2.89-8.66)	95.0	668	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	2244435	2.48	Target=6.76	99.1	758	
463.00 > 169.00	3.859	3.858	0.001	1.000	342017		6.56(3.38-10.14)	99.1	3315	
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.097	1175729	1.20		96.1	4934	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	4.002	3.992	0.010	1.043	1567914	2.30		98.8	4538	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	1251773	2.37	Target=2.92	98.9	5016	
549.00 > 99.00	4.126	4.126	0.0	1.076	418502		2.99(1.46-4.38)	98.9	1333	
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.148	0.012	1.182	1051640	1.22		98.0	4315	

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	2122981	2.41	Target=8.21	96.5	1611	
513.00 > 169.00	4.160	4.148	0.012	1.000	254520		8.34(4.11-12.32)	96.5	1213	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.171	4.160	0.011	1.185	143237	1.12		93.9	763	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.171	4.160	0.011	1.000	151028	2.52		105	1483	
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.214	0.011	1.201	1456144	1.20		96.2	3678	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.214	0.011	1.000	2728814	2.39		95.8	3913	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.302	4.291	0.011	1.223	73582	1.27		101	160	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.000	123538	2.39		95.5	658	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.380	0.011	1.145	999920	2.41	Target=2.74	100	2583	
599.00 > 99.00	4.391	4.380	0.011	1.145	345999		2.89(1.37-4.11)	100	1926	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.413	0.011	1.000	1623844	2.35	Target=7.58	94.1	1798	
563.00 > 169.00	4.424	4.413	0.011	1.000	224676		7.23(3.79-11.36)	94.1	1805	
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.413	0.011	1.257	871893	1.27		101	3072	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.434	4.424	0.010	1.260	72233	1.24		99.2	753	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.434	4.424	0.010	1.000	116555	2.31		92.4	697	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.518	4.505	0.013	1.178	1434846	2.37		101	2100	
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.642	0.011	1.322	916815	1.27		102	4666	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.000	1781438	2.42	Target=5.88	96.9	771	
613.00 > 169.00	4.653	4.653	0.0	1.000	299359		5.95(2.94-8.82)	96.9	3273	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.673	4.672	0.001	1.120	77582	2.52		105	2846	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.834	4.822	0.012	1.260	329199	2.33	Target=0.46	96.1	2076	
699.00 > 99.00	4.834	4.822	0.012	1.260	705737		0.47(0.23-0.69)	96.1	3275	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.867	4.866	0.001	1.046	1457567	2.46	Target=3.79	98.3	791	
663.00 > 169.00	4.867	4.866	0.001	1.046	379462		3.84(1.89-5.68)	98.3	2491	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.063	5.053	0.010	1.439	664584	1.26		101	5098	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.063	5.053	0.010	1.000	267272	2.46	Target=1.07	98.3	2608	
713.00 > 219.00	5.053	5.053	0.0	0.998	241145		1.11(0.53-1.60)	98.3	4406	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.417	5.406	0.011	1.000	1213765	2.48	Target=3.53	99.3	747	
813.00 > 169.00	5.417	5.406	0.011	1.000	325058		3.73(1.77-5.30)	99.3	2947	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.417	5.406	0.011	1.539	637537	1.24		98.8	2730	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.756	5.747	0.009	1.063	1044198	2.40	Target=3.39	95.9	761	
913.00 > 169.00	5.747	5.747	0.0	1.061	312780		3.34(1.69-5.08)	95.9	1531	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00019

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL06.d

Injection Date: 20-May-2021 17:28:48

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

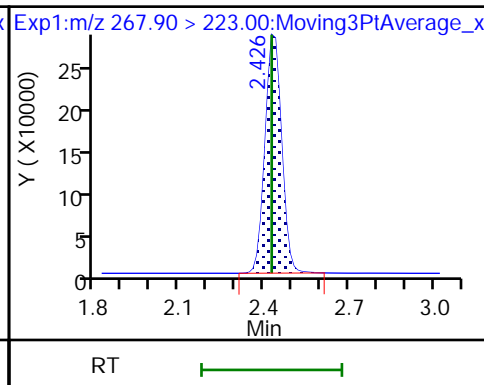
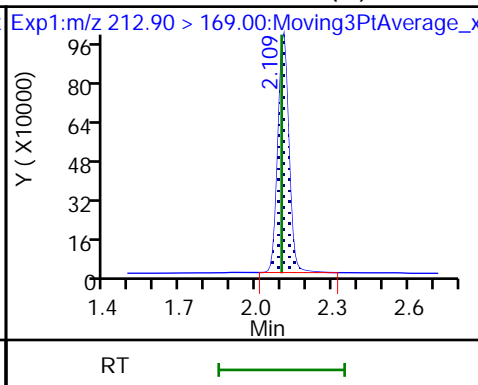
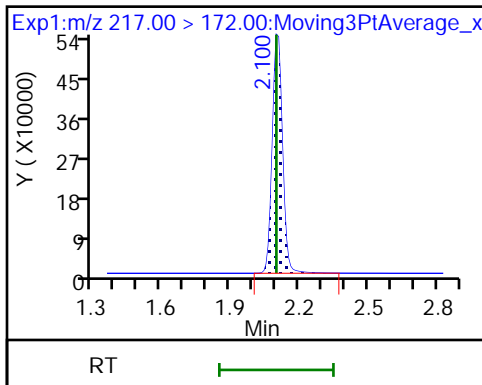
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

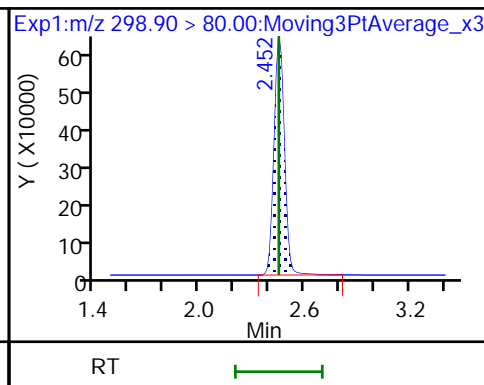
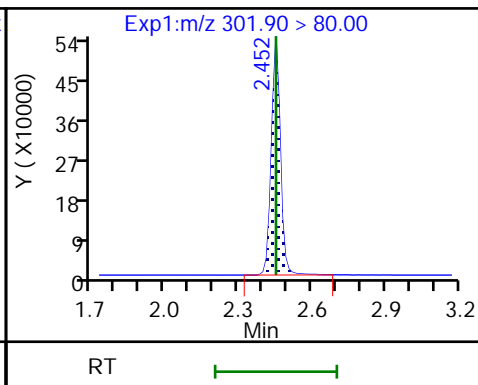
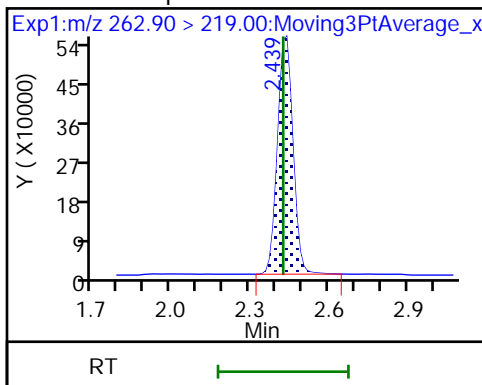
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

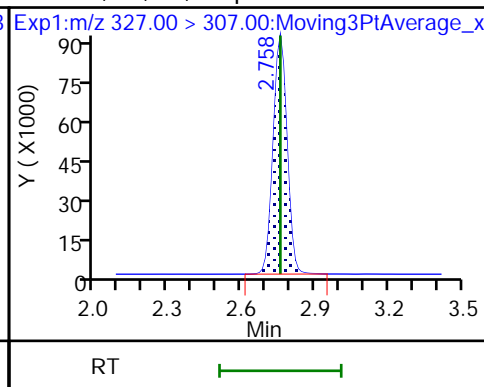
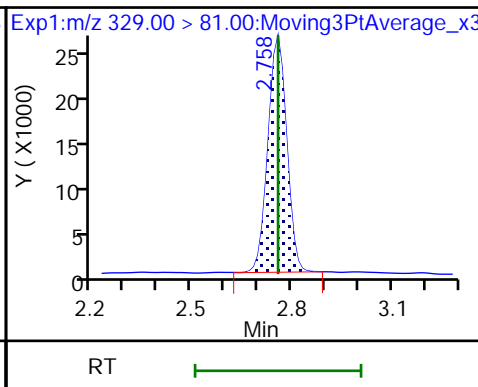
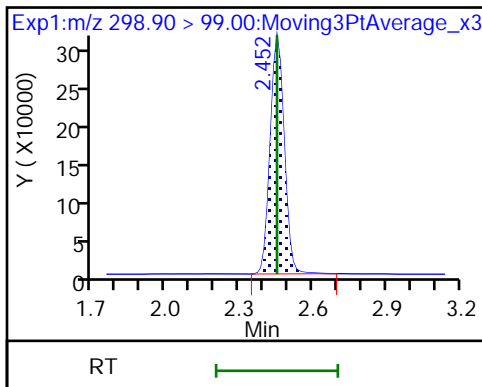
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

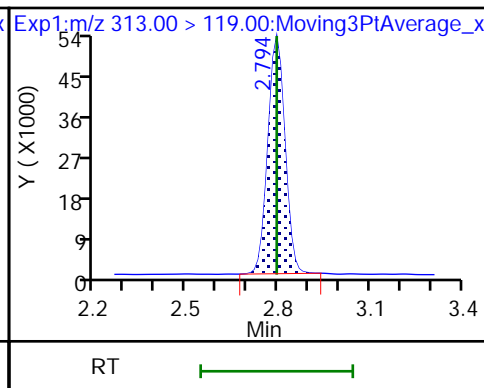
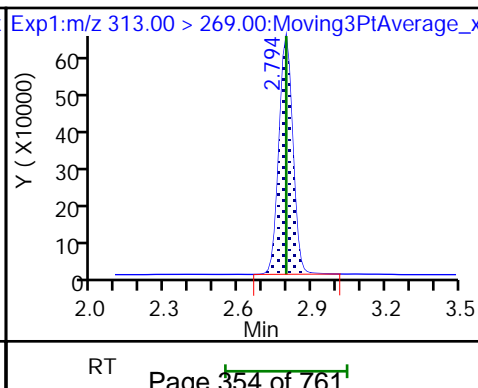
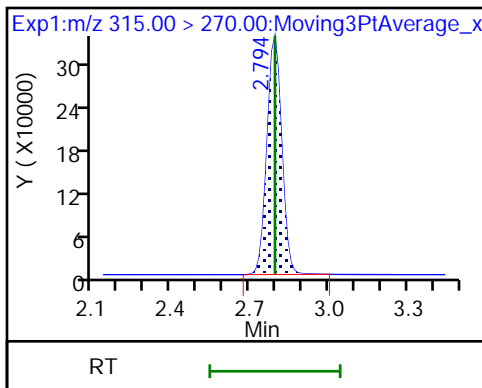
61 1H,1H,2H,2H-perfluorohexanesulfo

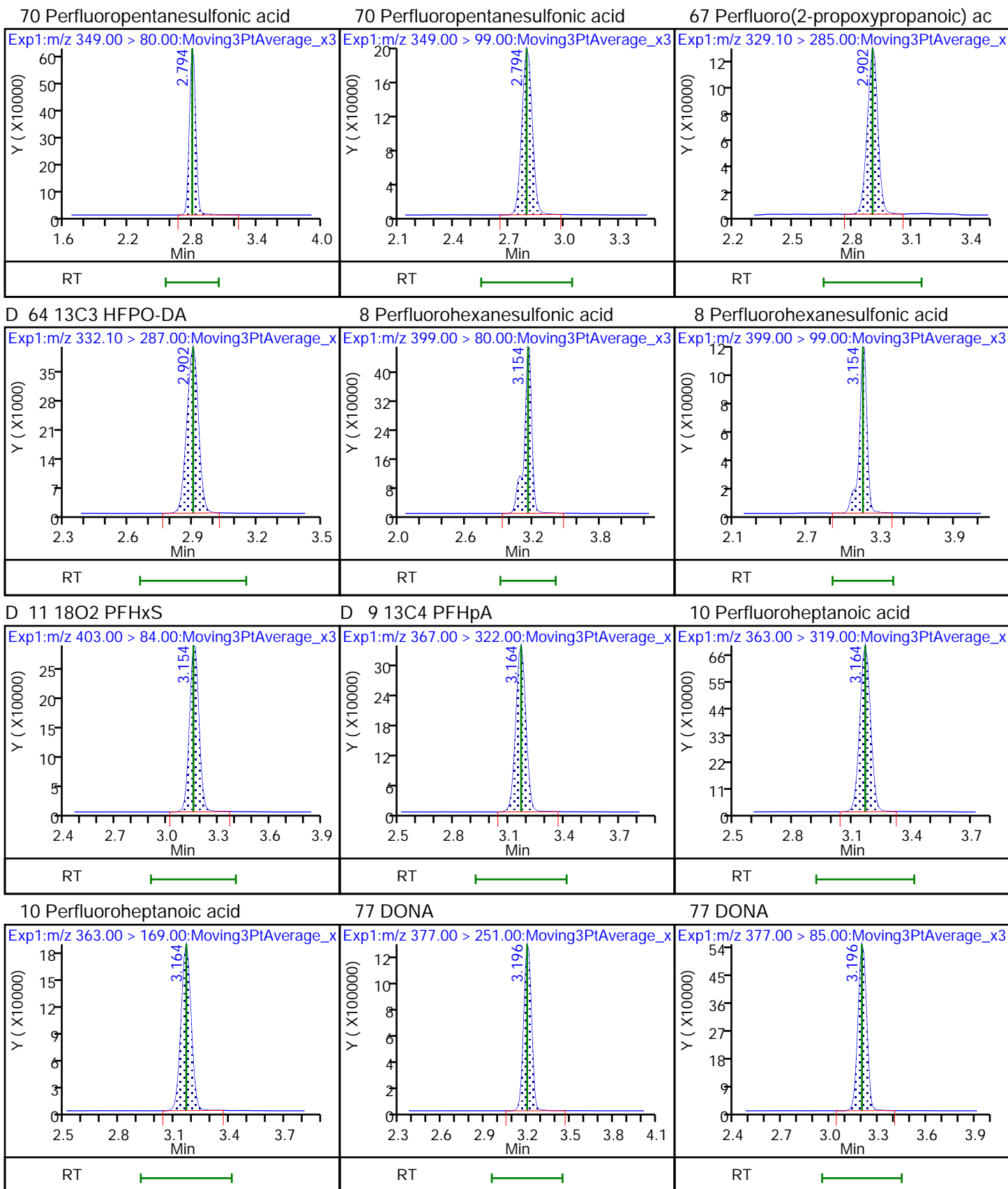


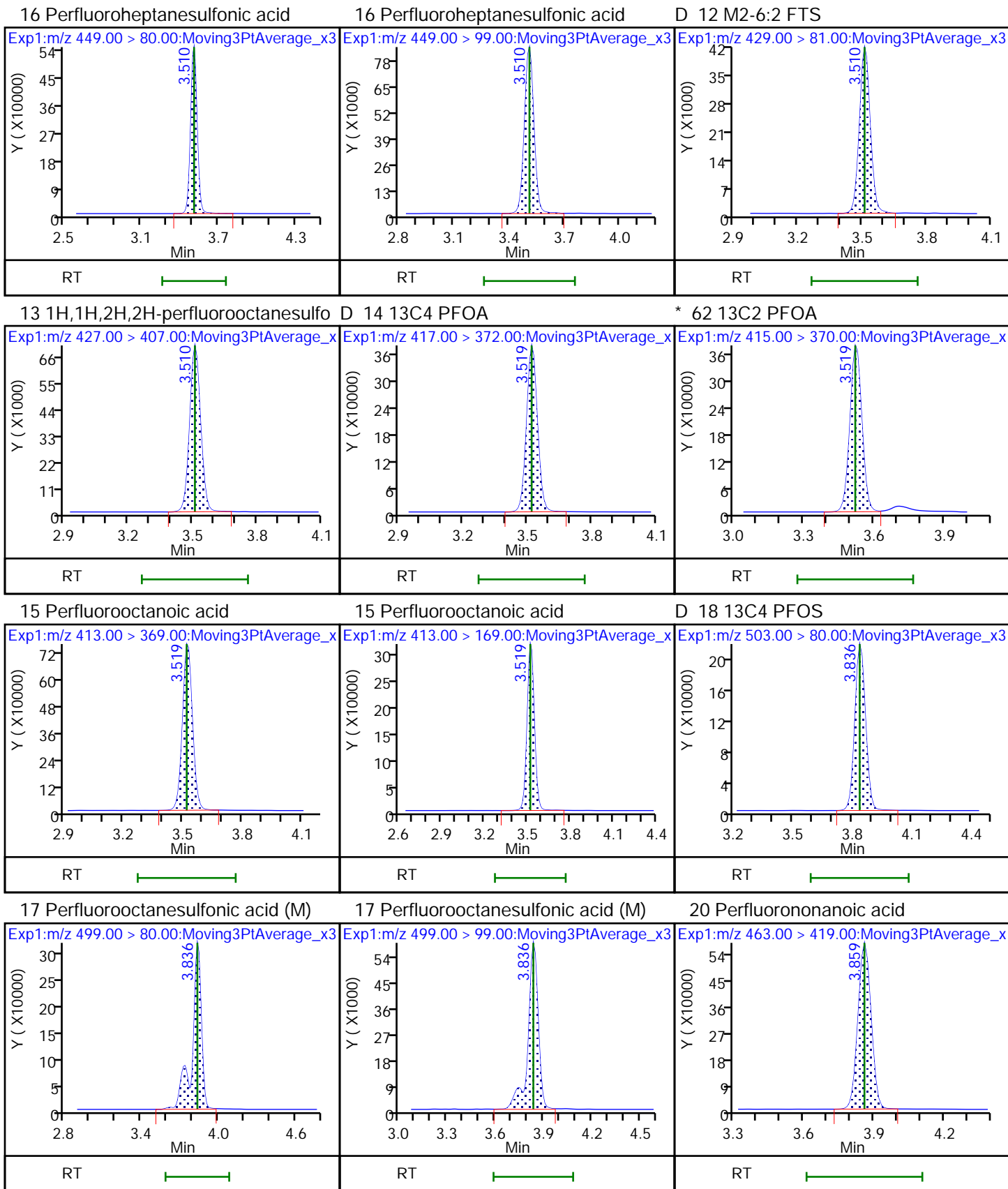
D 7 13C2 PFHxA

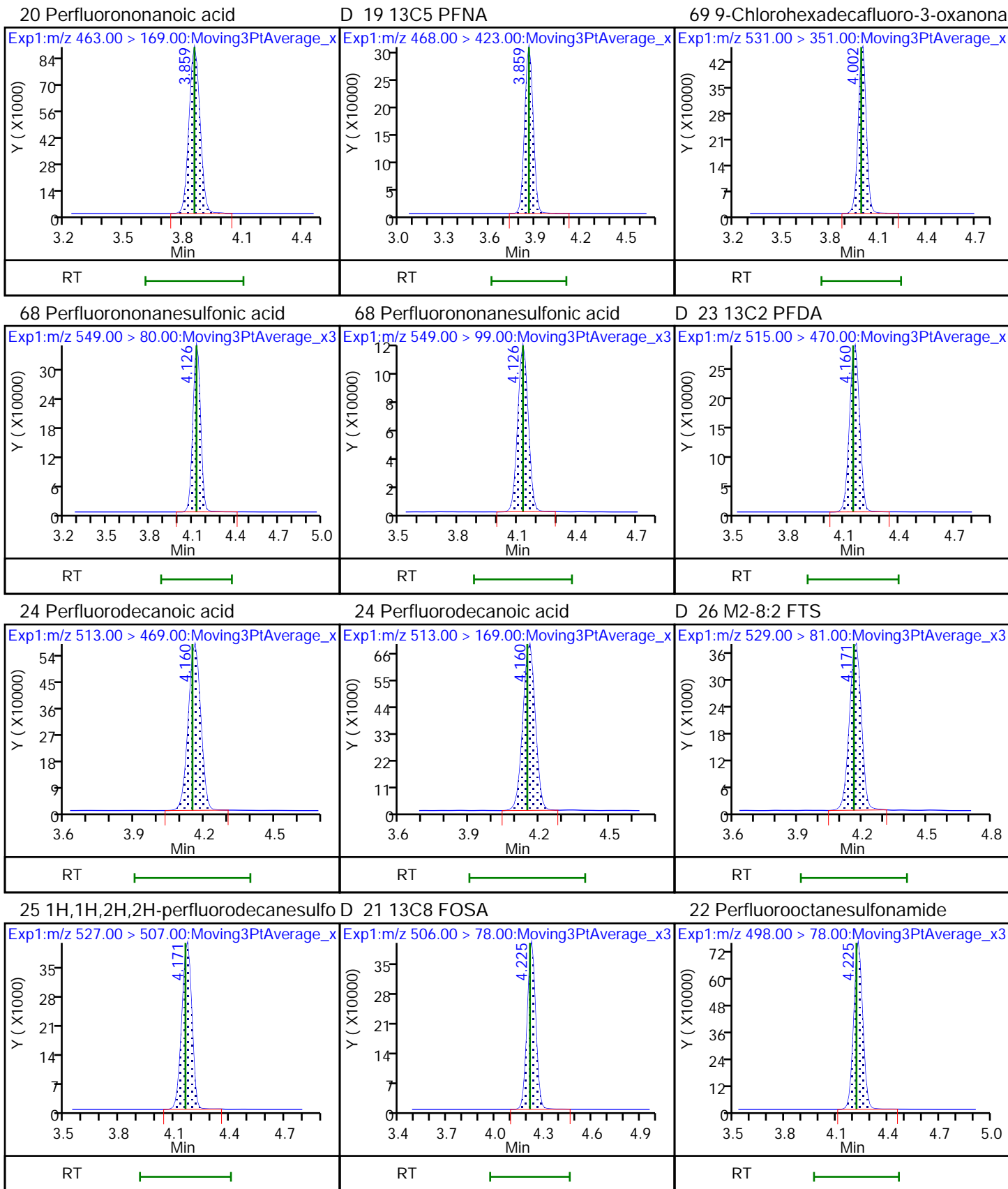
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





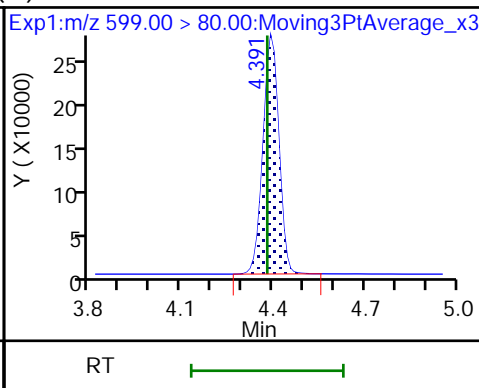
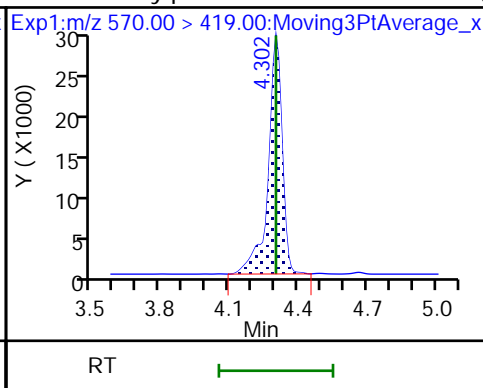
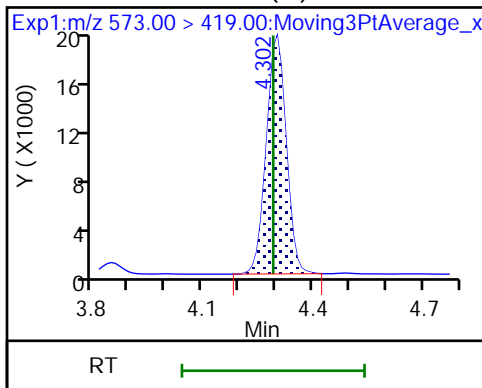




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

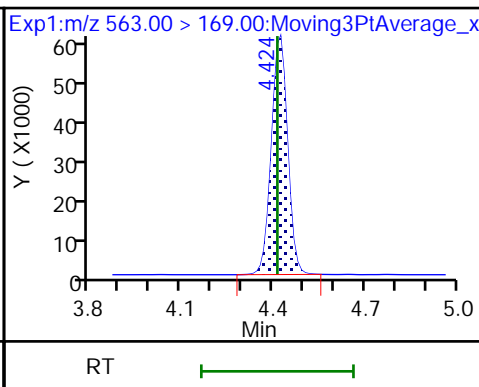
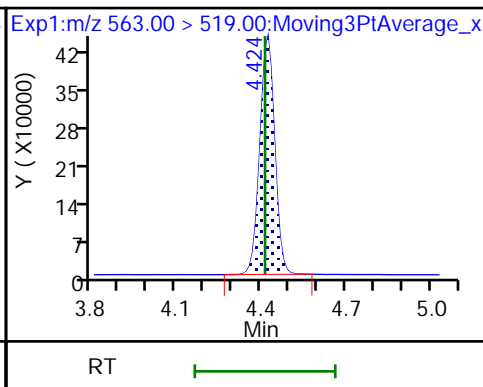
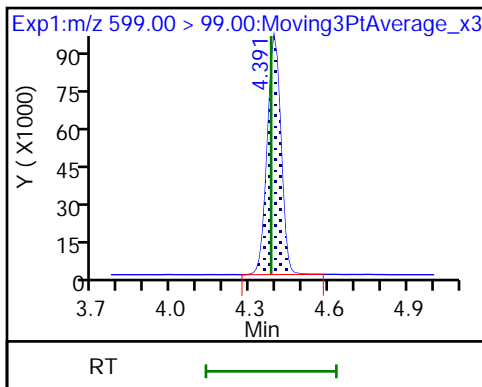
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

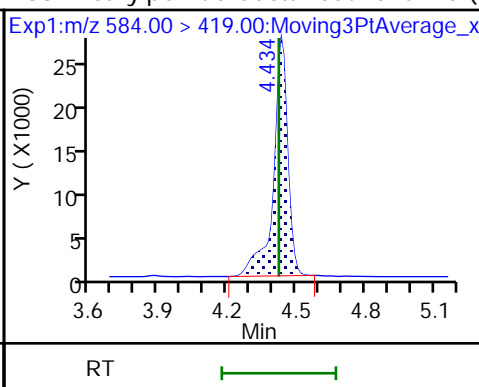
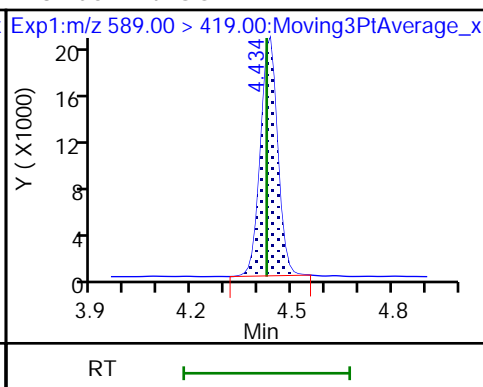
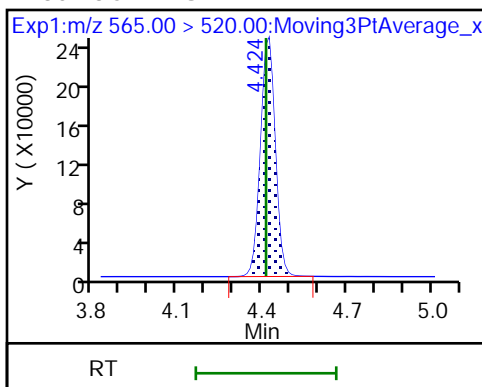
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

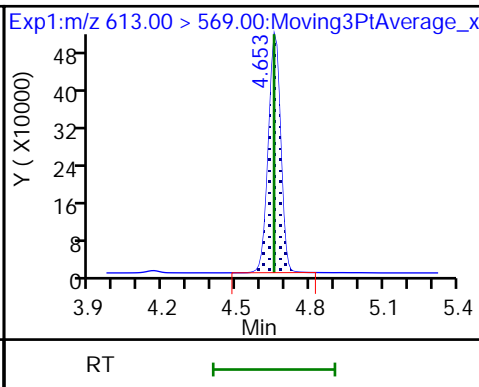
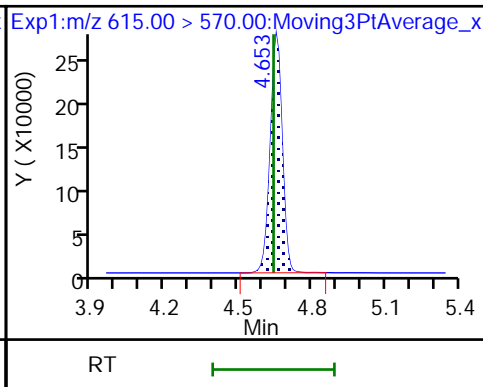
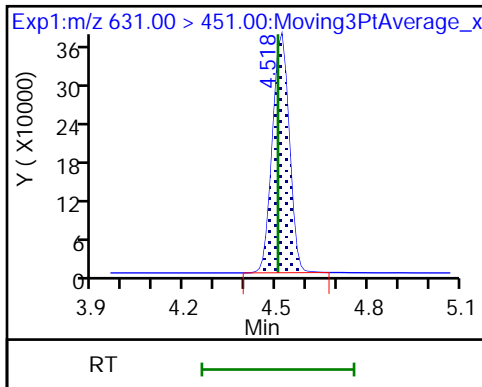
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDaA

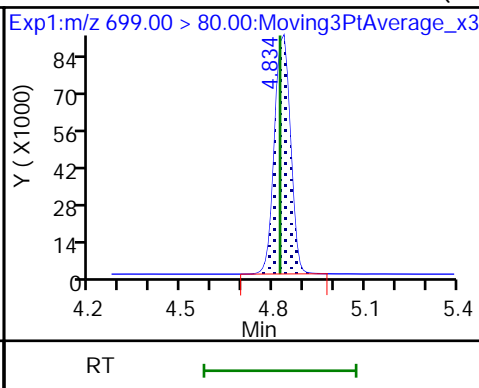
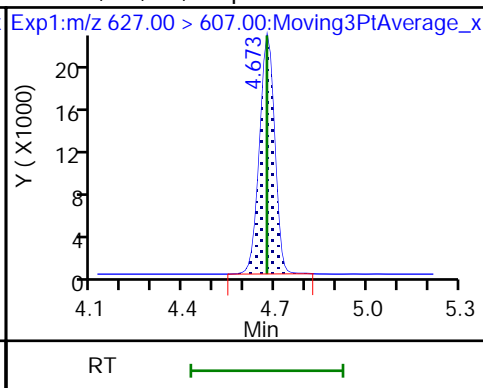
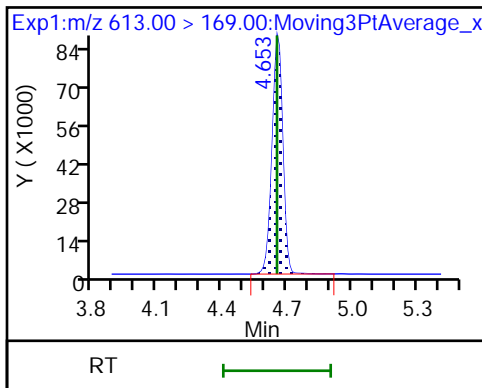
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

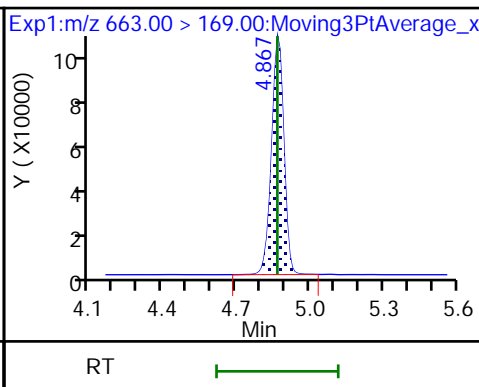
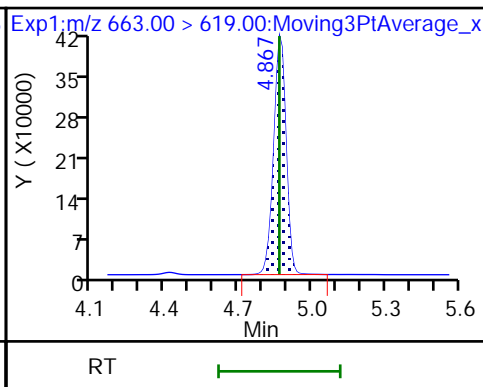
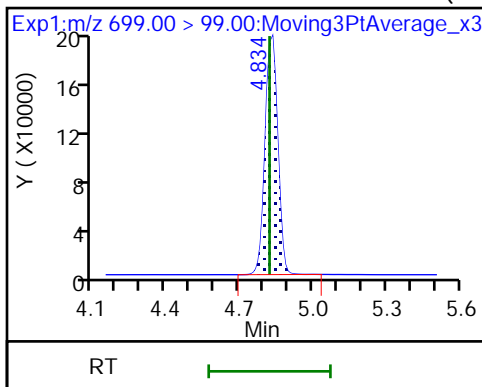
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

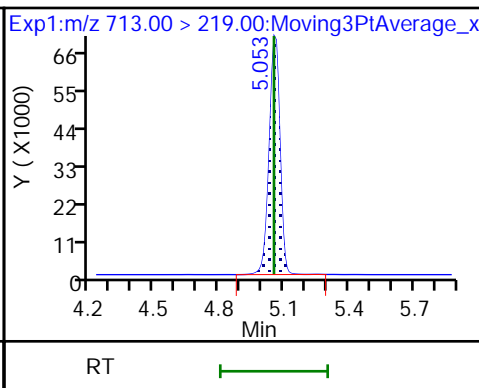
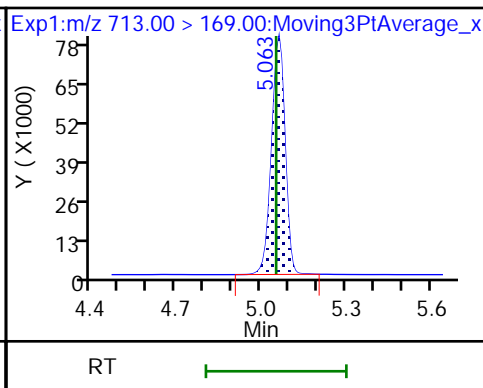
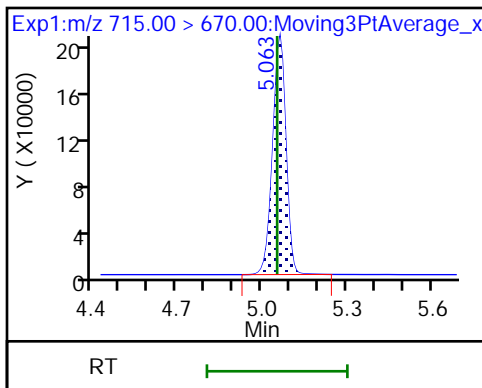
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

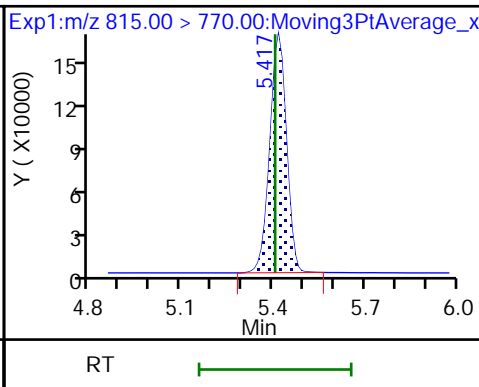
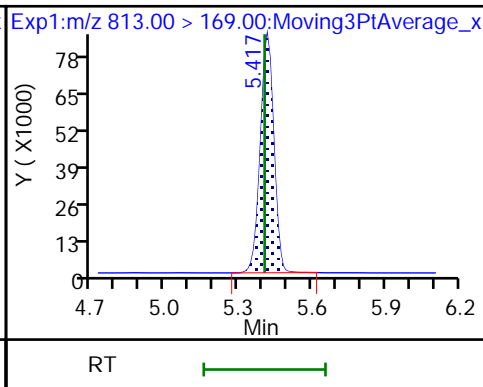
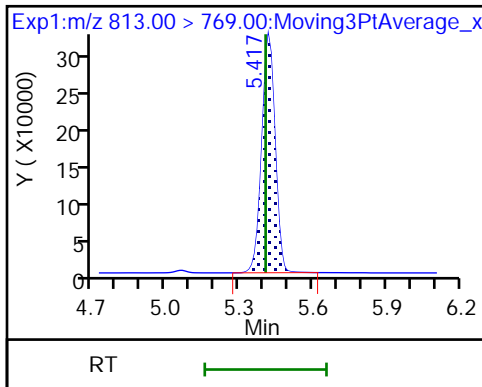
42 Perfluorotetradecanoic acid



45 Perfluorohexadecanoic acid

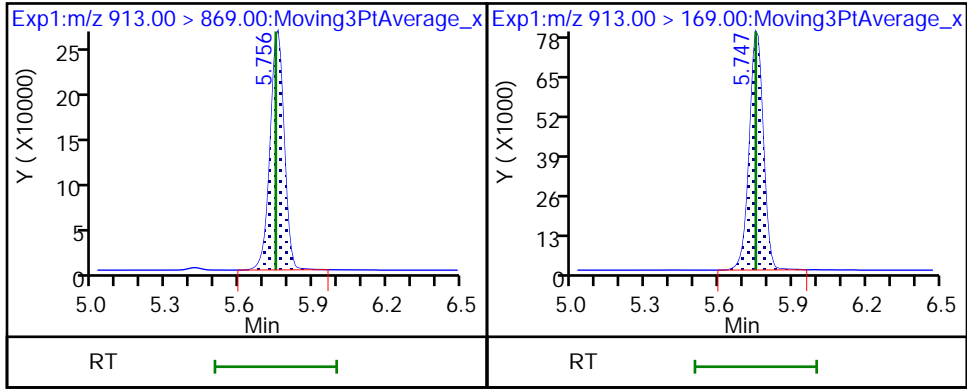
45 Perfluorohexadecanoic acid

D 44 13C2 PFHxDA



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

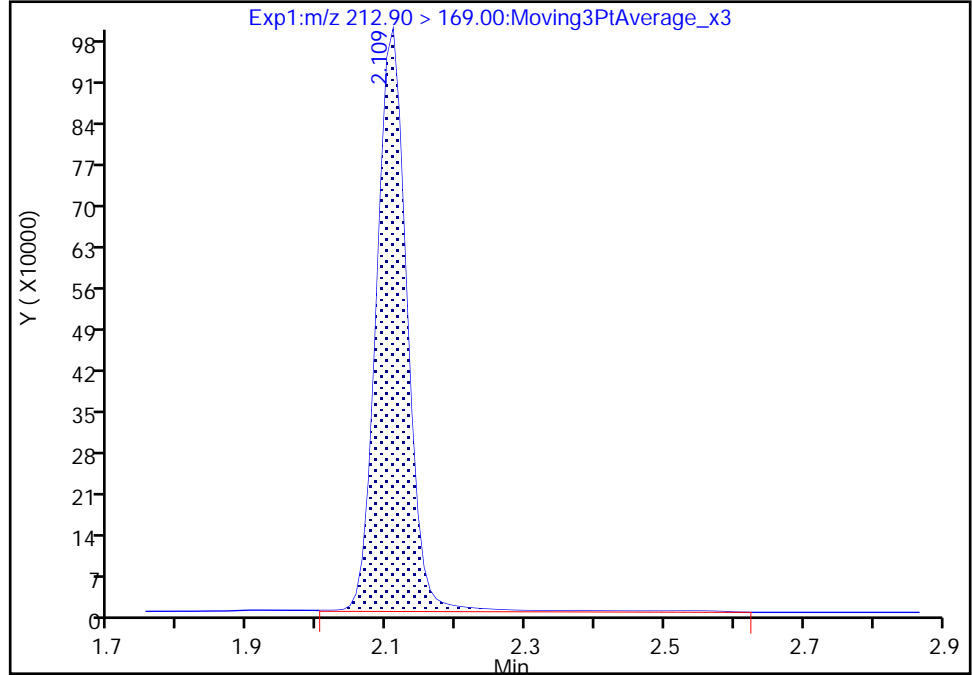
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL06.d
Injection Date: 20-May-2021 17:28:48 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

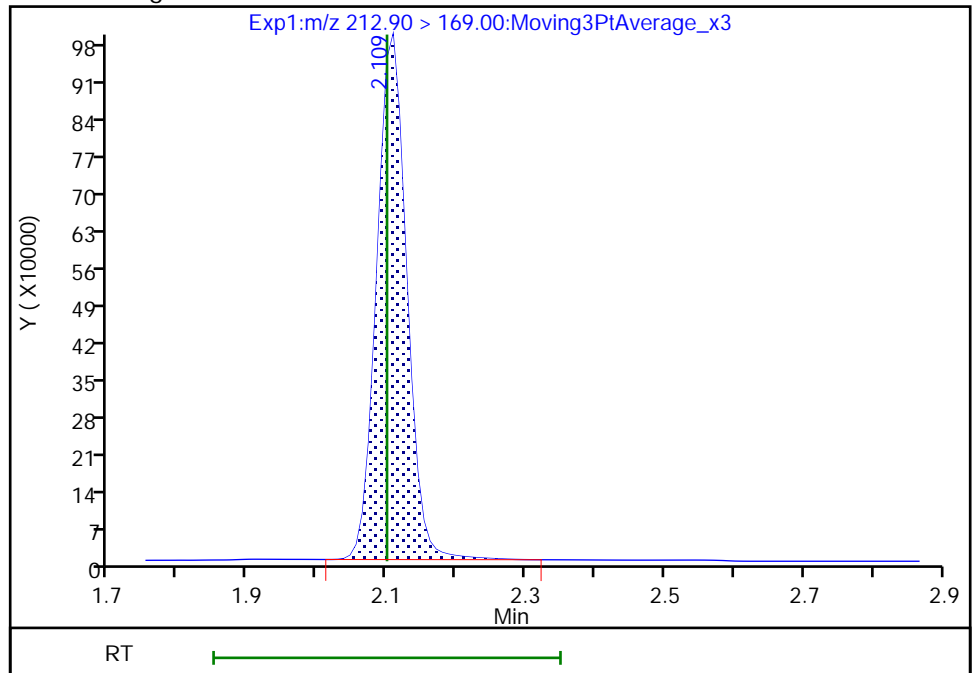
RT: 2.11
Area: 3022347
Amount: 2.427607
Amount Units: ng/ml

Processing Integration Results



RT: 2.11
Area: 2961201
Amount: 2.421098
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:41:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

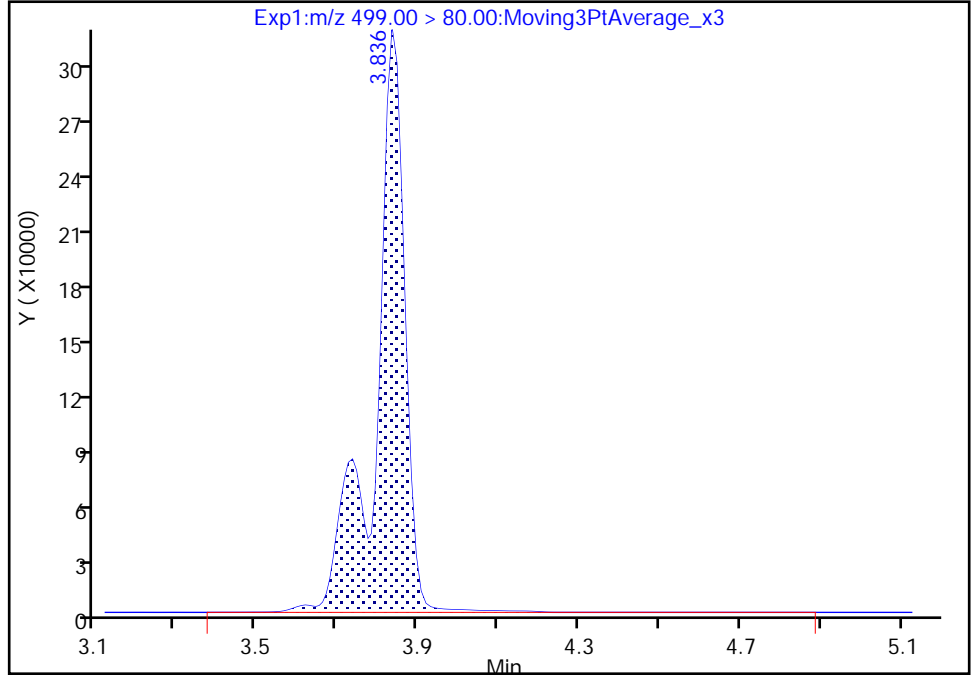
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL06.d
Injection Date: 20-May-2021 17:28:48 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

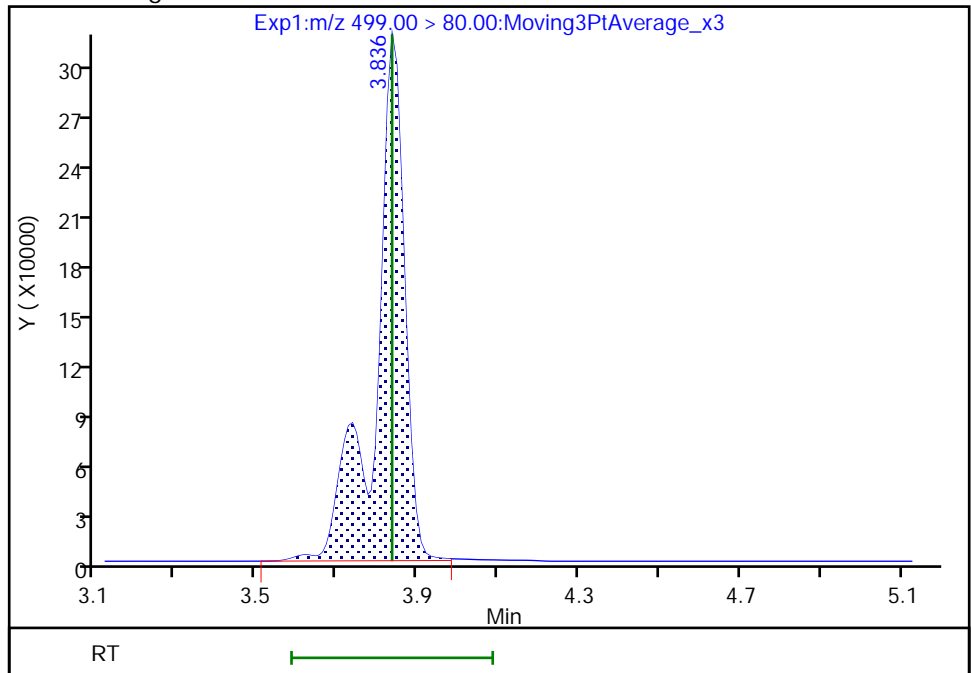
RT: 3.84
Area: 1579094
Amount: 2.216571
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 1560486
Amount: 2.204600
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

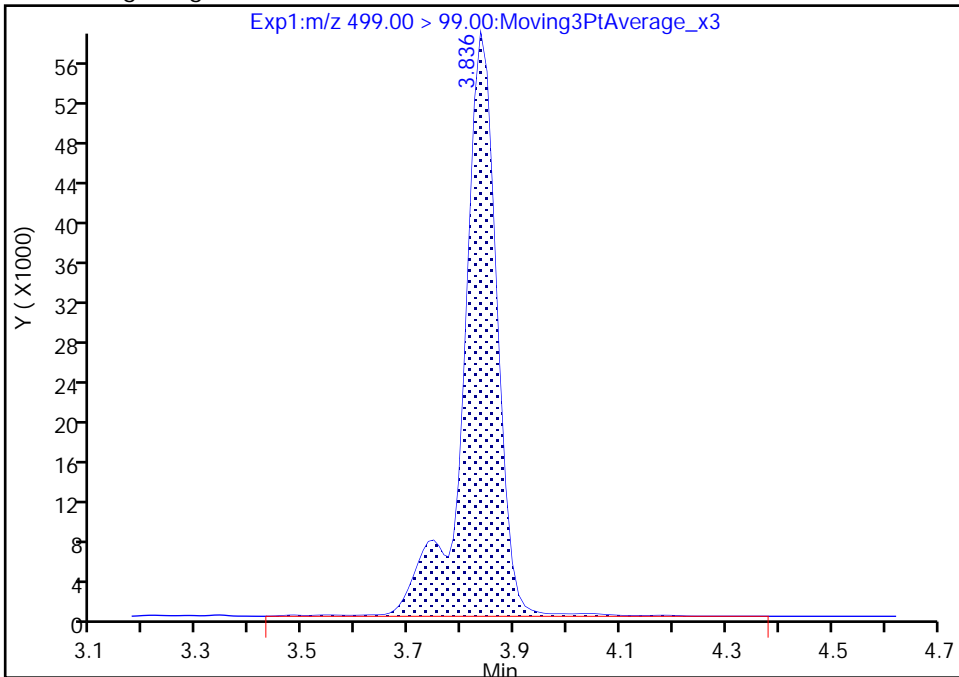
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL06.d
Injection Date: 20-May-2021 17:28:48 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

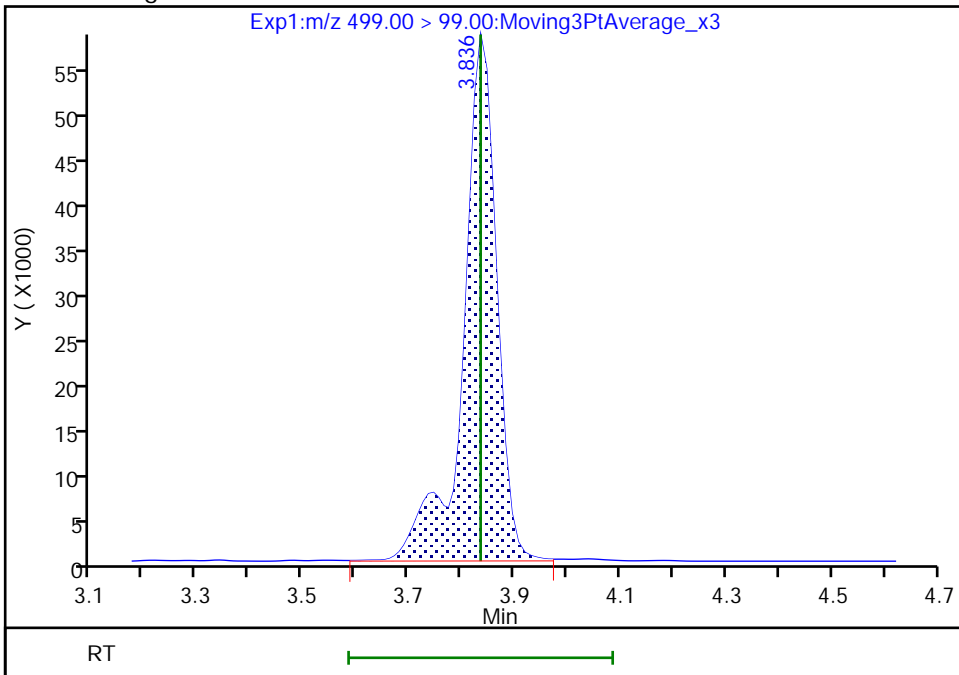
RT: 3.84
Area: 262628
Amount: 2.216571
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 259502
Amount: 2.204600
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

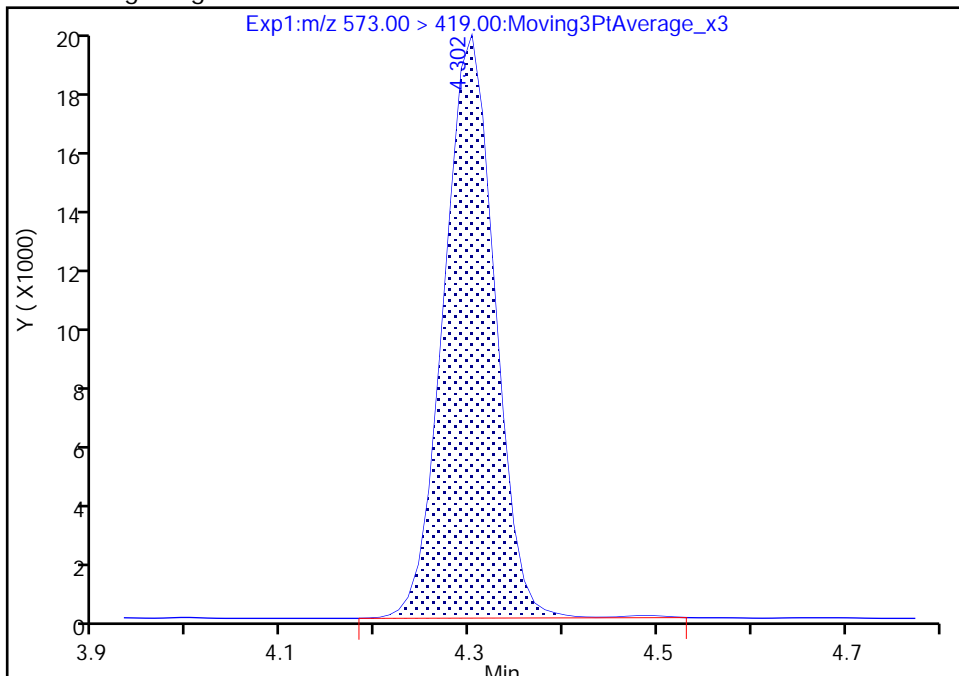
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL06.d
Injection Date: 20-May-2021 17:28:48 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 27 d3-NMeFOSAA, CAS: STL02118

Signal: 1

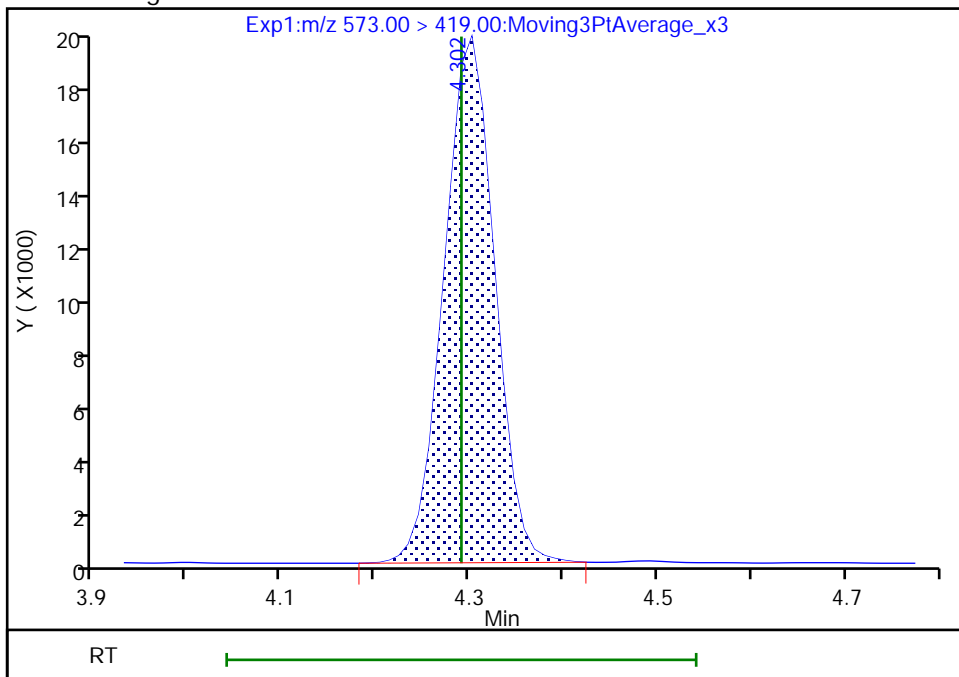
RT: 4.30
Area: 73937
Amount: 1.310862
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 73582
Amount: 1.267017
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:42:18
Audit Action: Manually Integrated

Euofins TestAmerica, Burlington

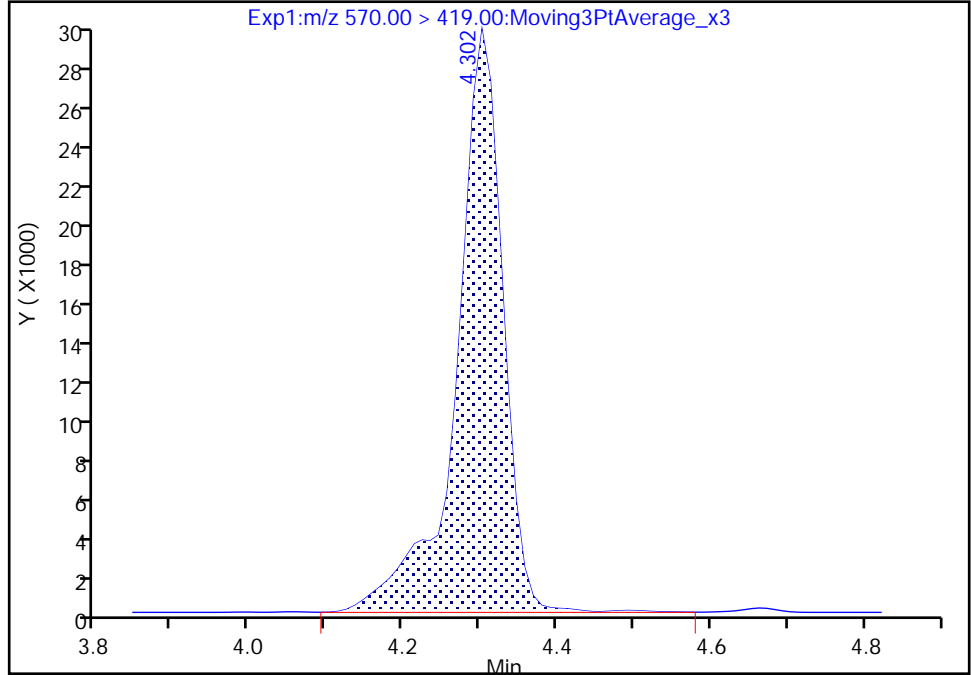
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL06.d
Injection Date: 20-May-2021 17:28:48 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

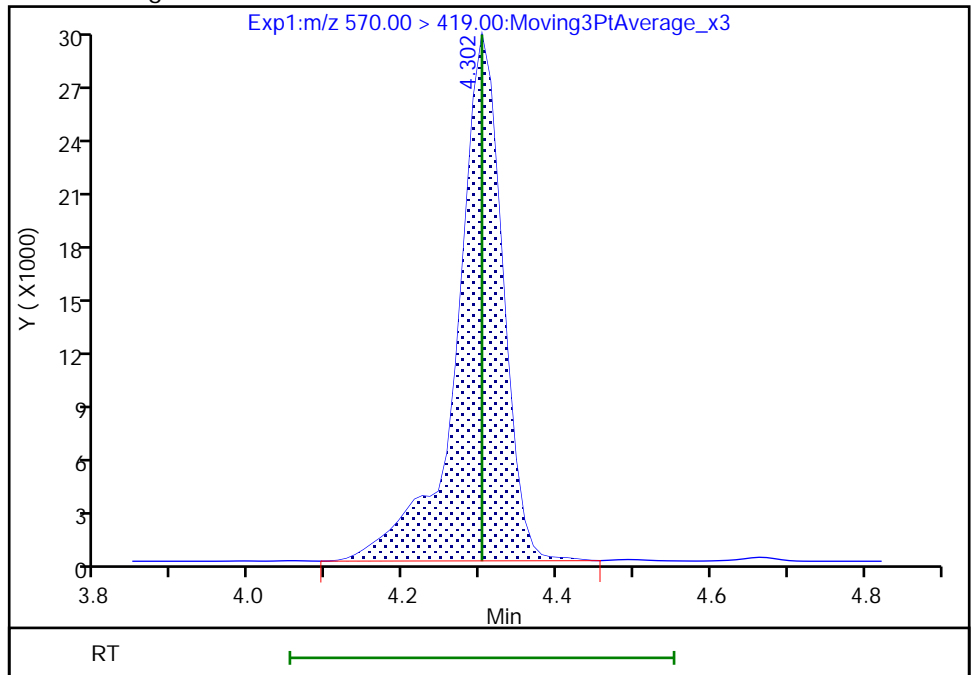
RT: 4.30
Area: 124323
Amount: 2.366776
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 123538
Amount: 2.387273
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

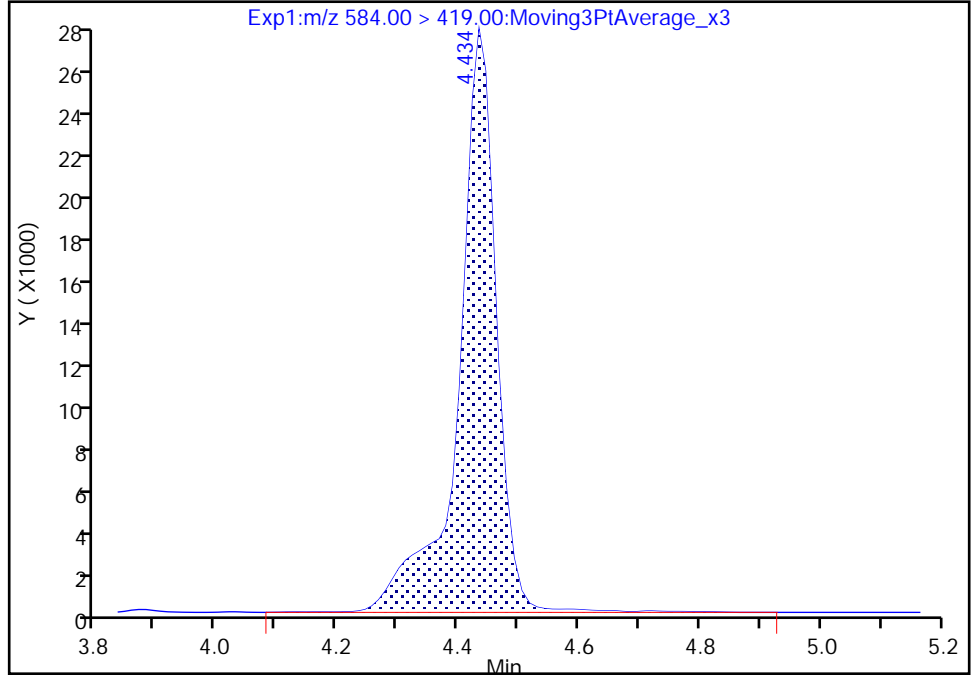
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Injection Date: 20-May-2021 17:28:48 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

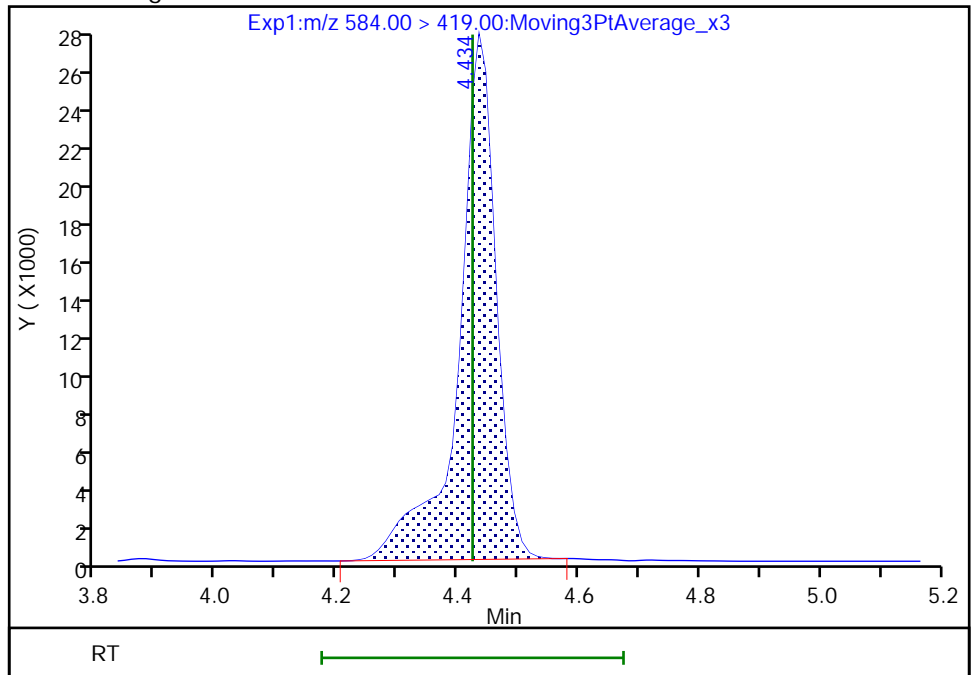
RT: 4.43
Area: 119293
Amount: 2.205507
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 116555
Amount: 2.310219
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:42:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 366 of 761

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 20-May-2021 17:37:03 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0046072-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-May-2021 18:23:53 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1654

First Level Reviewer: chirgwinb Date: 20-May-2021 17:50:48

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	2.100	0.0	0.597	1579986	1.28	102	11449	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.100	2.100	0.0	1.000	10994962	9.30		93.0	2605	M
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1124095	1.25	100	2712	
4 Perfluoropentanoic acid	262.90 > 219.00	2.426	2.426	0.0	1.000	8964012	9.86	98.6	1058	
D 47 13C3 PFBS	301.90 > 80.00	2.439	2.452	-0.013	0.693	1366151	1.22	105	483993	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.452	2.452	0.0	1.005	10292876	8.50	Target=2.17	96.2	35284
298.90 > 99.00	2.452	2.452	0.0	1.005	4719759		2.18(1.08-3.25)	96.2	2956	
D 60 M2-4:2 FTS	329.00 > 81.00	2.746	2.758	-0.012	0.780	115000	1.32	113	141	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.758	2.758	0.0	1.004	1394764	8.12	87.0	2744	
D 7 13C2 PFHxA	315.00 > 270.00	2.782	2.794	-0.012	0.791	1229991	1.26	101	6092	
6 Perfluorohexanoic acid	313.00 > 269.00	2.795	2.794	0.001	1.004	9650754	9.69	Target=12.10	96.9	3881
313.00 > 119.00	2.795	2.794	0.001	1.004	804327		12.00(6.05-18.15)	96.9	2109	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.795	2.794	0.001	0.886	9847803	9.01	Target=3.51	96.0	58714
349.00 > 99.00	2.795	2.794	0.001	0.886	2779809		3.54(1.75-5.26)	96.0	2285	
67 Perfluoro(2-propoxypropanoic) ac	329.10 > 285.00	2.902	2.902	0.0	1.000	1767823	9.58		95.8	782

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	0.825	139372	1.29		103	1787	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.153	0.001	1.000	8829920	8.87	Target=4.34	97.5	19755	
399.00 > 99.00	3.154	3.153	0.001	1.000	2043900		4.32(2.17-6.50)	97.5	1614	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.153	0.001	0.896	1062004	1.22		103	1423	
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.164	0.0	0.899	1212382	1.25		99.6	2457	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.164	3.164	0.0	1.000	9583337	9.80	Target=3.57	98.0	2563	
363.00 > 169.00	3.164	3.164	0.0	1.000	2727712		3.51(1.78-5.35)	98.0	4004	
77 DONA										
377.00 > 251.00	3.196	3.196	0.0	0.833	17772326	8.89	Target=2.42	94.4	8024	
377.00 > 85.00	3.196	3.196	0.0	0.833	7676081		2.32(1.21-3.62)	94.4	11766	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.501	3.510	-0.009	0.913	7499322	9.49	Target=6.39	99.6	25535	
449.00 > 99.00	3.501	3.510	-0.009	0.913	1200688		6.25(3.19-9.58)	99.6	4141	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	144796	1.26		106	480	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	1026605	9.39		99.0	1676	
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1231684	1.25		99.9	3671	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1231743	1.25		128		M
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	9930130	9.81	Target=2.42	98.1	2516	
413.00 > 169.00	3.519	3.519	0.0	1.000	3984539		2.49(1.21-3.63)	98.1	5686	
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	760503	1.21		101	1606	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	6225082	9.09	Target=5.78	97.9	1857	M
499.00 > 99.00	3.836	3.836	0.0	1.000	1025485		6.07(2.89-8.66)	97.9	1270	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	8641082	9.59	Target=6.76	95.9	2117	
463.00 > 169.00	3.859	3.858	0.001	1.000	1387446		6.23(3.38-10.14)	95.9	7916	
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.097	1169588	1.29		103	3284	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.992	3.992	0.0	1.041	5874842	8.91		95.6	11406	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	4781958	9.37	Target=2.92	97.6	11447	
549.00 > 99.00	4.126	4.126	0.0	1.076	1627881		2.94(1.46-4.38)	97.6	2849	
D 23 13C2 PFDA										
515.00 > 470.00	4.149	4.148	0.001	1.179	1007790	1.26		101	3235	

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	8281865	9.82	Target=8.21	98.2	4681	
513.00 > 169.00	4.149	4.148	0.001	1.000	1014308		8.17(4.11-12.32)	98.2	3479	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.171	4.160	0.011	1.185	148814	1.26		105	558	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.160	0.0	0.997	604140	9.69		101	1524	
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.214	0.011	1.201	1437435	1.28		102	3841	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.214	0.011	1.000	10770745	9.57		95.7	3758	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.291	4.291	0.0	1.219	77541	1.44		115	49.8	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.003	507548	9.31		93.1	1156	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.380	0.011	1.145	3767258	9.38	Target=2.74	97.3	3314	
599.00 > 99.00	4.391	4.380	0.011	1.145	1394566		2.70(1.37-4.11)	97.3	2646	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.413	0.011	1.000	6192228	9.45	Target=7.58	94.5	3966	
563.00 > 169.00	4.424	4.413	0.011	1.000	807252		7.67(3.79-11.36)	94.5	3769	
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.413	0.011	1.257	828481	1.30		104	4483	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.424	0.0	1.257	68967	1.27		102	718	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.435	4.424	0.011	1.002	492138	10.3		103	1728	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.505	4.505	0.0	1.174	5373953	9.16		97.2	4513	
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.642	0.011	1.322	873004	1.31		104	4199	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.000	6613458	9.44	Target=5.88	94.4	1941	
613.00 > 169.00	4.653	4.653	0.0	1.000	1192538		5.55(2.94-8.82)	94.4	4725	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.672	4.672	0.0	1.120	314614	9.84		102	2490	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.822	4.822	0.0	1.257	1362962	9.95	Target=0.46	103	3803	
699.00 > 99.00	4.822	4.822	0.0	1.257	2897415		0.47(0.23-0.69)	103	2457	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.866	4.866	0.0	1.046	5340447	9.46	Target=3.79	94.6	2185	
663.00 > 169.00	4.866	4.866	0.0	1.046	1396551		3.82(1.89-5.68)	94.6	3924	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.062	5.053	0.009	1.439	663103	1.36		108	4643	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.062	5.053	0.009	1.000	1040192	9.59	Target=1.07	95.9	4302	
713.00 > 219.00	5.053	5.053	0.0	0.998	994976		1.05(0.53-1.60)	95.9	5579	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.417	5.406	0.011	1.000	4994513	9.50	Target=3.53	95.0	2247	
813.00 > 169.00	5.417	5.406	0.011	1.000	1412661		3.54(1.77-5.30)	95.0	10034	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.417	5.406	0.011	1.539	687996	1.44		115	3238	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.747	5.747	0.0	1.061	4574719	9.73	Target=3.39	97.3	2251	
913.00 > 169.00	5.747	5.747	0.0	1.061	1336838		3.42(1.69-5.08)	97.3	2511	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC6_00008

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d

Injection Date: 20-May-2021 17:37:03

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

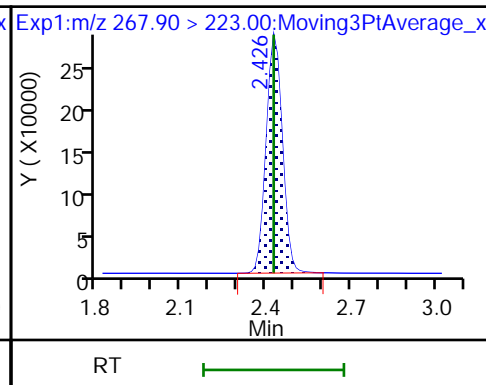
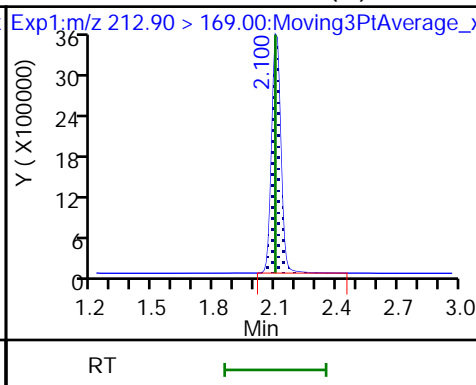
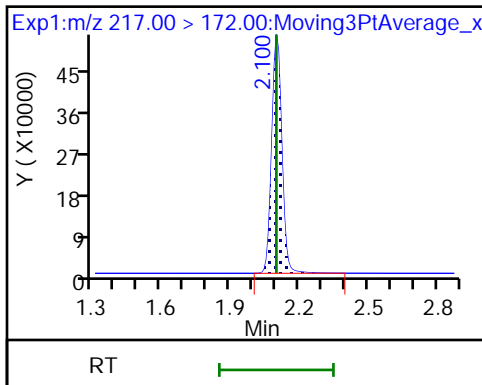
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

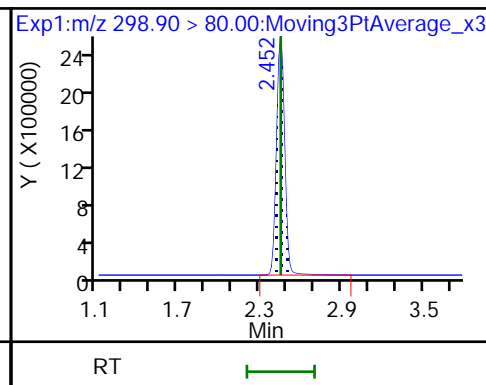
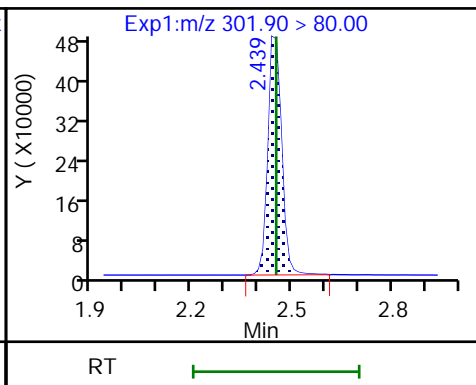
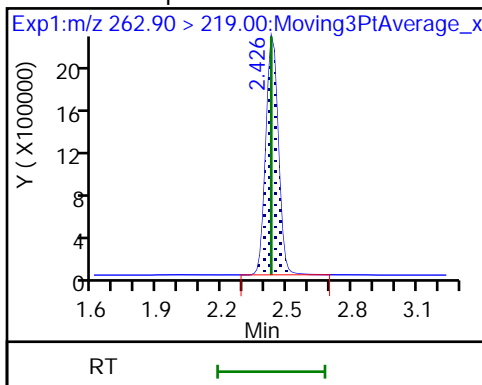
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

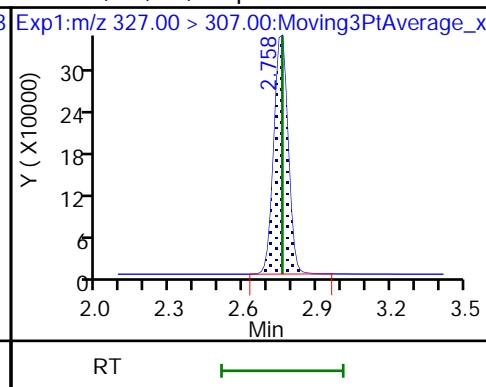
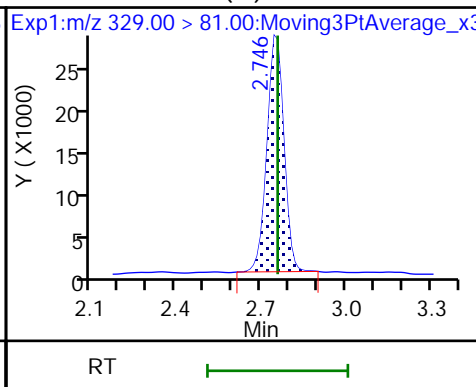
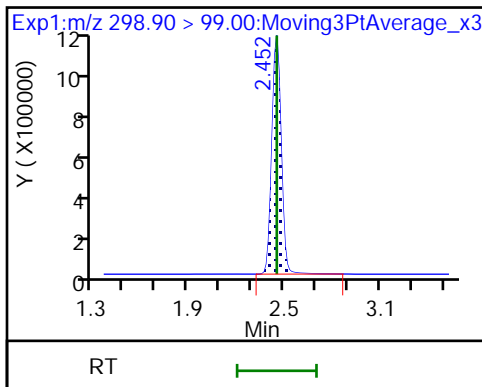
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

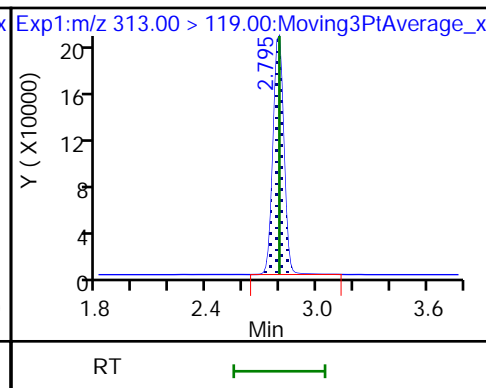
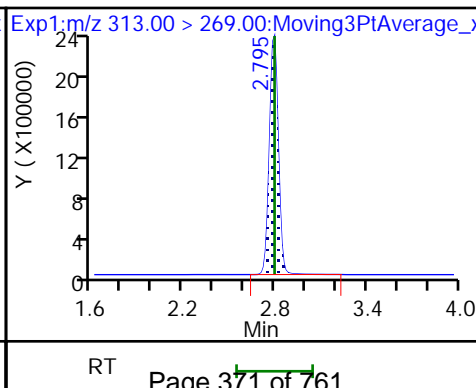
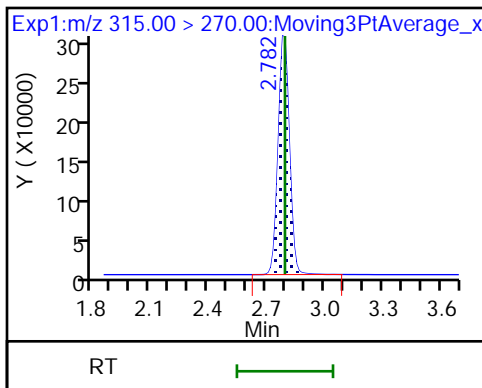
61 1H,1H,2H,2H-perfluorohexanesulfo

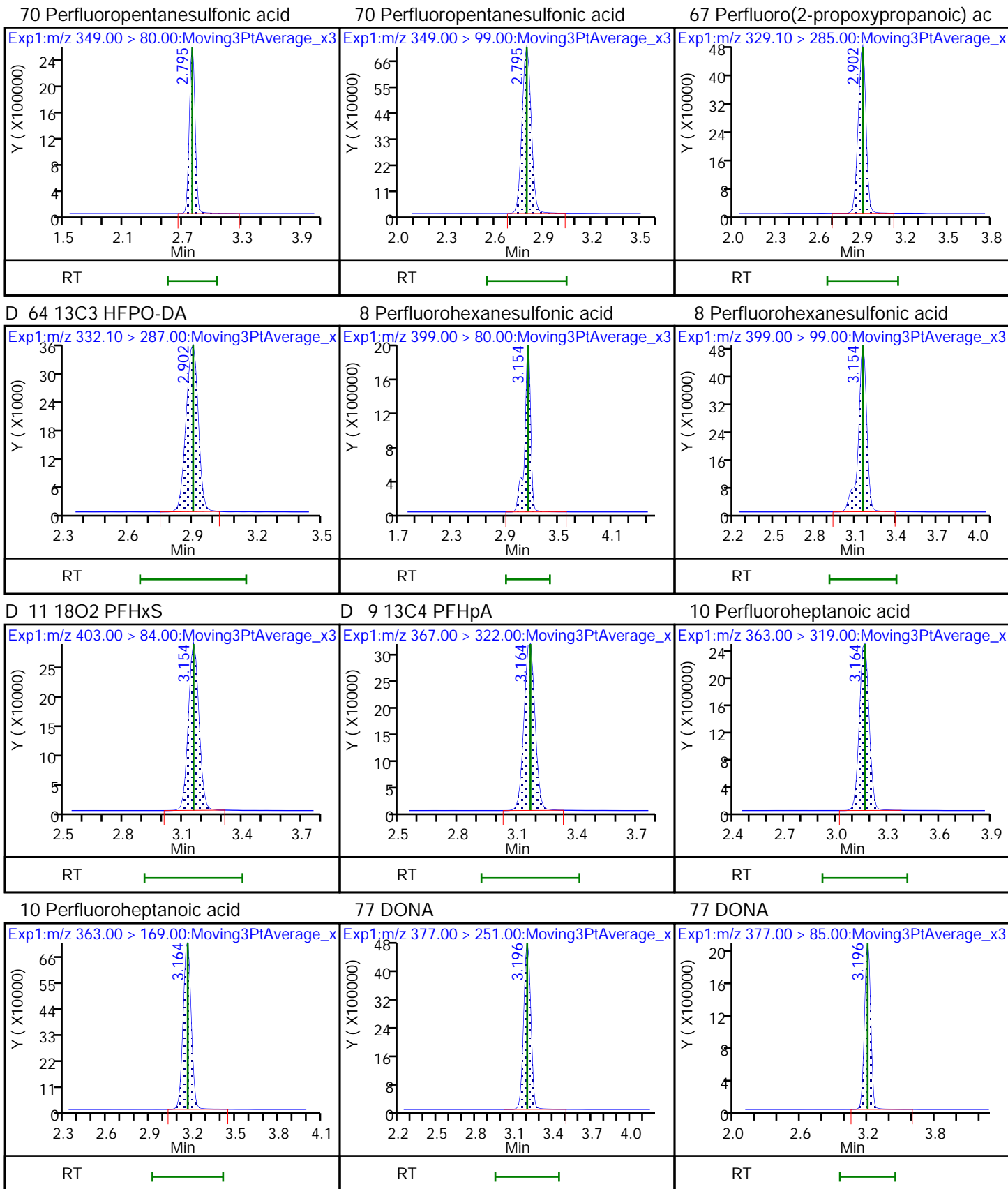


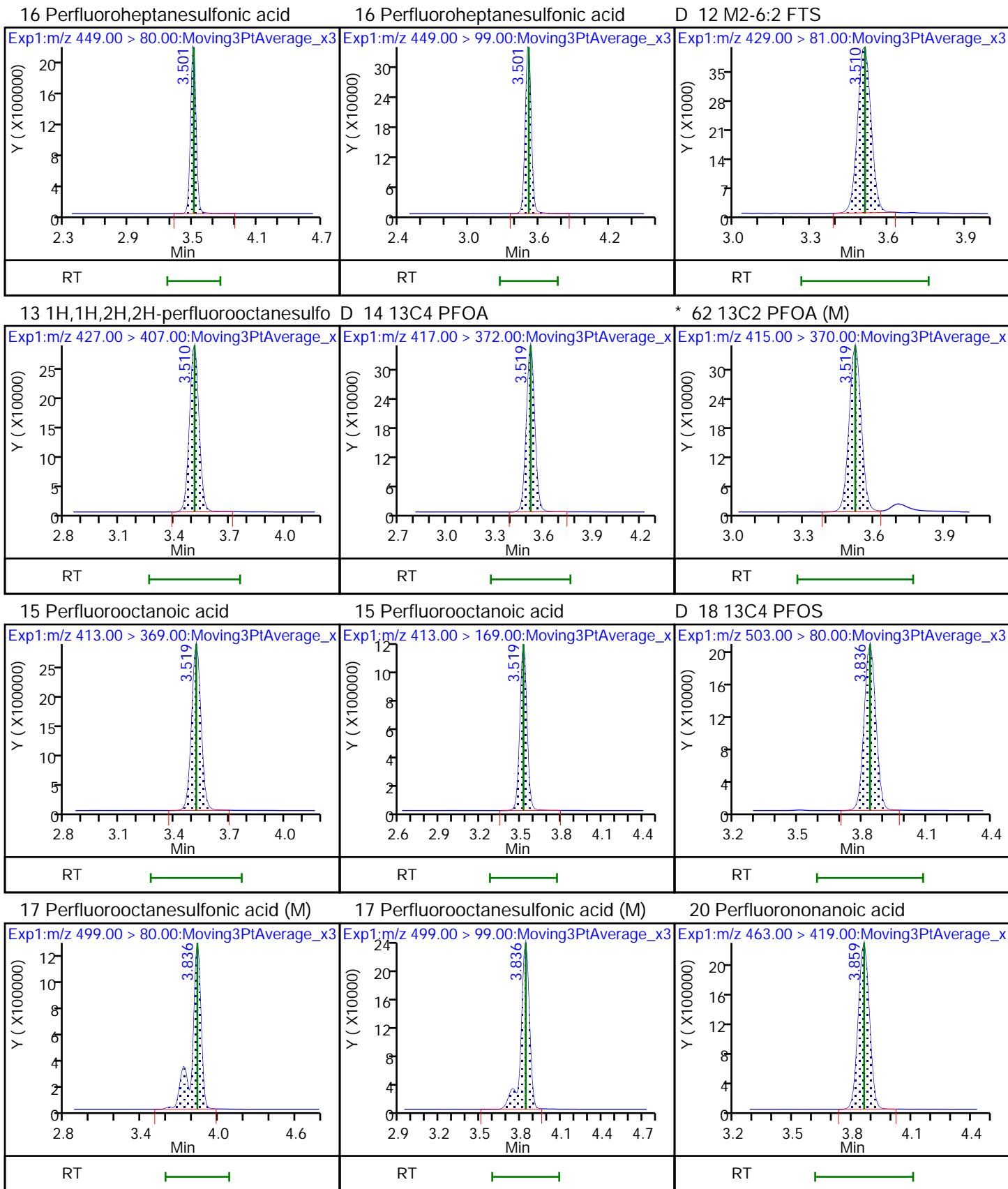
D 7 13C2 PFHxA

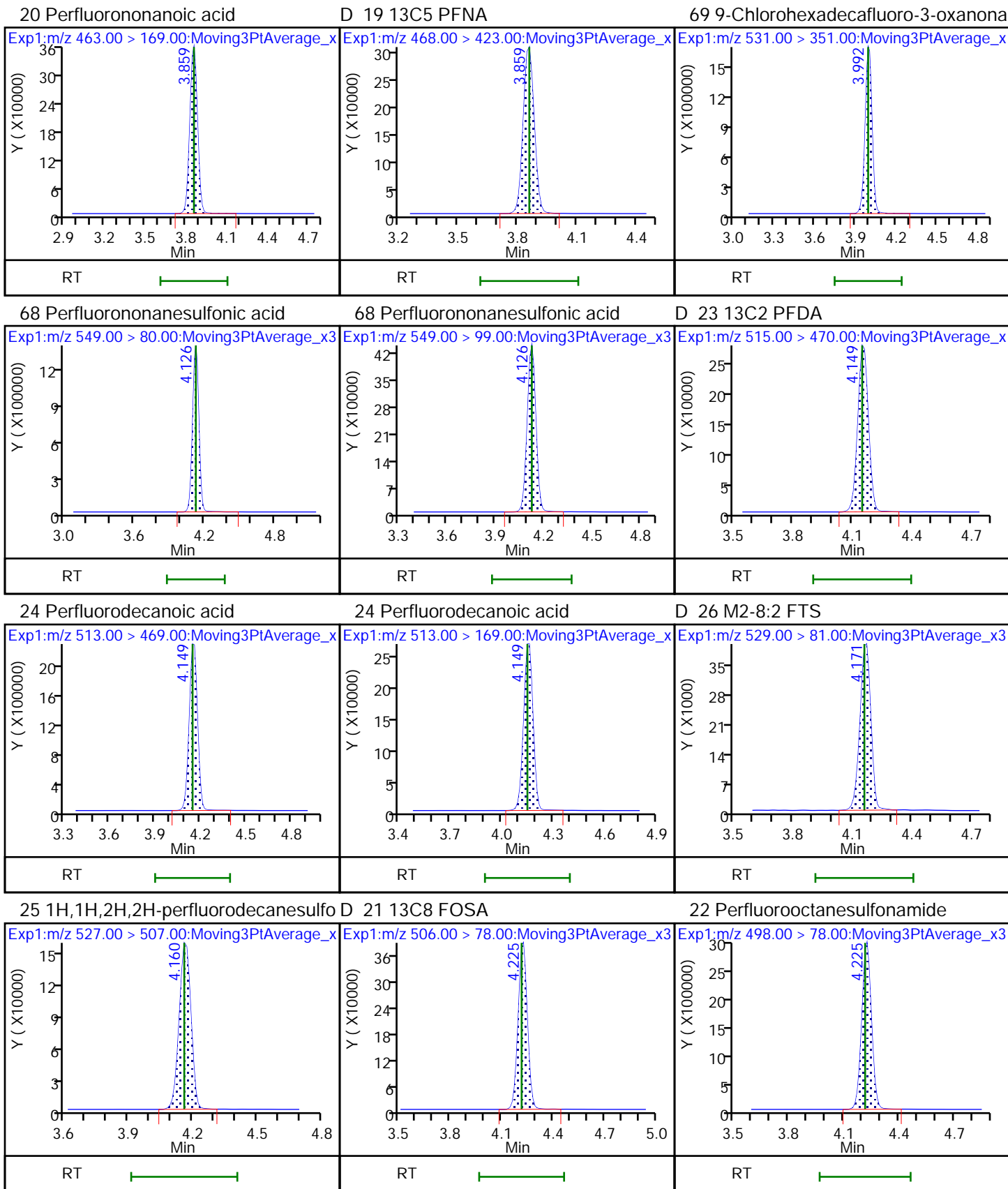
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid



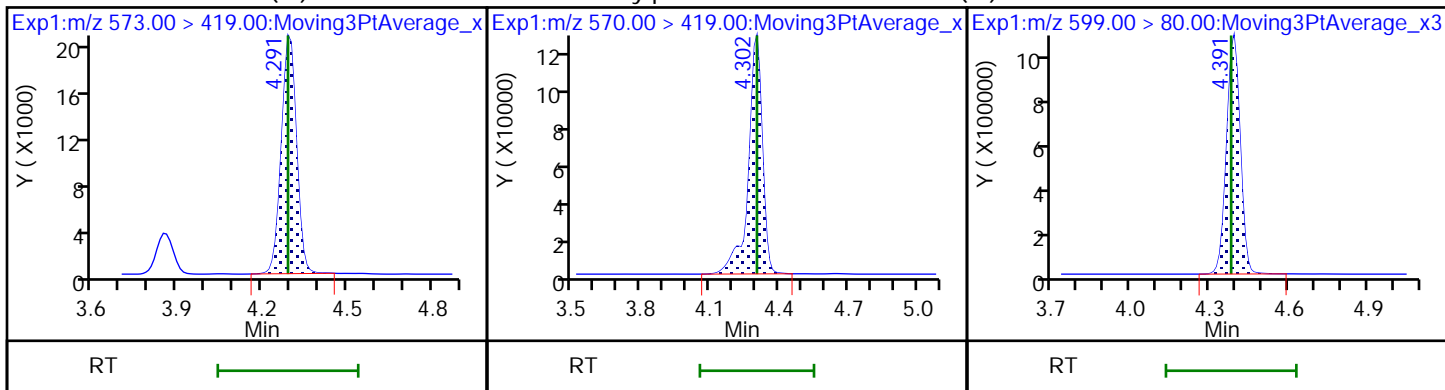






D 27 d3-NMeFOSAA (M)

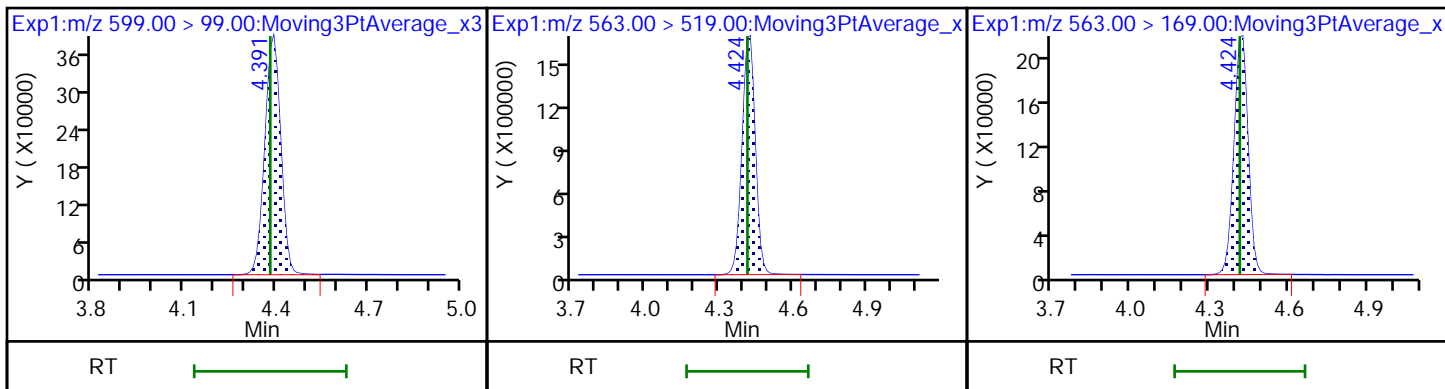
28 N-methylperfluorooctanesulfonami (M)
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

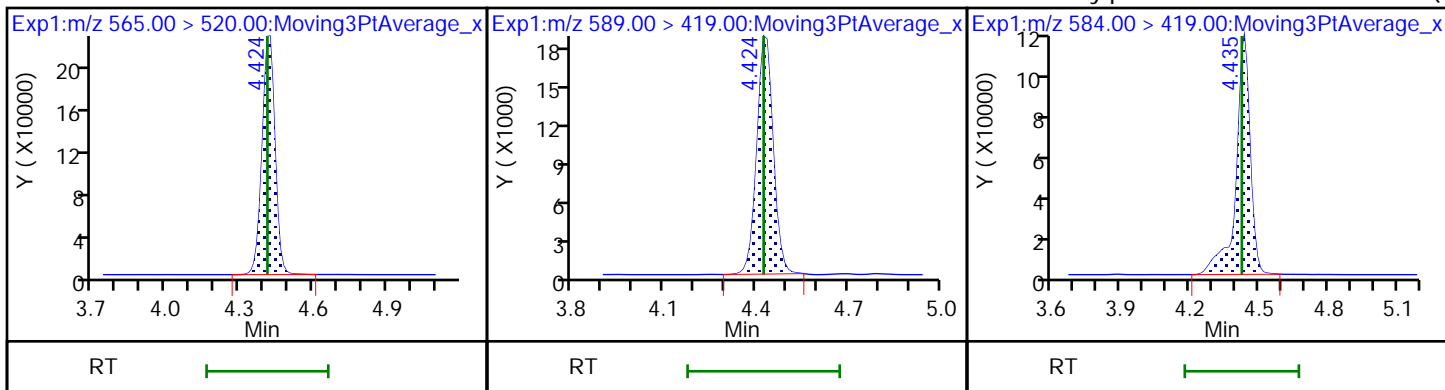
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

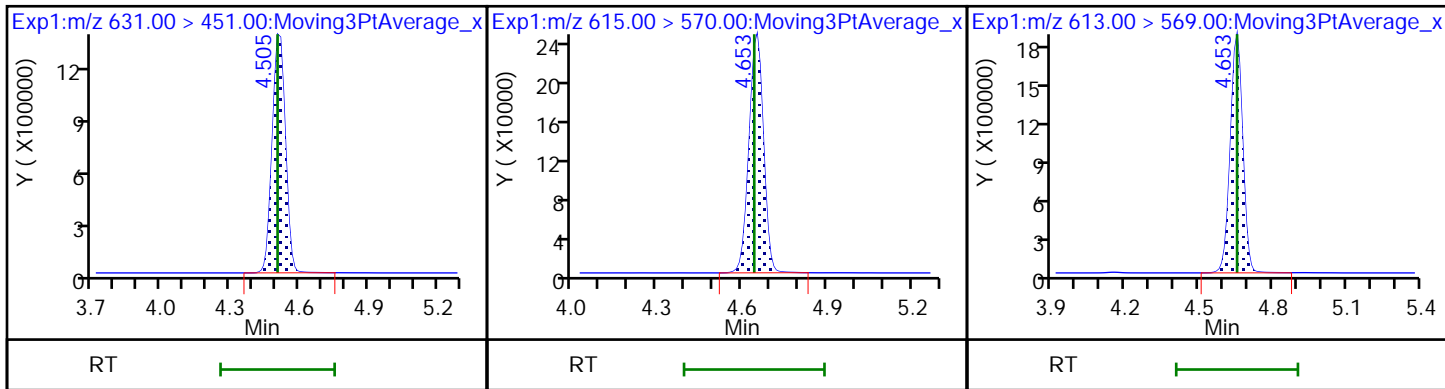
33 N-ethylperfluorooctanesulfonamid (M)

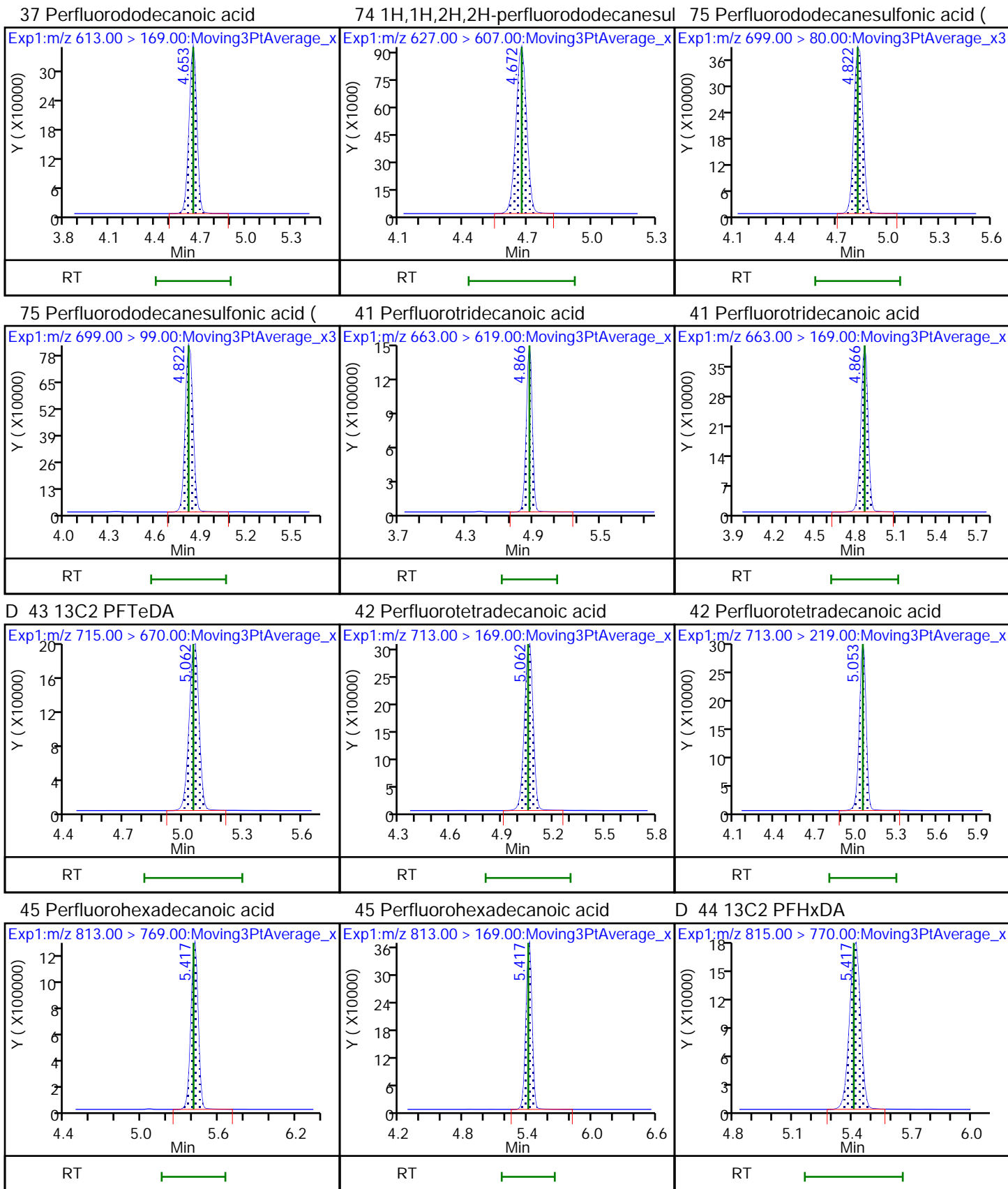


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

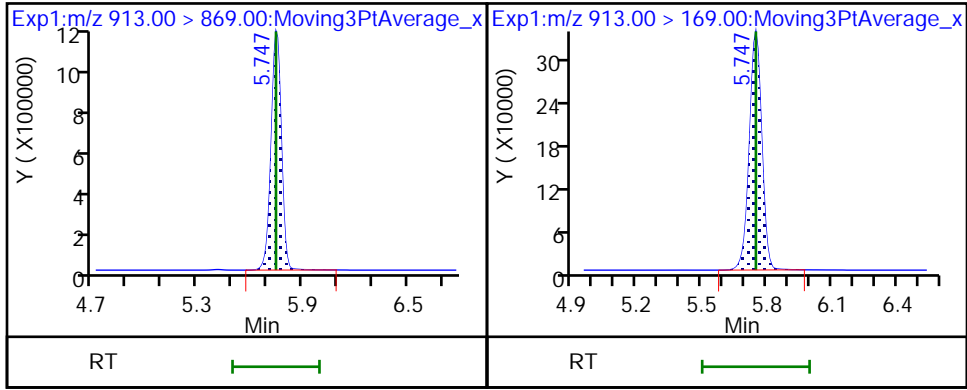
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

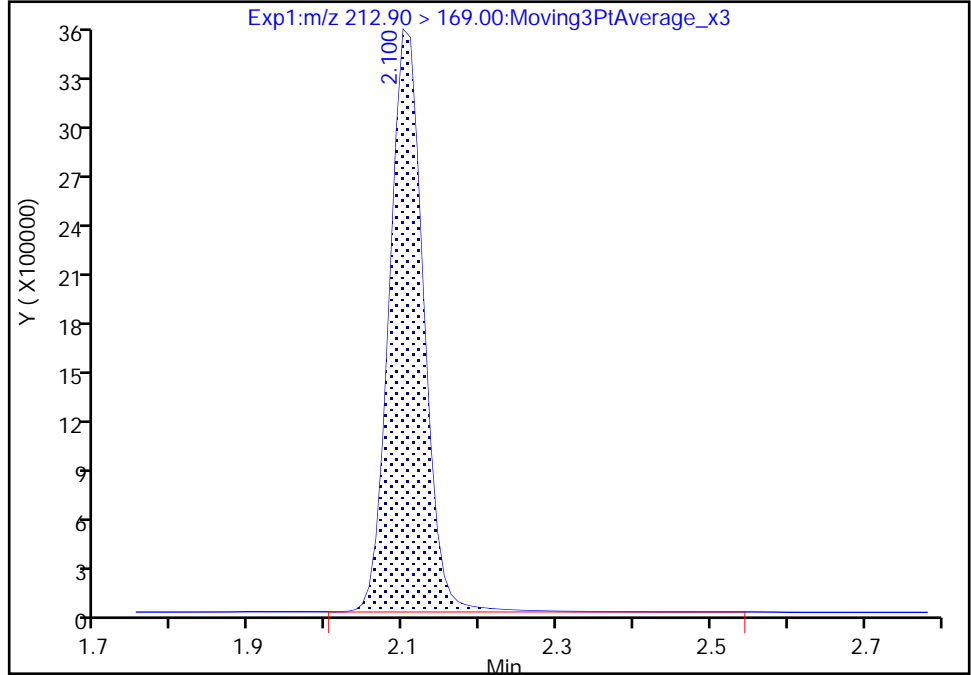
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
Injection Date: 20-May-2021 17:37:03 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

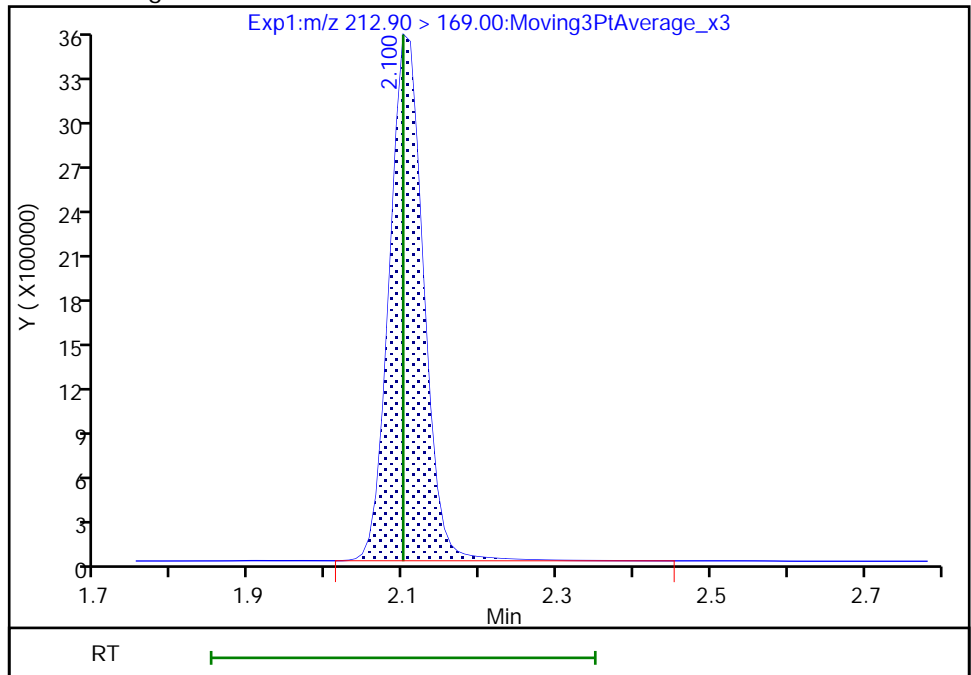
RT: 2.10
Area: 11012500
Amount: 9.316888
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 10994962
Amount: 9.304351
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:48:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

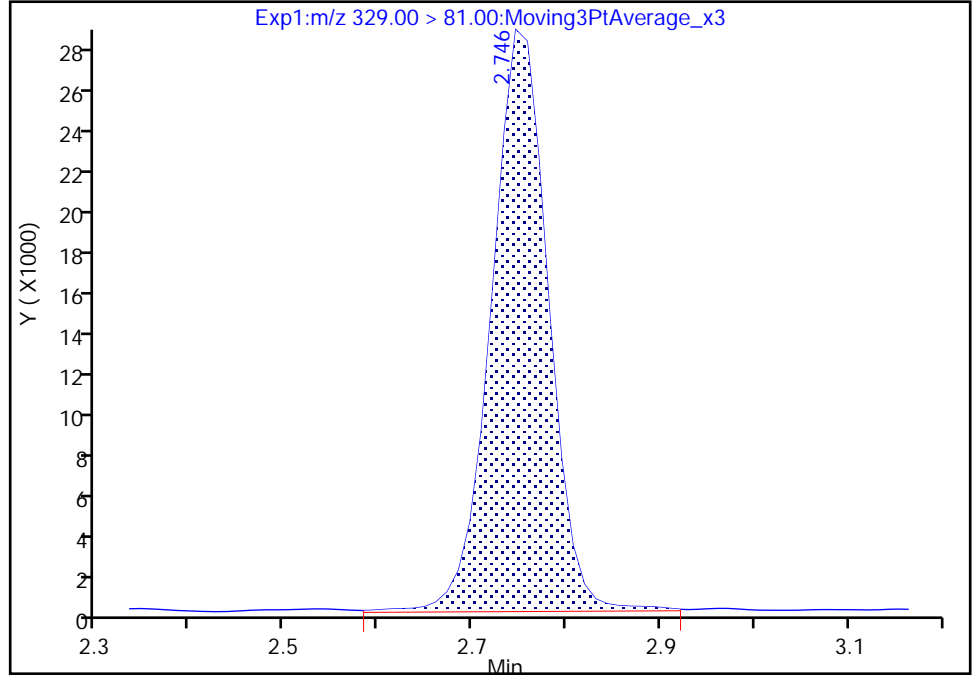
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
Injection Date: 20-May-2021 17:37:03 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

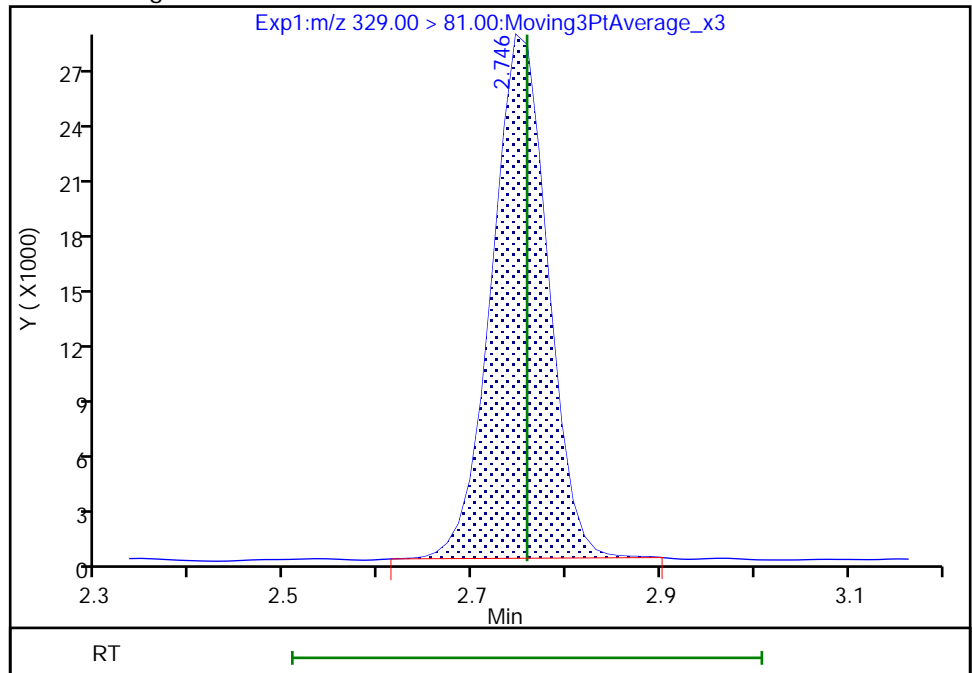
RT: 2.75
Area: 118012
Amount: 1.343266
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 115000
Amount: 1.320791
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:49:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

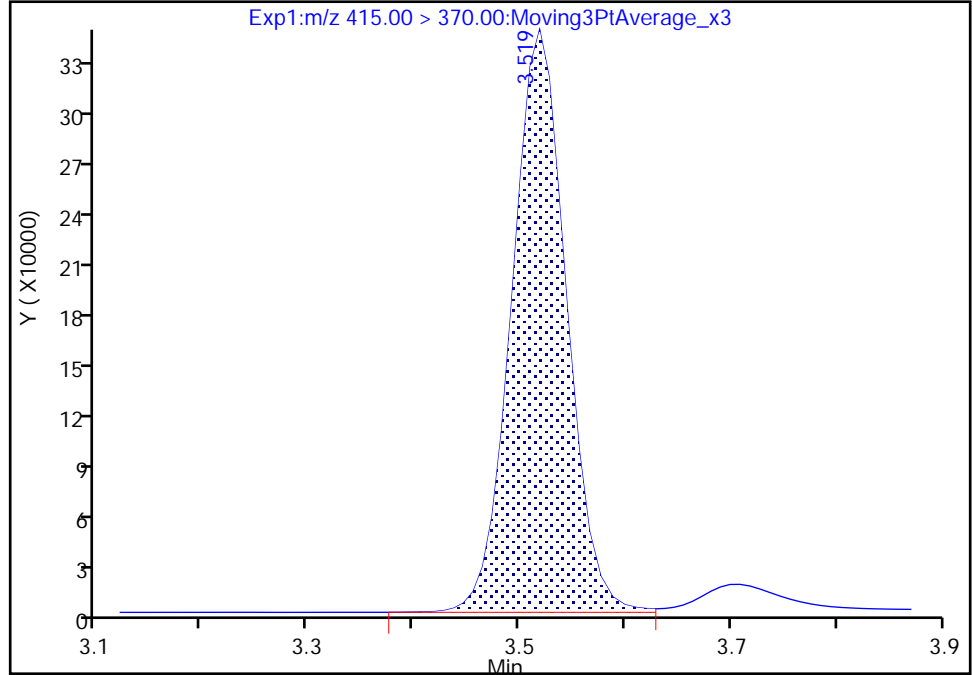
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
Injection Date: 20-May-2021 17:37:03 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

* 62 13C2 PFOA, CAS: STL00623
Signal: 1

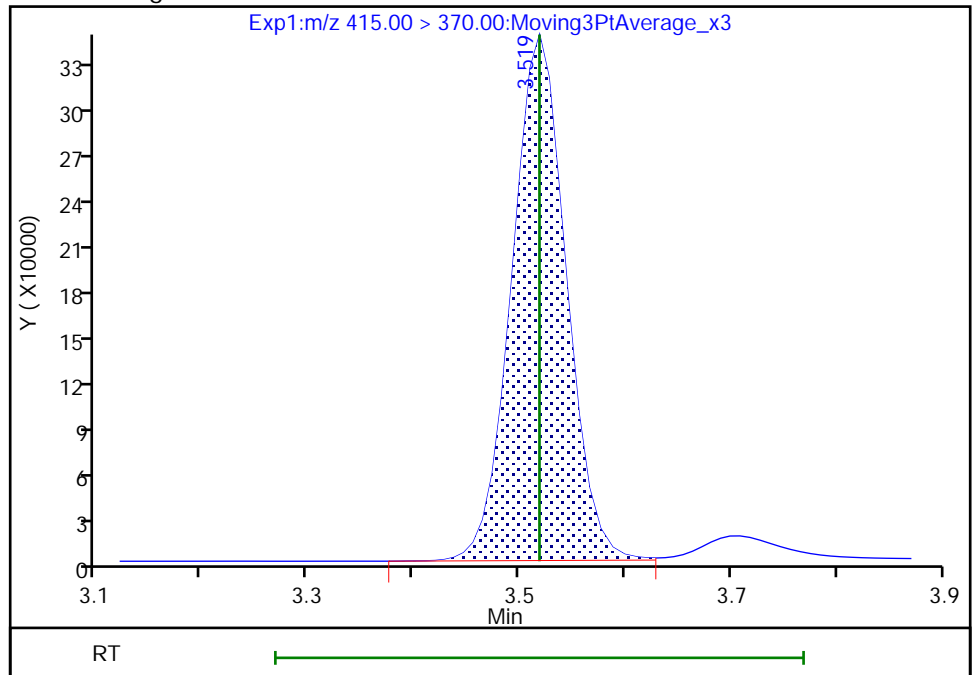
RT: 3.52
Area: 1237469
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1231743
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:21:42
Audit Action: Manually Integrated

Euofins TestAmerica, Burlington

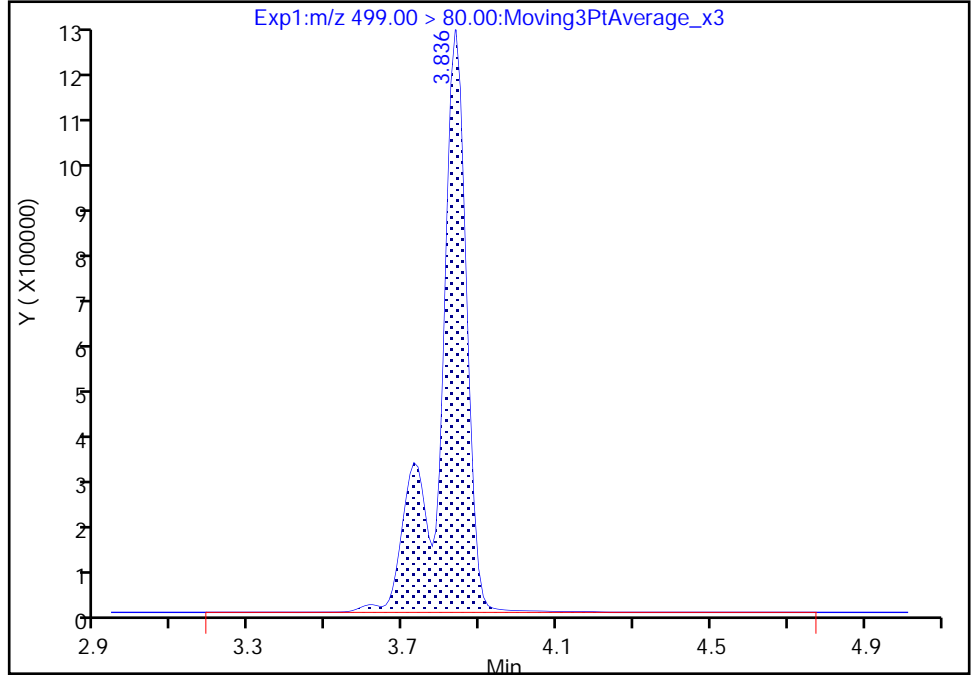
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
Injection Date: 20-May-2021 17:37:03 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

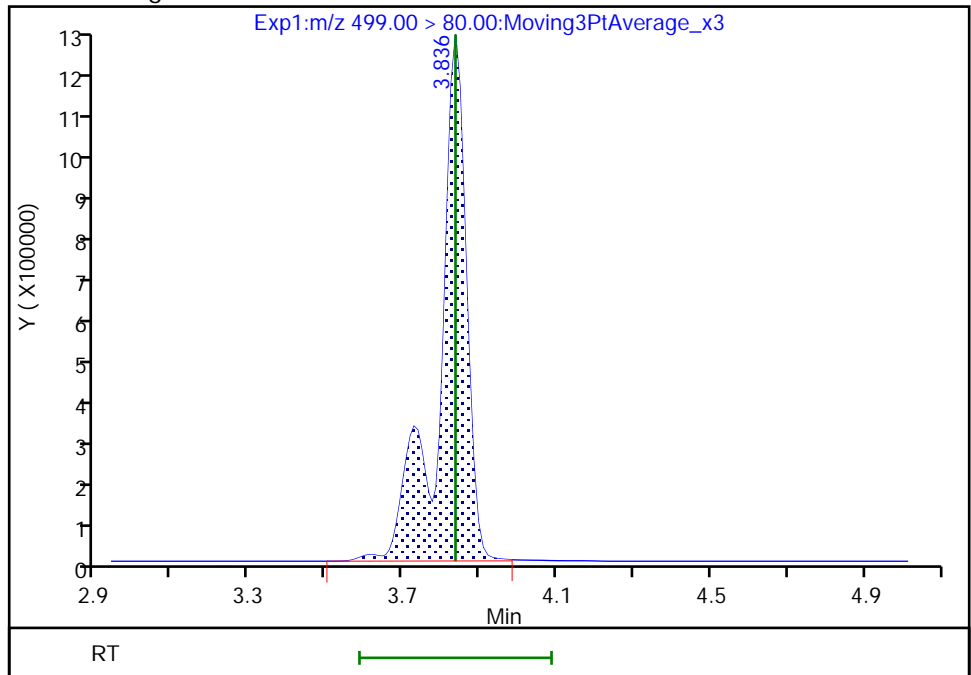
RT: 3.84
Area: 6265047
Amount: 9.134199
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 6225082
Amount: 9.085439
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

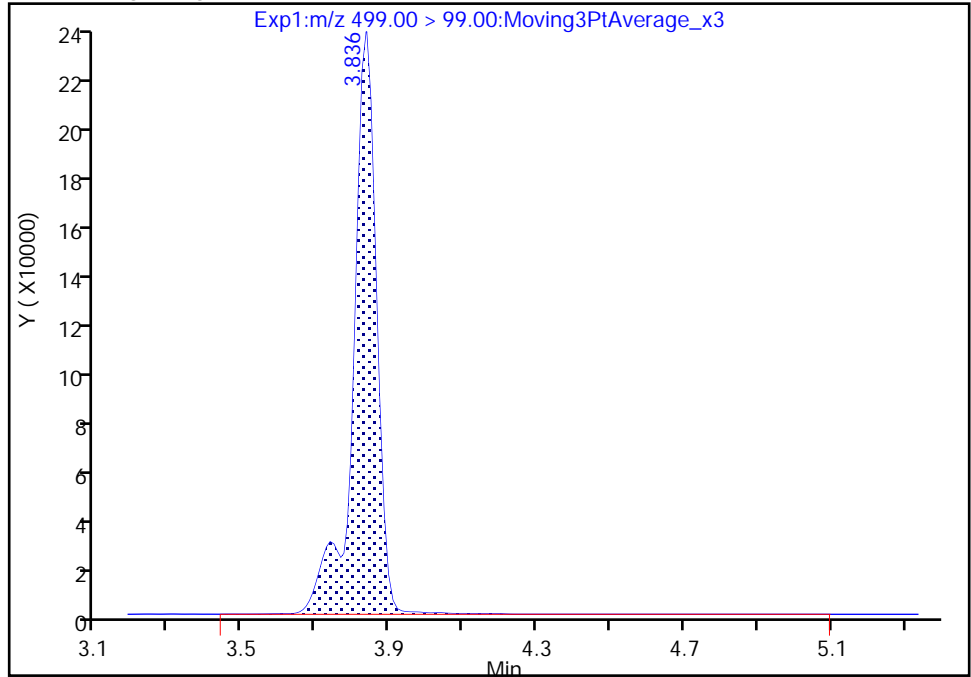
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
Injection Date: 20-May-2021 17:37:03 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

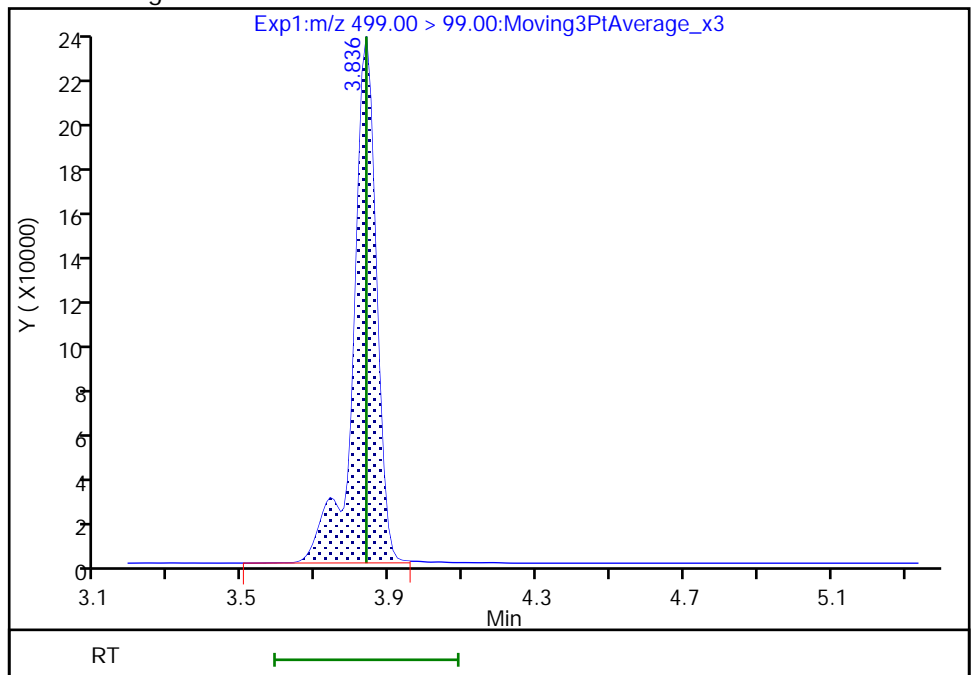
RT: 3.84
Area: 1034284
Amount: 9.134199
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 1025485
Amount: 9.085439
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:50:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

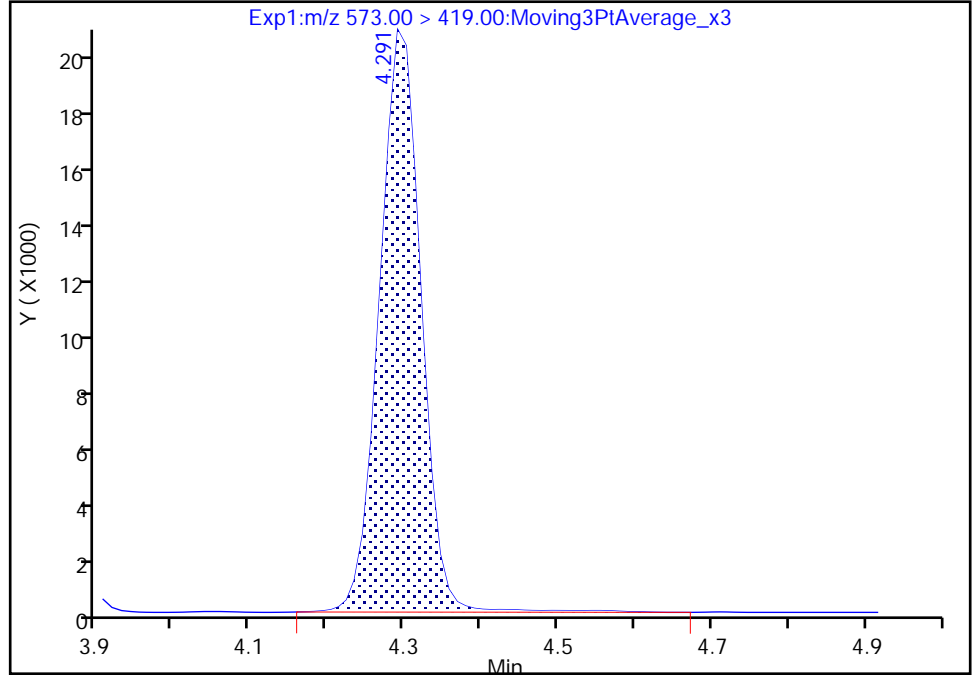
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
Injection Date: 20-May-2021 17:37:03 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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

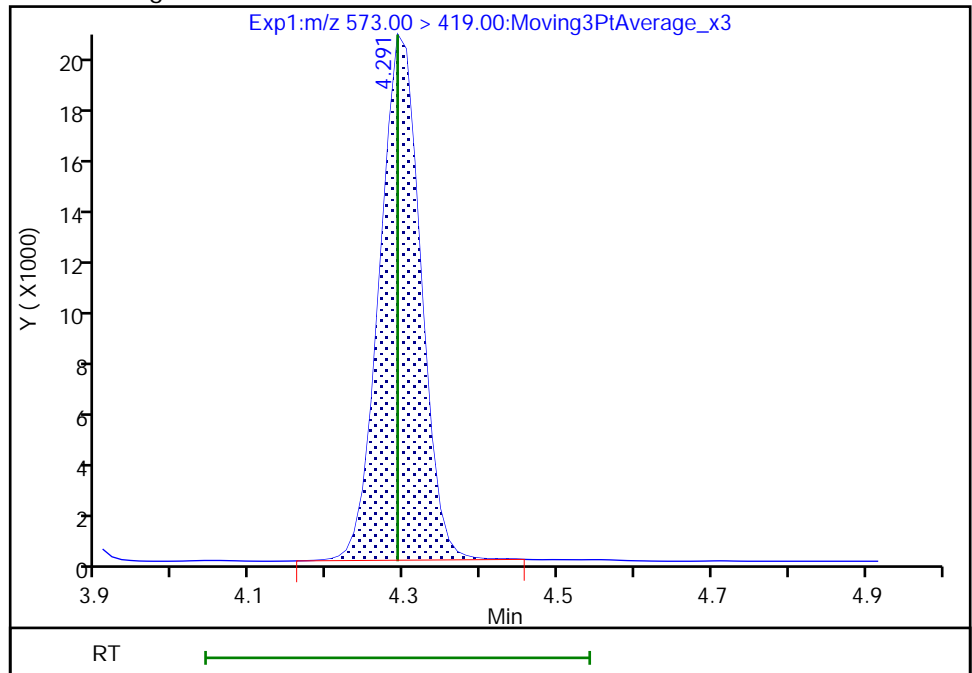
RT: 4.29
Area: 78616
Amount: 1.448574
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 77541
Amount: 1.438387
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:50:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

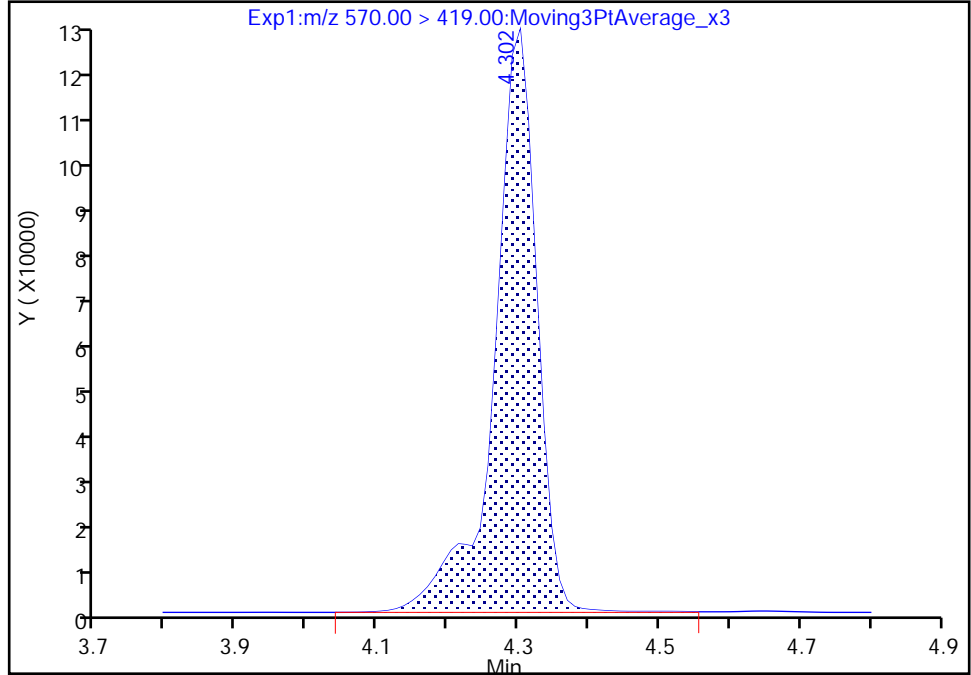
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
Injection Date: 20-May-2021 17:37:03 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

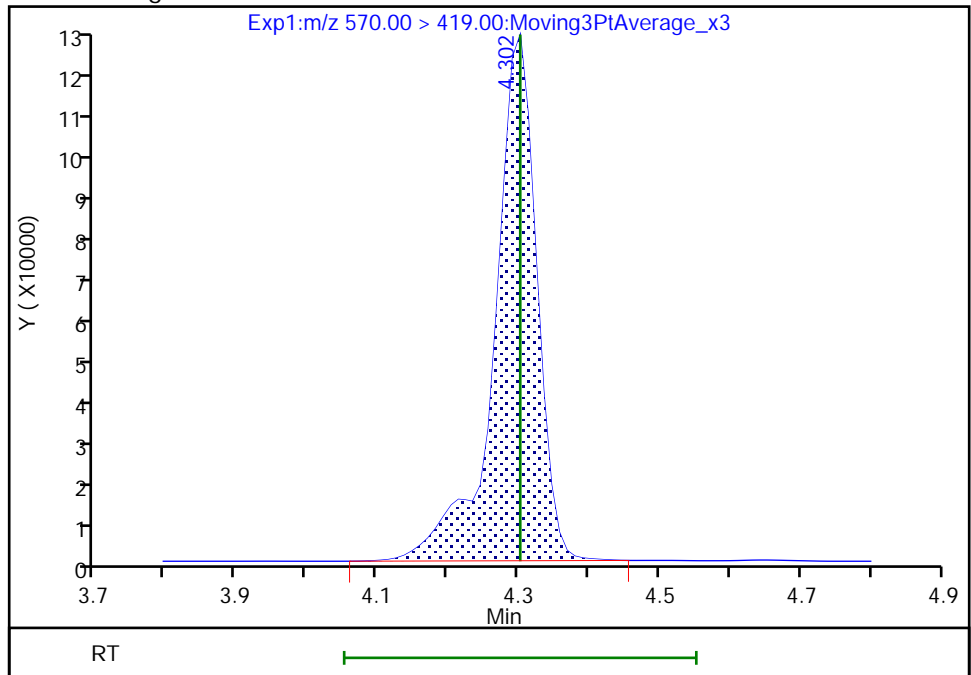
RT: 4.30
Area: 510897
Amount: 9.359030
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 507548
Amount: 9.307197
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

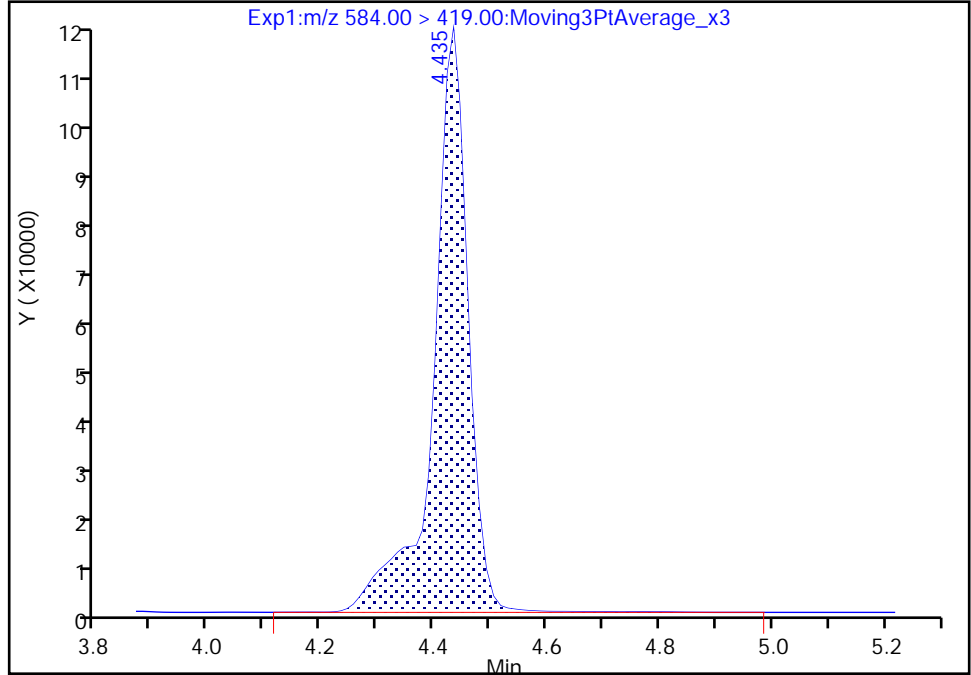
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
Injection Date: 20-May-2021 17:37:03 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

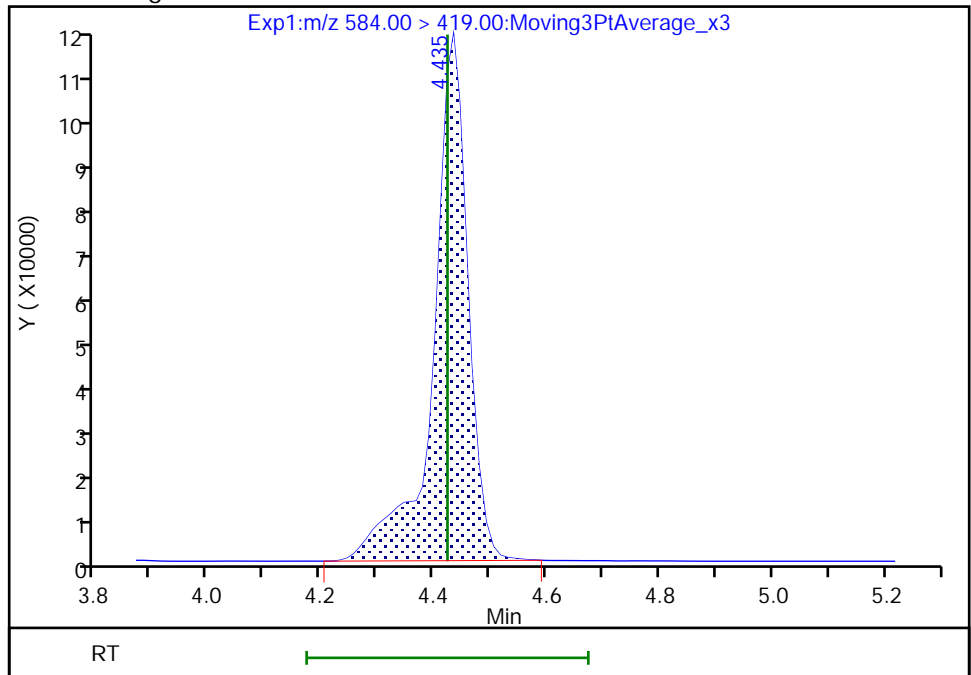
RT: 4.43
Area: 496604
Amount: 9.710987
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 492138
Amount: 10.254175
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 17:50:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Calibration

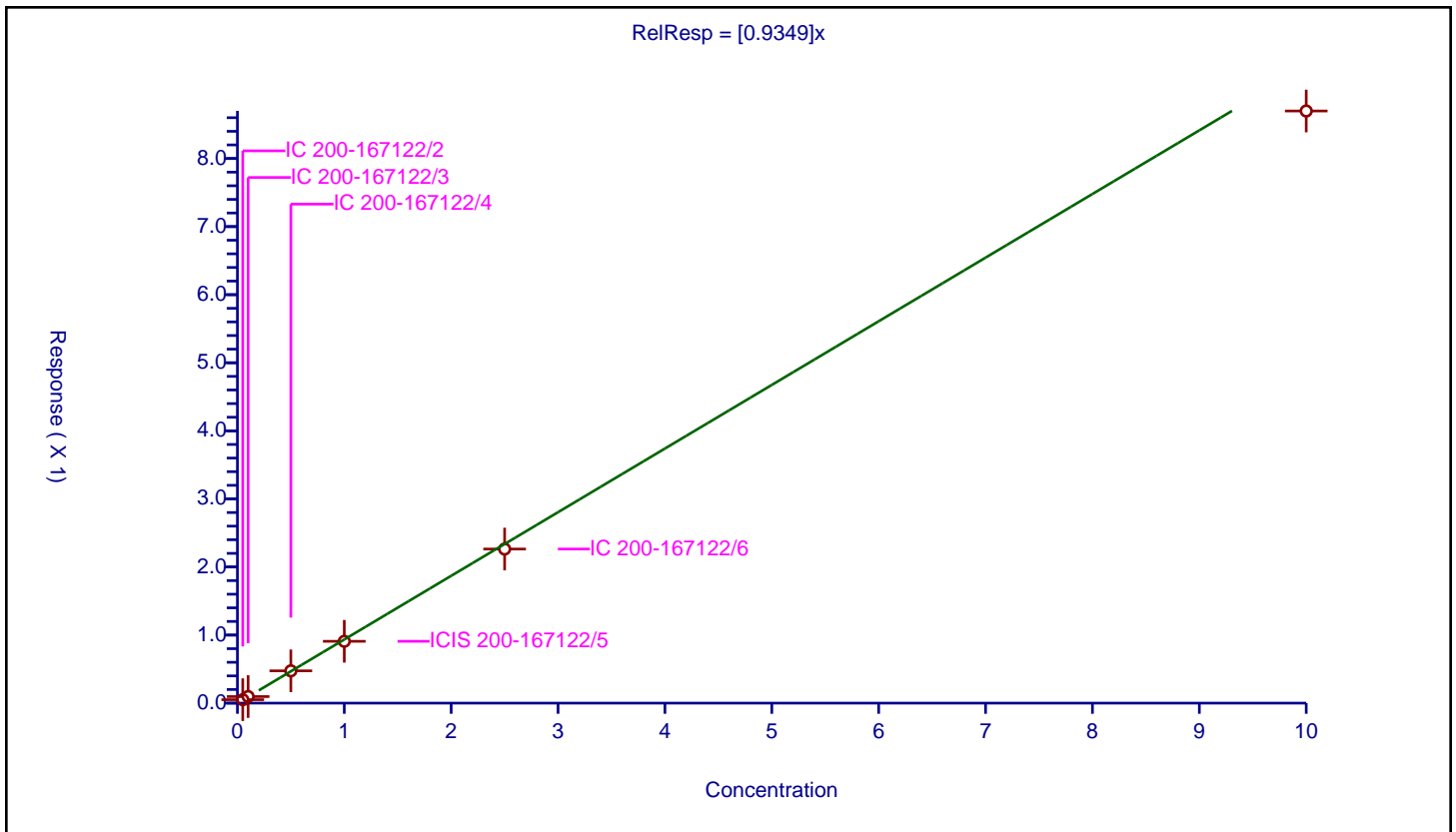
/ Perfluorobutanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9349

Error Coefficients	
Standard Error:	5130000
Relative Standard Error:	5.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.050563	1.25	1469031.0	1.011262	Y
2	IC 200-167122/3	0.1	0.096585	1.25	1623523.0	0.965847	Y
3	IC 200-167122/4	0.5	0.474365	1.25	1577761.0	0.948731	Y
4	ICIS 200-167122/5	1.0	0.908297	1.25	1610139.0	0.908297	Y
5	IC 200-167122/6	2.5	2.26348	1.25	1635314.0	0.905392	Y
6	IC 200-167122/7	10.0	8.698623	1.25	1579986.0	0.869862	Y



Calibration

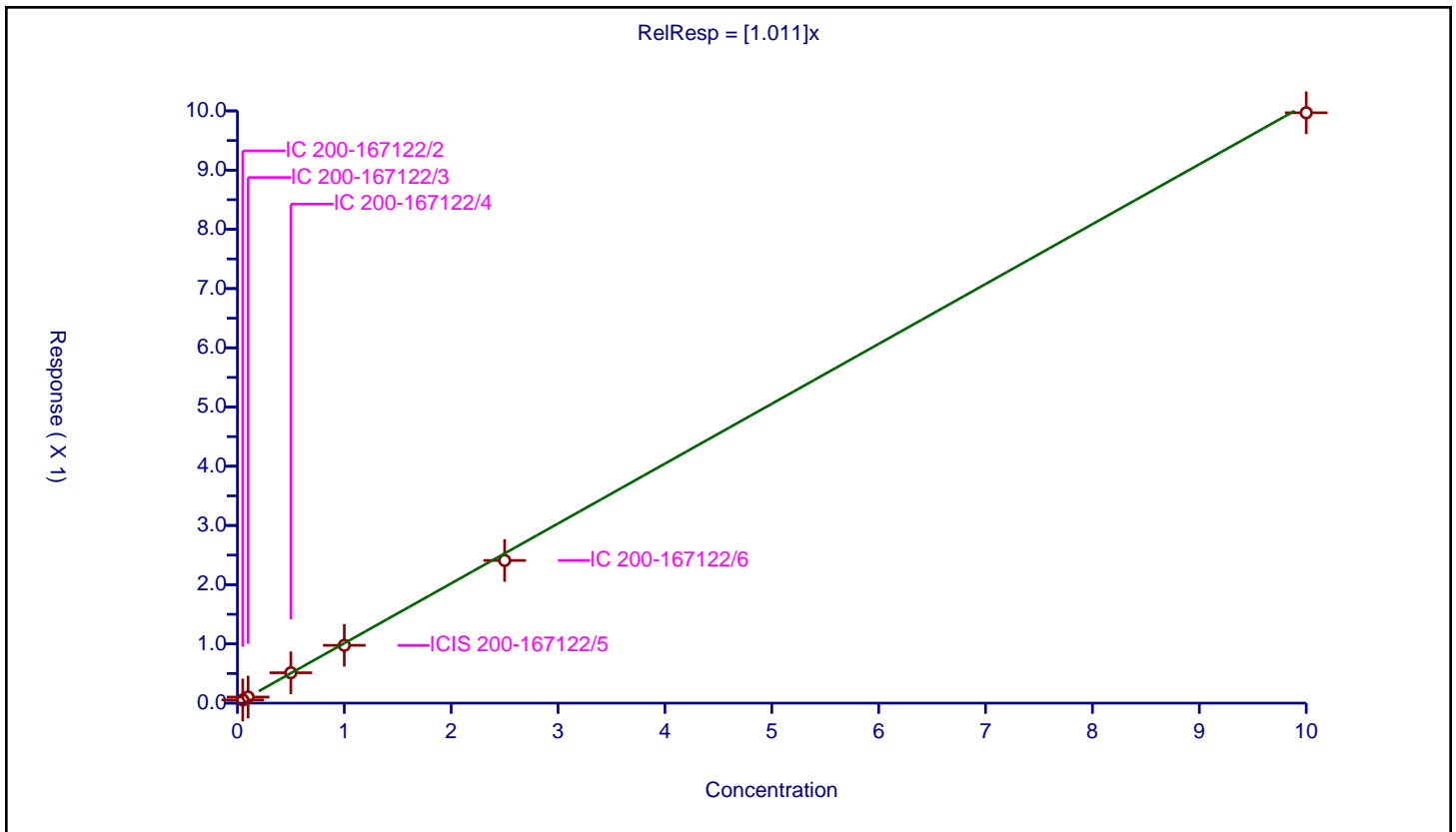
/ Perfluoropentanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.011

Error Coefficients	
Standard Error:	4160000
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 200-167122/2	0.05	0.053744	1.25	1084771.0	1.074881	Y
2	IC 200-167122/3	0.1	0.102849	1.25	1170979.0	1.028488	Y
3	IC 200-167122/4	0.5	0.51288	1.25	1216889.0	1.025759	Y
4	ICIS 200-167122/5	1.0	0.976002	1.25	1131413.0	0.976002	Y
5	IC 200-167122/6	2.5	2.40917	1.25	1171244.0	0.963668	Y
6	IC 200-167122/7	10.0	9.968032	1.25	1124095.0	0.996803	Y



Calibration

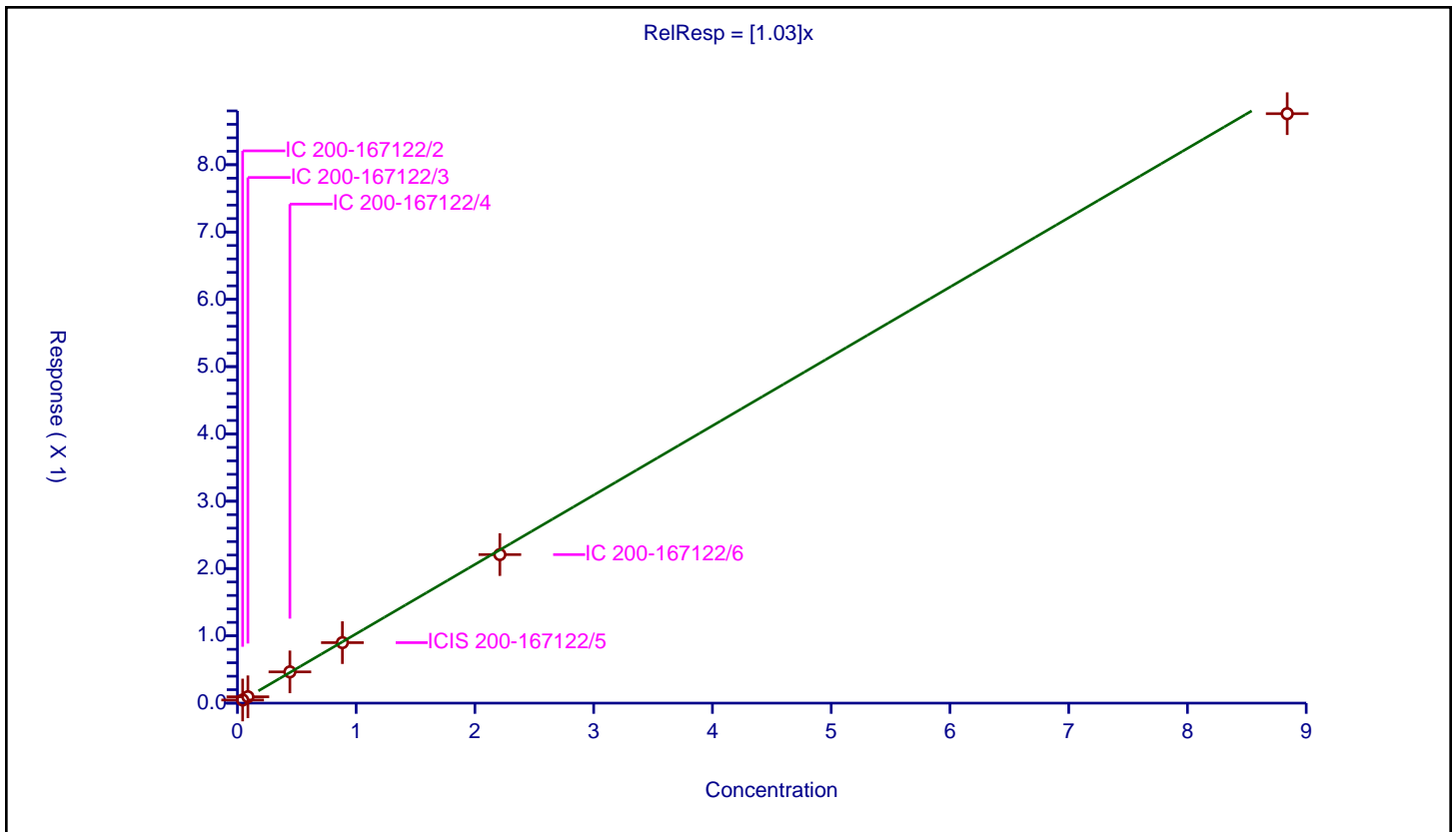
/ Perfluorobutanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.03

Error Coefficients	
Standard Error:	4770000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0442	0.046671	1.1625	1314200.0	1.055899	Y
2	IC 200-167122/3	0.0884	0.094471	1.1625	1312530.0	1.068674	Y
3	IC 200-167122/4	0.442	0.464568	1.1625	1346916.0	1.051059	Y
4	ICIS 200-167122/5	0.884	0.89881	1.1625	1308082.0	1.016754	Y
5	IC 200-167122/6	2.21	2.207188	1.1625	1361279.0	0.998728	Y
6	IC 200-167122/7	8.84	8.758525	1.1625	1366151.0	0.990783	Y



Calibration

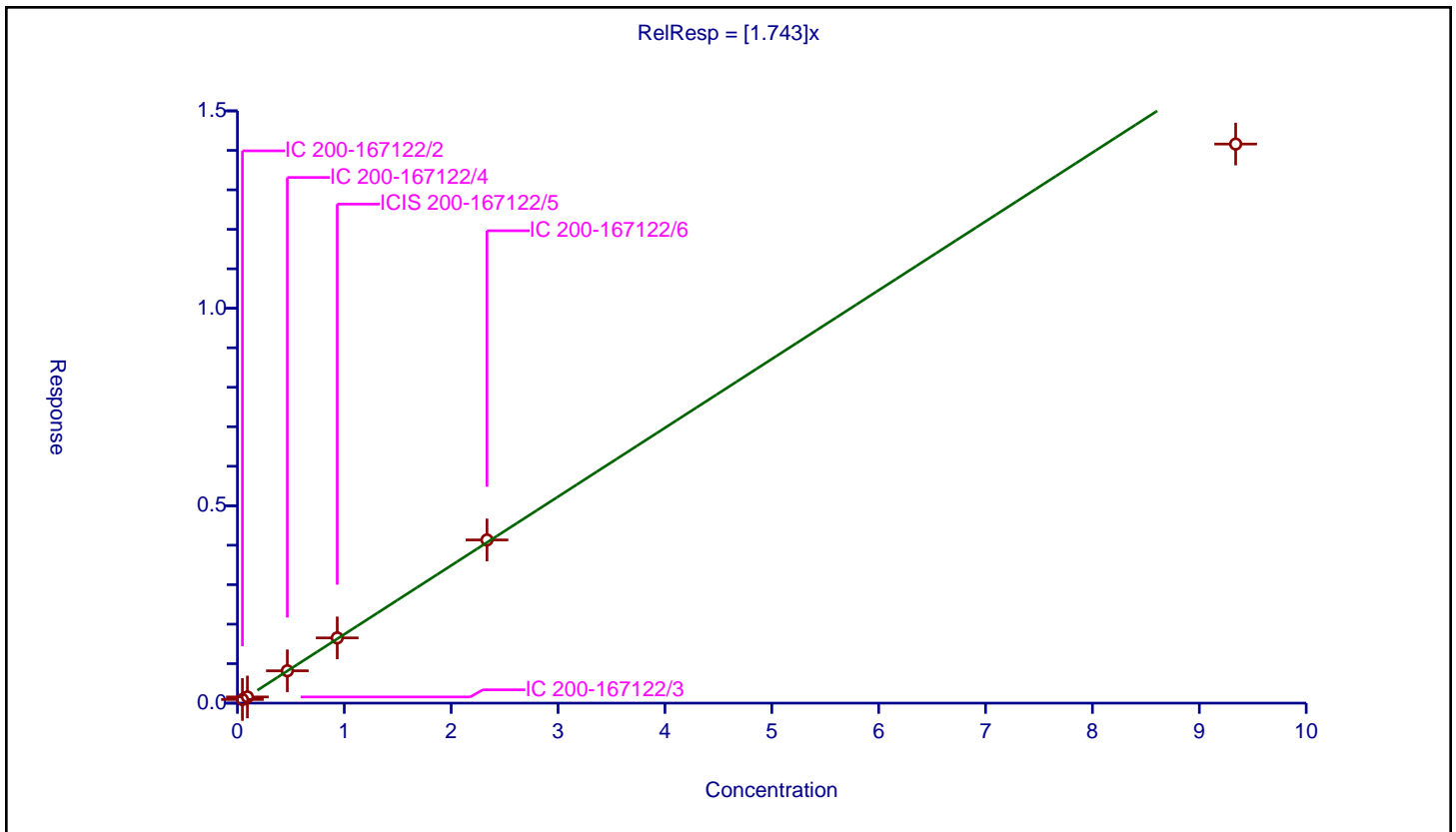
/ 1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.743

Error Coefficients	
Standard Error:	649000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0467	0.09194	1.1675	100293.0	1.968732	Y
2	IC 200-167122/3	0.0934	0.156891	1.1675	103786.0	1.679779	Y
3	IC 200-167122/4	0.467	0.819174	1.1675	100254.0	1.75412	Y
4	ICIS 200-167122/5	0.934	1.652312	1.1675	102031.0	1.76907	Y
5	IC 200-167122/6	2.335	4.133401	1.1675	102671.0	1.770193	Y
6	IC 200-167122/7	9.34	14.159887	1.1675	115000.0	1.516048	Y



Calibration

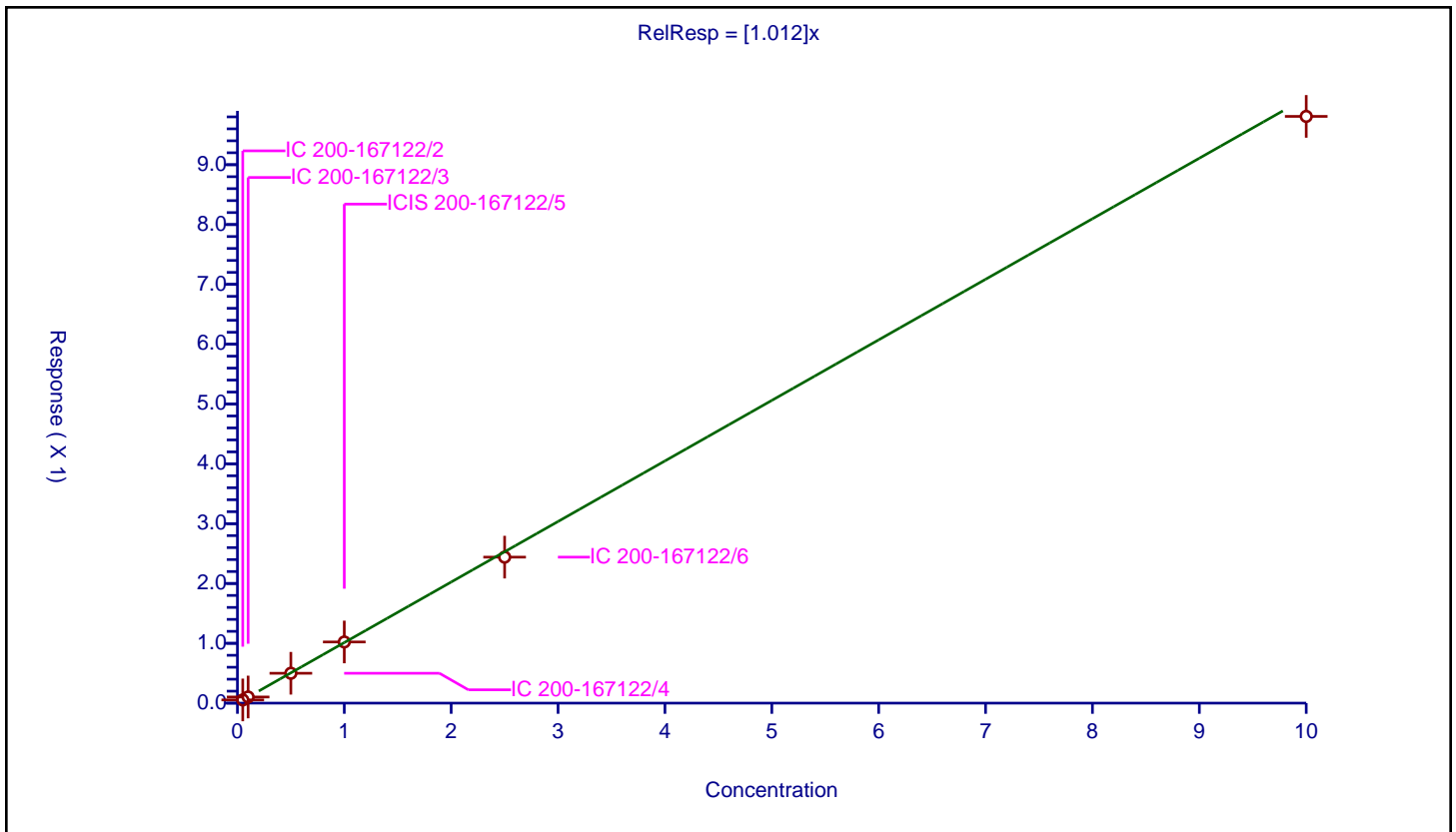
/ Perfluorohexanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.012

Error Coefficients	
Standard Error:	4490000
Relative Standard Error:	3.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.053498	1.25	1171151.0	1.069952	Y
2	IC 200-167122/3	0.1	0.102502	1.25	1279751.0	1.025024	Y
3	IC 200-167122/4	0.5	0.49923	1.25	1268386.0	0.99846	Y
4	ICIS 200-167122/5	1.0	1.022307	1.25	1245278.0	1.022307	Y
5	IC 200-167122/6	2.5	2.440404	1.25	1295153.0	0.976162	Y
6	IC 200-167122/7	10.0	9.807749	1.25	1229991.0	0.980775	Y



Calibration

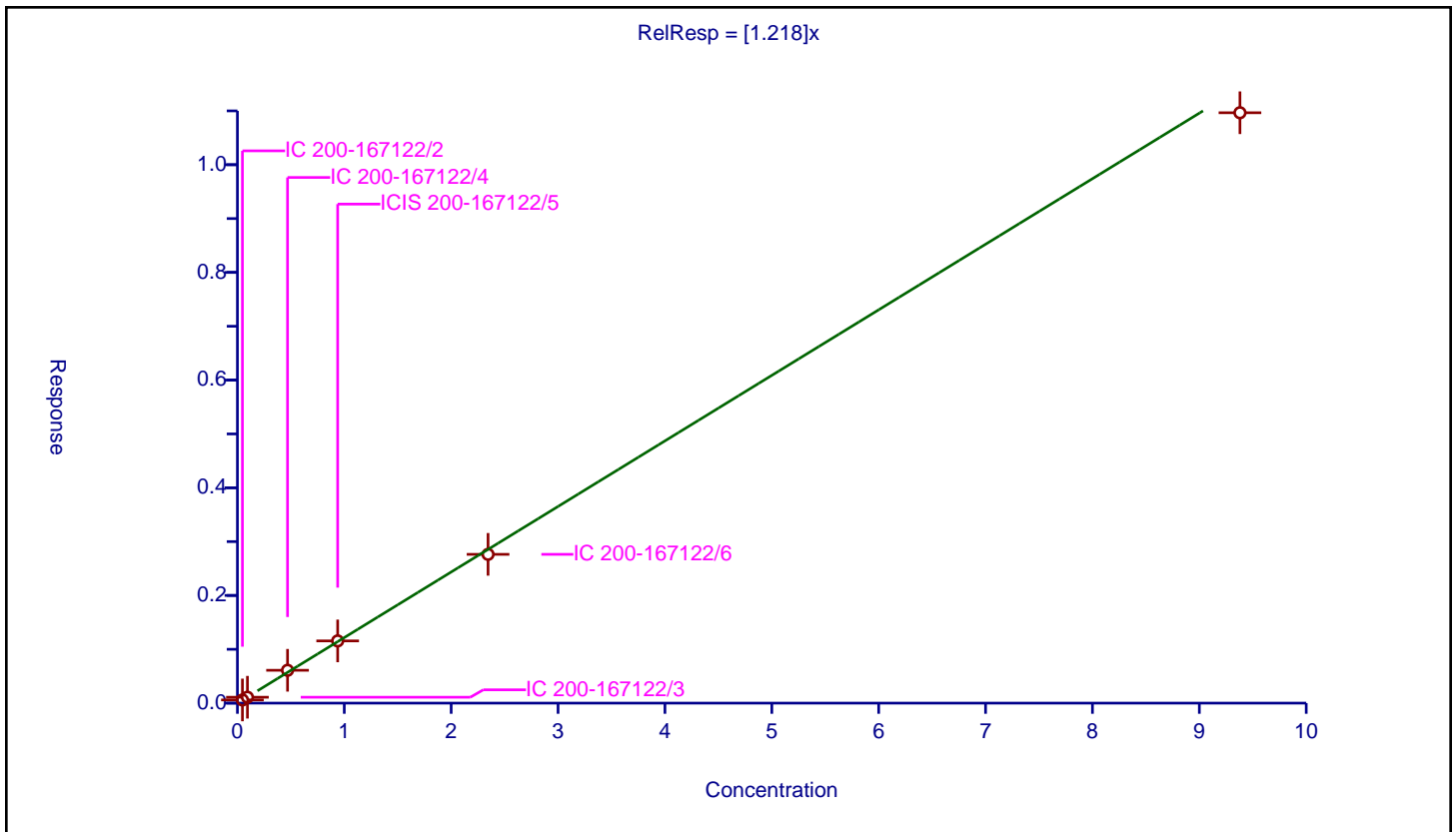
/ Perfluoropentanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.218

Error Coefficients	
Standard Error:	4570000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0469	0.058988	1.1825	1043277.0	1.25774	Y
2	IC 200-167122/3	0.0938	0.109432	1.1825	1091572.0	1.166649	Y
3	IC 200-167122/4	0.469	0.610403	1.1825	1027735.0	1.3015	Y
4	ICIS 200-167122/5	0.938	1.155591	1.1825	1032926.0	1.231974	Y
5	IC 200-167122/6	2.345	2.763341	1.1825	1065678.0	1.178397	Y
6	IC 200-167122/7	9.38	10.965144	1.1825	1062004.0	1.168992	Y



Calibration

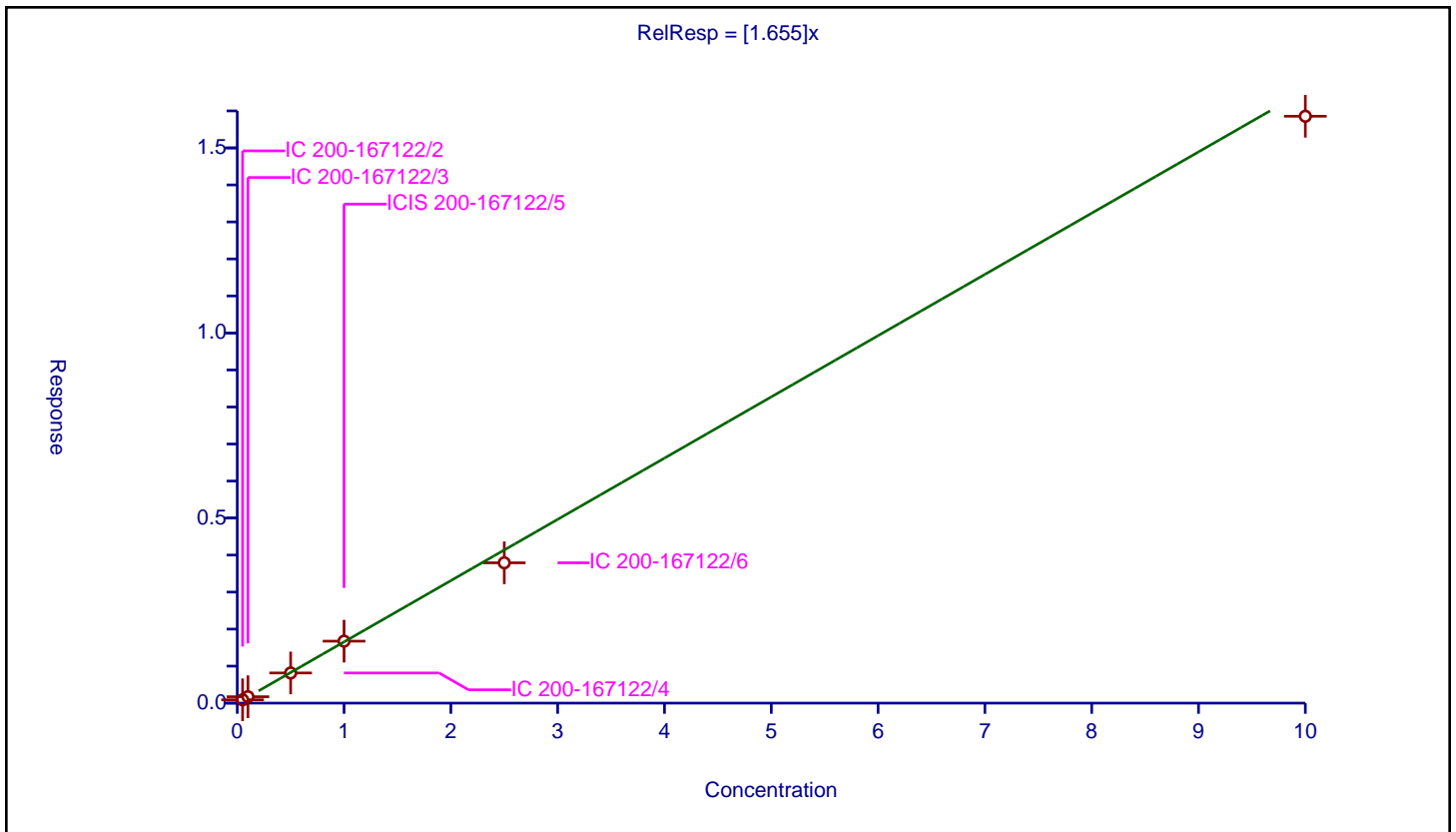
/ Perfluoro(2-propoxypropanoic) acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.655

Error Coefficients	
Standard Error:	821000
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 200-167122/2	0.05	0.089678	1.25	128711.0	1.793553	Y
2	IC 200-167122/3	0.1	0.172925	1.25	135232.0	1.72925	Y
3	IC 200-167122/4	0.5	0.814598	1.25	142848.0	1.629197	Y
4	ICIS 200-167122/5	1.0	1.674127	1.25	132814.0	1.674127	Y
5	IC 200-167122/6	2.5	3.79059	1.25	150007.0	1.516236	Y
6	IC 200-167122/7	10.0	15.855256	1.25	139372.0	1.585526	Y



Calibration

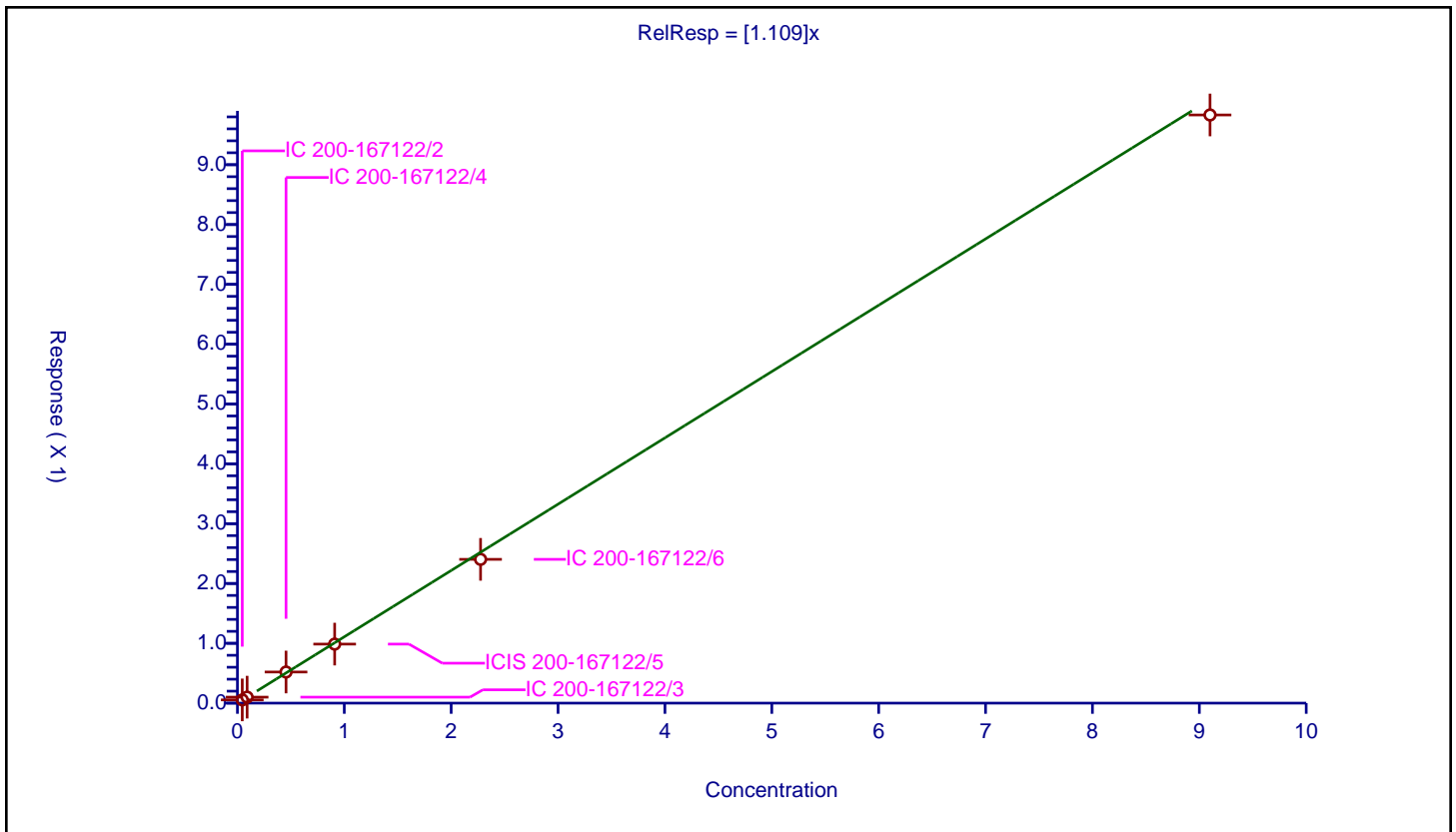
/ Perfluorohexanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.109

Error Coefficients	
Standard Error:	4090000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0455	0.054121	1.1825	1043277.0	1.189472	Y
2	IC 200-167122/3	0.091	0.099879	1.1825	1091572.0	1.097573	Y
3	IC 200-167122/4	0.455	0.520064	1.1825	1027735.0	1.142997	Y
4	ICIS 200-167122/5	0.91	0.986921	1.1825	1032926.0	1.084529	Y
5	IC 200-167122/6	2.275	2.403518	1.1825	1065678.0	1.056492	Y
6	IC 200-167122/7	9.1	9.831771	1.1825	1062004.0	1.080414	Y



Calibration

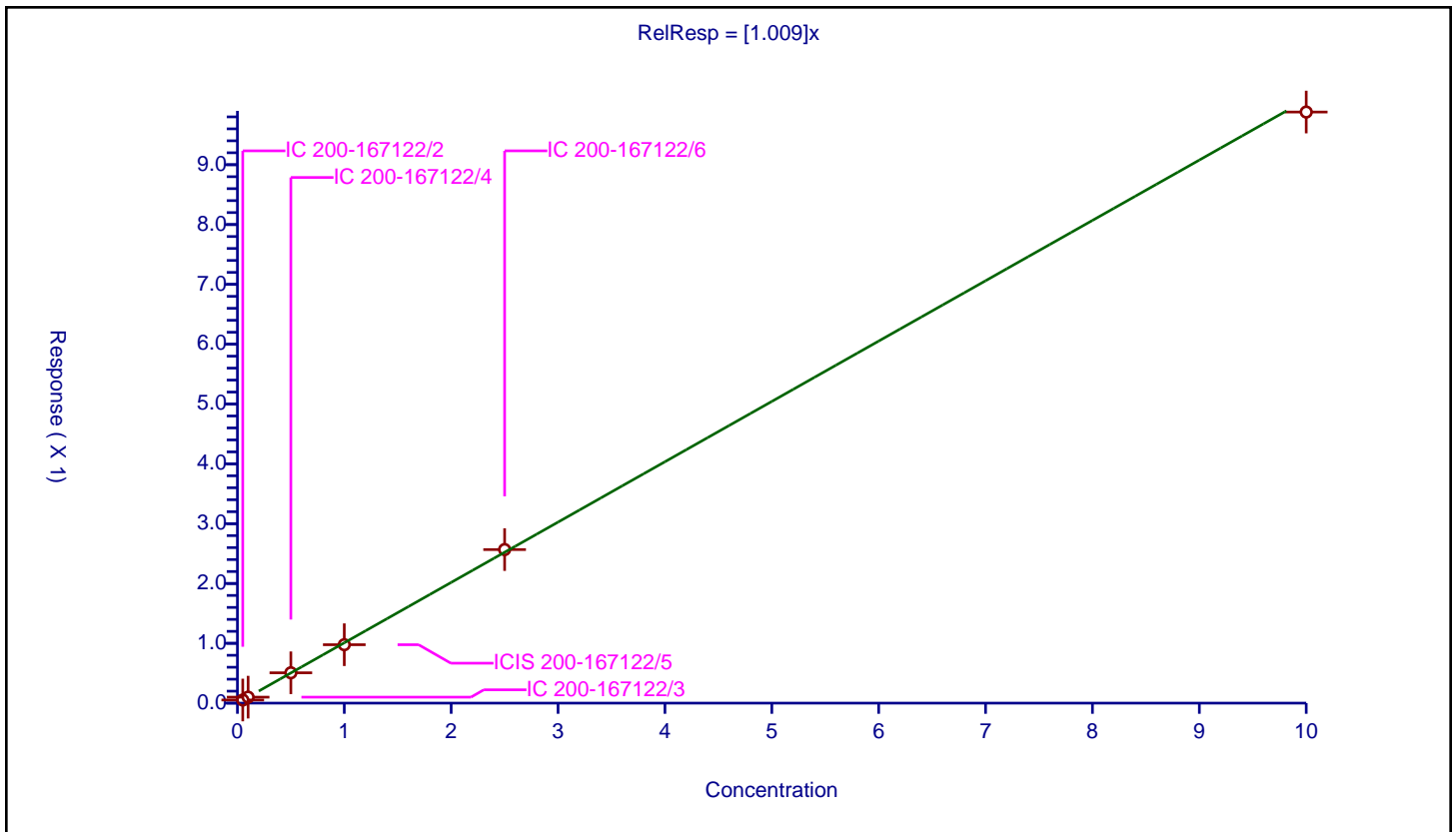
/ Perfluoroheptanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.009

Error Coefficients	
Standard Error:	4470000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.052256	1.25	1153303.0	1.045129	Y
2	IC 200-167122/3	0.1	0.100068	1.25	1321896.0	1.000684	Y
3	IC 200-167122/4	0.5	0.507282	1.25	1253443.0	1.014563	Y
4	ICIS 200-167122/5	1.0	0.976727	1.25	1279392.0	0.976727	Y
5	IC 200-167122/6	2.5	2.566956	1.25	1267167.0	1.026783	Y
6	IC 200-167122/7	10.0	9.88069	1.25	1212382.0	0.988069	Y



Calibration

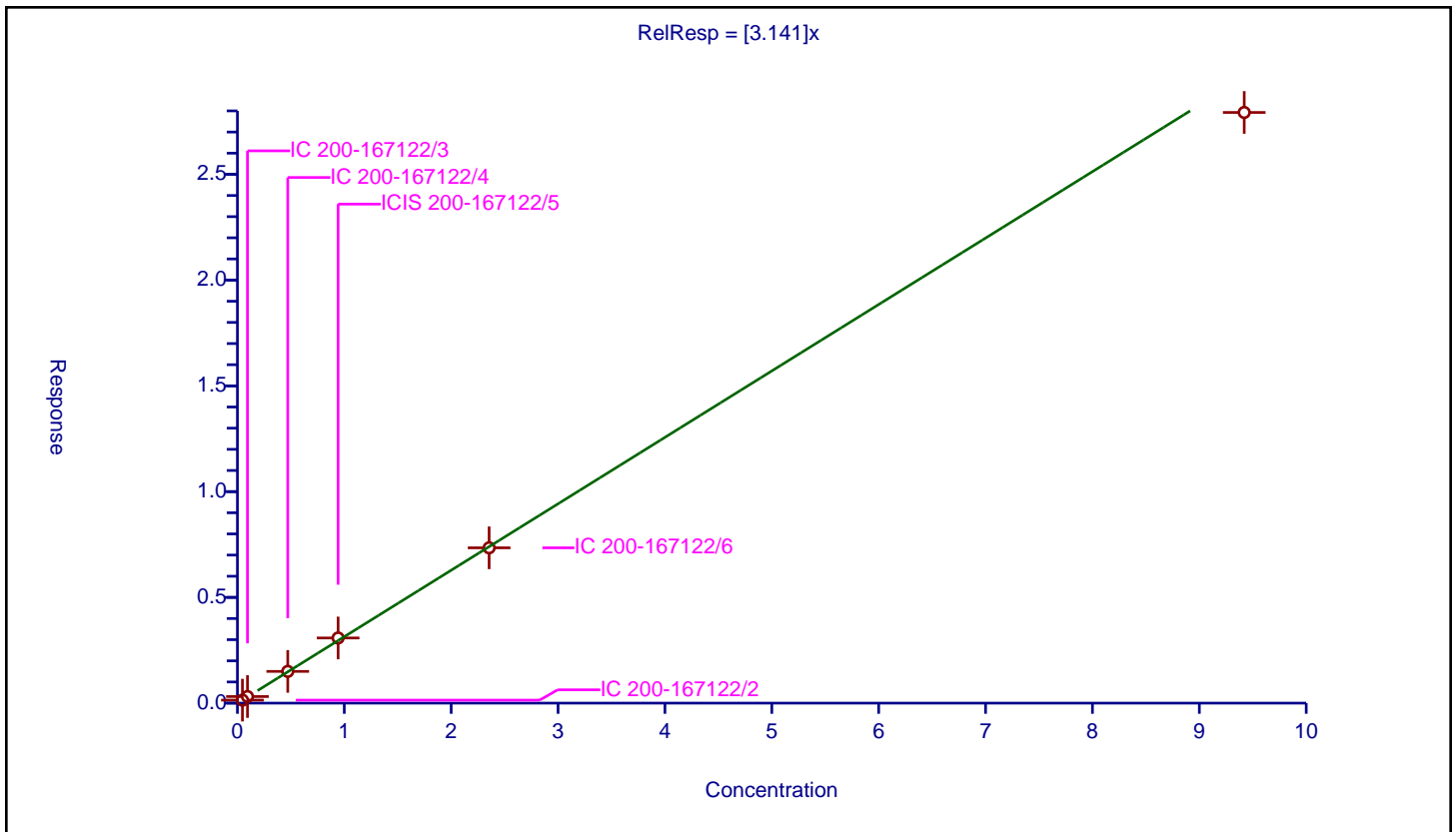
/ DONA

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.141

Error Coefficients	
Standard Error:	8290000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0471	0.141483	1.195	762787.0	3.003892	Y
2	IC 200-167122/3	0.0942	0.311207	1.195	775404.0	3.303683	Y
3	IC 200-167122/4	0.471	1.500674	1.195	779486.0	3.186145	Y
4	ICIS 200-167122/5	0.942	3.080719	1.195	748644.0	3.270403	Y
5	IC 200-167122/6	2.355	7.342737	1.195	785655.0	3.117935	Y
6	IC 200-167122/7	9.42	27.926161	1.195	760503.0	2.964561	Y



Calibration

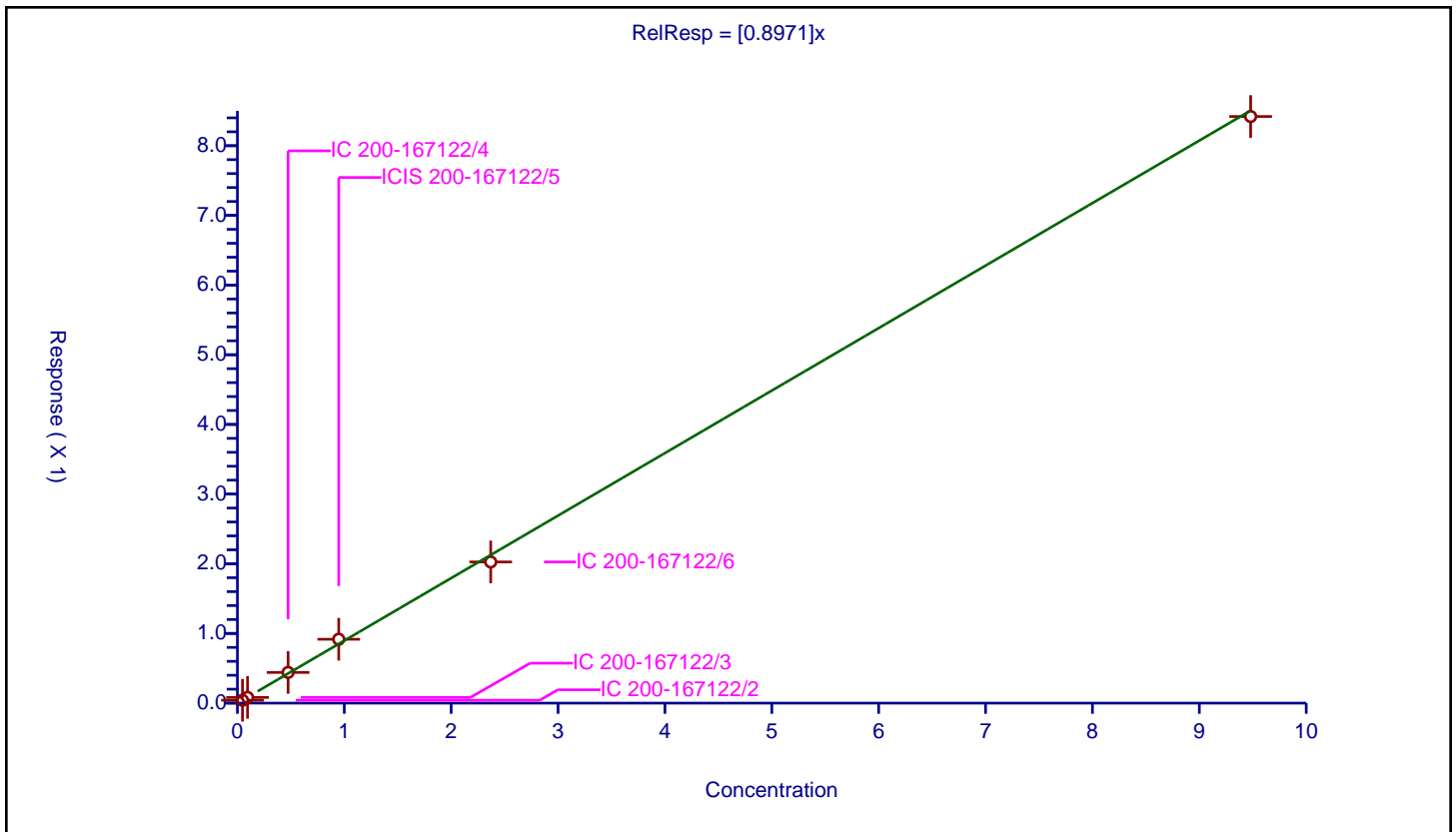
/ 1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8971

Error Coefficients	
Standard Error:	475000
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 200-167122/2	0.0474	0.041561	1.1875	128347.0	0.876818	Y
2	IC 200-167122/3	0.0948	0.08213	1.1875	149981.0	0.86635	Y
3	IC 200-167122/4	0.474	0.440525	1.1875	138230.0	0.929378	Y
4	ICIS 200-167122/5	0.948	0.916668	1.1875	135367.0	0.96695	Y
5	IC 200-167122/6	2.37	2.02626	1.1875	145555.0	0.854962	Y
6	IC 200-167122/7	9.48	8.419386	1.1875	144796.0	0.888121	Y



Calibration

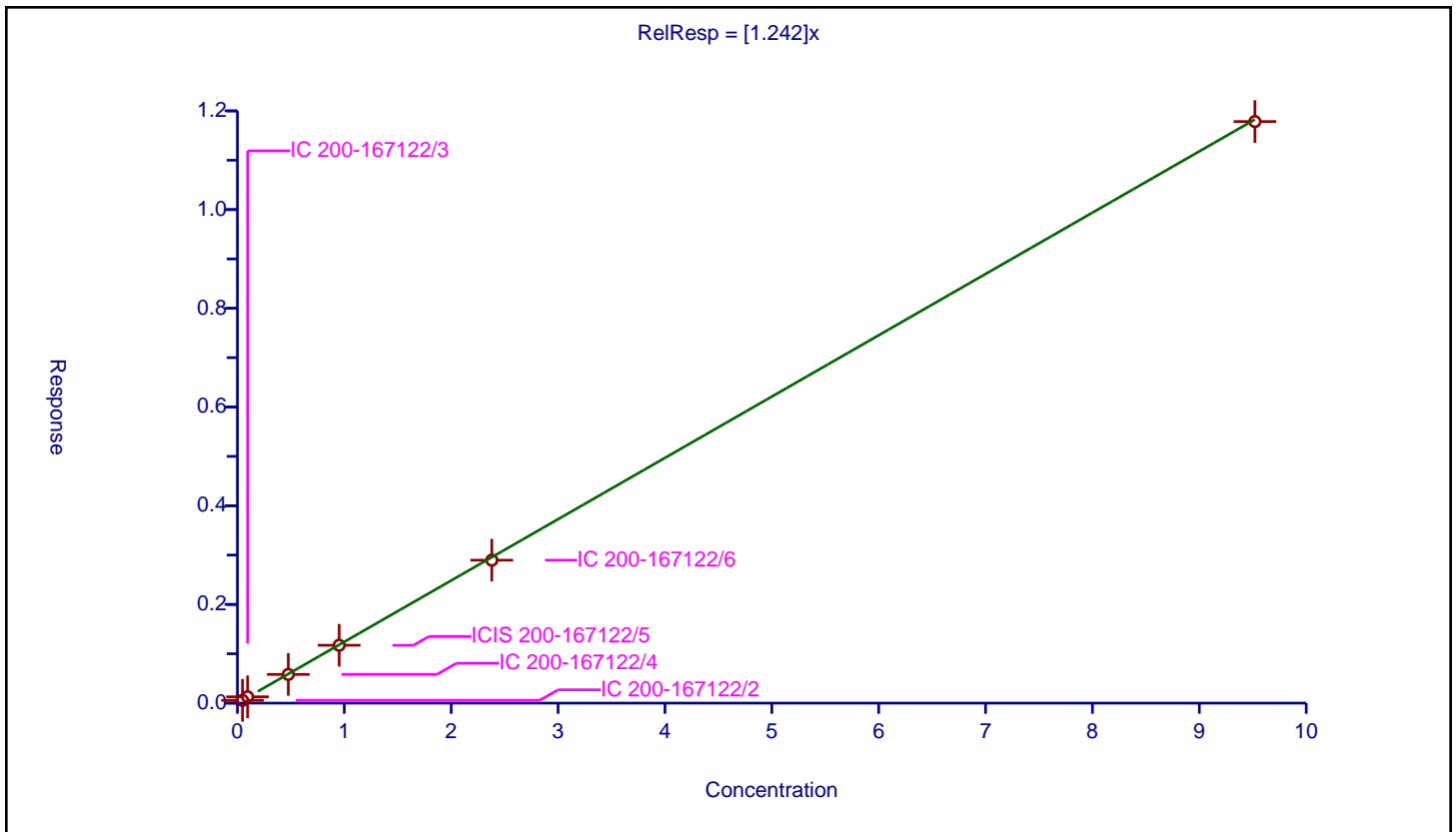
/ Perfluoroheptanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.242

Error Coefficients	
Standard Error:	3480000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0476	0.056955	1.195	762787.0	1.196525	Y
2	IC 200-167122/3	0.0952	0.128395	1.195	775404.0	1.348685	Y
3	IC 200-167122/4	0.476	0.58159	1.195	779486.0	1.221827	Y
4	ICIS 200-167122/5	0.952	1.172482	1.195	748644.0	1.231599	Y
5	IC 200-167122/6	2.38	2.896442	1.195	785655.0	1.216992	Y
6	IC 200-167122/7	9.52	11.783898	1.195	760503.0	1.237804	Y



Calibration

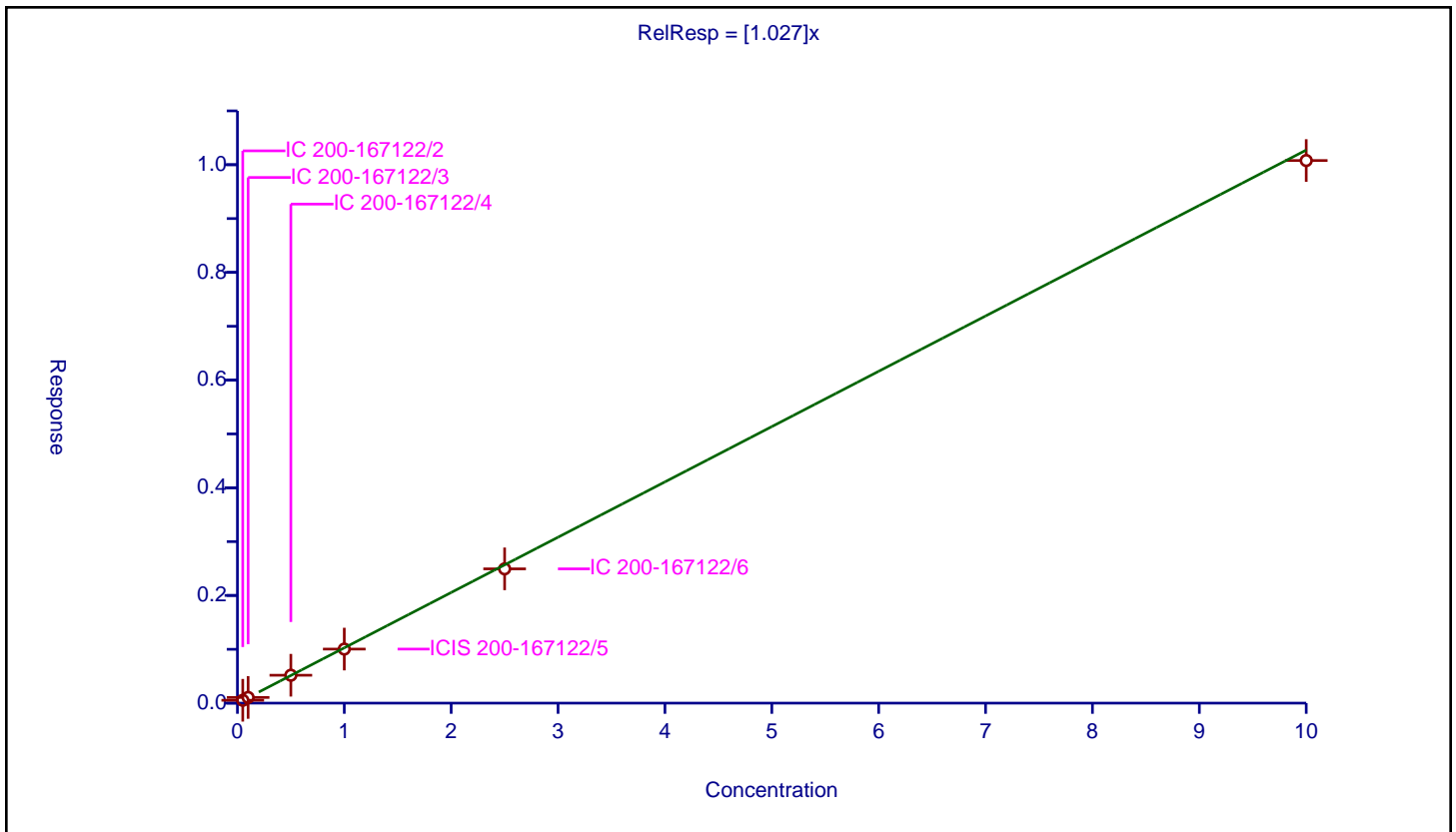
/ Perfluorooctanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.027

Error Coefficients	
Standard Error:	4630000
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.053126	1.25	1139763.0	1.062524	Y
2	IC 200-167122/3	0.1	0.10552	1.25	1289990.0	1.055202	Y
3	IC 200-167122/4	0.5	0.51817	1.25	1283177.0	1.03634	Y
4	ICIS 200-167122/5	1.0	1.003788	1.25	1323677.0	1.003788	Y
5	IC 200-167122/6	2.5	2.494119	1.25	1321432.0	0.997648	Y
6	IC 200-167122/7	10.0	10.077798	1.25	1231684.0	1.00778	Y



Calibration

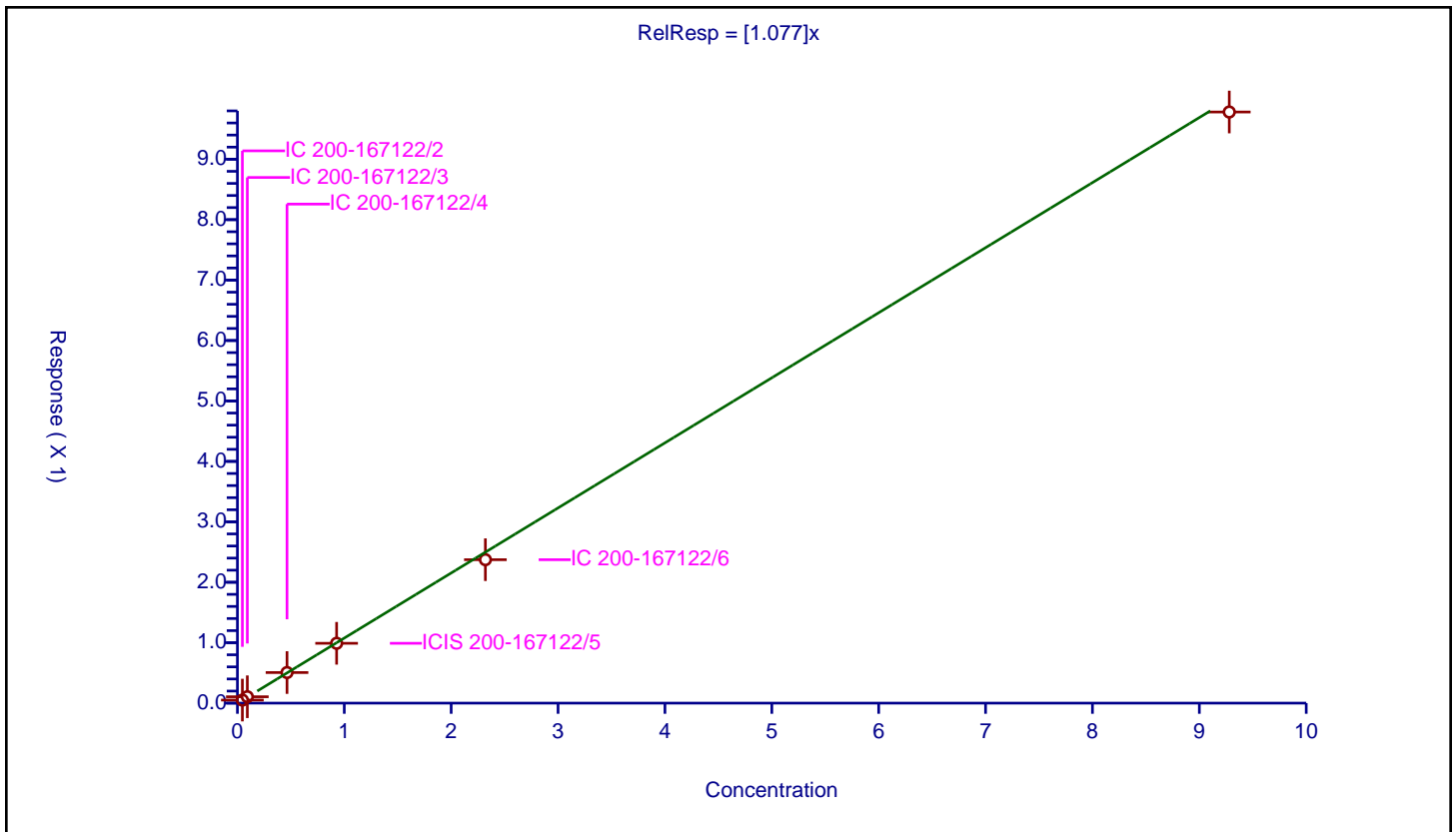
/ Perfluorooctanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.077

Error Coefficients	
Standard Error:	2890000
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 200-167122/2	0.0464	0.050466	1.195	762787.0	1.087622	Y
2	IC 200-167122/3	0.0928	0.10554	1.195	775404.0	1.137282	Y
3	IC 200-167122/4	0.464	0.506057	1.195	779486.0	1.090641	Y
4	ICIS 200-167122/5	0.928	0.990266	1.195	748644.0	1.067097	Y
5	IC 200-167122/6	2.32	2.373536	1.195	785655.0	1.023076	Y
6	IC 200-167122/7	9.28	9.781648	1.195	760503.0	1.054057	Y



Calibration

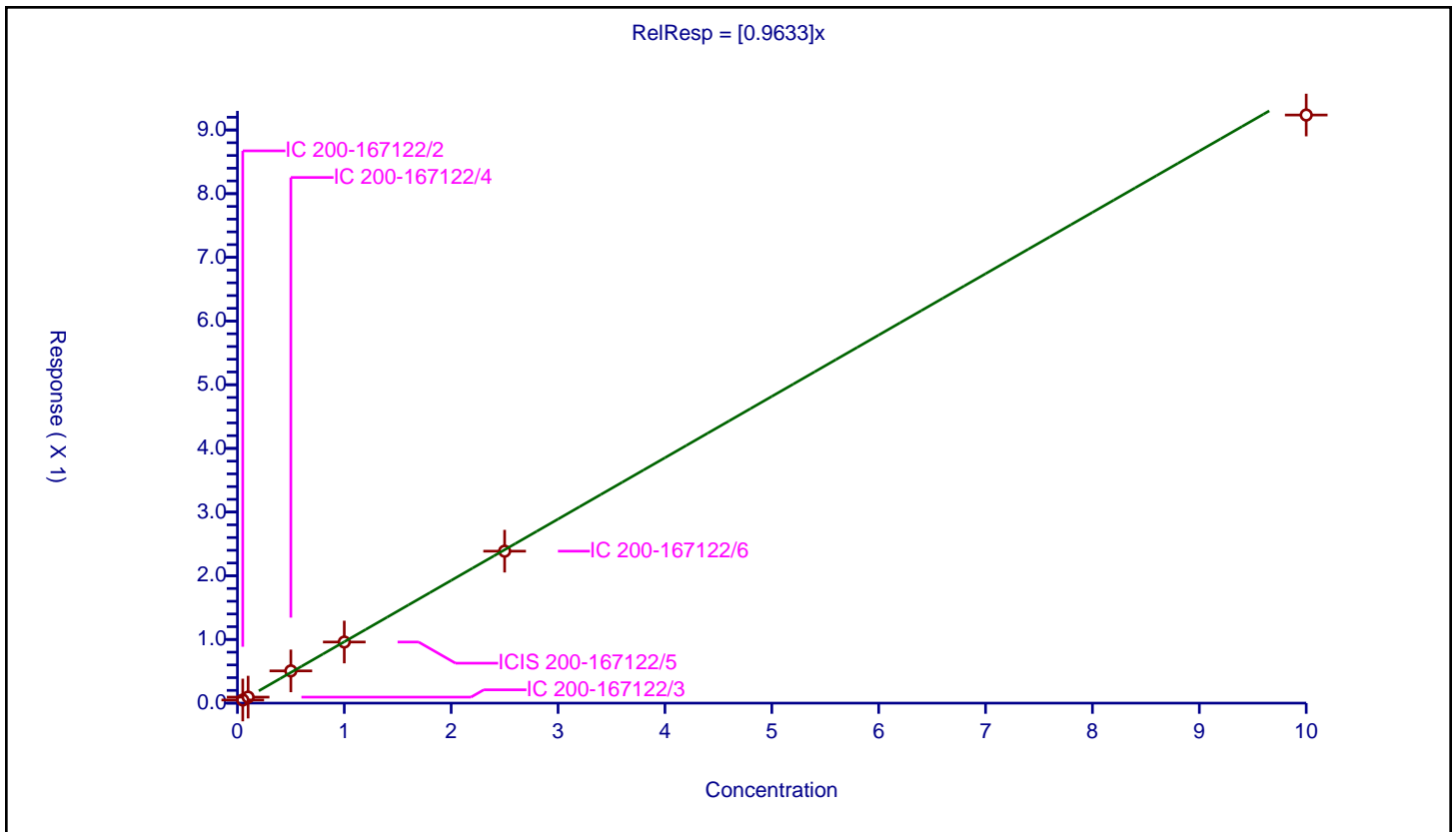
/ Perfluorononanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9633

Error Coefficients	
Standard Error:	4020000
Relative Standard Error:	3.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.049347	1.25	1060591.0	0.98695	Y
2	IC 200-167122/3	0.1	0.094236	1.25	1207102.0	0.94236	Y
3	IC 200-167122/4	0.5	0.506468	1.25	1194826.0	1.012936	Y
4	ICIS 200-167122/5	1.0	0.959489	1.25	1180302.0	0.959489	Y
5	IC 200-167122/6	2.5	2.386216	1.25	1175729.0	0.954487	Y
6	IC 200-167122/7	10.0	9.235177	1.25	1169588.0	0.923518	Y



Calibration

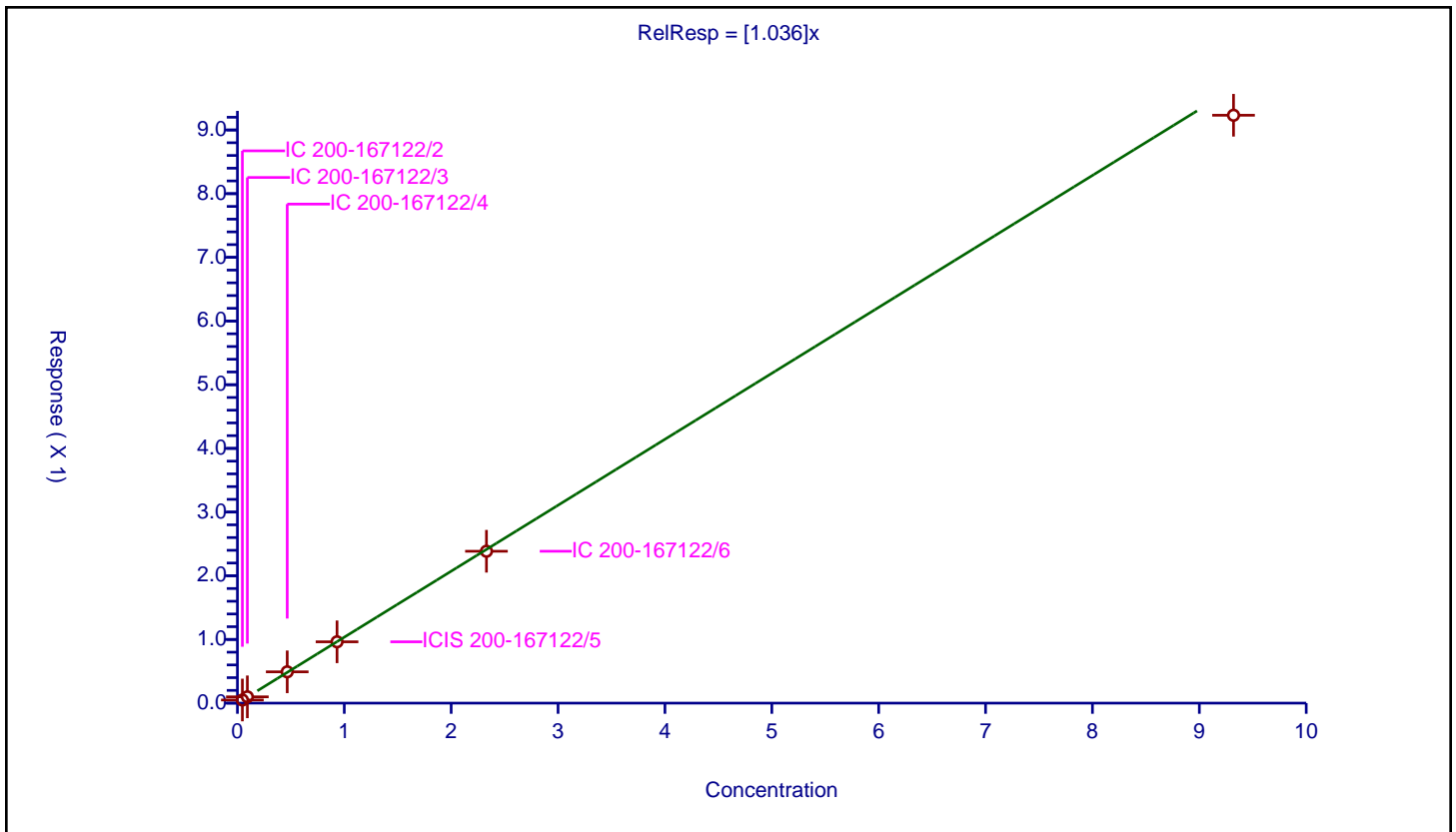
/ 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.036

Error Coefficients	
Standard Error:	2740000
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 200-167122/2	0.0466	0.048948	1.195	762787.0	1.050377	Y
2	IC 200-167122/3	0.0932	0.099024	1.195	775404.0	1.062488	Y
3	IC 200-167122/4	0.466	0.491542	1.195	779486.0	1.054812	Y
4	ICIS 200-167122/5	0.932	0.962916	1.195	748644.0	1.033172	Y
5	IC 200-167122/6	2.33	2.384835	1.195	785655.0	1.023534	Y
6	IC 200-167122/7	9.32	9.231306	1.195	760503.0	0.990484	Y



Calibration

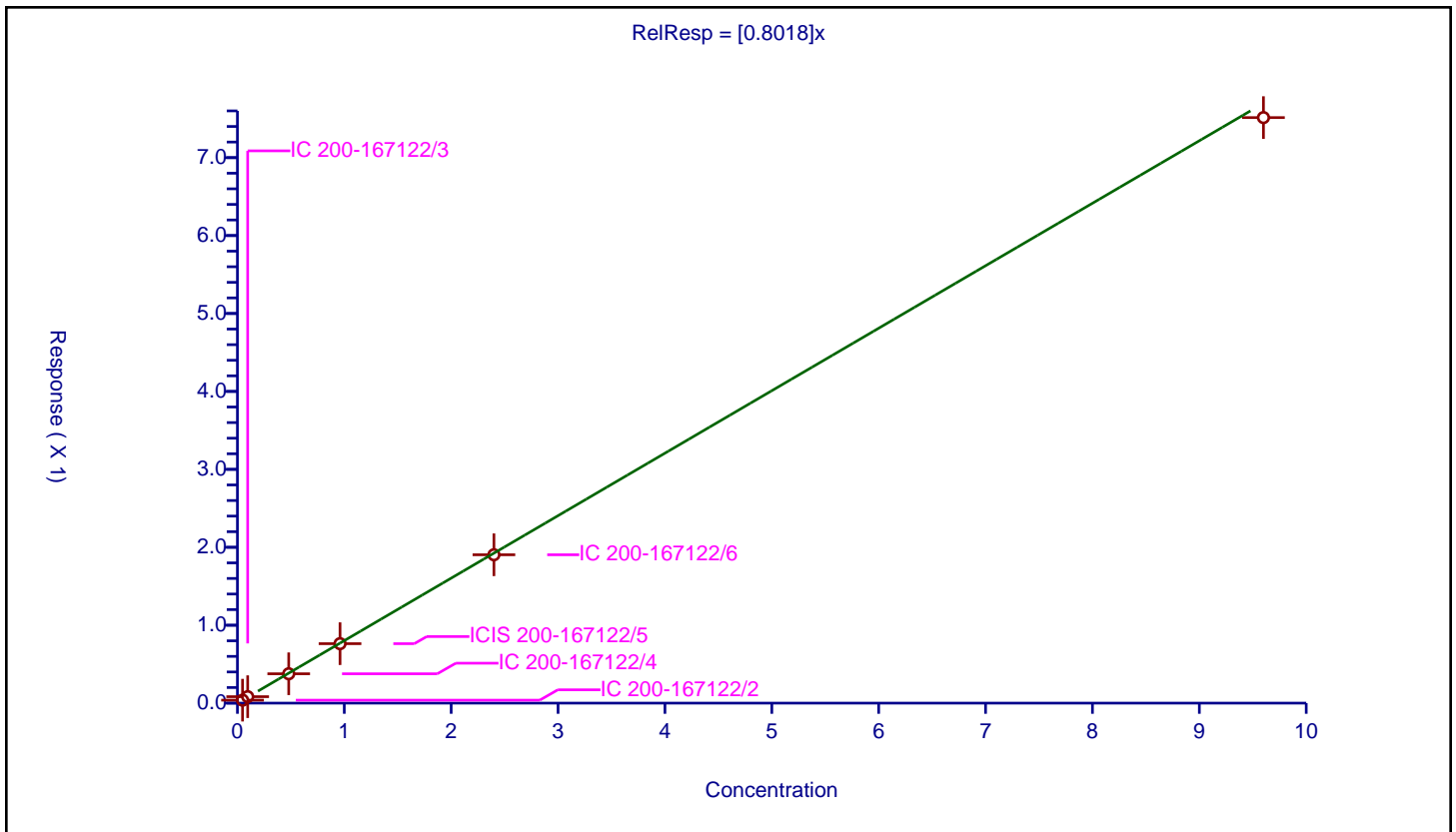
/ Perfluorononanesulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8018

Error Coefficients	
Standard Error:	2220000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.048	0.038089	1.195	762787.0	0.793527	Y
2	IC 200-167122/3	0.096	0.08273	1.195	775404.0	0.861766	Y
3	IC 200-167122/4	0.48	0.376679	1.195	779486.0	0.784749	Y
4	ICIS 200-167122/5	0.96	0.763183	1.195	748644.0	0.794982	Y
5	IC 200-167122/6	2.4	1.903977	1.195	785655.0	0.793324	Y
6	IC 200-167122/7	9.6	7.514027	1.195	760503.0	0.782711	Y



Calibration

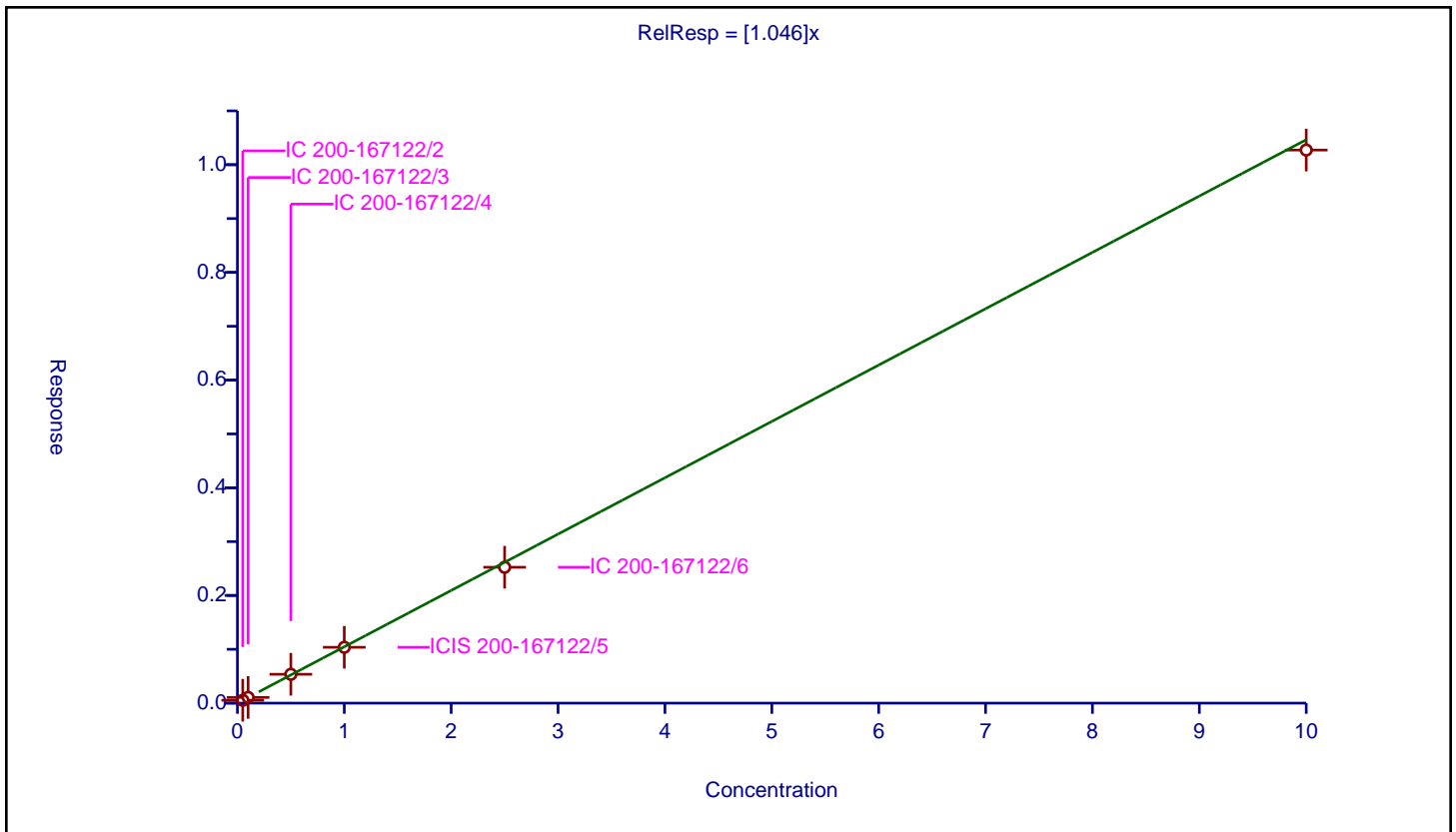
/ Perfluorodecanoic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.046

Error Coefficients	
Standard Error:	3850000
Relative Standard Error:	2.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.053573	1.25	913502.0	1.071454	Y
2	IC 200-167122/3	0.1	0.106127	1.25	1042841.0	1.061272	Y
3	IC 200-167122/4	0.5	0.536051	1.25	1062710.0	1.072101	Y
4	ICIS 200-167122/5	1.0	1.037168	1.25	1054090.0	1.037168	Y
5	IC 200-167122/6	2.5	2.523417	1.25	1051640.0	1.009367	Y
6	IC 200-167122/7	10.0	10.27231	1.25	1007790.0	1.027231	Y



Calibration

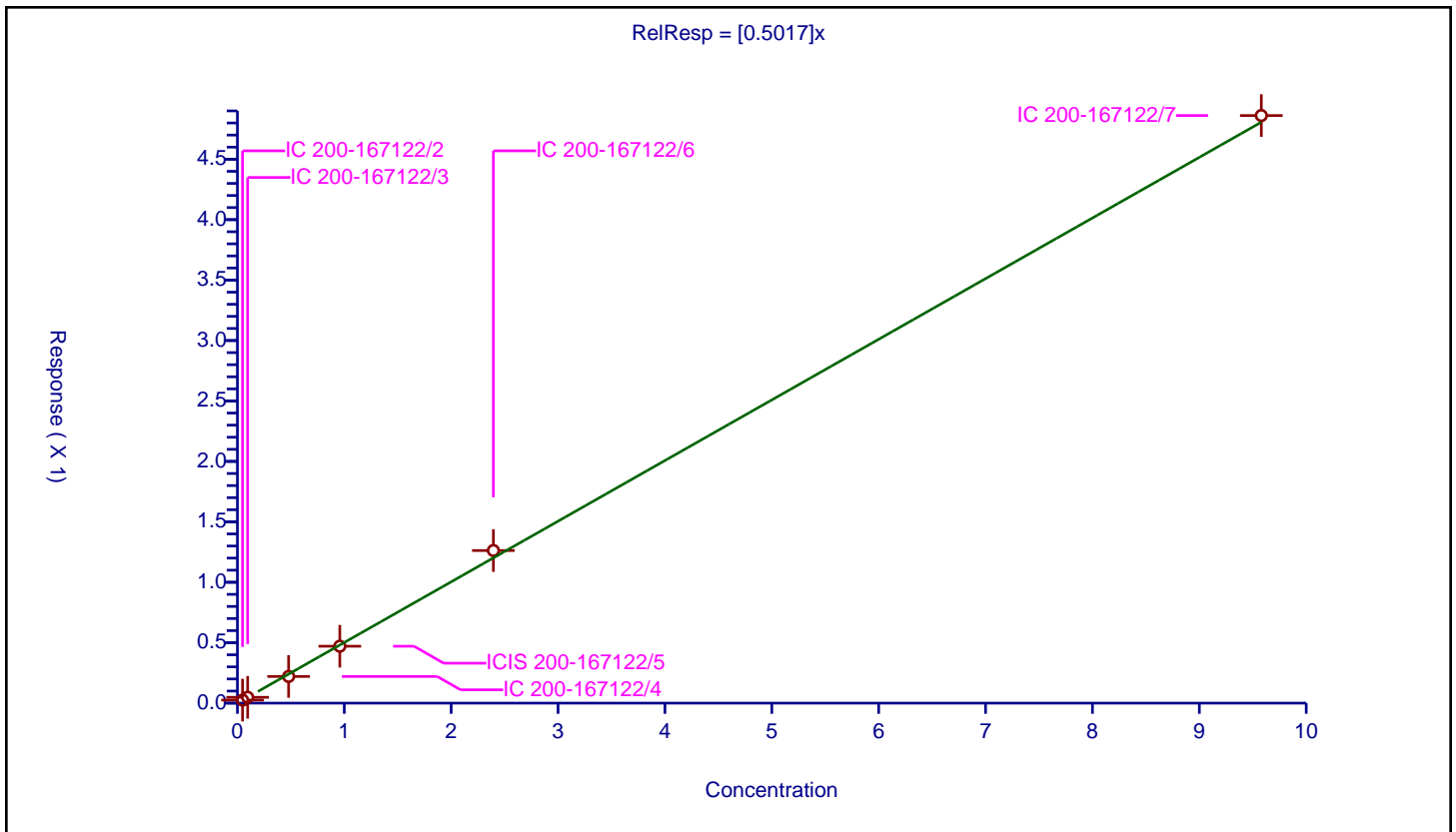
/ 1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.5017

Error Coefficients	
Standard Error:	280000
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 200-167122/2	0.0479	0.024945	1.1975	132162.0	0.520762	Y
2	IC 200-167122/3	0.0958	0.048176	1.1975	146209.0	0.502876	Y
3	IC 200-167122/4	0.479	0.220688	1.1975	145607.0	0.460726	Y
4	ICIS 200-167122/5	0.958	0.47076	1.1975	155299.0	0.491399	Y
5	IC 200-167122/6	2.395	1.262635	1.1975	143237.0	0.527196	Y
6	IC 200-167122/7	9.58	4.861489	1.1975	148814.0	0.507462	Y



Calibration

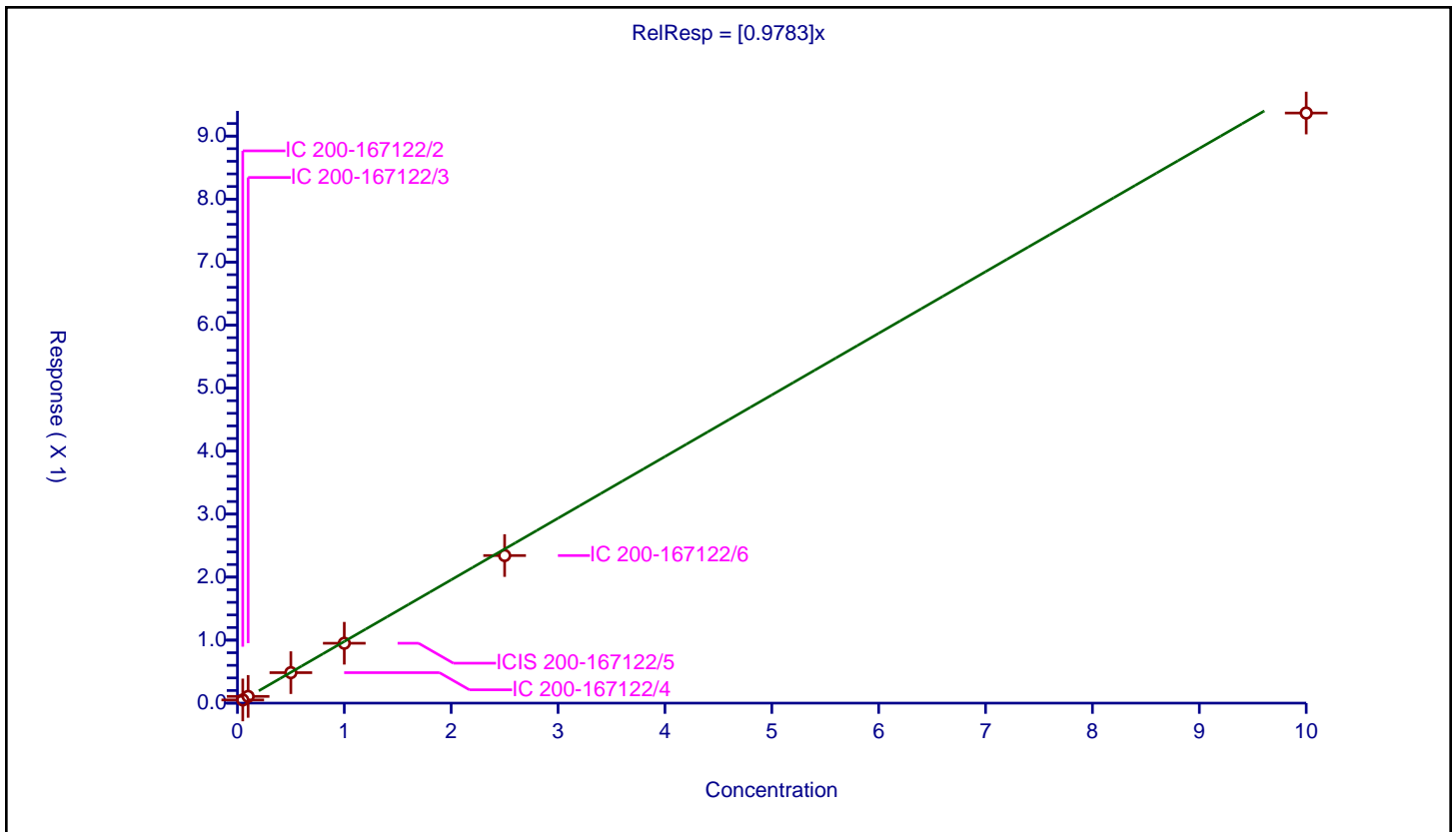
/ Perfluorooctanesulfonamide

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9783

Error Coefficients	
Standard Error:	5000000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.05059	1.25	1402238.0	1.011793	Y
2	IC 200-167122/3	0.1	0.106587	1.25	1431417.0	1.065867	Y
3	IC 200-167122/4	0.5	0.483958	1.25	1459190.0	0.967915	Y
4	ICIS 200-167122/5	1.0	0.950453	1.25	1448161.0	0.950453	Y
5	IC 200-167122/6	2.5	2.3425	1.25	1456144.0	0.937	Y
6	IC 200-167122/7	10.0	9.366289	1.25	1437435.0	0.936629	Y



Calibration

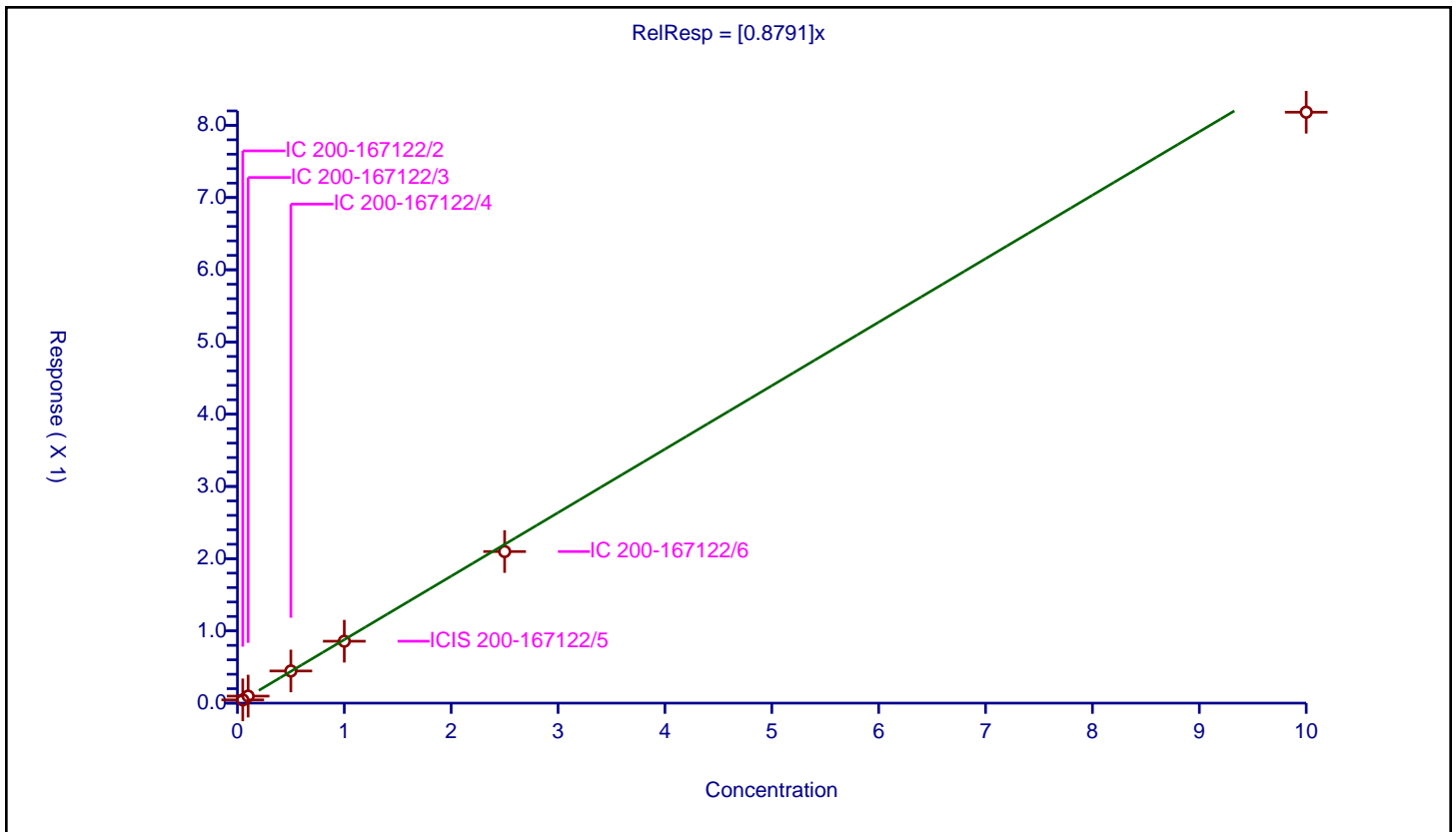
/ N-methylperfluorooctanesulfonamidoacetic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8791

Error Coefficients	
Standard Error:	235000
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 200-167122/2	0.05	0.044783	1.25	60151.0	0.895663	Y
2	IC 200-167122/3	0.1	0.097309	1.25	66849.0	0.973089	Y
3	IC 200-167122/4	0.5	0.445423	1.25	67986.0	0.890845	Y
4	ICIS 200-167122/5	1.0	0.857335	1.25	68554.0	0.857335	Y
5	IC 200-167122/6	2.5	2.098645	1.25	73582.0	0.839458	Y
6	IC 200-167122/7	10.0	8.18193	1.25	77541.0	0.818193	Y



Calibration

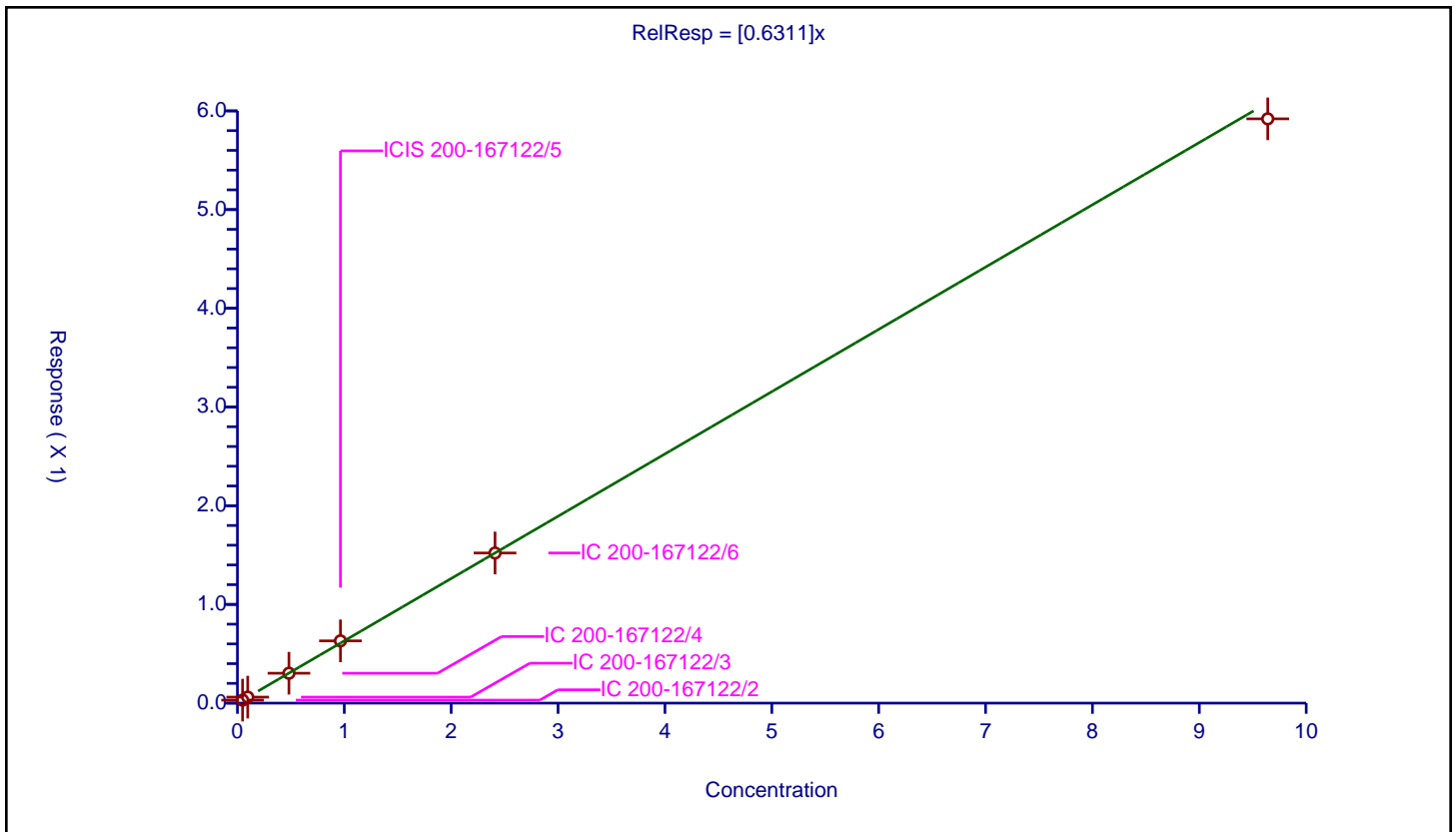
/ Perfluorodecanesulfonic acid

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.6311

Error Coefficients	
Standard Error:	1750000
Relative Standard Error:	2.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0482	0.030305	1.195	762787.0	0.62873	Y
2	IC 200-167122/3	0.0964	0.060725	1.195	775404.0	0.62993	Y
3	IC 200-167122/4	0.482	0.302915	1.195	779486.0	0.628453	Y
4	ICIS 200-167122/5	0.964	0.630684	1.195	748644.0	0.654236	Y
5	IC 200-167122/6	2.41	1.520902	1.195	785655.0	0.63108	Y
6	IC 200-167122/7	9.64	5.9196	1.195	760503.0	0.614066	Y



Calibration

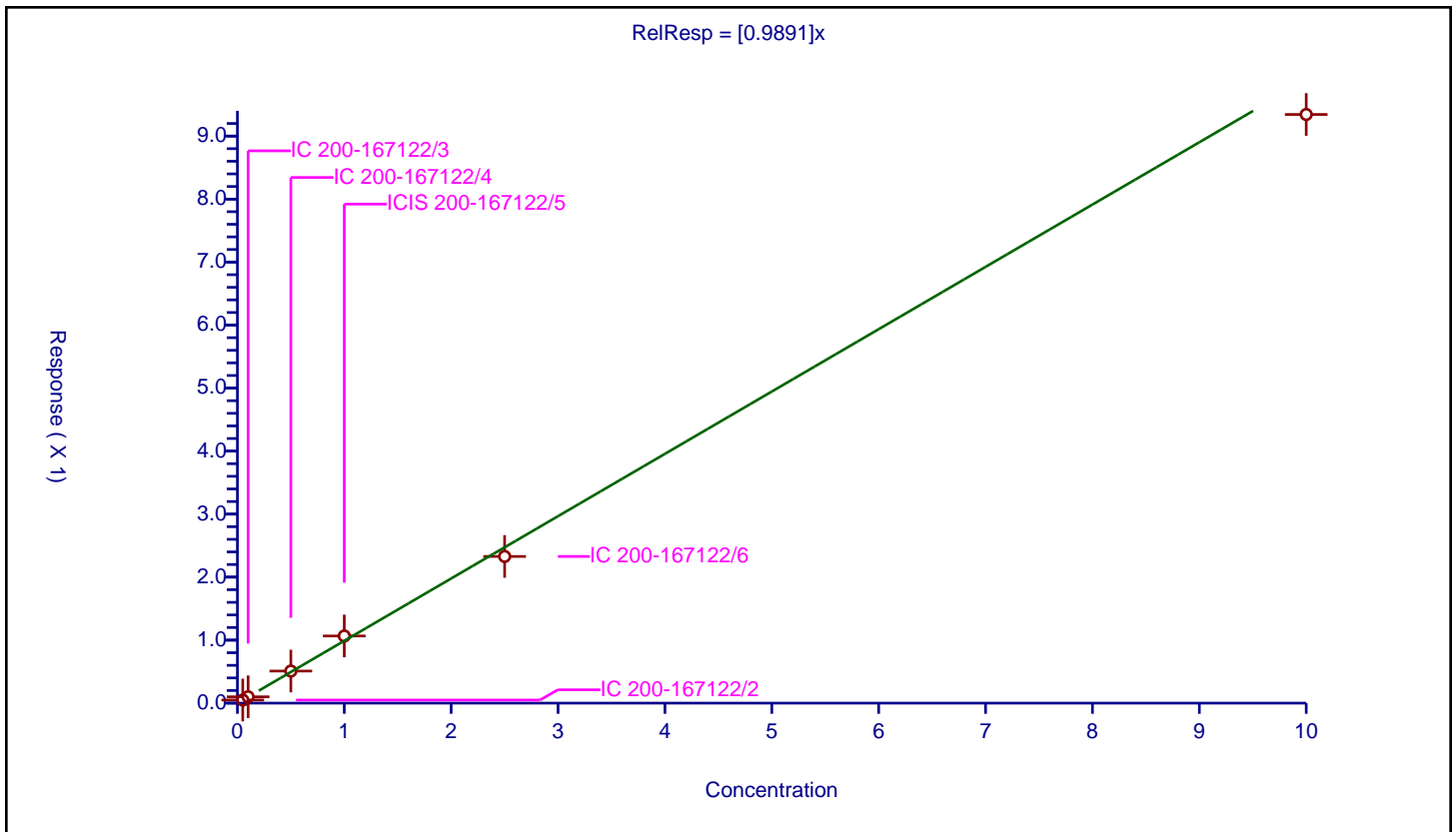
/ Perfluoroundecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9891

Error Coefficients	
Standard Error:	2880000
Relative Standard Error:	5.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.049038	1.25	711492.0	0.980756	Y
2	IC 200-167122/3	0.1	0.100473	1.25	833367.0	1.004734	Y
3	IC 200-167122/4	0.5	0.509045	1.25	844376.0	1.018089	Y
4	ICIS 200-167122/5	1.0	1.065732	1.25	831704.0	1.065732	Y
5	IC 200-167122/6	2.5	2.328044	1.25	871893.0	0.931217	Y
6	IC 200-167122/7	10.0	9.342743	1.25	828481.0	0.934274	Y



Calibration

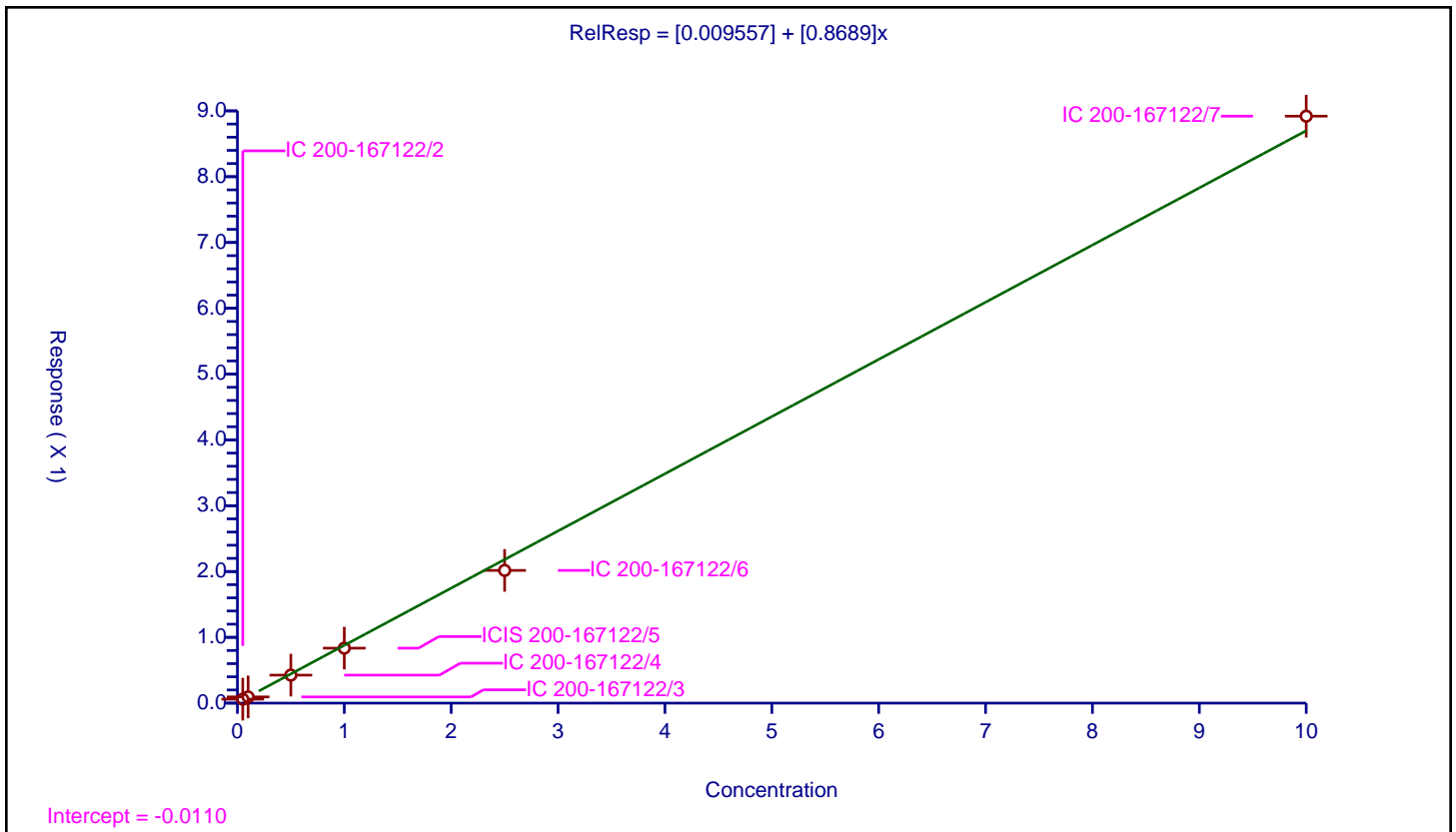
/ N-ethylperfluorooctanesulfonamidoacetic acid

Curve Type: Linear
 Weighting: Conc
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.009557
Slope:	0.8689

Error Coefficients	
Standard Error:	254000
Relative Standard Error:	9.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.060235	1.25	60638.0	1.20469	Y
2	IC 200-167122/3	0.1	0.094308	1.25	71468.0	0.943079	Y
3	IC 200-167122/4	0.5	0.425776	1.25	68842.0	0.851551	Y
4	ICIS 200-167122/5	1.0	0.835706	1.25	74280.0	0.835706	Y
5	IC 200-167122/6	2.5	2.016997	1.25	72233.0	0.806799	Y
6	IC 200-167122/7	10.0	8.919809	1.25	68967.0	0.891981	Y



Calibration

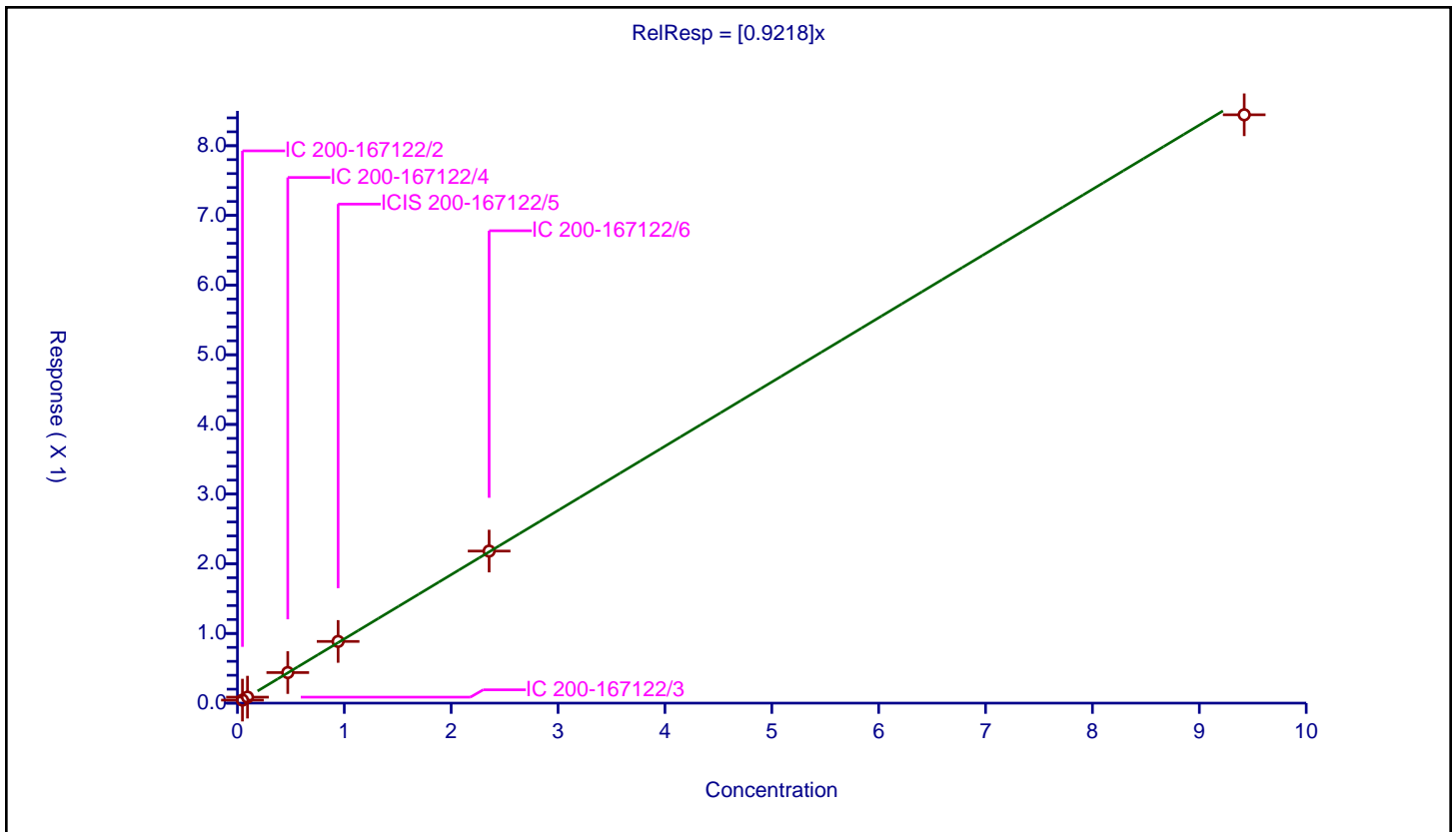
/ 11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.9218

Error Coefficients	
Standard Error:	2500000
Relative Standard Error:	1.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0471	0.043555	1.195	762787.0	0.92474	Y
2	IC 200-167122/3	0.0942	0.085907	1.195	775404.0	0.911967	Y
3	IC 200-167122/4	0.471	0.438532	1.195	779486.0	0.931066	Y
4	ICIS 200-167122/5	0.942	0.885354	1.195	748644.0	0.939866	Y
5	IC 200-167122/6	2.355	2.182435	1.195	785655.0	0.926724	Y
6	IC 200-167122/7	9.42	8.444245	1.195	760503.0	0.896417	Y



Calibration

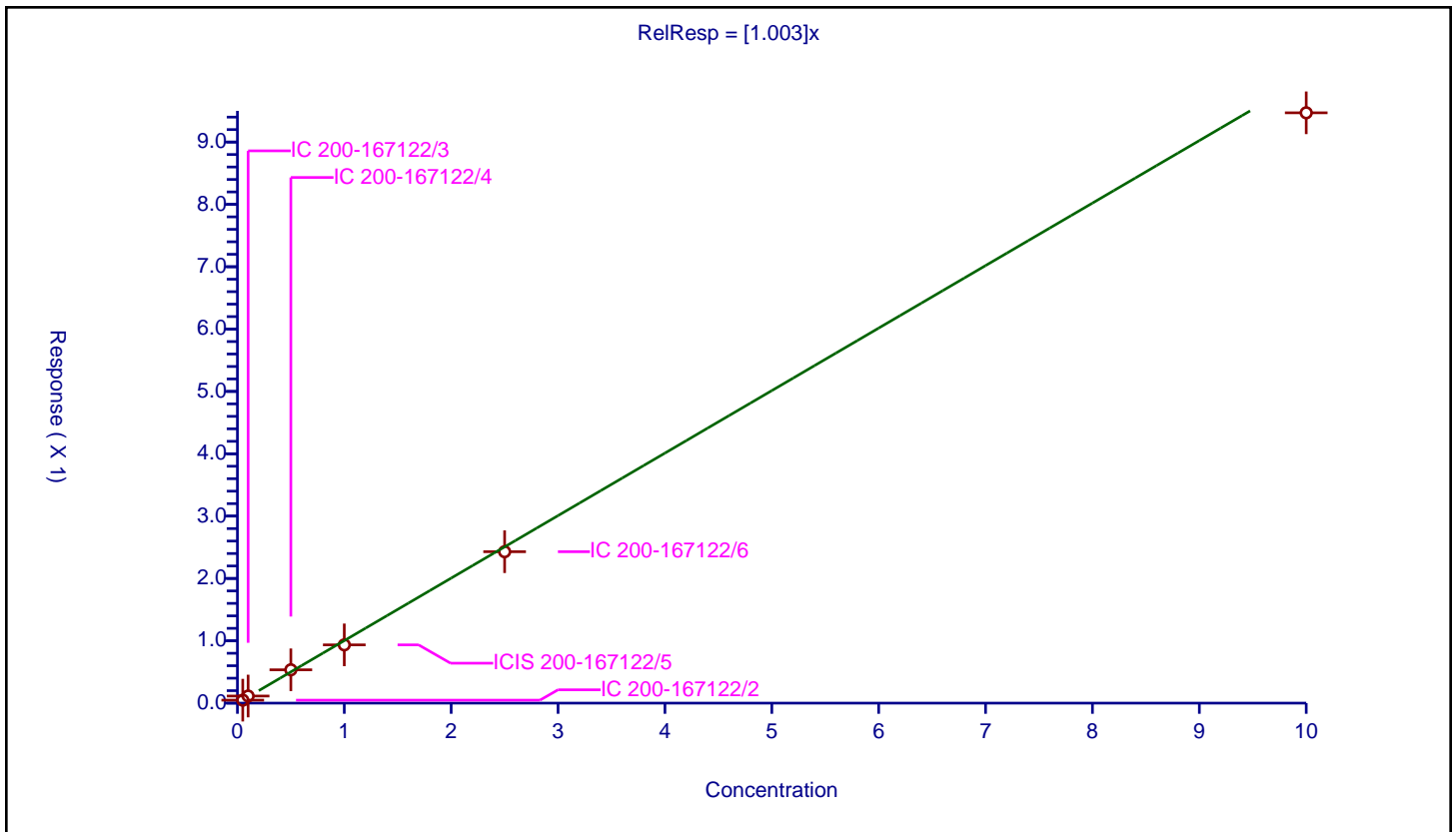
/ Perfluorododecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.003

Error Coefficients	
Standard Error:	3080000
Relative Standard Error:	8.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.047828	1.25	753951.0	0.956561	Y
2	IC 200-167122/3	0.1	0.113664	1.25	860951.0	1.136636	Y
3	IC 200-167122/4	0.5	0.53479	1.25	848766.0	1.069579	Y
4	ICIS 200-167122/5	1.0	0.934596	1.25	894734.0	0.934596	Y
5	IC 200-167122/6	2.5	2.428841	1.25	916815.0	0.971536	Y
6	IC 200-167122/7	10.0	9.469398	1.25	873004.0	0.94694	Y



Calibration

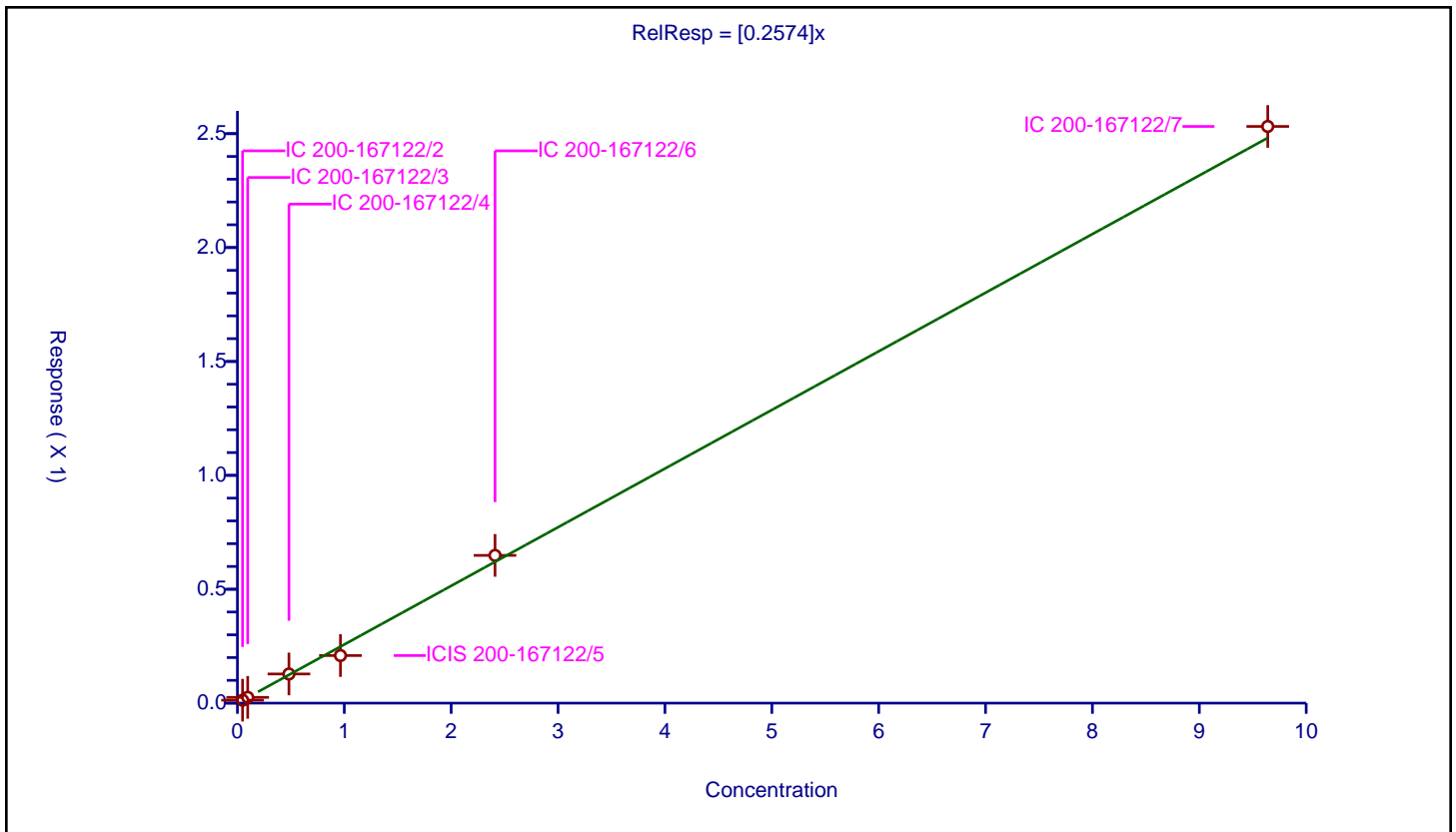
/ 1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2)

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2574

Error Coefficients	
Standard Error:	146000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0482	0.012894	1.1975	132162.0	0.267502	Y
2	IC 200-167122/3	0.0964	0.025349	1.1975	146209.0	0.262957	Y
3	IC 200-167122/4	0.482	0.12796	1.1975	145607.0	0.265478	Y
4	ICIS 200-167122/5	0.964	0.208935	1.1975	155299.0	0.216738	Y
5	IC 200-167122/6	2.41	0.648606	1.1975	143237.0	0.269131	Y
6	IC 200-167122/7	9.64	2.531686	1.1975	148814.0	0.262623	Y



Calibration

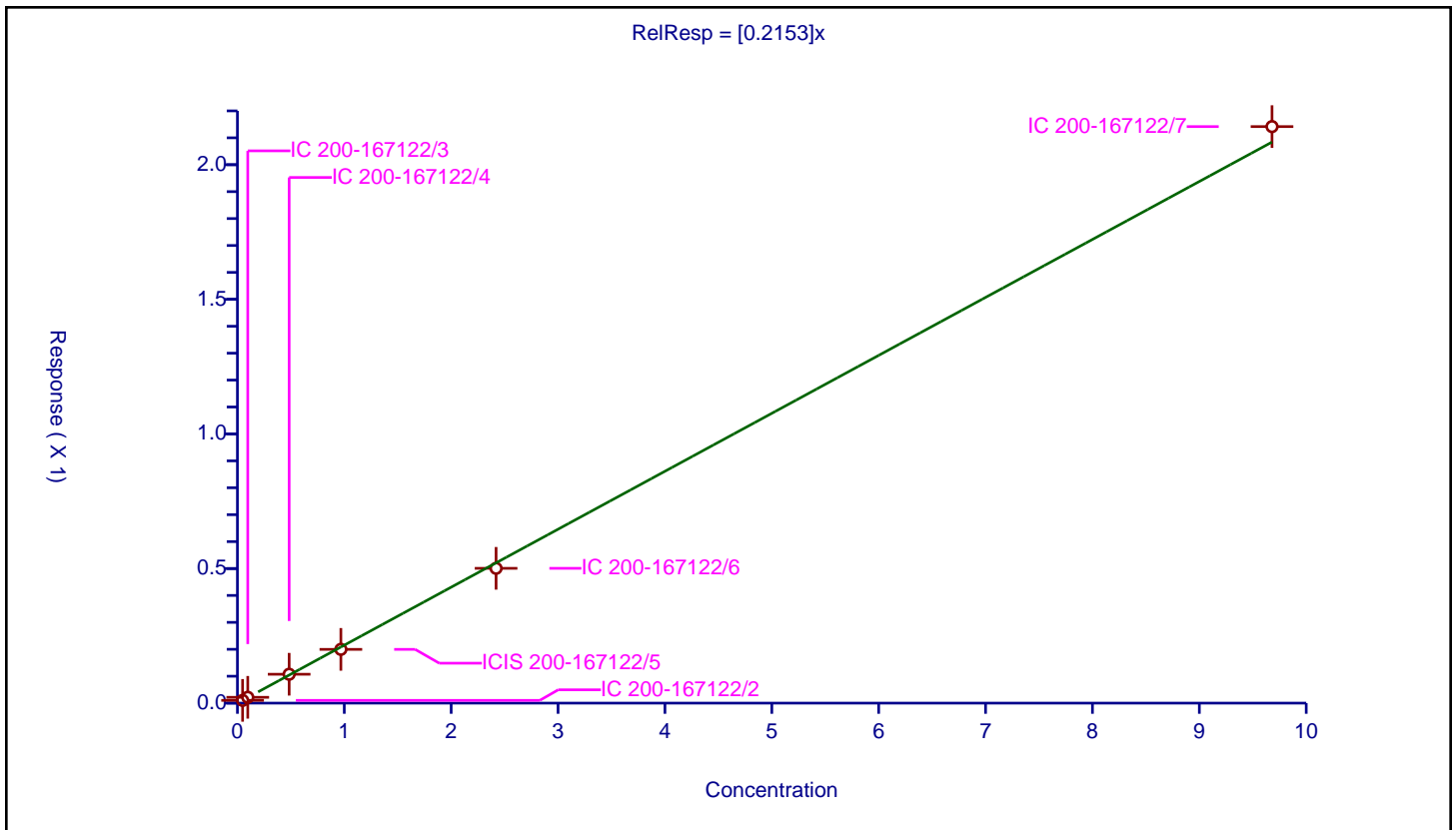
/ Perfluorododecanesulfonic acid (PFDoS)

Curve Type: Average
Weighting: Conc_Sq
Origin: Force
Dependency: Response
Calib Mode: IsoDil
Response Base: AREA
RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2153

Error Coefficients	
Standard Error:	630000
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.0484	0.010261	1.195	762787.0	0.212012	Y
2	IC 200-167122/3	0.0968	0.021653	1.195	775404.0	0.223687	Y
3	IC 200-167122/4	0.484	0.107307	1.195	779486.0	0.221708	Y
4	ICIS 200-167122/5	0.968	0.199674	1.195	748644.0	0.206275	Y
5	IC 200-167122/6	2.42	0.50072	1.195	785655.0	0.206909	Y
6	IC 200-167122/7	9.68	2.141661	1.195	760503.0	0.221246	Y



Calibration

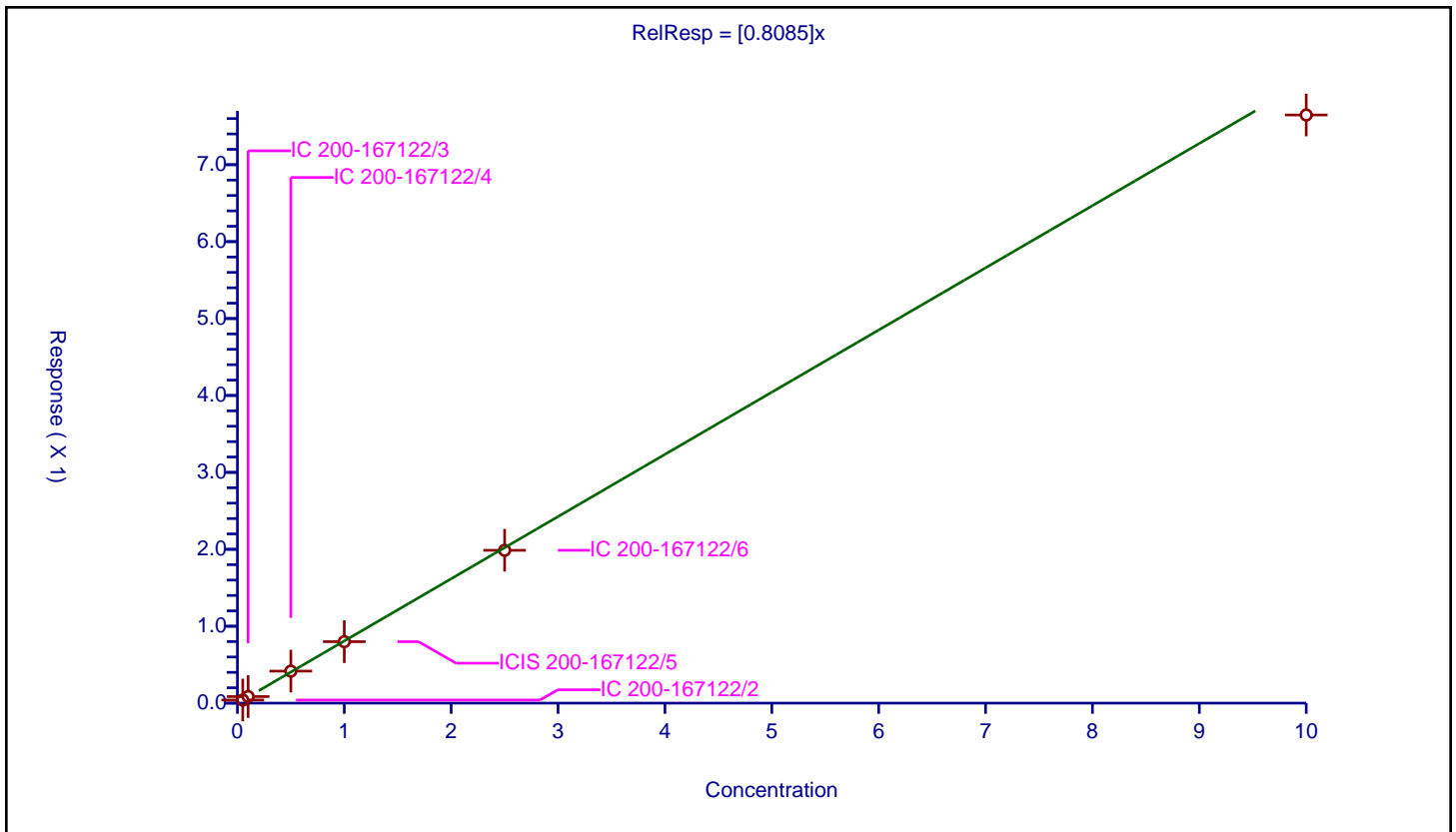
/ Perfluorotridecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8085

Error Coefficients	
Standard Error:	2490000
Relative Standard Error:	3.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.040276	1.25	753951.0	0.805523	Y
2	IC 200-167122/3	0.1	0.085413	1.25	860951.0	0.854128	Y
3	IC 200-167122/4	0.5	0.416338	1.25	848766.0	0.832676	Y
4	ICIS 200-167122/5	1.0	0.799082	1.25	894734.0	0.799082	Y
5	IC 200-167122/6	2.5	1.98727	1.25	916815.0	0.794908	Y
6	IC 200-167122/7	10.0	7.646653	1.25	873004.0	0.764665	Y



Calibration

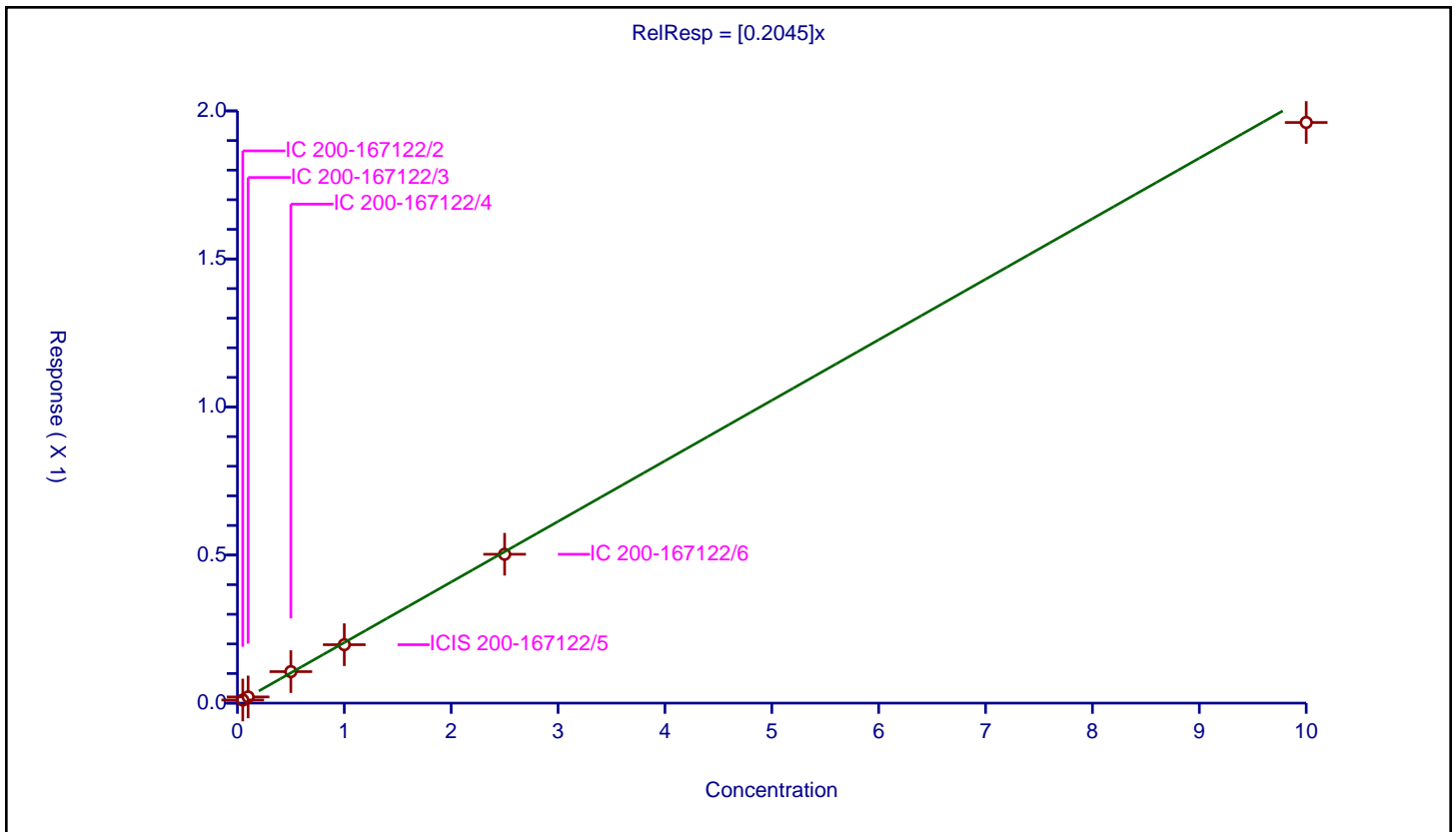
/ Perfluorotetradecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.2045

Error Coefficients	
Standard Error:	483000
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 200-167122/2	0.05	0.010523	1.25	527071.0	0.210456	Y
2	IC 200-167122/3	0.1	0.020937	1.25	643650.0	0.209372	Y
3	IC 200-167122/4	0.5	0.106321	1.25	633741.0	0.212642	Y
4	ICIS 200-167122/5	1.0	0.197308	1.25	636062.0	0.197308	Y
5	IC 200-167122/6	2.5	0.502705	1.25	664584.0	0.201082	Y
6	IC 200-167122/7	10.0	1.960842	1.25	663103.0	0.196084	Y



Calibration

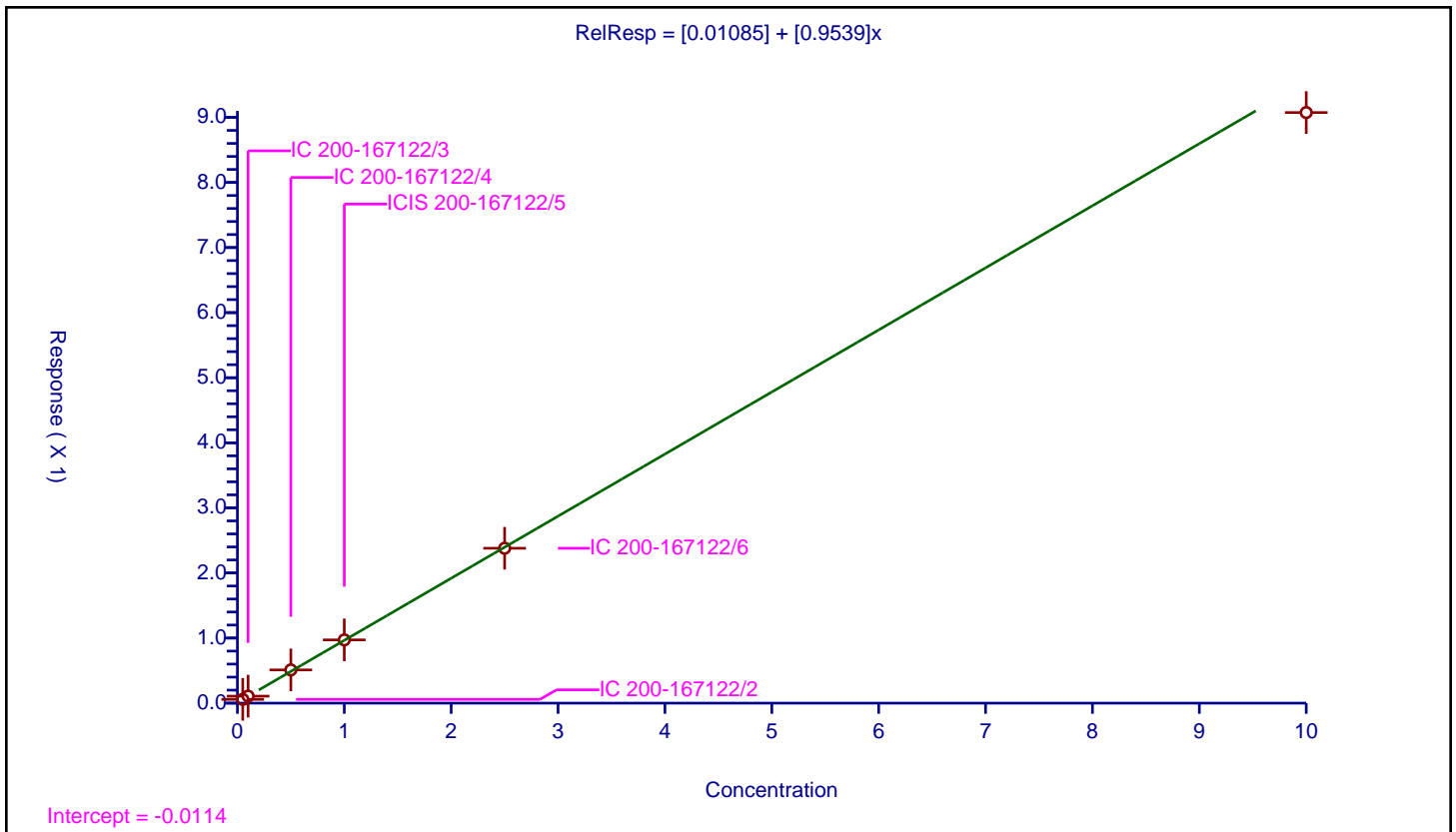
/ Perfluorohexadecanoic acid

Curve Type: Linear
 Weighting: Conc_Sq
 Origin: None
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.01085
Slope:	0.9539

Error Coefficients	
Standard Error:	2580000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.058015	1.25	508425.0	1.160299	Y
2	IC 200-167122/3	0.1	0.107484	1.25	636351.0	1.074839	Y
3	IC 200-167122/4	0.5	0.510574	1.25	607503.0	1.021147	Y
4	ICIS 200-167122/5	1.0	0.97162	1.25	609743.0	0.97162	Y
5	IC 200-167122/6	2.5	2.379793	1.25	637537.0	0.951917	Y
6	IC 200-167122/7	10.0	9.074386	1.25	687996.0	0.907439	Y



Calibration

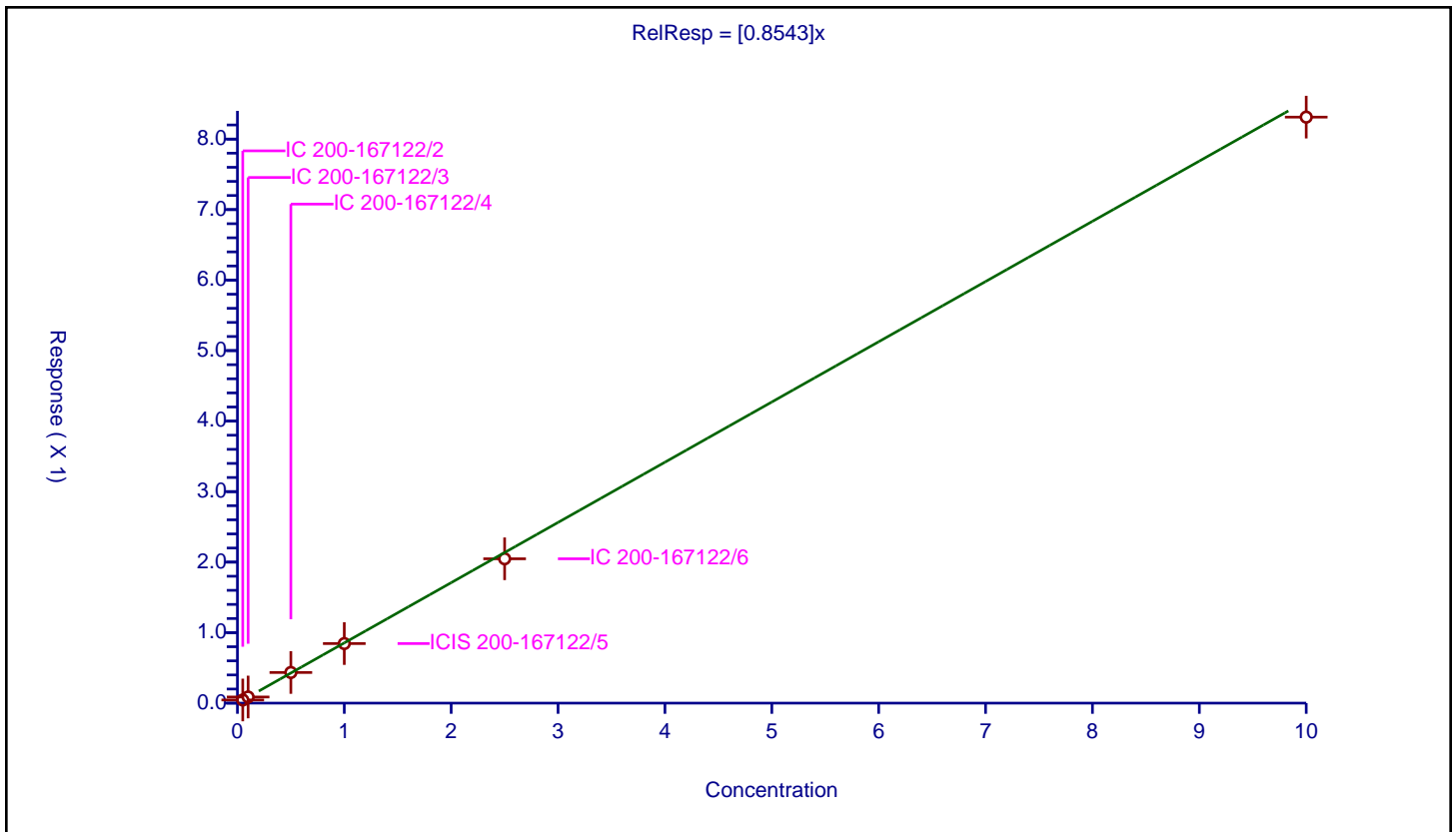
/ Perfluorooctadecanoic acid

Curve Type: Average
 Weighting: Conc_Sq
 Origin: Force
 Dependency: Response
 Calib Mode: IsoDil
 Response Base: AREA
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	0.8543

Error Coefficients	
Standard Error:	2110000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 200-167122/2	0.05	0.044626	1.25	508425.0	0.892511	Y
2	IC 200-167122/3	0.1	0.086888	1.25	636351.0	0.86888	Y
3	IC 200-167122/4	0.5	0.43463	1.25	607503.0	0.869259	Y
4	ICIS 200-167122/5	1.0	0.844768	1.25	609743.0	0.844768	Y
5	IC 200-167122/6	2.5	2.047328	1.25	637537.0	0.818931	Y
6	IC 200-167122/7	10.0	8.311674	1.25	687996.0	0.831167	Y



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: ICV 200-167122/9 Calibration Date: 05/20/2021 17:53
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210520ICAL09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9349	0.9570		1.02	1.00	2.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.011	1.080		1.08	1.01	6.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.030	1.083		1.05	1.00	5.1	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.743	1.673		0.960	1.00	-4.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.012	1.099		1.10	1.01	8.6	40.0
Perfluoropentanesulfonic acid	AveID	1.218	1.265		1.04	1.00	3.9	50.0
HFPO-DA	AveID	1.655	1.654		1.01	1.01	-0.0	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.009	1.038		1.03	1.00	2.9	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.109	1.120		1.02	1.01	1.0	40.0
DONA	AveID	3.141	3.349		1.07	1.00	6.6	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.242	1.326		1.07	1.00	6.7	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.8971	0.9540		1.06	1.00	6.3	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.027	1.095		1.07	1.00	6.6	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.077	0.9653		0.906	1.01	-10.3	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9633	1.188		1.23	1.00	23.3	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.036	0.9922		0.958	1.00	-4.2	50.0
Perfluorononanesulfonic acid	AveID	0.8018	0.8204		1.03	1.01	2.3	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.046	1.096		1.05	1.00	4.8	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.5017	0.5212		1.05	1.01	3.9	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9783	0.996		1.02	1.00	1.8	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8791	0.9162		1.04	1.00	4.2	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6311	0.6535		1.05	1.01	3.6	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9891	0.9932		1.00	1.00	0.4	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	L1ID		0.8850		1.01	1.00	0.8	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.9218	0.9161		0.994	1.00	-0.6	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.003	0.9595		0.957	1.00	-4.3	40.0
10:2 FTS	AveID	0.2574	0.2407		0.902	0.964	-6.5	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2153	0.2301		1.03	0.968	6.9	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8085	0.7432		0.919	1.00	-8.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2045	0.2248		1.10	1.00	9.9	40.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: ICV 200-167122/9 Calibration Date: 05/20/2021 17:53
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210520ICAL09.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8917		0.923	1.00	-7.7	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8543	0.8068		0.944	1.00	-5.6	50.0
13C4 PFBA	Ave	1.253	1.295		1.29	1.25	3.3	50.0
13C5 PFPeA	Ave	0.9108	0.9349		1.28	1.25	2.6	50.0
13C3 PFBS	Ave	1.138	1.143		1.17	1.16	0.4	50.0
M2-4:2 FTS	Ave	0.0884	0.0965		1.27	1.17	9.2	50.0
13C2 PFHxA	Ave	0.9887	1.017		1.29	1.25	2.9	50.0
13C3 HFPO-DA	Ave	0.1094	0.1099		1.26	1.25	0.4	50.0
13C4 PFHpA	Ave	0.9882	0.9944		1.26	1.25	0.6	50.0
18O2 PFHxS	Ave	0.8838	0.9279		1.24	1.18	5.0	50.0
M2-6:2 FTS	Ave	0.1171	0.1178		1.20	1.19	0.6	50.0
13C4 PFOA	Ave	1.001	1.017		1.27	1.25	1.6	50.0
13C4 PFOS	Ave	0.6377	0.6689		1.25	1.20	4.9	50.0
13C5 PFNA	Ave	0.9222	0.8669		1.17	1.25	-6.0	50.0
13C2 PFDA	Ave	0.8087	0.8491		1.31	1.25	5.0	50.0
M2-8:2 FTS	Ave	0.1200	0.1304		1.30	1.20	8.6	50.0
13C8 FOSA	Ave	1.141	1.159		1.27	1.25	1.6	50.0
d3-NMeFOSAA	Ave	0.0547	0.0601		1.37	1.25	9.9	50.0
13C2 PFUnA	Ave	0.6487	0.6917		1.33	1.25	6.6	50.0
d5-NEtFOSAA	Ave	0.0549	0.0593		1.35	1.25	8.0	50.0
13C2 PFDoA	Ave	0.6788	0.7002		1.29	1.25	3.2	50.0
13C2 PFTeDA	Ave	0.4966	0.5158		1.30	1.25	3.9	50.0
13C2 PFHxDA	Ave	0.4862	0.5210		1.34	1.25	7.2	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL09.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 20-May-2021 17:53:37 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 200-0046072-009 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-May-2021 18:38:11 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1654

First Level Reviewer: chirgwinb Date: 20-May-2021 18:19:44

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.100	2.100	0.0	0.597	1867454	1.29	103	13162	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.109	2.100	0.009	1.004	1429665	1.02		356		M
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1347932	1.28	103	3778	
4 Perfluoropentanoic acid	262.90 > 219.00	2.426	2.426	0.0	1.000	1176100	1.08		149	
D 47 13C3 PFBS	301.90 > 80.00	2.452	2.452	0.0	0.697	1532074	1.17	100	294542	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.452	2.452	0.0	1.000	1427423	1.05	Target=2.19	2180	
298.90 > 99.00	2.452	2.452	0.0	1.000	650125		2.20(1.09-3.28)	476		
D 60 M2-4:2 FTS	329.00 > 81.00	2.758	2.758	0.0	0.784	129888	1.27	109	223	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.758	2.758	0.0	1.000	186120	0.9598		1702	
D 7 13C2 PFHxA	315.00 > 270.00	2.795	2.794	0.001	0.794	1466686	1.29	103	3266	
6 Perfluorohexanoic acid	313.00 > 269.00	2.795	2.794	0.001	1.000	1302294	1.10	Target=12.12	384	
313.00 > 119.00	2.795	2.794	0.001	1.000	106511		12.23(6.06-18.18)	230		
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.795	2.794	0.001	0.886	1354035	1.04	Target=3.58	2438	
349.00 > 99.00	2.795	2.794	0.001	0.886	395454		3.42(1.79-5.37)	587		
67 Perfluoro(2-propoxypropanoic) ac	329.10 > 285.00	2.902	2.902	0.0	1.000	211700	1.01		99.9	

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	0.825	158411	1.26		100	2234	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.153	0.001	1.000	1210298	1.02	Target=4.23		2078	
399.00 > 99.00	3.154	3.153	0.001	1.000	269645		4.49(2.12-6.35)		394	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.153	0.001	0.896	1265553	1.24		105	2949	
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.164	-0.010	0.896	1433673	1.26		101	3072	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.154	3.164	-0.010	1.000	1190168	1.03	Target=3.49		646	
363.00 > 169.00	3.154	3.164	-0.010	1.000	336580		3.54(1.75-5.24)		762	
77 DONA										
377.00 > 251.00	3.197	3.196	0.001	0.833	2583809	1.07	Target=2.43		4470	
377.00 > 85.00	3.197	3.196	0.001	0.833	1082253		2.39(1.21-3.64)		1472	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.501	3.510	-0.009	0.913	1022792	1.07	Target=6.21		4895	
449.00 > 99.00	3.501	3.510	-0.009	0.913	156726		6.53(3.10-9.31)		546	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.501	3.510	-0.009	0.995	161351	1.20		101	706	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.003	129619	1.06			929	
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1466343	1.27		102	1515	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1441750	1.25			142	M
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	1284107	1.07	Target=2.53		495	
413.00 > 169.00	3.519	3.519	0.0	1.000	524548		2.45(1.27-3.80)		1394	
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	921951	1.25		105	3134	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	752145	0.9055	Target=6.09		448	M
499.00 > 99.00	3.824	3.836	-0.012	0.997	124658		6.03(3.04-9.13)		290	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.003	1187832	1.23	Target=6.34		430	
463.00 > 169.00	3.859	3.858	0.001	1.003	178377		6.66(3.17-9.51)		1427	
D 19 13C5 PFNA										
468.00 > 423.00	3.847	3.858	-0.011	1.093	1249798	1.17		94.0	3398	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.992	3.992	0.0	1.041	765501	0.9579			3628	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	639252	1.03	Target=2.95		5417	
549.00 > 99.00	4.126	4.126	0.0	1.076	212217		3.01(1.47-4.42)		916	
D 23 13C2 PFDA										
515.00 > 470.00	4.149	4.148	0.0	1.179	1224201	1.31		105	2831	

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	0.0	1.000	1073661	1.05	Target=7.79		879	
513.00 > 169.00	4.149	4.148	0.0	1.000	132852		8.08(3.90-11.69)		1292	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.160	0.0	1.182	180088	1.30		109	795	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.160	0.0	1.000	79162	1.05			1773	
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.214	0.001	1.198	1671606	1.27		102	2735	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.215	4.214	0.001	1.000	1331459	1.02			2103	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.291	4.291	0.0	1.219	86675	1.37		110	274	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.003	63532	1.04			198	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.380	0.011	1.145	509225	1.05	Target=2.87		2342	
599.00 > 99.00	4.391	4.380	0.011	1.145	185729		2.74(1.44-4.31)		1208	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.413	4.413	0.0	1.000	792438	1.00	Target=7.94		1030	
563.00 > 169.00	4.413	4.413	0.0	1.000	100786		7.86(3.97-11.91)		926	
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.413	0.0	1.254	997286	1.33		107	3418	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.424	0.0	1.257	85505	1.35		108	831	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.434	4.424	0.010	1.002	60540	1.01			559	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.505	4.505	0.0	1.174	706742	0.99			2648	
D 36 13C2 PFDaA										
615.00 > 570.00	4.643	4.642	0.001	1.319	1009582	1.29		103	3993	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.002	774960	0.9570	Target=5.94		291	
613.00 > 169.00	4.643	4.653	-0.010	1.000	142761		5.43(2.97-8.92)		1727	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.663	4.672	-0.009	1.121	34902	0.9016			567	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.822	4.822	0.0	1.257	171872	1.03	Target=0.44		2512	
699.00 > 99.00	4.822	4.822	0.0	1.257	352494		0.49(0.22-0.66)		1851	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.867	4.866	0.001	1.048	600293	0.9193	Target=3.97		260	M
663.00 > 169.00	4.856	4.866	-0.010	1.046	151613		3.96(1.99-5.96)		400	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.053	0.0	1.436	743658	1.30		104	3831	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.053	0.0	1.000	133722	1.10	Target=1.01		694	M
713.00 > 219.00	5.053	5.053	0.0	1.000	123087		1.09(0.51-1.52)		362	M

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	5.416	5.406	0.010	1.002	535886	0.9234	Target=3.56		319	
813.00 > 169.00	5.416	5.406	0.010	1.002	148961		3.60(1.78-5.34)		1657	
D 44 13C2 PFHxDA										
815.00 > 770.00	5.405	5.406	-0.001	1.536	751191	1.34		107	3037	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.747	5.747	0.0	1.063	484835	0.9444	Target=3.39		391	
913.00 > 169.00	5.747	5.747	0.0	1.063	143442		3.38(1.70-5.09)		1127	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00007

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL09.d

Injection Date: 20-May-2021 17:53:37

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

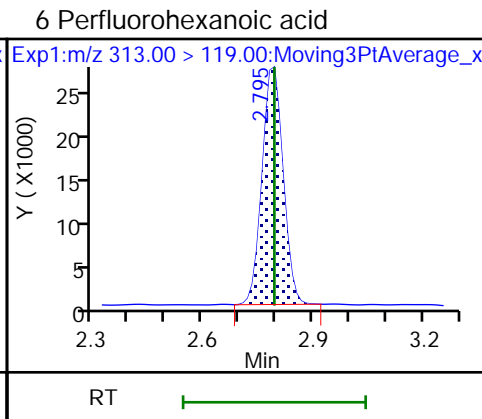
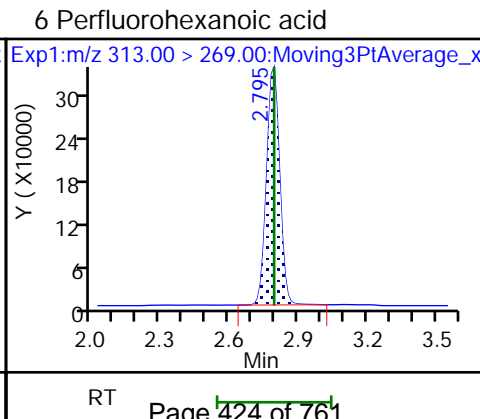
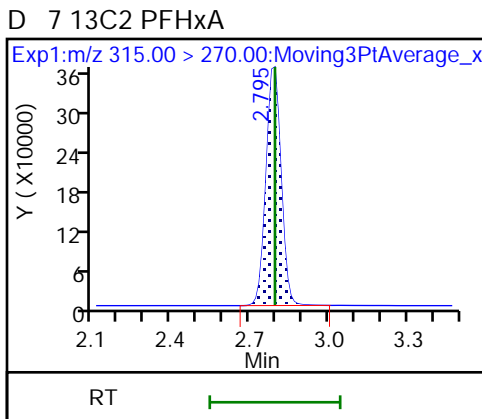
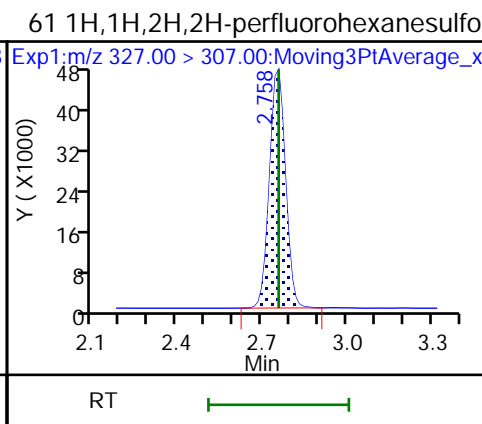
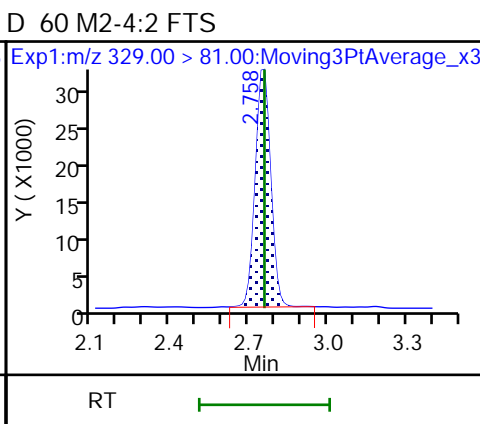
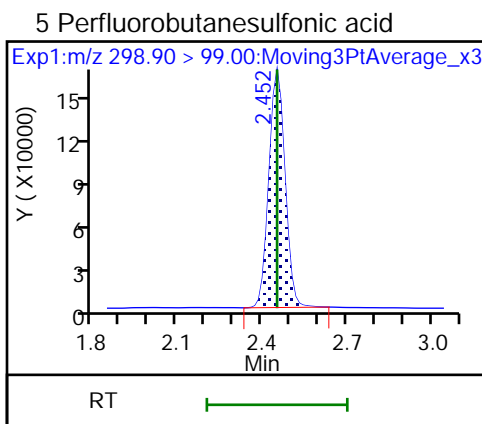
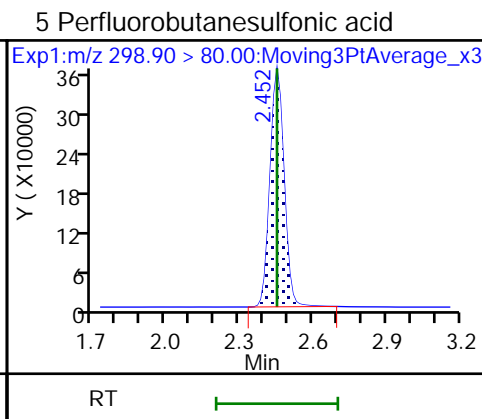
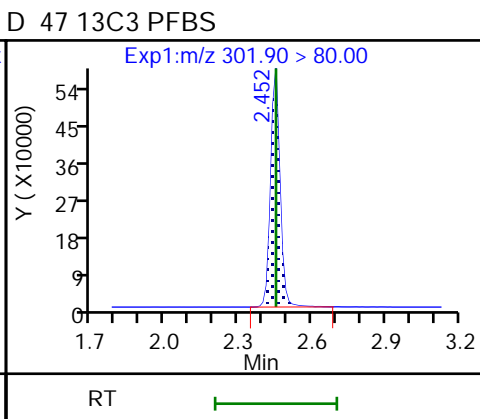
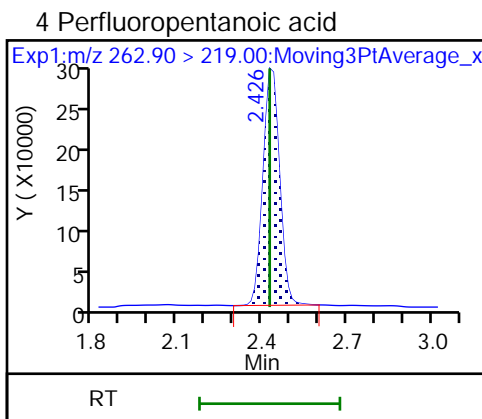
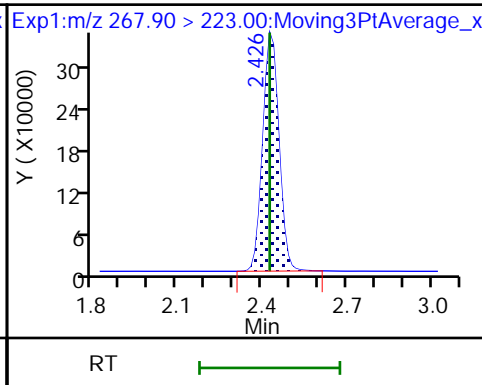
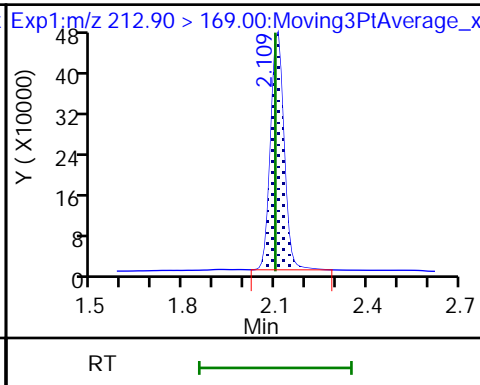
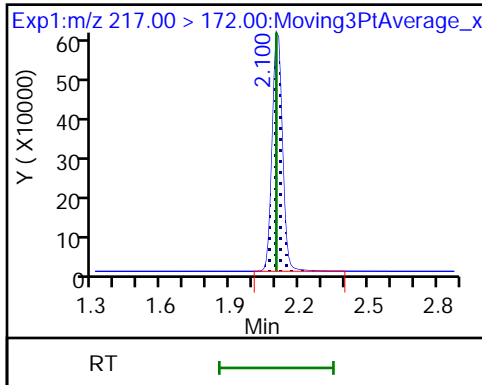
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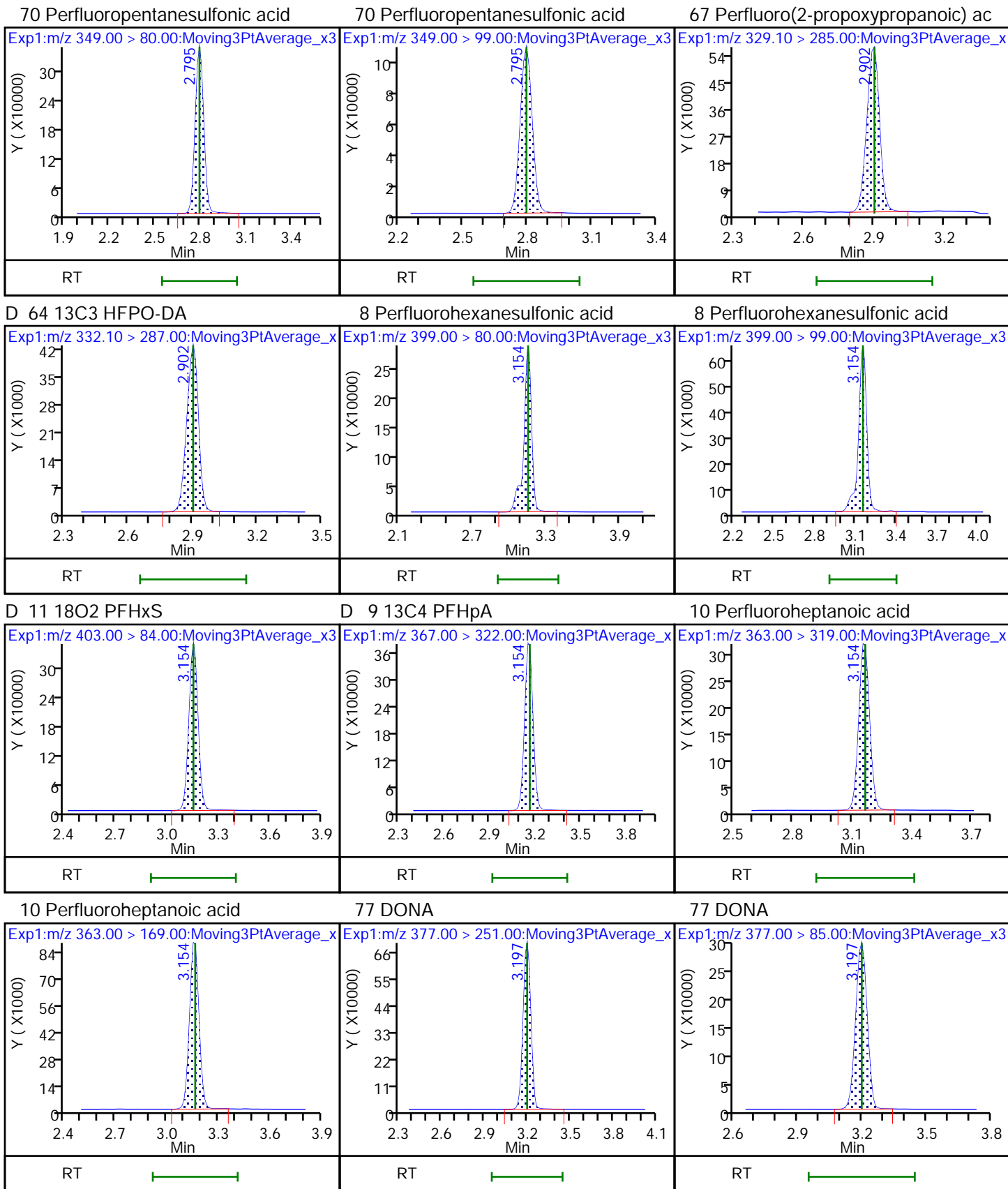
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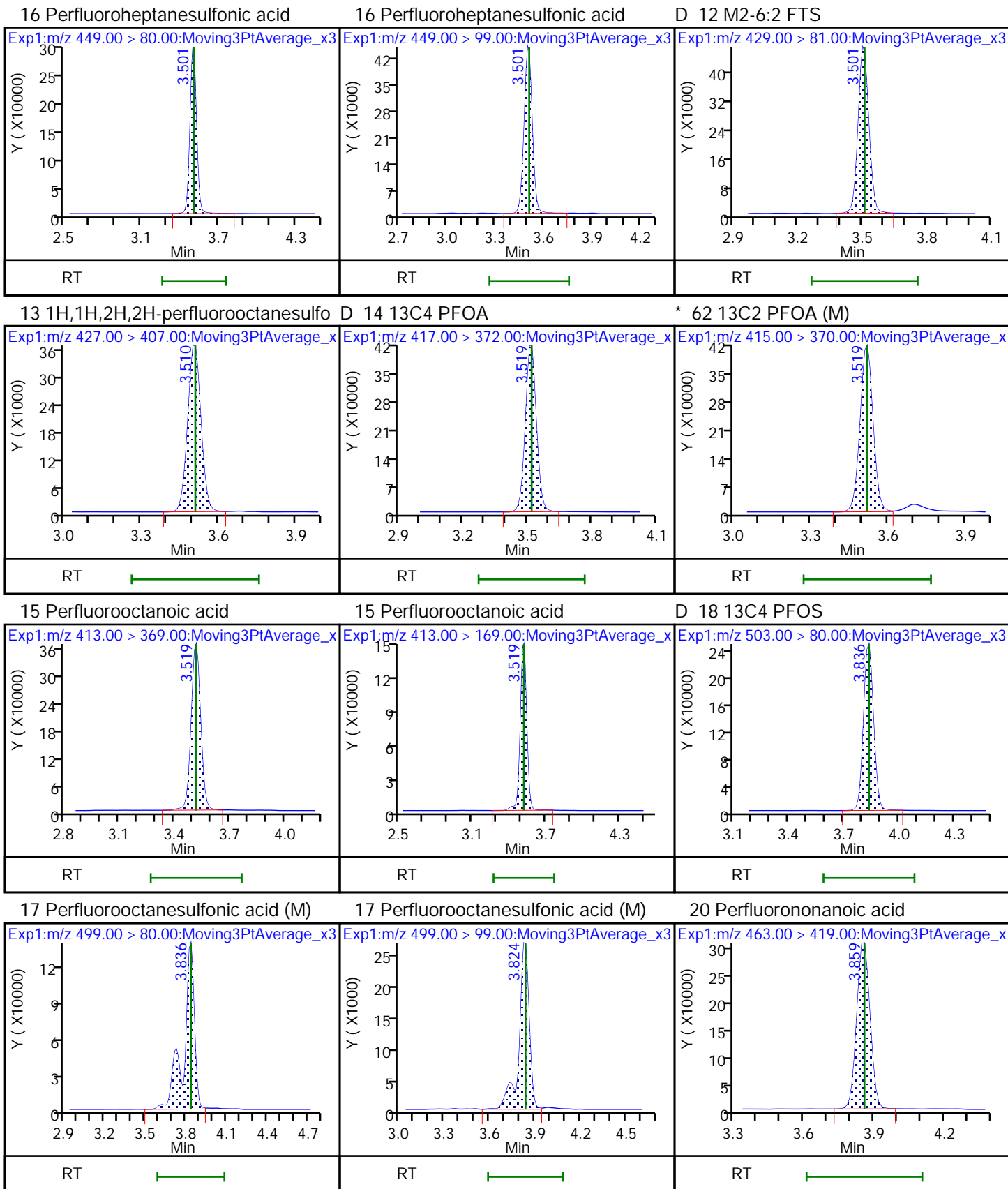
D 1 13C4 PFBA

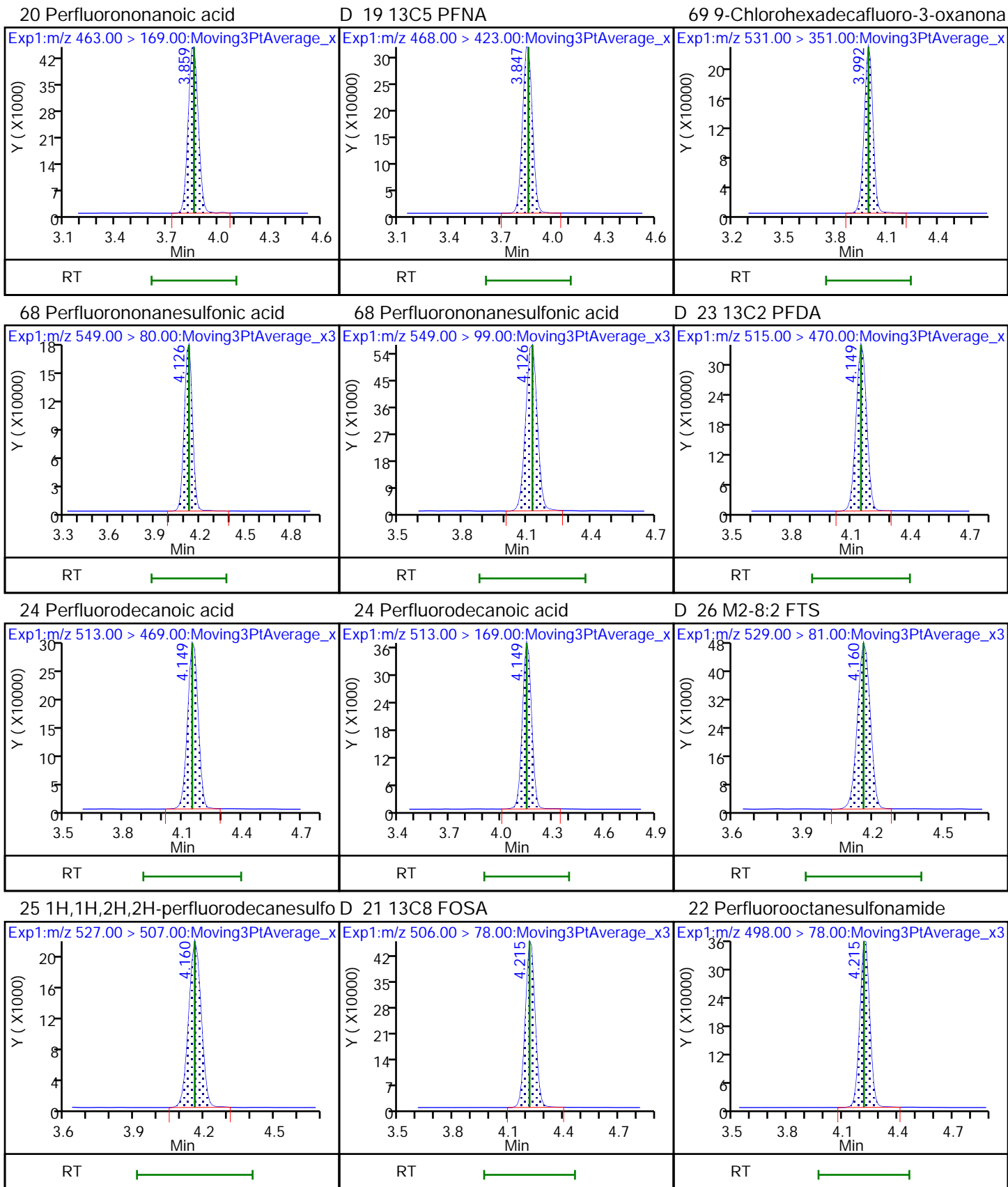
2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA





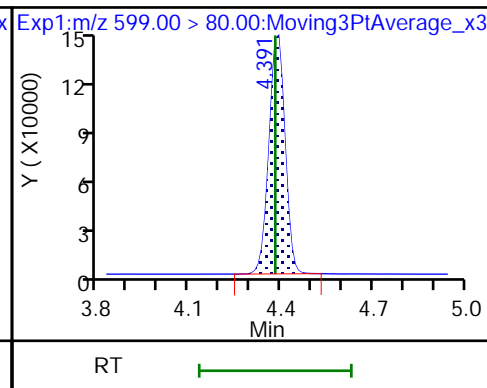
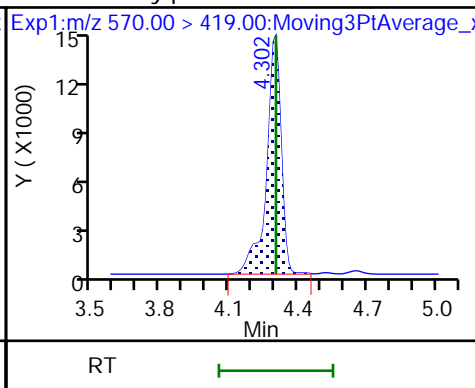
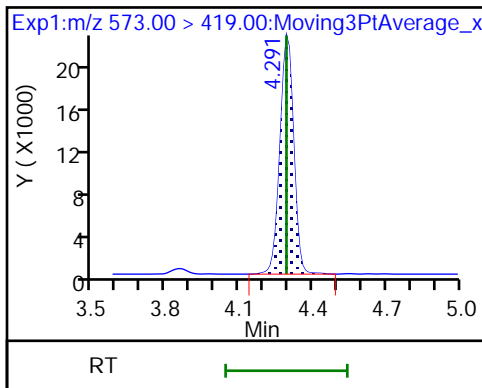




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

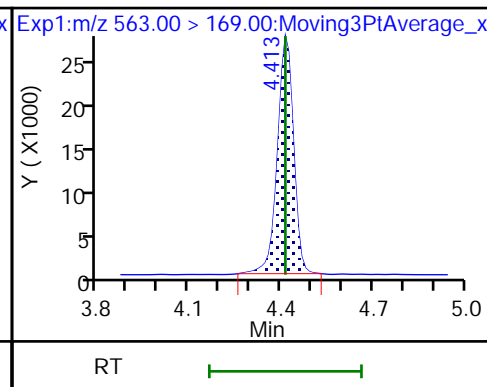
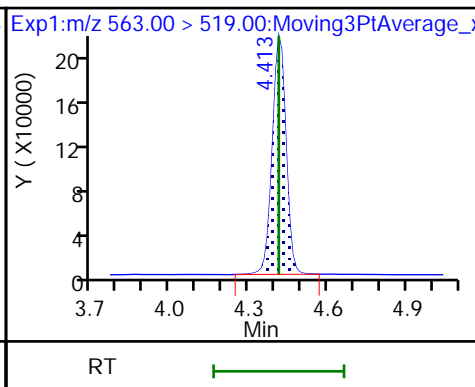
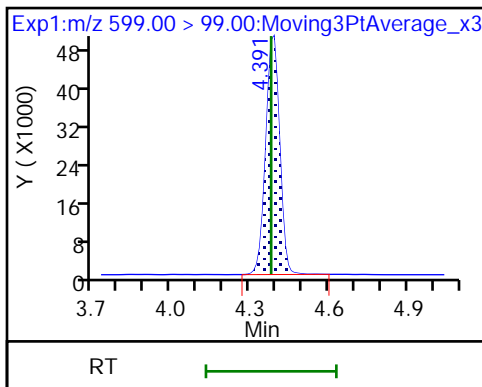
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

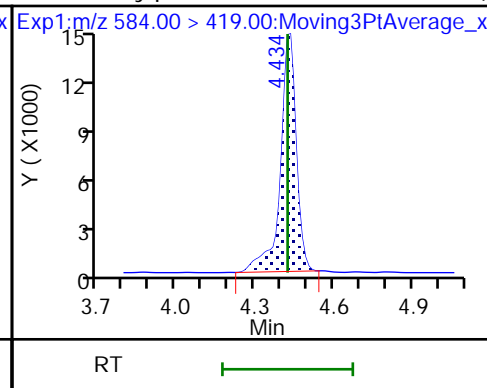
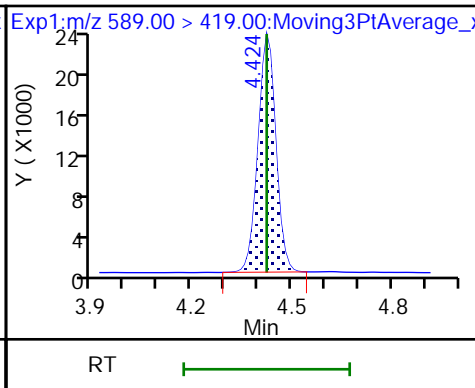
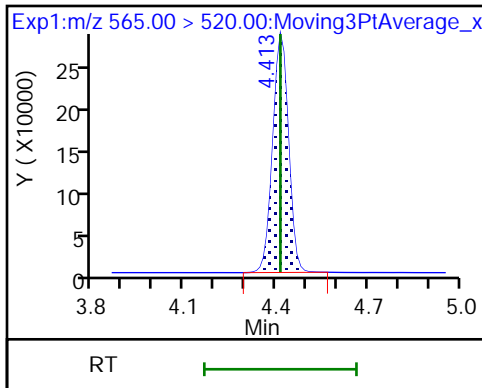
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

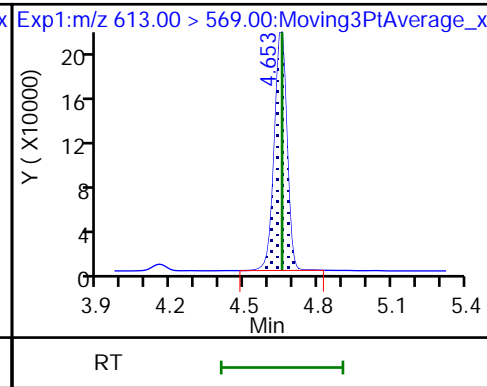
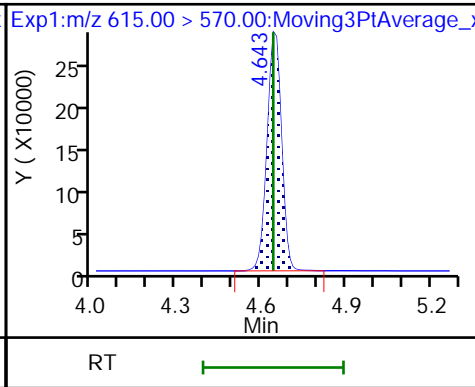
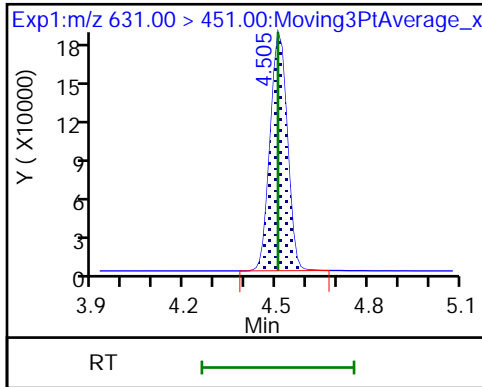
33 N-ethylperfluorooctanesulfonamid (M)

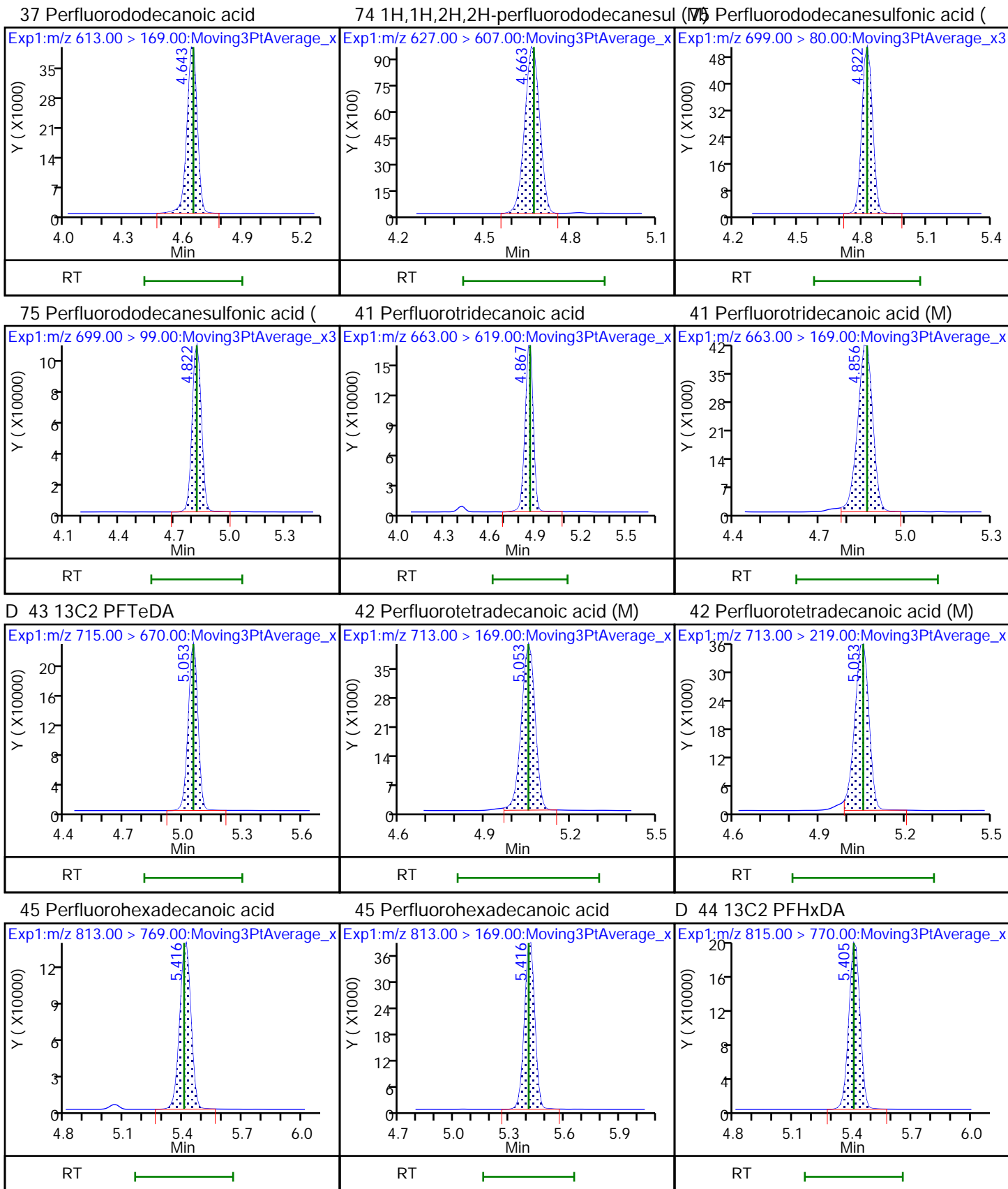


66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDoA

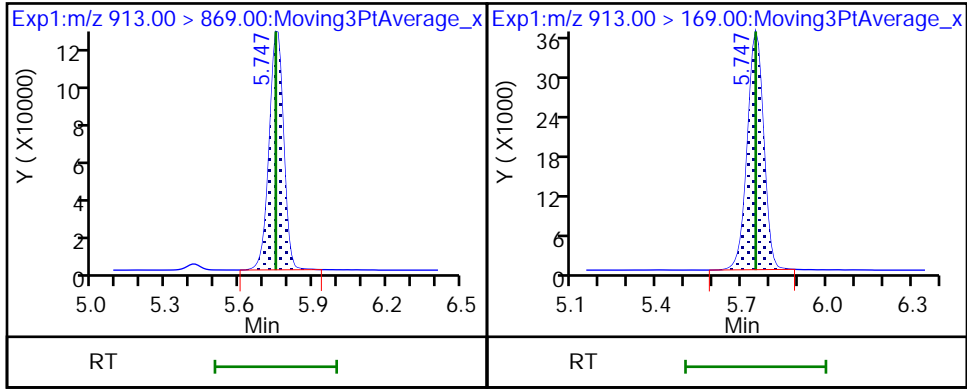
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



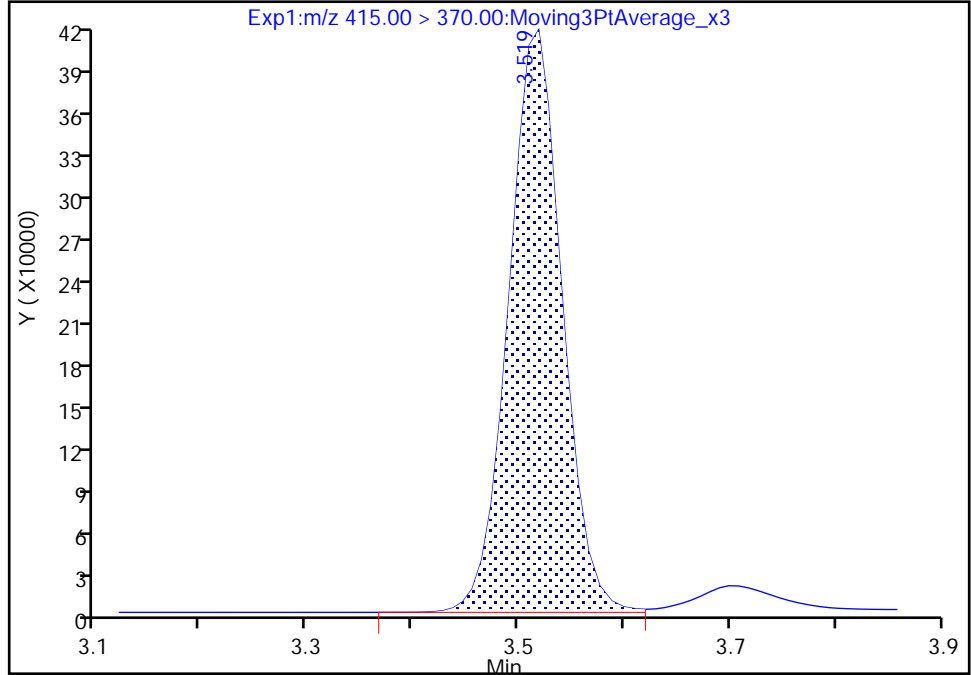
Eurofins TestAmerica, Burlington

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Injection Date: 20-May-2021 17:53:37 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

* 62 13C2 PFOA, CAS: STL00623
Signal: 1

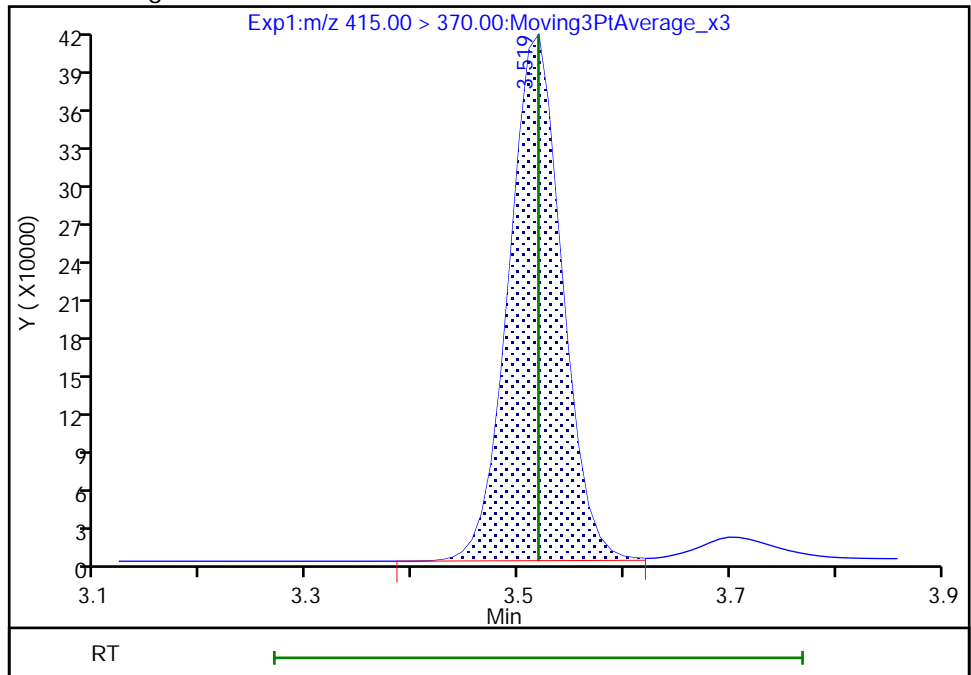
RT: 3.52
Area: 1447254
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1441750
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:22:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 431 of 761

Eurofins TestAmerica, Burlington

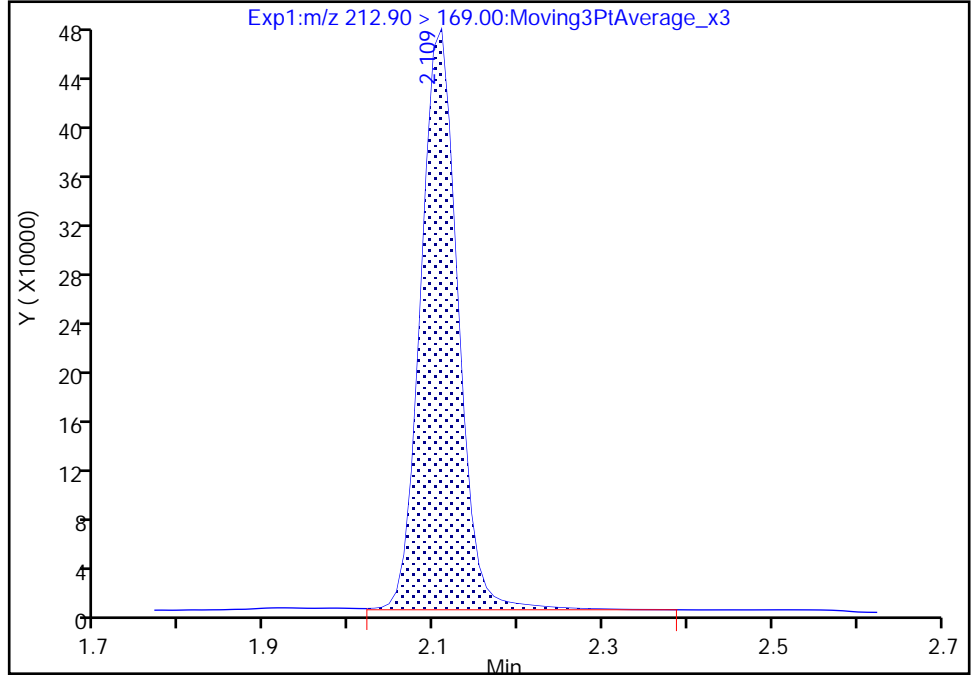
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Injection Date: 20-May-2021 17:53:37 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

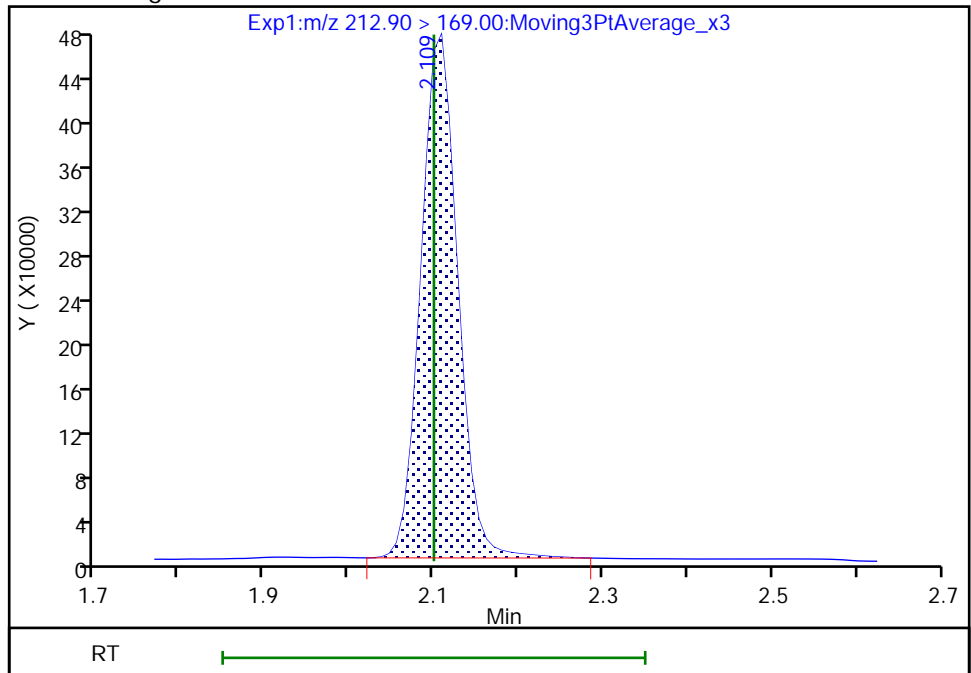
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Area: 1444791
Amount: 1.034429
Amount Units: ng/ml

Processing Integration Results



RT: 2.11
Area: 1429665
Amount: 1.023599
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

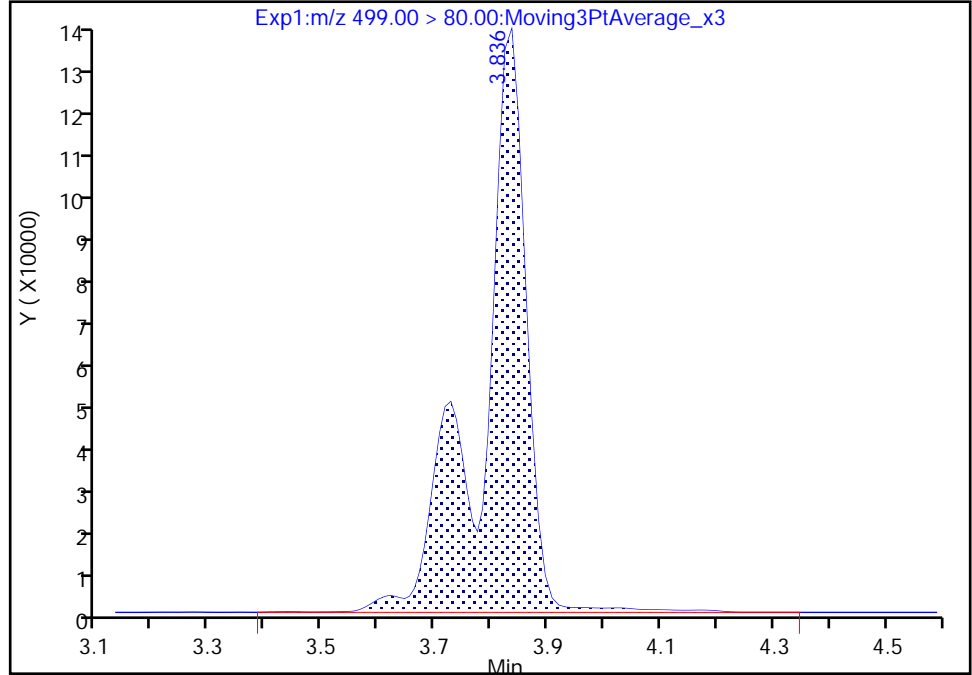
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Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

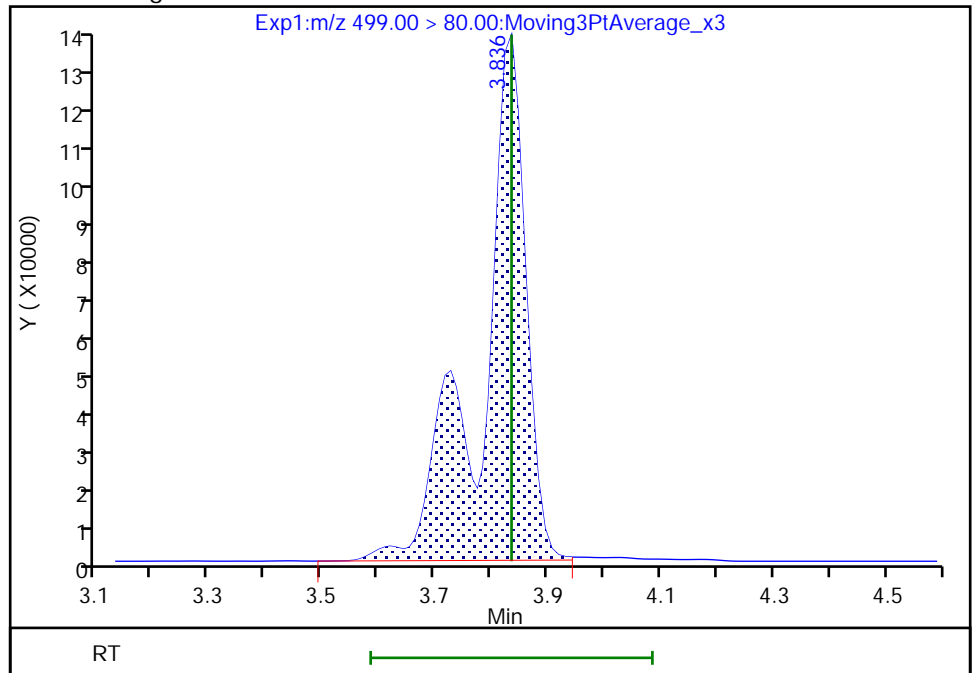
RT: 3.84
Area: 768257
Amount: 0.924912
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 752145
Amount: 0.905515
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

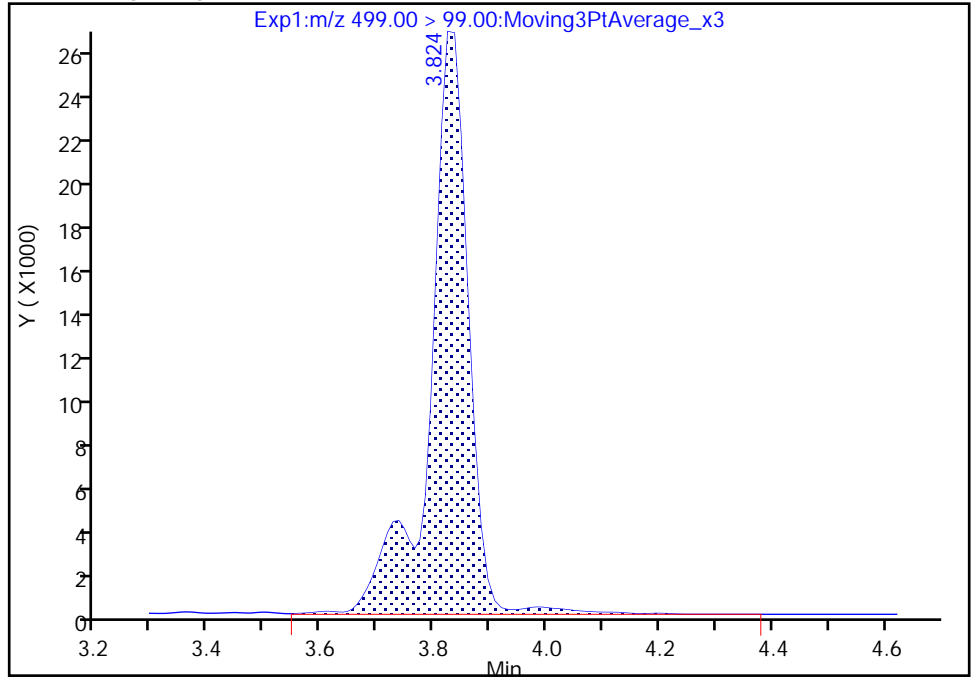
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Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

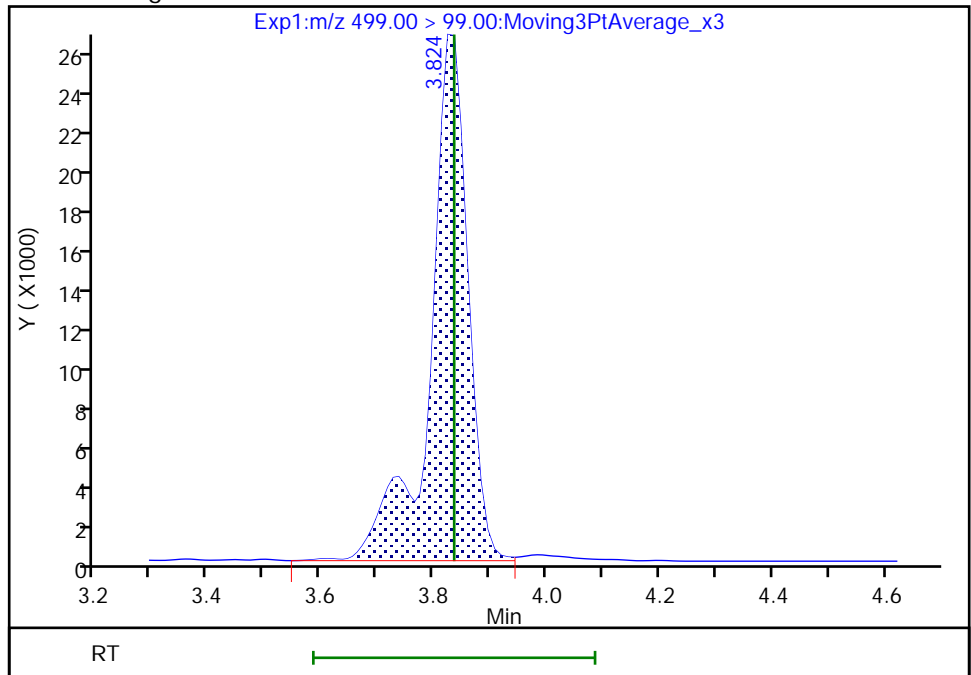
RT: 3.82
Area: 127622
Amount: 0.924912
Amount Units: ng/ml

Processing Integration Results



RT: 3.82
Area: 124658
Amount: 0.905515
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:18:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

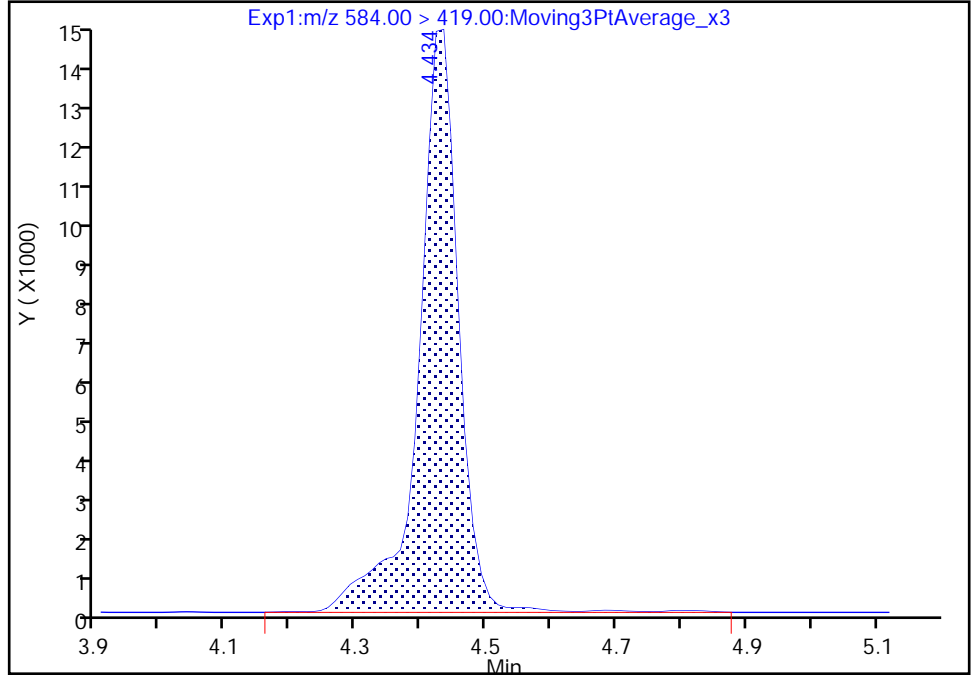
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Injection Date: 20-May-2021 17:53:37 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

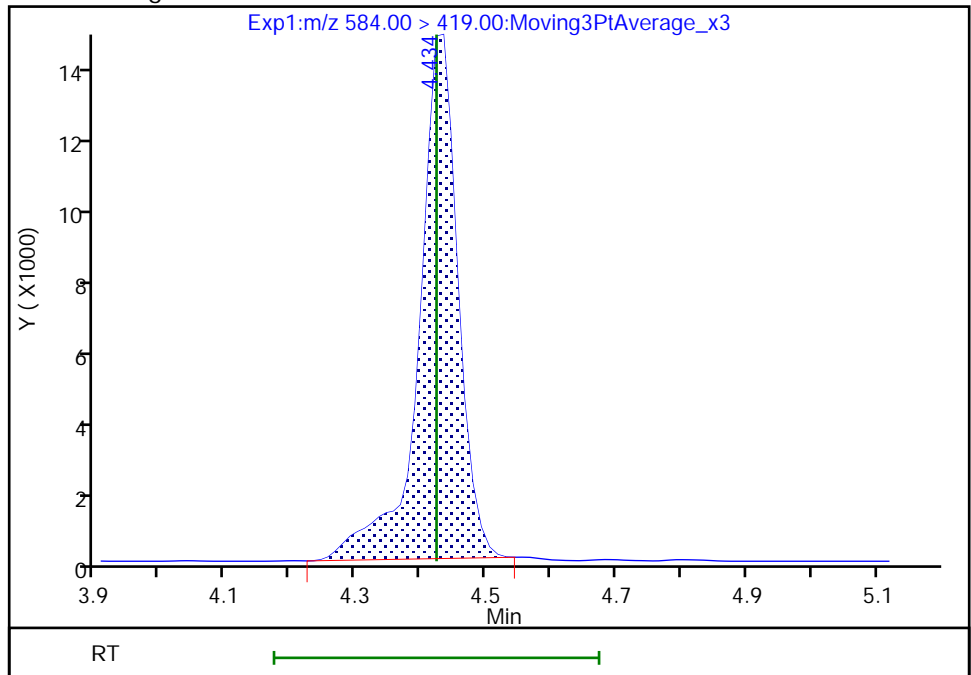
RT: 4.43
Area: 62464
Amount: 1.039895
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 60540
Amount: 1.007526
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

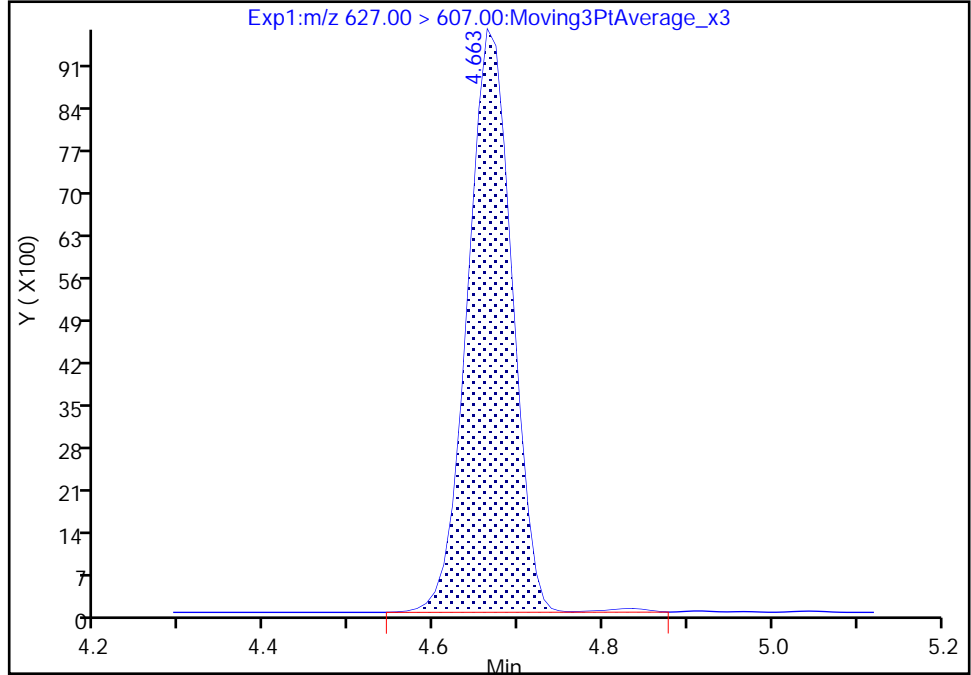
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL09.d
Injection Date: 20-May-2021 17:53:37 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

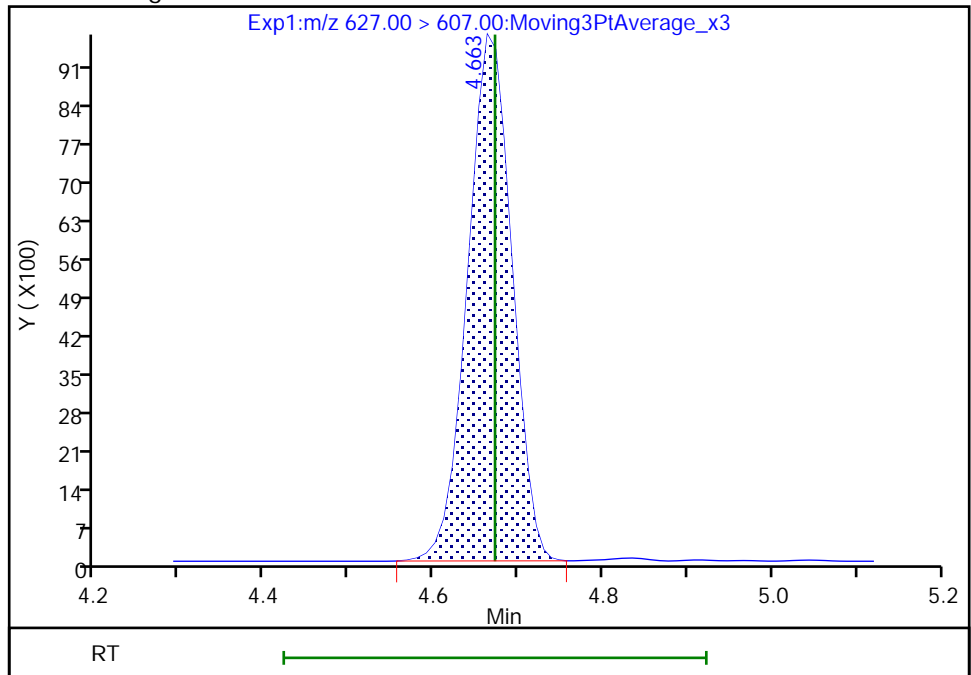
RT: 4.66
Area: 35149
Amount: 0.908003
Amount Units: ng/ml

Processing Integration Results



RT: 4.66
Area: 34902
Amount: 0.901622
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:18:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

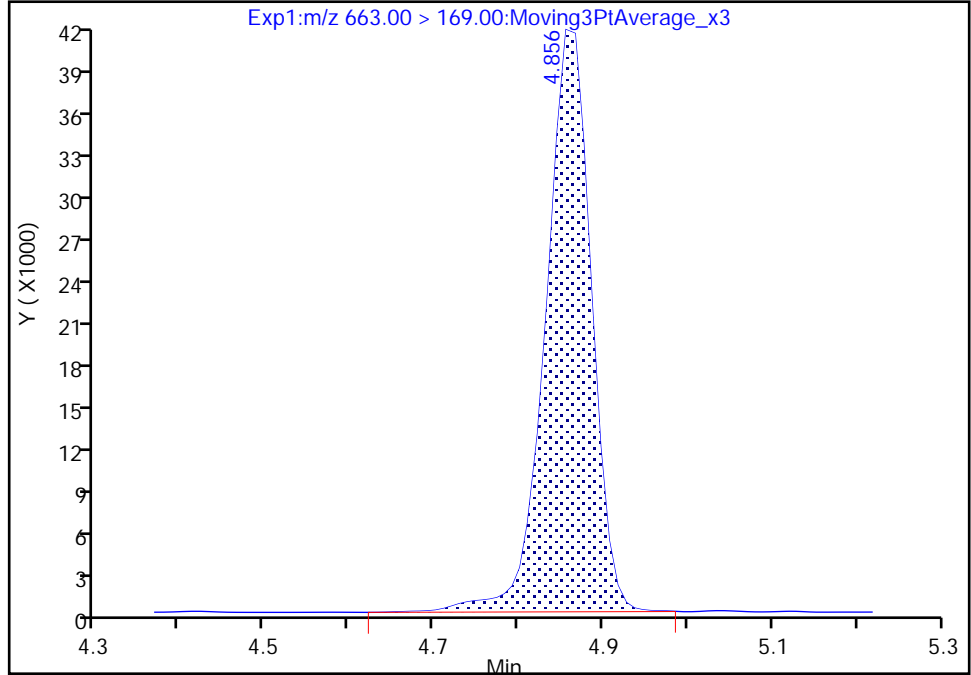
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL09.d
Injection Date: 20-May-2021 17:53:37 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

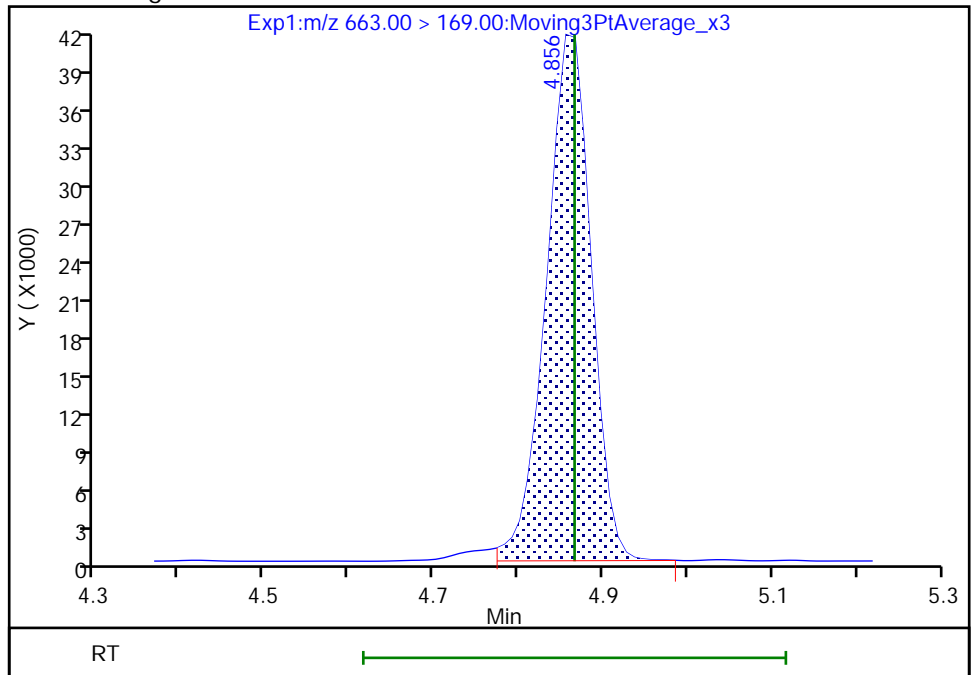
RT: 4.86
Area: 154574
Amount: 0.919291
Amount Units: ng/ml

Processing Integration Results



RT: 4.86
Area: 151613
Amount: 0.919291
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:18:48
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

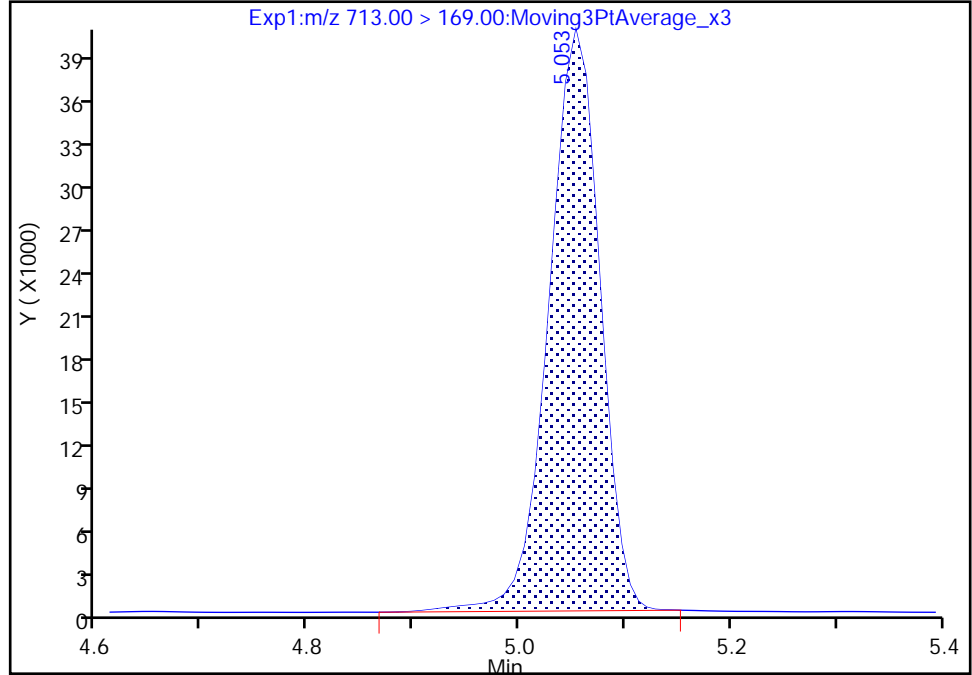
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL09.d
Injection Date: 20-May-2021 17:53:37 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

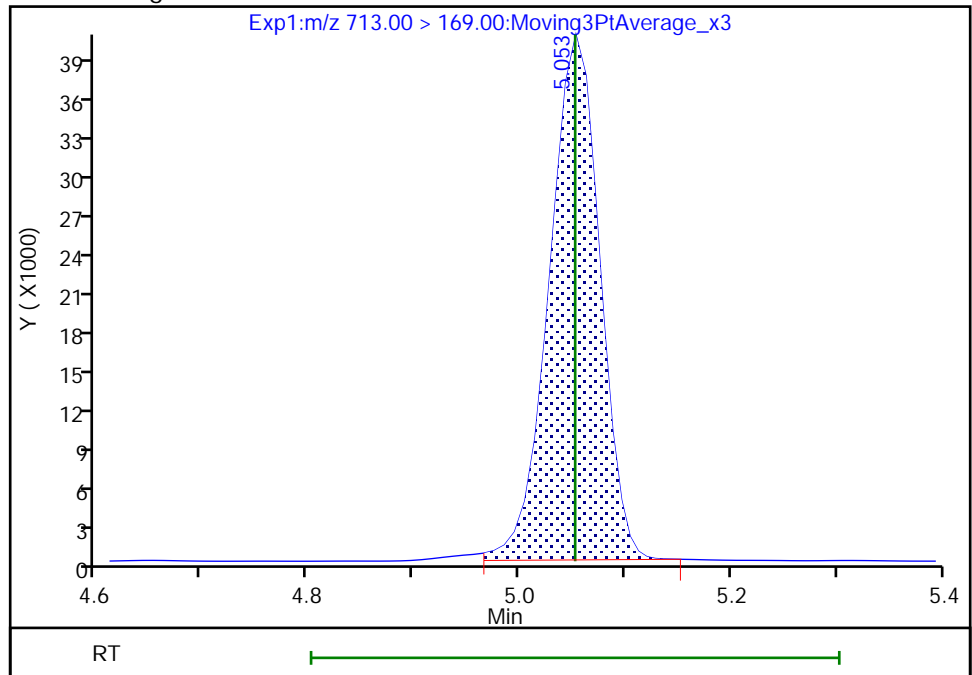
RT: 5.05
Area: 134936
Amount: 1.109152
Amount Units: ng/ml

Processing Integration Results



RT: 5.05
Area: 133722
Amount: 1.099173
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

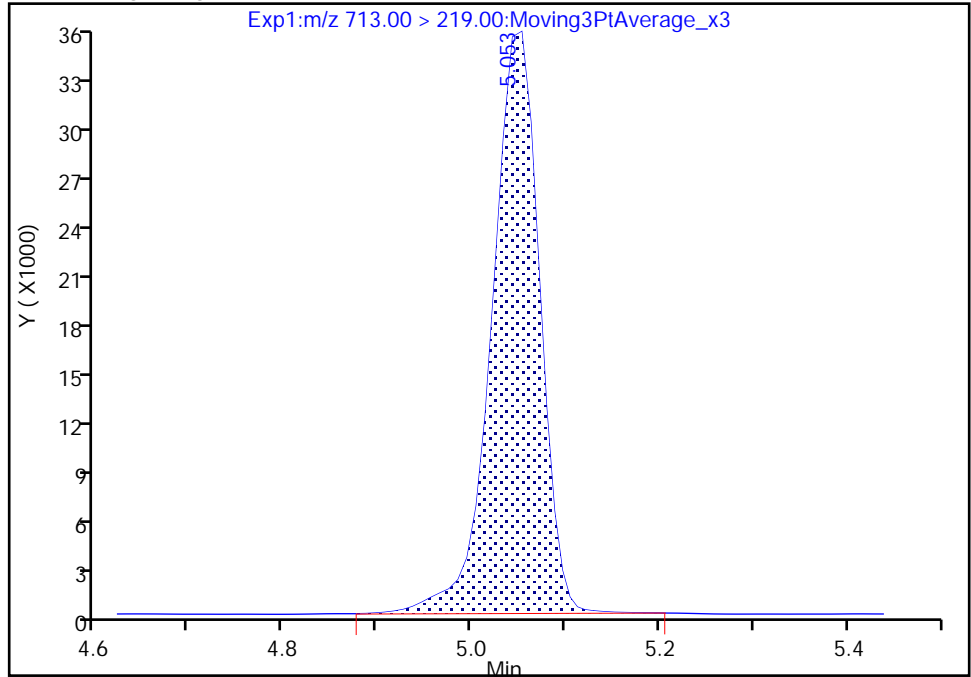
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL09.d
Injection Date: 20-May-2021 17:53:37 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

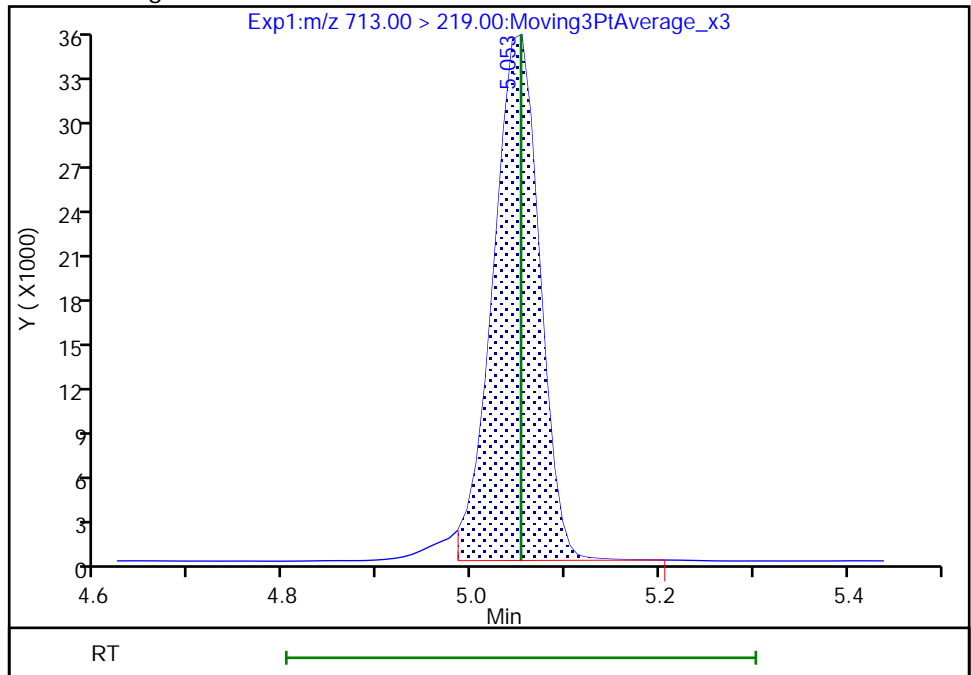
RT: 5.05
Area: 126949
Amount: 1.109152
Amount Units: ng/ml

Processing Integration Results



RT: 5.05
Area: 123087
Amount: 1.099173
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:18:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: CCVL 200-167169/2 Calibration Date: 05/21/2021 16:15
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210521AAA02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9349	1.121		0.150	0.125	19.9	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.011	1.129		0.0558	0.0500	11.7	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.030	1.023		0.0439	0.0442	-0.8	50.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.743	2.004		0.0537	0.0467	15.0	50.0
Perfluoroheptanoic acid (PFHxA)	AveID	1.012	1.029		0.0508	0.0500	1.7	50.0
Perfluoropentanesulfonic acid	AveID	1.218	1.346		0.0519	0.0469	10.6	50.0
HFPO-DA	AveID	1.655	1.794		0.108	0.100	8.4	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.009	1.159		0.0574	0.0500	14.9	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.109	1.319		0.0541	0.0455	19.0	50.0
DONA	AveID	3.141	3.288		0.0493	0.0471	4.7	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.8971	1.141		0.151	0.119	27.2	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.242	1.340		0.0514	0.0476	7.9	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.027	1.092		0.0532	0.0500	6.3	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.077	1.128		0.0486	0.0464	4.8	50.0
Perfluorononanoic acid (PFNA)	AveID	0.9633	1.028		0.0534	0.0500	6.7	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.036	1.145		0.0515	0.0466	10.5	50.0
Perfluorononanesulfonic acid	AveID	0.8018	0.8736		0.0523	0.0480	8.9	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.046	1.160		0.0554	0.0500	10.9	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.5017	0.5821		0.0556	0.0479	16.0	50.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9783	1.026		0.0524	0.0500	4.8	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8791	0.9463		0.135	0.125	7.6	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6311	0.7727		0.0590	0.0482	22.4	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9891	1.087		0.0549	0.0500	9.8	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	L1ID		0.9911		0.132	0.125	5.3	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.9218	0.9938		0.0508	0.0471	7.8	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.003	1.048		0.0523	0.0500	4.5	50.0
10:2 FTS	AveID	0.2574	0.2418		0.0453	0.0482	-6.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2153	0.2061		0.0463	0.0484	-4.3	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8085	0.8395		0.0519	0.0500	3.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2045	0.2276		0.0556	0.0500	11.3	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: CCVL 200-167169/2 Calibration Date: 05/21/2021 16:15
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210521AAA02.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.234		0.0533	0.0500	6.6	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8543	0.8213		0.0481	0.0500	-3.9	50.0
13C4 PFBA	Ave	1.253	1.331		1.33	1.25	6.2	50.0
13C5 PFPeA	Ave	0.9108	0.9459		1.30	1.25	3.8	50.0
13C3 PFBS	Ave	1.138	1.149		1.17	1.16	0.9	50.0
M2-4:2 FTS	Ave	0.0884	0.0923		1.22	1.17	4.5	50.0
13C2 PFHxA	Ave	0.9887	1.050		1.33	1.25	6.2	50.0
13C3 HFPO-DA	Ave	0.1094	0.1218		1.39	1.25	11.3	50.0
13C4 PFHpA	Ave	0.9882	1.024		1.30	1.25	3.7	50.0
18O2 PFHxS	Ave	0.8838	0.8609		1.15	1.18	-2.6	50.0
M2-6:2 FTS	Ave	0.1171	0.1198		1.22	1.19	2.4	50.0
13C4 PFOA	Ave	1.001	1.083		1.35	1.25	8.2	50.0
13C4 PFOS	Ave	0.6377	0.6462		1.21	1.20	1.3	50.0
13C5 PFNA	Ave	0.9222	0.9596		1.30	1.25	4.1	50.0
13C2 PFDA	Ave	0.8087	0.8412		1.30	1.25	4.0	50.0
M2-8:2 FTS	Ave	0.1200	0.1279		1.28	1.20	6.5	50.0
13C8 FOSA	Ave	1.141	1.087		1.19	1.25	-4.7	50.0
d3-NMeFOSAA	Ave	0.0547	0.0553		1.26	1.25	1.1	50.0
13C2 PFUnA	Ave	0.6487	0.6807		1.31	1.25	4.9	50.0
d5-NEtFOSAA	Ave	0.0549	0.0563		1.28	1.25	2.5	50.0
13C2 PFDoA	Ave	0.6788	0.7050		1.30	1.25	3.9	50.0
13C2 PFTeDA	Ave	0.4966	0.5092		1.28	1.25	2.5	50.0
13C2 PFHxDA	Ave	0.4862	0.5001		1.29	1.25	2.9	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
 Lims ID: CCVL
 Client ID:
 Sample Type: CCVL
 Inject. Date: 21-May-2021 16:15:50 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL
 Misc. Info.: 200-0046088-002 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 24-May-2021 13:30:49 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1616

First Level Reviewer: deannd Date: 21-May-2021 16:27:51

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	2.098	2.091	0.007	0.596	1588823	1.33	106	12106	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.098	2.100	-0.002	1.000	178075	0.1499		120	34.7	M
D 3 13C5 PFPeA	267.90 > 223.00	2.424	2.426	-0.002	0.689	1128870	1.30	104	3453	
4 Perfluoropentanoic acid	262.90 > 219.00	2.424	2.426	-0.002	1.000	50968	0.0558	112	7.8	
D 47 13C3 PFBS	301.90 > 80.00	2.437	2.439	-0.002	0.693	1274834	1.17	101	503834	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.437	2.439	-0.002	1.000	49565	0.0439	Target=2.19	99.2	86.9	M
298.90 > 99.00	2.437	2.439	-0.002	1.000	22811		2.17(1.09-3.28)		18.7	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.744	2.746	-0.002	0.780	102895	1.22	104	141	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.744	2.746	-0.002	1.000	8249	0.0537		115	155	M
D 7 13C2 PFHxA	315.00 > 270.00	2.780	2.782	-0.002	0.790	1252724	1.33	106	2371	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.780	2.782	-0.002	1.000	51572	0.0508	Target=12.12	102	17.4	M
313.00 > 119.00	2.780	2.782	-0.002	1.000	5708		9.04(6.06-18.18)		13.8	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.792	2.795	-0.002	0.885	51904	0.0519	Target=3.58	111	142	
349.00 > 99.00	2.792	2.795	-0.002	0.885	14178		3.66(1.79-5.37)		30.1	M
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.890	2.892	-0.002	1.000	20858	0.1084		108	10.1	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	2.890	2.902	-0.012	0.821	145346	1.39		111	1682	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.154	0.0	0.896	972001	1.15		97.4	1398	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.154	0.0	1.000	49341	0.0541	Target=4.23	119	194	M
399.00 > 99.00	3.154	3.154	0.0	1.000	11791		4.18(2.12-6.35)	17.8		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.154	0.0	0.896	1222614	1.30		104	3071	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.154	3.164	-0.010	1.000	56668	0.0574	Target=3.49	115	36.2	M
363.00 > 169.00	3.154	3.164	-0.010	1.000	15041		3.77(1.75-5.24)	41.9		M
77 DONA										
377.00 > 251.00	3.197	3.196	0.001	0.833	95538	0.0493	Target=2.43	105	251	
377.00 > 85.00	3.197	3.196	0.001	0.833	38781		2.46(1.21-3.64)	93.4		
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.510	3.510	0.0	0.915	39362	0.0514	Target=6.21	108	254	M
449.00 > 99.00	3.510	3.510	0.0	0.915	5378		7.32(3.10-9.31)	24.2		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	135862	1.22		102	591	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	15475	0.1508		127	192	M
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1291970	1.35		108	4109	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1193456	1.25		136		M
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	56448	0.0532	Target=2.53	106	28.2	M
413.00 > 169.00	3.519	3.519	0.0	1.000	22049		2.56(1.27-3.80)	77.8		M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	737269	1.21		101	2876	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	32289	0.0486	Target=6.09	105	13.8	M
499.00 > 99.00	3.836	3.836	0.0	1.000	5430		5.95(3.04-9.13)	10.7		M
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	47086	0.0534	Target=6.34	107	21.3	
463.00 > 169.00	3.859	3.858	0.001	1.000	7620		6.18(3.17-9.51)	94.7		
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.097	1145230	1.30		104	3631	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	4.002	4.002	0.0	1.043	32919	0.0515		111	125	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	25870	0.0523	Target=2.95	109	347	
549.00 > 99.00	4.126	4.126	0.0	1.076	9246		2.80(1.47-4.42)	48.1		
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.160	0.0	1.182	1003944	1.30		104	2955	

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	4.160	0.0	1.000	46585	0.0554	Target=7.79	111	53.4	
513.00 > 169.00	4.160	4.160	0.0	1.000	6622		7.03(3.90-11.69)		55.6	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.171	-0.011	1.182	146201	1.28		107	743	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.171	4.171	0.0	1.003	3404	0.0556		116	88.8	M
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.225	0.0	1.201	1297546	1.19		95.3	2569	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.225	0.0	1.000	53226	0.0524		105	294	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.303	4.302	0.0	1.223	65986	1.26		101	643	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.303	4.302	0.0	1.000	6244	0.1346		108	36.1	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.391	0.0	1.145	22979	0.0590	Target=2.87	122	417	
599.00 > 99.00	4.391	4.391	0.0	1.145	7015		3.28(1.44-4.31)		53.6	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.424	0.0	1.000	35309	0.0549	Target=7.94	110	70.3	
563.00 > 169.00	4.424	4.424	0.0	1.000	5096		6.93(3.97-11.91)		78.2	
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.424	0.0	1.257	812439	1.31		105	2381	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.435	4.434	0.001	1.260	67147	1.28		102	741	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.435	4.434	0.001	1.000	6655	0.1316		105	80.5	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.518	4.518	0.0	1.178	28880	0.0508		108	346	
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.653	0.0	1.322	841391	1.30		104	6232	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.000	35275	0.0523	Target=5.94	105	17.1	
613.00 > 169.00	4.653	4.653	0.0	1.000	6177		5.71(2.97-8.92)		108	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.672	4.673	-0.001	1.123	1423	0.0453		93.9	59.0	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.822	4.834	-0.012	1.257	6154	0.0463	Target=0.44	95.7	189	M
699.00 > 99.00	4.822	4.834	-0.012	1.257	12696		0.48(0.22-0.66)		163	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.866	4.867	-0.001	1.046	28254	0.0519	Target=3.97	104	23.7	
663.00 > 169.00	4.866	4.867	-0.001	1.046	7716		3.66(1.99-5.96)		156	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.062	5.063	-0.001	1.439	607669	1.28		103	4172	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.062	5.063	-0.001	1.000	5532	0.0556	Target=1.01	111	167	M
713.00 > 219.00	5.053	5.063	-0.010	0.998	4470		1.24(0.51-1.52)		167	

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	5.417	5.416	0.001	1.539	596857	1.29		103	2337	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.417	5.416	0.001	1.000	29465	0.0533	Target=3.56	107	29.2	
813.00 > 169.00	5.417	5.416	0.001	1.000	8461		3.48(1.78-5.34)		203	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.757	5.756	0.001	1.063	19609	0.0481	Target=3.39	96.1	28.1	
913.00 > 169.00	5.757	5.756	0.001	1.063	5779		3.39(1.70-5.09)		242	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00015

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d

Injection Date: 21-May-2021 16:15:50

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

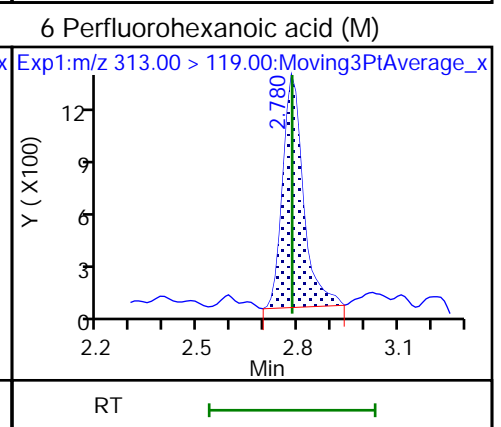
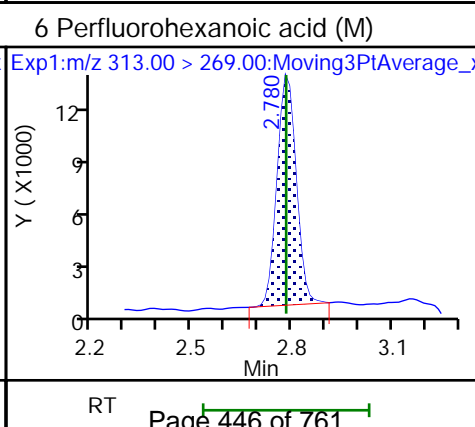
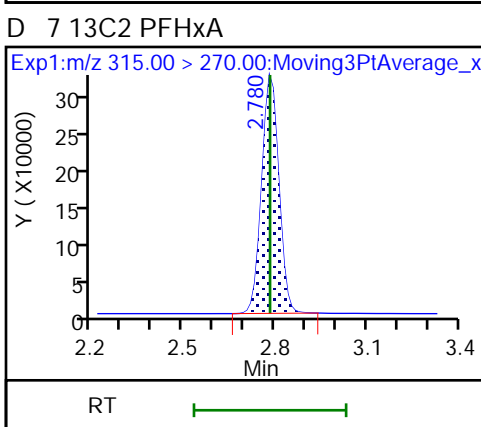
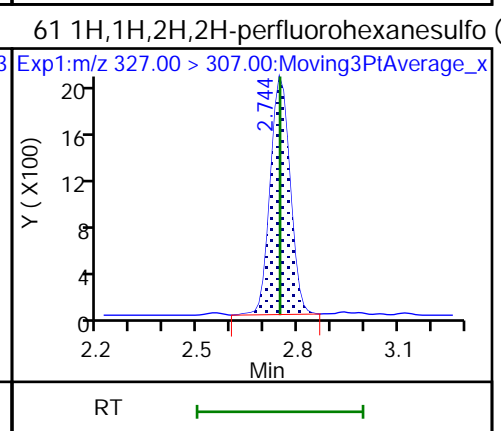
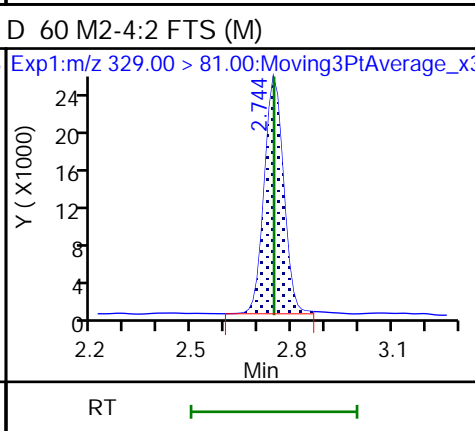
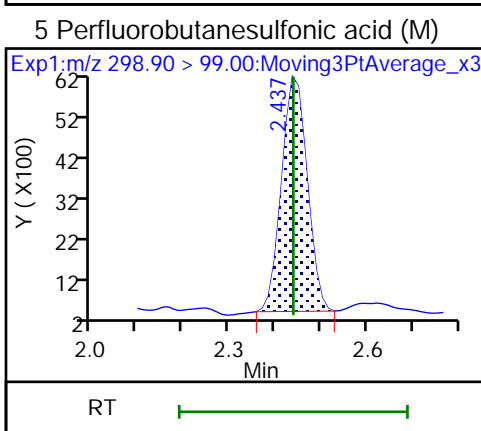
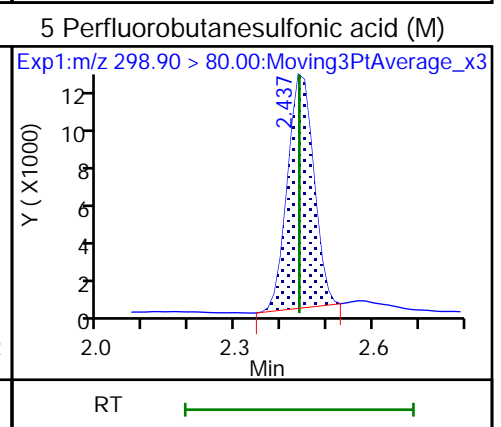
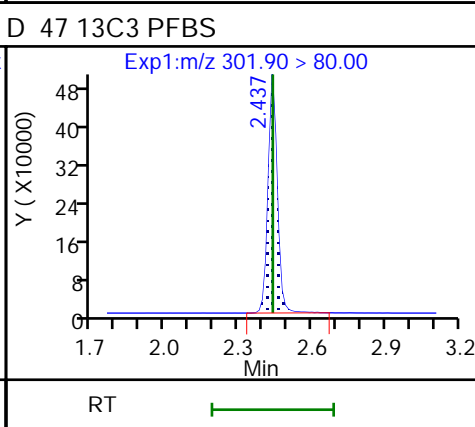
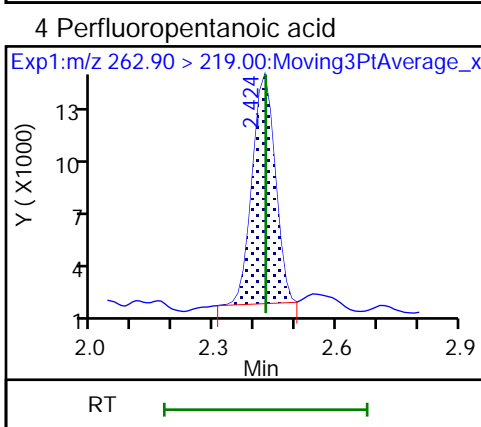
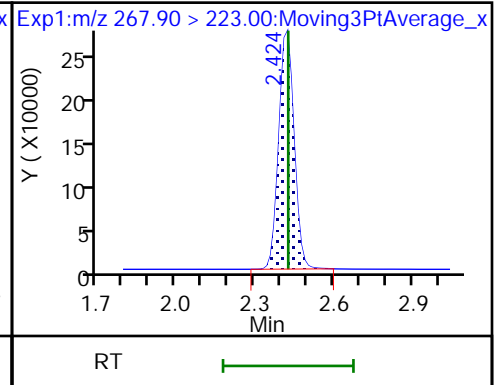
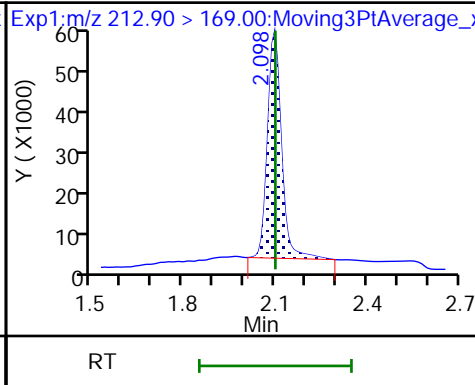
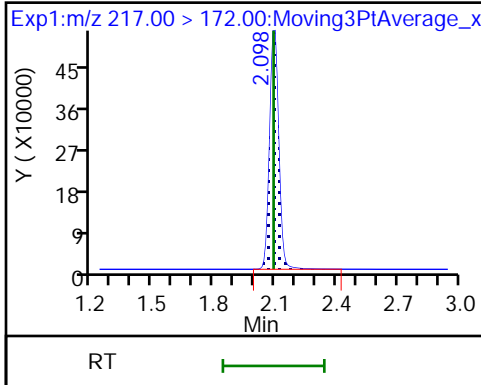
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

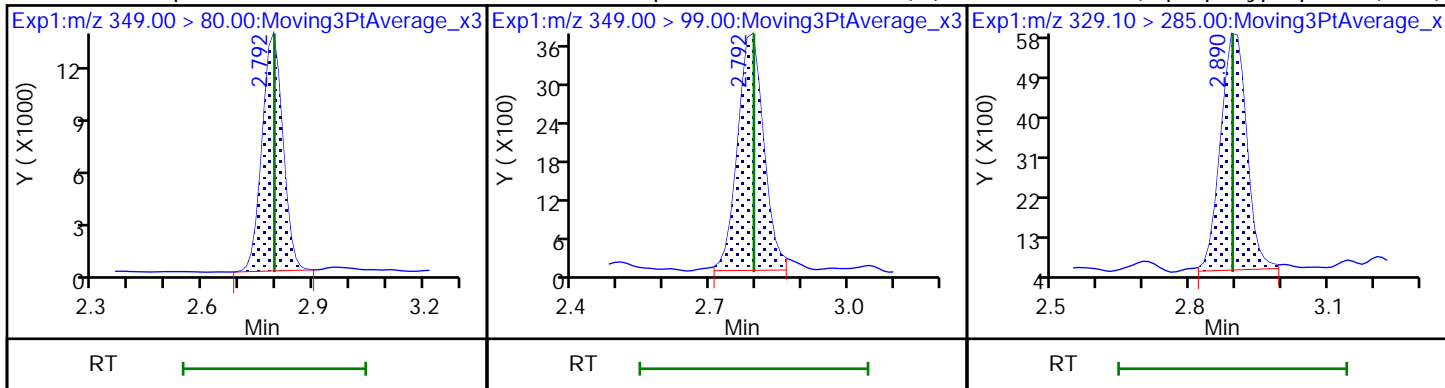
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

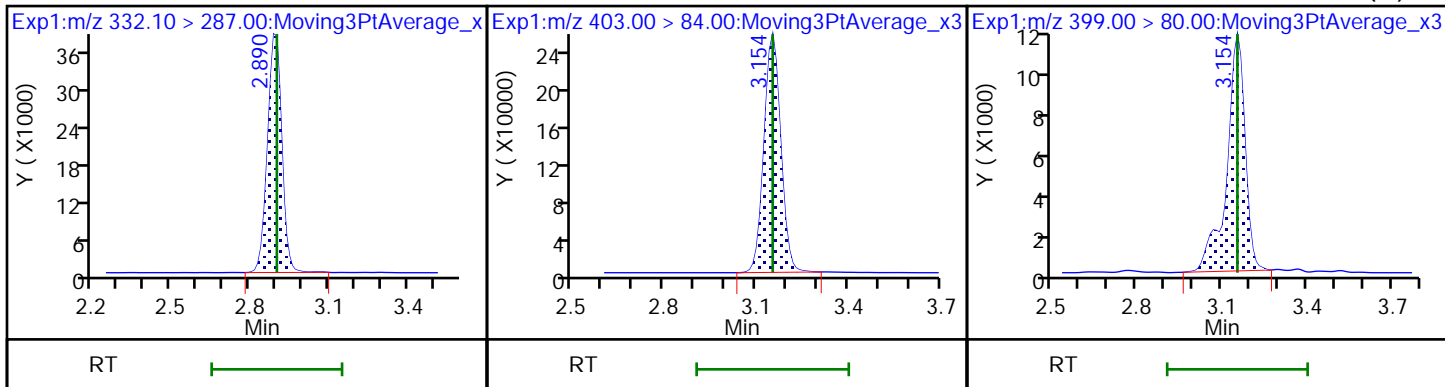
D 3 13C5 PFPeA



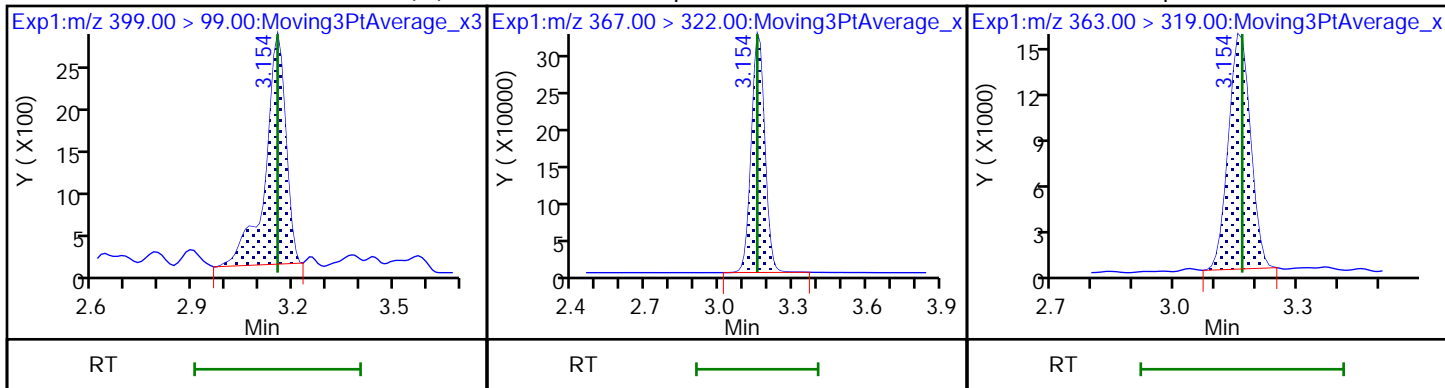
70 Perfluoropentanesulfonic acid 70 Perfluoropentanesulfonic acid (M) 67 Perfluoro(2-propoxypropanoic) ac (M)



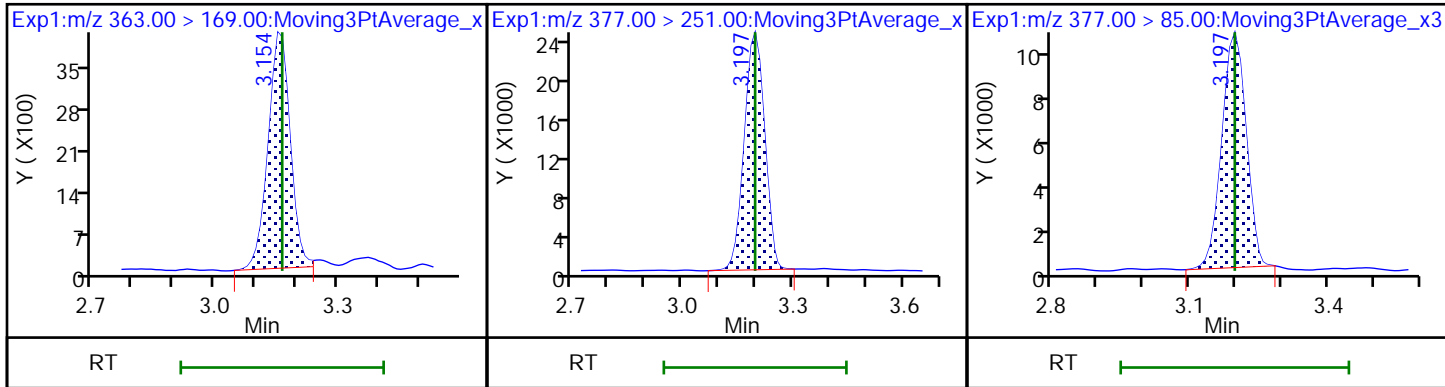
D 64 13C3 HFPO-DA D 11 18O2 PFHxS 8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M) D 9 13C4 PFHpA 10 Perfluoroheptanoic acid



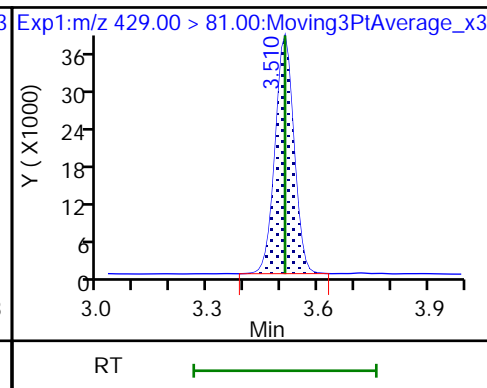
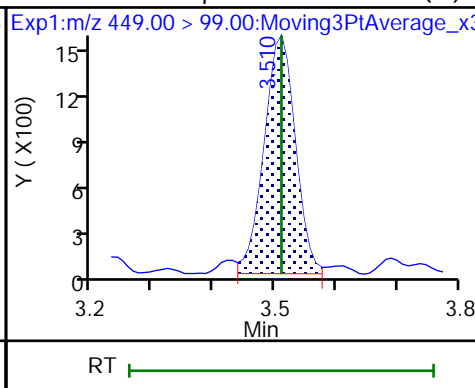
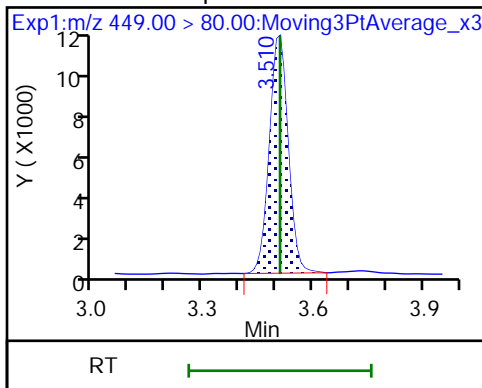
10 Perfluoroheptanoic acid (M) 77 DONA 77 DONA



16 Perfluoroheptanesulfonic acid

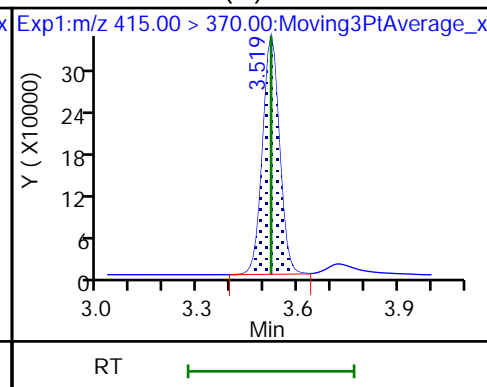
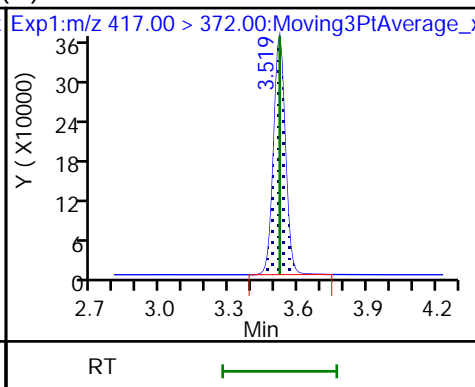
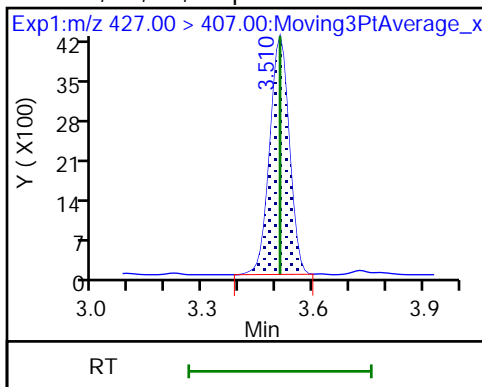
16 Perfluoroheptanesulfonic acid (M)

D 12 M2-6:2 FTS



13 1H,1H,2H,2H-perfluorooctanesulfo (M) 14 13C4 PFOA

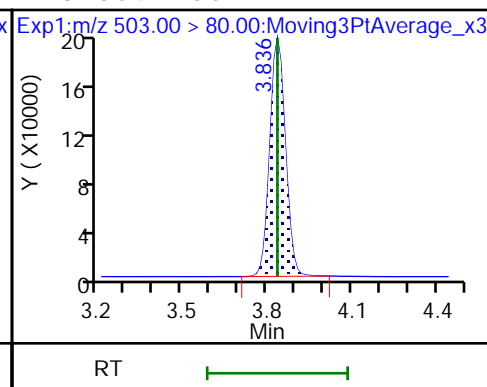
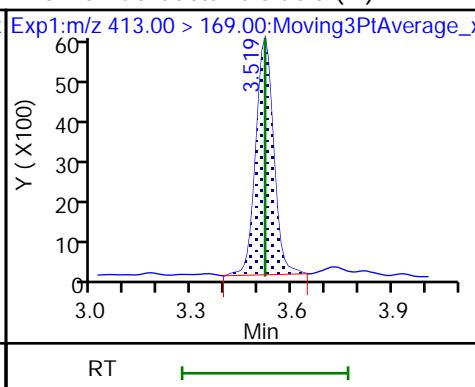
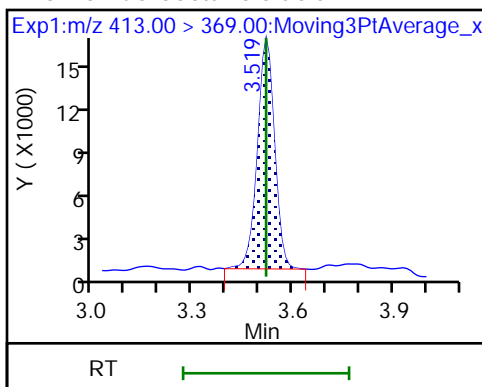
* 62 13C2 PFOA (M)



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

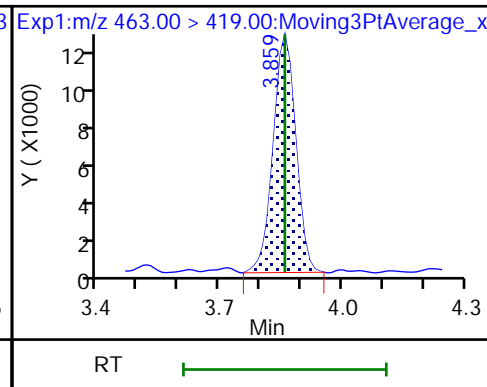
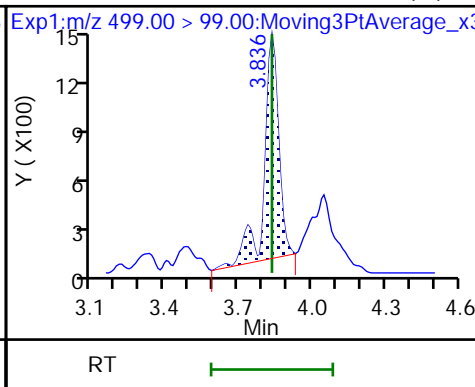
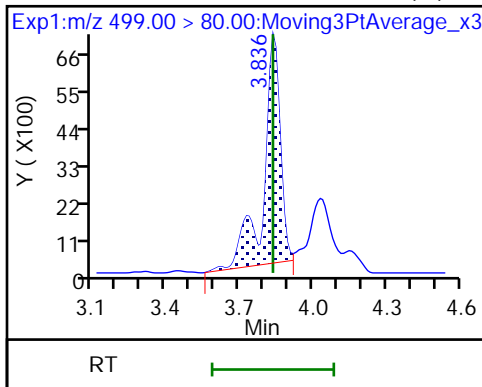
D 18 13C4 PFOS

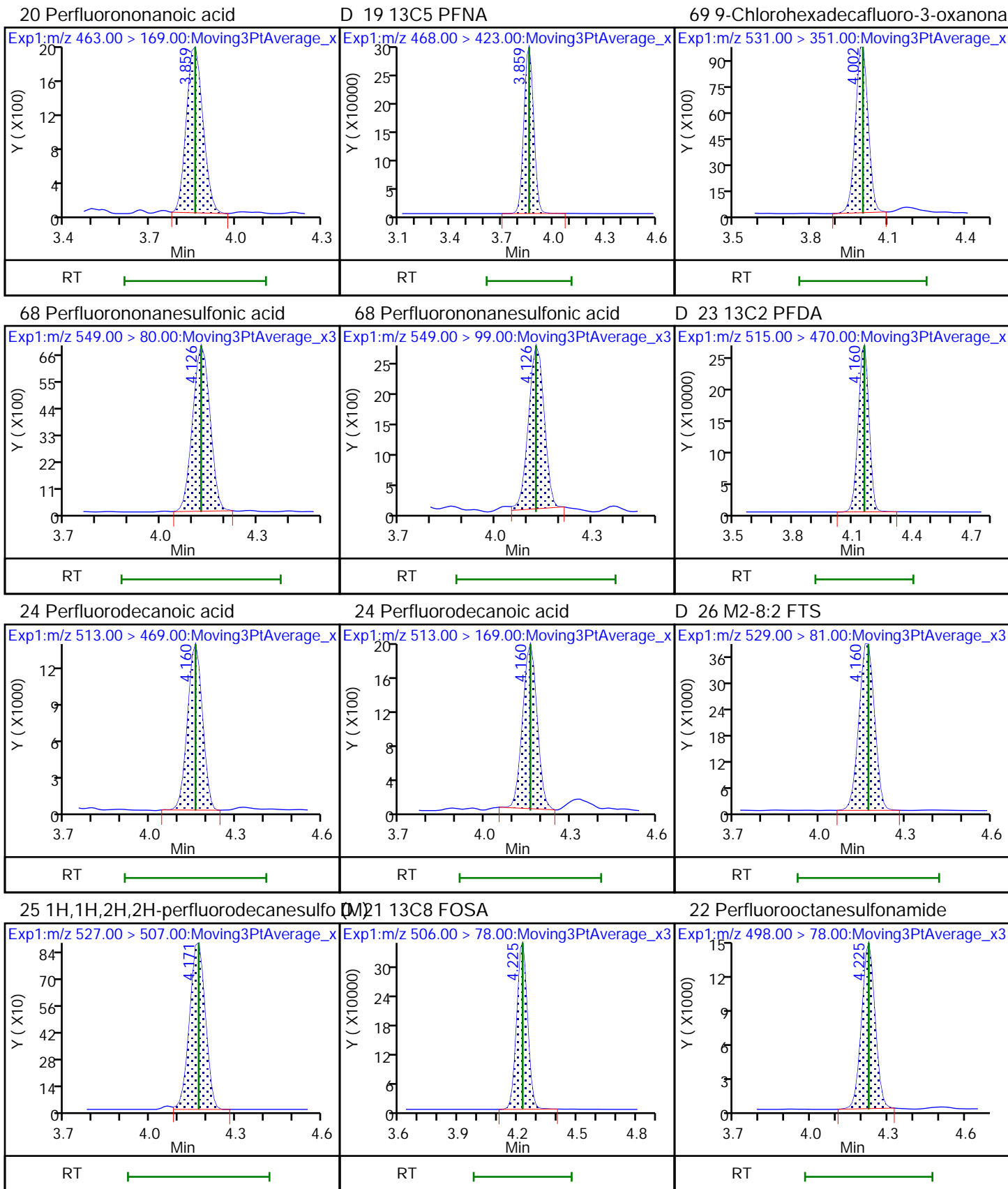


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

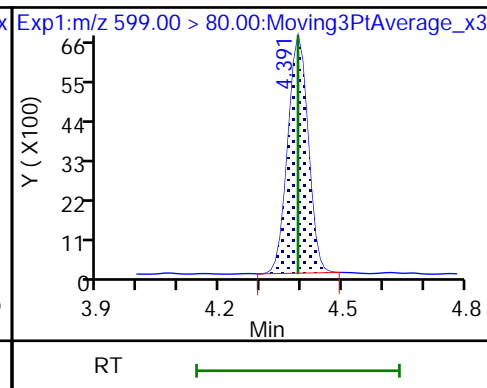
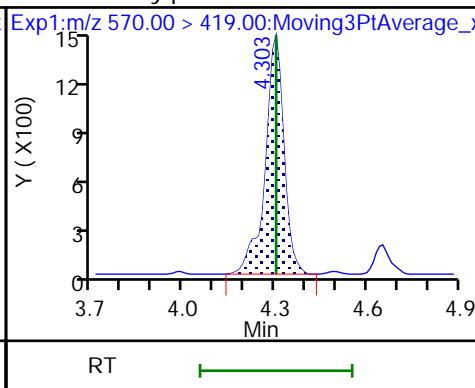
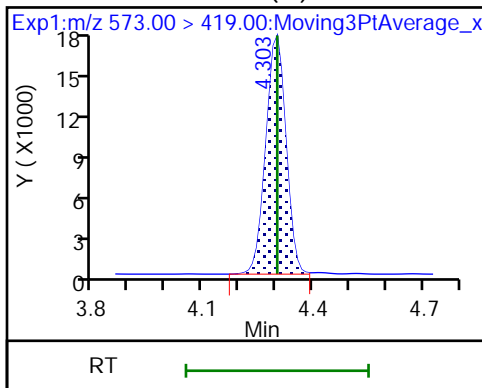




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami

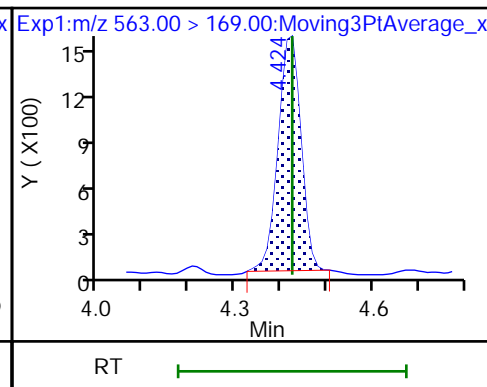
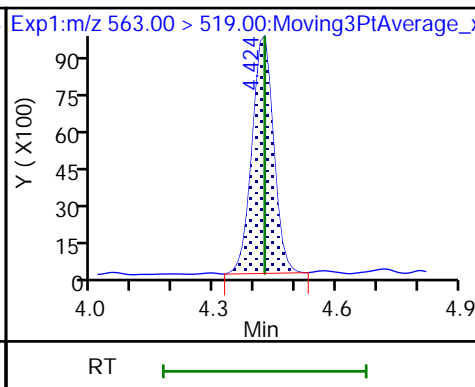
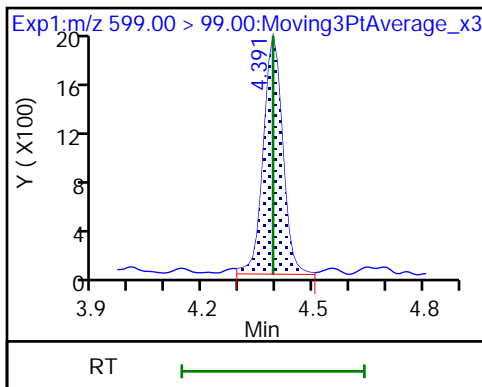
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

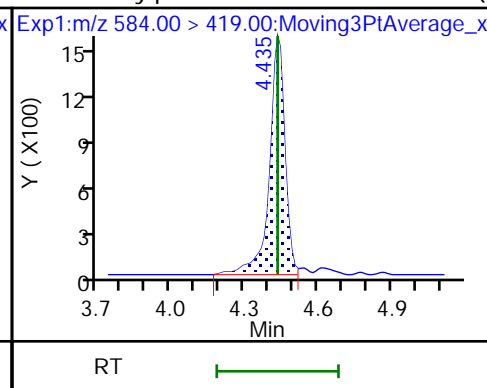
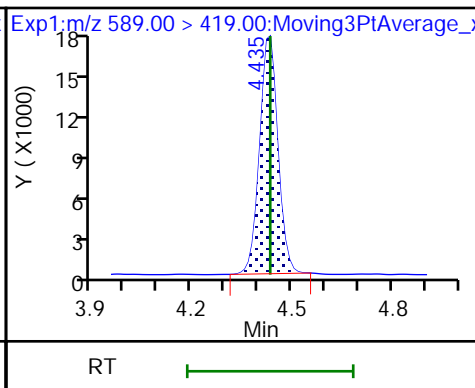
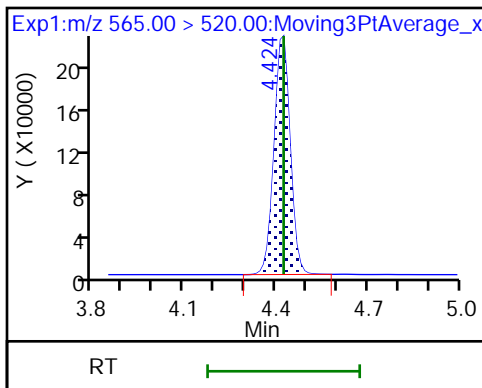
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

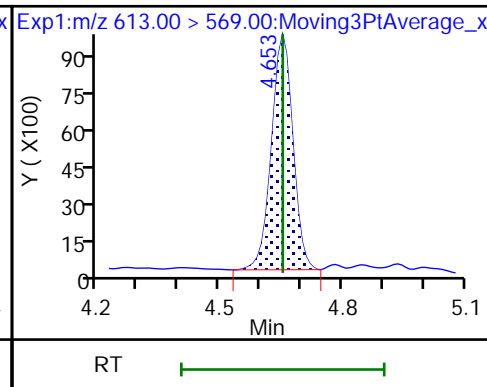
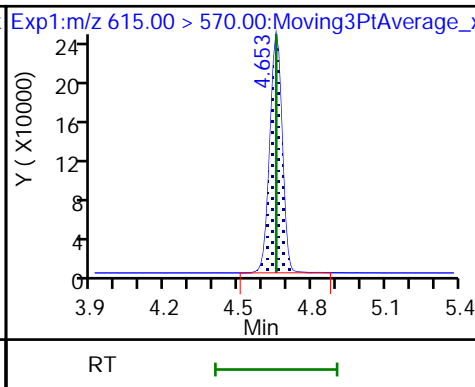
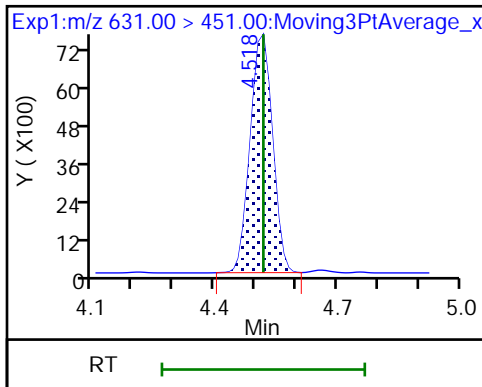
33 N-ethylperfluorooctanesulfonamid (M)

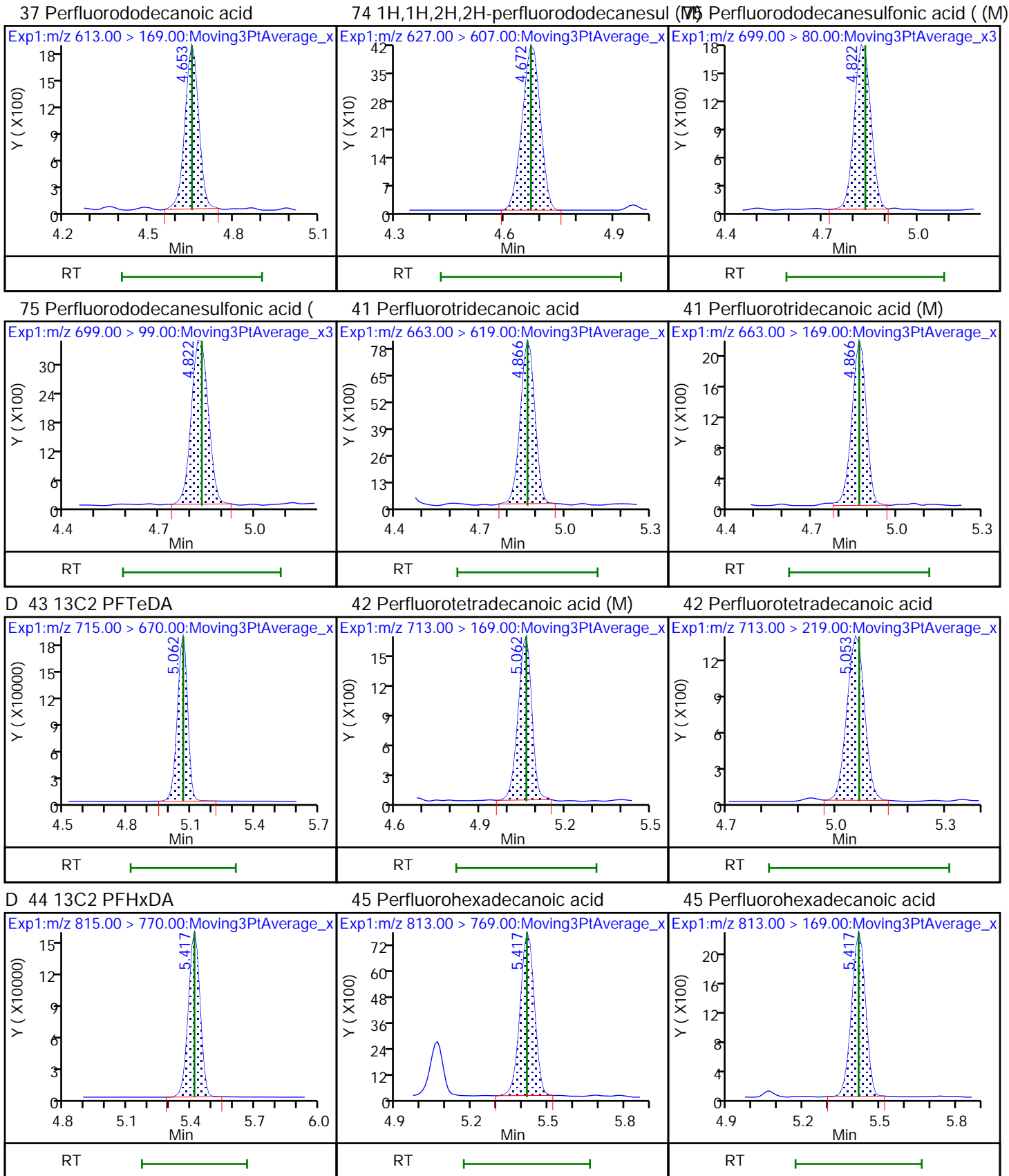


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

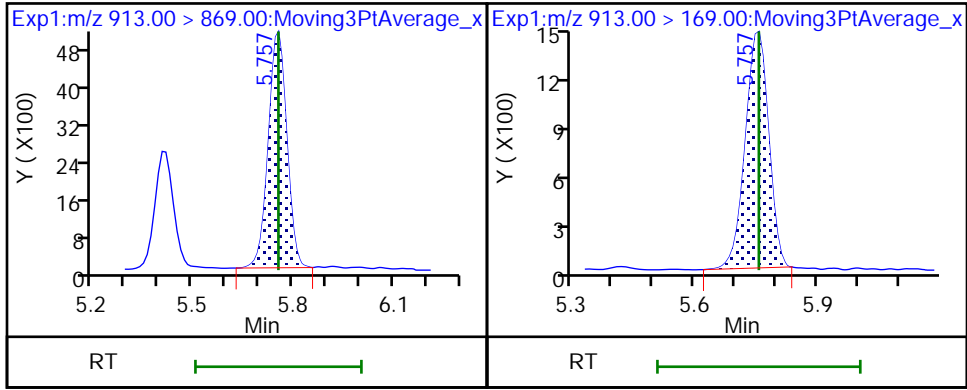
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



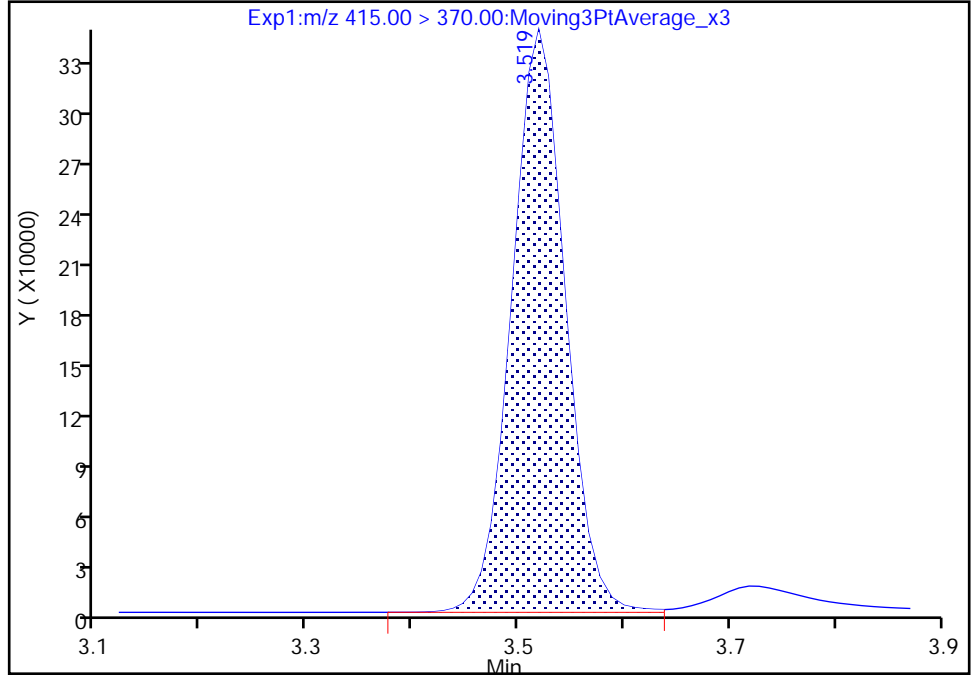
Eurofins TestAmerica, Burlington

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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
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

* 62 13C2 PFOA, CAS: STL00623
Signal: 1

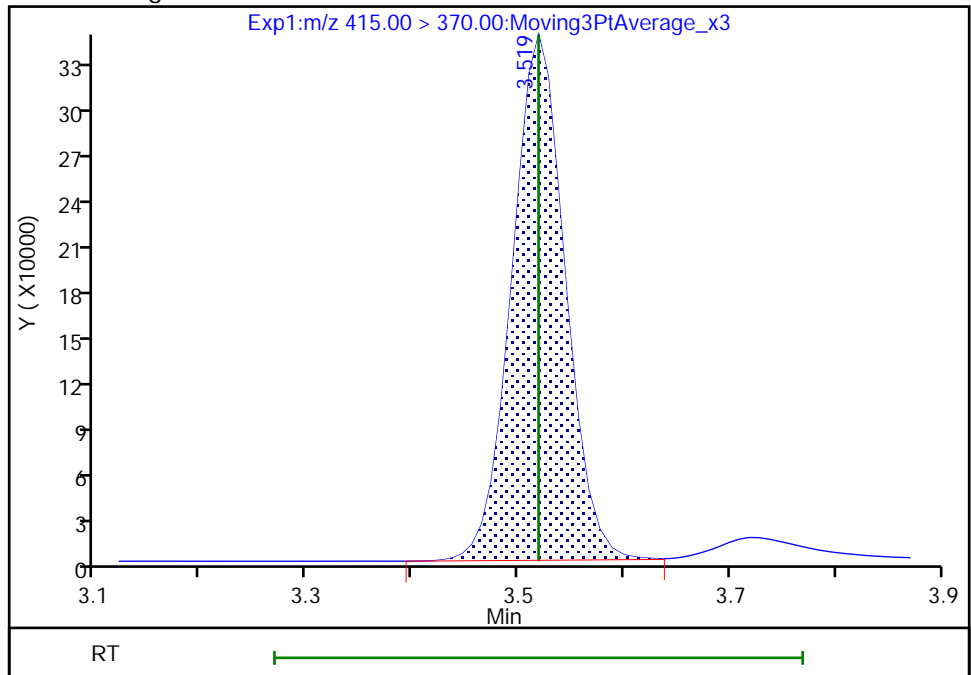
RT: 3.52
Area: 1202013
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1193456
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 09:47:26
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

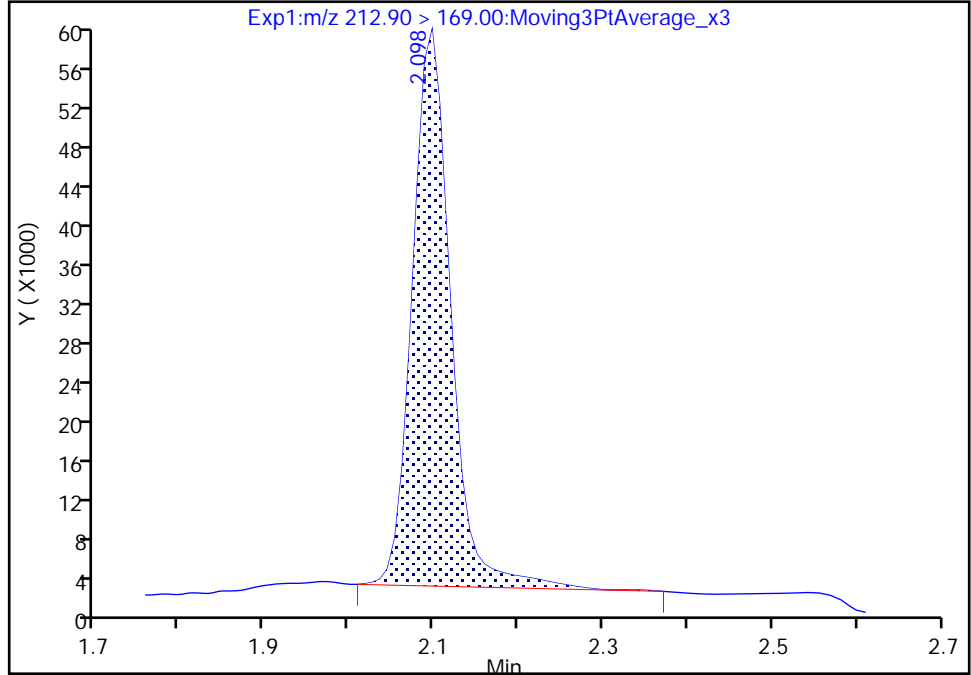
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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

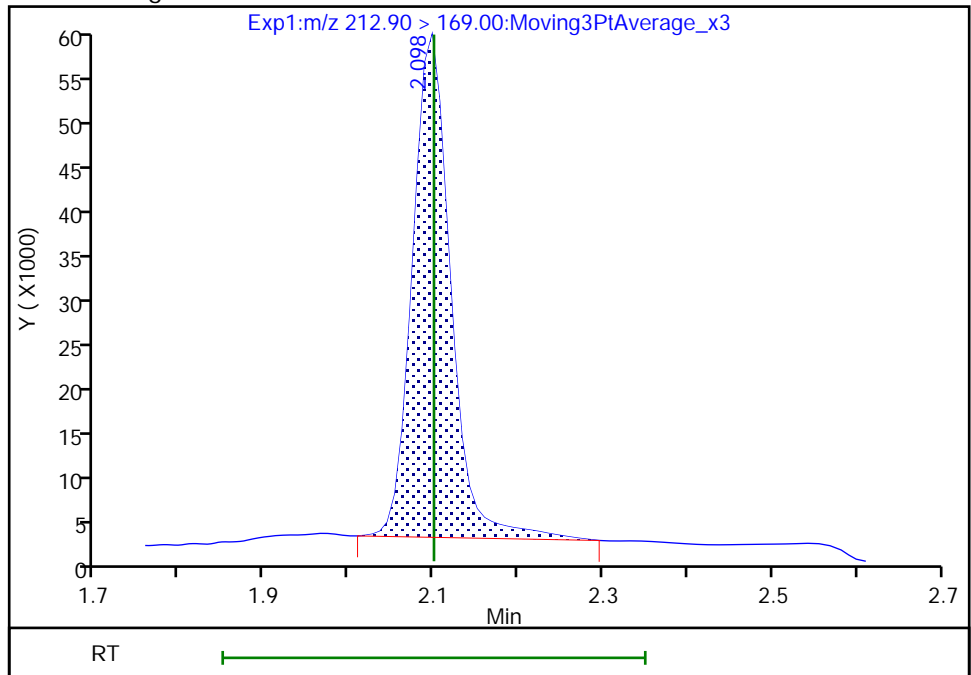
RT: 2.10
Area: 178757
Amount: 0.150430
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 178075
Amount: 0.149856
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 21-May-2021 16:27:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

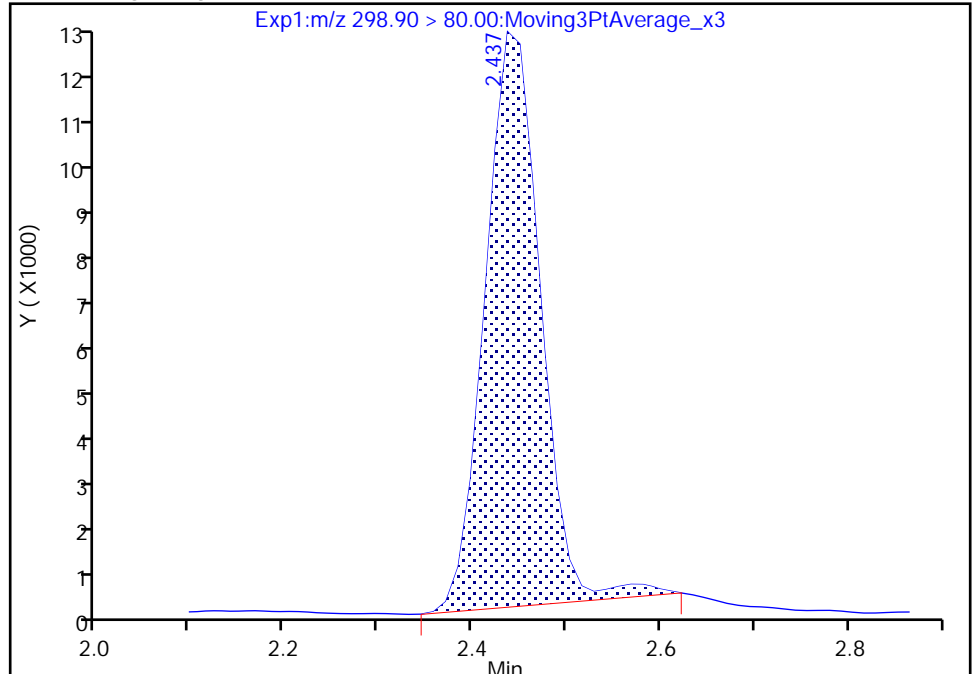
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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

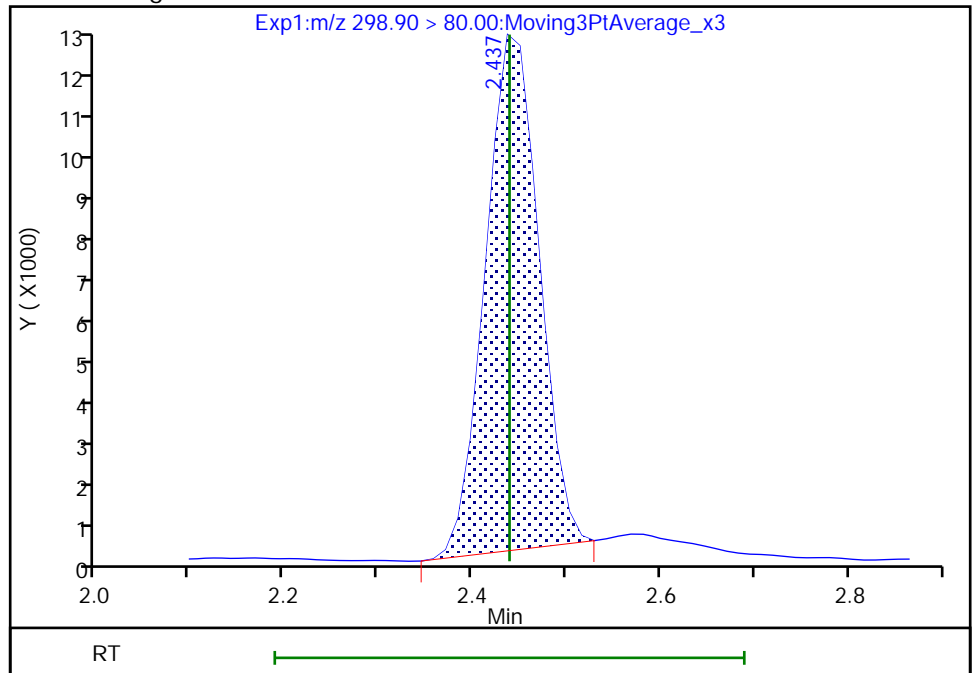
RT: 2.44
Area: 51670
Amount: 0.045731
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 49565
Amount: 0.043868
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:21:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

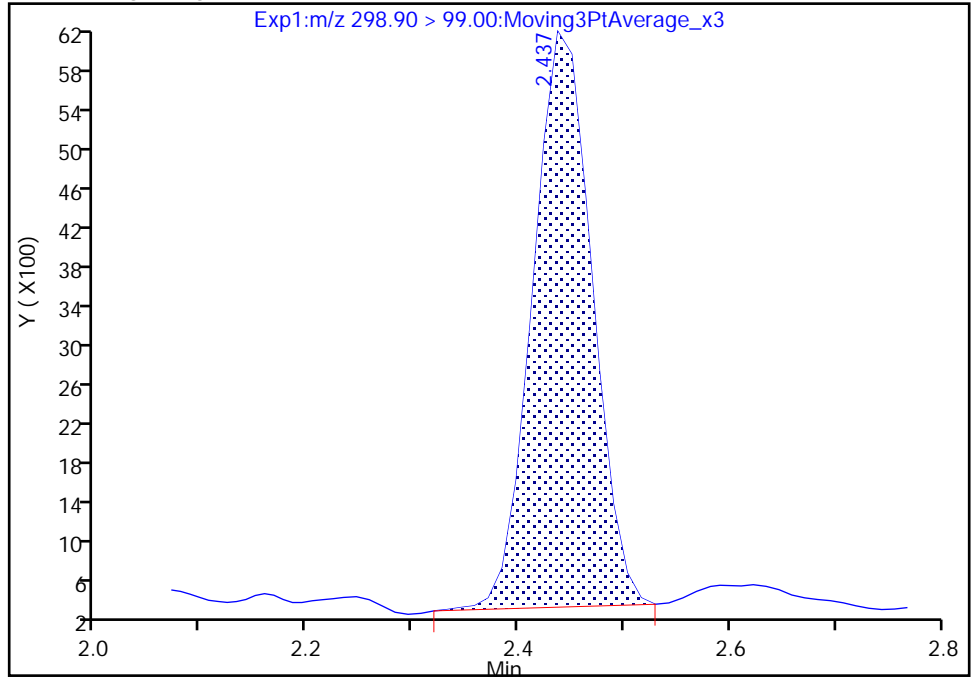
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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

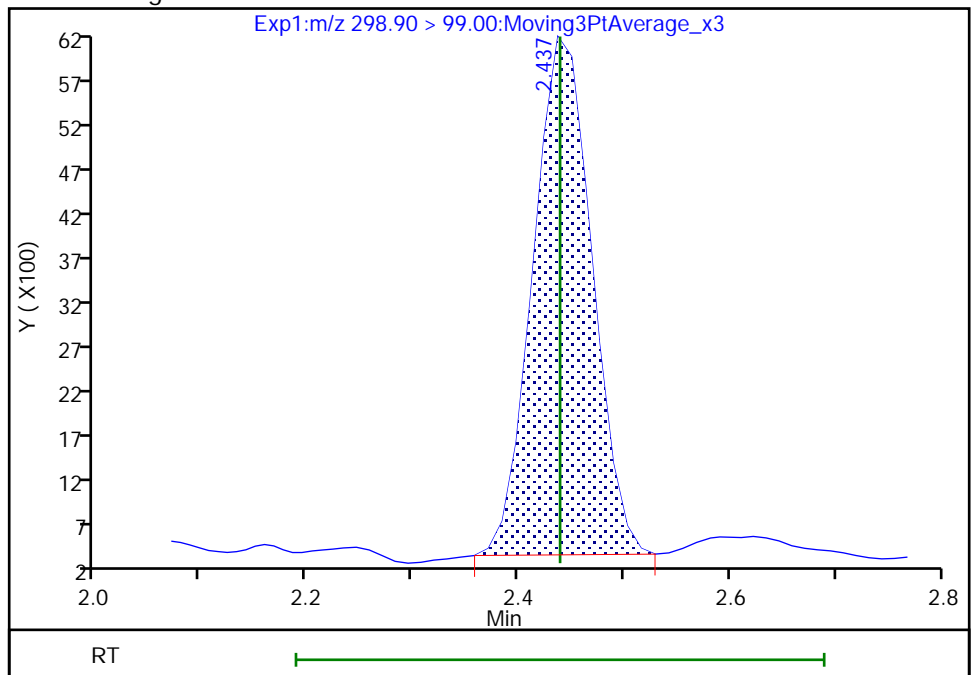
RT: 2.44
Area: 23056
Amount: 0.045731
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 22811
Amount: 0.043868
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:21:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

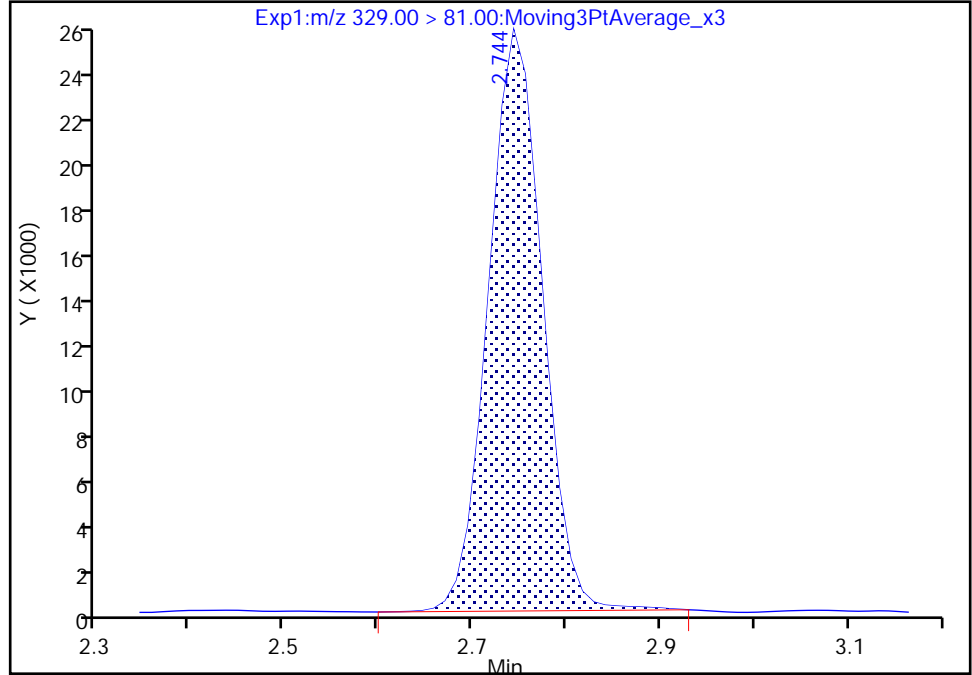
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

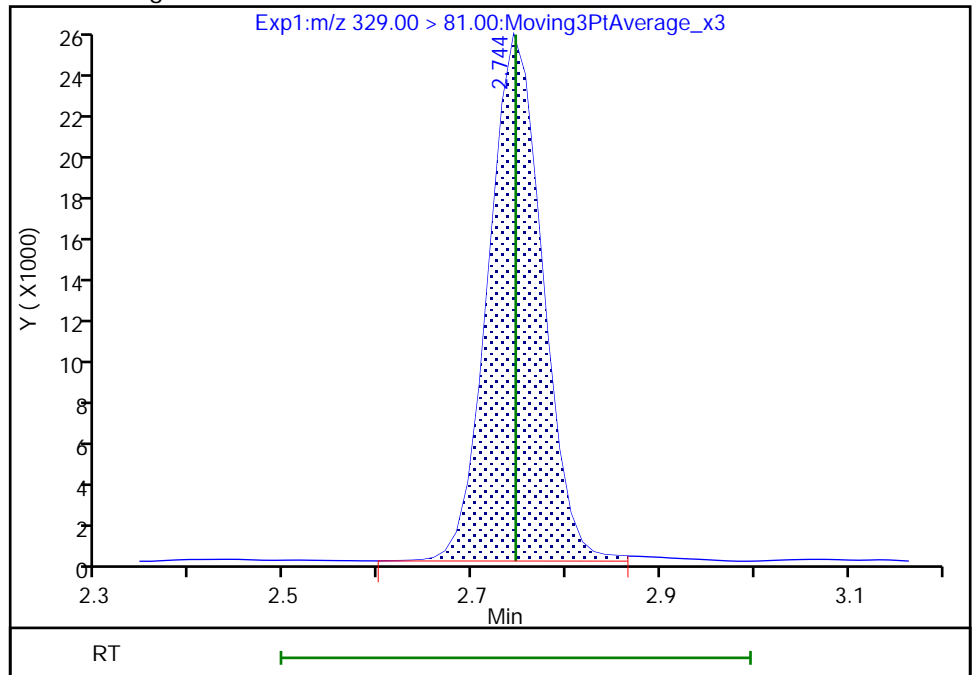
RT: 2.74
Area: 102511
Amount: 1.206473
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 102895
Amount: 1.219675
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:20:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

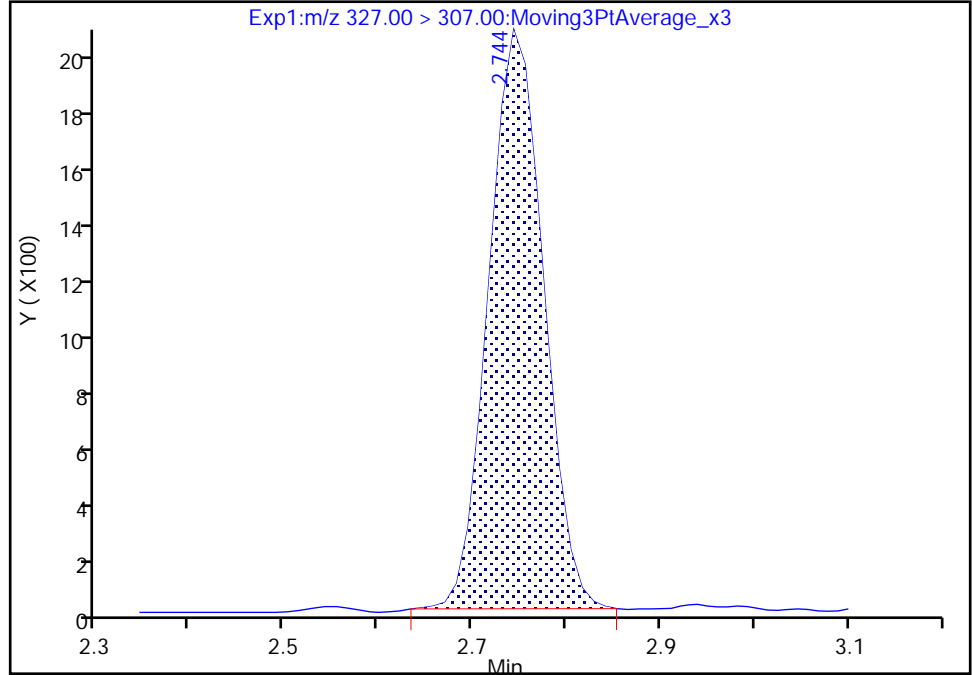
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

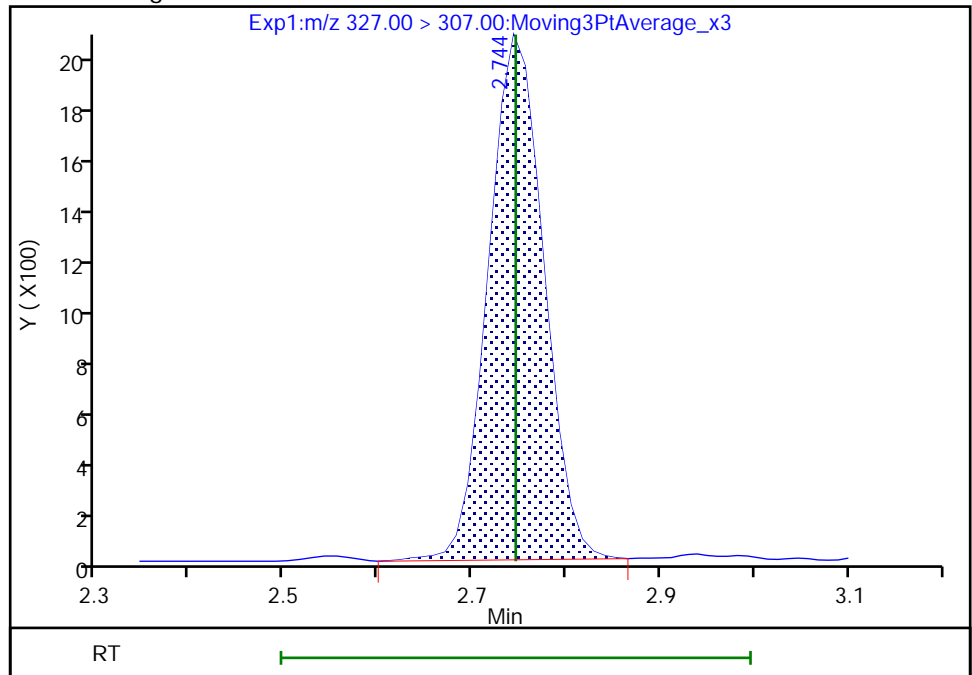
RT: 2.74
Area: 8147
Amount: 0.053035
Amount Units: ng/ml

Processing Integration Results



RT: 2.74
Area: 8249
Amount: 0.053699
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:21:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

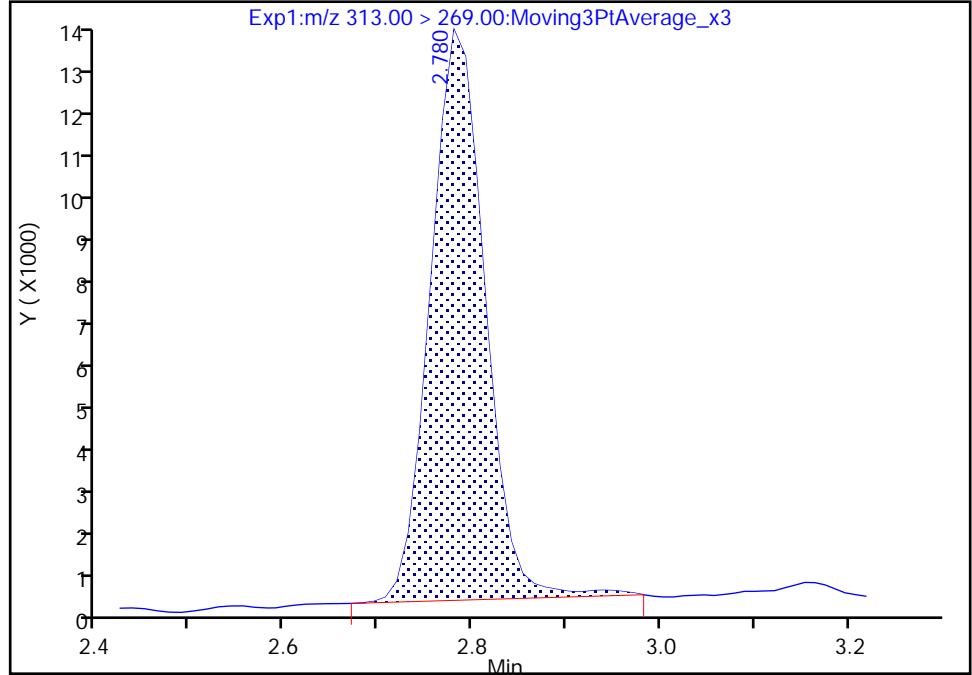
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

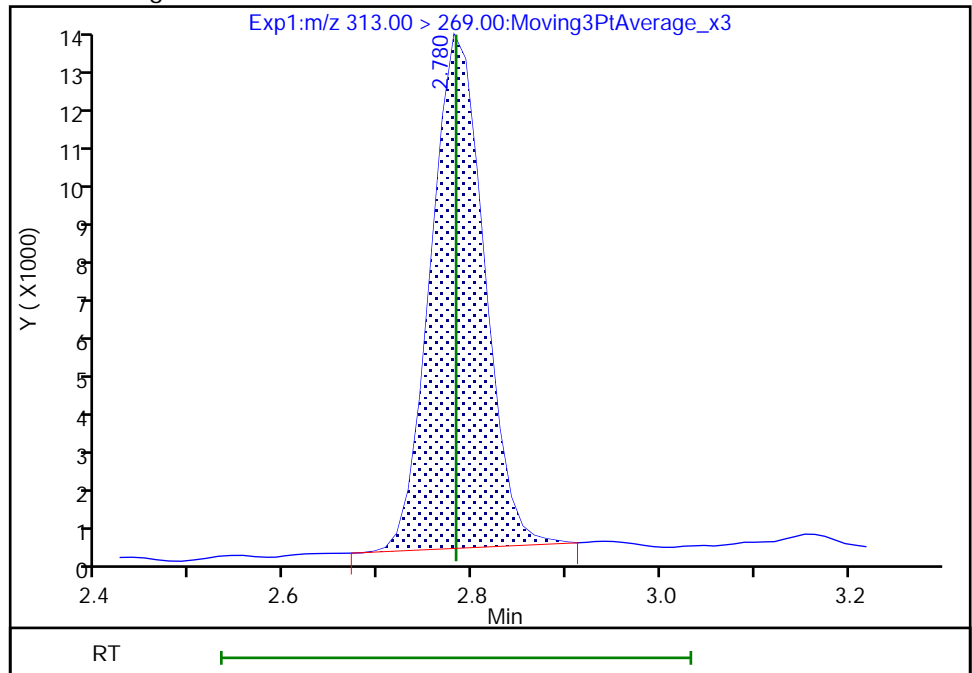
RT: 2.78
Area: 52763
Amount: 0.052018
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 51572
Amount: 0.050844
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:21:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

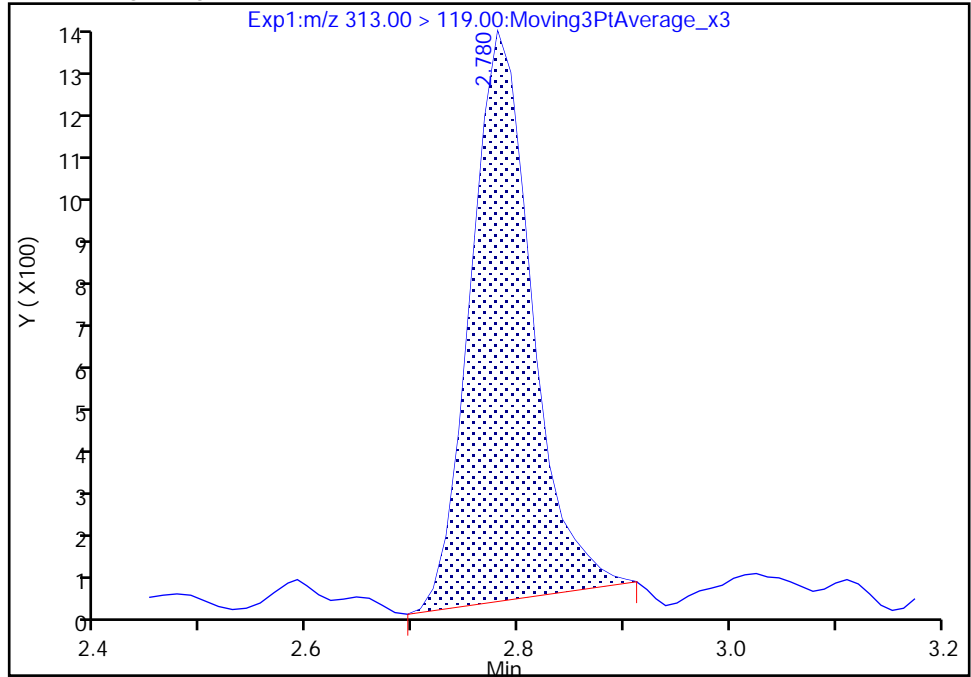
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

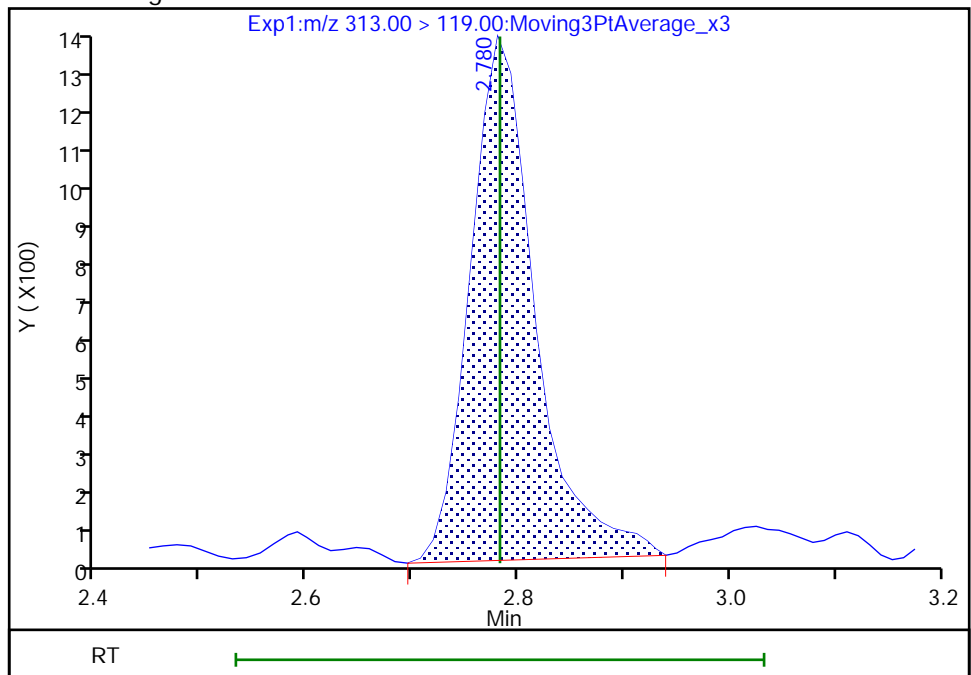
RT: 2.78
Area: 5289
Amount: 0.052018
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 5708
Amount: 0.050844
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:21:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

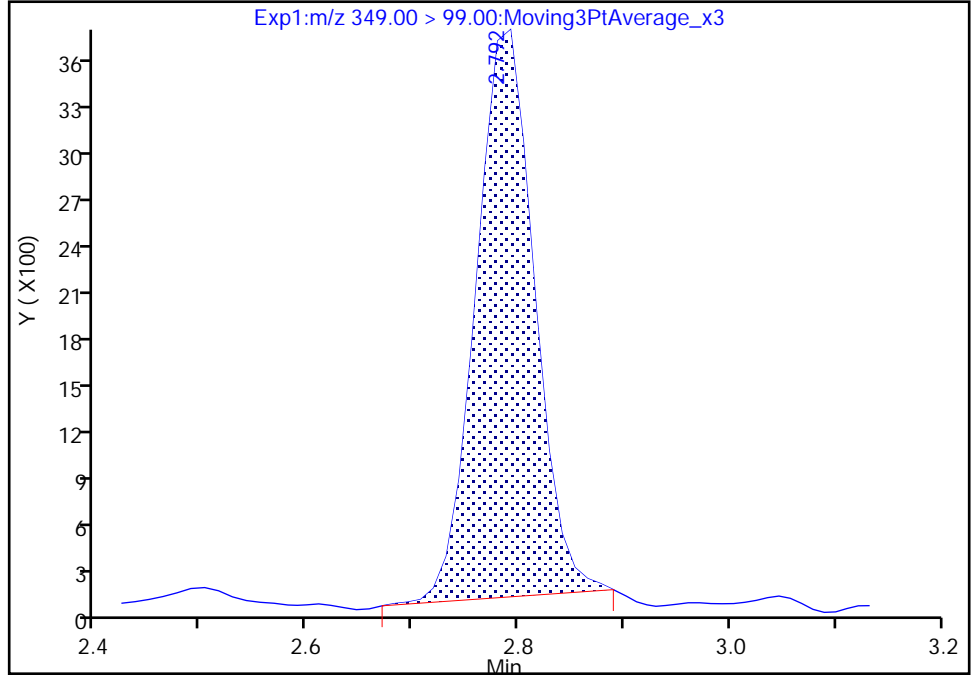
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

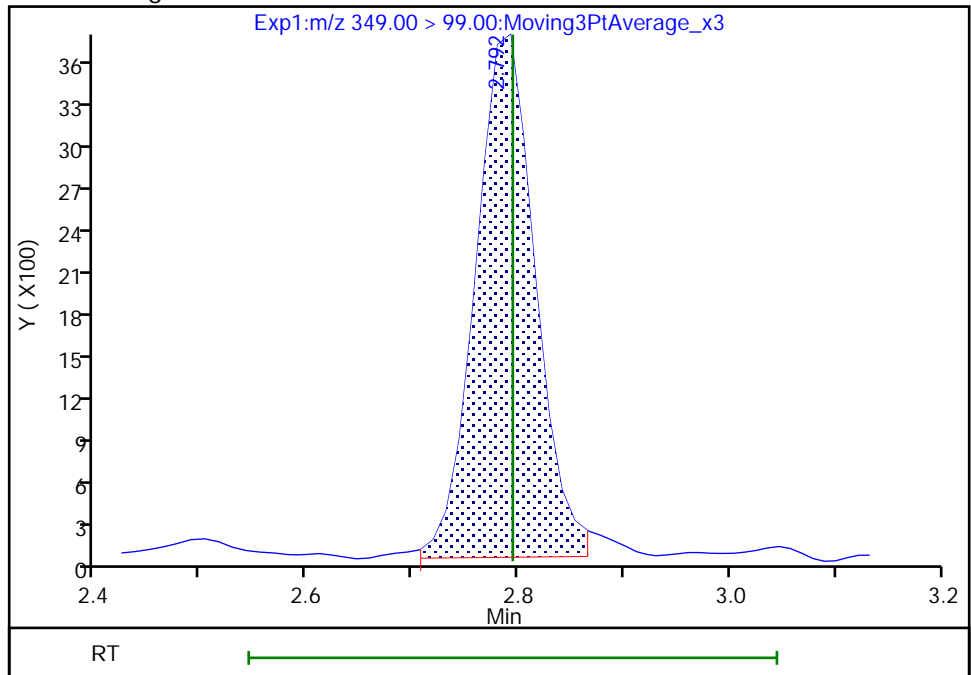
RT: 2.79
Area: 13624
Amount: 0.051862
Amount Units: ng/ml

Processing Integration Results



RT: 2.79
Area: 14178
Amount: 0.051862
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:21:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

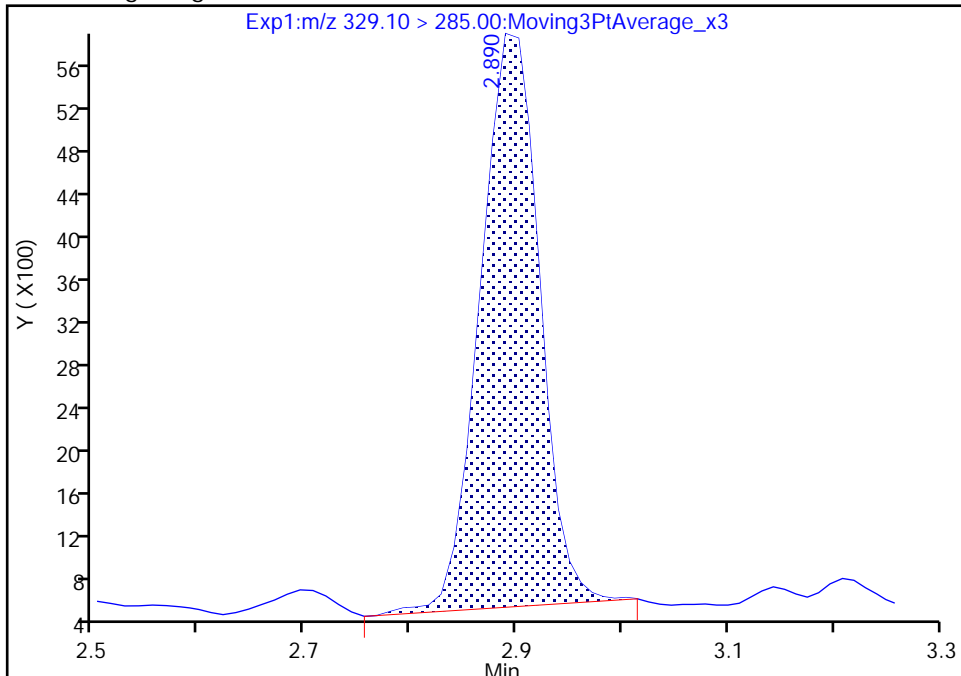
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

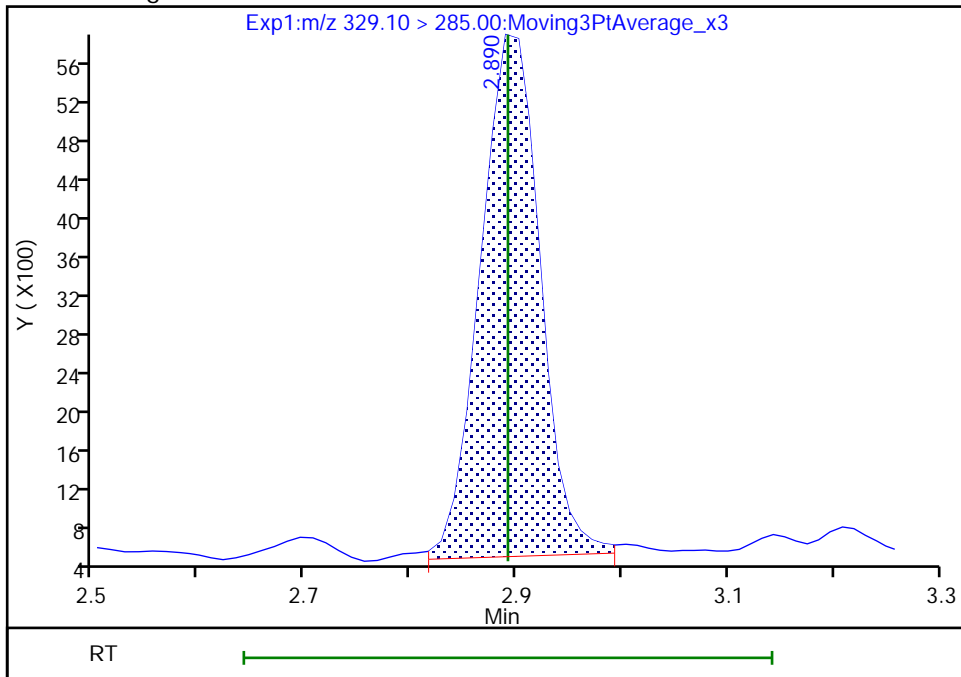
RT: 2.89
Area: 20554
Amount: 0.106831
Amount Units: ng/ml

Processing Integration Results



RT: 2.89
Area: 20858
Amount: 0.108411
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:22:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

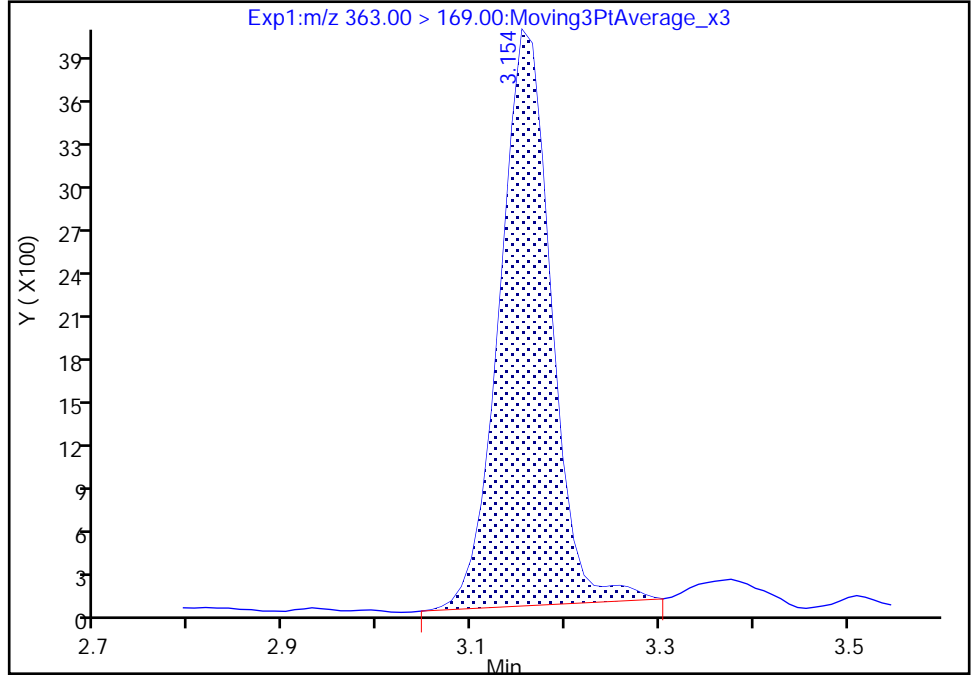
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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

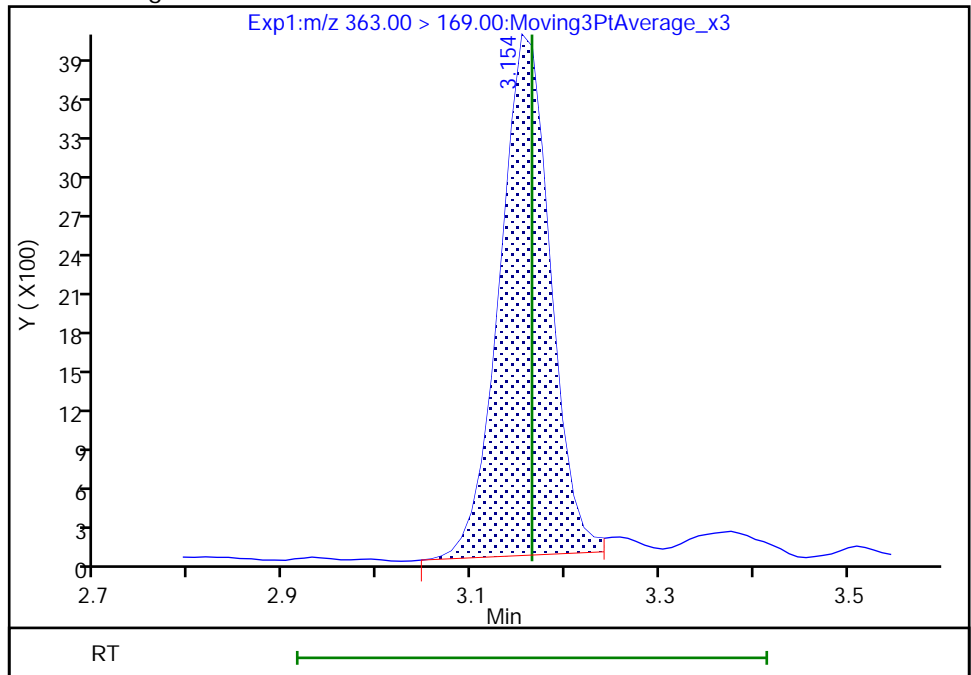
RT: 3.15
Area: 15293
Amount: 0.057440
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 15041
Amount: 0.057440
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:22:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

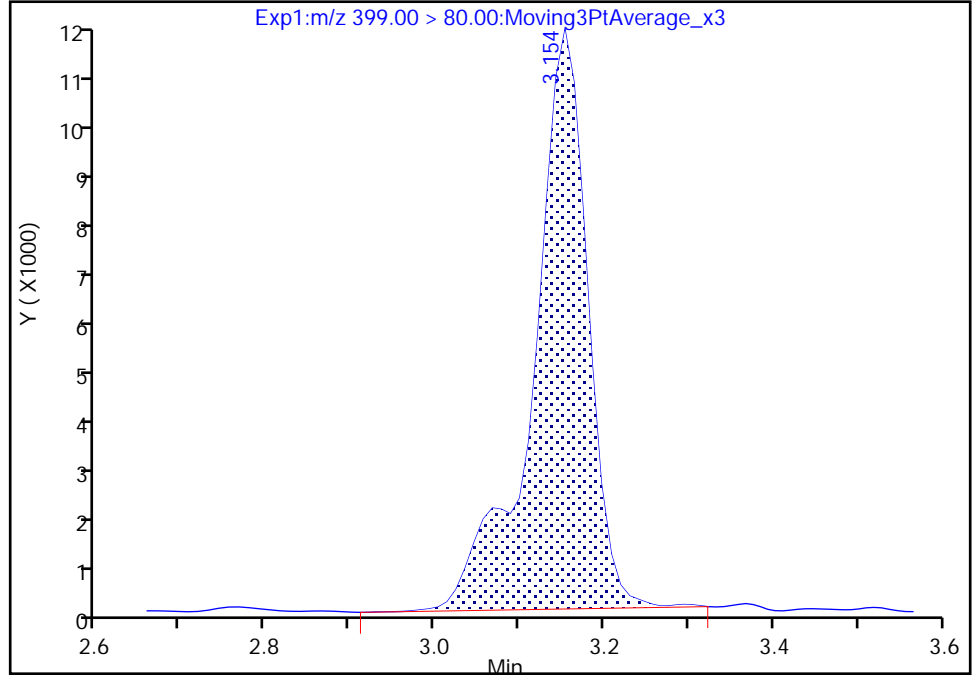
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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

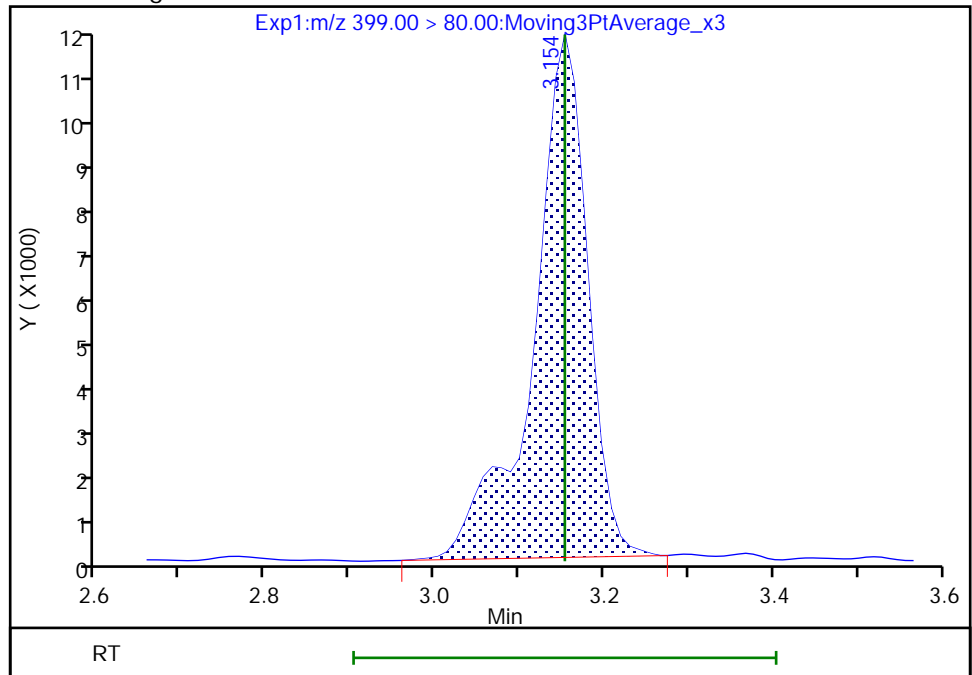
RT: 3.15
Area: 49700
Amount: 0.054541
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 49341
Amount: 0.054147
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:22:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

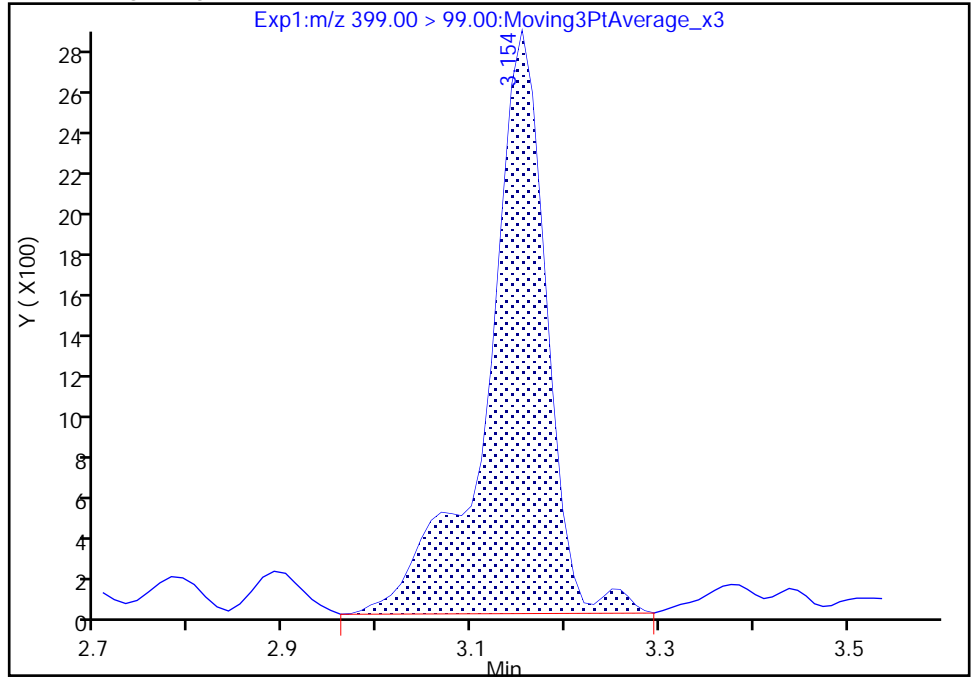
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

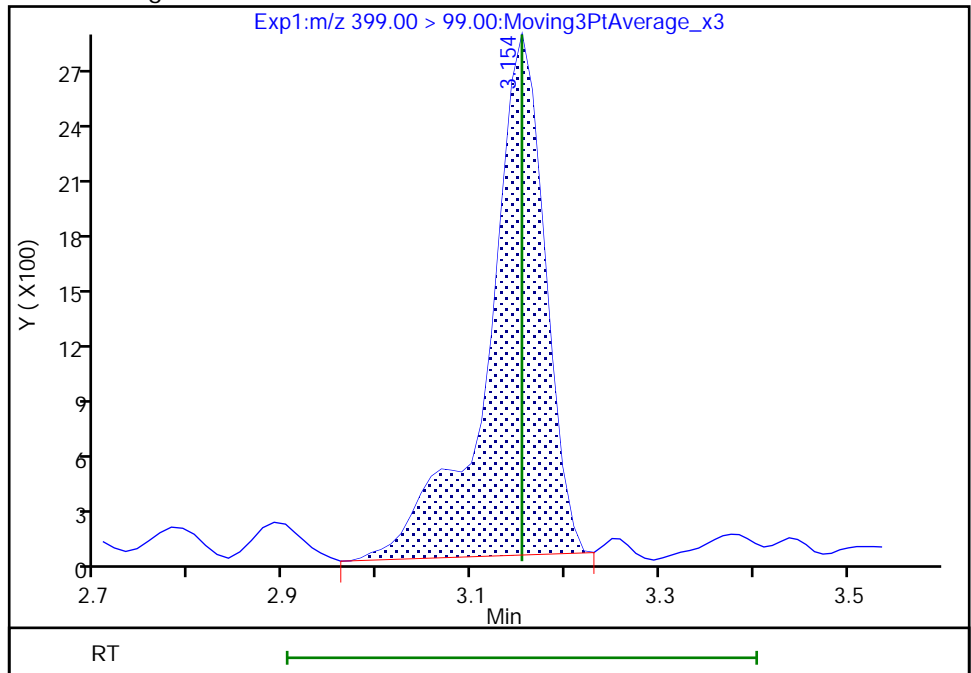
RT: 3.15
Area: 12366
Amount: 0.054541
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 11791
Amount: 0.054147
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:22:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

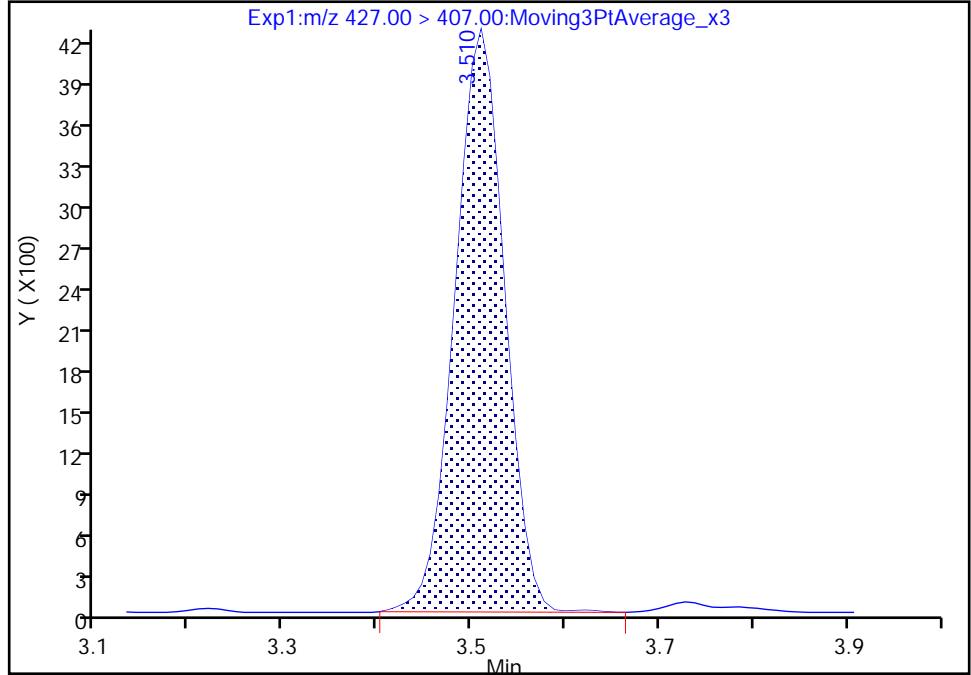
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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

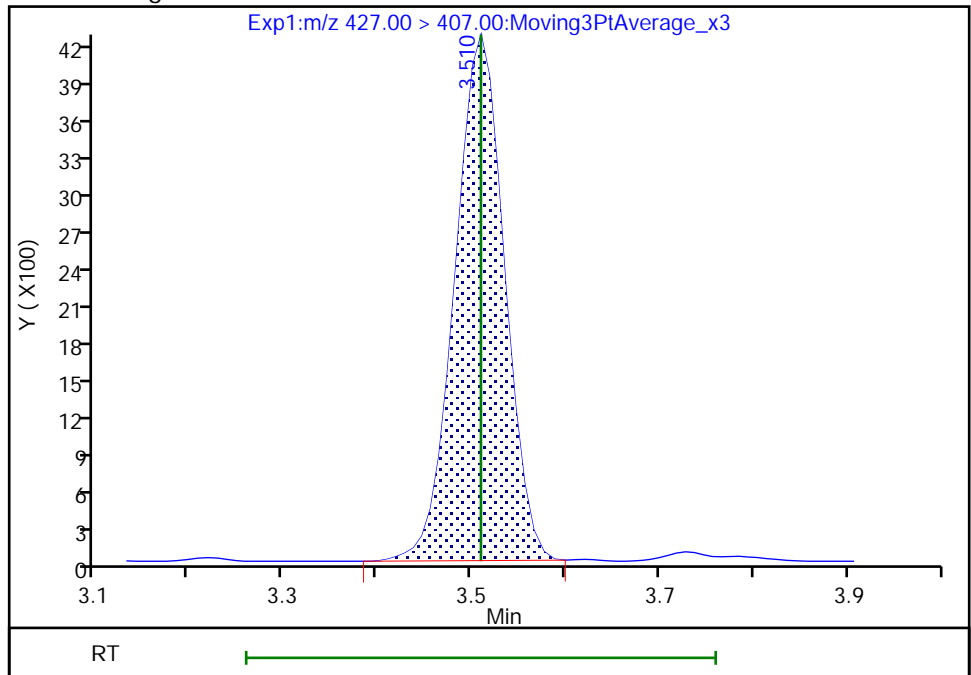
RT: 3.51
Area: 15524
Amount: 0.151252
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 15475
Amount: 0.150774
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 21-May-2021 16:27:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

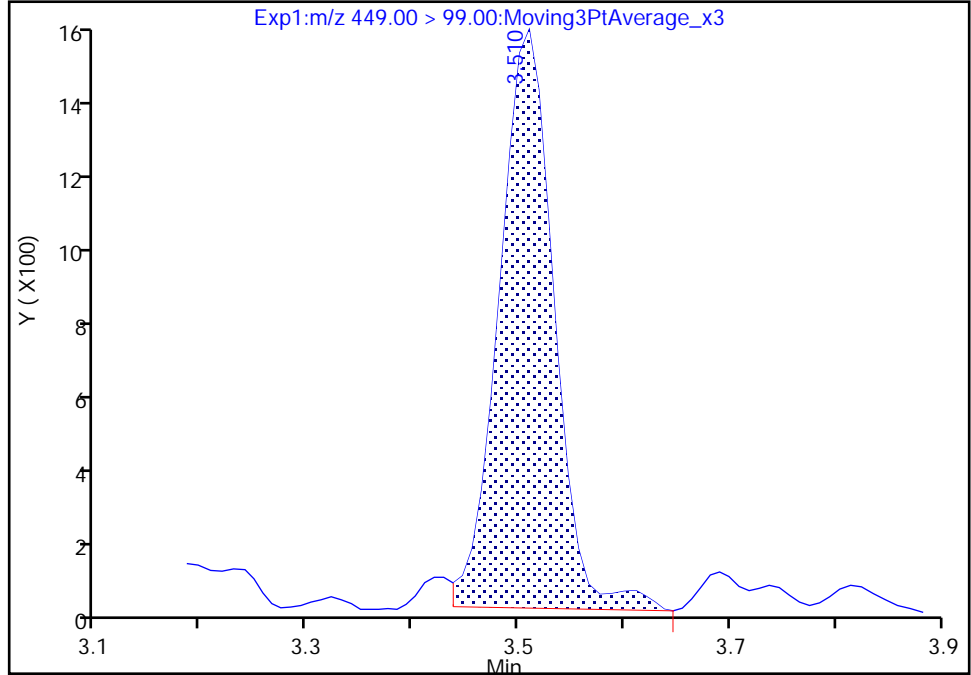
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

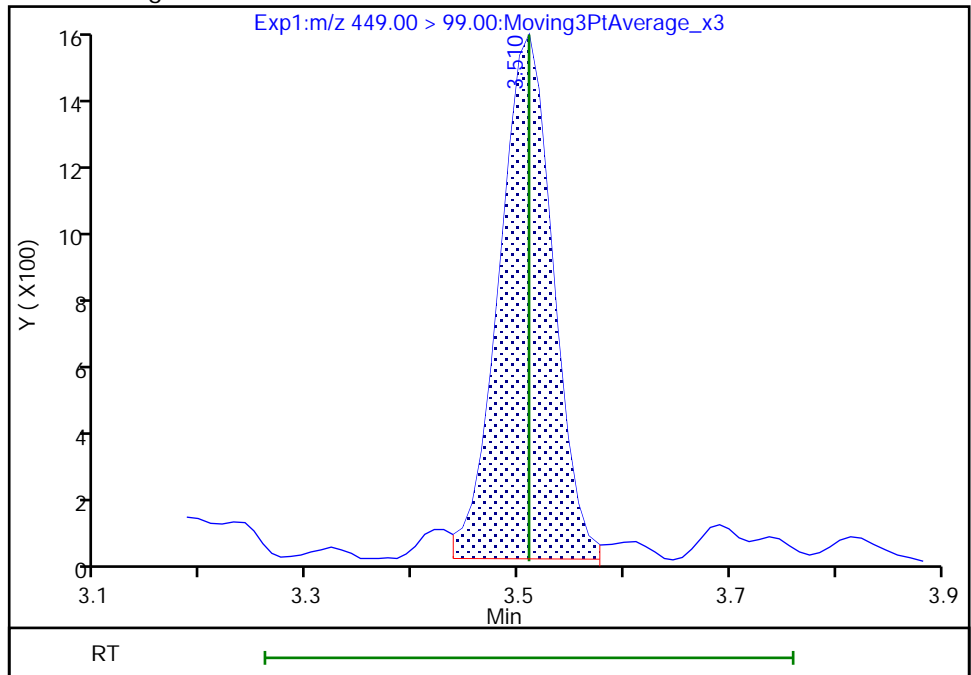
RT: 3.51
Area: 5482
Amount: 0.051359
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 5378
Amount: 0.051359
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:23:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

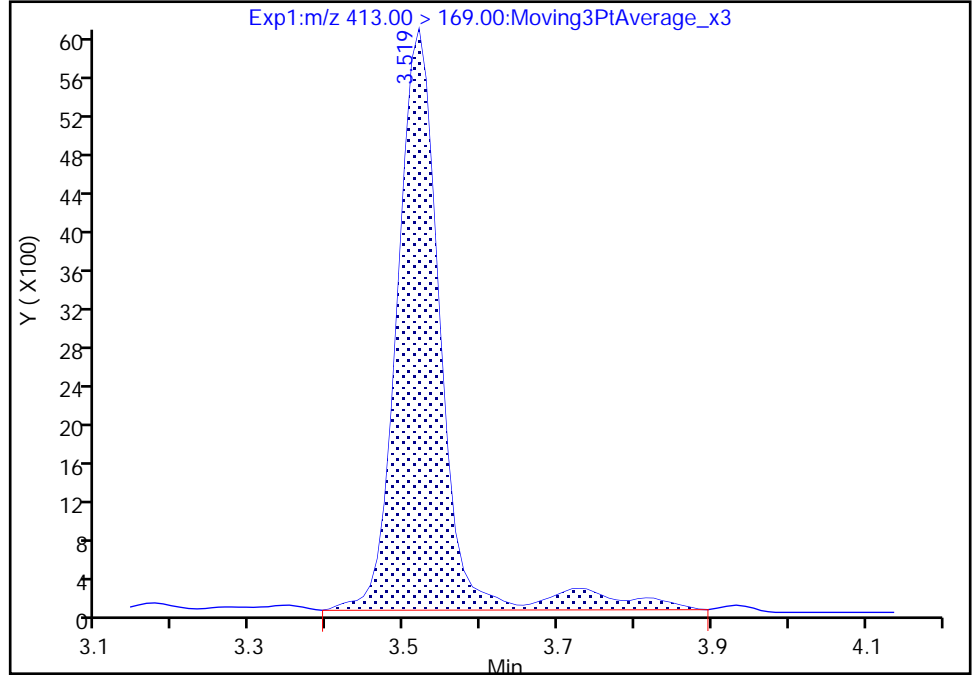
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

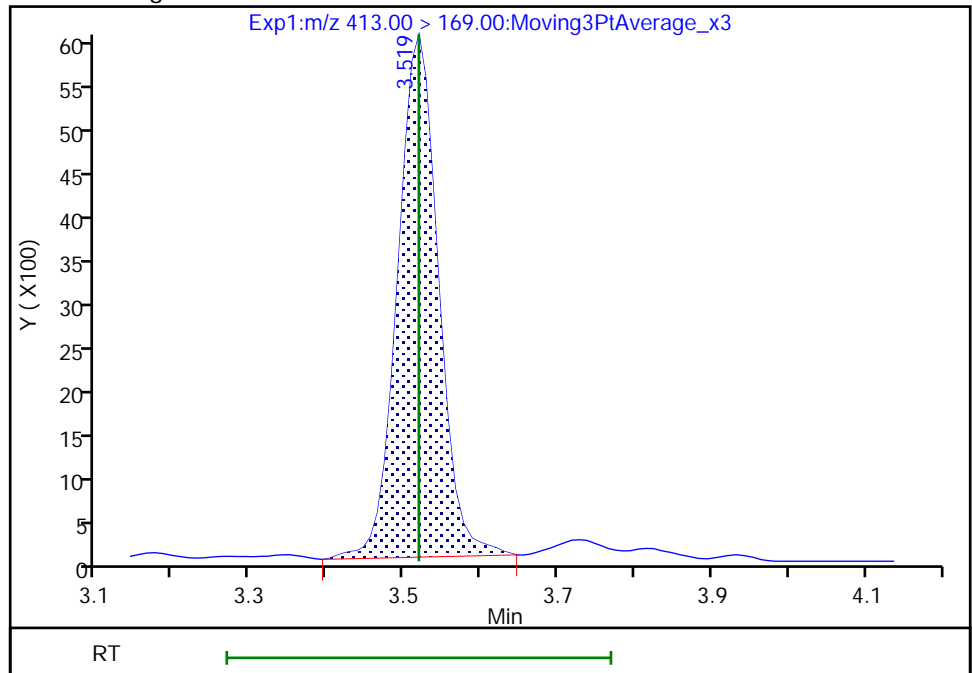
RT: 3.52
Area: 24023
Amount: 0.053167
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 22049
Amount: 0.053167
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:23:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

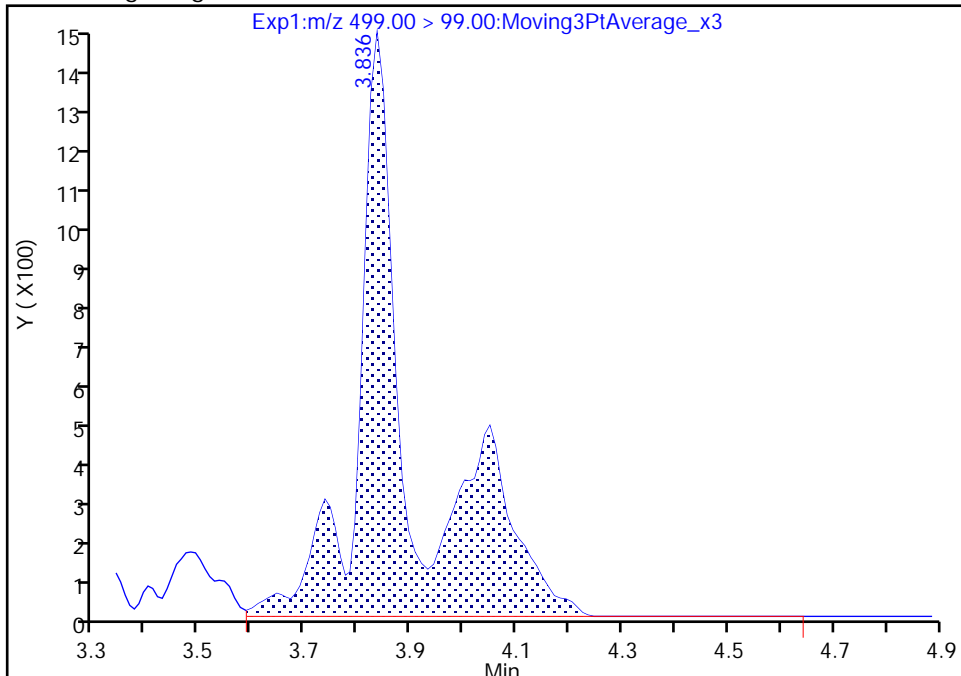
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

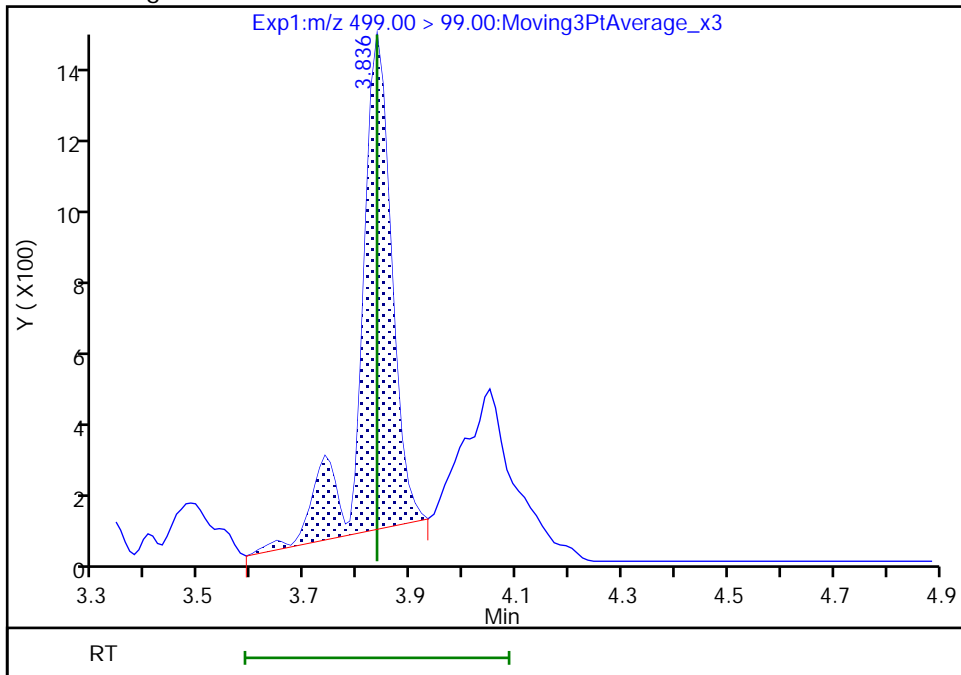
RT: 3.84
Area: 10321
Amount: 0.082463
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 5430
Amount: 0.048611
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 21-May-2021 16:27:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

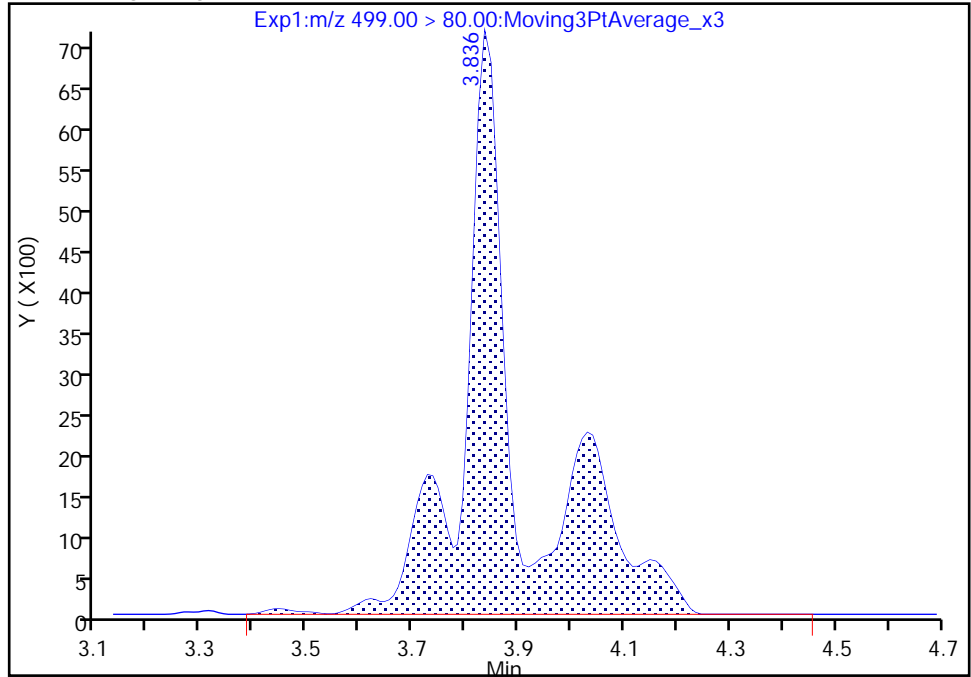
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

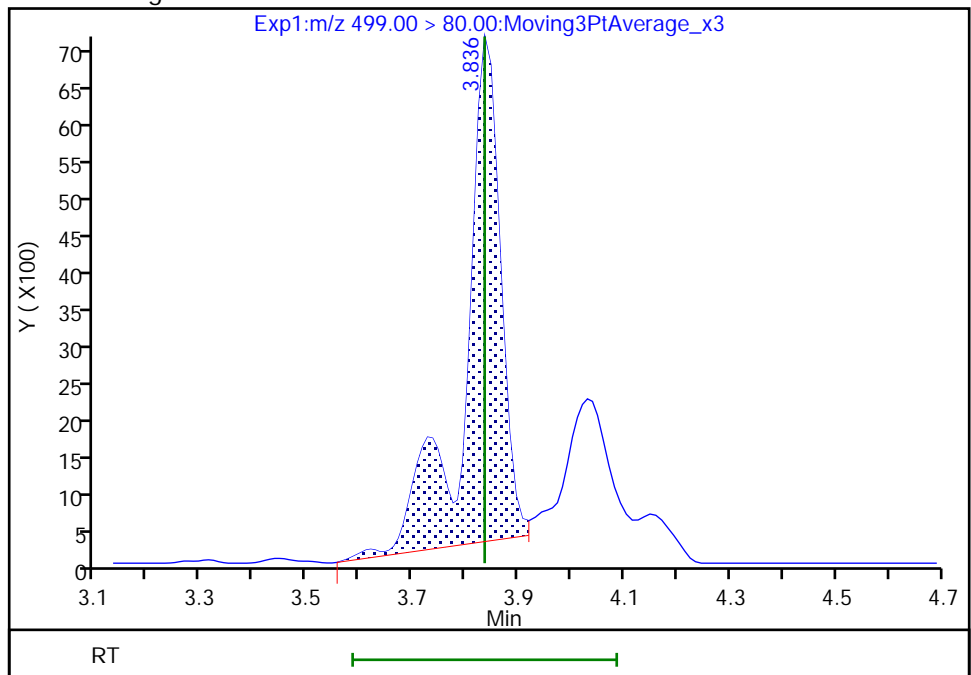
RT: 3.84
Area: 54775
Amount: 0.082463
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 32289
Amount: 0.048611
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

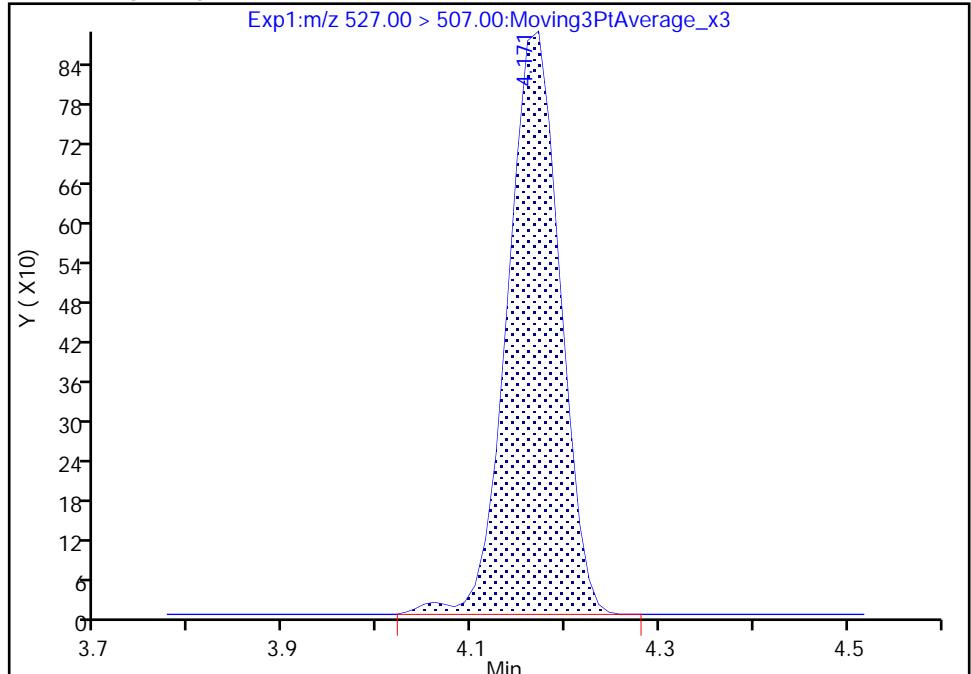
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

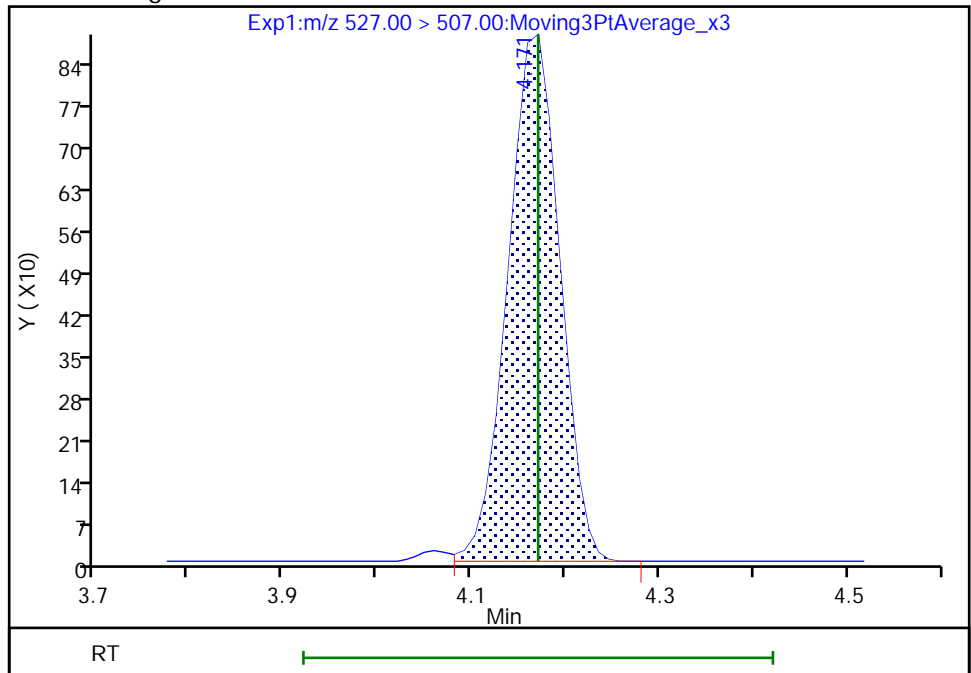
RT: 4.17
Area: 3444
Amount: 0.056223
Amount Units: ng/ml

Processing Integration Results



RT: 4.17
Area: 3404
Amount: 0.055570
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:25:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

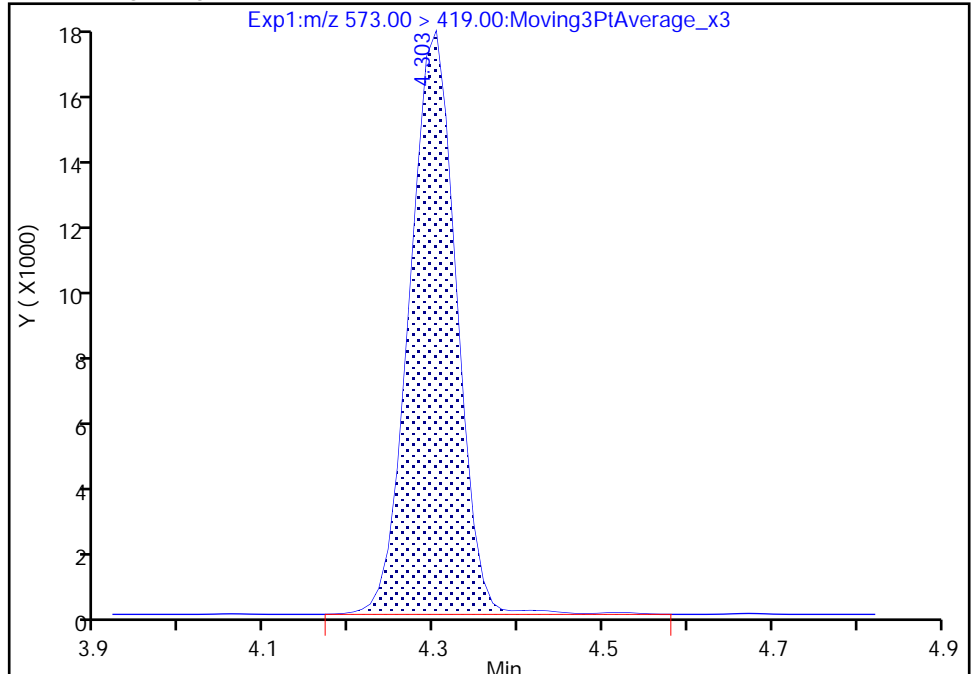
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

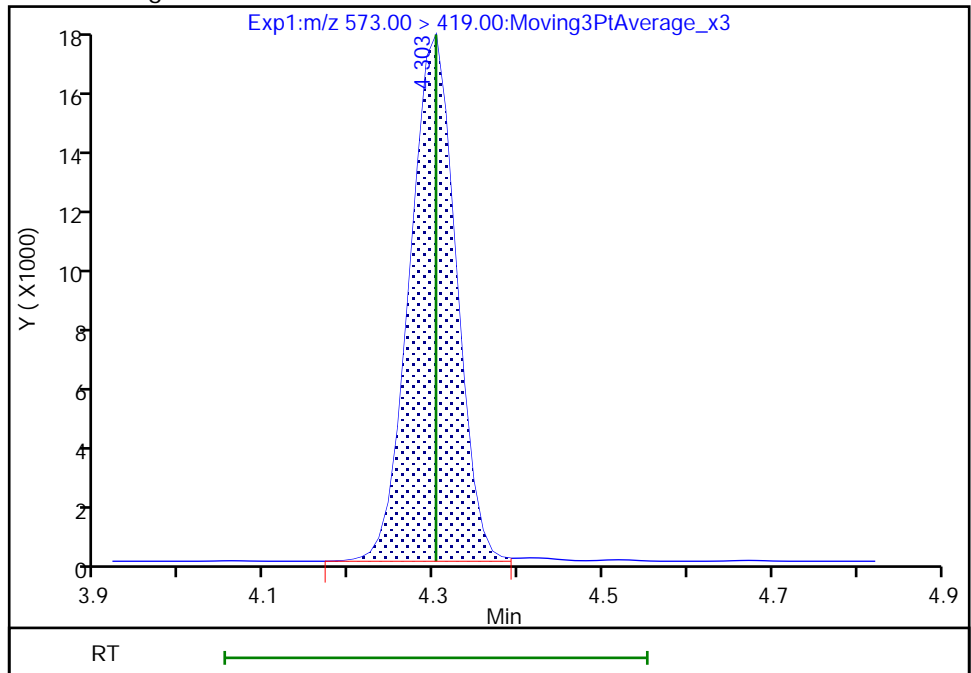
RT: 4.30
Area: 66530
Amount: 1.264657
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 65986
Amount: 1.263310
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:20:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

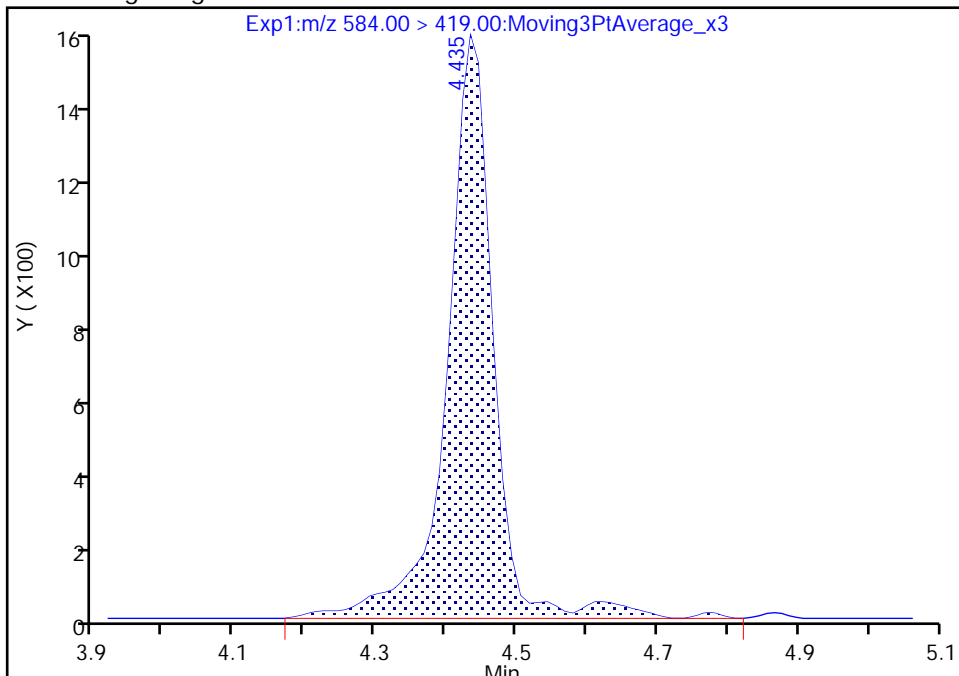
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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

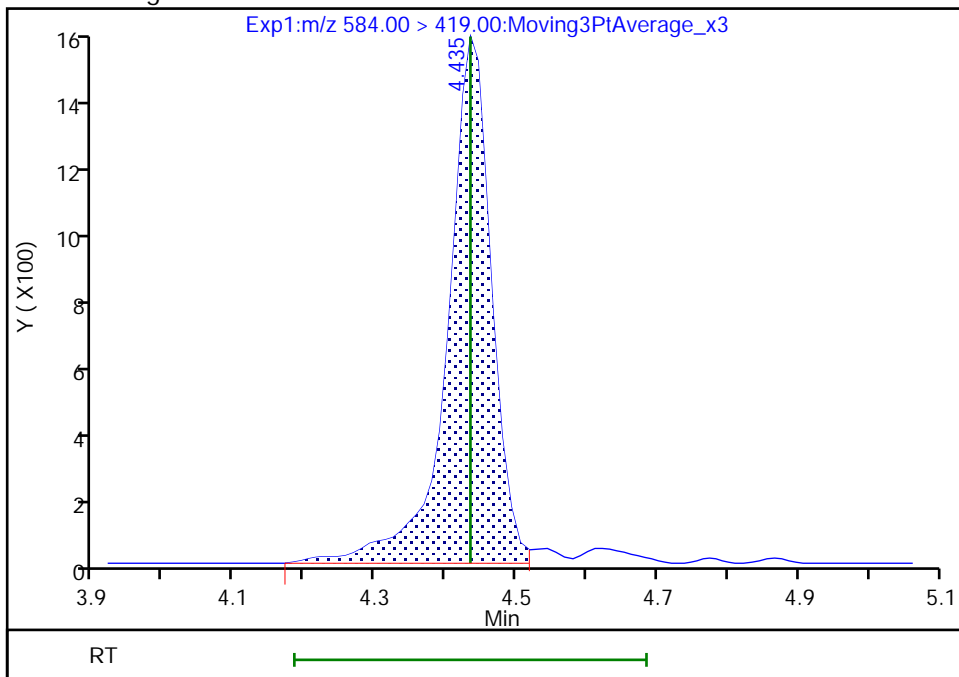
RT: 4.43
Area: 7019
Amount: 0.139374
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 6655
Amount: 0.131576
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:25:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

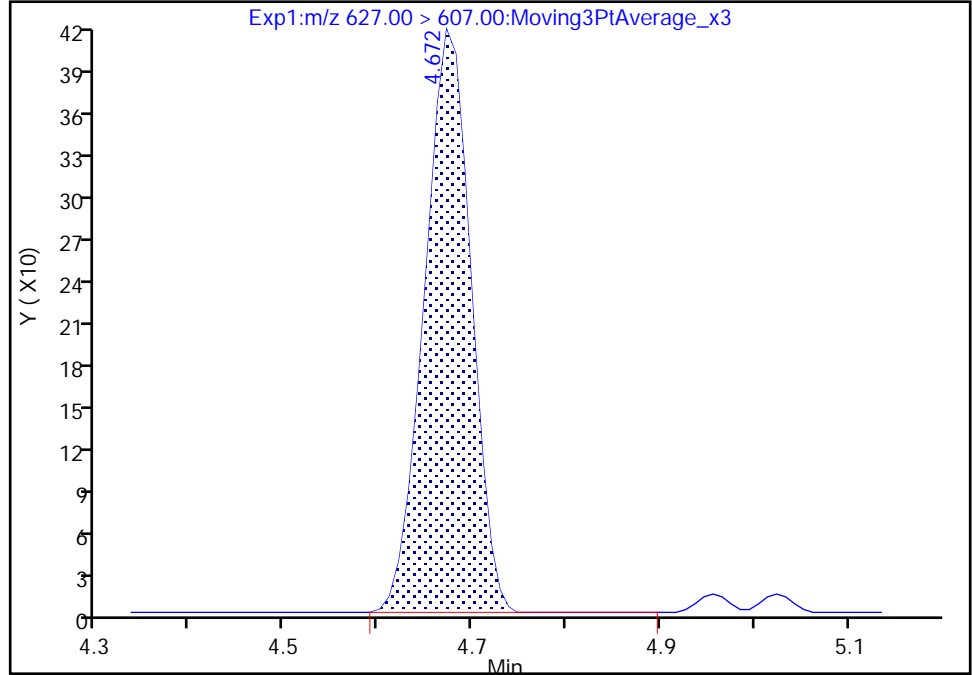
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Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

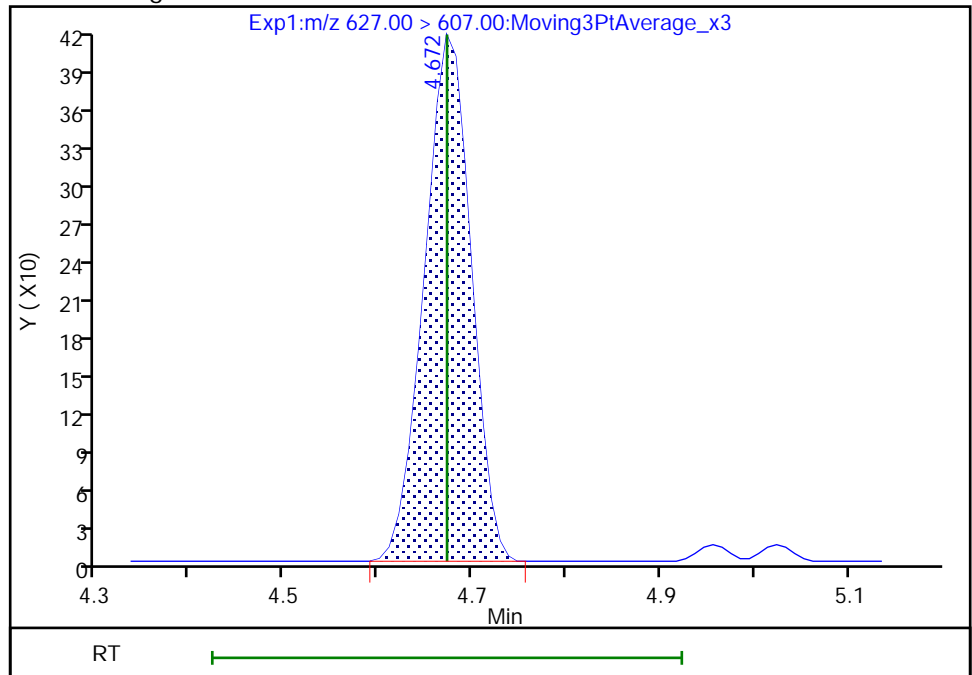
RT: 4.67
Area: 1423
Amount: 0.045281
Amount Units: ng/ml

Processing Integration Results



RT: 4.67
Area: 1423
Amount: 0.045281
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

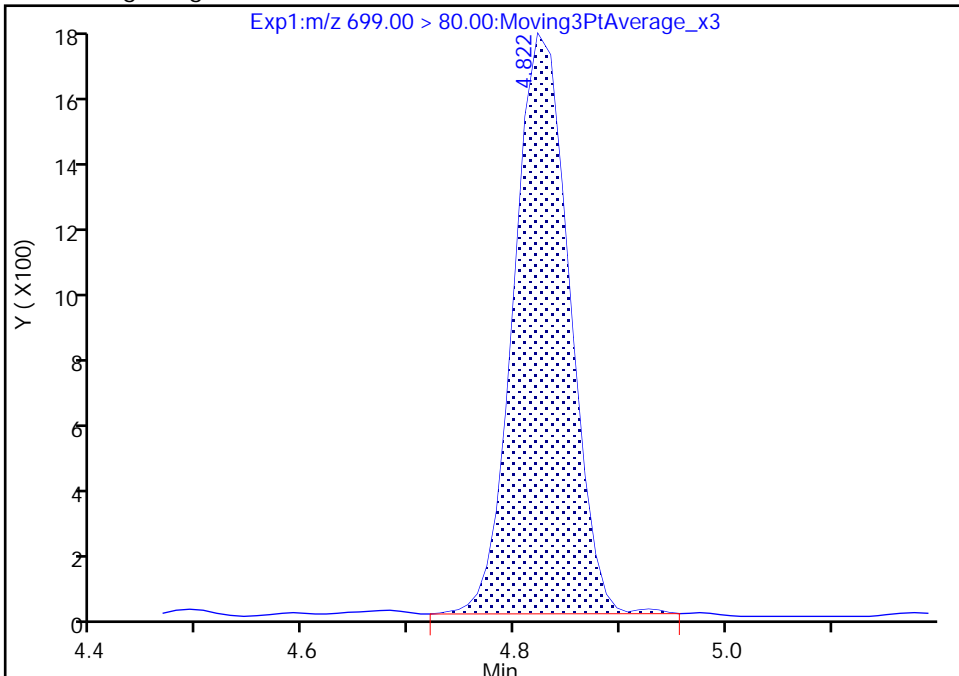
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

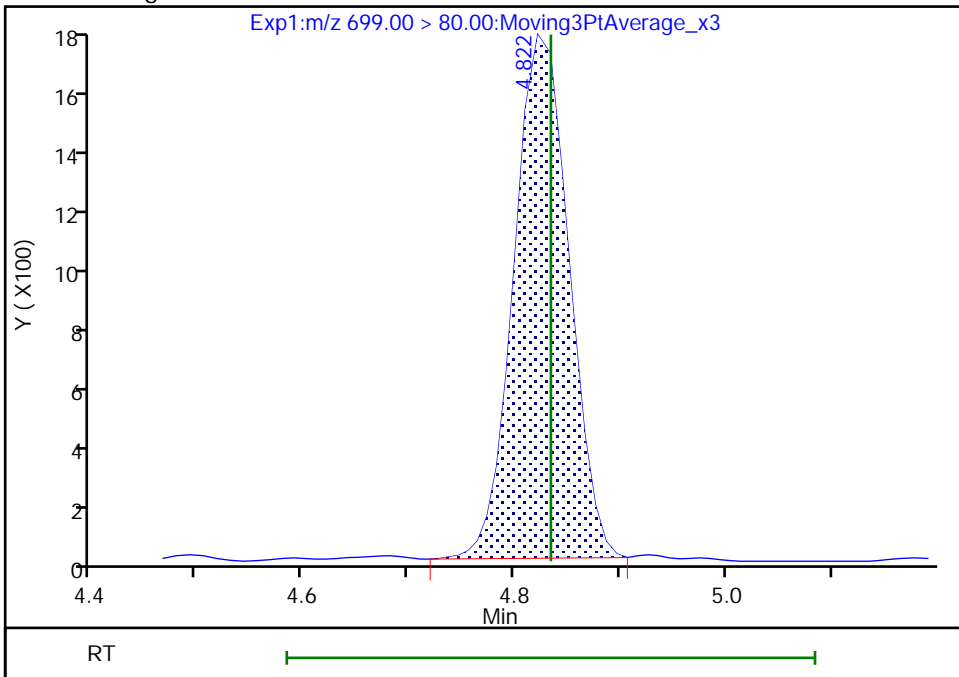
RT: 4.82
Area: 6200
Amount: 0.046674
Amount Units: ng/ml

Processing Integration Results



RT: 4.82
Area: 6154
Amount: 0.046328
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:25:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

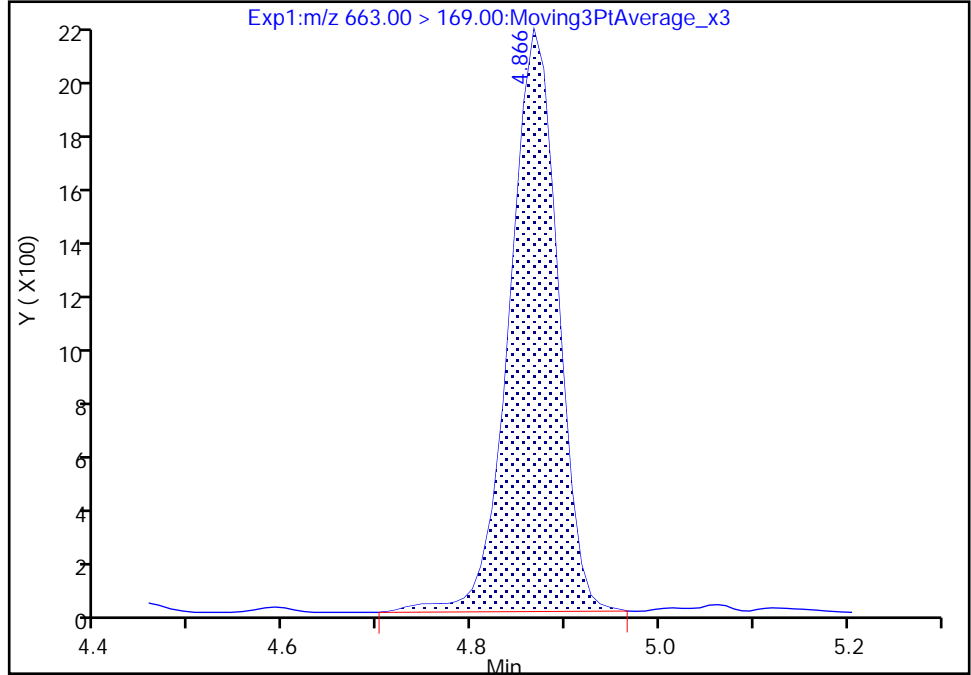
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

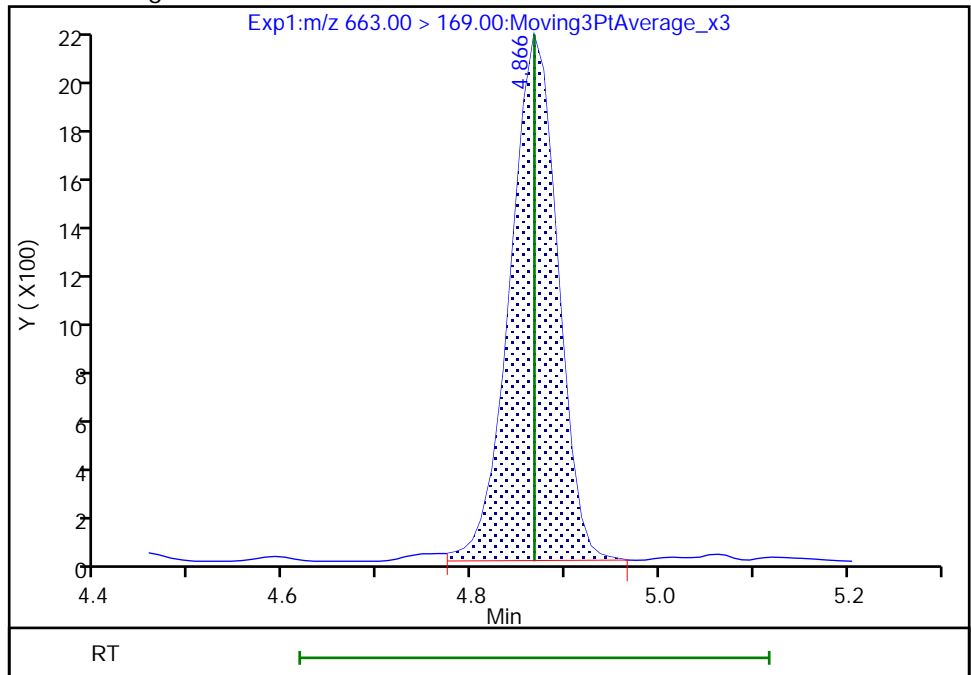
RT: 4.87
Area: 7800
Amount: 0.051917
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 7716
Amount: 0.051917
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:25:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

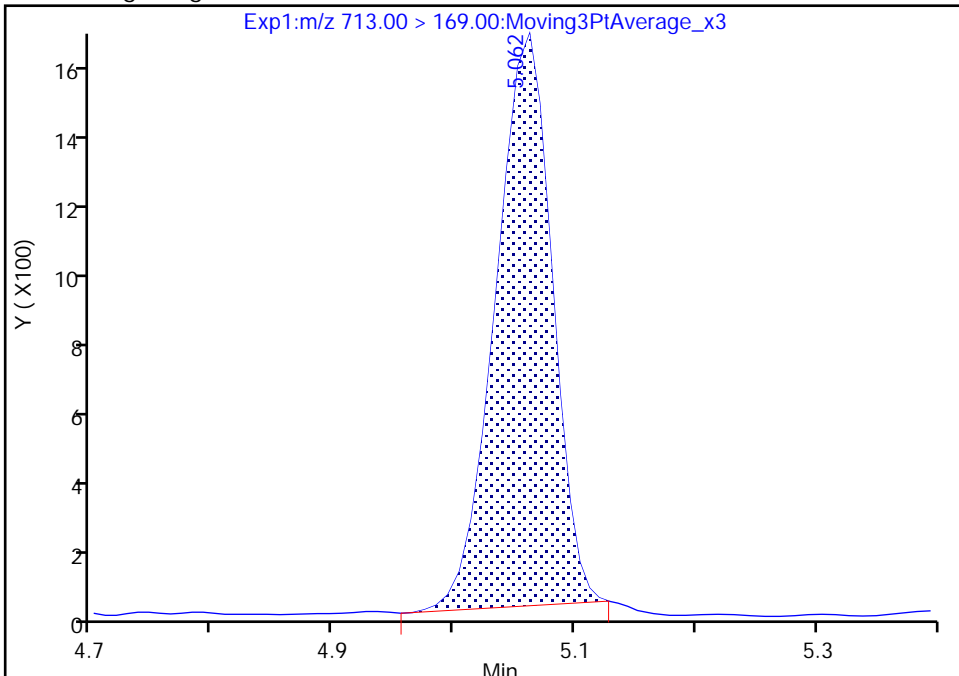
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA02.d
Injection Date: 21-May-2021 16:15:50 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

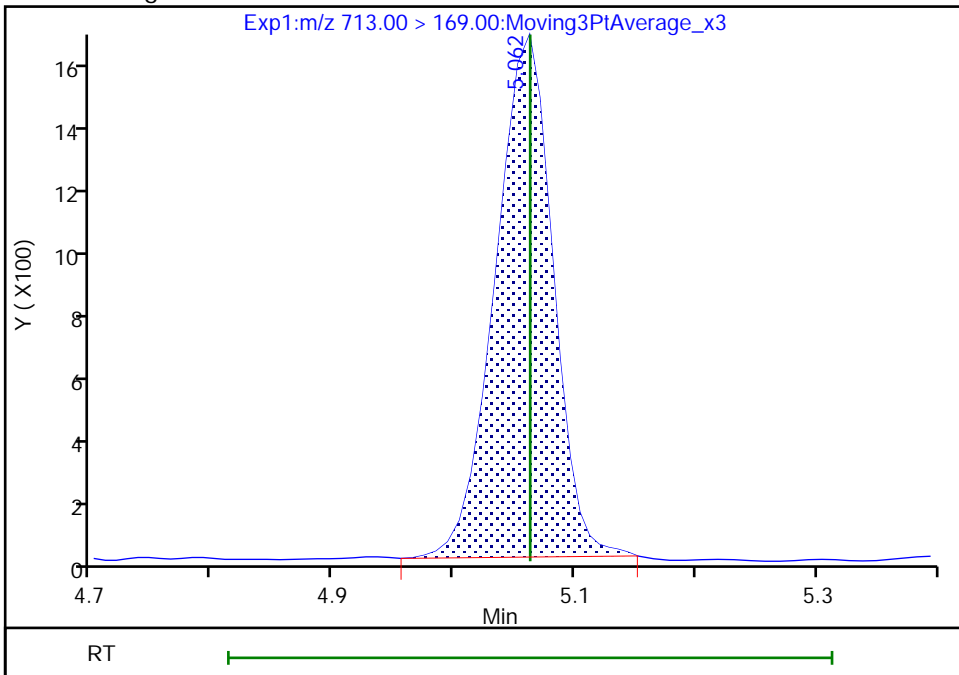
RT: 5.06
Area: 5364
Amount: 0.053958
Amount Units: ng/ml

Processing Integration Results



RT: 5.06
Area: 5532
Amount: 0.055648
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:25:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 477 of 761

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-167169/3 Calibration Date: 05/21/2021 16:24
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210521AAA03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9349	0.9219		0.986	1.00	-1.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.011	1.033		1.02	1.00	2.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.030	1.061		0.910	0.884	3.0	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.743	1.837		0.985	0.934	5.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.012	0.9402		0.929	1.00	-7.1	40.0
Perfluoropentanesulfonic acid (PFPA)	AveID	1.218	1.178		0.907	0.938	-3.3	50.0
HFPO-DA	AveID	1.655	1.507		0.911	1.00	-8.9	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.109	1.093		0.897	0.910	-1.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.009	1.017		1.01	1.00	0.8	40.0
DONA	AveID	3.141	3.273		0.982	0.942	4.2	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.8971	0.8751		0.925	0.948	-2.5	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.242	1.199		0.919	0.952	-3.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.027	1.006		0.979	1.00	-2.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.077	1.051		0.906	0.928	-2.4	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9633	0.9635		1.00	1.00	0.0	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.036	0.995		0.896	0.932	-3.9	50.0
Perfluorononanesulfonic acid	AveID	0.8018	0.7409		0.887	0.960	-7.6	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.046	1.005		0.960	1.00	-4.0	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.5017	0.4819		0.920	0.958	-3.9	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9783	0.9464		0.967	1.00	-3.3	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8791	0.8696		0.989	1.00	-1.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6311	0.6094		0.931	0.964	-3.4	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9891	0.9882		0.999	1.00	-0.0	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	L1ID		0.8501		0.967	1.00	-3.3	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.9218	0.9039		0.924	0.942	-1.9	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.003	0.9876		0.985	1.00	-1.5	40.0
10:2 FTS	AveID	0.2574	0.2422		0.907	0.964	-5.9	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2153	0.2050		0.922	0.968	-4.8	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8085	0.8220		1.02	1.00	1.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2045	0.1977		0.967	1.00	-3.3	40.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-167169/3 Calibration Date: 05/21/2021 16:24
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210521AAA03.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9405		0.974	1.00	-2.6	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8543	0.8069		0.945	1.00	-5.5	50.0
13C4 PFBA	Ave	1.253	1.185		1.18	1.25	-5.4	50.0
13C5 PFPeA	Ave	0.9108	0.8263		1.13	1.25	-9.3	50.0
13C3 PFBS	Ave	1.138	1.024		1.05	1.16	-10.1	50.0
M2-4:2 FTS	Ave	0.0884	0.0783		1.03	1.17	-11.4	50.0
13C2 PFHxA	Ave	0.9887	0.9565		1.21	1.25	-3.3	50.0
13C3 HFPO-DA	Ave	0.1094	0.1037		1.18	1.25	-5.3	50.0
13C4 PFHpA	Ave	0.9882	0.9462		1.20	1.25	-4.3	50.0
18O2 PFHxS	Ave	0.8838	0.8101		1.08	1.18	-8.3	50.0
M2-6:2 FTS	Ave	0.1171	0.1165		1.18	1.19	-0.5	50.0
13C4 PFOA	Ave	1.001	0.9732		1.22	1.25	-2.8	50.0
13C4 PFOS	Ave	0.6377	0.6091		1.14	1.20	-4.5	50.0
13C5 PFNA	Ave	0.9222	0.8867		1.20	1.25	-3.9	50.0
13C2 PFDA	Ave	0.8087	0.8220		1.27	1.25	1.6	50.0
M2-8:2 FTS	Ave	0.1200	0.1209		1.21	1.20	0.8	50.0
13C8 FOSA	Ave	1.141	1.060		1.16	1.25	-7.1	50.0
d3-NMeFOSAA	Ave	0.0547	0.0534		1.22	1.25	-2.5	50.0
13C2 PFUnA	Ave	0.6487	0.6422		1.24	1.25	-1.0	50.0
d5-NEtFOSAA	Ave	0.0549	0.0536		1.22	1.25	-2.4	50.0
13C2 PFDoA	Ave	0.6788	0.6435		1.19	1.25	-5.2	50.0
13C2 PFTeDA	Ave	0.4966	0.4553		1.15	1.25	-8.3	50.0
13C2 PFHxDA	Ave	0.4862	0.4534		1.17	1.25	-6.8	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-May-2021 16:24:07 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 200-0046088-003 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 24-May-2021 13:30:54 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1616

First Level Reviewer: khanphomeea Date: 24-May-2021 09:30:32

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	2.091	2.091	0.0	0.594	1466527	1.18	94.6	9760	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.100	2.100	0.0	1.004	1081580	0.9861		98.6	218	M
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1022164	1.13	90.7	2887	
4 Perfluoropentanoic acid	262.90 > 219.00	2.426	2.426	0.0	1.000	844598	1.02	102	123	
D 47 13C3 PFBS	301.90 > 80.00	2.439	2.439	0.0	0.693	1177799	1.05	89.9	438968	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.439	2.439	0.0	1.000	950410	0.9105	Target=2.19	103	1489	M
298.90 > 99.00	2.439	2.439	0.0	1.000	433429		2.19(1.09-3.28)		305	
D 60 M2-4:2 FTS	329.00 > 81.00	2.746	2.746	0.0	0.780	90462	1.03	88.6	124	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.746	2.746	0.0	1.000	132976	0.9846		105	1451	M
D 7 13C2 PFHxA	315.00 > 270.00	2.782	2.782	0.0	0.791	1183259	1.21	96.7	3348	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.782	2.782	0.0	1.000	889956	0.9289	Target=12.12	92.9	262	M
313.00 > 119.00	2.782	2.782	0.0	1.000	74689		11.92(6.06-18.18)		156	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.795	2.795	0.0	0.886	885556	0.9072	Target=3.58	96.7	1796
349.00 > 99.00	2.795	2.795	0.0	0.886	257969		3.43(1.79-5.37)		515	
67 Perfluoro(2-propoxypropanoic) ac	329.10 > 285.00	2.892	2.892	0.0	0.997	154608	0.9108		91.1	75.1

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	0.825	128233	1.18		94.7	1223	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.154	0.0	0.896	948049	1.08		91.7	1858	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.154	0.0	1.000	797573	0.8974	Target=4.23	98.6	1176	M
399.00 > 99.00	3.154	3.154	0.0	1.000	187220		4.26(2.12-6.35)		262	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.154	0.0	0.896	1170525	1.20		95.7	2188	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.164	3.164	0.0	1.003	952247	1.01	Target=3.49	101	543	
363.00 > 169.00	3.164	3.164	0.0	1.003	266831		3.57(1.75-5.24)		659	
77 DONA										
377.00 > 251.00	3.196	3.196	0.0	0.833	1858640	0.9817	Target=2.43	104	2490	M
377.00 > 85.00	3.196	3.196	0.0	0.833	707574		2.63(1.21-3.64)		1325	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.510	3.510	0.0	0.915	687927	0.9187	Target=6.21	96.5	2123	
449.00 > 99.00	3.510	3.510	0.0	0.915	105439		6.52(3.10-9.31)		491	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	136939	1.18		99.5	558	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	95662	0.9247		97.5	667	
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1203974	1.22		97.2	2355	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1237077	1.25			123	M
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	968591	0.9790	Target=2.53	97.9	391	M
413.00 > 169.00	3.519	3.519	0.0	1.000	393582		2.46(1.27-3.80)		824	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	720307	1.14		95.5	2641	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	587894	0.9059	Target=6.09	97.6	251	M
499.00 > 99.00	3.836	3.836	0.0	1.000	94043		6.25(3.04-9.13)		155	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.858	3.858	0.0	1.000	845454	1.00	Target=6.34	100	307	
463.00 > 169.00	3.858	3.858	0.0	1.000	135232		6.25(3.17-9.51)		1304	
D 19 13C5 PFNA										
468.00 > 423.00	3.858	3.858	0.0	1.097	1096865	1.20		96.1	3997	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	4.002	4.002	0.0	1.043	559141	0.8956		96.1	1273	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	428736	0.8871	Target=2.95	92.4	2092	
549.00 > 99.00	4.126	4.126	0.0	1.076	148858		2.88(1.47-4.42)		505	
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.160	0.0	1.182	1016924	1.27		102	2912	

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	4.160	0.0	1.000	817377	0.9601	Target=7.79	96.0	860	
513.00 > 169.00	4.160	4.160	0.0	1.000	102820		7.95(3.90-11.69)		817	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.171	4.171	0.0	1.185	143337	1.21		101	712	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.171	4.171	0.0	1.000	55265	0.9202		96.1	842	M
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.225	0.0	1.201	1311368	1.16		92.9	3735	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.225	0.0	1.000	992867	0.9674		96.7	1790	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.302	4.302	0.0	1.223	66006	1.22		97.5	202	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.000	45921	0.9892		98.9	209	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.391	0.0	1.145	354096	0.9309	Target=2.87	96.6	1416	
599.00 > 99.00	4.391	4.391	0.0	1.145	128717		2.75(1.44-4.31)		1029	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.424	0.0	1.000	628053	1.00	Target=7.94	99.9	948	
563.00 > 169.00	4.424	4.424	0.0	1.000	81978		7.66(3.97-11.91)		834	
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.424	0.0	1.257	794419	1.24		99.0	2291	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.434	4.434	0.0	1.260	66261	1.22		97.6	659	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.434	4.434	0.0	1.000	45062	0.9673		96.7	277	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.518	4.518	0.0	1.178	513259	0.9237		98.1	1220	
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.653	0.0	1.322	796102	1.19		94.8	2393	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.000	629000	0.9850	Target=5.94	98.5	321	
613.00 > 169.00	4.653	4.653	0.0	1.000	108467		5.80(2.97-8.92)		1255	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.673	4.673	0.0	1.120	27943	0.9069		94.1	848	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.834	4.834	0.0	1.260	119636	0.9218	Target=0.44	95.2	1747	
699.00 > 99.00	4.834	4.834	0.0	1.260	252848		0.47(0.22-0.66)		2065	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.867	4.867	0.0	1.046	523525	1.02	Target=3.97	102	364	
663.00 > 169.00	4.867	4.867	0.0	1.046	125040		4.19(1.99-5.96)		1314	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.063	5.063	0.0	1.439	563232	1.15		91.7	3655	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.063	5.063	0.0	1.000	89071	0.9667	Target=1.01	96.7	1532	
713.00 > 219.00	5.053	5.063	-0.010	0.998	88660		1.00(0.51-1.52)		1901	

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	5.416	5.416	0.0	1.539	560855	1.17		93.2	2553	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.416	5.416	0.0	1.000	421974	0.9745	Target=3.56	97.4	342	
813.00 > 169.00	5.416	5.416	0.0	1.000	118952		3.55(1.78-5.34)		1831	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.756	5.756	0.0	1.063	362034	0.9445	Target=3.39	94.5	395	
913.00 > 169.00	5.756	5.756	0.0	1.063	108746		3.33(1.70-5.09)		1145	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00024

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d

Injection Date: 21-May-2021 16:24:07

Instrument ID: LC812

Lims ID: CCVIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

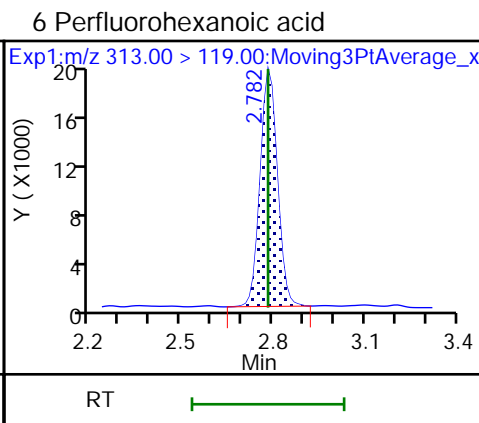
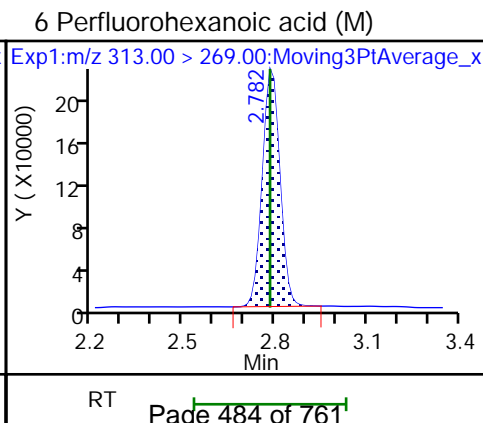
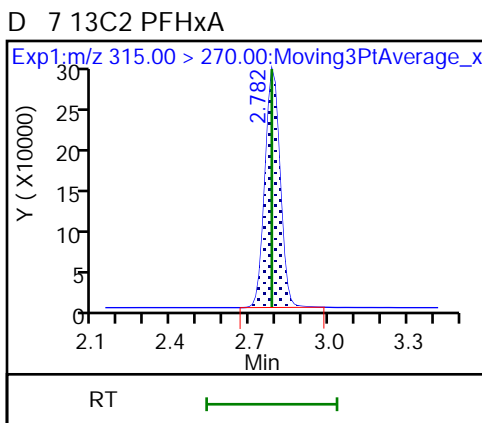
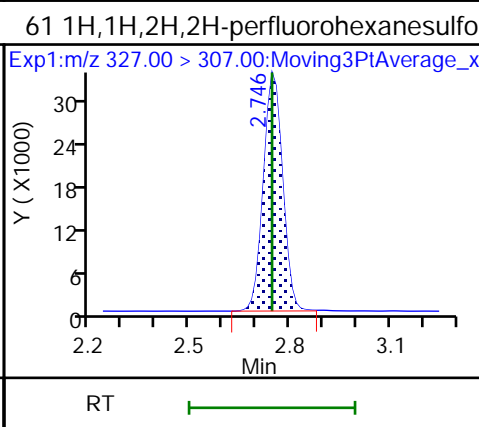
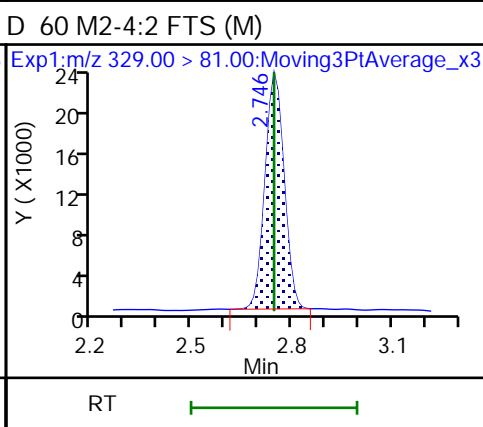
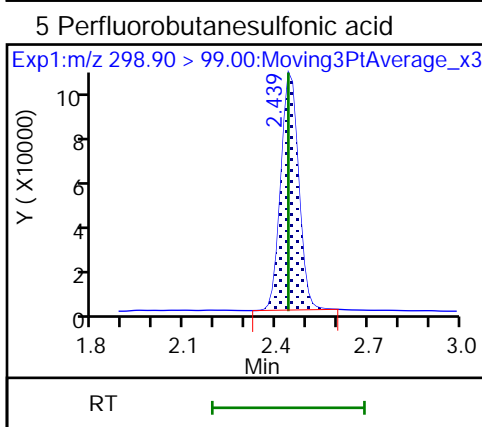
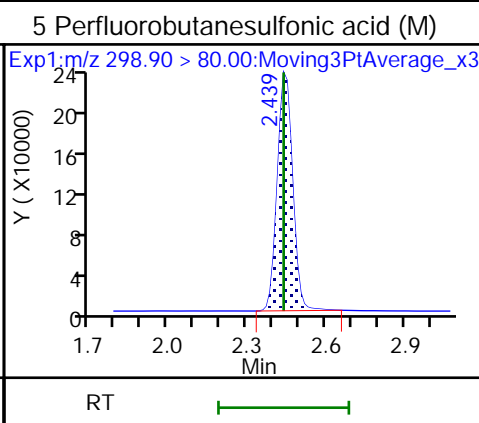
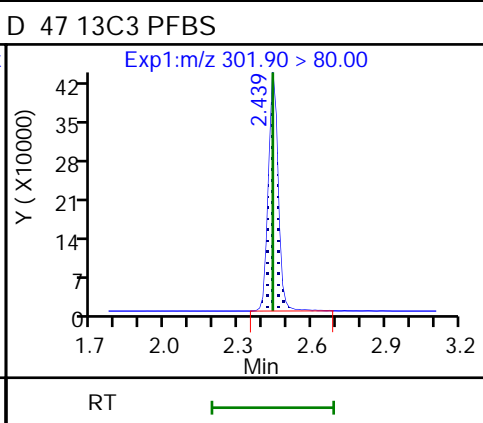
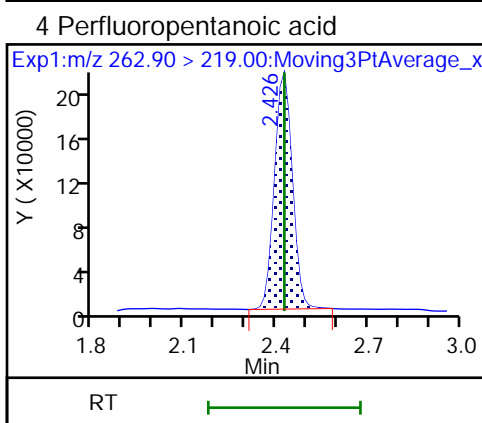
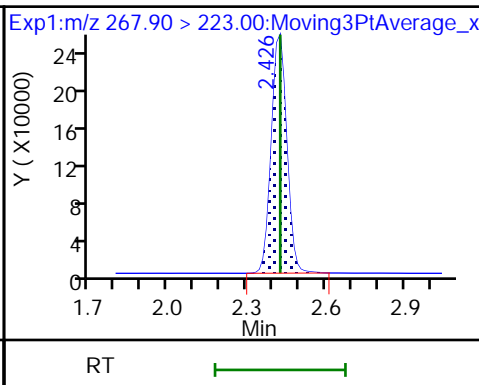
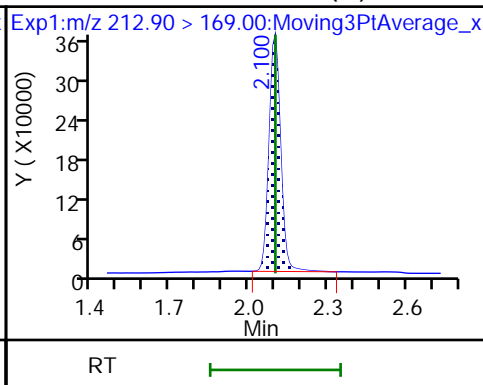
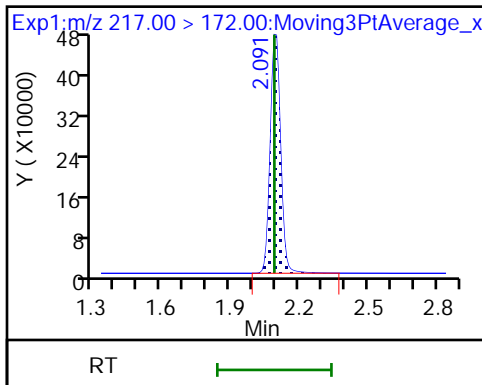
Method: PFC_LC812

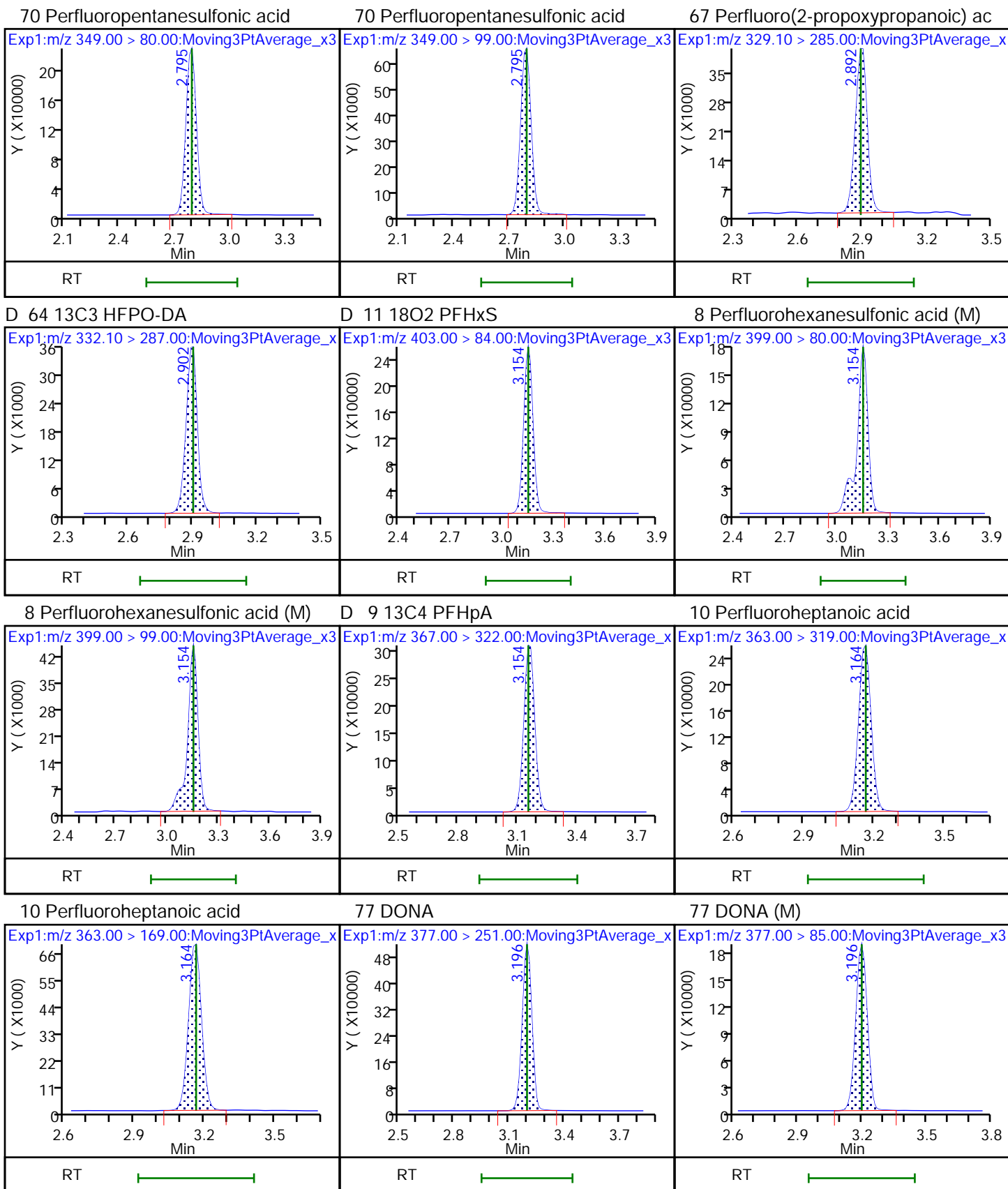
Limit Group: LC_PFC_ICAL

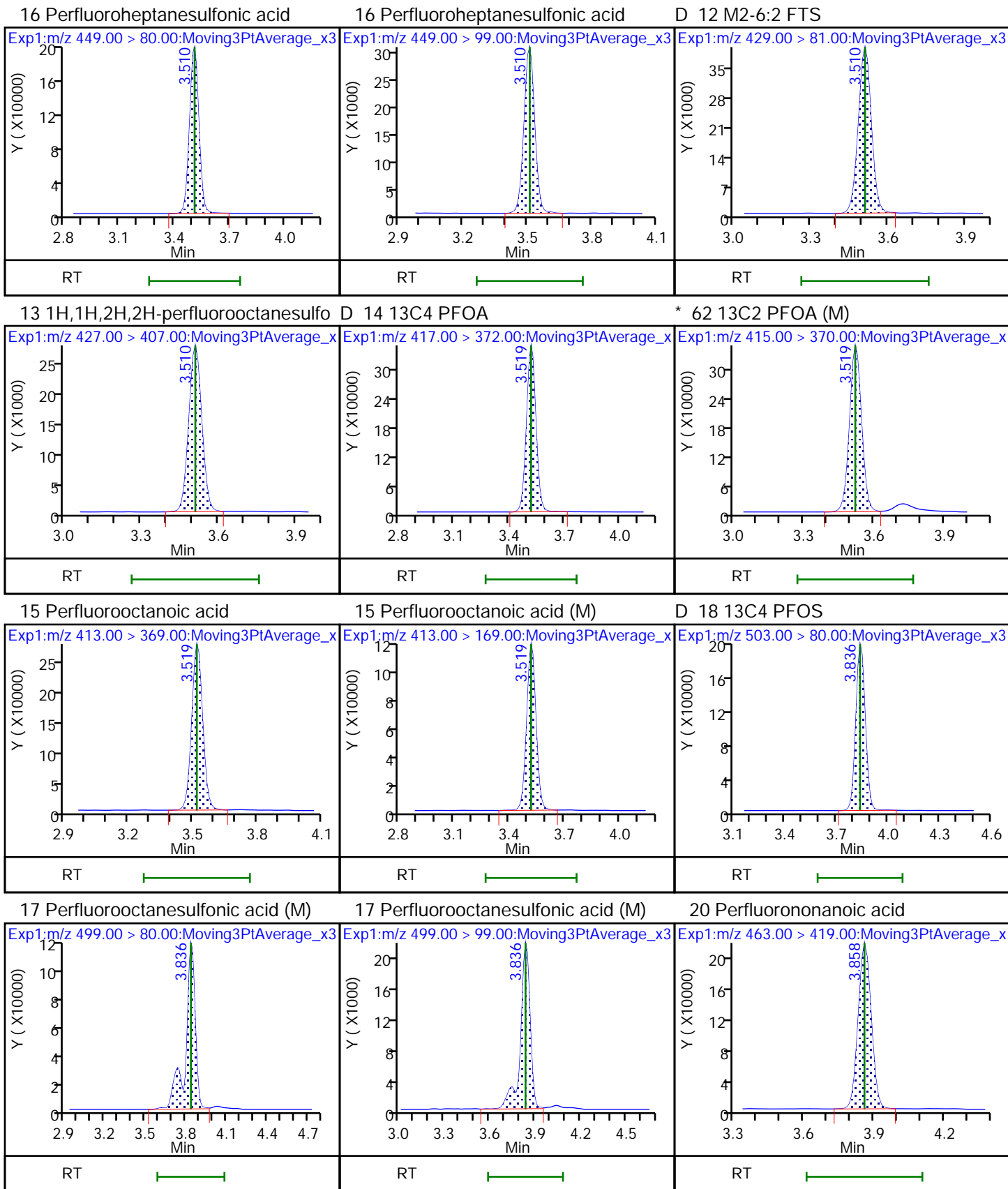
D 1 13C4 PFBA

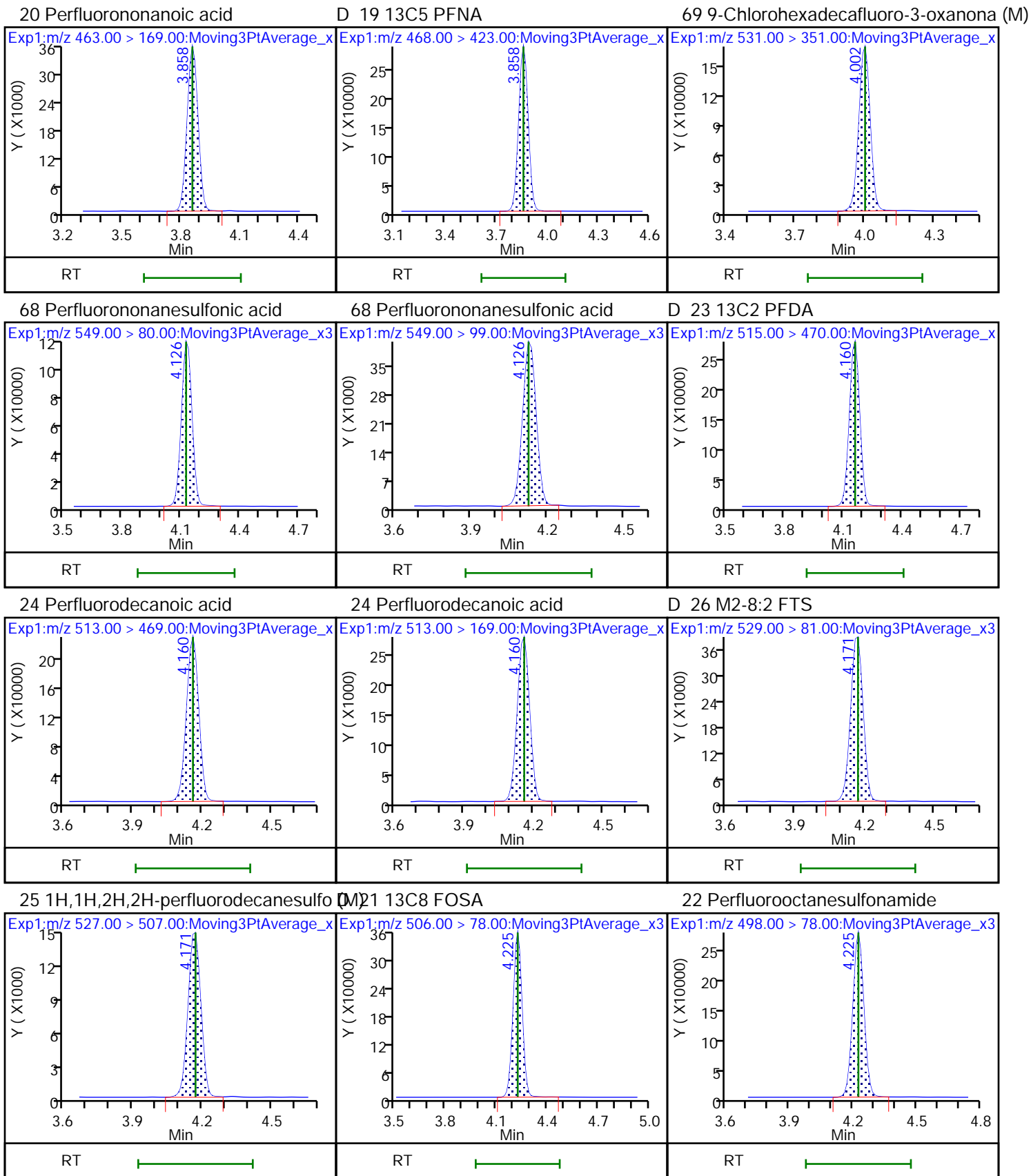
2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA



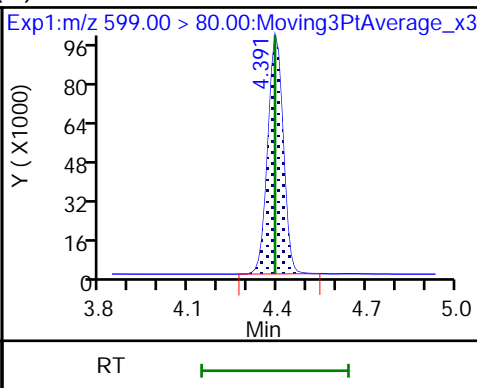
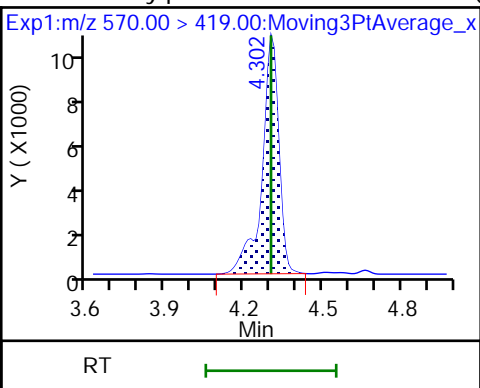
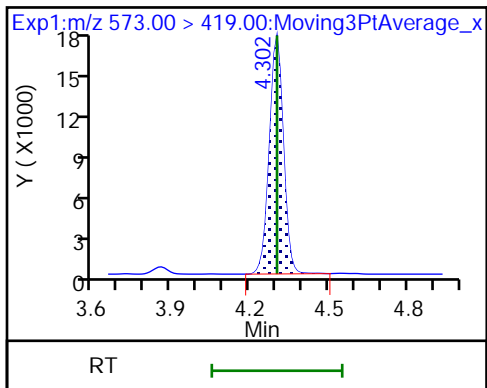






D 27 d3-NMeFOSAA

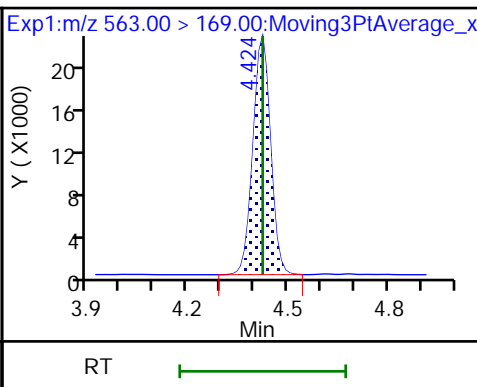
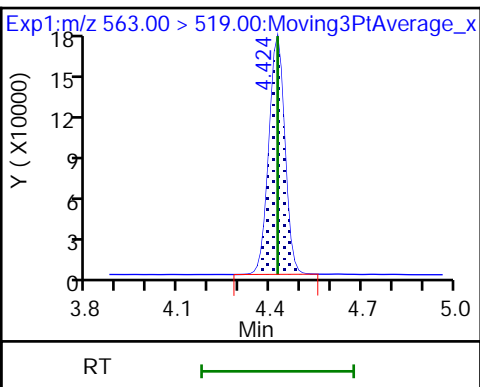
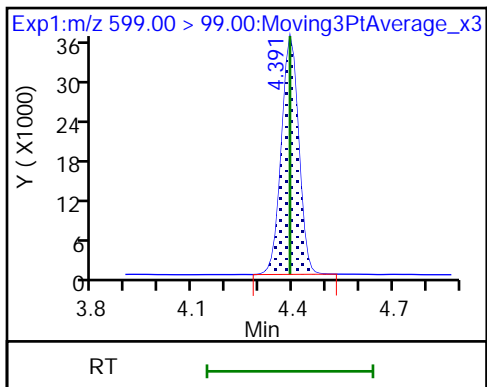
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

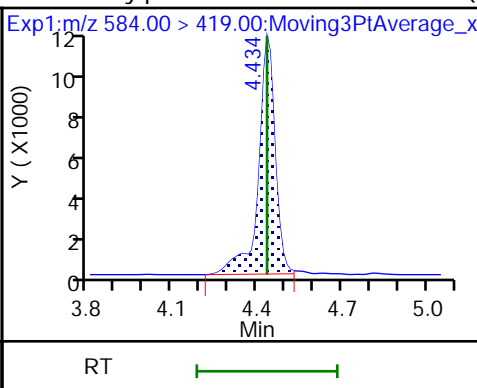
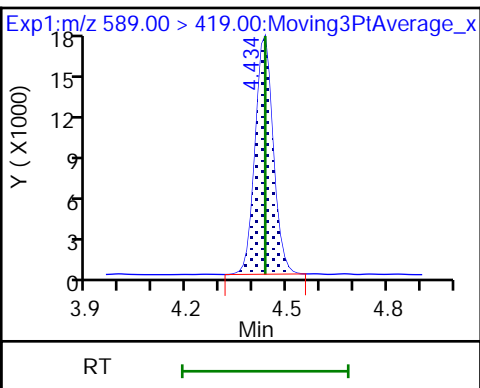
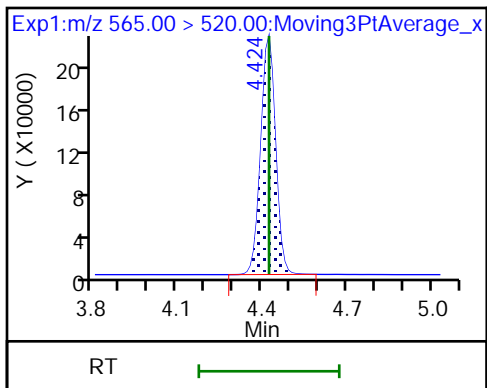
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

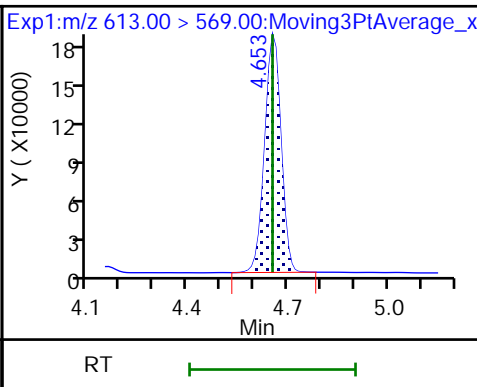
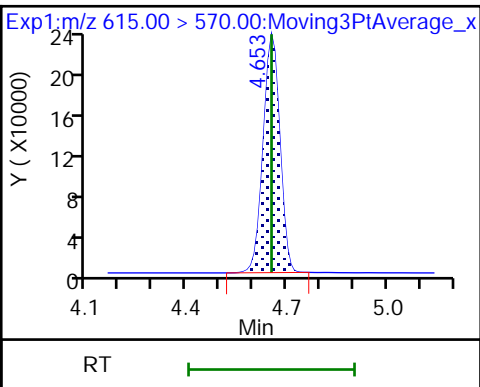
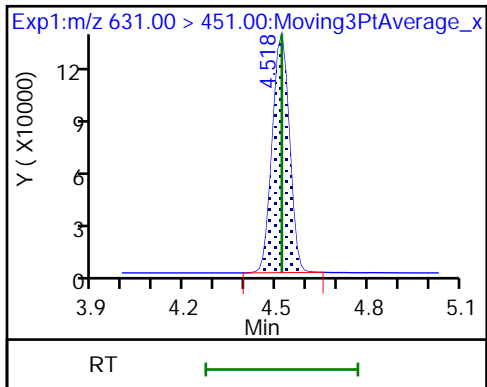
33 N-ethylperfluorooctanesulfonamid (M)

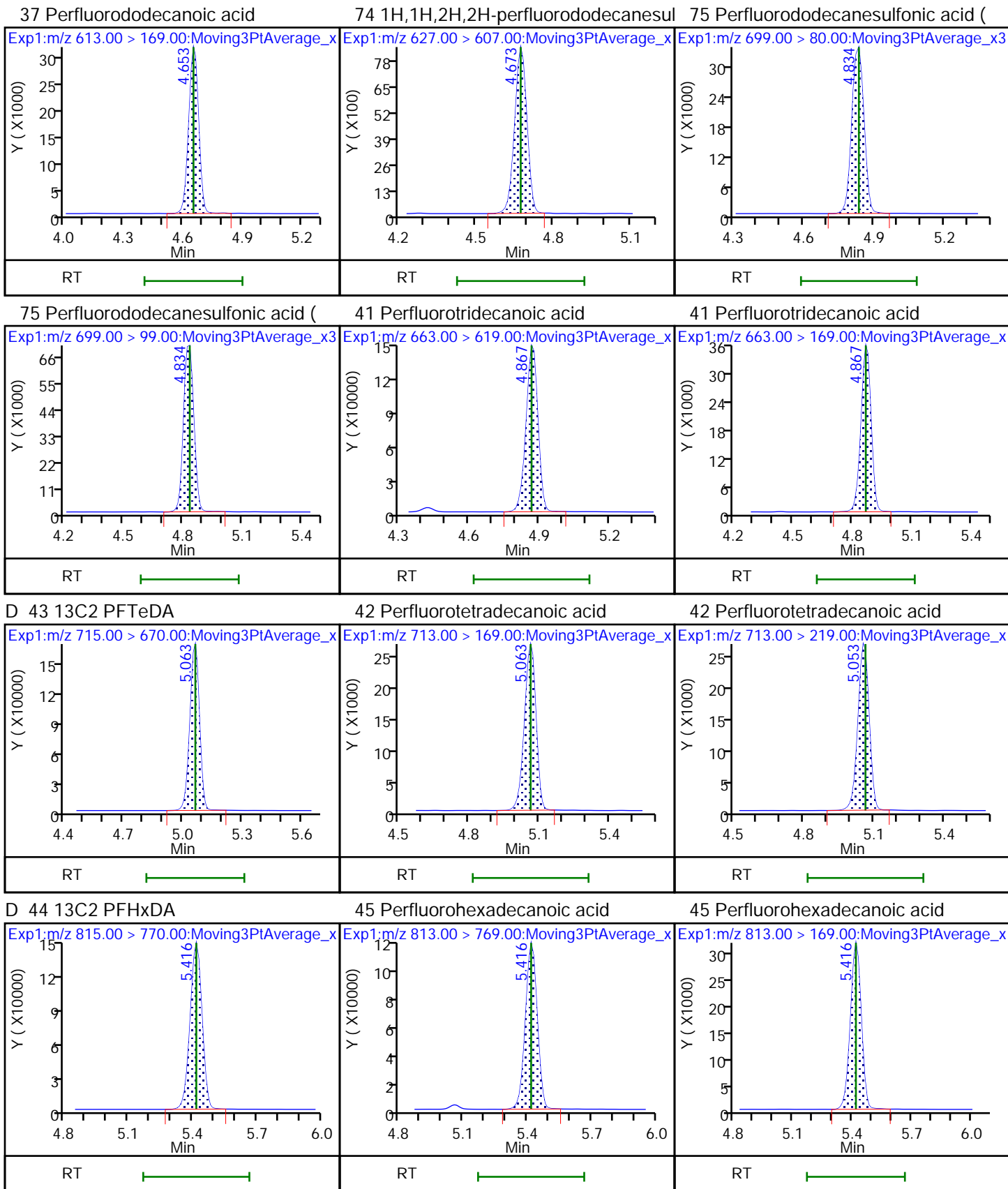


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDaA

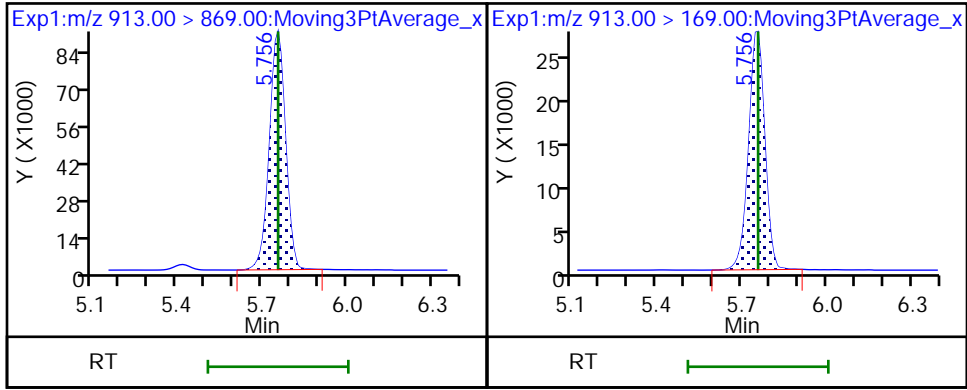
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



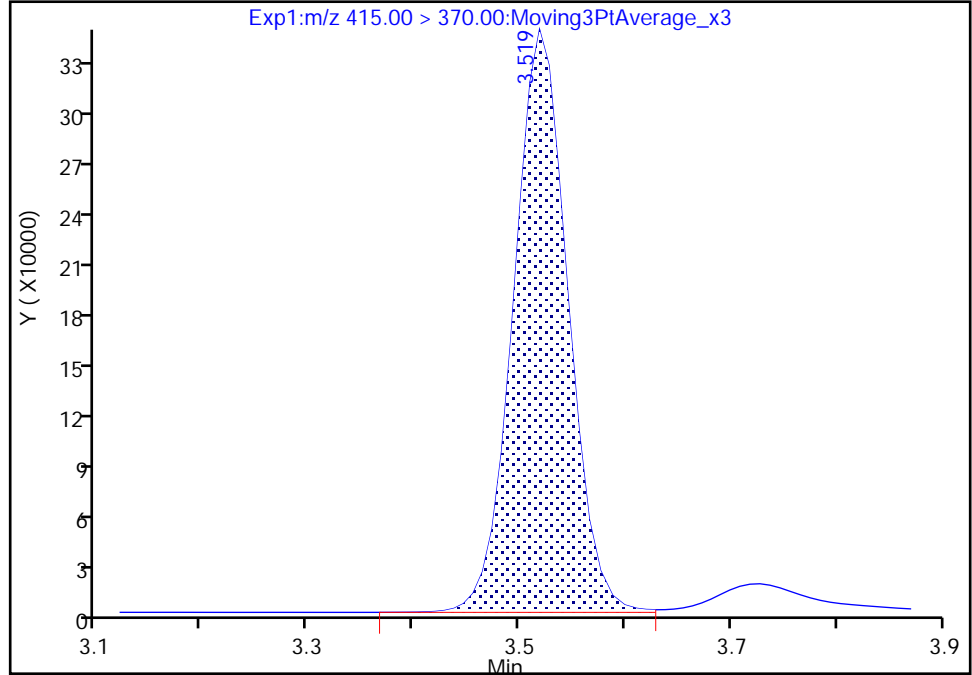
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
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

* 62 13C2 PFOA, CAS: STL00623
Signal: 1

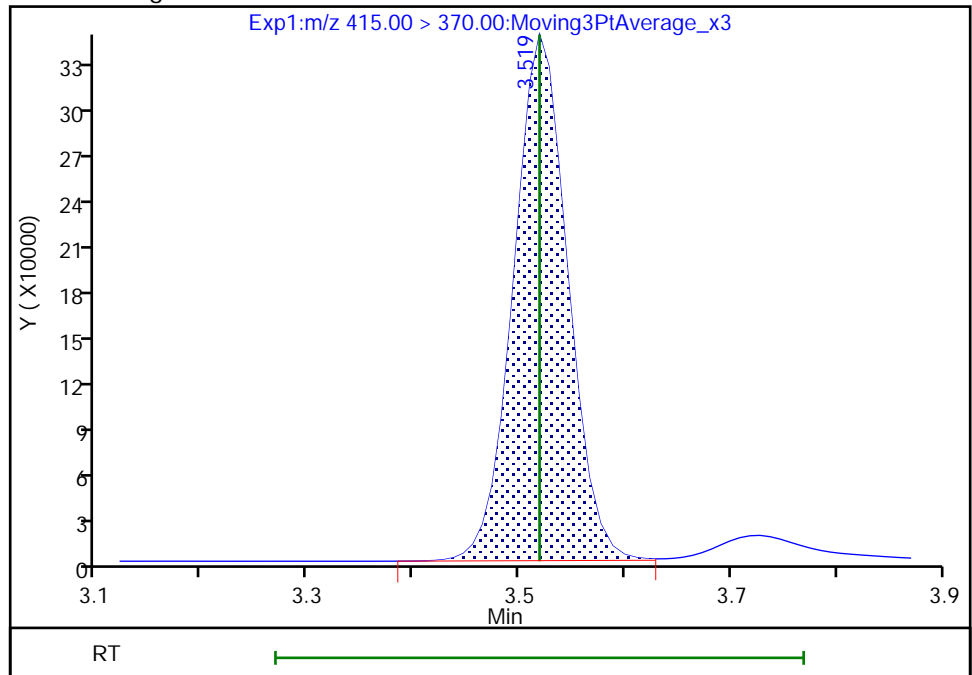
RT: 3.52
Area: 1242229
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1237077
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 09:45:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

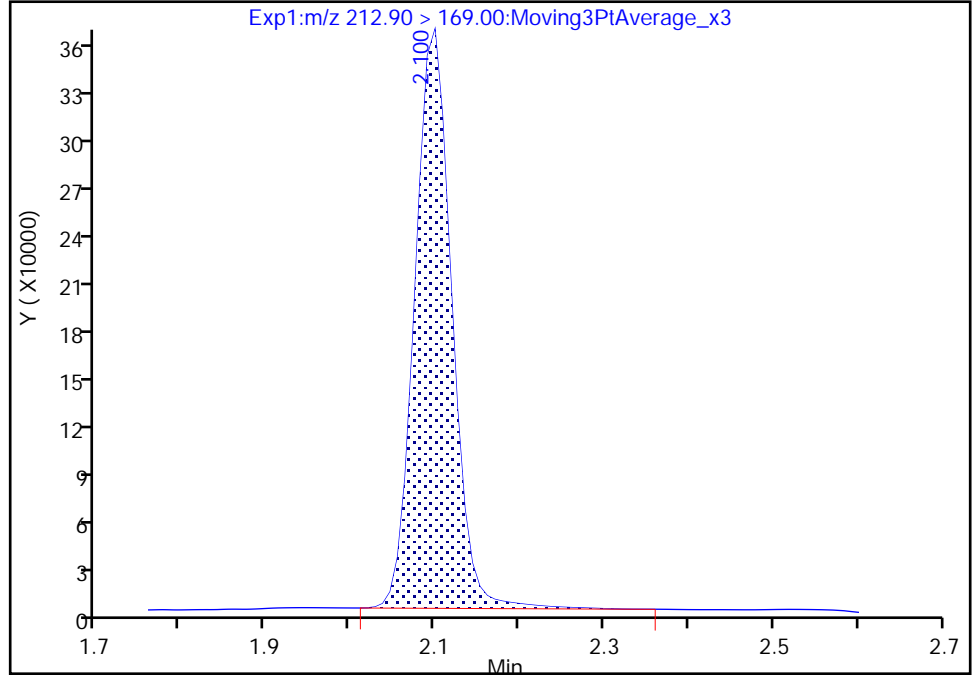
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

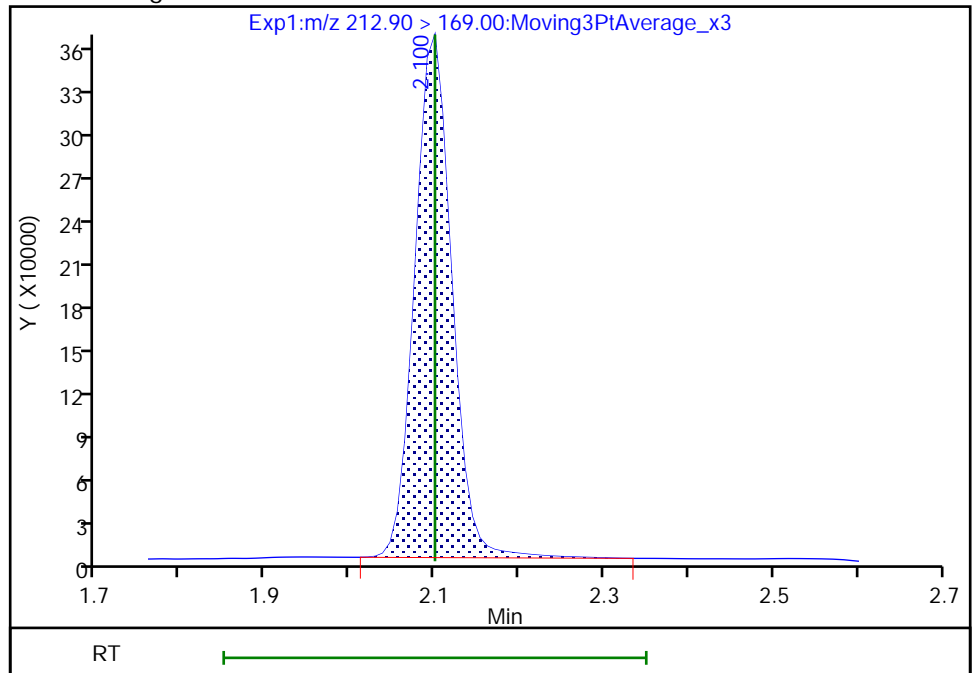
RT: 2.10
Area: 1081756
Amount: 0.986245
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 1081580
Amount: 0.986085
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:26:57
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

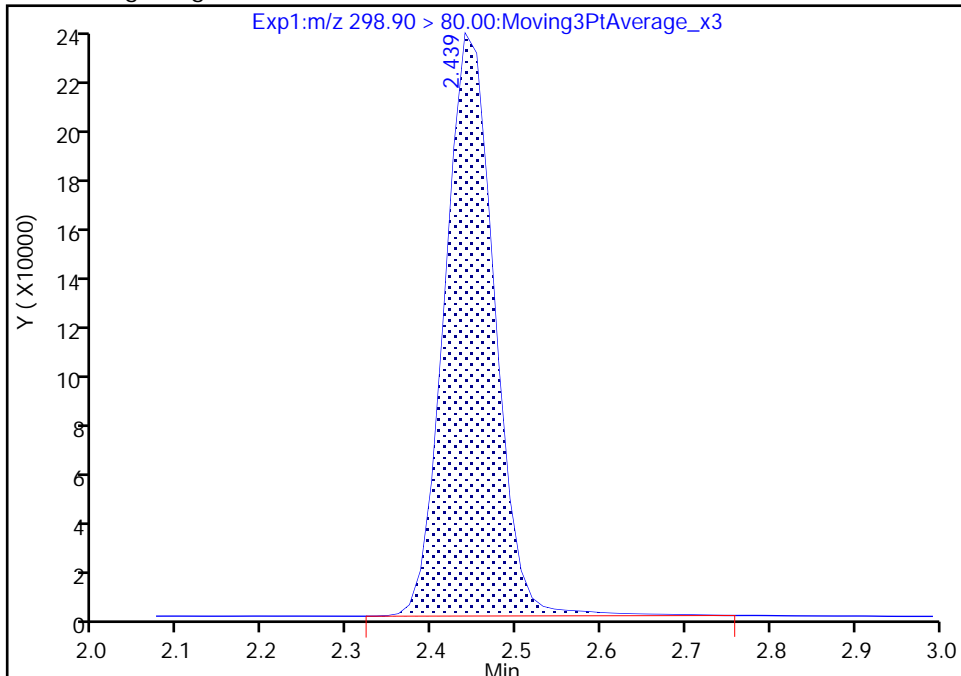
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

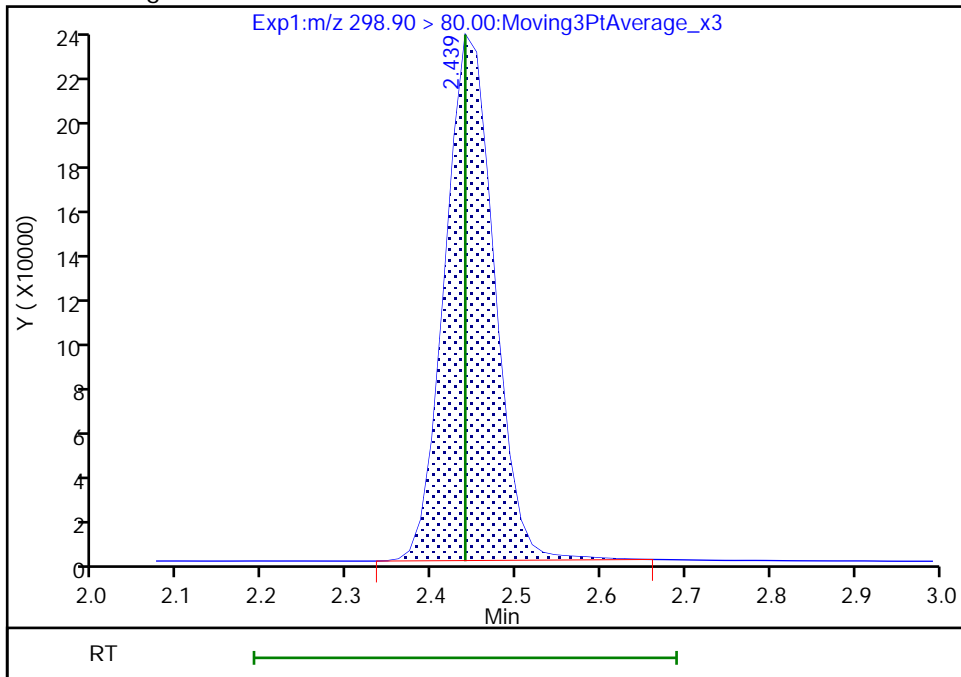
RT: 2.44
Area: 956841
Amount: 0.916624
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 950410
Amount: 0.910463
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:27:08
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

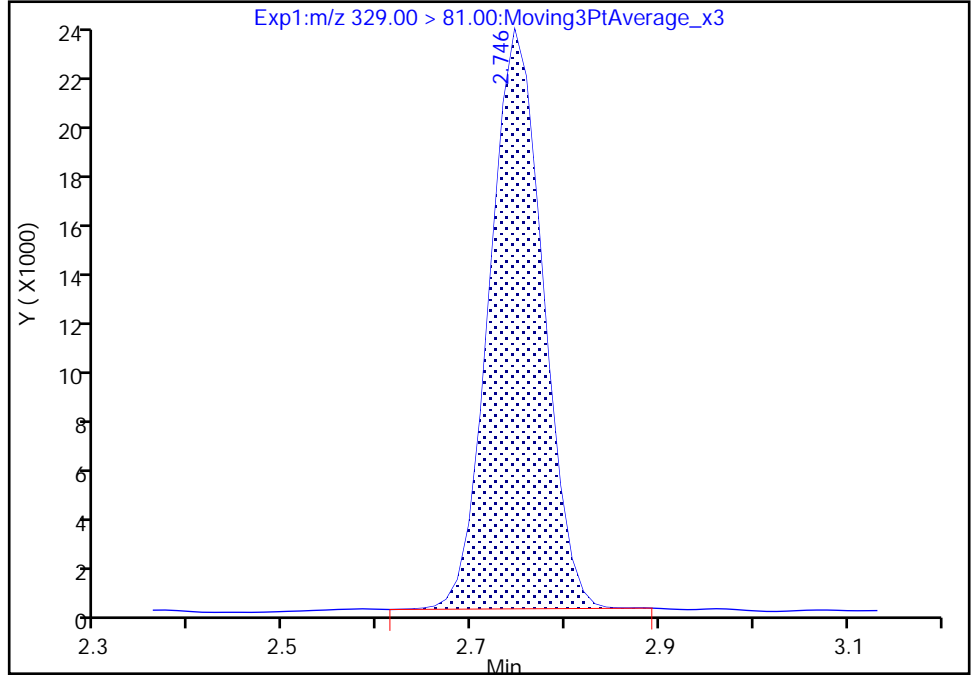
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Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

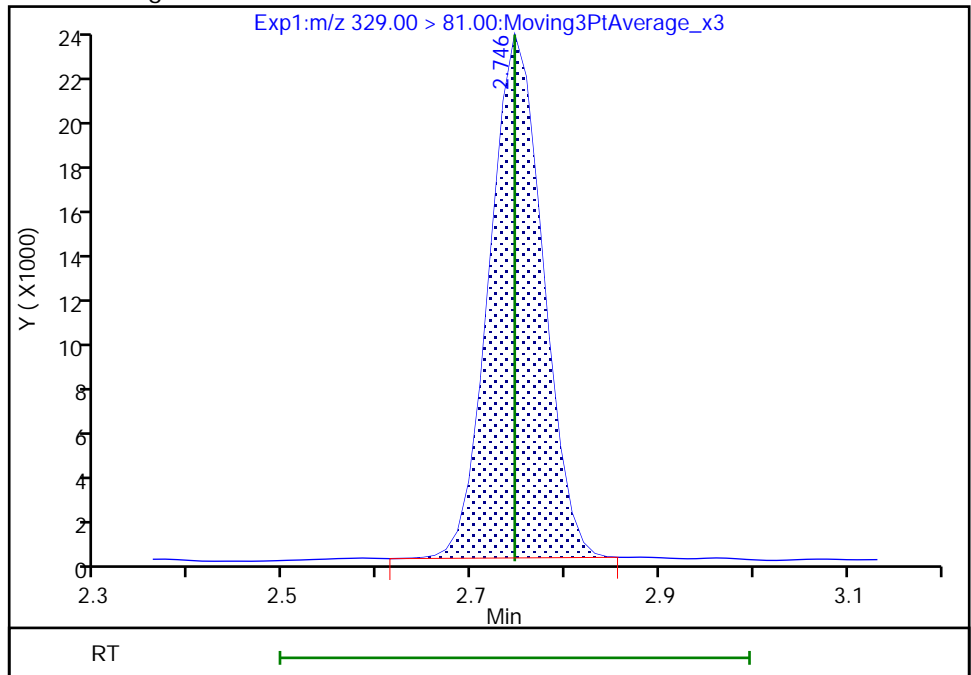
RT: 2.75
Area: 90563
Amount: 1.031348
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 90462
Amount: 1.034489
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:26:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

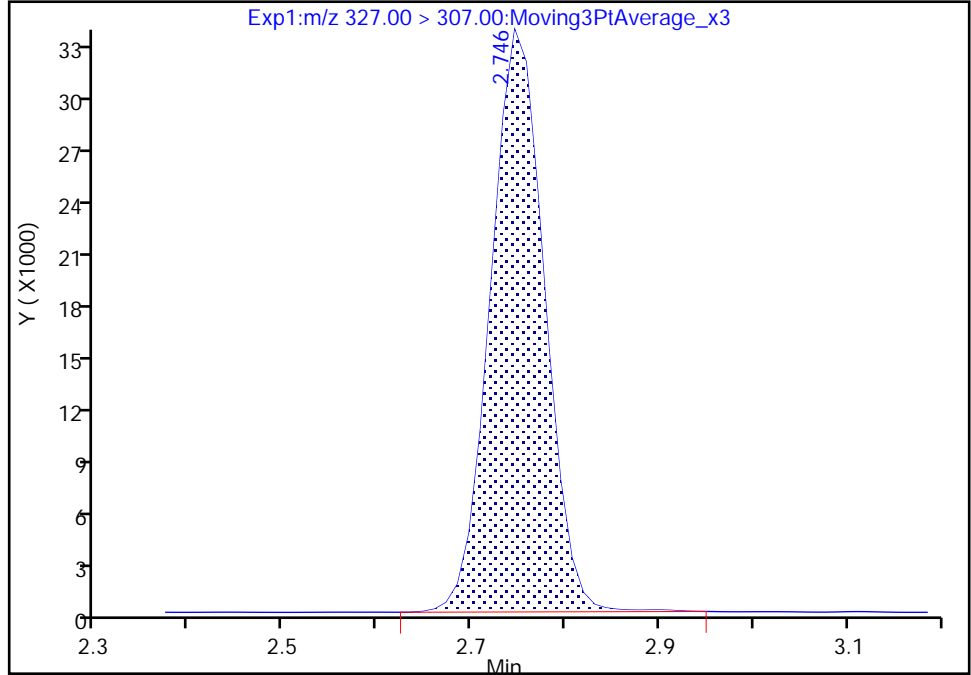
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Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

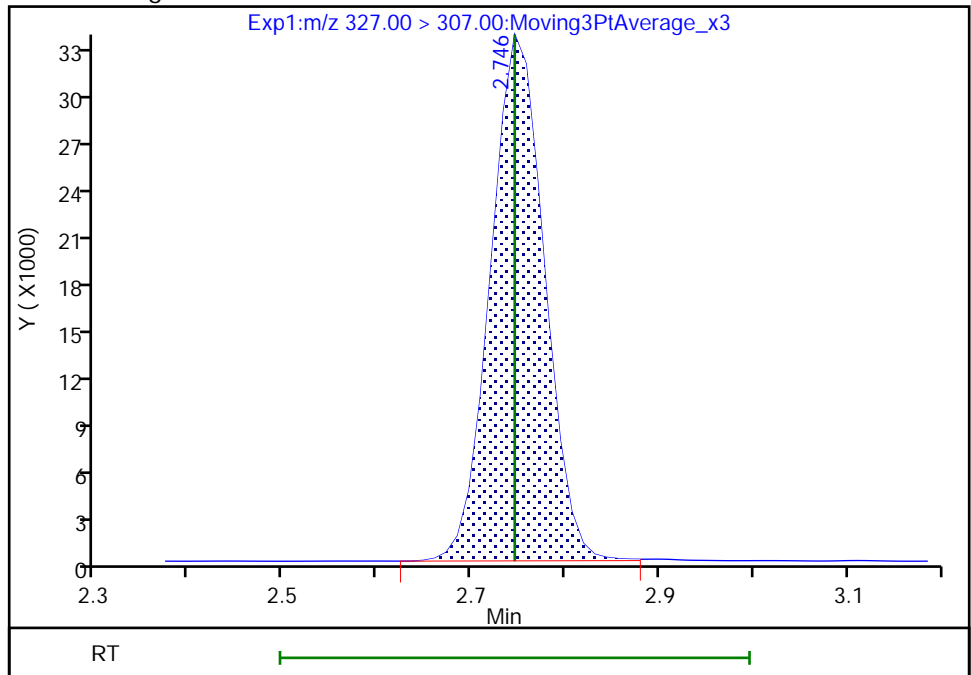
RT: 2.75
Area: 133184
Amount: 0.986161
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 132976
Amount: 0.984621
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:27:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

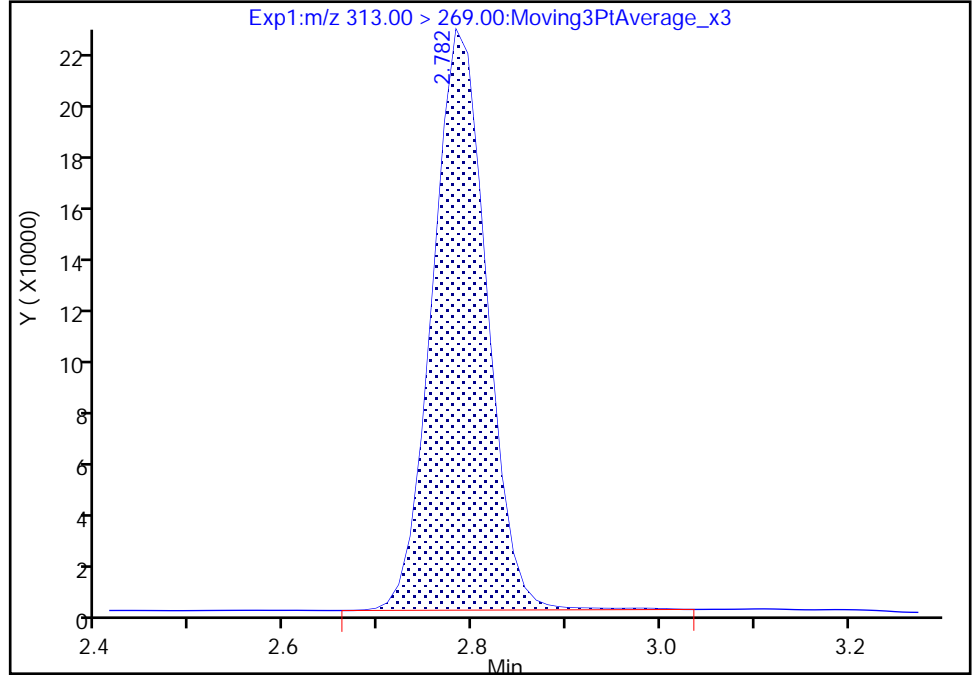
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

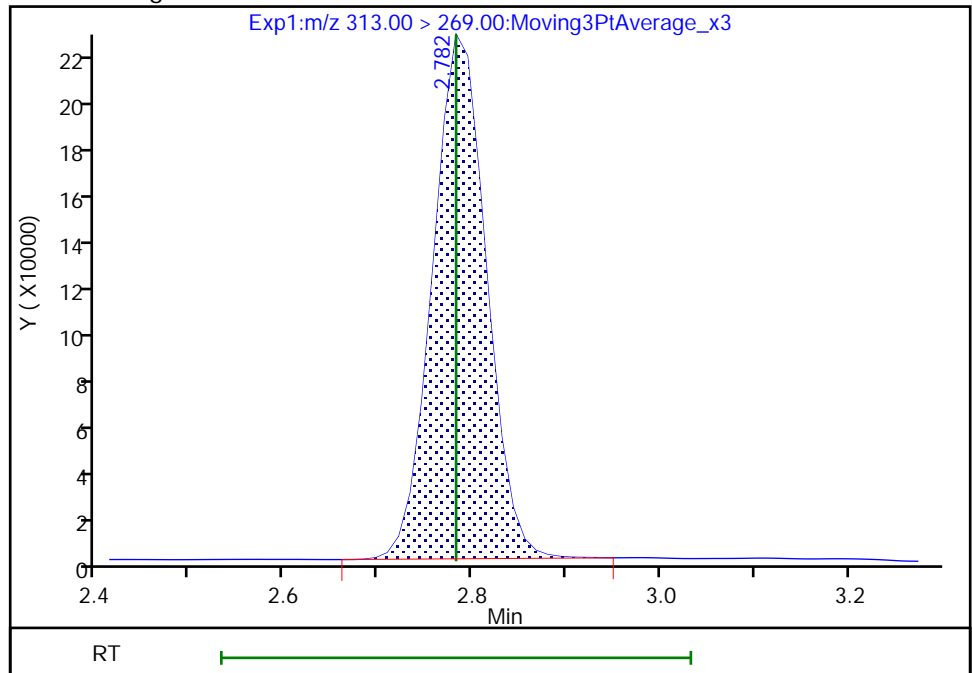
RT: 2.78
Area: 895409
Amount: 0.934593
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 889956
Amount: 0.928902
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:27:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

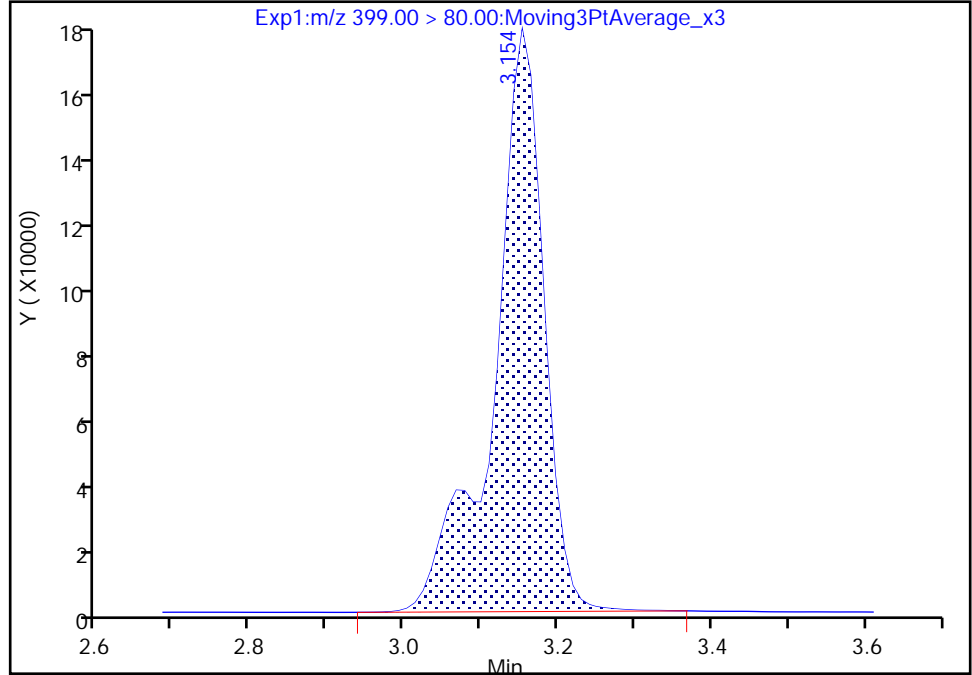
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

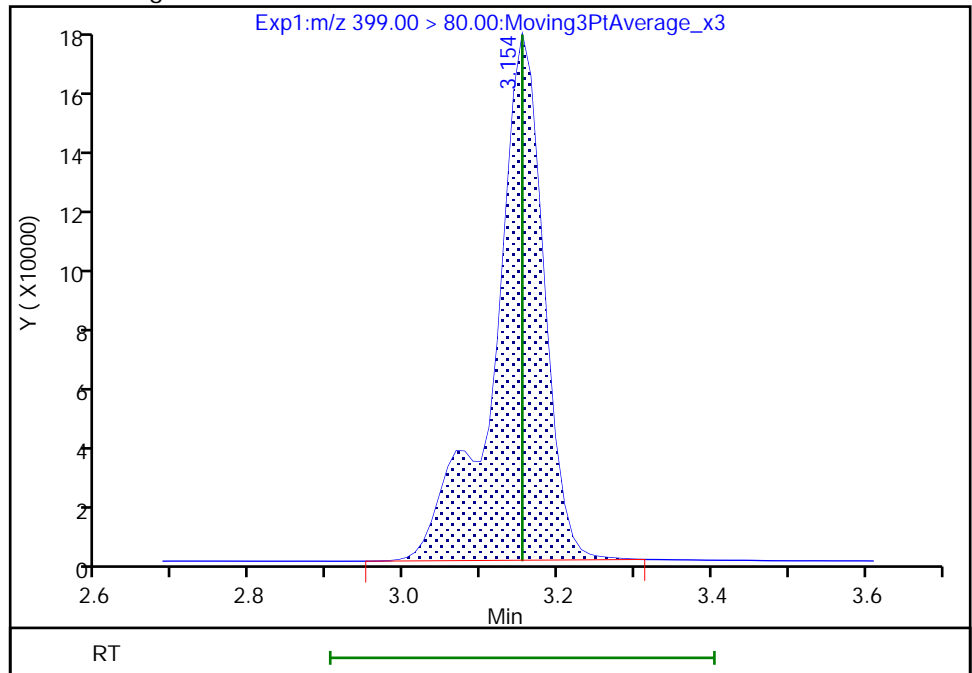
RT: 3.15
Area: 800052
Amount: 0.900164
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 797573
Amount: 0.897375
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:27:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

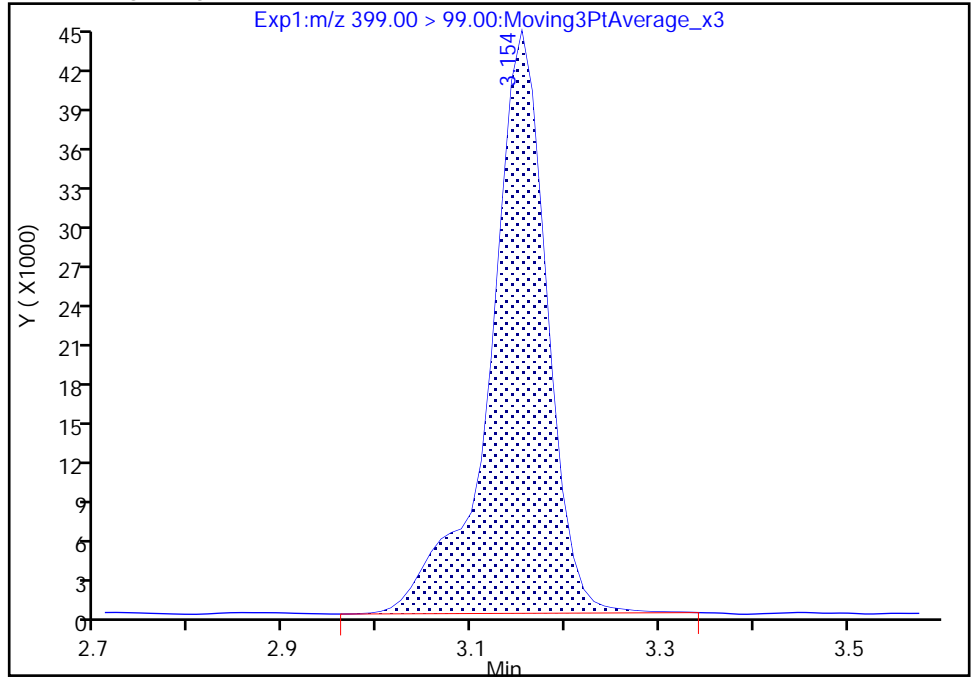
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Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

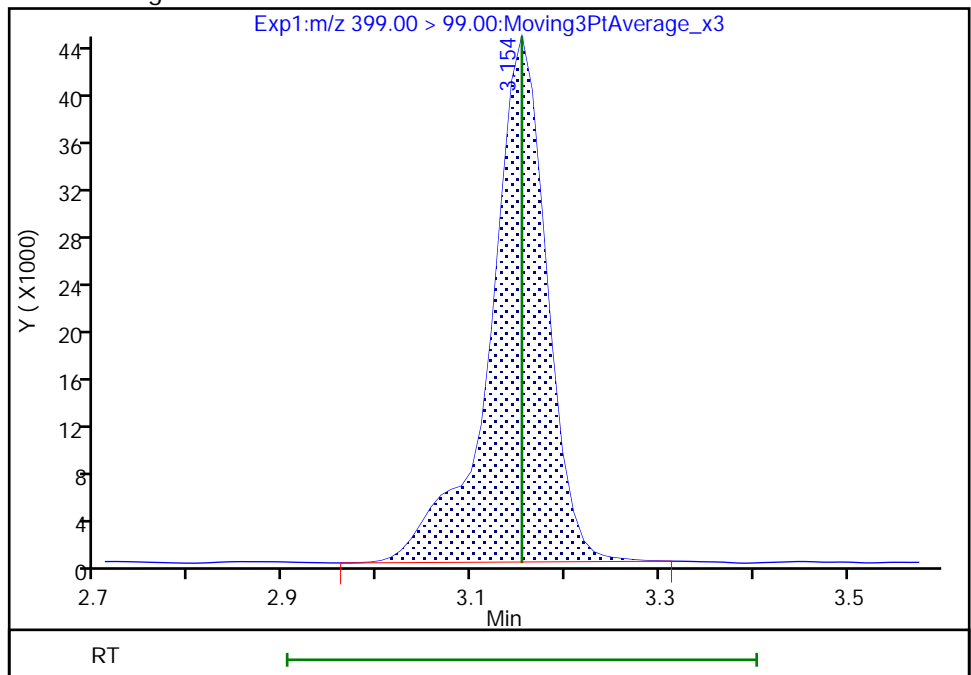
RT: 3.15
Area: 187760
Amount: 0.900164
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 187220
Amount: 0.897375
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:27:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

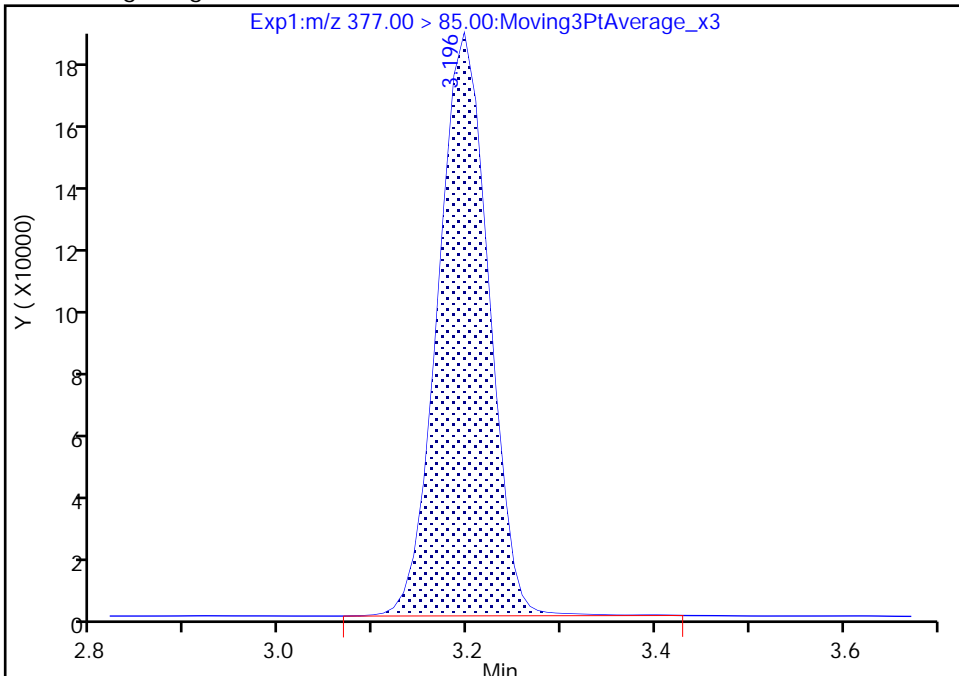
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

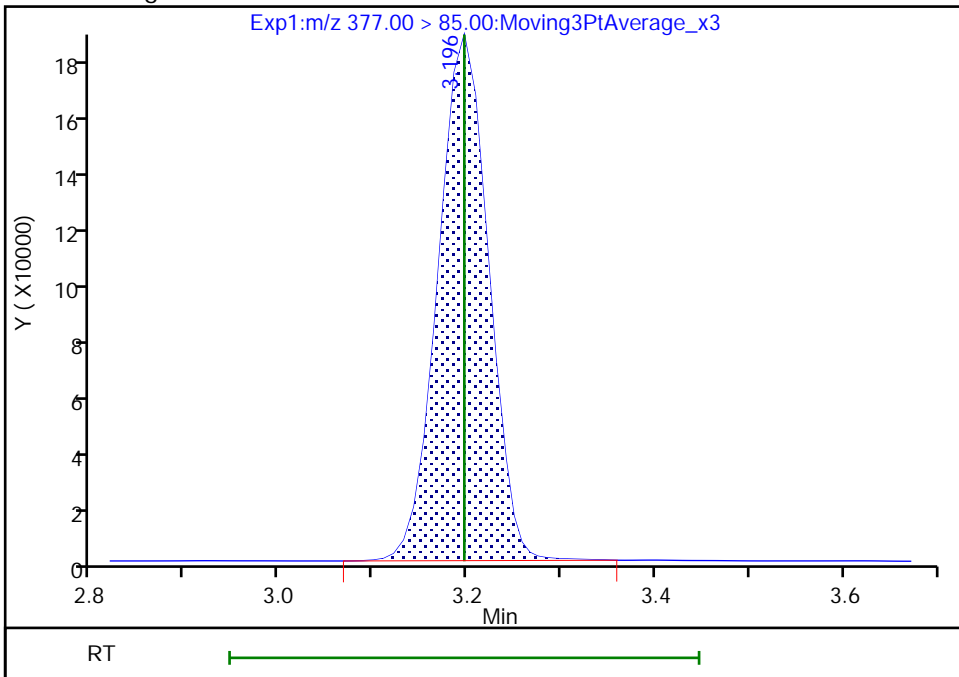
RT: 3.20
Area: 709052
Amount: 0.981665
Amount Units: ng/ml

Processing Integration Results



RT: 3.20
Area: 707574
Amount: 0.981665
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:28:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

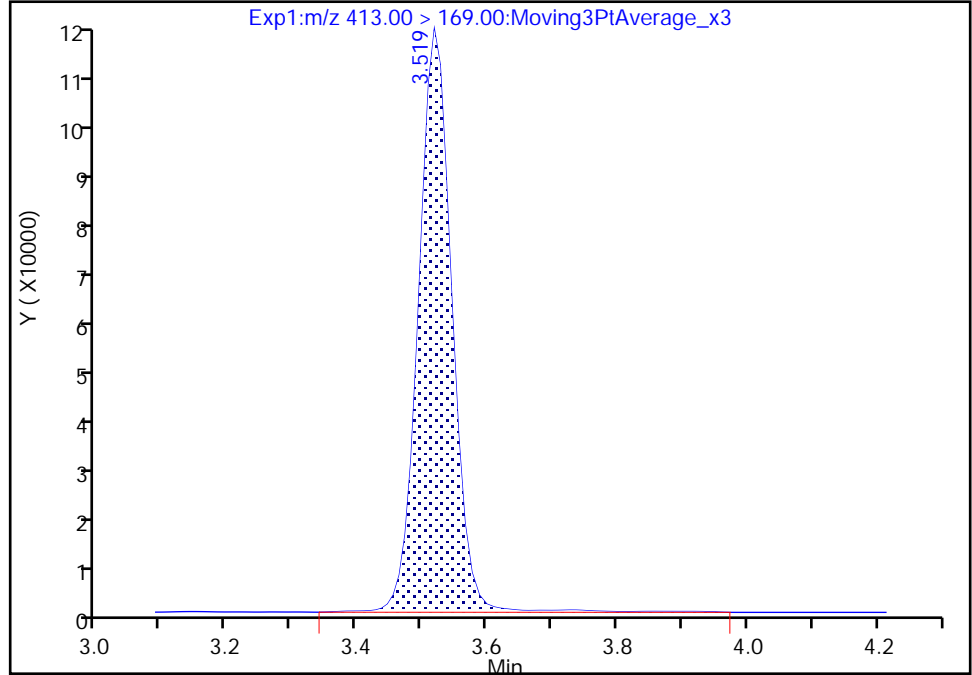
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

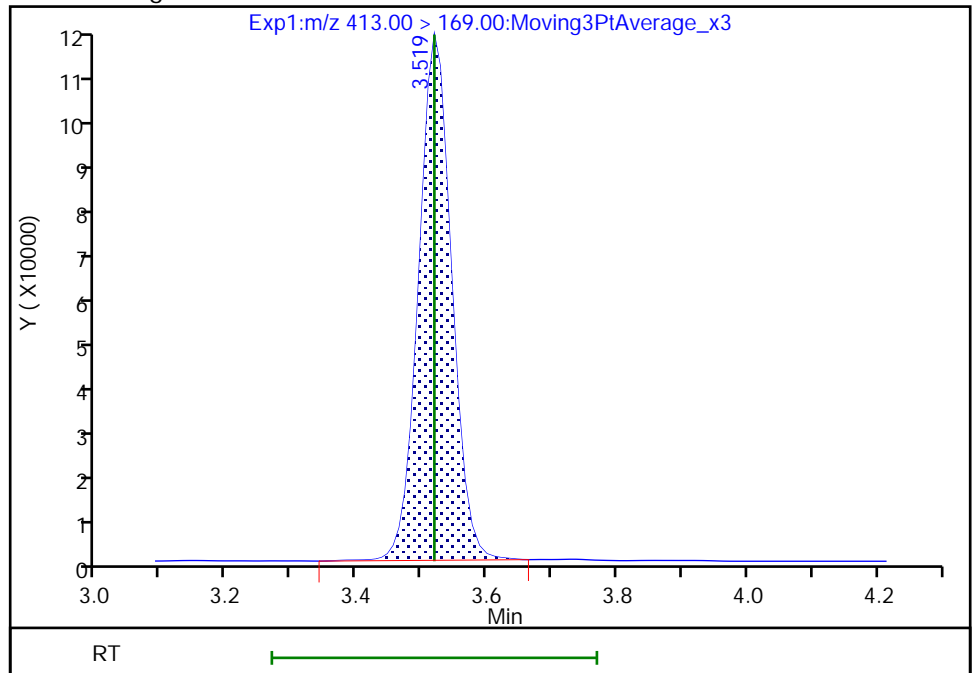
RT: 3.52
Area: 400539
Amount: 0.978977
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 393582
Amount: 0.978977
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:28:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

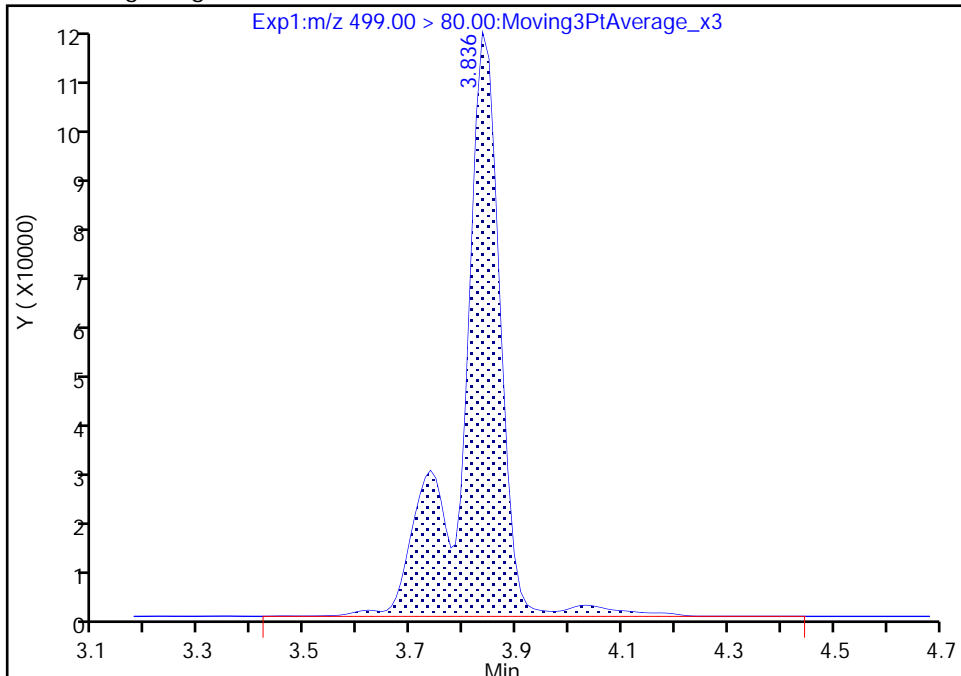
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

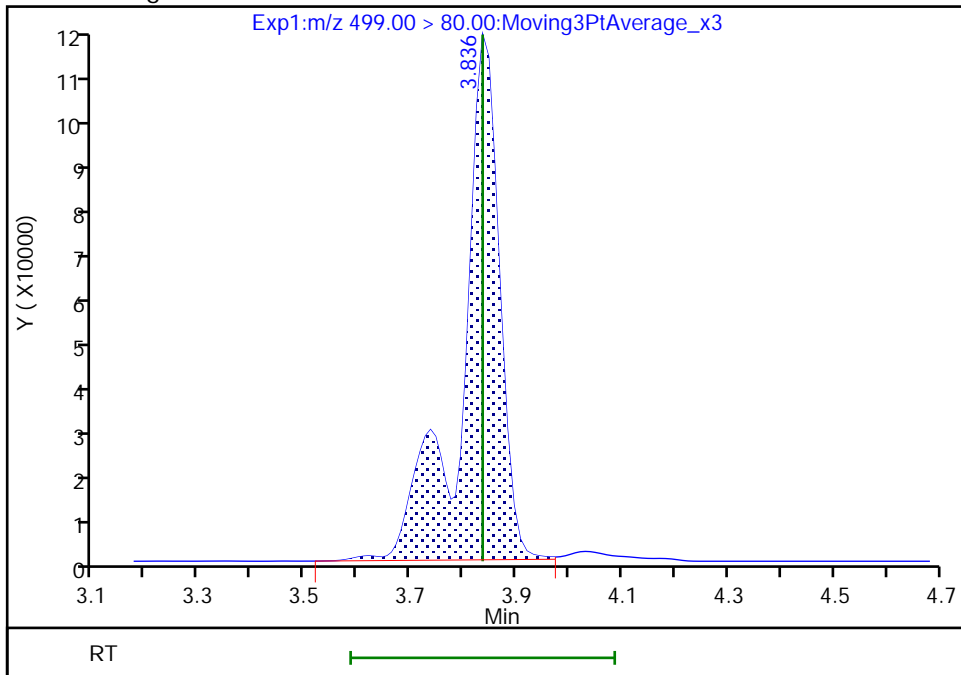
RT: 3.84
Area: 611573
Amount: 0.942394
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 587894
Amount: 0.905906
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

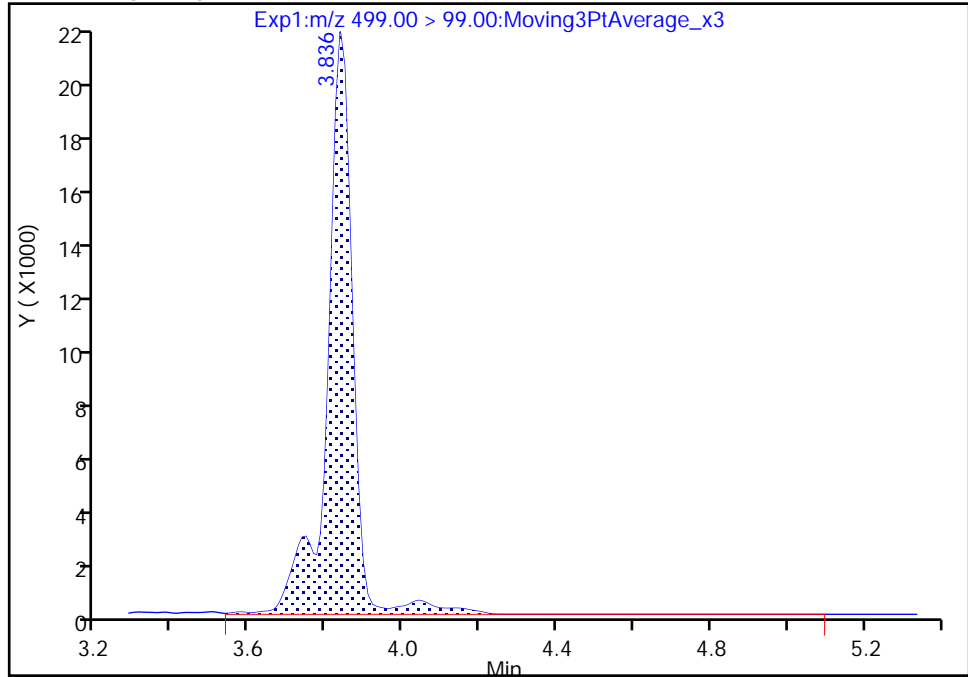
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46088.b\PA210521AAA03.d
Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

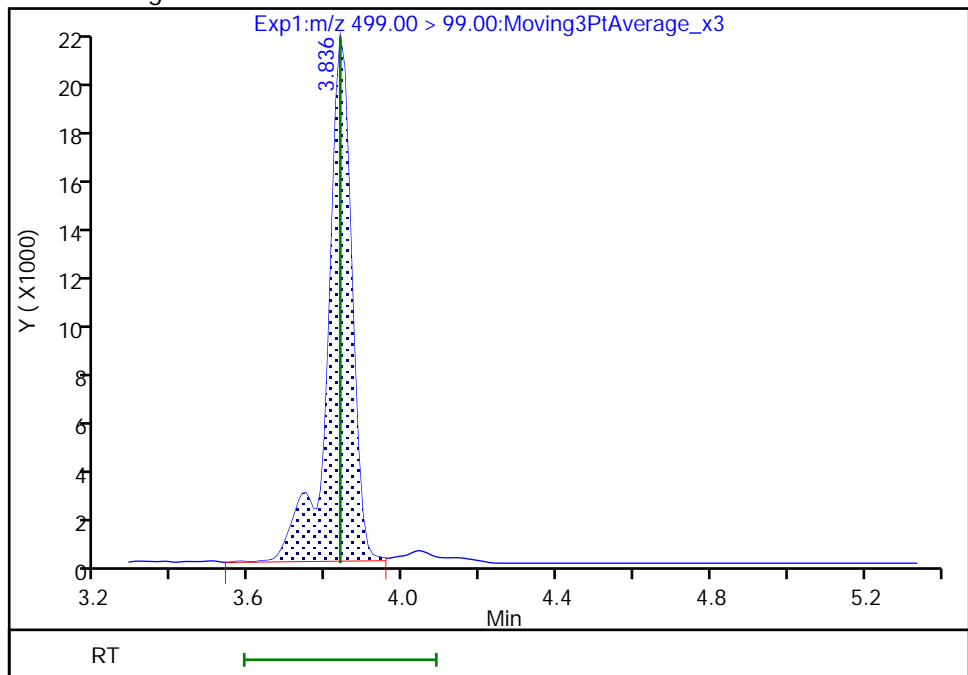
RT: 3.84
Area: 99864
Amount: 0.942394
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 94043
Amount: 0.905906
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 09:45:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

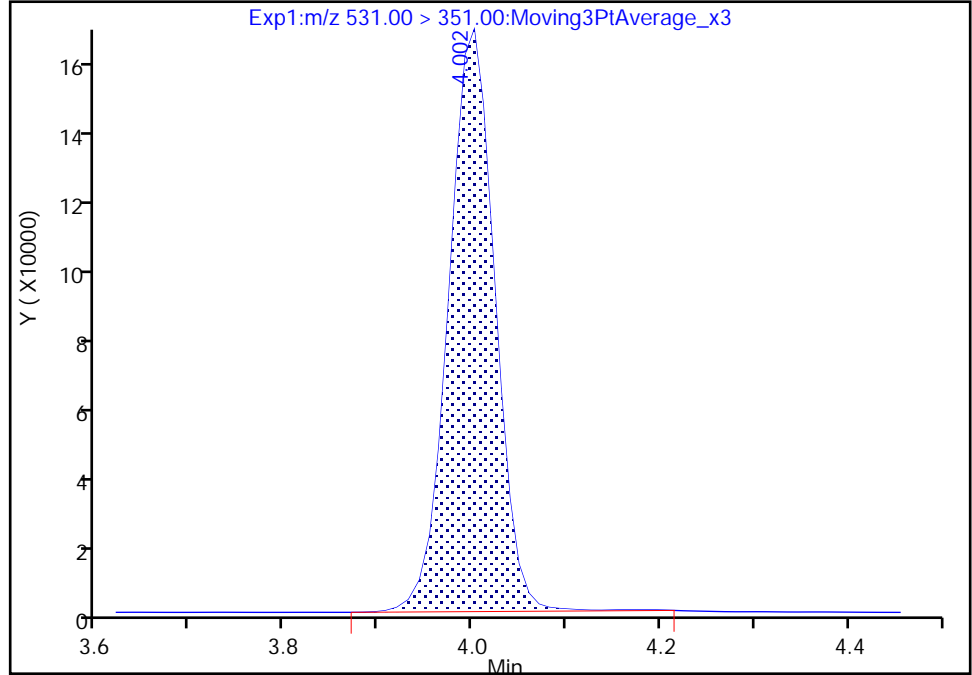
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Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

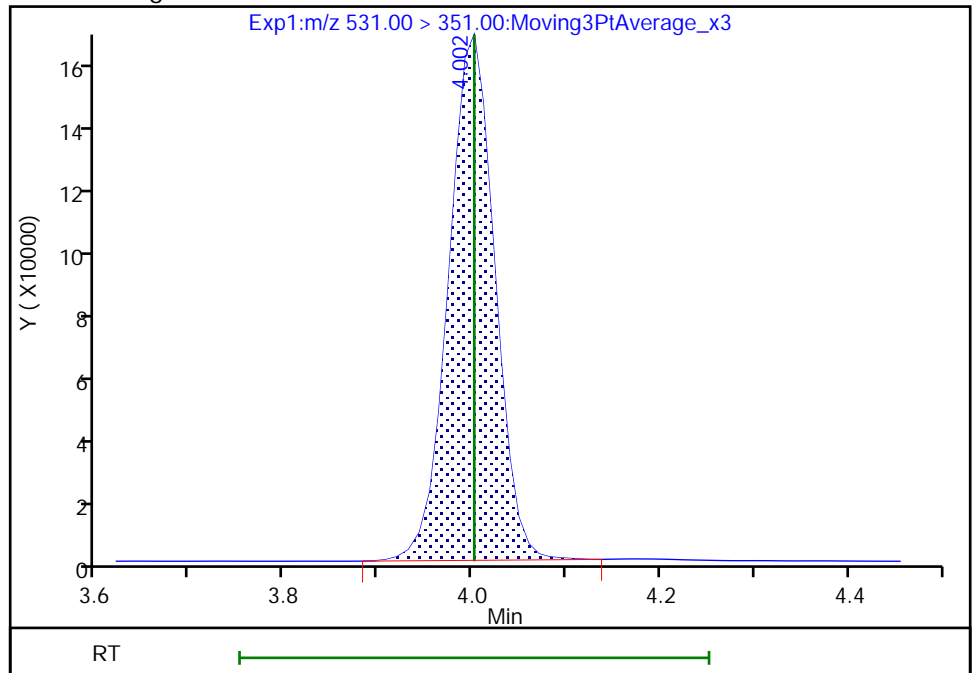
RT: 4.00
Area: 561107
Amount: 0.898701
Amount Units: ng/ml

Processing Integration Results



RT: 4.00
Area: 559141
Amount: 0.895552
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:29:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

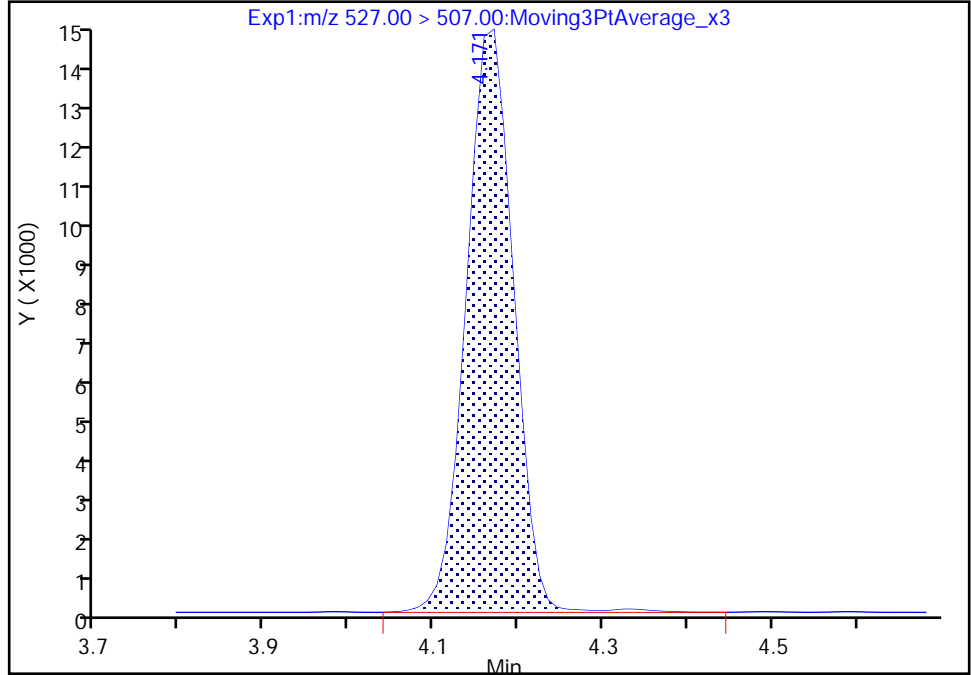
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Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

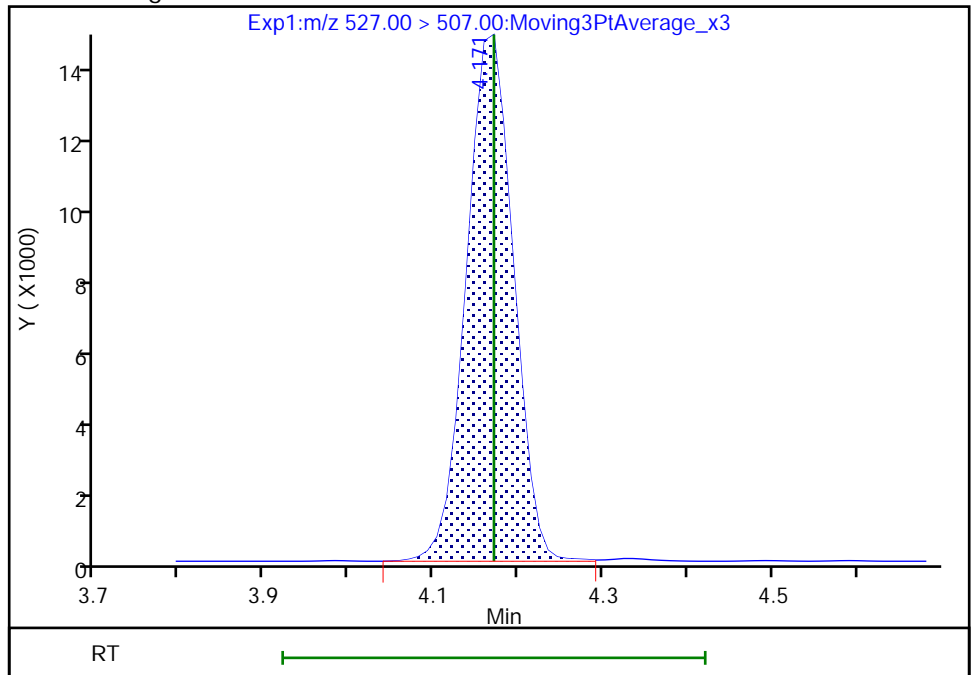
RT: 4.17
Area: 55534
Amount: 0.924698
Amount Units: ng/ml

Processing Integration Results



RT: 4.17
Area: 55265
Amount: 0.920219
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 24-May-2021 09:29:47
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

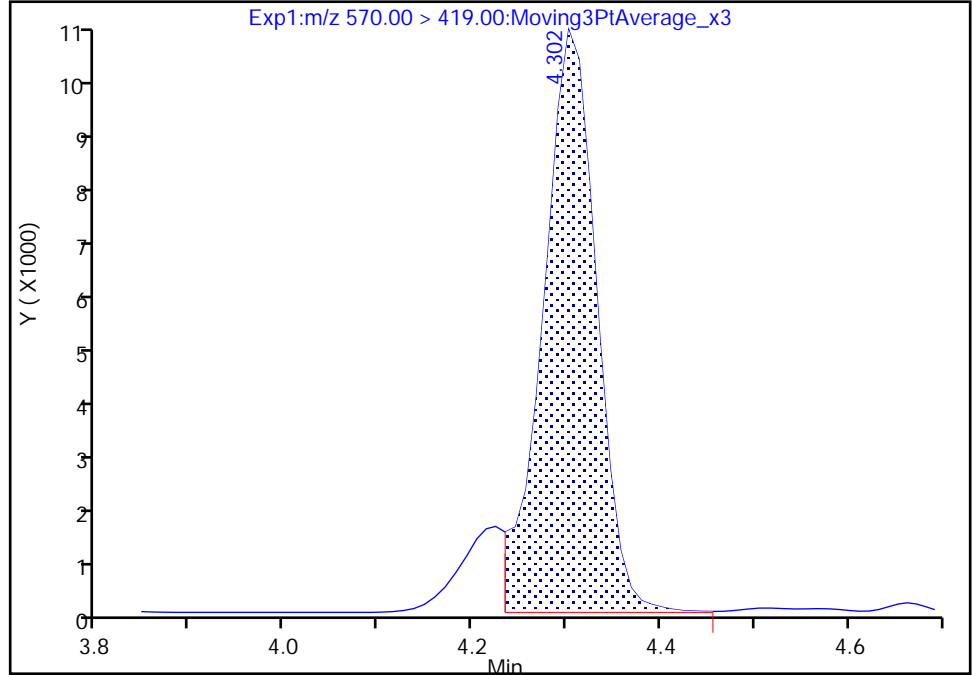
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Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

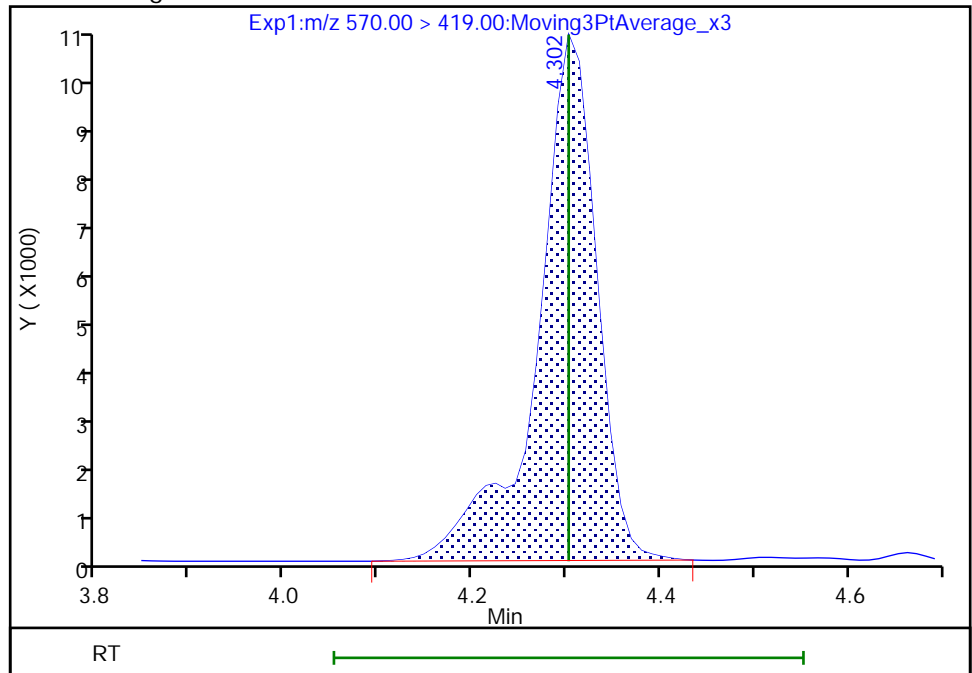
RT: 4.30
Area: 41242
Amount: 0.888443
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 45921
Amount: 0.989239
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 09:46:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 505 of 761

Eurofins TestAmerica, Burlington

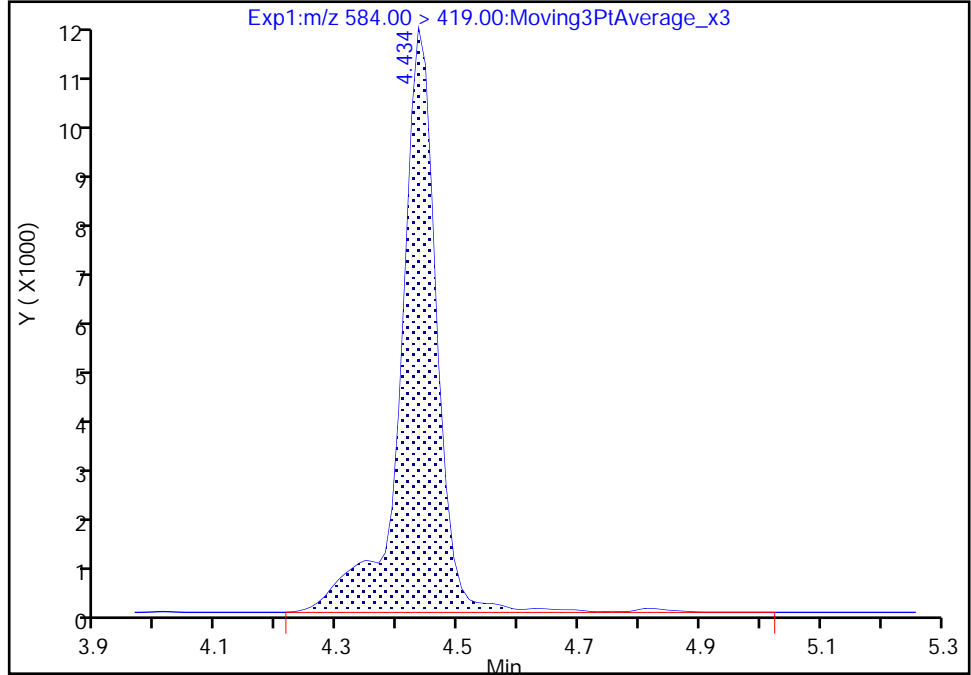
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Injection Date: 21-May-2021 16:24:07 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

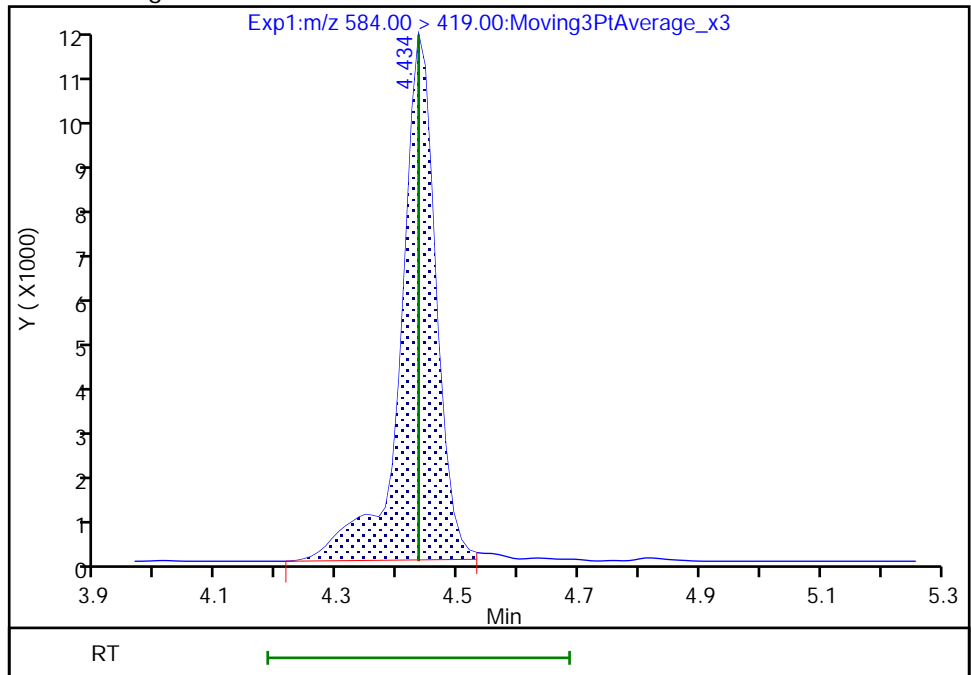
RT: 4.43
Area: 46619
Amount: 1.001106
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 45062
Amount: 0.967304
Amount Units: ng/ml

Manual Integration Results



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: CCV 200-167173/1 Calibration Date: 05/21/2021 22:37
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210521C01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9349	0.8929		0.955	1.00	-4.5	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.011	1.029		1.02	1.00	1.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.030	1.032		0.885	0.884	0.1	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.743	1.611		0.863	0.934	-7.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.012	0.997		0.986	1.00	-1.4	40.0
Perfluoropentanesulfonic acid	AveID	1.218	1.227		0.945	0.938	0.8	50.0
HFPO-DA	AveID	1.655	1.717		1.04	1.00	3.8	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.109	1.092		0.896	0.910	-1.5	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.009	1.040		1.03	1.00	3.1	40.0
DONA	AveID	3.141	3.215		0.964	0.942	2.4	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.8971	0.8666		0.916	0.948	-3.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.242	1.236		0.947	0.952	-0.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.027	1.063		1.03	1.00	3.5	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.077	1.080		0.931	0.928	0.3	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9633	0.9486		0.985	1.00	-1.5	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.036	1.008		0.907	0.932	-2.7	50.0
Perfluorononanesulfonic acid	AveID	0.8018	0.7946		0.951	0.960	-0.9	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.046	1.013		0.968	1.00	-3.2	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.5017	0.4635		0.885	0.958	-7.6	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9783	0.9589		0.980	1.00	-2.0	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8791	0.8357		0.951	1.00	-4.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6311	0.6128		0.936	0.964	-2.9	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9891	0.9397		0.950	1.00	-5.0	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	L1ID		0.8184		0.931	1.00	-6.9	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.9218	0.9290		0.949	0.942	0.8	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.003	1.004		1.00	1.00	0.2	40.0
10:2 FTS	AveID	0.2574	0.2374		0.889	0.964	-7.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2153	0.2113		0.950	0.968	-1.8	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8085	0.7882		0.975	1.00	-2.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2045	0.2014		0.985	1.00	-1.5	40.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: CCV 200-167173/1 Calibration Date: 05/21/2021 22:37
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210521C01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9387		0.973	1.00	-2.7	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8543	0.7988		0.935	1.00	-6.5	50.0
13C4 PFBA	Ave	1.253	1.247		1.24	1.25	-0.5	50.0
13C5 PFPeA	Ave	0.9108	0.8875		1.22	1.25	-2.6	50.0
13C3 PFBS	Ave	1.138	1.069		1.09	1.16	-6.1	50.0
M2-4:2 FTS	Ave	0.0884	0.0830		1.10	1.17	-6.1	50.0
13C2 PFHxA	Ave	0.9887	0.9479		1.20	1.25	-4.1	50.0
13C3 HFPO-DA	Ave	0.1094	0.0975		1.11	1.25	-10.9	50.0
1802 PFHxS	Ave	0.8838	0.8132		1.09	1.18	-8.0	50.0
13C4 PFHpA	Ave	0.9882	0.9453		1.20	1.25	-4.3	50.0
M2-6:2 FTS	Ave	0.1171	0.1164		1.18	1.19	-0.6	50.0
13C4 PFOA	Ave	1.001	0.9726		1.21	1.25	-2.8	50.0
13C4 PFOS	Ave	0.6377	0.5960		1.12	1.20	-6.5	50.0
13C5 PFNA	Ave	0.9222	0.9042		1.23	1.25	-1.9	50.0
13C2 PFDA	Ave	0.8087	0.7960		1.23	1.25	-1.6	50.0
M2-8:2 FTS	Ave	0.1200	0.1226		1.22	1.20	2.1	50.0
13C8 FOSA	Ave	1.141	1.059		1.16	1.25	-7.2	50.0
d3-NMeFOSAA	Ave	0.0547	0.0611		1.40	1.25	11.7	50.0
13C2 PFUnA	Ave	0.6487	0.6587		1.27	1.25	1.5	50.0
d5-NEtFOSAA	Ave	0.0549	0.0597		1.36	1.25	8.7	50.0
13C2 PFDoA	Ave	0.6788	0.6568		1.21	1.25	-3.2	50.0
13C2 PFTeDA	Ave	0.4966	0.4689		1.18	1.25	-5.6	50.0
13C2 PFHxDA	Ave	0.4862	0.4719		1.21	1.25	-2.9	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-May-2021 22:37:00 ALS Bottle#: 28 Worklist Smp#: 1
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0046090-001 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 08:21:15

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	2.100	2.091	0.009	0.597	1596818	1.24	99.5	12210	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.100	2.100	0.0	1.000	1140629	0.9551		95.5	225	M
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1136574	1.22	97.4	3129	
4 Perfluoropentanoic acid	262.90 > 219.00	2.426	2.426	0.0	1.000	935303	1.02	102	124	
D 47 13C3 PFBS	301.90 > 80.00	2.439	2.439	0.0	0.693	1273420	1.09	93.9	480227	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.452	2.439	0.013	1.005	998955	0.8851	Target=2.19	100	2473	M
298.90 > 99.00	2.452	2.439	0.013	1.005	438273		2.28(1.09-3.28)		354	
D 60 M2-4:2 FTS	329.00 > 81.00	2.746	2.746	0.0	0.780	99263	1.10	93.9	142	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.746	2.746	0.0	1.000	127957	0.8635		92.4	1278	M
D 7 13C2 PFHxA	315.00 > 270.00	2.782	2.782	0.0	0.791	1213866	1.20	95.9	5641	M
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.782	2.782	0.0	1.000	968637	0.9855	Target=12.12	98.6	283	
313.00 > 119.00	2.782	2.782	0.0	1.000	77615		12.48(6.06-18.18)		137	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.795	2.795	0.001	0.886	958592	0.9450	Target=3.58	101	2498
349.00 > 99.00	2.795	2.795	0.001	0.886	265270		3.61(1.79-5.37)		466	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.902	2.892	0.010	1.000	171438	1.04		104	77.1	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	0.825	124818	1.11		89.1	1302	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.154	0.0	0.896	985139	1.09		92.0	2006	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.154	0.0	1.000	827492	0.8960	Target=4.23	98.5	1079	M
399.00 > 99.00	3.154	3.154	0.0	1.000	191386		4.32(2.12-6.35)		219	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.154	0.010	0.899	1210570	1.20		95.7	1301	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.164	3.164	0.0	1.000	1006734	1.03	Target=3.49	103	543	
363.00 > 169.00	3.164	3.164	0.0	1.000	276749		3.64(1.75-5.24)		582	
77 DONA										
377.00 > 251.00	3.196	3.196	0.0	0.833	1849282	0.9641	Target=2.43	102	2125	M
377.00 > 85.00	3.196	3.196	0.0	0.833	782170		2.36(1.21-3.64)		1180	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.510	3.510	0.0	0.915	718405	0.9471	Target=6.21	99.5	2128	
449.00 > 99.00	3.510	3.510	0.0	0.915	112088		6.41(3.10-9.31)		411	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	141624	1.18		99.4	597	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	97979	0.9158		96.6	869	
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1245524	1.21		97.2	2716	
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1280628	1.25			180	M
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	1059181	1.03	Target=2.53	103	458	
413.00 > 169.00	3.519	3.519	0.0	1.000	416263		2.54(1.27-3.80)		823	
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	729701	1.12		93.5	2644	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	611897	0.9308	Target=6.09	100	346	M
499.00 > 99.00	3.836	3.836	0.0	1.000	97475		6.28(3.04-9.13)		181	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	878816	0.9848	Target=6.34	98.5	392	
463.00 > 169.00	3.859	3.858	0.001	1.000	127585		6.89(3.17-9.51)		1107	
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.097	1158004	1.23		98.1	2651	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	4.002	4.002	0.0	1.043	573817	0.9072		97.3	1275	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	465775	0.9513	Target=2.95	99.1	2700	M
549.00 > 99.00	4.126	4.126	0.0	1.076	147738		3.15(1.47-4.42)		502	M
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.160	0.0	1.182	1019347	1.23		98.4	3190	

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	4.160	0.0	1.000	826232	0.9682	Target=7.79	96.8	747	
513.00 > 169.00	4.160	4.160	0.0	1.000	112853		7.32(3.90-11.69)		855	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.171	4.171	0.0	1.185	150403	1.22		102	926	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.171	4.171	0.0	1.000	55764	0.8849		92.4	593	
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.225	0.0	1.201	1356376	1.16		92.8	2936	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.225	0.0	1.000	1040546	0.9802		98.0	2406	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.302	4.302	0.0	1.223	78226	1.40		112	274	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.000	52296	0.9506		95.1	251	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.391	0.0	1.145	360694	0.9360	Target=2.87	97.1	1981	
599.00 > 99.00	4.391	4.391	0.0	1.145	129820		2.78(1.44-4.31)		930	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.424	0.0	1.000	634125	0.9500	Target=7.94	95.0	1014	
563.00 > 169.00	4.424	4.424	0.0	1.000	80710		7.86(3.97-11.91)		806	
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.424	0.0	1.257	843529	1.27		102	3323	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.434	4.434	0.0	1.260	76444	1.36		109	653	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.434	4.434	0.0	1.000	50052	0.9309		93.1	310	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.518	4.518	0.0	1.178	534388	0.9494		101	2386	
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.653	0.0	1.322	841170	1.21		96.8	3082	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.000	675751	1.00	Target=5.94	100	377	
613.00 > 169.00	4.653	4.653	0.0	1.000	117792		5.74(2.97-8.92)		1159	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.673	4.673	0.0	1.120	28743	0.8891		92.2	943	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.834	4.834	0.0	1.260	124916	0.9501	Target=0.44	98.2	1506	
699.00 > 99.00	4.822	4.834	-0.012	1.257	264057		0.47(0.22-0.66)		1733	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.867	4.867	0.0	1.046	530431	0.9749	Target=3.97	97.5	292	
663.00 > 169.00	4.867	4.867	0.0	1.046	138209		3.84(1.99-5.96)		1267	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.063	5.063	0.0	1.439	600469	1.18		94.4	4266	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.063	5.063	0.0	1.000	96744	0.9848	Target=1.01	98.5	1456	M
713.00 > 219.00	5.053	5.063	-0.010	0.998	97623		0.99(0.51-1.52)		1940	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	5.405	5.416	-0.011	1.536	604355	1.21		97.1	2444	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.416	5.416	0.0	1.002	453823	0.9726	Target=3.56	97.3	377	
813.00 > 169.00	5.416	5.416	0.0	1.002	135093		3.36(1.78-5.34)		1513	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.747	5.756	-0.009	1.063	386230	0.9351	Target=3.39	93.5	361	M
913.00 > 169.00	5.747	5.756	-0.009	1.063	118965		3.25(1.70-5.09)		770	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00024

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d

Injection Date: 21-May-2021 22:37:00

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 28

Worklist Smp#: 1

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

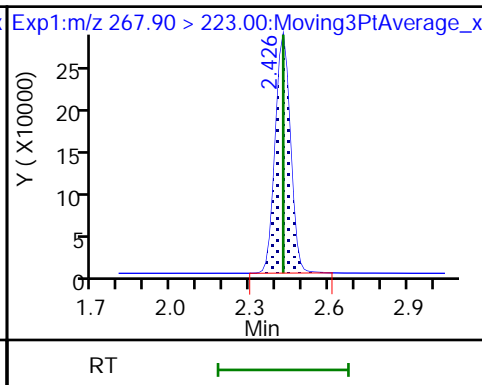
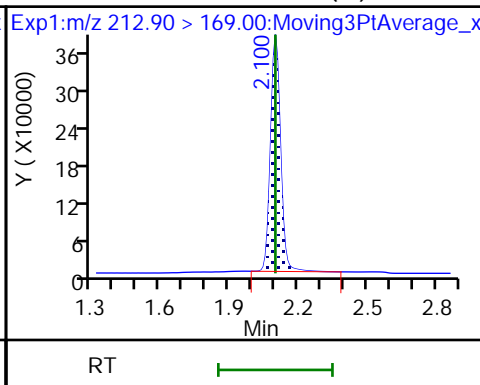
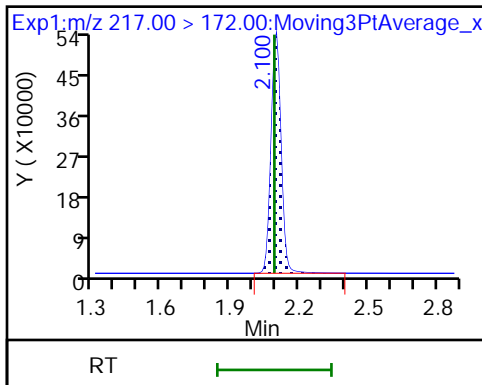
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

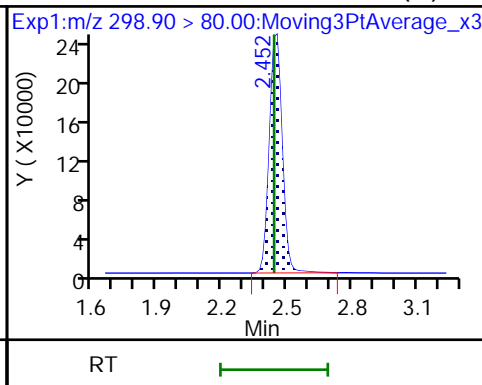
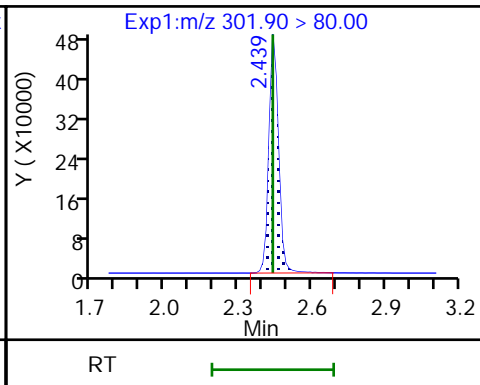
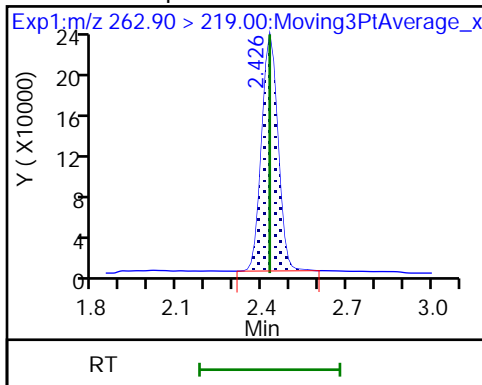
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

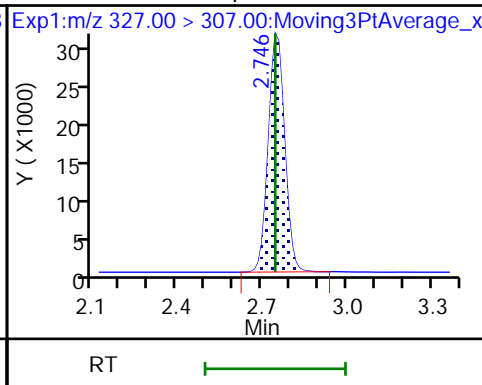
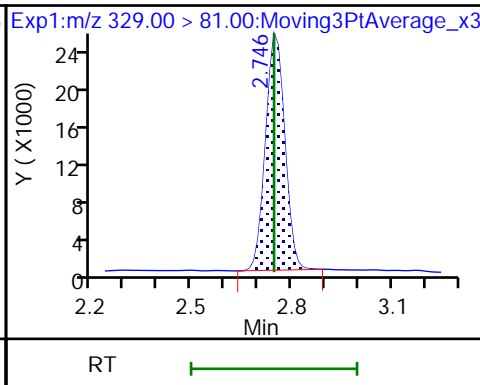
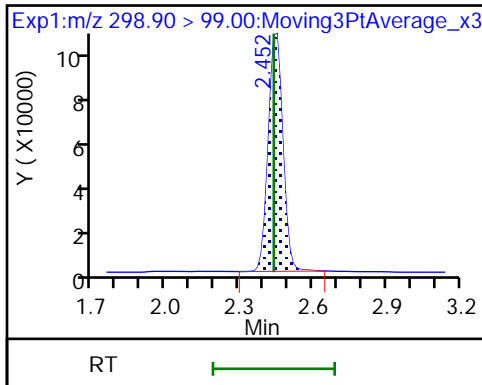
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

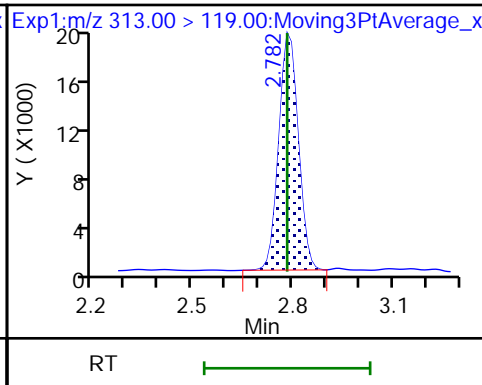
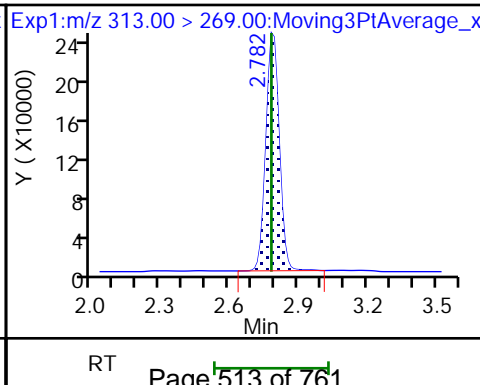
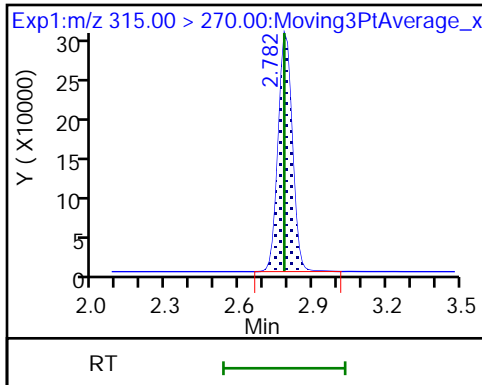
61 1H,1H,2H,2H-perfluorohexanesulfo (M)

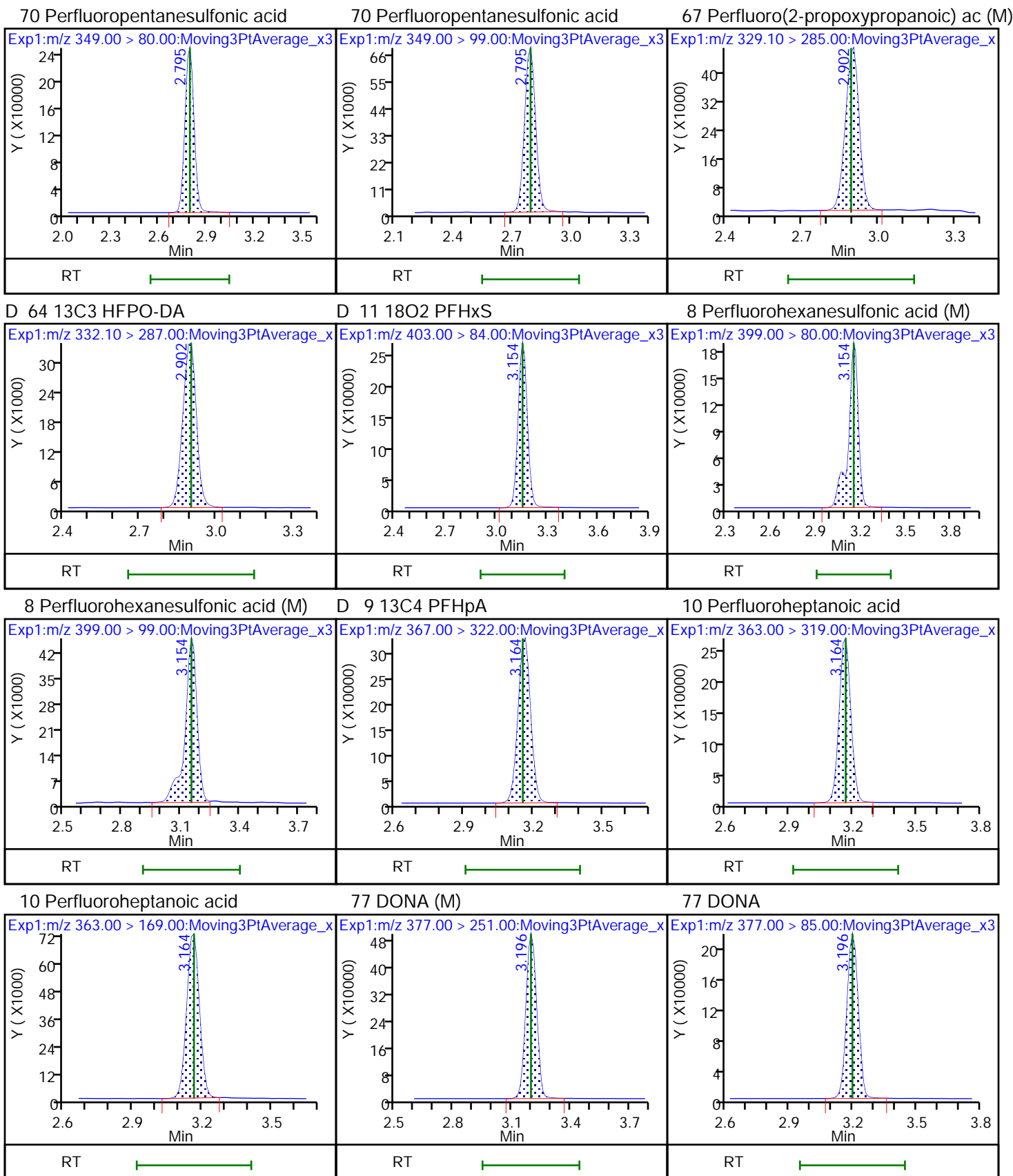


D 7 13C2 PFHxA (M)

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

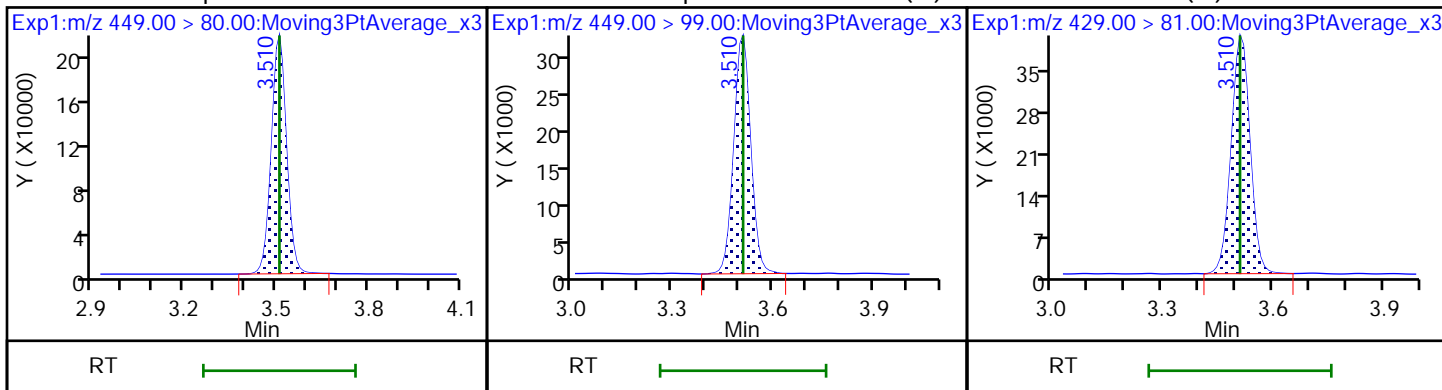




16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid (M)

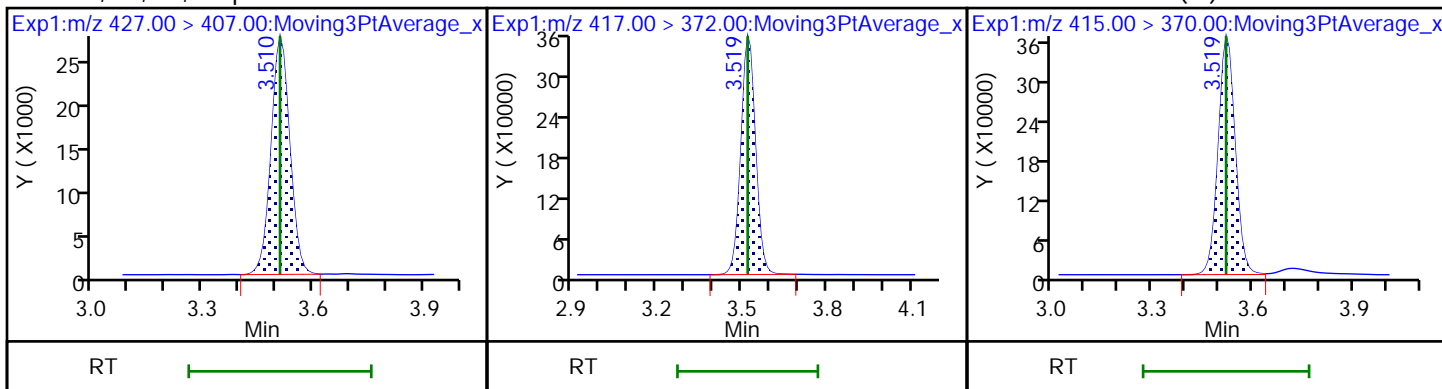
D 12 M2-6:2 FTS (M)



13 1H,1H,2H,2H-perfluorooctanesulfo

D 14 13C4 PFOA

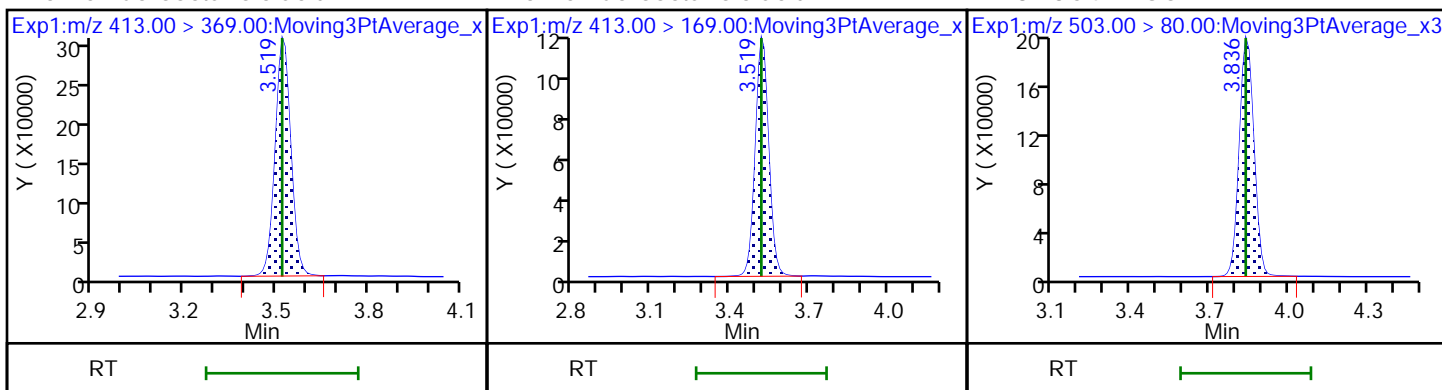
* 62 13C2 PFOA (M)



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

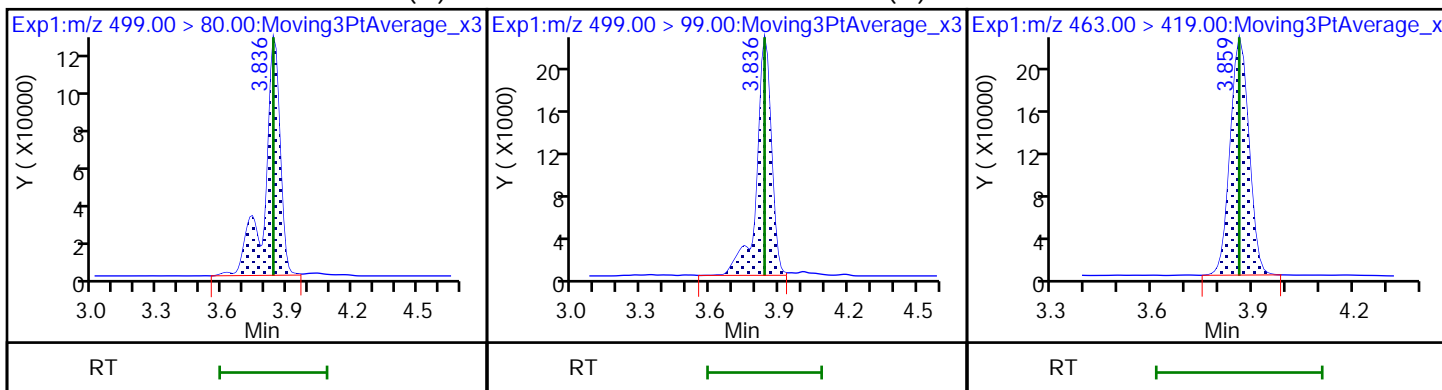
D 18 13C4 PFOS

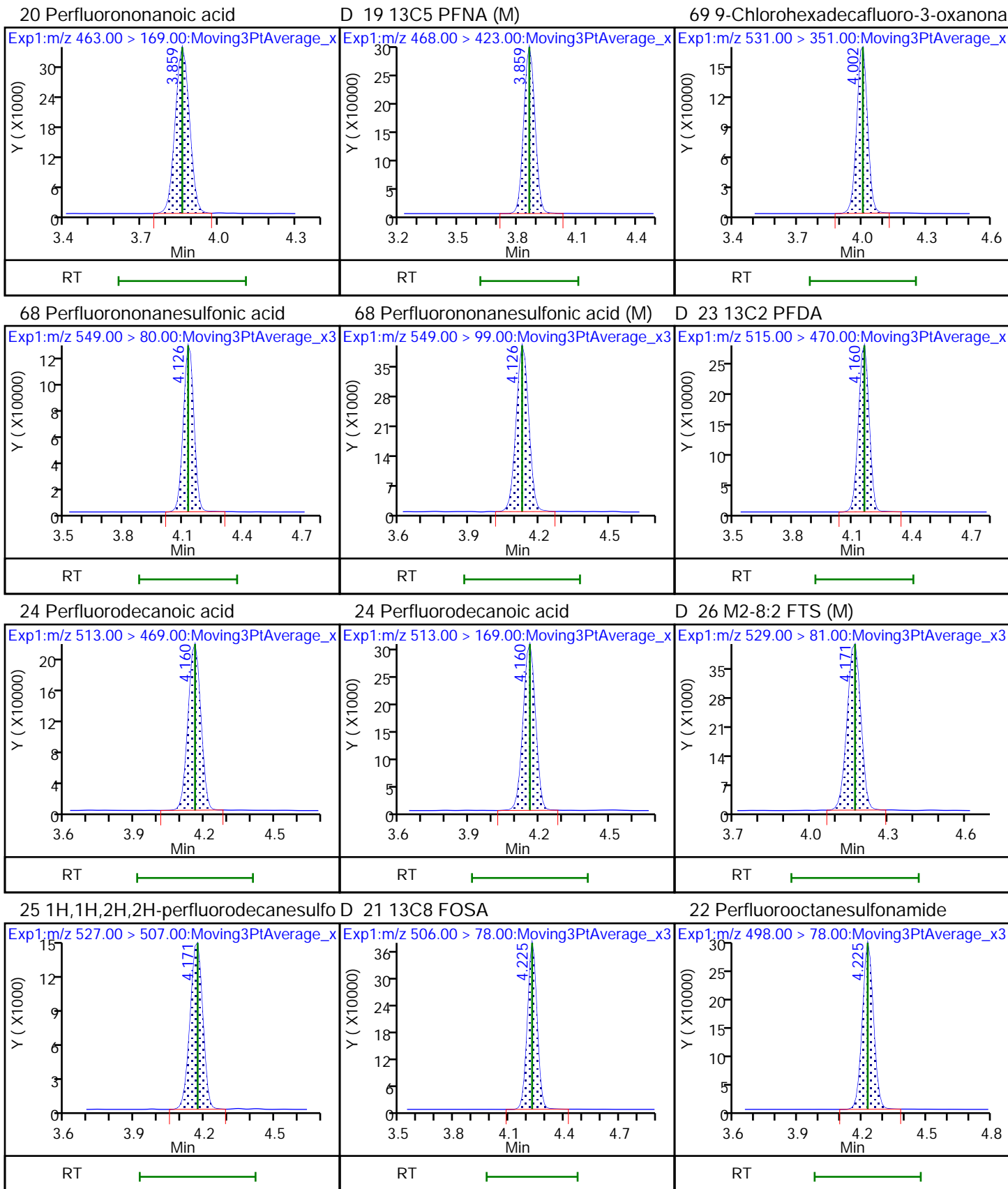


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

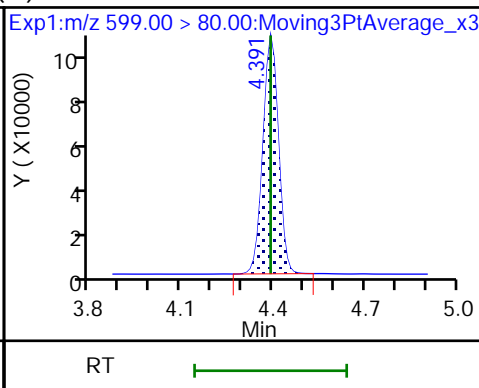
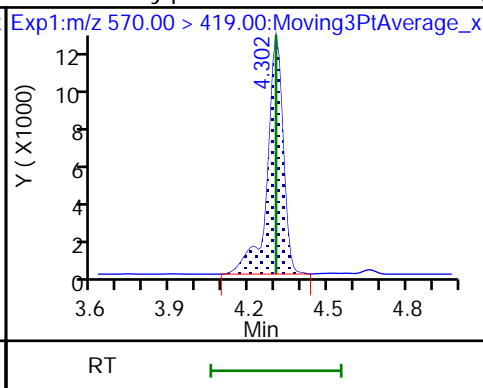
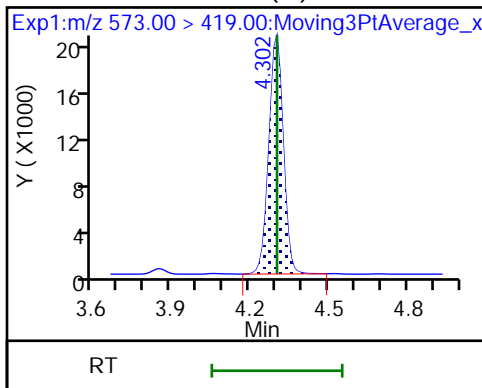




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

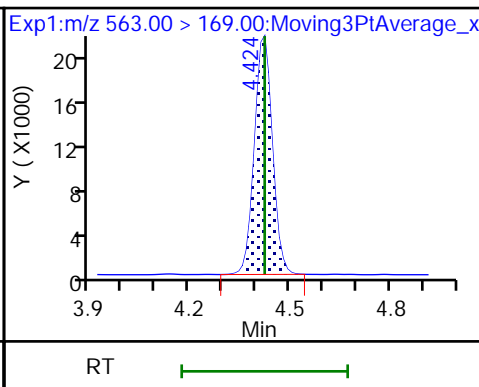
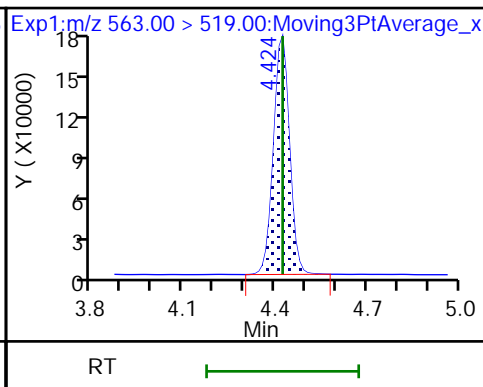
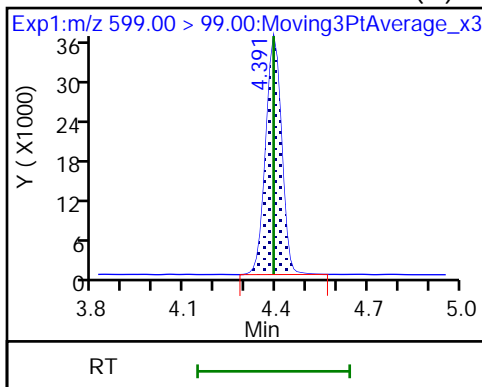
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

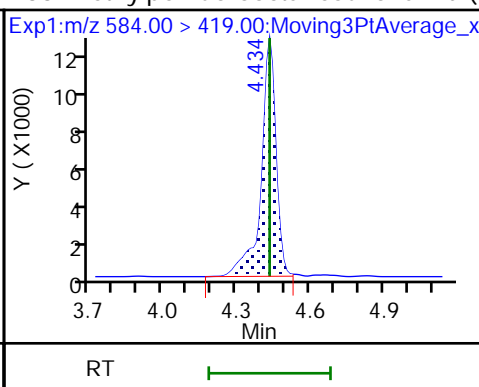
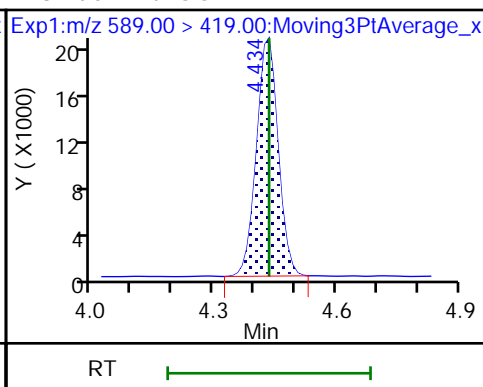
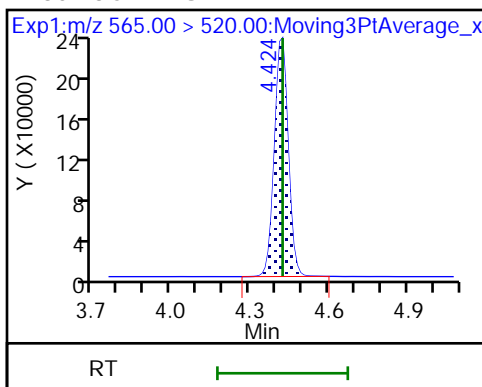
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

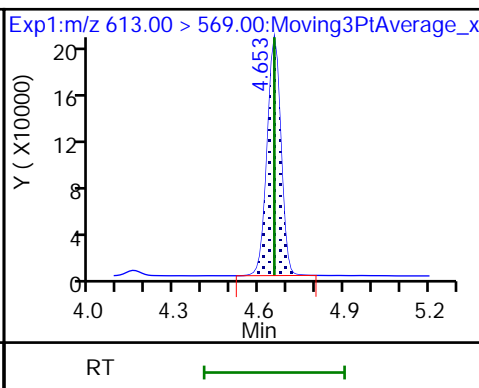
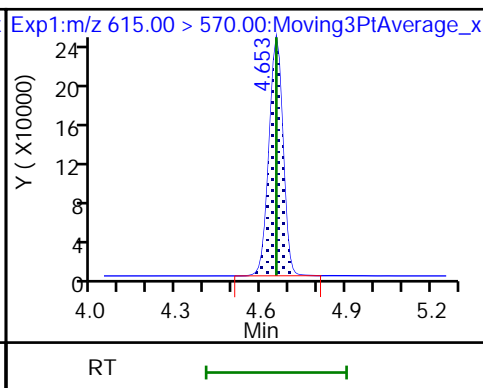
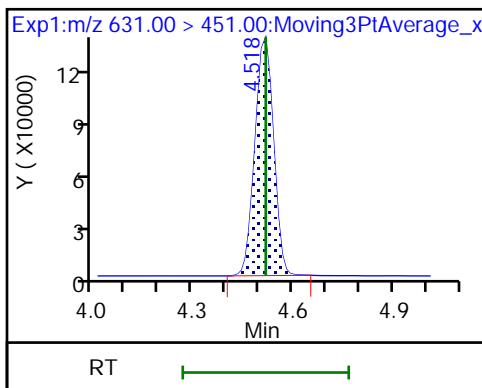
33 N-ethylperfluorooctanesulfonamid (M)

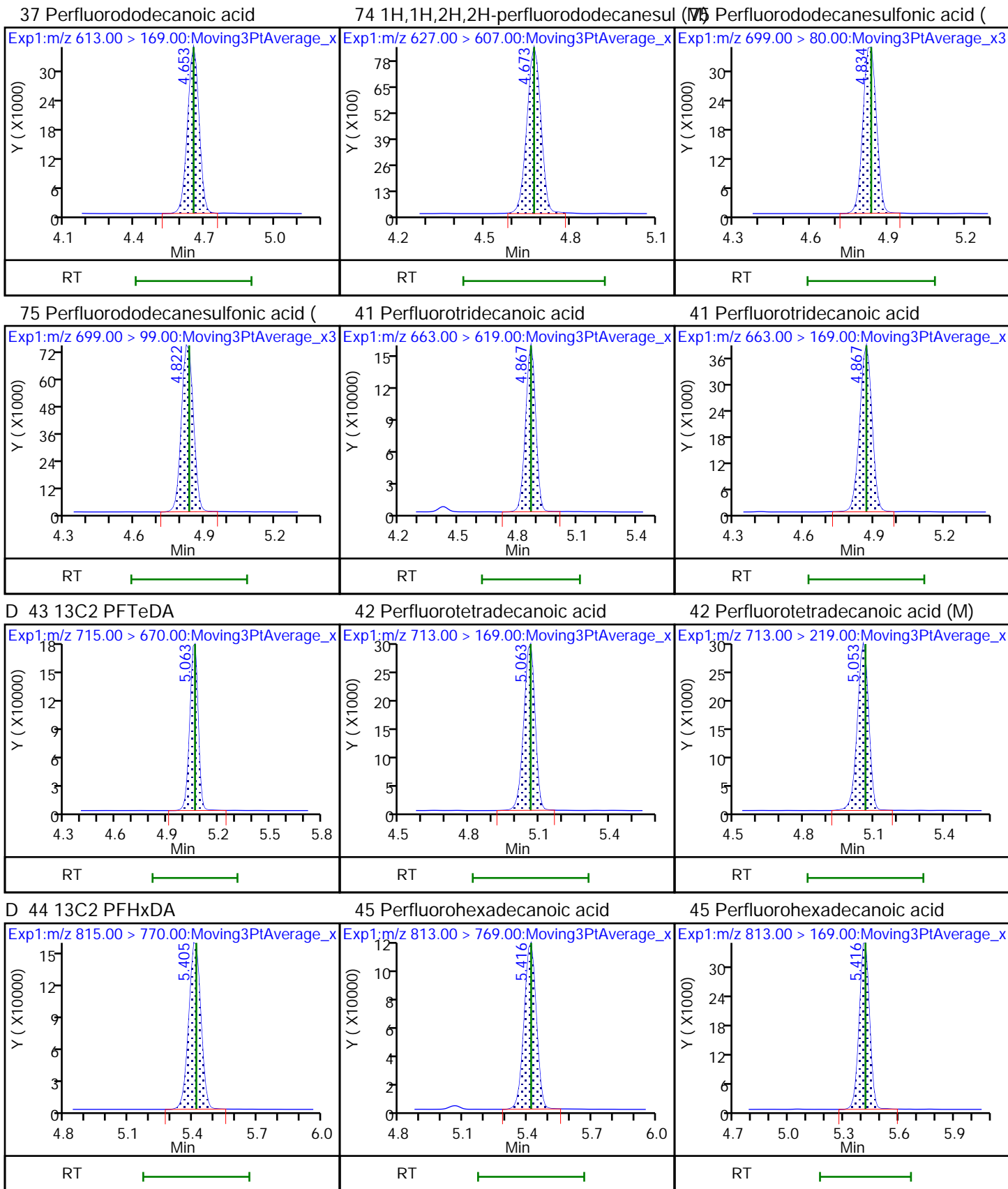


66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

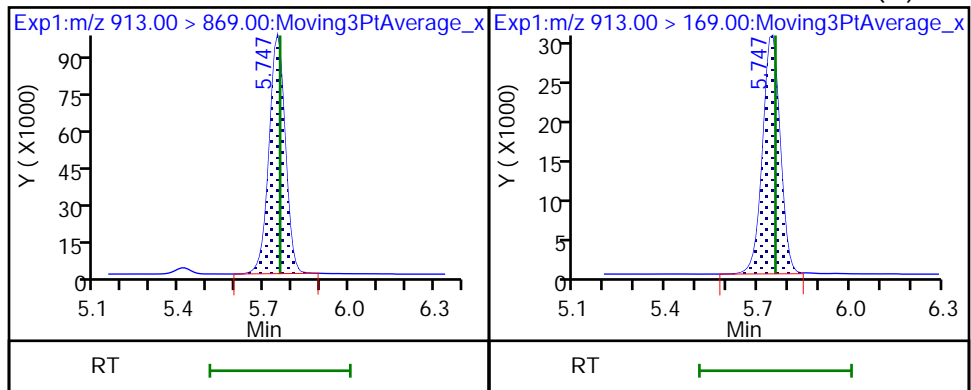
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

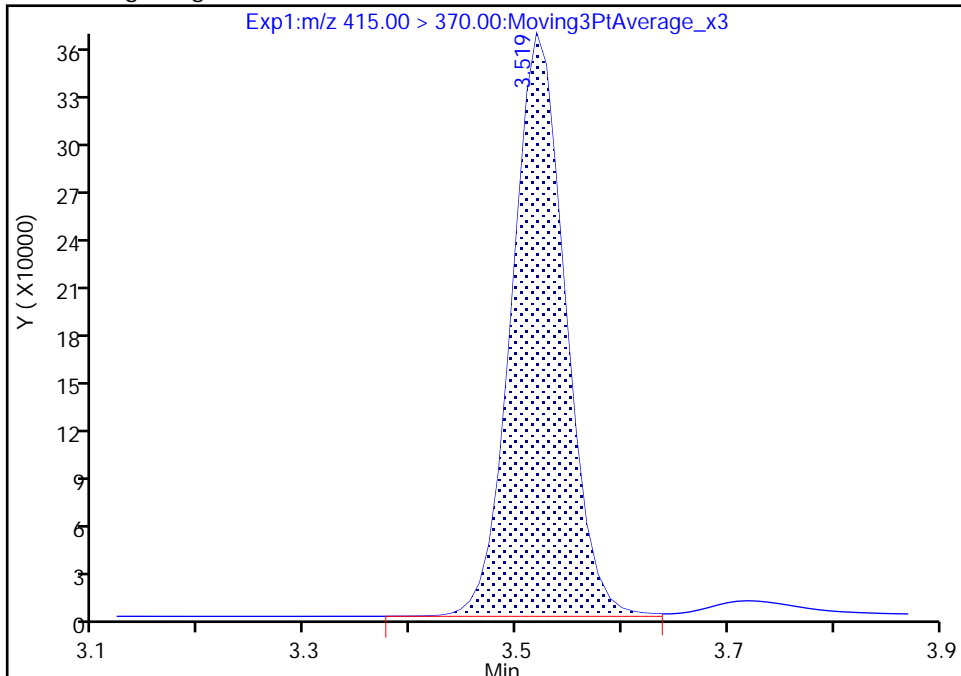
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Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

* 62 13C2 PFOA, CAS: STL00623

Signal: 1

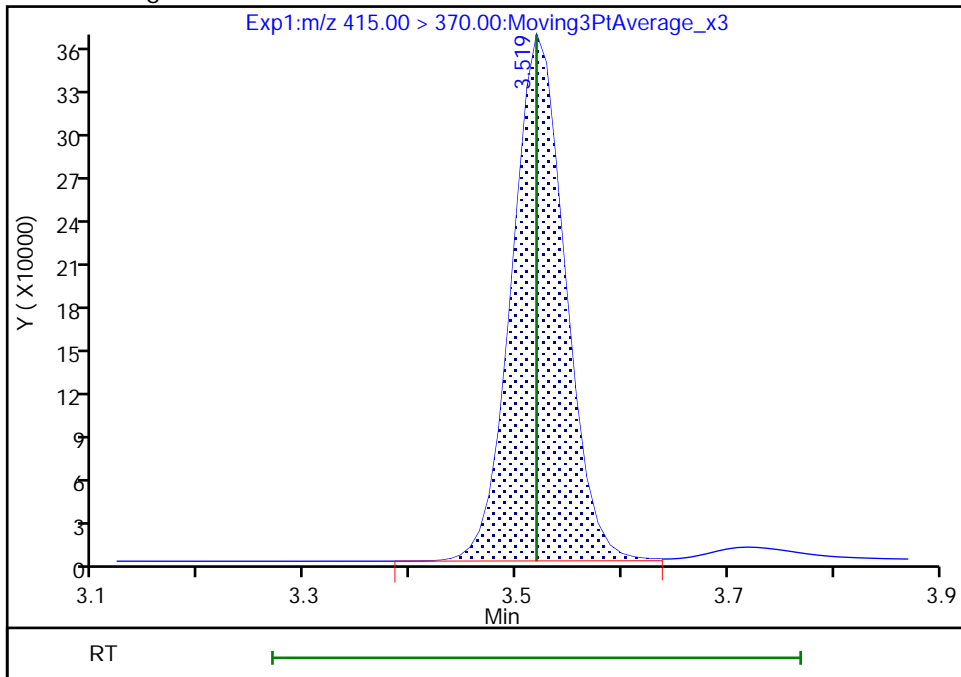
RT: 3.52
Area: 1283428
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1280628
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 11:41:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

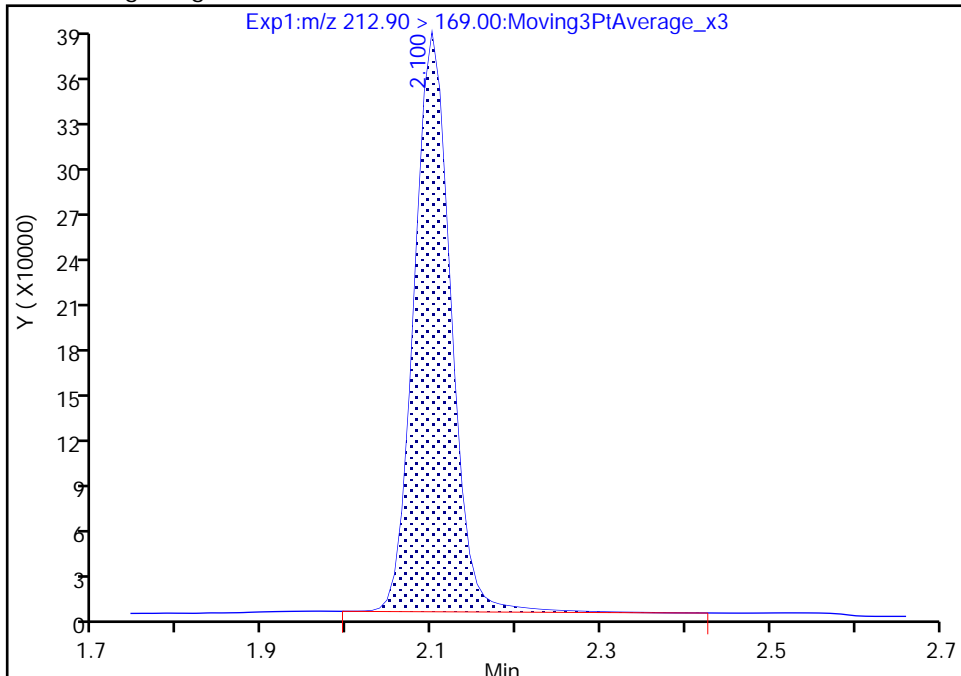
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

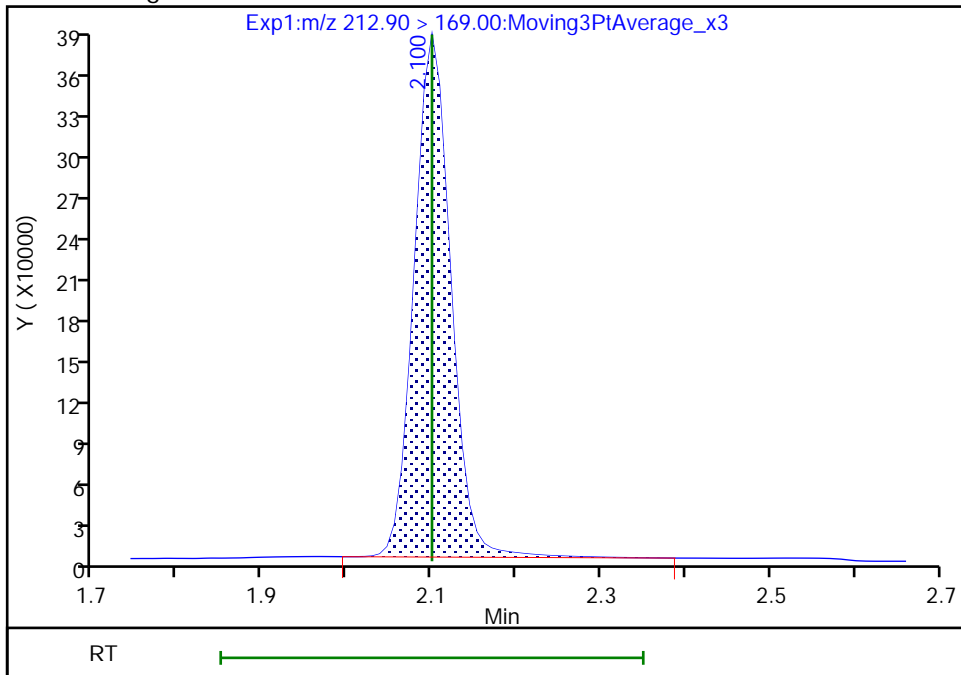
RT: 2.10
Area: 1140905
Amount: 0.955300
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 1140629
Amount: 0.955069
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:15:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

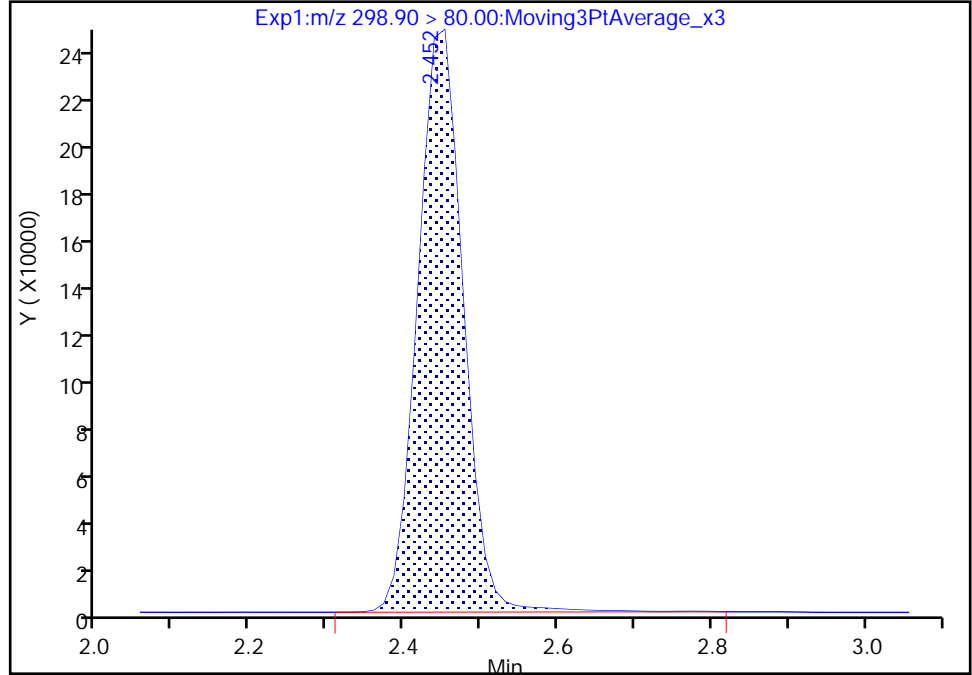
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Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

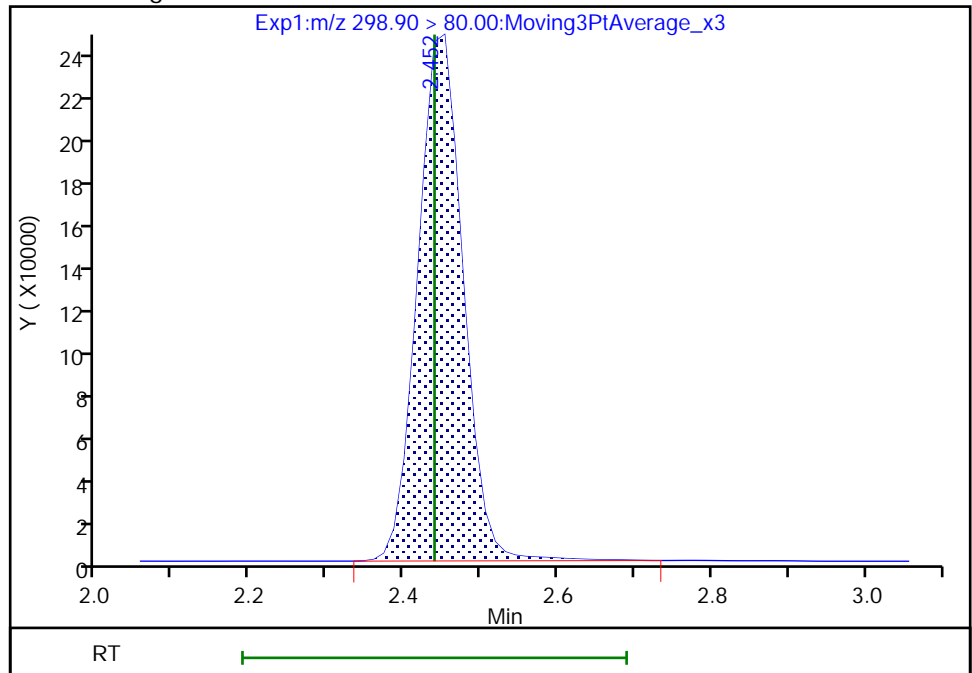
RT: 2.45
Area: 1000832
Amount: 0.886772
Amount Units: ng/ml

Processing Integration Results



RT: 2.45
Area: 998955
Amount: 0.885109
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:15:44
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

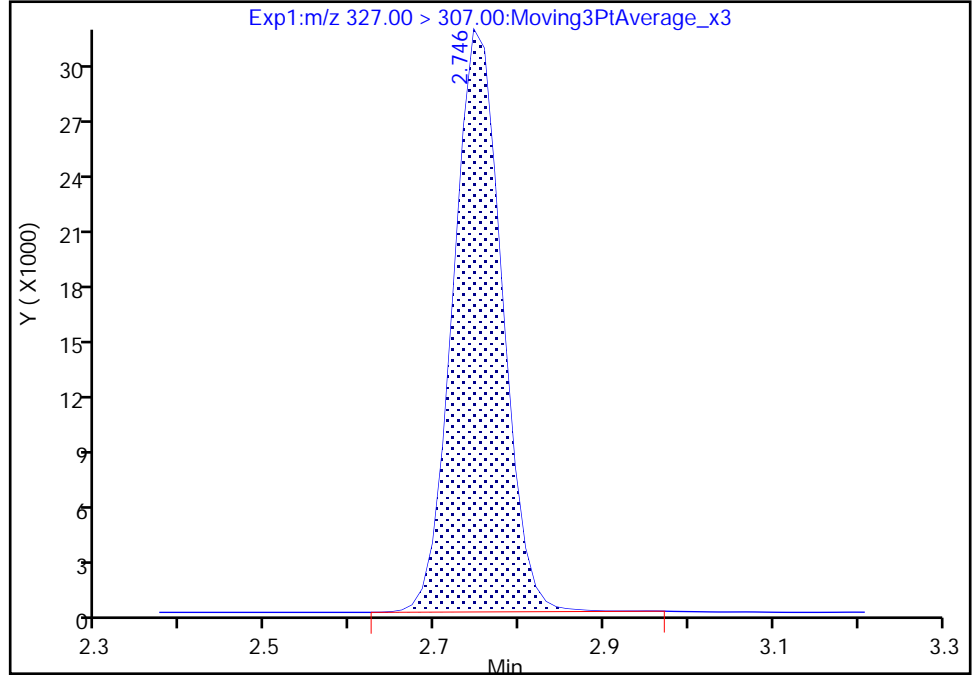
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Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

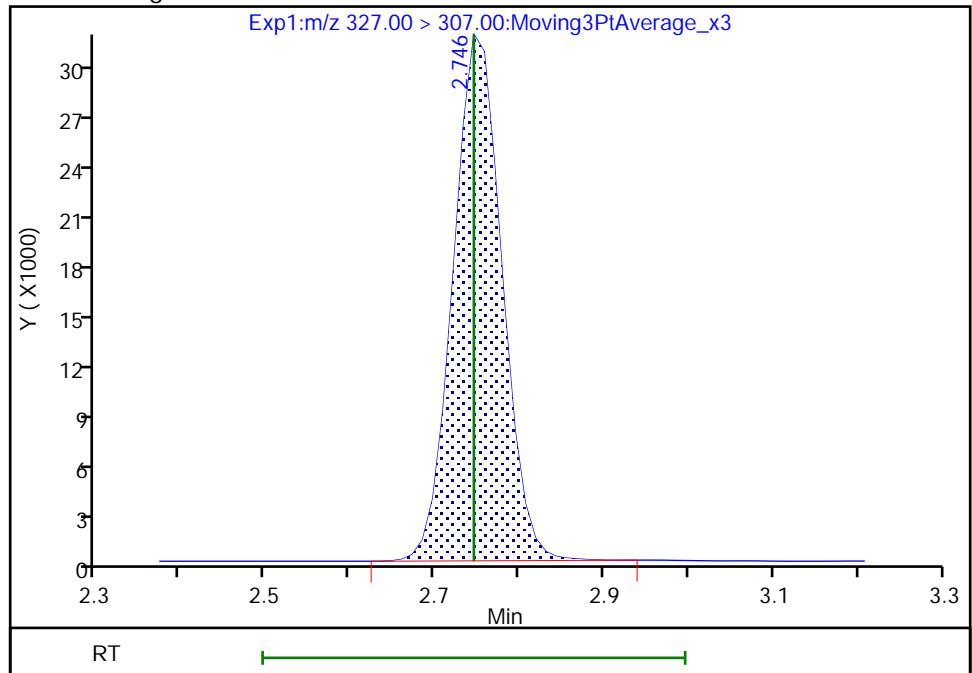
RT: 2.75
Area: 128036
Amount: 0.863986
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 127957
Amount: 0.863453
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:15:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

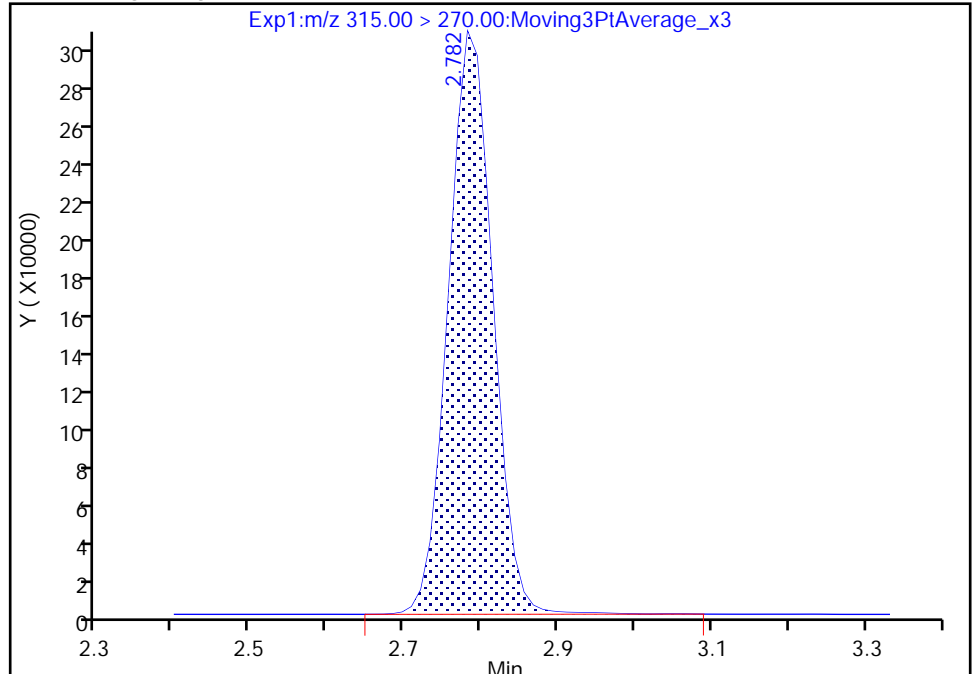
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection 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

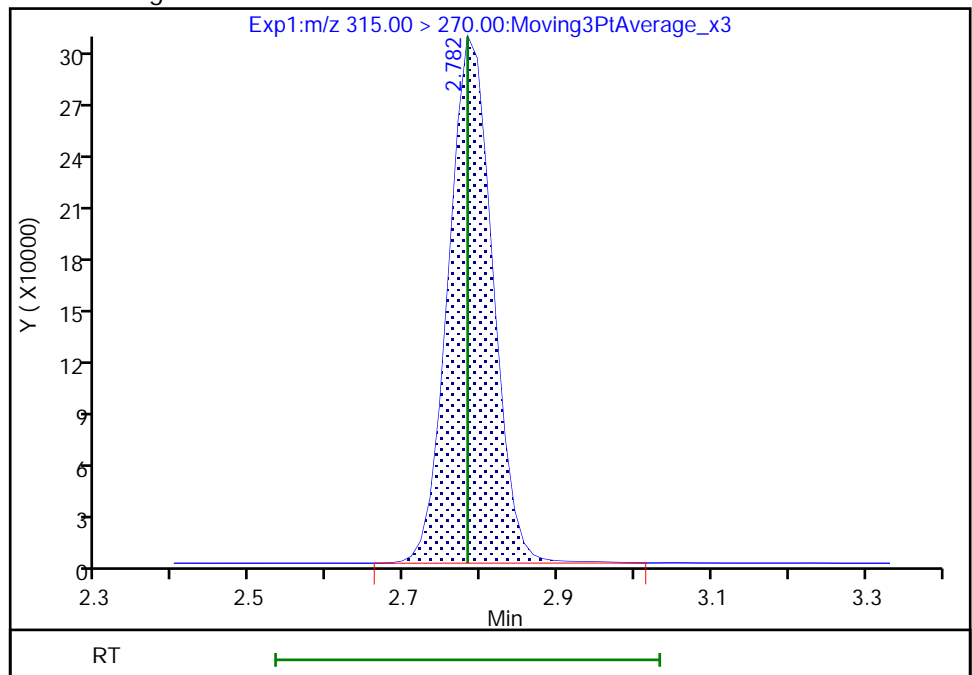
RT: 2.78
Area: 1214552
Amount: 1.196406
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 1213866
Amount: 1.198345
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:13:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

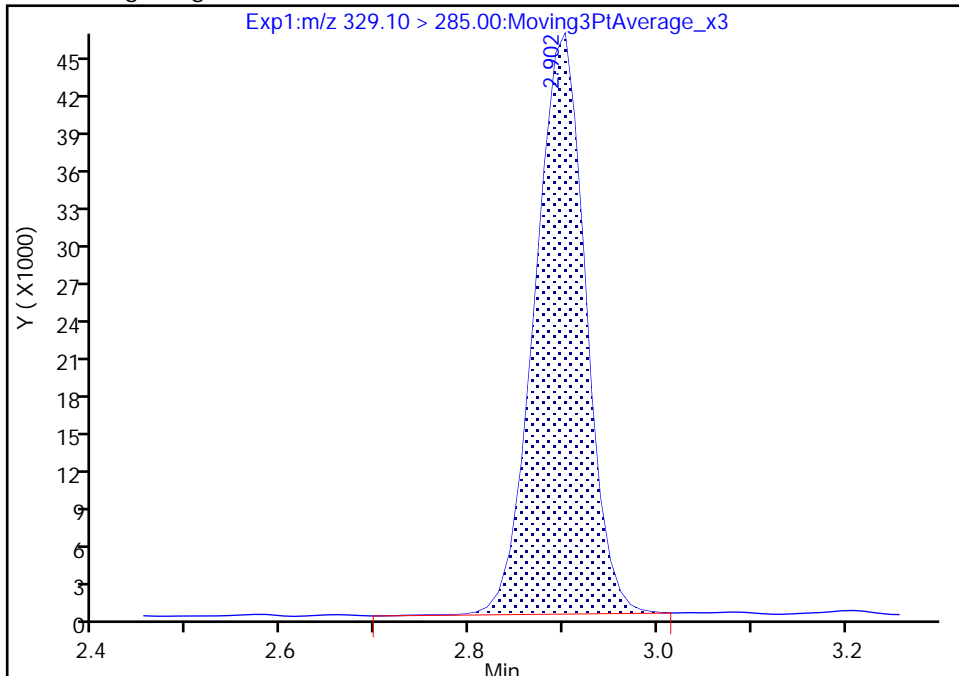
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

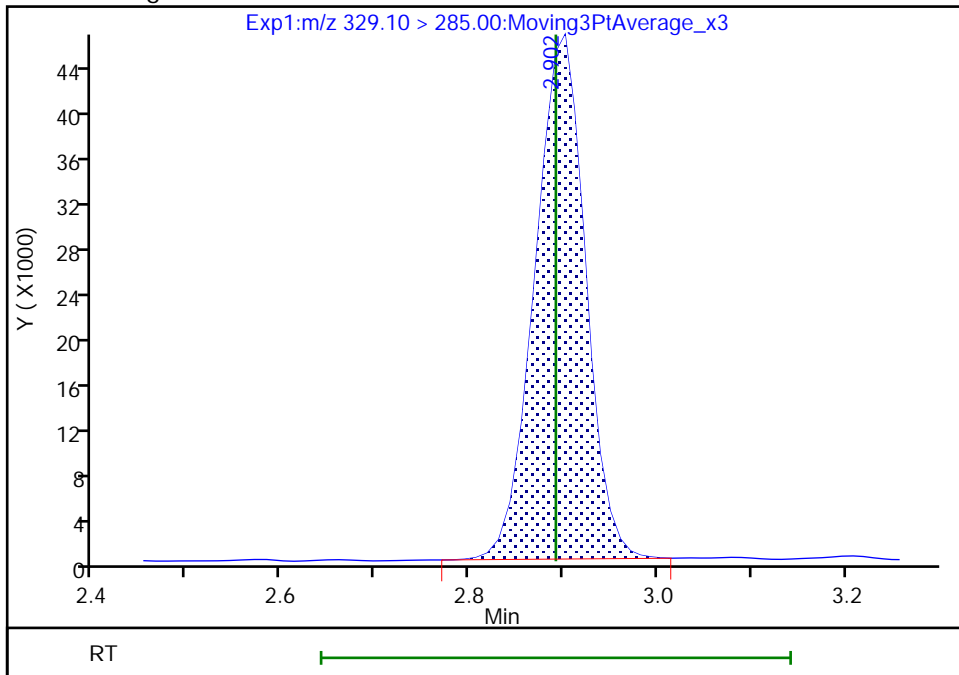
RT: 2.90
Area: 171732
Amount: 1.039390
Amount Units: ng/ml

Processing Integration Results



RT: 2.90
Area: 171438
Amount: 1.037610
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:16:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

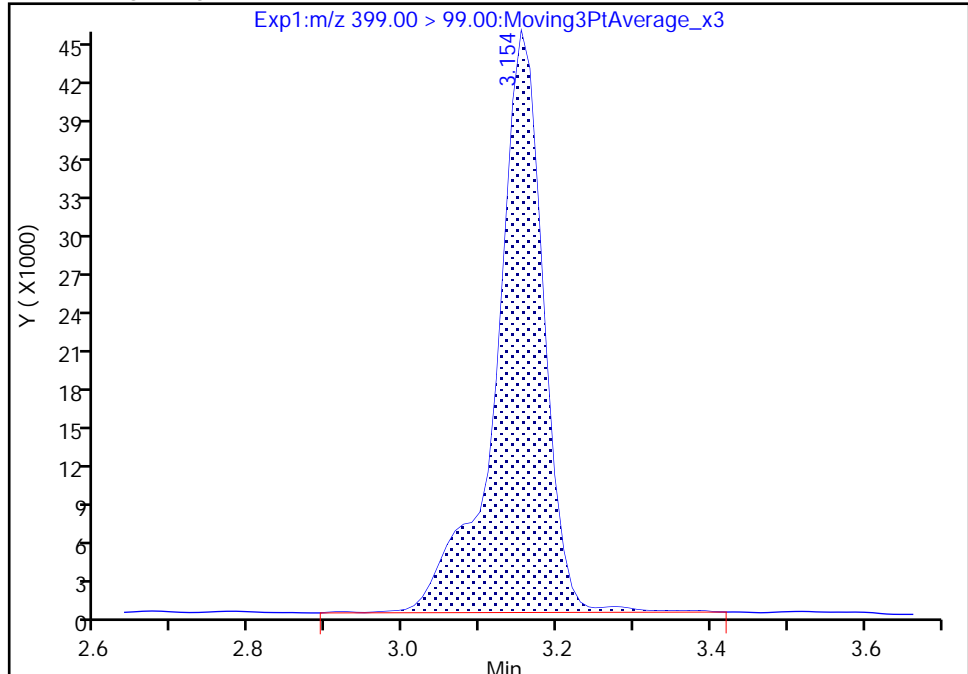
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

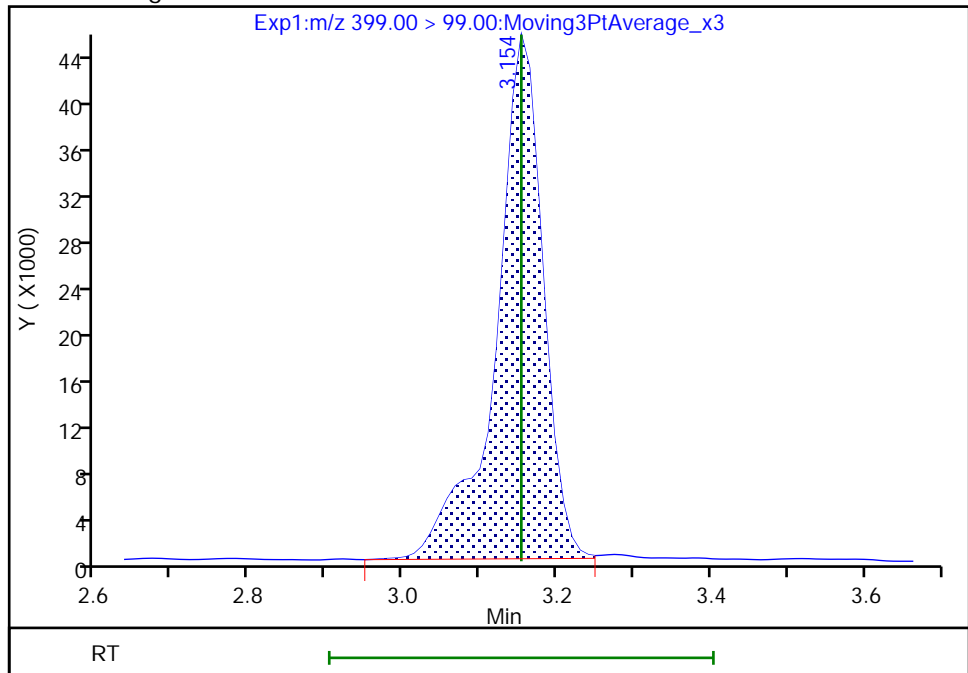
RT: 3.15
Area: 194338
Amount: 0.896156
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 191386
Amount: 0.895985
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:16:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 526 of 761

Eurofins TestAmerica, Burlington

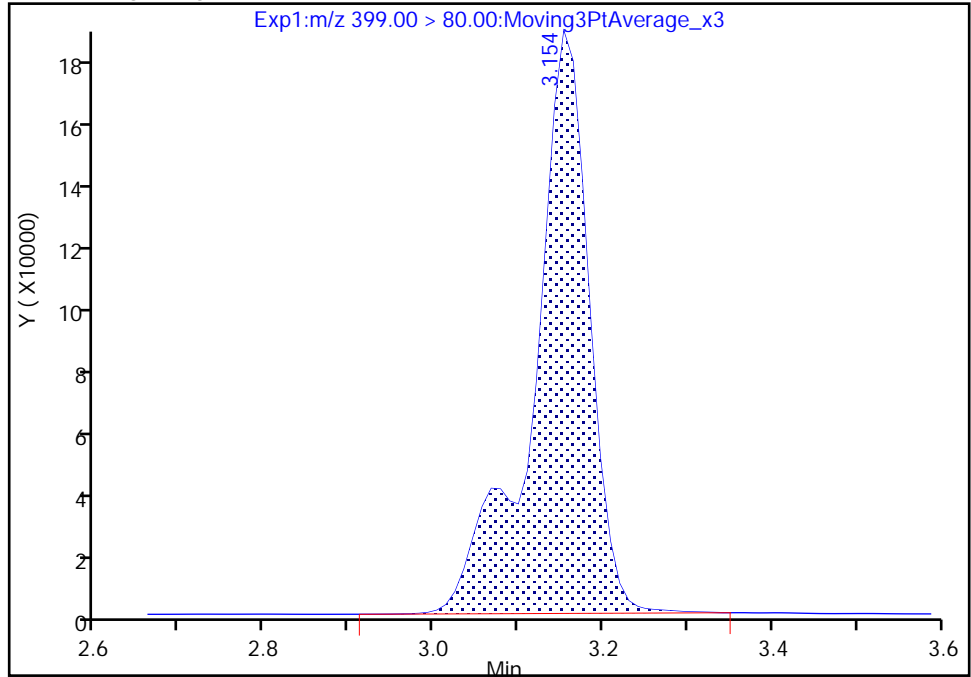
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Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

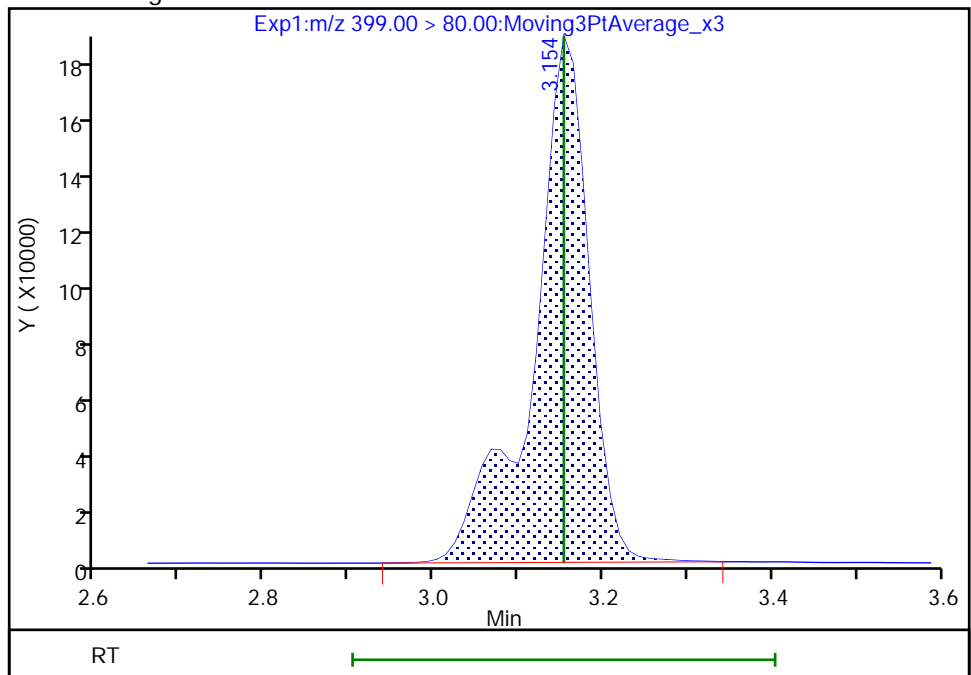
RT: 3.15
Area: 827650
Amount: 0.896156
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 827492
Amount: 0.895985
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:17:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

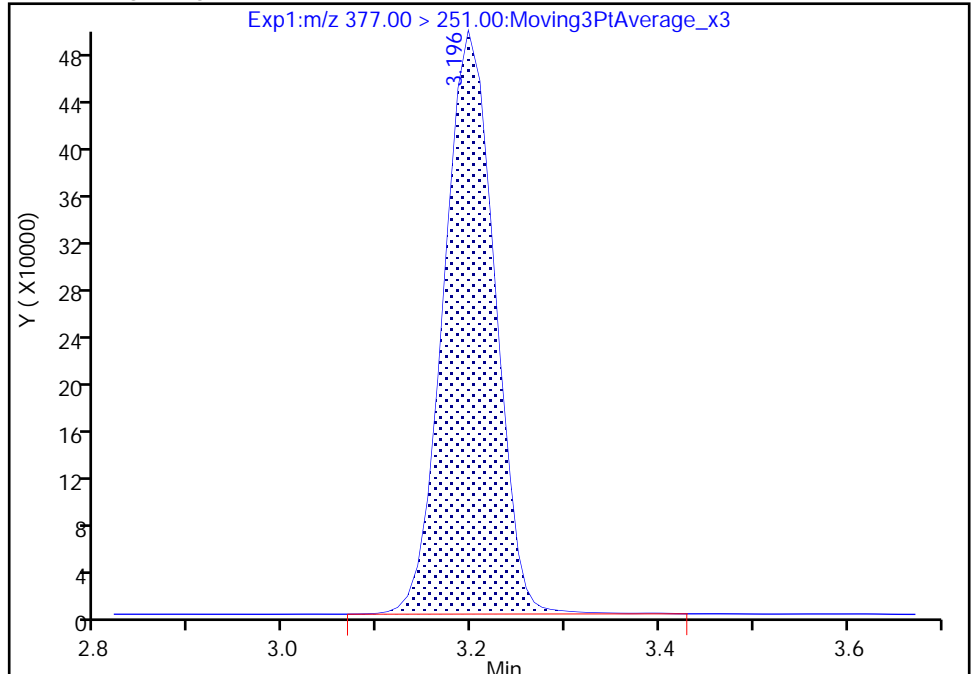
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

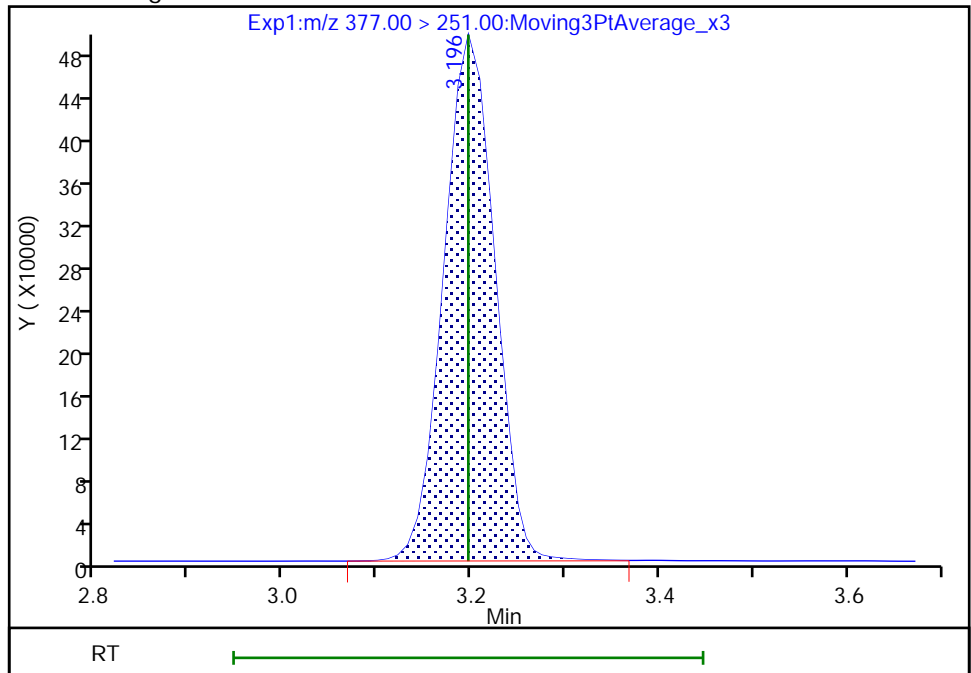
RT: 3.20
Area: 1850290
Amount: 0.964674
Amount Units: ng/ml

Processing Integration Results



RT: 3.20
Area: 1849282
Amount: 0.964148
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:18:09
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

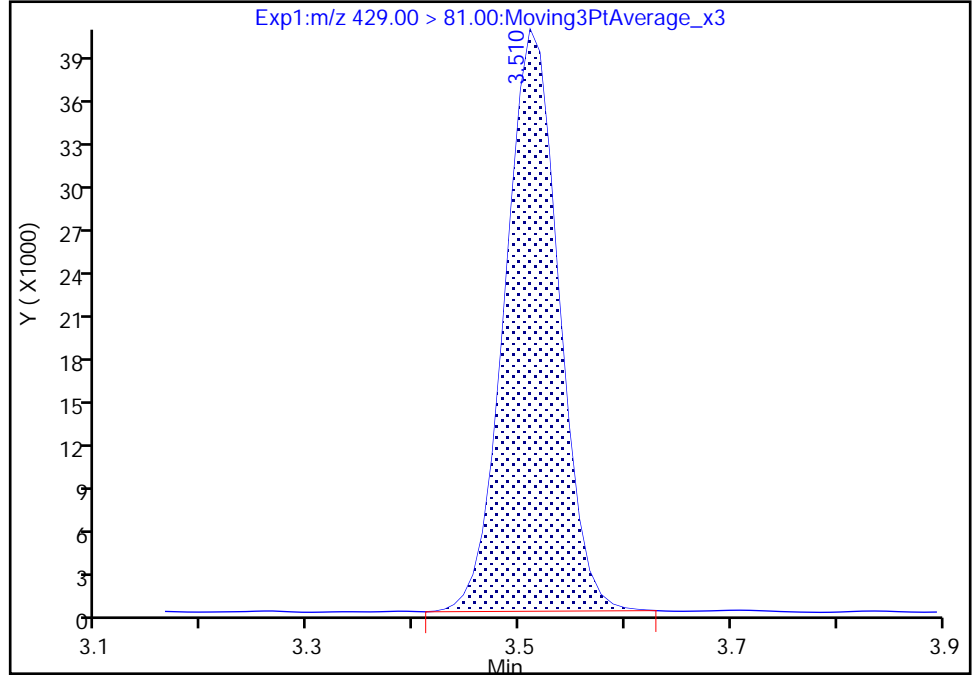
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection 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

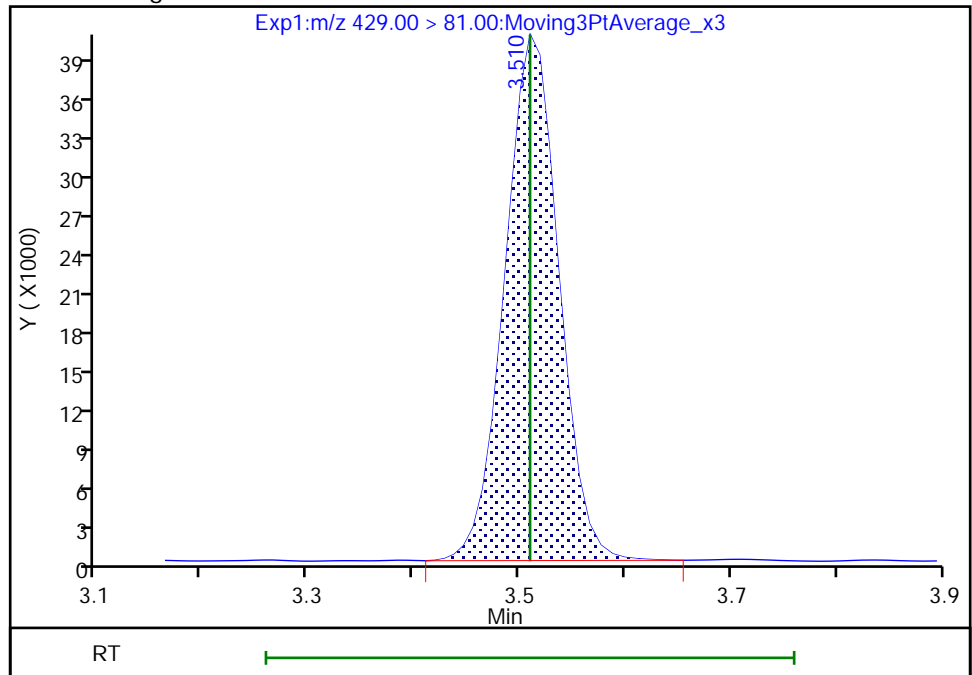
RT: 3.51
Area: 141265
Amount: 1.175368
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 141624
Amount: 1.180931
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:13:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 529 of 761

Eurofins TestAmerica, Burlington

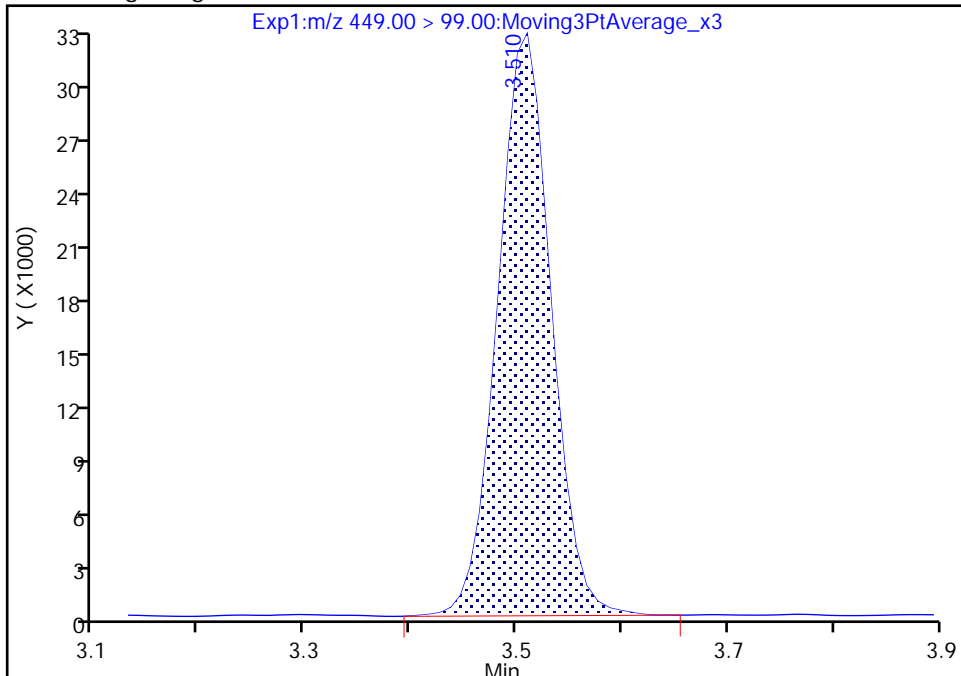
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

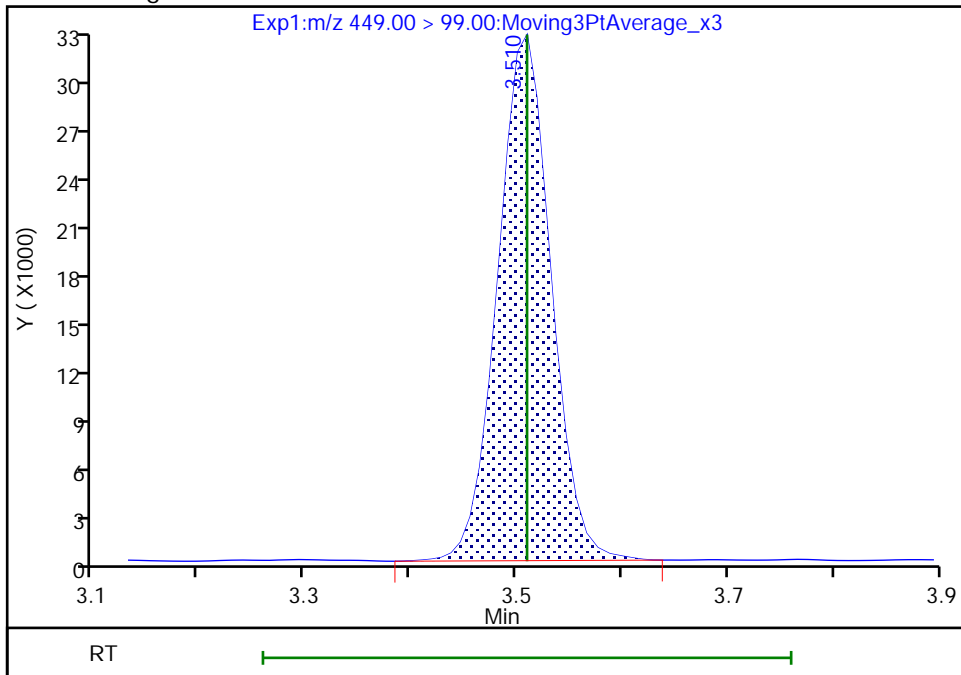
RT: 3.51
Area: 112141
Amount: 0.947081
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 112088
Amount: 0.947081
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:18:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

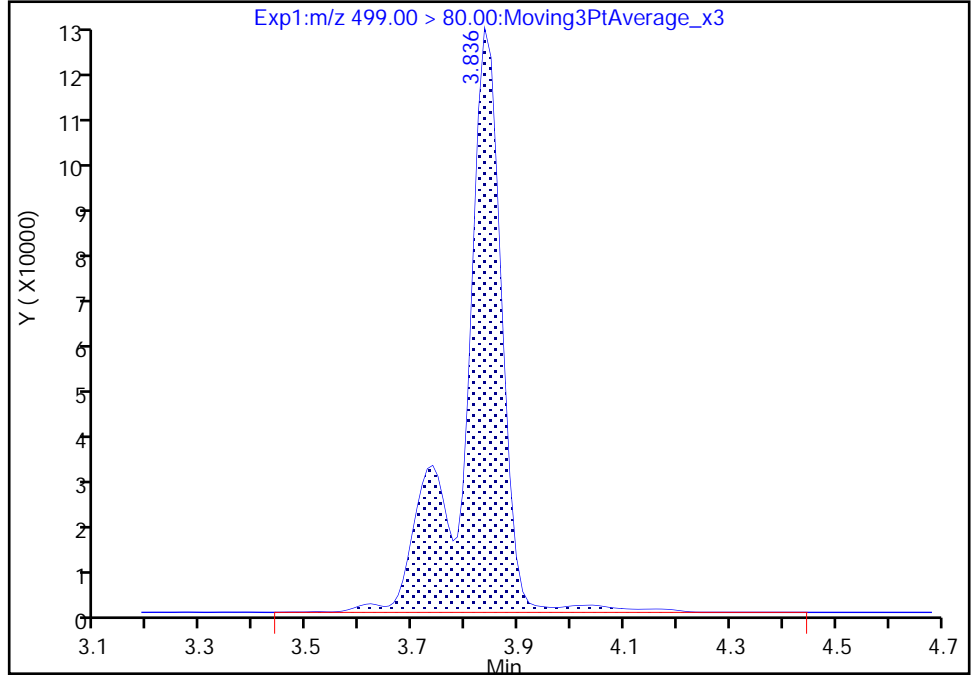
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

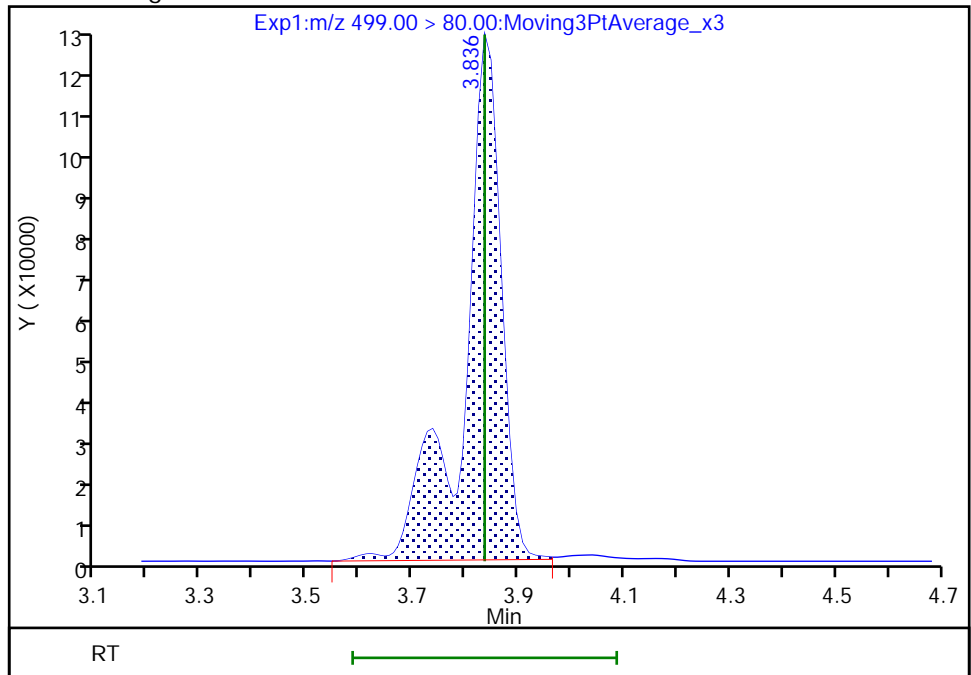
RT: 3.84
Area: 631740
Amount: 0.960938
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 611897
Amount: 0.930755
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

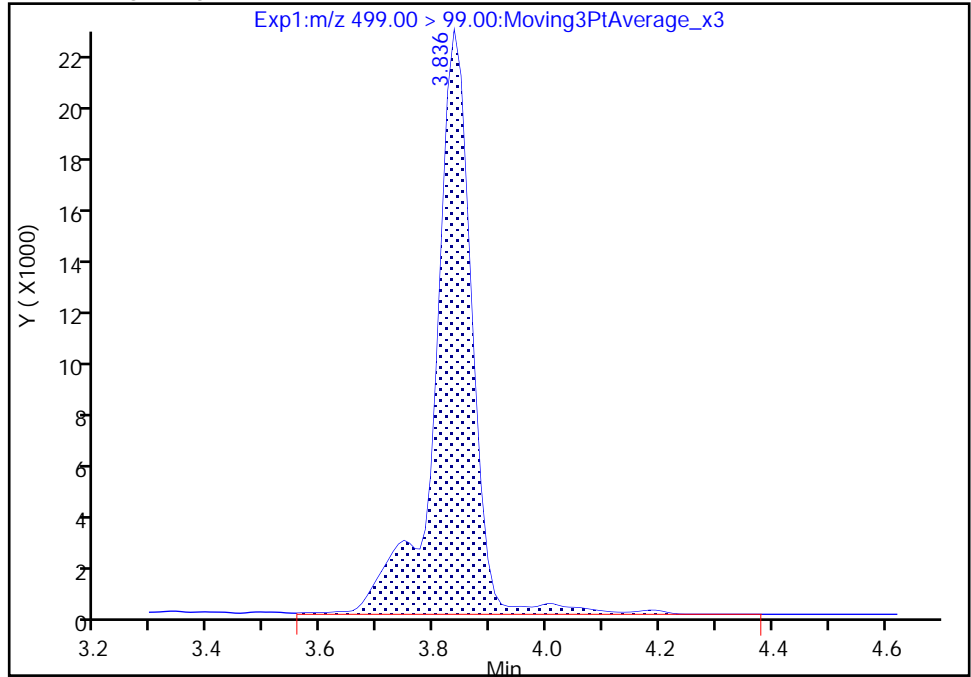
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

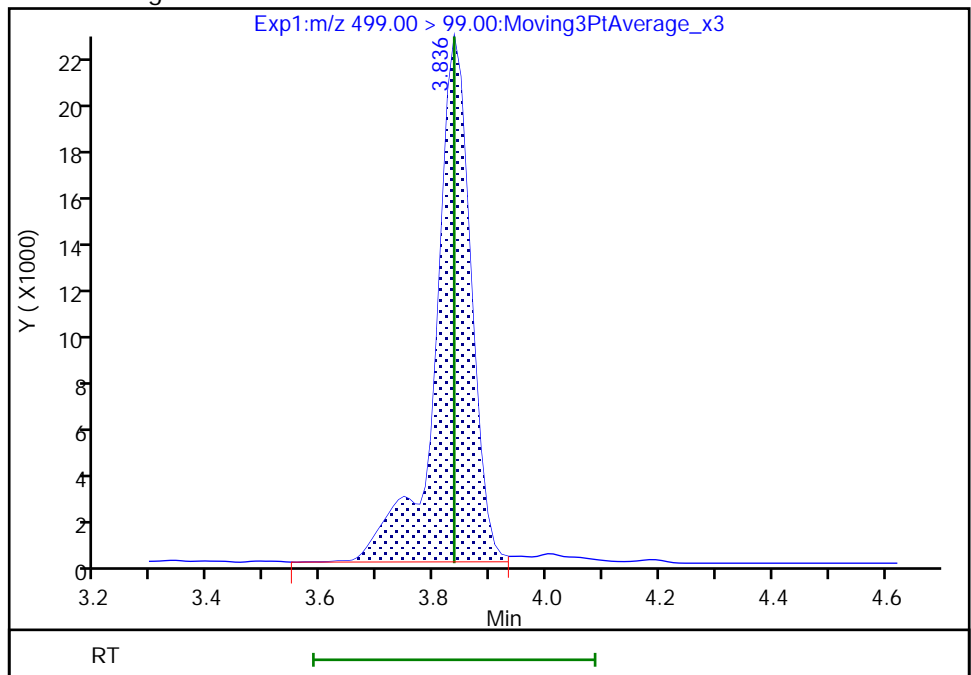
RT: 3.84
Area: 102100
Amount: 0.960938
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 97475
Amount: 0.930755
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 11:42:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

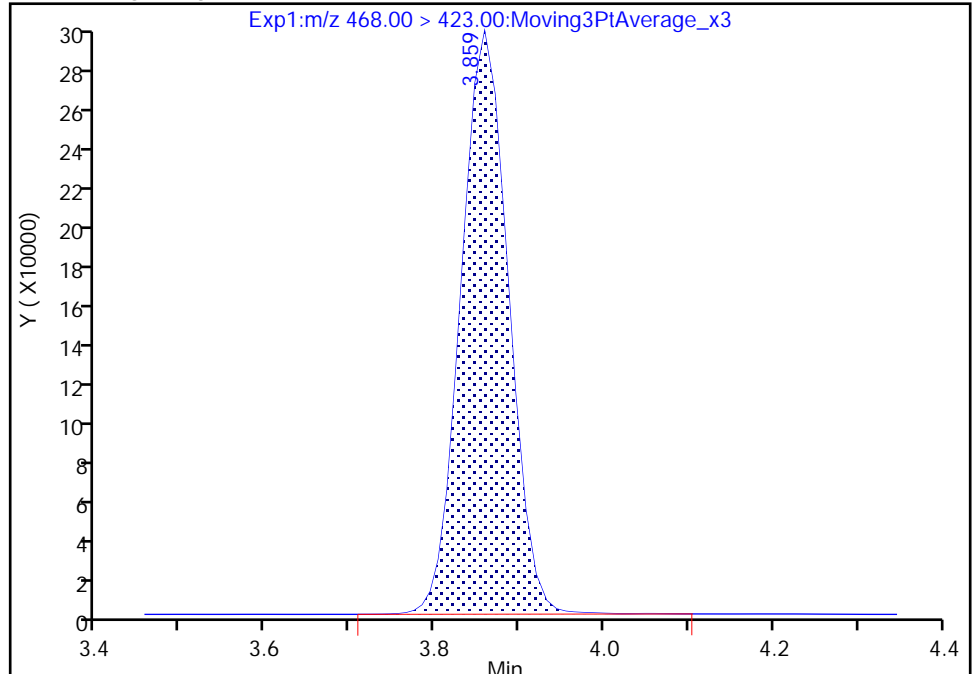
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection 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

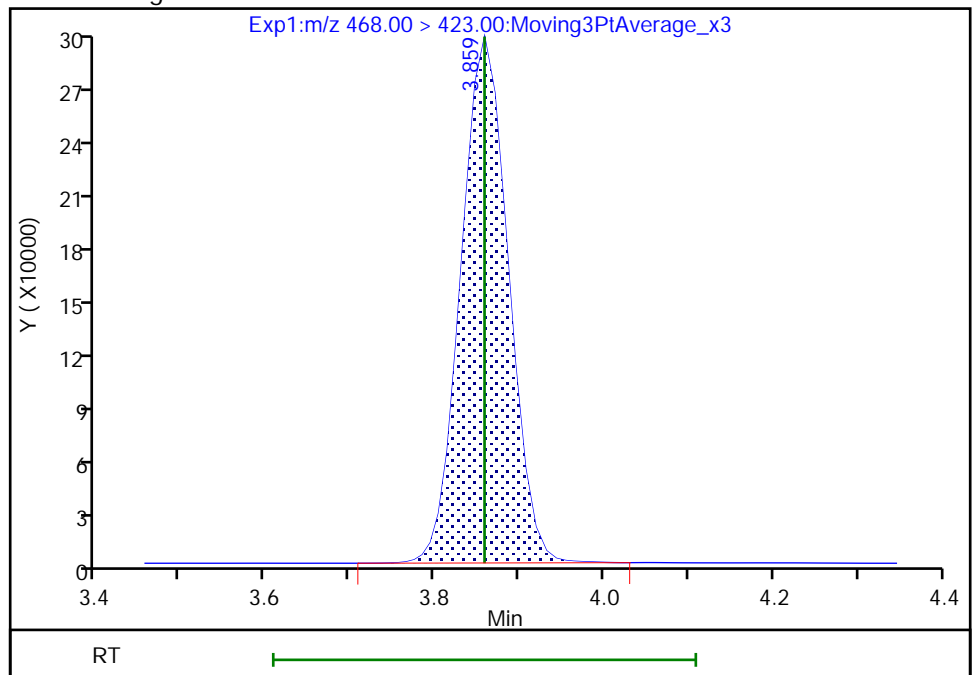
RT: 3.86
Area: 1159827
Amount: 1.224919
Amount Units: ng/ml

Processing Integration Results



RT: 3.86
Area: 1158004
Amount: 1.225668
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:14:09
Audit Action: Manually Integrated

Euofins TestAmerica, Burlington

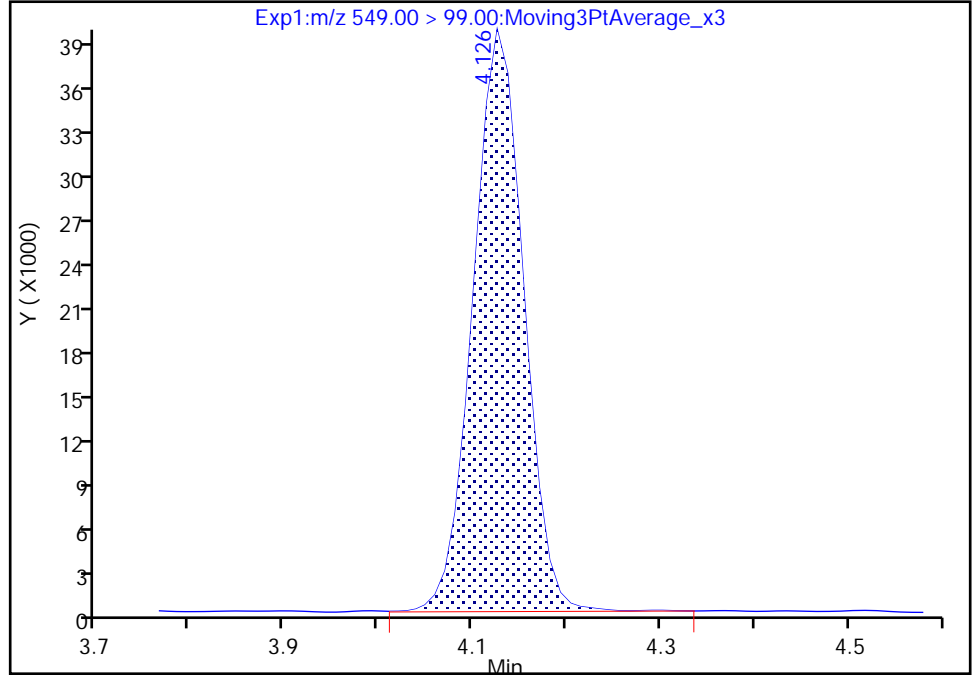
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

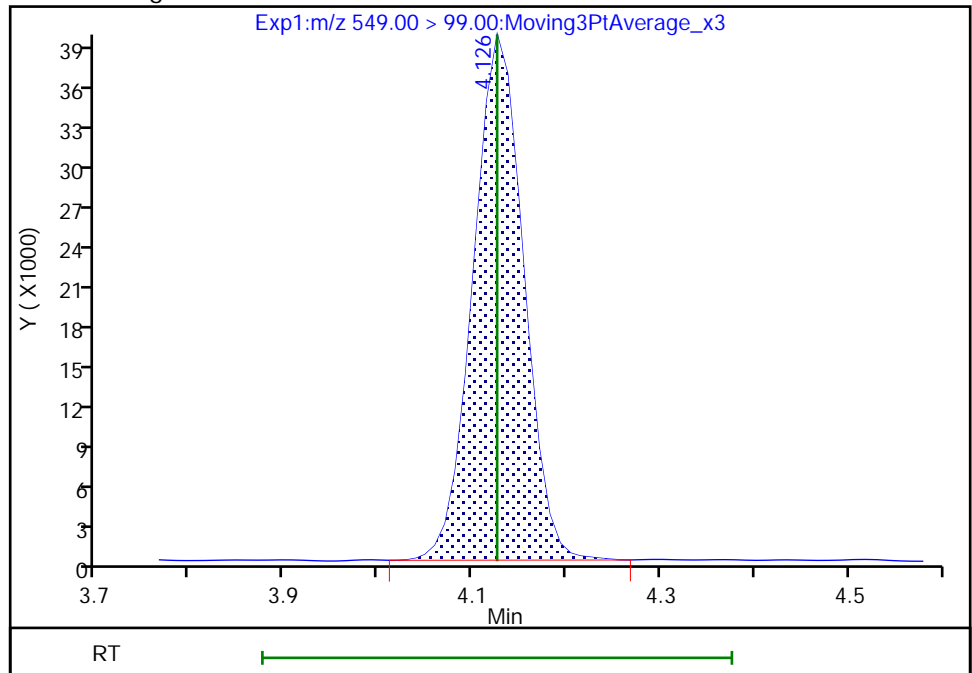
RT: 4.13
Area: 148313
Amount: 0.951283
Amount Units: ng/ml

Processing Integration Results



RT: 4.13
Area: 147738
Amount: 0.951283
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:19:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

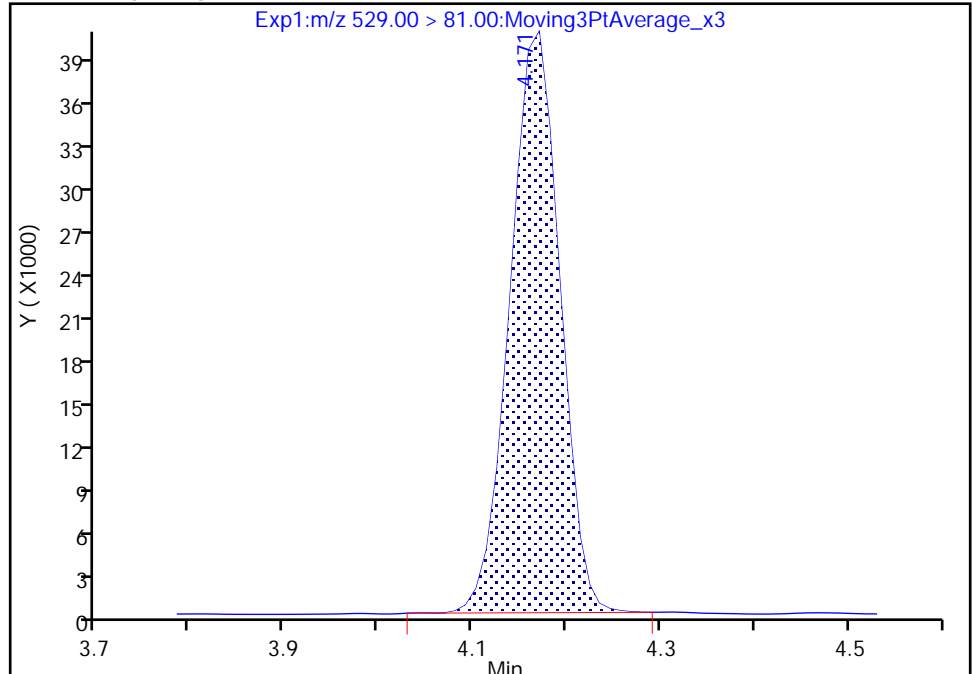
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection 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

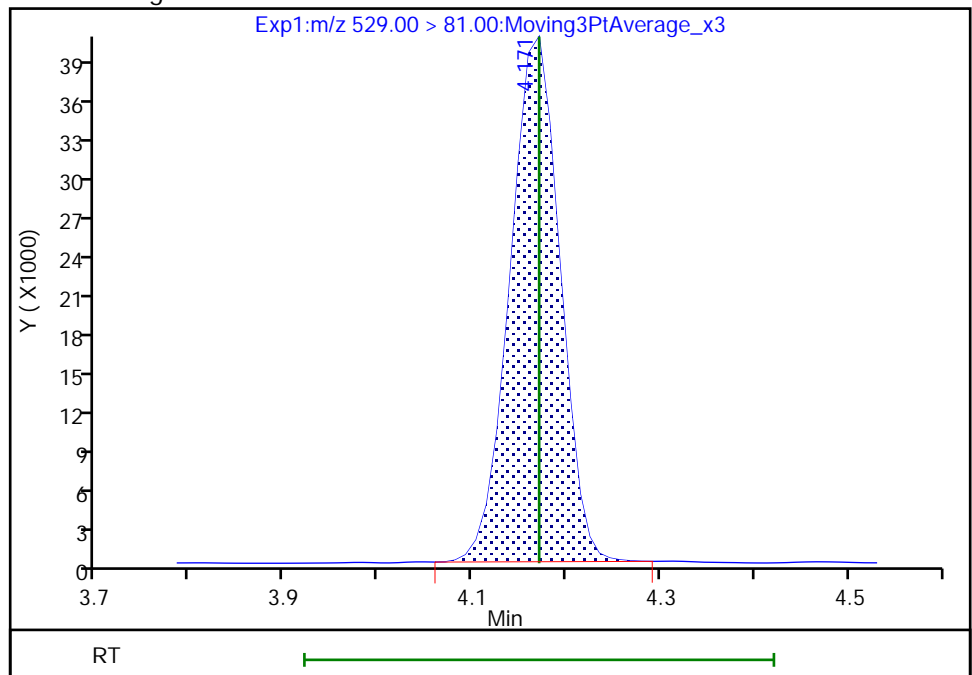
RT: 4.17
Area: 150425
Amount: 1.220497
Amount Units: ng/ml

Processing Integration Results



RT: 4.17
Area: 150403
Amount: 1.222986
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:14:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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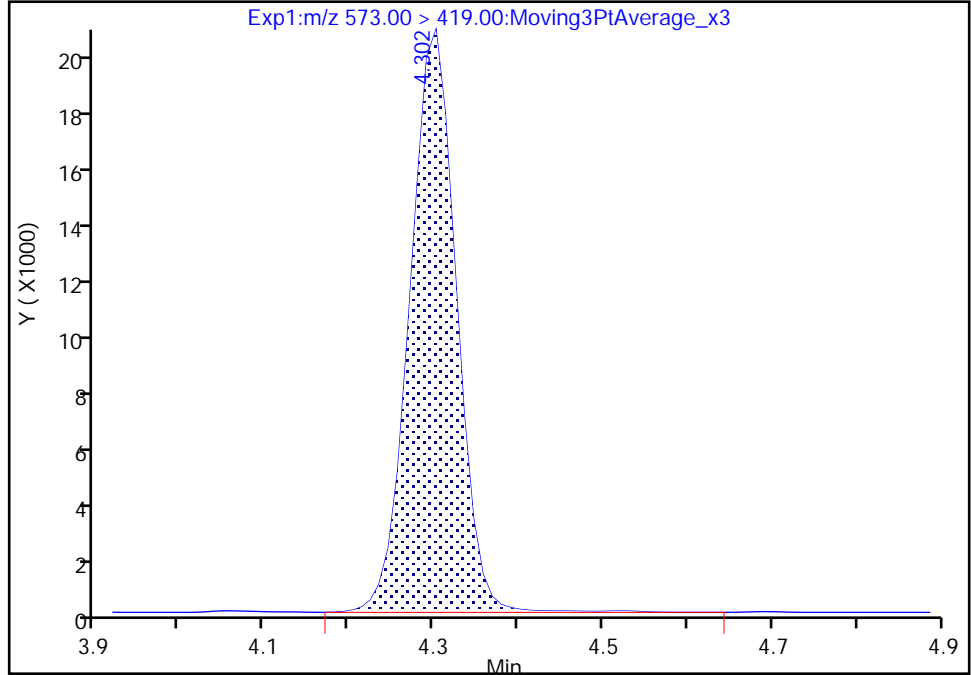
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection 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

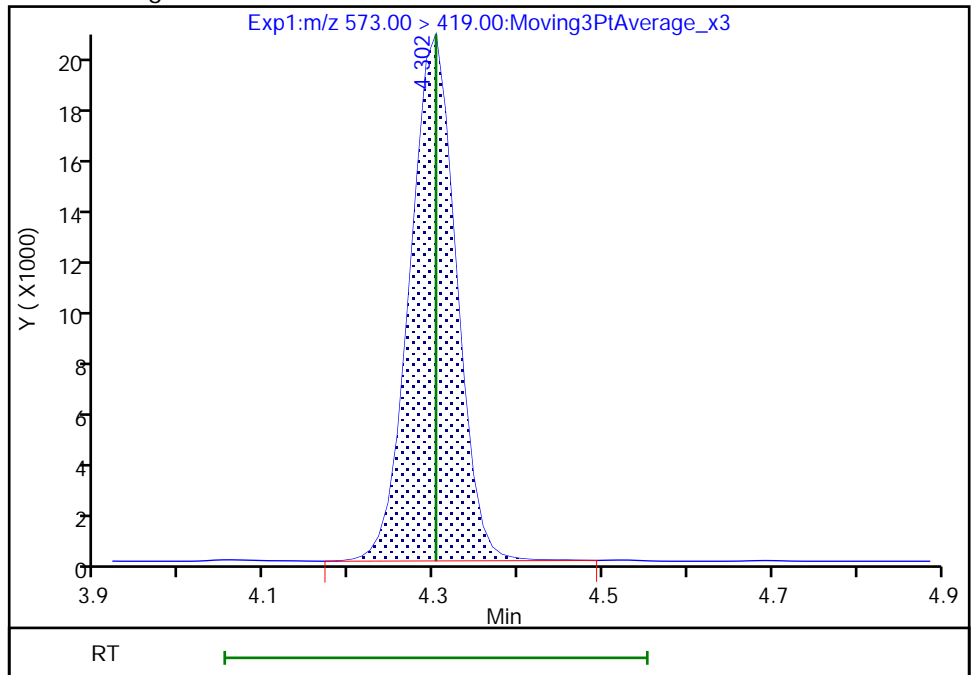
RT: 4.30
Area: 78670
Amount: 1.400561
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 78226
Amount: 1.395702
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:14:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

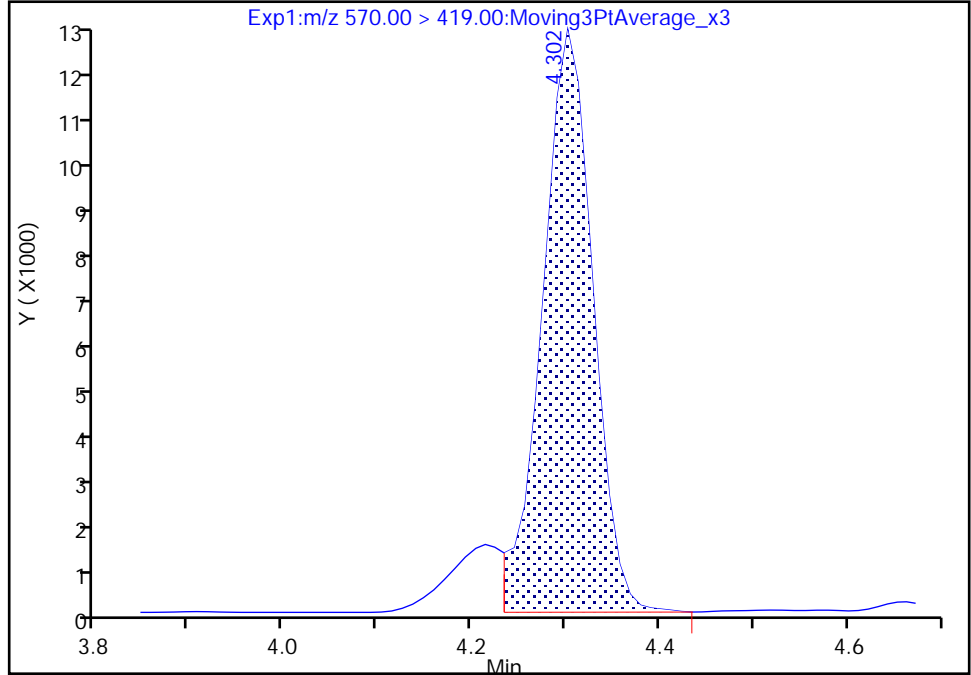
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

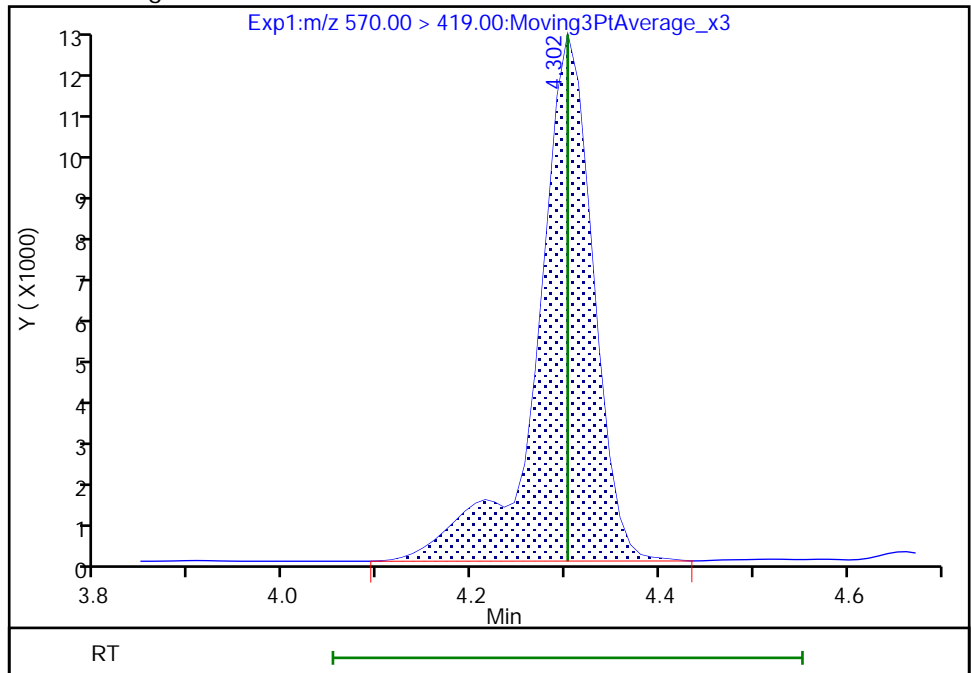
RT: 4.30
Area: 46650
Amount: 0.847957
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 52296
Amount: 0.950584
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

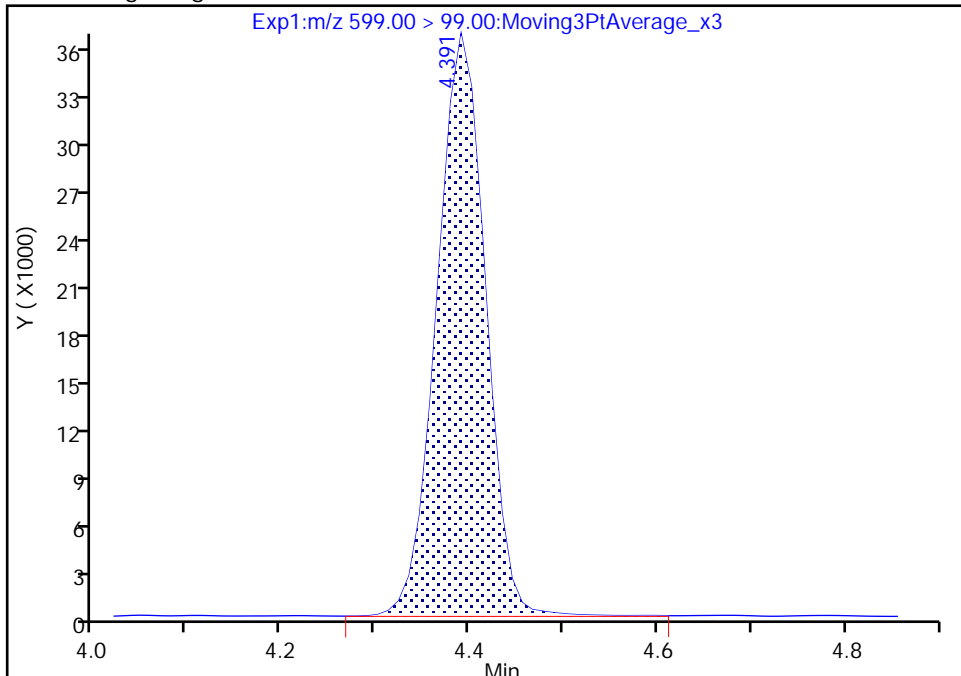
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

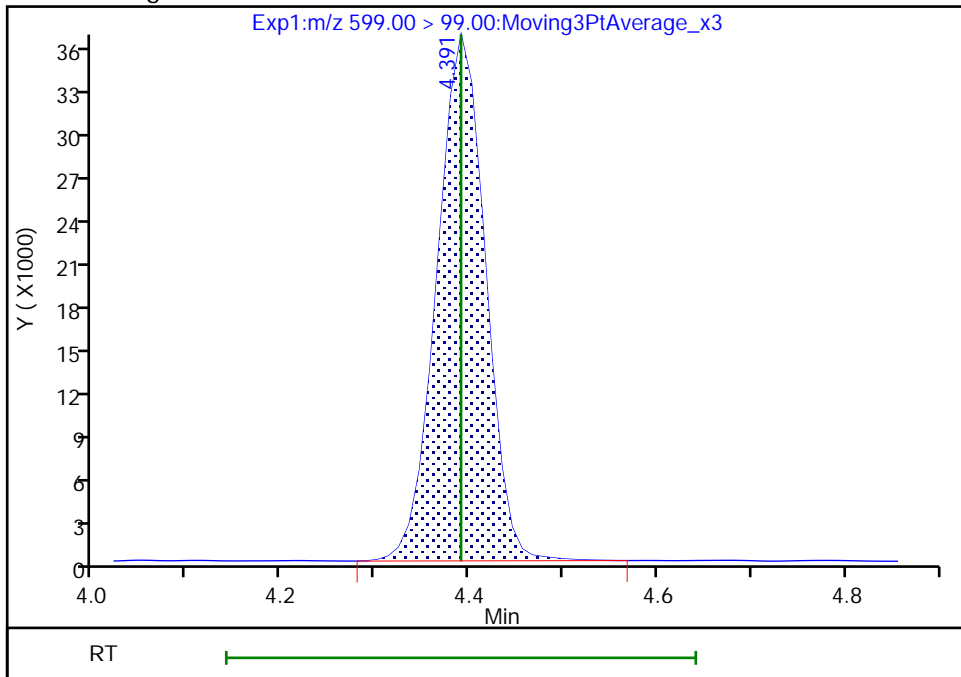
RT: 4.39
Area: 130468
Amount: 0.936000
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 129820
Amount: 0.936000
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:20:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

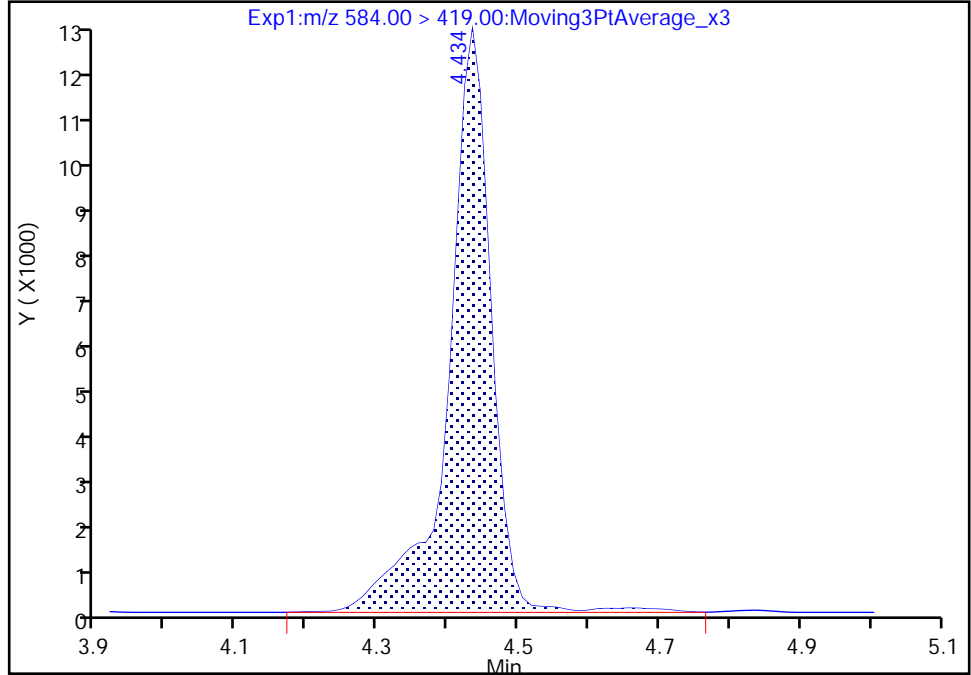
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

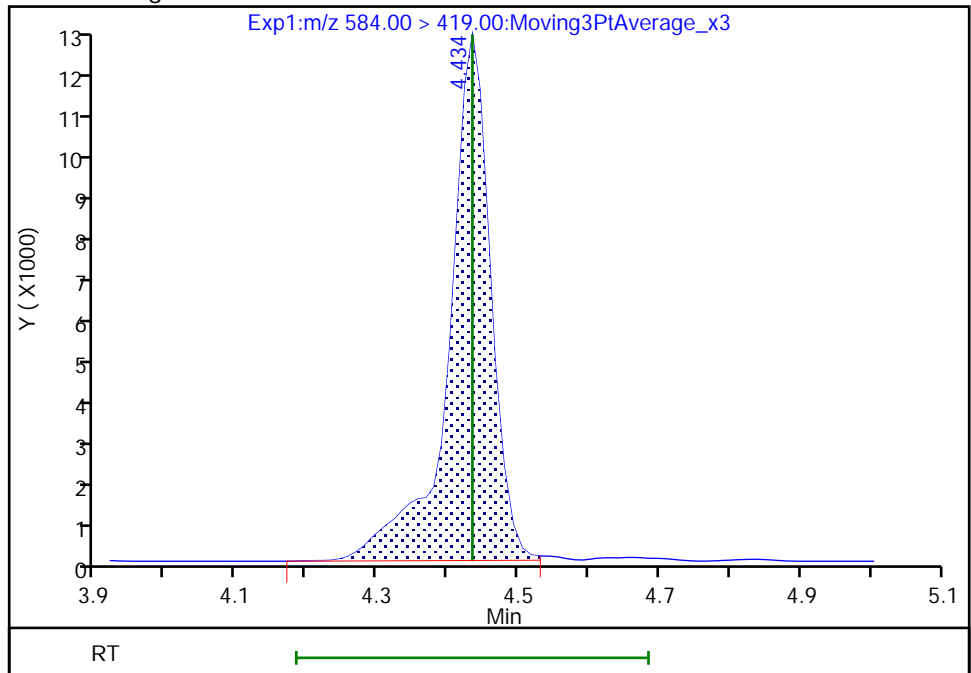
RT: 4.43
Area: 51175
Amount: 0.952021
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 50052
Amount: 0.930888
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:20:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

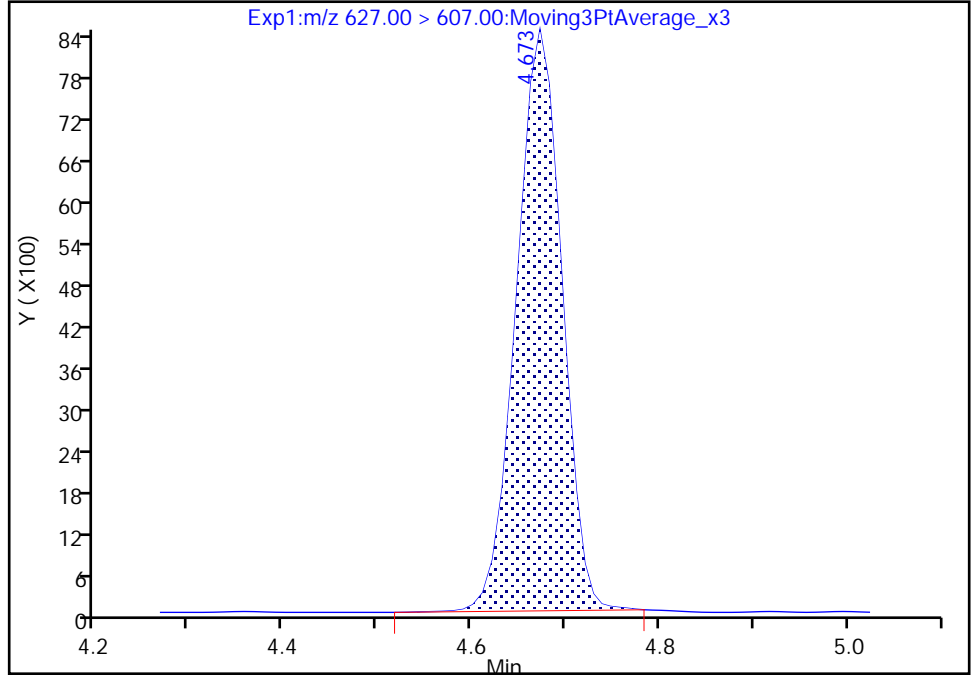
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

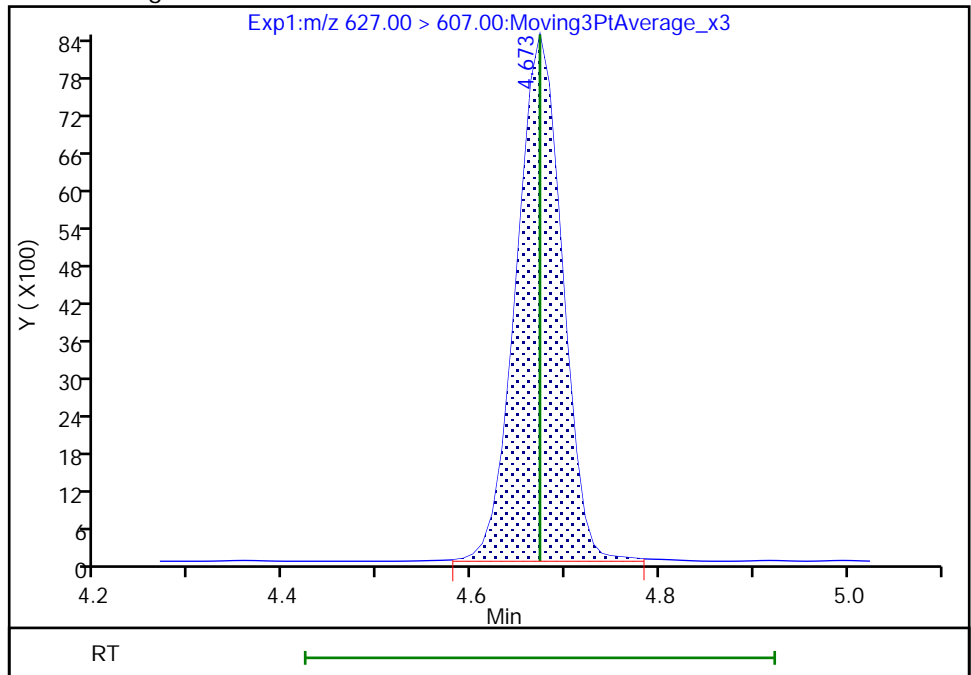
RT: 4.67
Area: 28473
Amount: 0.880715
Amount Units: ng/ml

Processing Integration Results



RT: 4.67
Area: 28743
Amount: 0.889067
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

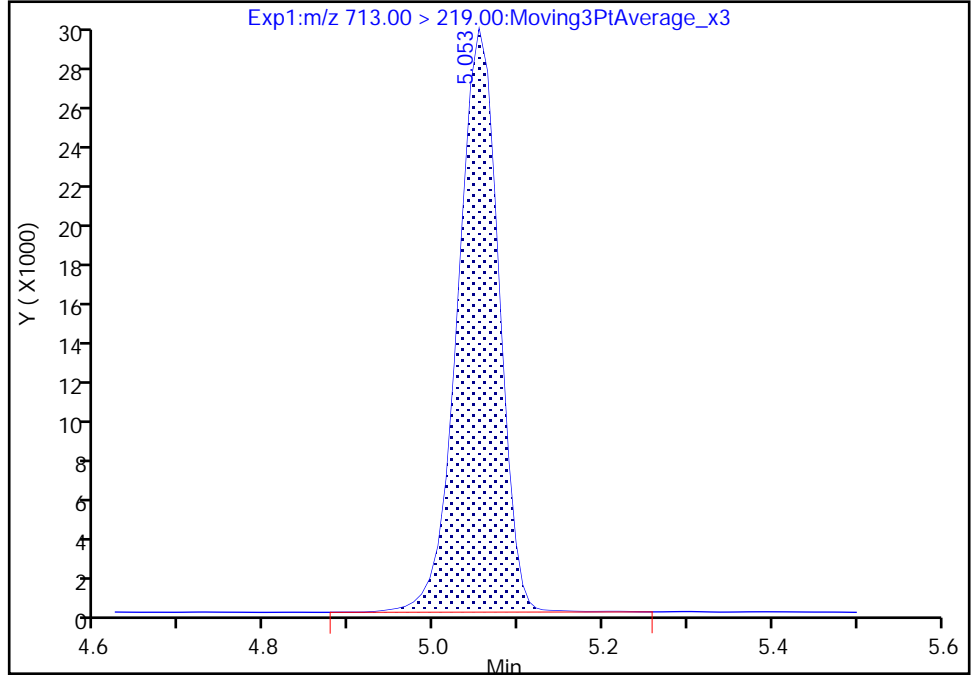
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

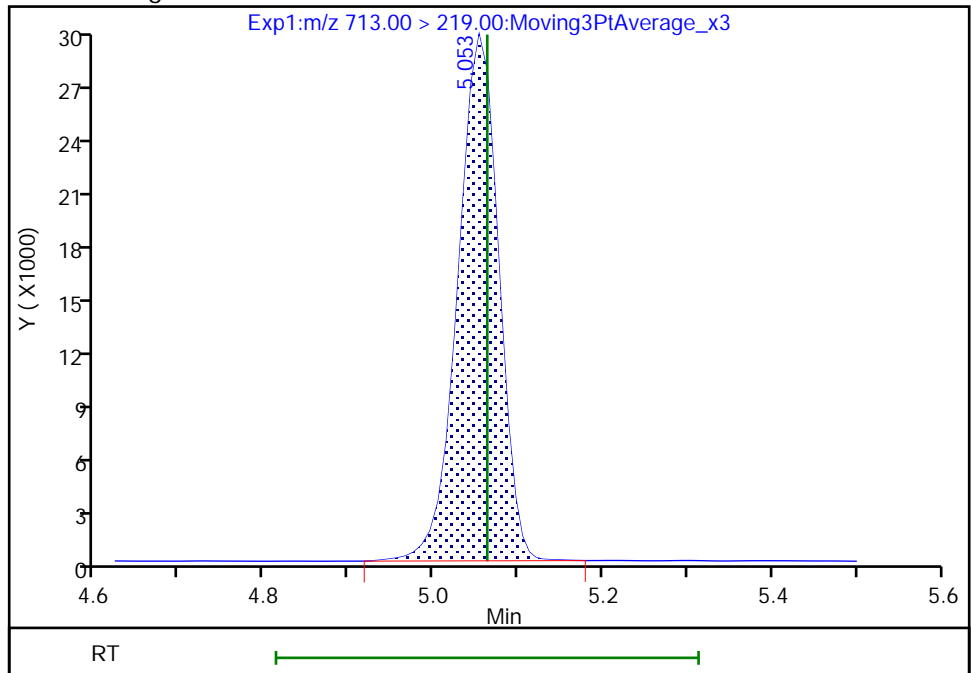
RT: 5.05
Area: 97856
Amount: 0.984850
Amount Units: ng/ml

Processing Integration Results



RT: 5.05
Area: 97623
Amount: 0.984850
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:20:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

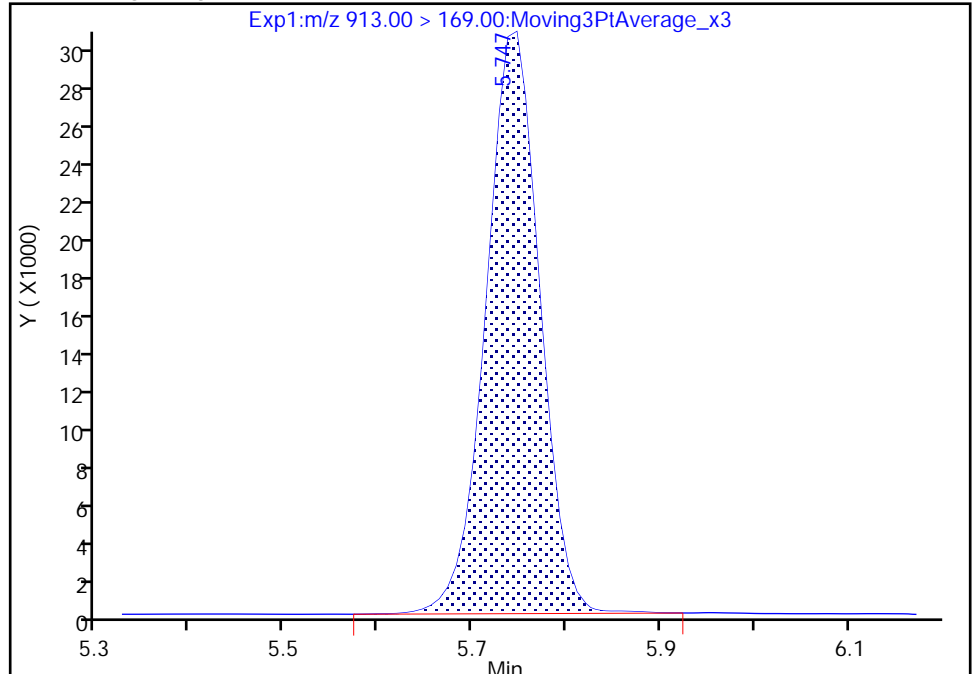
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C01.d
Injection Date: 21-May-2021 22:37:00 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

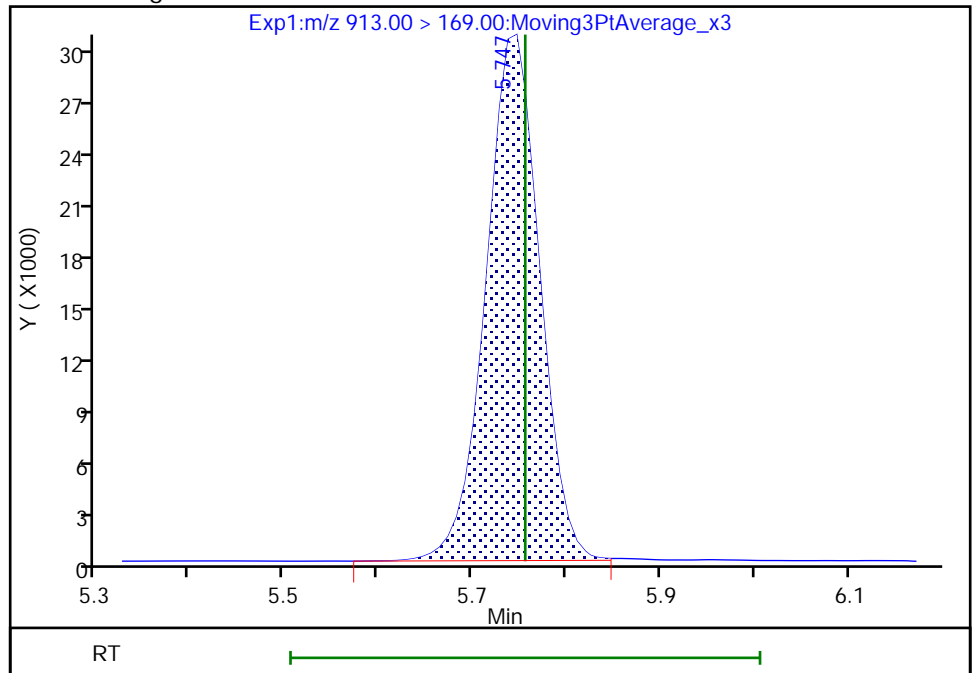
RT: 5.75
Area: 119195
Amount: 0.935142
Amount Units: ng/ml

Processing Integration Results



RT: 5.75
Area: 118965
Amount: 0.935142
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:21:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: CCV 200-167173/15 Calibration Date: 05/22/2021 00:33
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210521C15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9349	0.8871		2.37	2.50	-5.1	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.011	1.044		2.58	2.50	3.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.030	0.9808		2.10	2.21	-4.8	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.743	1.600		2.14	2.34	-8.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.012	0.9688		2.39	2.50	-4.3	40.0
Perfluoropentanesulfonic acid	AveID	1.218	1.184		2.28	2.35	-2.8	50.0
HFPO-DA	AveID	1.655	1.423		2.15	2.50	-14.0	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.109	1.115		2.29	2.28	0.5	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.009	1.030		2.55	2.50	2.1	40.0
DONA	AveID	3.141	3.132		2.35	2.36	-0.3	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.8971	0.9255		2.44	2.37	3.2	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.242	1.258		2.41	2.38	1.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.027	0.9861		2.40	2.50	-4.0	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.077	1.056		2.28	2.32	-1.9	40.0
Perfluorononanoic acid (PFNA)	AveID	0.9633	0.9691		2.52	2.50	0.6	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	1.036	1.050		2.36	2.33	1.4	50.0
Perfluorononanesulfonic acid	AveID	0.8018	0.8154		2.44	2.40	1.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.046	1.001		2.39	2.50	-4.3	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.5017	0.4695		2.24	2.40	-6.4	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9783	0.9672		2.47	2.50	-1.1	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.8791	0.8741		2.49	2.50	-0.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6311	0.6111		2.33	2.41	-3.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9891	1.010		2.55	2.50	2.2	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	L1ID		0.8130		2.33	2.50	-6.9	30.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.9218	0.8929		2.28	2.36	-3.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.003	0.9698		2.42	2.50	-3.3	40.0
10:2 FTS	AveID	0.2574	0.2182		2.04	2.41	-15.2	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2153	0.2201		2.47	2.42	2.2	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8085	0.7900		2.44	2.50	-2.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2045	0.2093		2.56	2.50	2.3	40.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Lab Sample ID: CCV 200-167173/15 Calibration Date: 05/22/2021 00:33
 Instrument ID: LC812 Calib Start Date: 05/20/2021 16:55
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 05/20/2021 17:37
 Lab File ID: PA210521C15.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9834		2.57	2.50	2.6	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.8543	0.8630		2.53	2.50	1.0	50.0
13C4 PFBA	Ave	1.253	1.201		1.20	1.25	-4.2	50.0
13C5 PFPeA	Ave	0.9108	0.8442		1.16	1.25	-7.3	50.0
13C3 PFBS	Ave	1.138	1.068		1.09	1.16	-6.2	50.0
M2-4:2 FTS	Ave	0.0884	0.0864		1.14	1.17	-2.3	50.0
13C2 PFHxA	Ave	0.9887	0.9348		1.18	1.25	-5.4	50.0
13C3 HFPO-DA	Ave	0.1094	0.1226		1.40	1.25	12.0	50.0
1802 PFHxS	Ave	0.8838	0.8116		1.09	1.18	-8.2	50.0
13C4 PFHpA	Ave	0.9882	0.9364		1.18	1.25	-5.2	50.0
M2-6:2 FTS	Ave	0.1171	0.1131		1.15	1.19	-3.4	50.0
13C4 PFOA	Ave	1.001	0.9930		1.24	1.25	-0.8	50.0
13C4 PFOS	Ave	0.6377	0.5976		1.12	1.20	-6.3	50.0
13C5 PFNA	Ave	0.9222	0.8599		1.17	1.25	-6.8	50.0
13C2 PFDA	Ave	0.8087	0.8031		1.24	1.25	-0.7	50.0
M2-8:2 FTS	Ave	0.1200	0.1298		1.29	1.20	8.1	50.0
13C8 FOSA	Ave	1.141	1.026		1.12	1.25	-10.1	50.0
d3-NMeFOSAA	Ave	0.0547	0.0597		1.36	1.25	9.2	50.0
13C2 PFUnA	Ave	0.6487	0.6029		1.16	1.25	-7.1	50.0
d5-NEtFOSAA	Ave	0.0549	0.0595		1.36	1.25	8.4	50.0
13C2 PFDoA	Ave	0.6788	0.6500		1.20	1.25	-4.2	50.0
13C2 PFTeDA	Ave	0.4966	0.4620		1.16	1.25	-7.0	50.0
13C2 PFHxDA	Ave	0.4862	0.4569		1.17	1.25	-6.0	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 22-May-2021 00:33:03 ALS Bottle#: 42 Worklist Smp#: 15
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0046090-015 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:14:14 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 09:32:19

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	2.091	0.009	0.597	1552461	1.20	95.8	11788	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.100	2.100	0.0	1.000	2754482	2.37		94.9	519	M
D 3 13C5 PFPeA	267.90 > 223.00	2.426	2.426	0.0	0.689	1091091	1.16	92.7	1974	
4 Perfluoropentanoic acid	262.90 > 219.00	2.426	2.426	0.0	1.000	2277554	2.58	103	153	
D 47 13C3 PFBS	301.90 > 80.00	2.453	2.439	0.013	0.697	1284152	1.09	93.8	226404	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.453	2.439	0.013	1.000	2394443	2.10	Target=2.19	95.2	2529	
298.90 > 99.00	2.453	2.439	0.013	1.000	1119287		2.14(1.09-3.28)		614	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.746	2.746	0.0	0.780	104259	1.14	97.7	136	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.758	2.746	0.012	1.004	333602	2.14	91.8	2437	
D 7 13C2 PFHxA	315.00 > 270.00	2.795	2.782	0.013	0.794	1208300	1.18	94.6	3429	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.795	2.782	0.013	1.000	2341278	2.39	Target=12.12	95.7	475	
313.00 > 119.00	2.782	2.782	0.0	0.996	200037		11.70(6.06-18.18)		389	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.795	2.795	0.001	0.886	2329298	2.28	Target=3.58	97.2	1747	M
349.00 > 99.00	2.795	2.795	0.001	0.886	687139		3.39(1.79-5.37)		631	
67 Perfluoro(2-propoxypropanoic) ac	329.10 > 285.00	2.902	2.892	0.010	1.003	450939	2.15	86.0	200	

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	0.822	158438	1.40		112	1431	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.154	0.0	0.896	992408	1.09		91.8	1389	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.154	0.0	1.000	2128075	2.29	Target=4.23	101	1284	M
399.00 > 99.00	3.154	3.154	0.0	1.000	483141		4.40(2.12-6.35)		411	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.164	3.154	0.010	0.899	1210337	1.18		94.8	2483	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.164	3.164	0.0	1.000	2493167	2.55	Target=3.49	102	636	
363.00 > 169.00	3.164	3.164	0.0	1.000	701963		3.55(1.75-5.24)		1257	
77 DONA										
377.00 > 251.00	3.197	3.196	0.001	0.833	4558175	2.35	Target=2.43	99.7	3734	M
377.00 > 85.00	3.197	3.196	0.001	0.833	1936114		2.35(1.21-3.64)		1514	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.510	3.510	0.0	0.915	1850029	2.41	Target=6.21	101	3011	M
449.00 > 99.00	3.510	3.510	0.0	0.915	292674		6.32(3.10-9.31)		814	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	138861	1.15		96.6	558	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	256481	2.44		103	1775	M
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1283533	1.24		99.2	2668	M
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1292520	1.25			194	M
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	2531469	2.40	Target=2.53	96.0	823	M
413.00 > 169.00	3.519	3.519	0.0	1.000	1055996		2.40(1.27-3.80)		1991	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	738431	1.12		93.7	2131	
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	1514079	2.28	Target=6.09	98.1	614	M
499.00 > 99.00	3.836	3.836	0.0	1.000	264128		5.73(3.04-9.13)		340	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	2154261	2.52	Target=6.34	101	777	
463.00 > 169.00	3.859	3.858	0.001	1.000	332748		6.47(3.17-9.51)		1696	
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.097	1111452	1.17		93.2	2308	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	4.002	4.002	0.0	1.043	1511729	2.36		101	2488	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	1209282	2.44	Target=2.95	102	3257	
549.00 > 99.00	4.126	4.126	0.0	1.076	401145		3.01(1.47-4.42)		1692	
D 23 13C2 PFDA										
515.00 > 470.00	4.160	4.160	0.0	1.182	1037979	1.24		99.3	2493	

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	4.160	0.0	1.000	2078725	2.39	Target=7.79	95.7	1525	
513.00 > 169.00	4.160	4.160	0.0	1.000	267371		7.77(3.90-11.69)		1386	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.171	4.171	0.0	1.185	160683	1.29		108	820	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.171	4.171	0.0	1.000	150895	2.24		93.6	1542	M
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.225	0.0	1.201	1326066	1.12		89.9	2572	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.225	0.0	1.000	2565090	2.47		98.9	2520	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.302	4.302	0.0	1.223	77209	1.36		109	162	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.000	134978	2.49		99.4	565	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.391	0.0	1.145	910136	2.33	Target=2.87	96.8	2330	
599.00 > 99.00	4.391	4.391	0.0	1.145	338844		2.69(1.44-4.31)		2658	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.424	4.424	0.0	1.000	1574802	2.55	Target=7.94	102	1532	M
563.00 > 169.00	4.424	4.424	0.0	1.000	213274		7.38(3.97-11.91)		1551	
D 30 13C2 PFUnA										
565.00 > 520.00	4.424	4.424	0.0	1.257	779281	1.16		92.9	3457	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.434	4.434	0.0	1.260	76947	1.36		108	666	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.434	4.434	0.0	1.000	125114	2.33		93.1	675	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.518	4.518	0.0	1.178	1299313	2.28		96.9	1183	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.653	4.653	0.0	1.322	840094	1.20		95.8	2112	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.653	4.653	0.0	1.000	1629521	2.42	Target=5.94	96.7	728	
613.00 > 169.00	4.653	4.653	0.0	1.000	289556		5.63(2.97-8.92)		1445	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.673	4.673	0.0	1.120	70565	2.04		84.8	1463	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.834	4.834	0.0	1.260	329150	2.47	Target=0.44	102	2194	
699.00 > 99.00	4.822	4.834	-0.012	1.257	682025		0.48(0.22-0.66)		2301	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.867	4.867	0.0	1.046	1327355	2.44	Target=3.97	97.7	632	M
663.00 > 169.00	4.867	4.867	0.0	1.046	334950		3.96(1.99-5.96)		1994	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.063	5.063	0.0	1.439	597109	1.16		93.0	3363	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.063	5.063	0.0	1.000	249893	2.56	Target=1.01	102	2543	
713.00 > 219.00	5.053	5.063	-0.010	0.998	235013		1.06(0.51-1.52)		3838	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	5.417	5.416	0.001	1.539	590530	1.17		94.0	2553	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.417	5.416	0.001	1.000	1161419	2.57	Target=3.56	103	730	
813.00 > 169.00	5.417	5.416	0.001	1.000	332090		3.50(1.78-5.34)		2020	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.747	5.756	-0.009	1.061	1019197	2.53	Target=3.39	101	677	M
913.00 > 169.00	5.747	5.756	-0.009	1.061	303030		3.36(1.70-5.09)		1283	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00019

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d

Injection Date: 22-May-2021 00:33:03

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 42

Worklist Smp#: 15

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

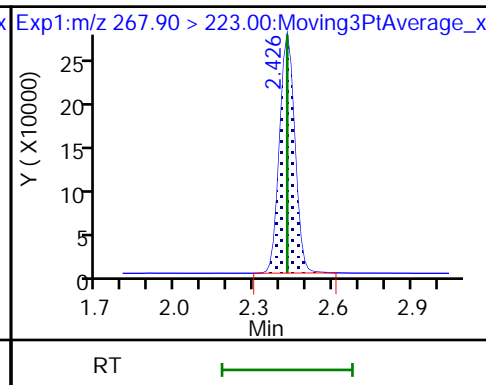
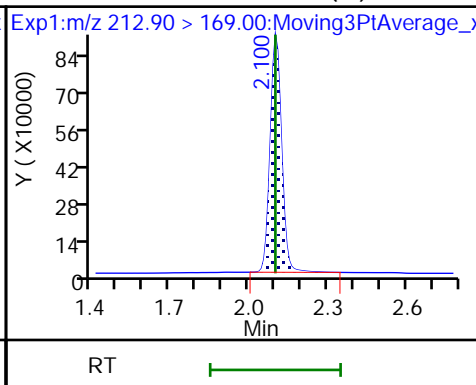
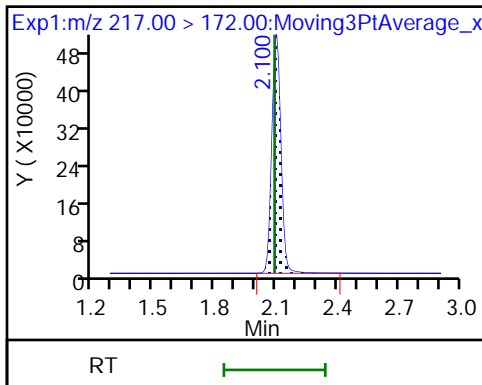
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

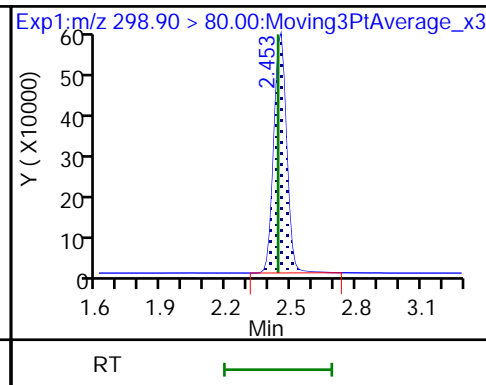
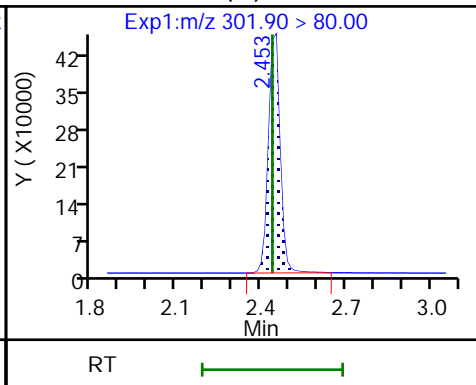
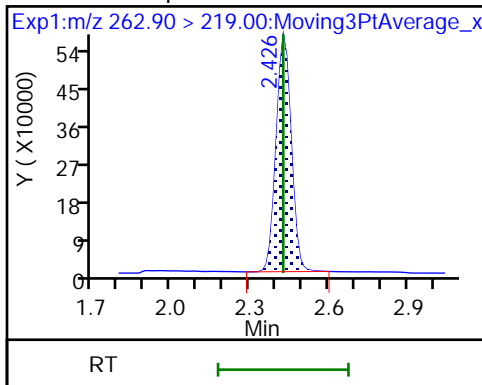
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

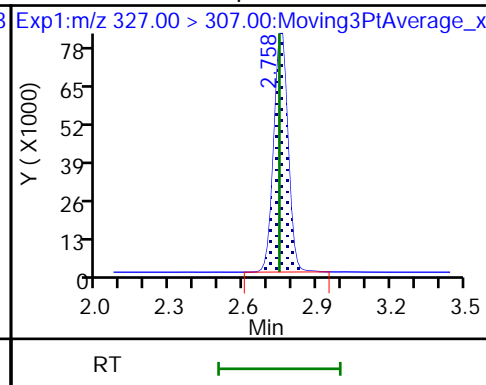
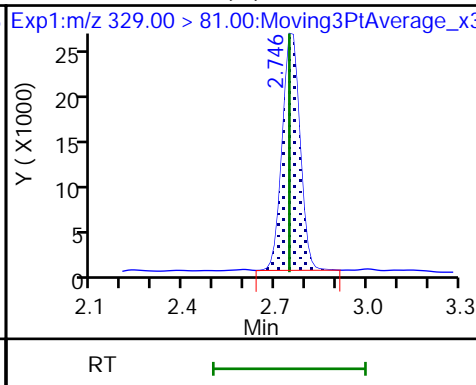
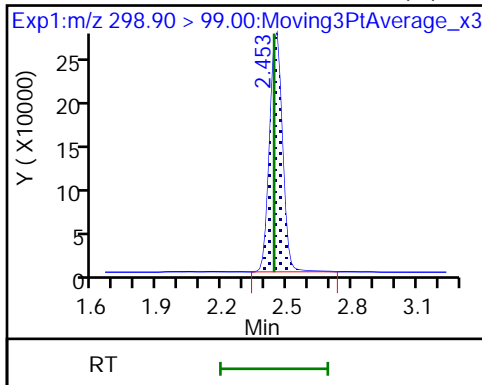
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

D 60 M2-4:2 FTS (M)

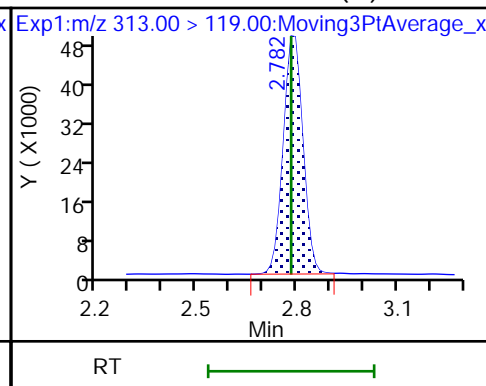
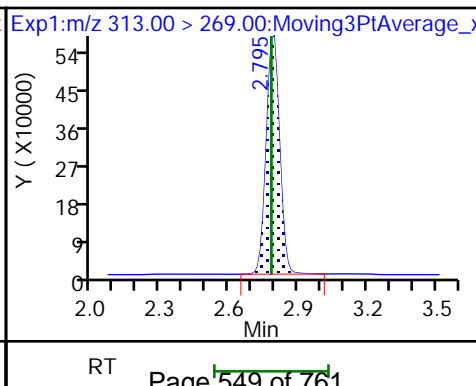
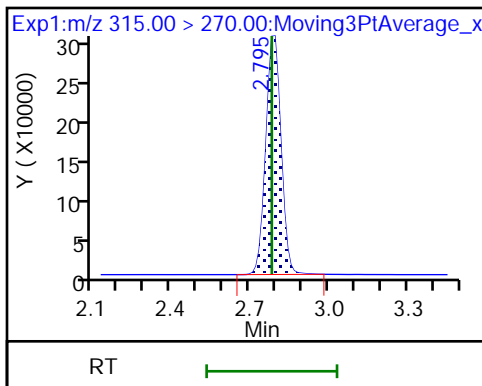
61 1H,1H,2H,2H-perfluorohexanesulfo

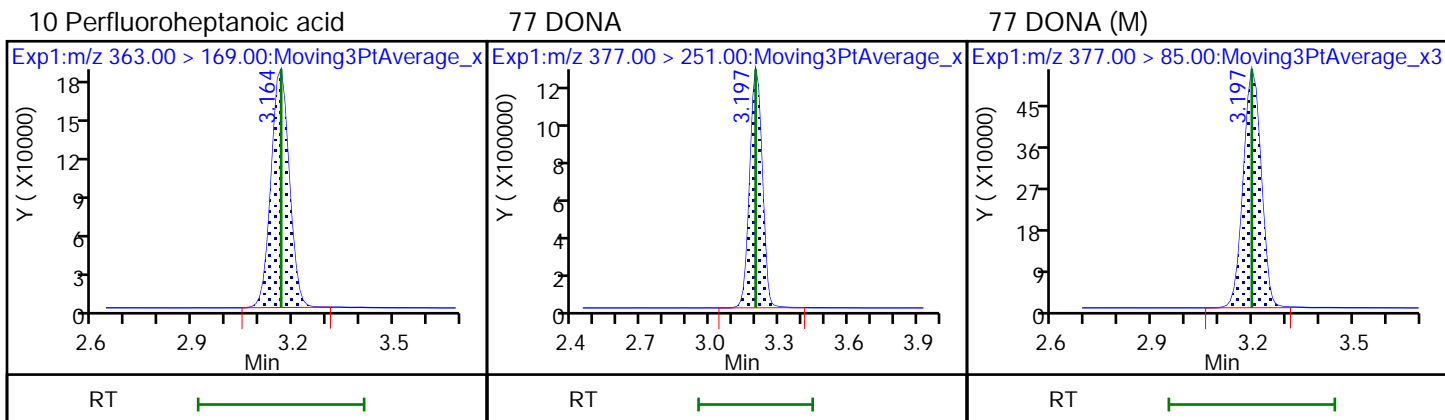
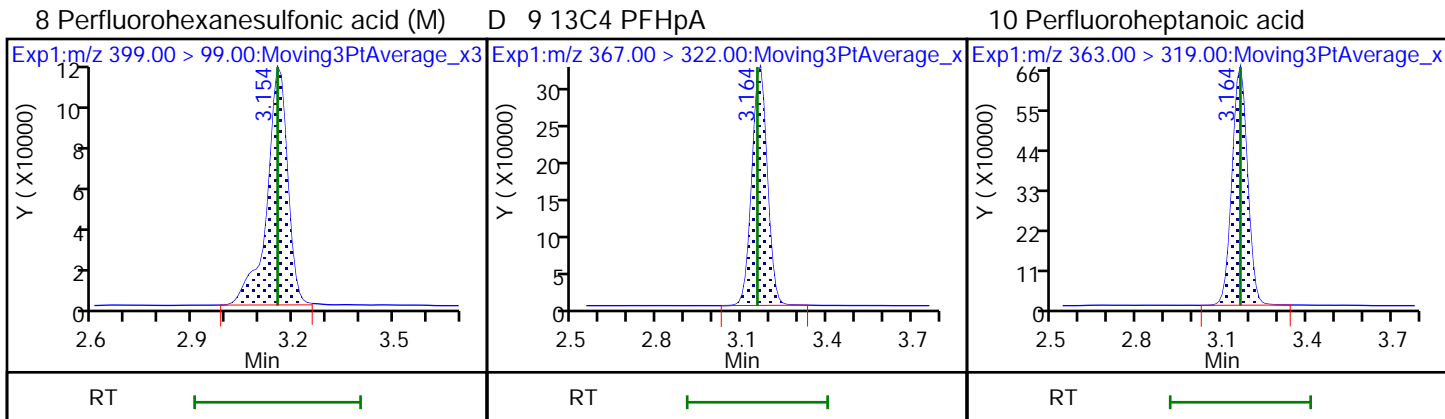
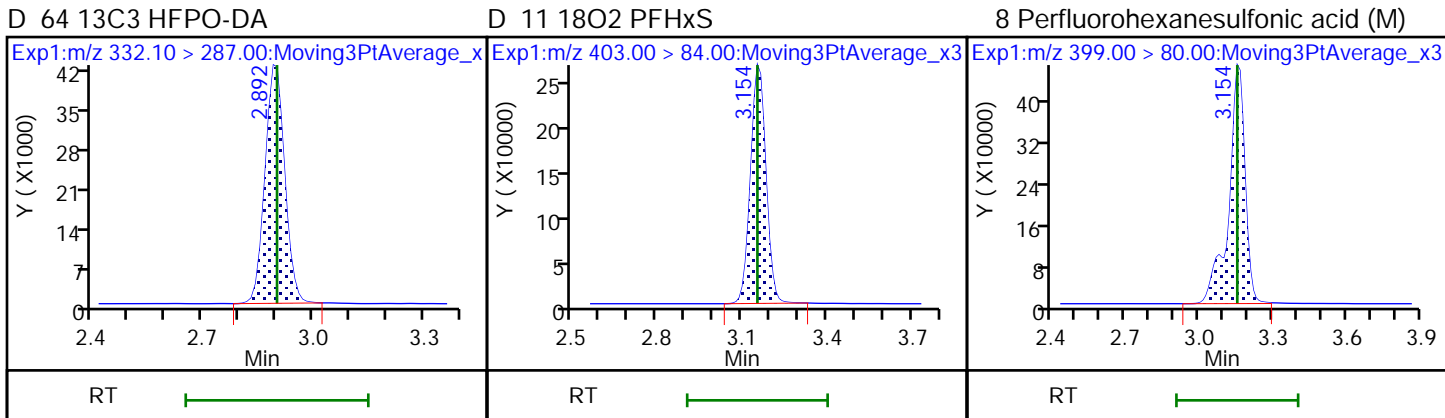
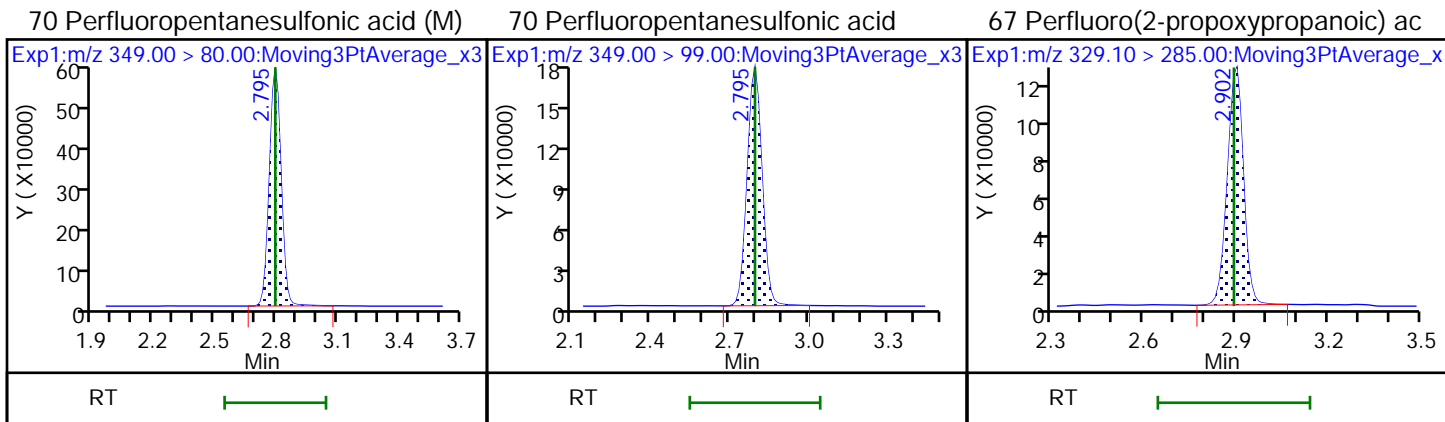


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid (M)

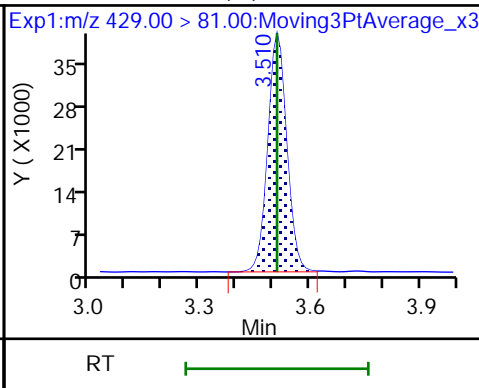
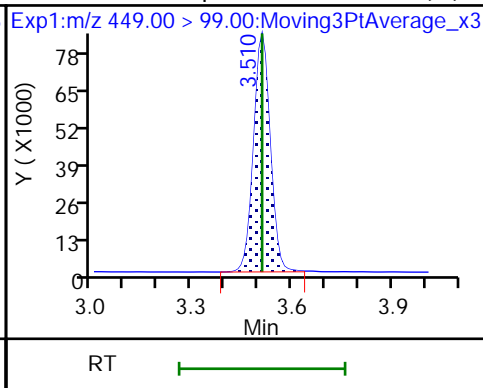
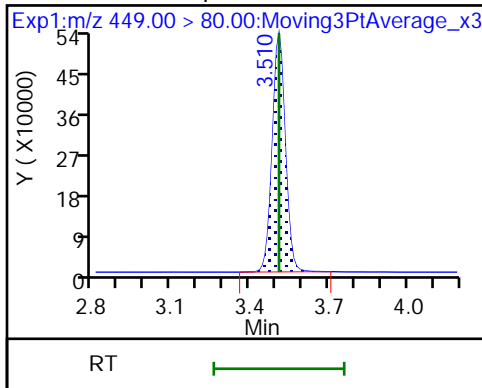




16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid (M)

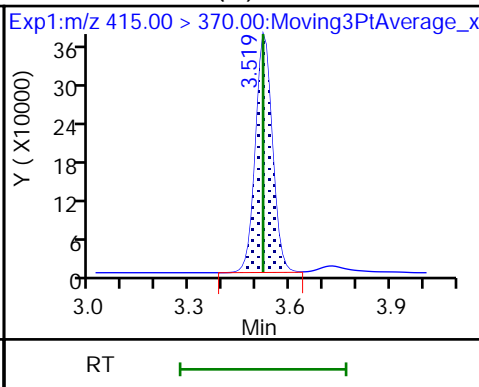
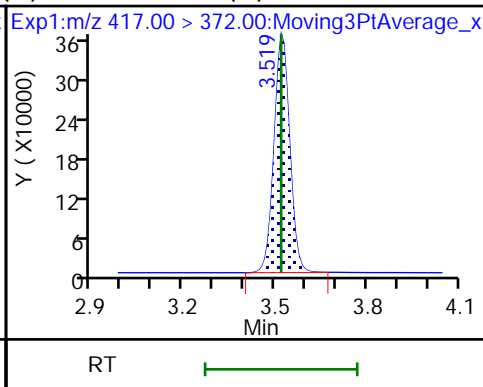
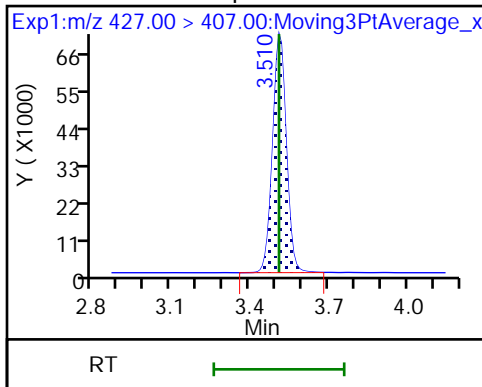
D 12 M2-6:2 FTS (M)



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

14 13C4 PFOA (M)

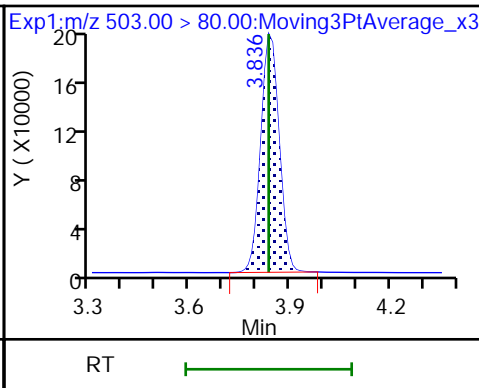
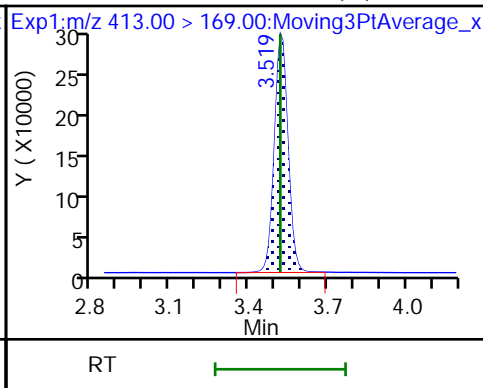
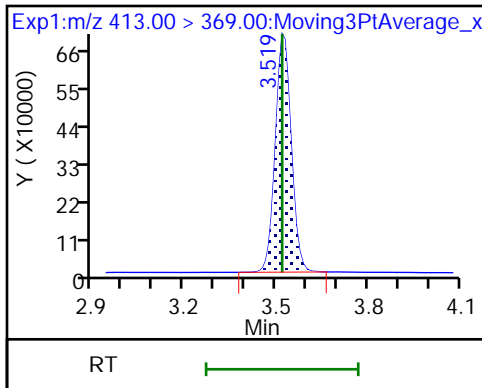
* 62 13C2 PFOA (M)



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

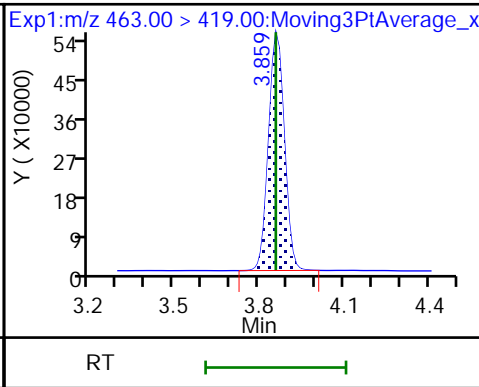
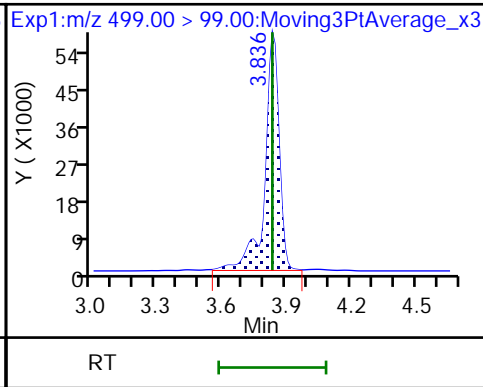
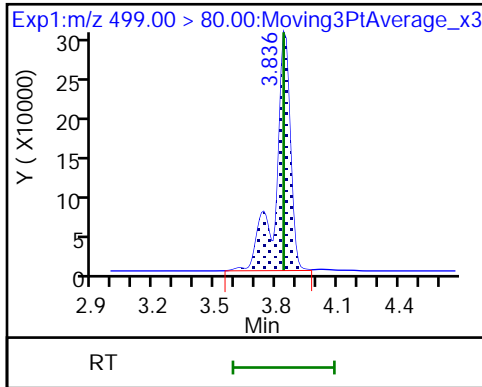
D 18 13C4 PFOS

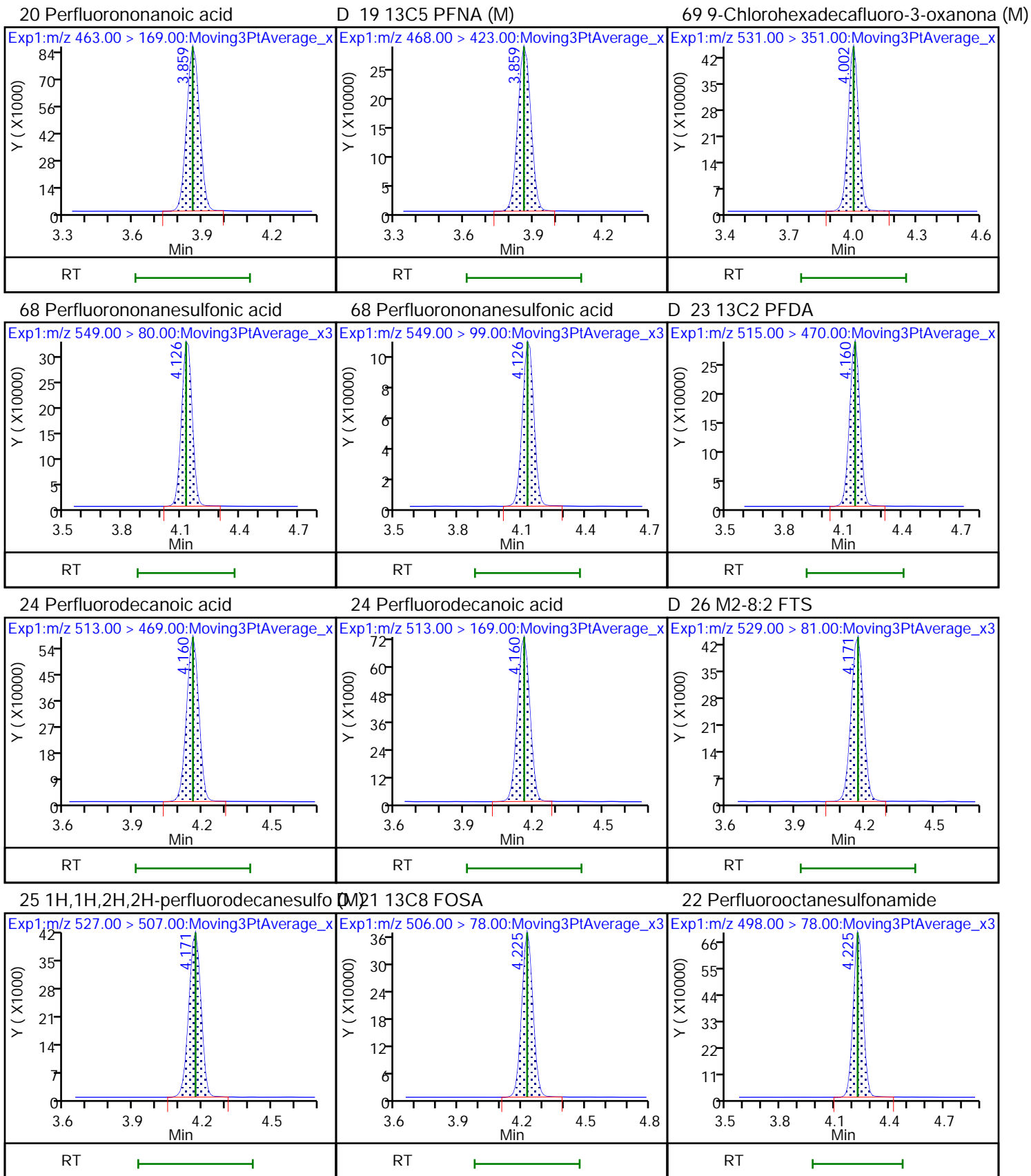


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

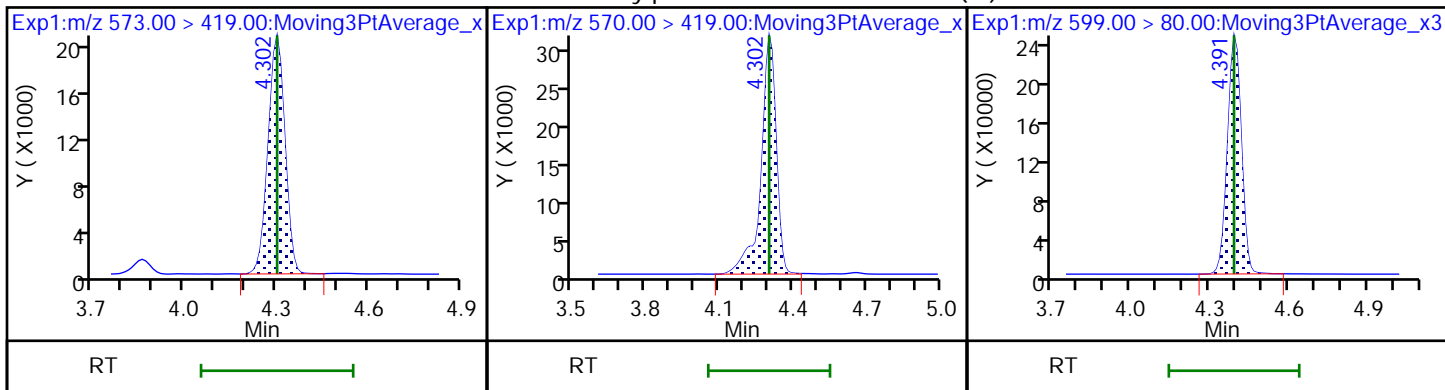
20 Perfluorononanoic acid





D 27 d3-NMeFOSAA

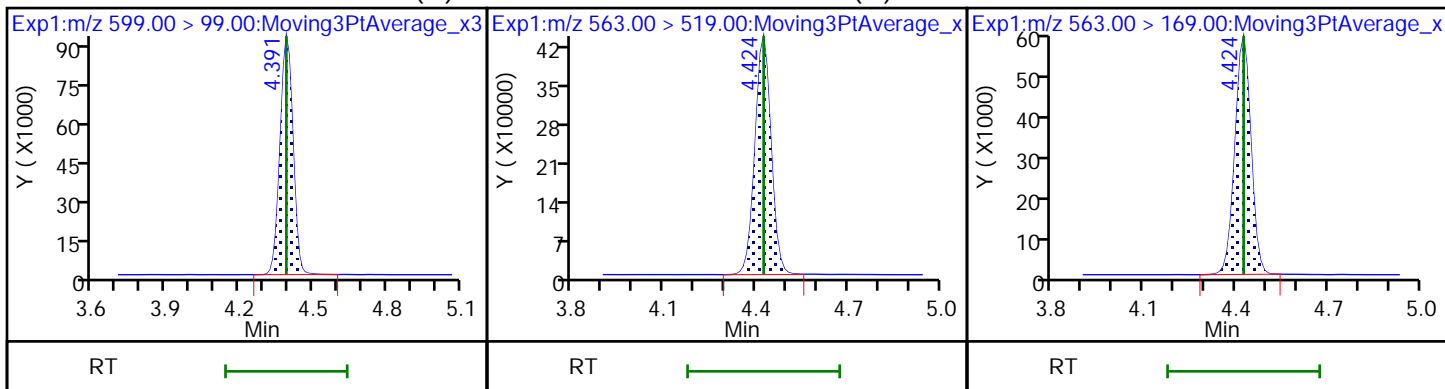
28 N-methylperfluorooctanesulfonami (M)
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

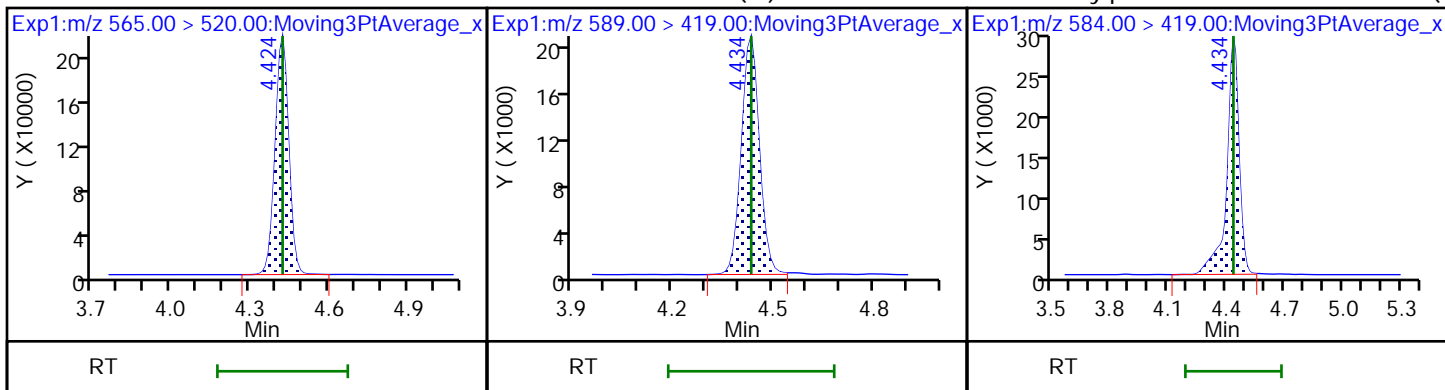
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

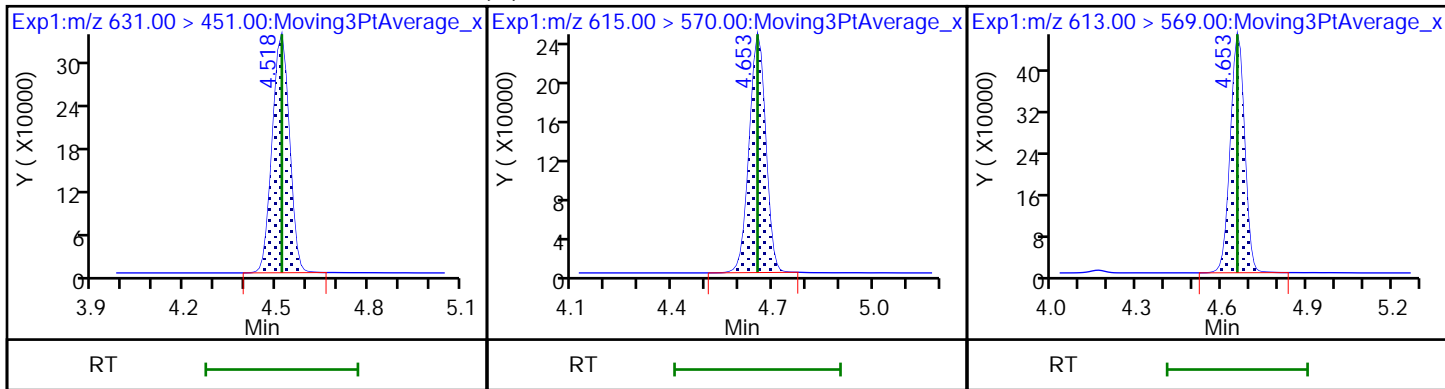
D 32 d5-NEtFOSAA (M)

33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec (M)
36 13C2 PFDoA

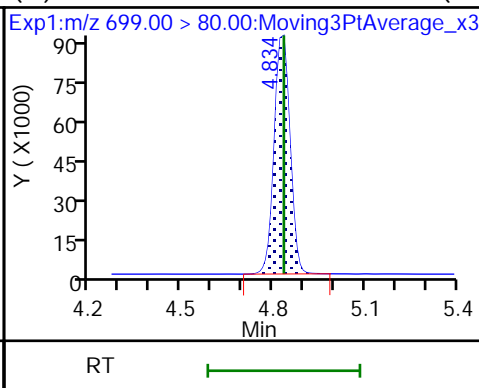
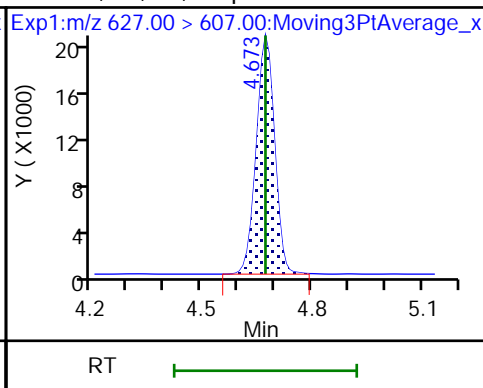
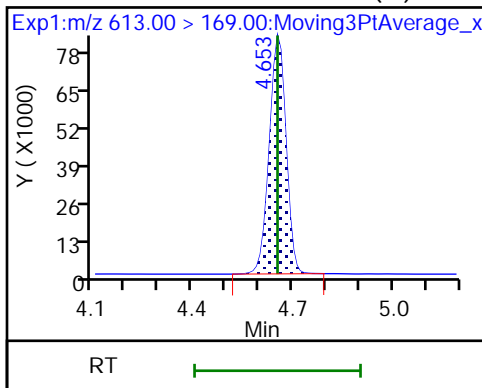
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid (M)

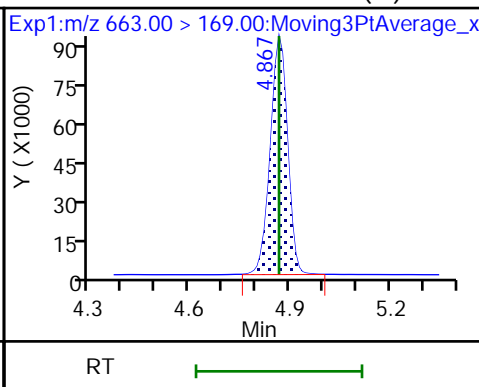
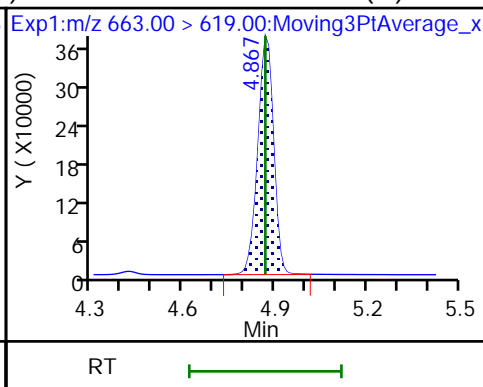
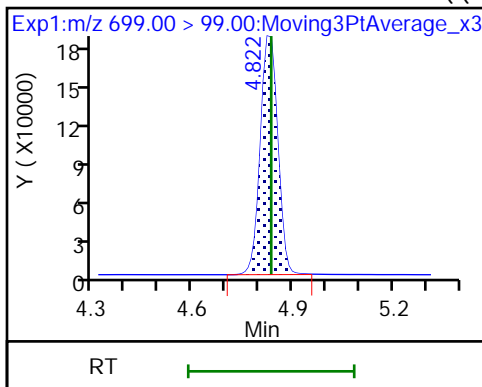
74 1H,1H,2H,2H-perfluorododecanesul (M)

75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M)

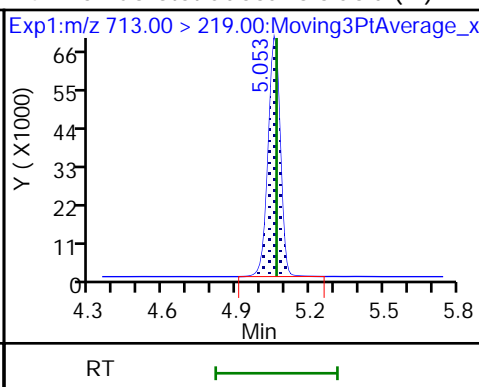
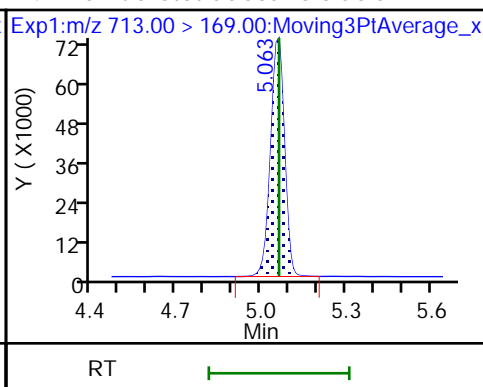
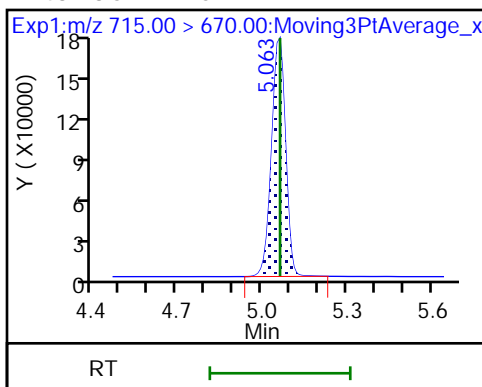
41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

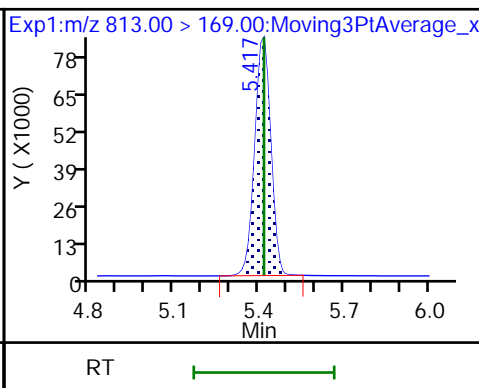
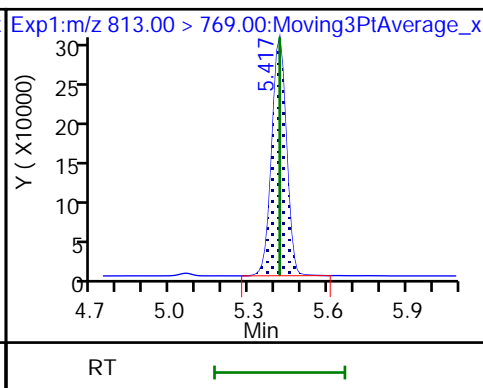
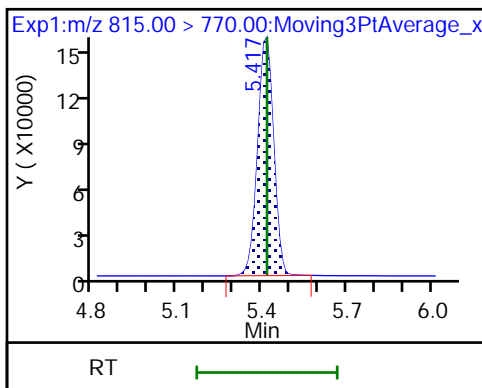
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

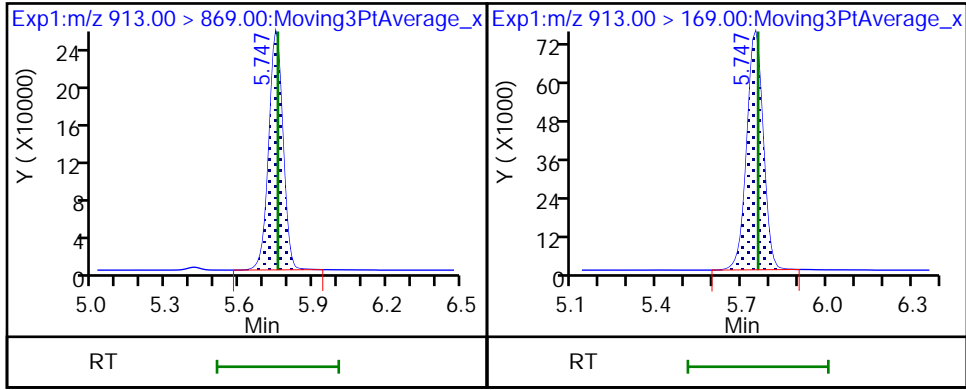
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid (M)



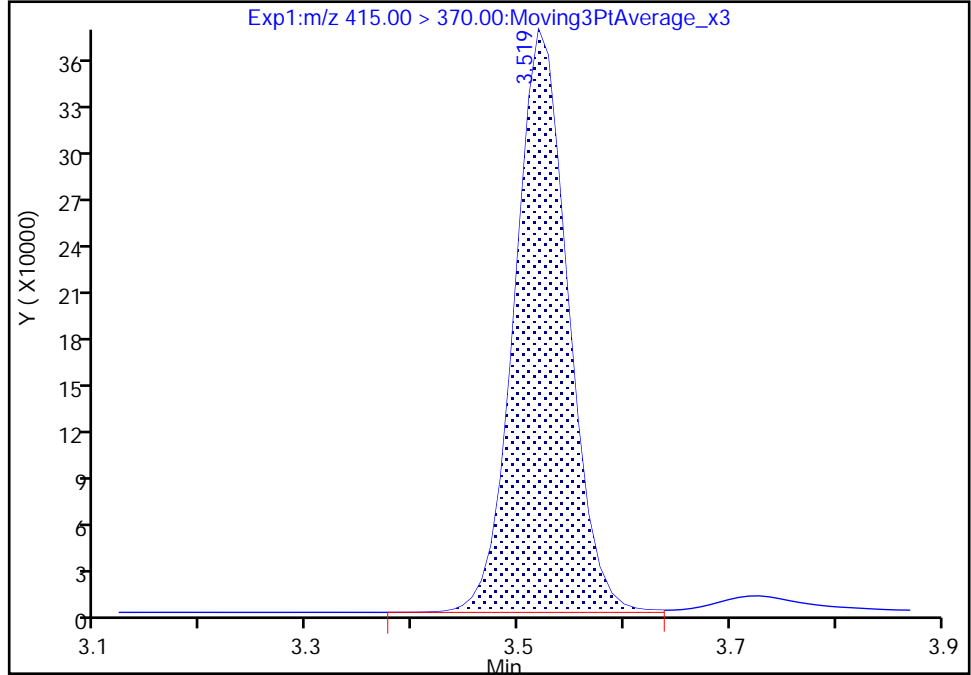
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 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

* 62 13C2 PFOA, CAS: STL00623
Signal: 1

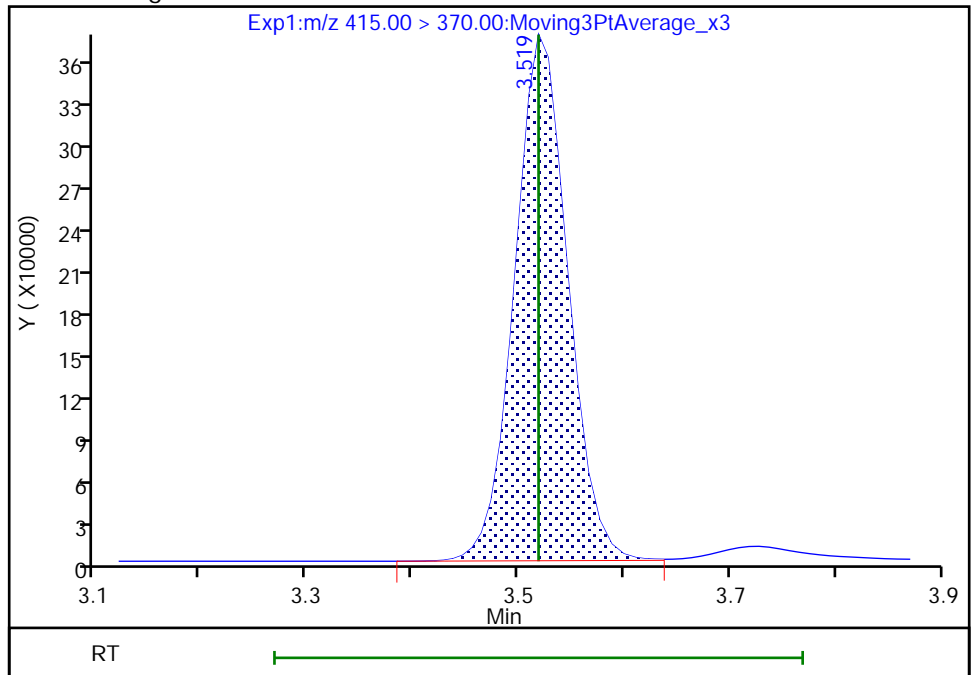
RT: 3.52
Area: 1297479
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1292520
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 11:50:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

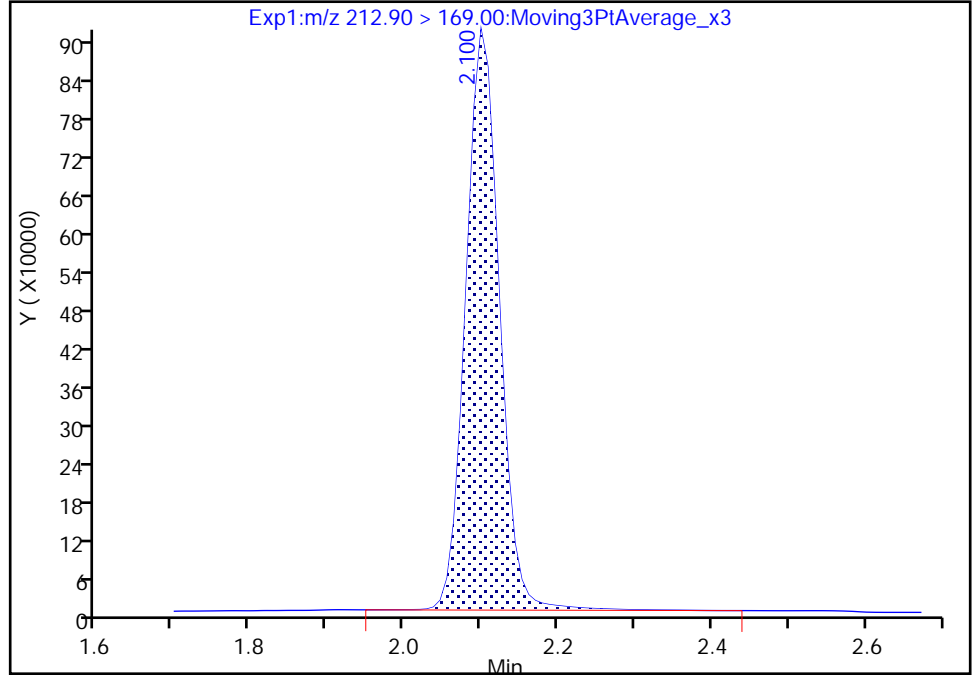
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

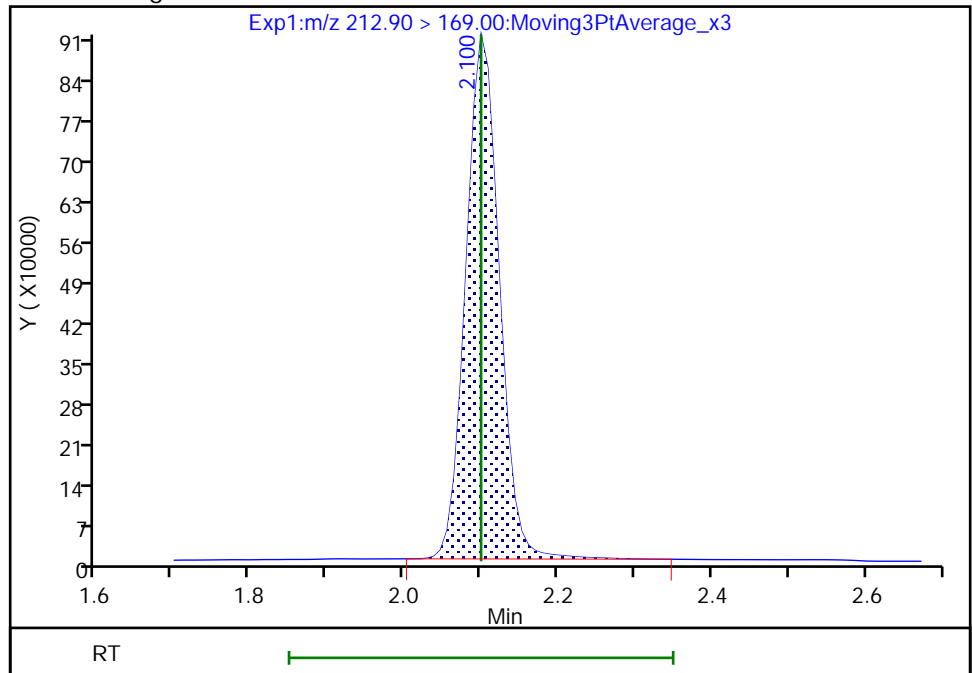
RT: 2.10
Area: 2764694
Amount: 2.381069
Amount Units: ng/ml

Processing Integration Results



RT: 2.10
Area: 2754482
Amount: 2.372274
Amount Units: ng/ml

Manual Integration Results



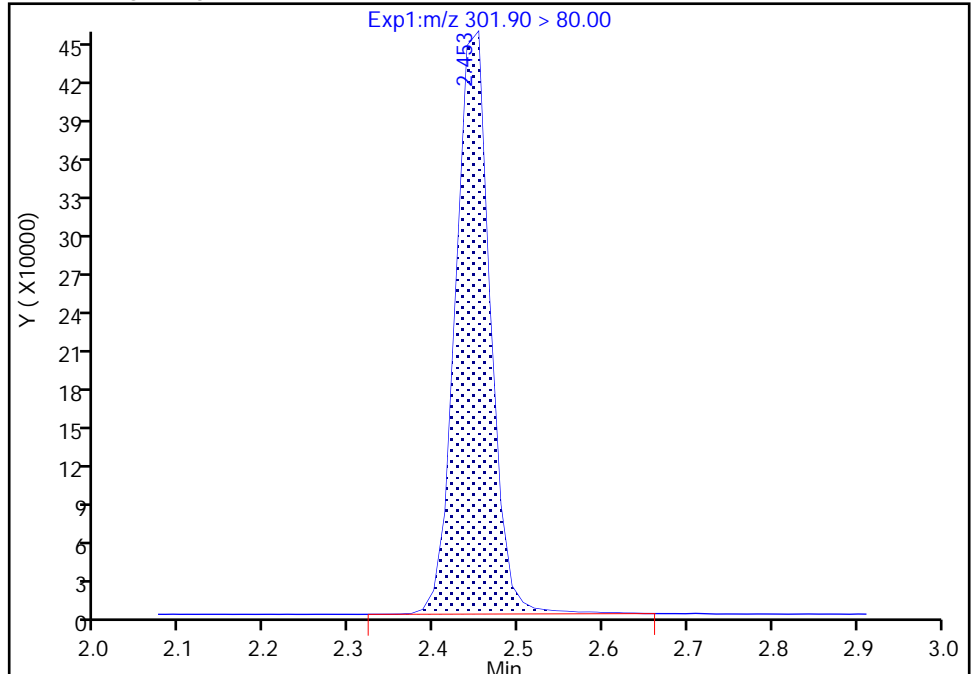
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 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

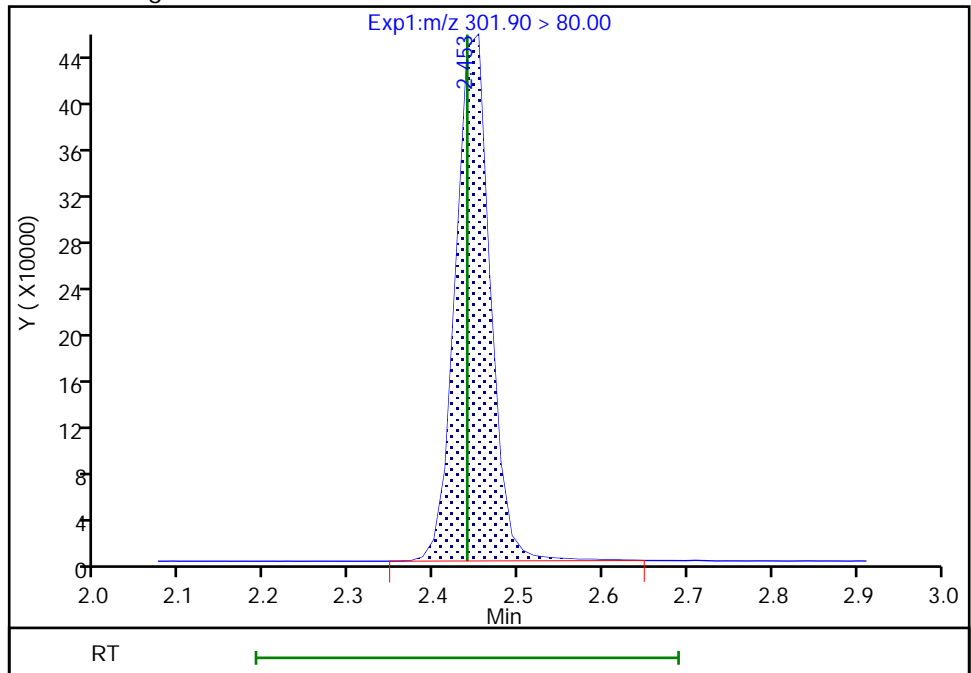
RT: 2.45
Area: 1284662
Amount: 1.087235
Amount Units: ng/ml

Processing Integration Results



RT: 2.45
Area: 1284152
Amount: 1.090973
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:23:06
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

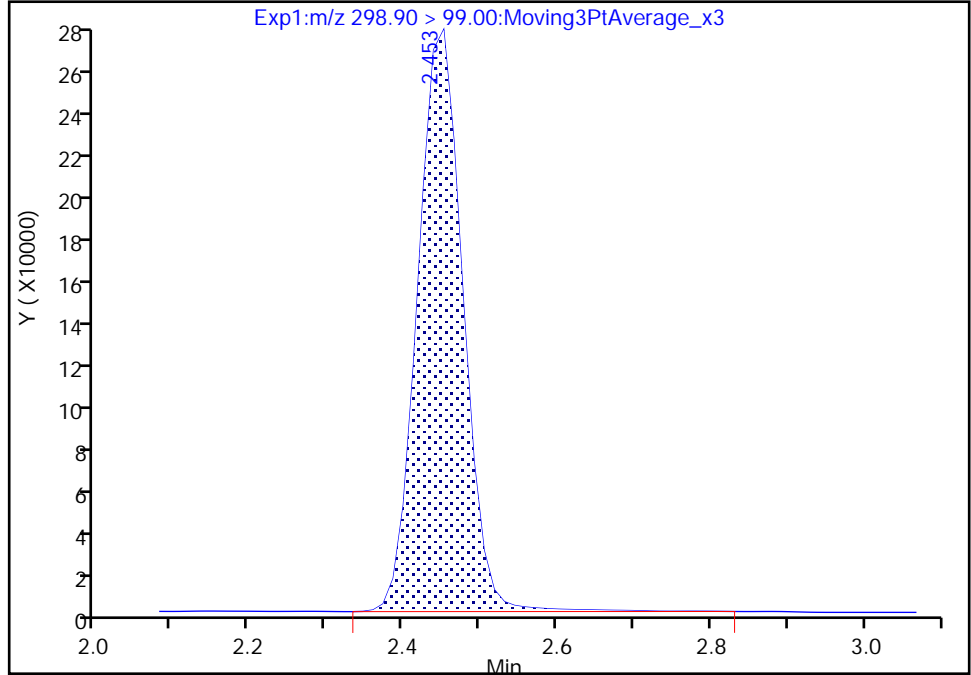
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

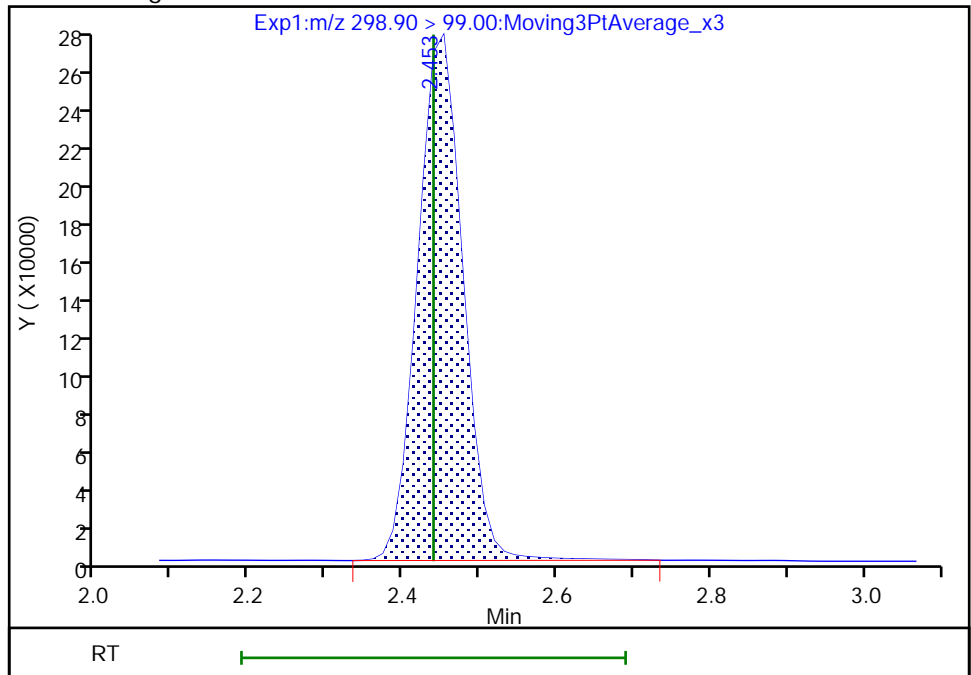
RT: 2.45
Area: 1121216
Amount: 2.103830
Amount Units: ng/ml

Processing Integration Results



RT: 2.45
Area: 1119287
Amount: 2.103830
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:26:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

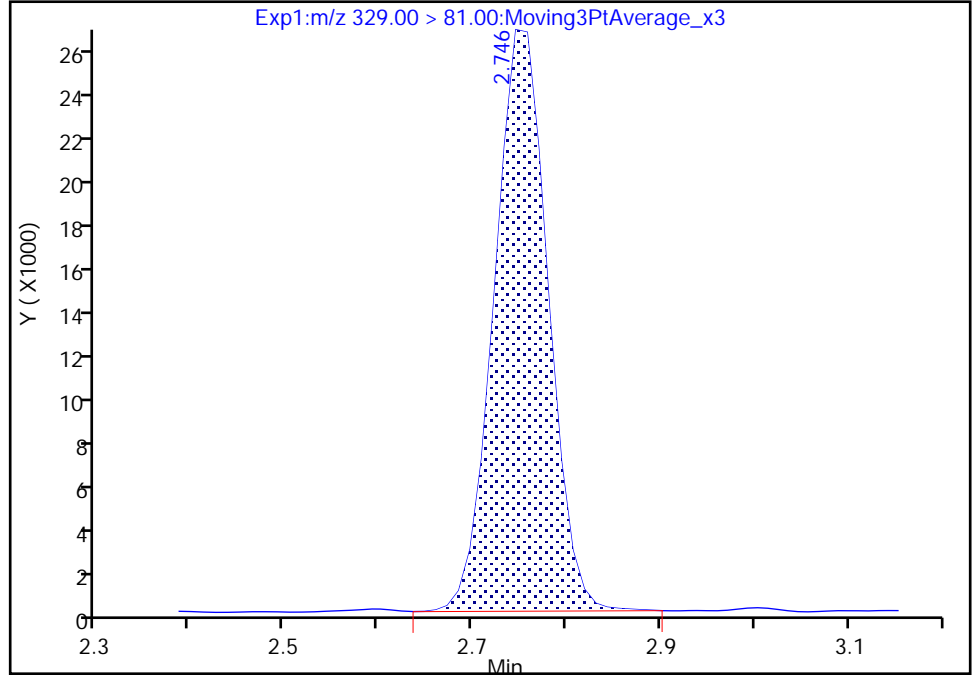
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

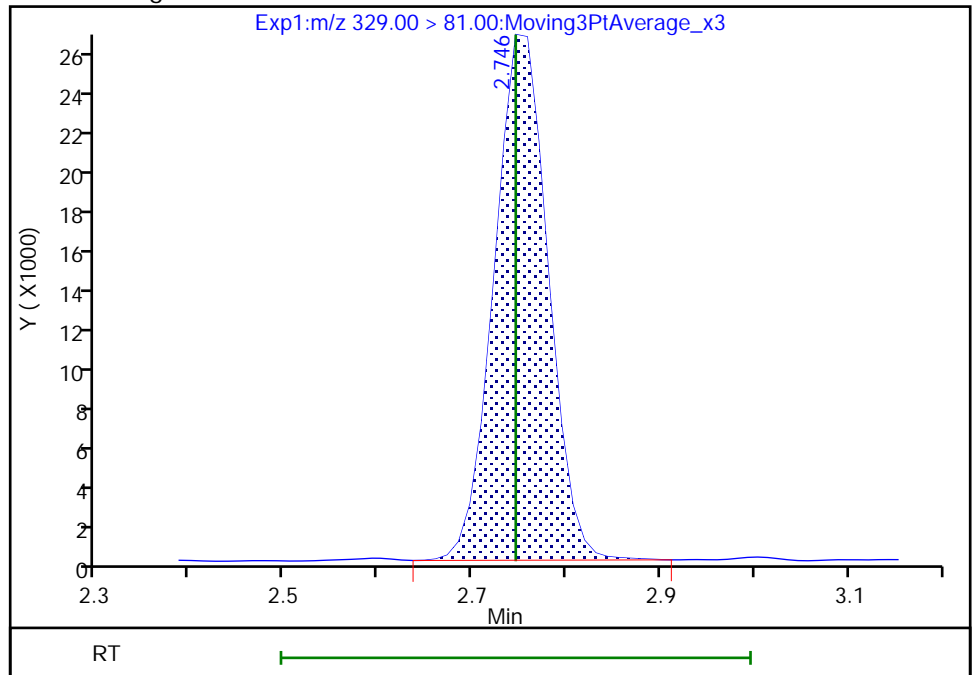
RT: 2.75
Area: 104232
Amount: 1.136467
Amount Units: ng/ml

Processing Integration Results



RT: 2.75
Area: 104259
Amount: 1.141123
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:23:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

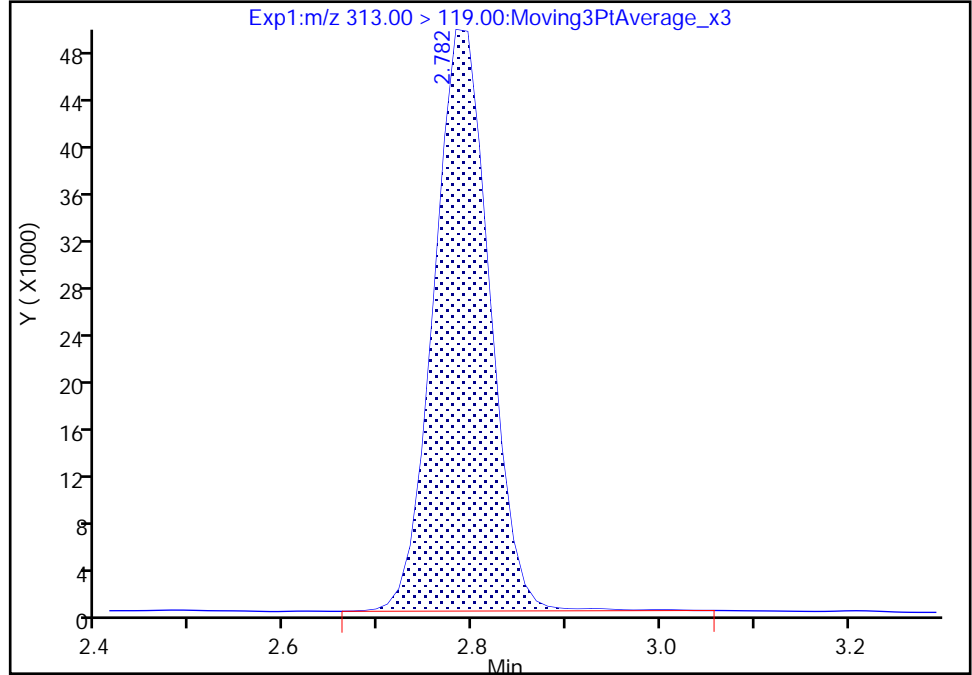
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

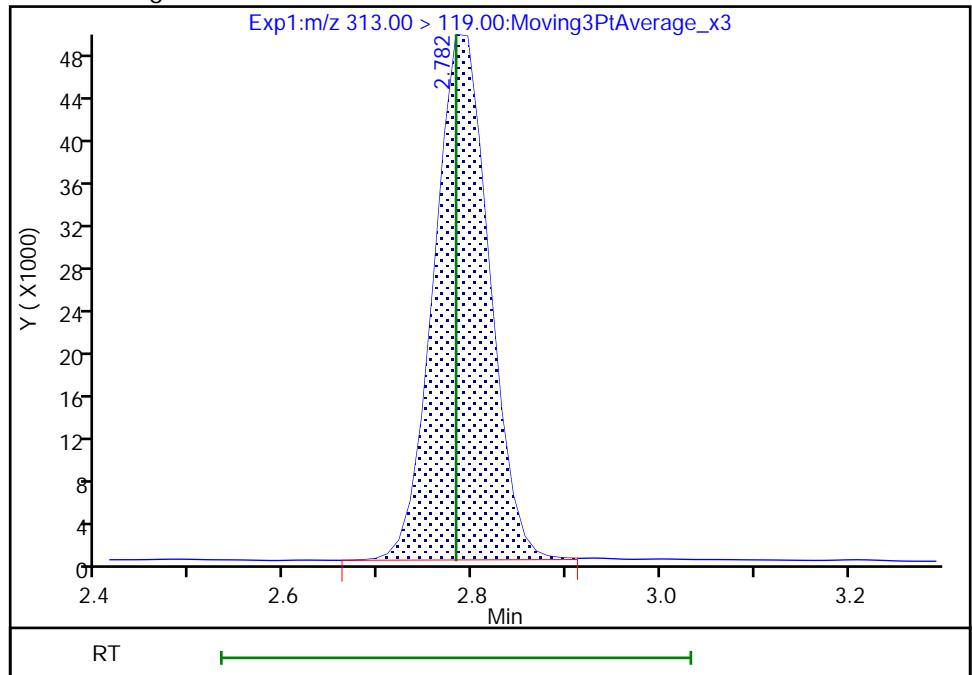
RT: 2.78
Area: 200804
Amount: 2.393091
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 200037
Amount: 2.393091
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:26:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

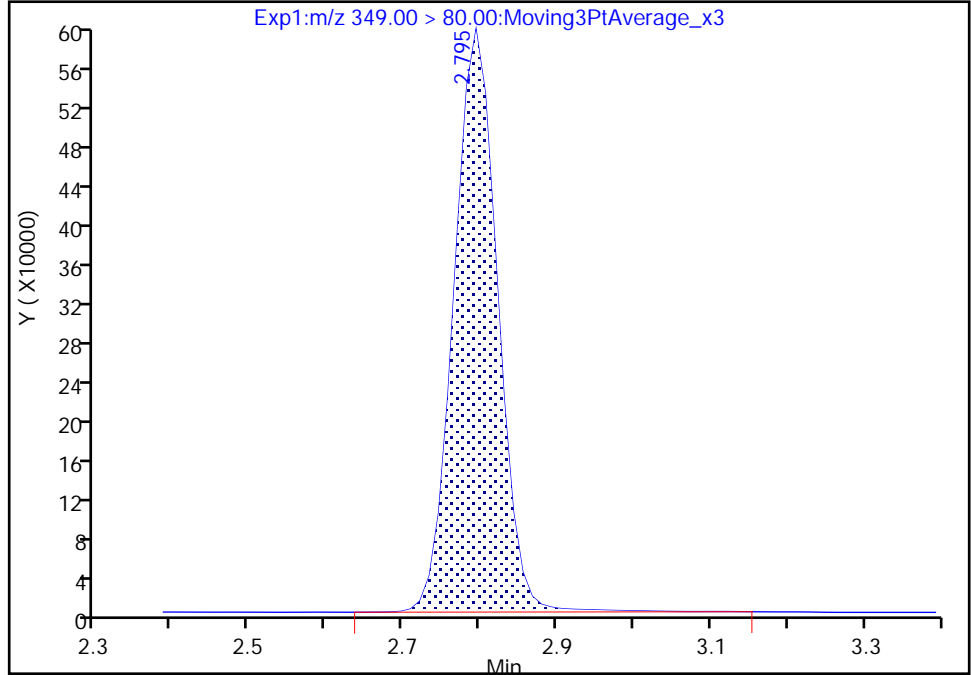
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

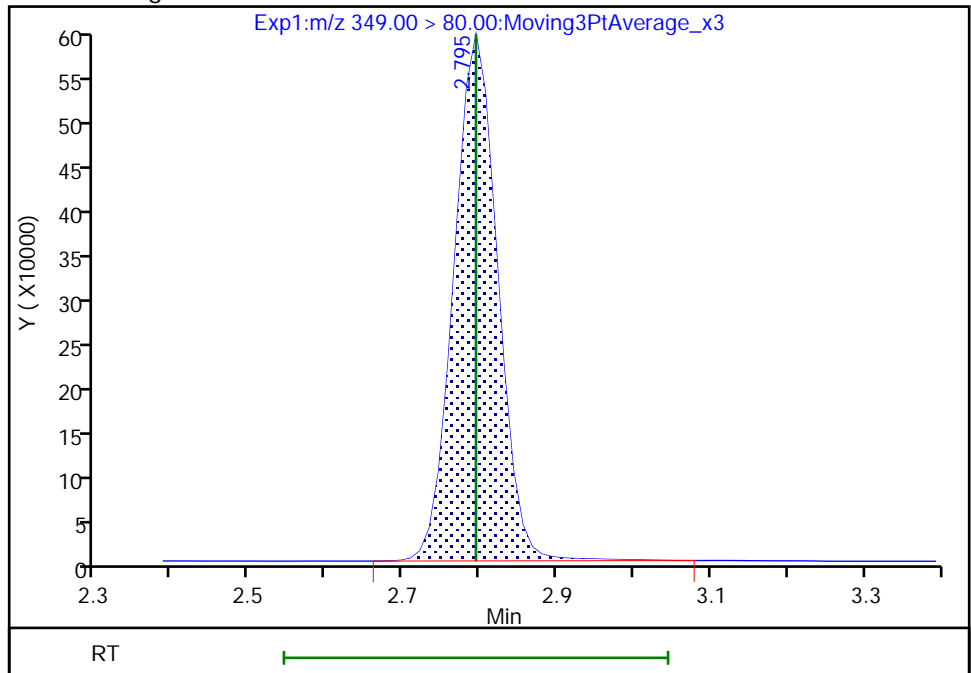
RT: 2.79
Area: 2333372
Amount: 2.283552
Amount Units: ng/ml

Processing Integration Results



RT: 2.79
Area: 2329298
Amount: 2.279565
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

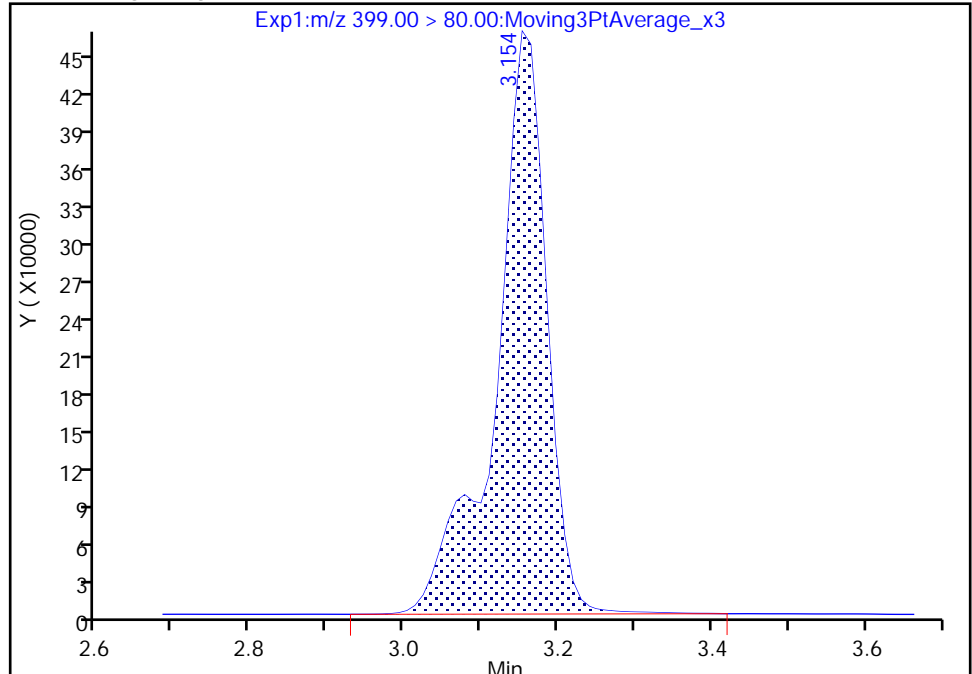
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

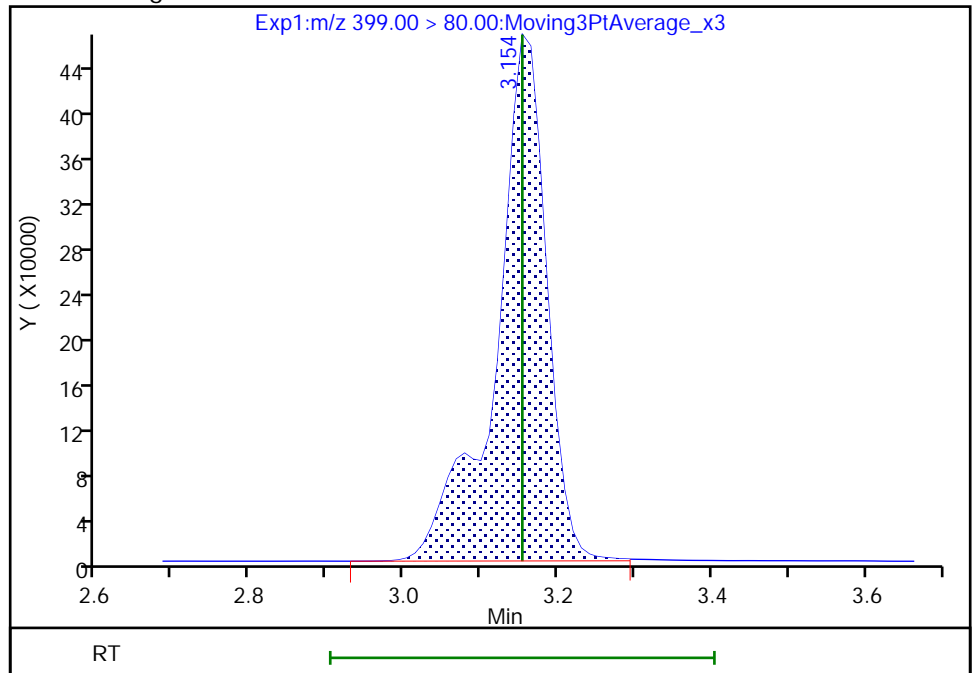
RT: 3.15
Area: 2132644
Amount: 2.292252
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 2128075
Amount: 2.287341
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:26:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

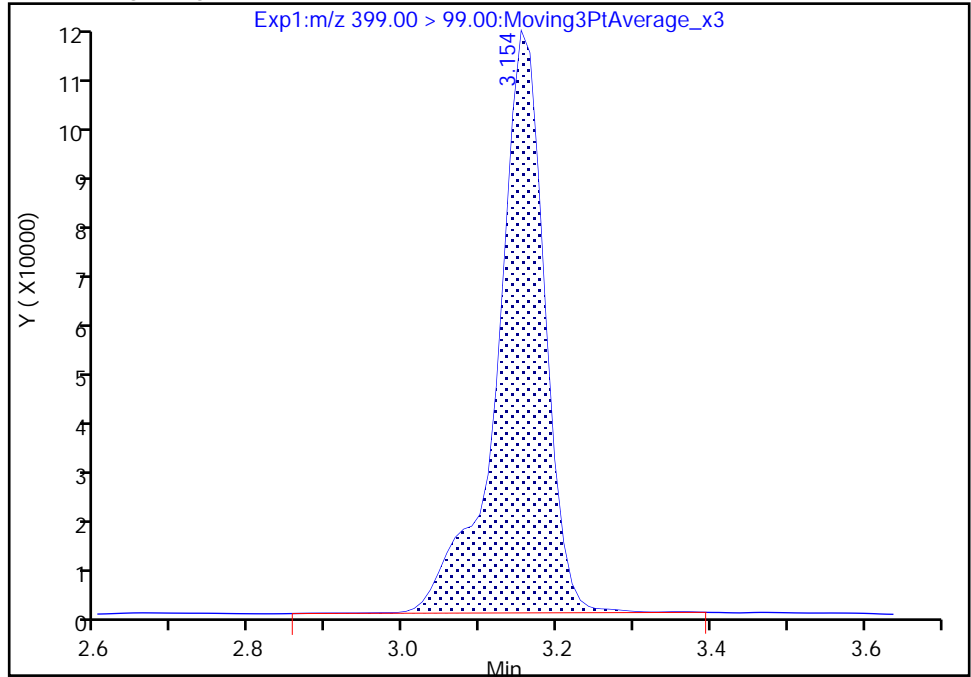
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

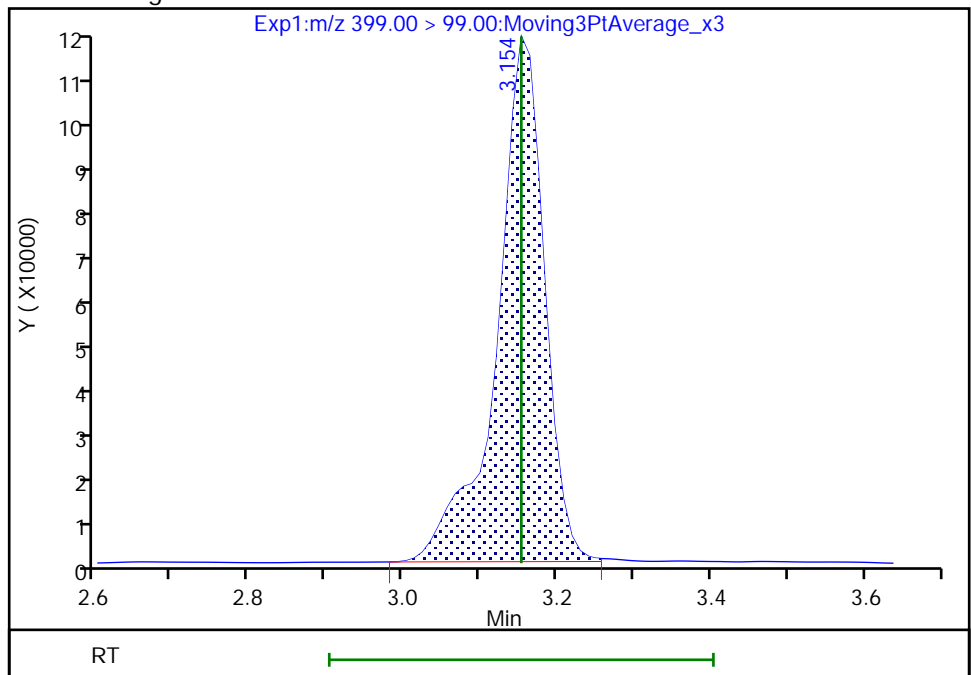
RT: 3.15
Area: 485966
Amount: 2.292252
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 483141
Amount: 2.287341
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:27:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

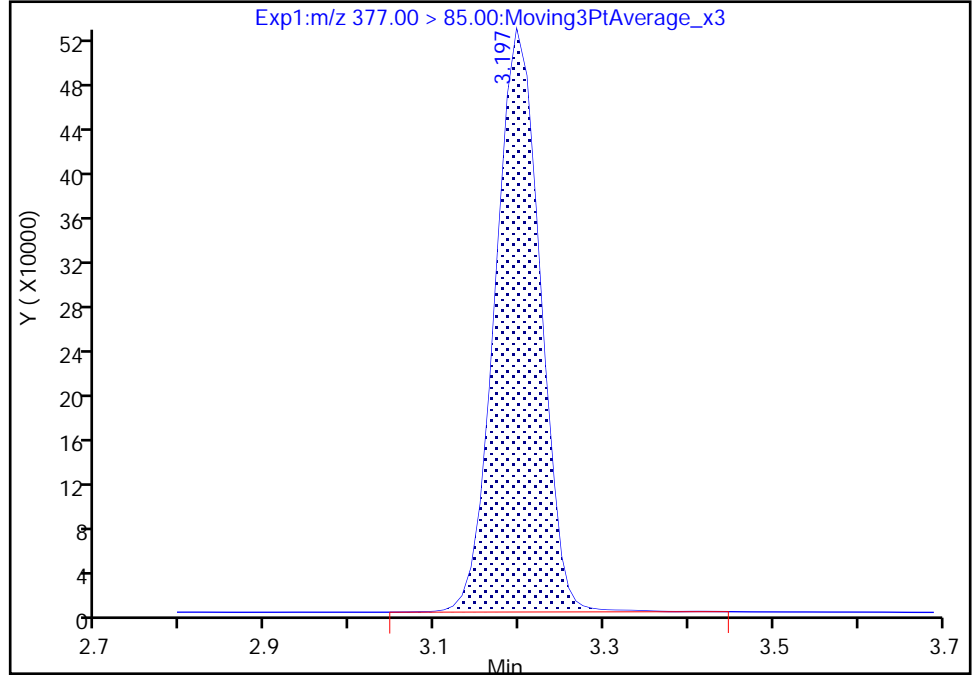
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 2

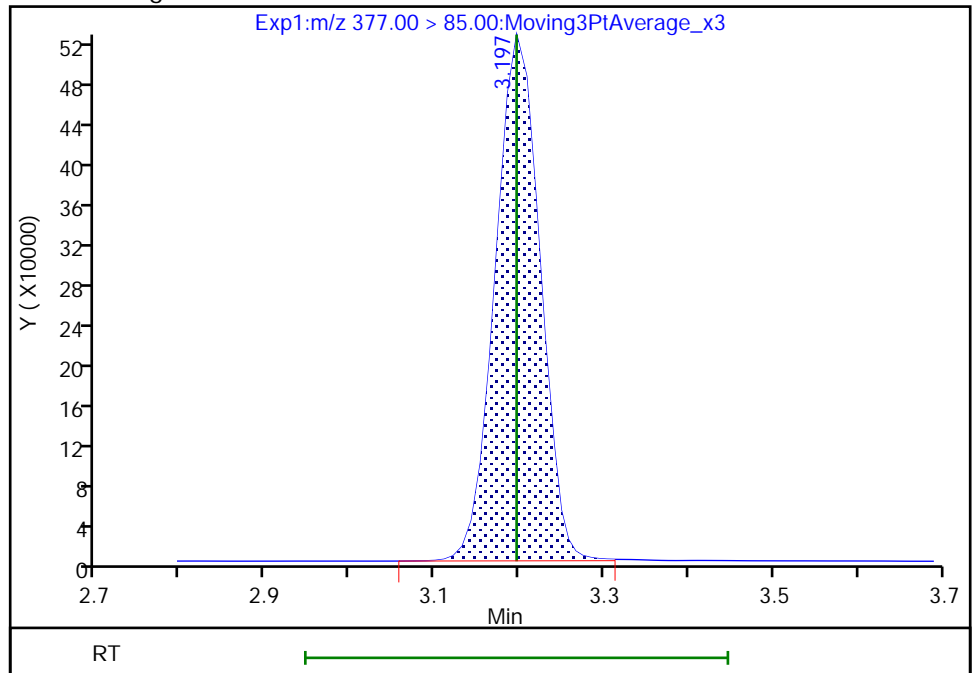
RT: 3.20
Area: 1940709
Amount: 2.348371
Amount Units: ng/ml

Processing Integration Results



RT: 3.20
Area: 1936114
Amount: 2.348371
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:27:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

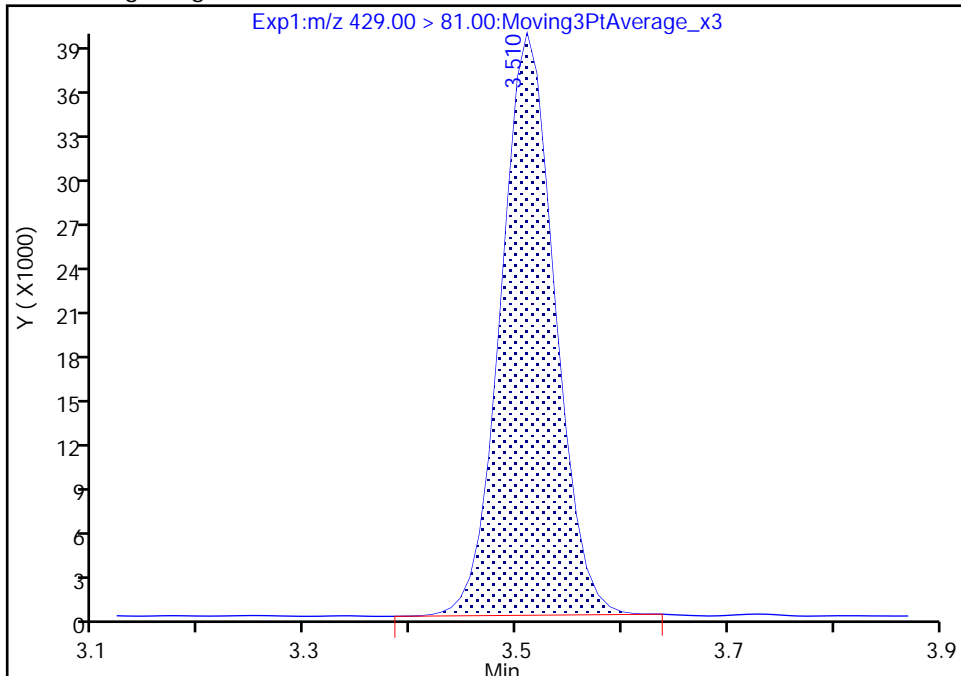
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 12 M2-6:2 FTS, CAS: STL02279

Signal: 1

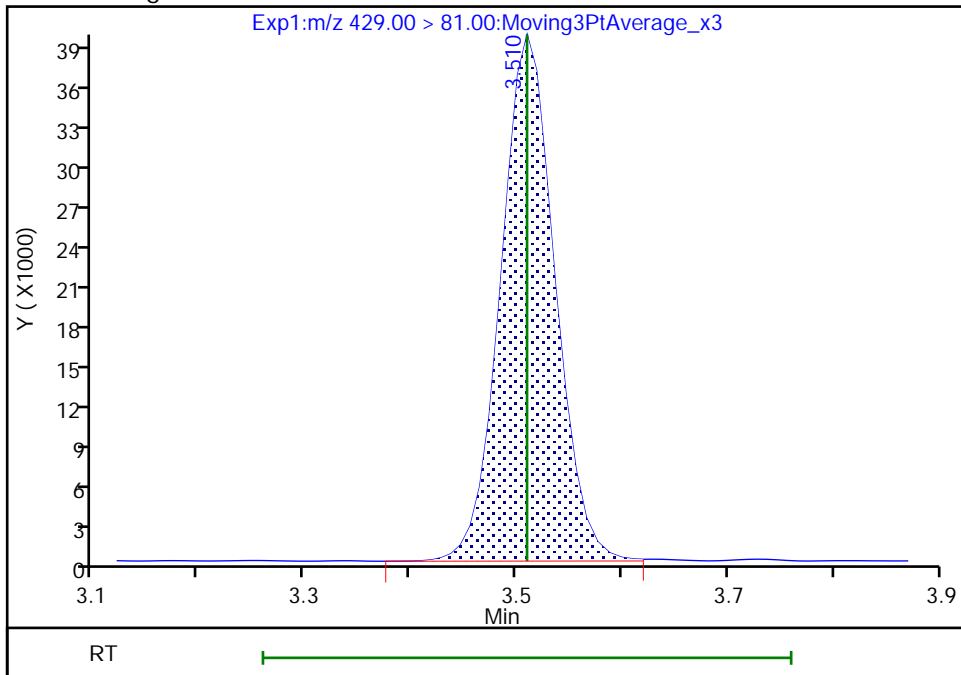
RT: 3.51
Area: 138056
Amount: 1.136228
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 138861
Amount: 1.147238
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:23:38
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

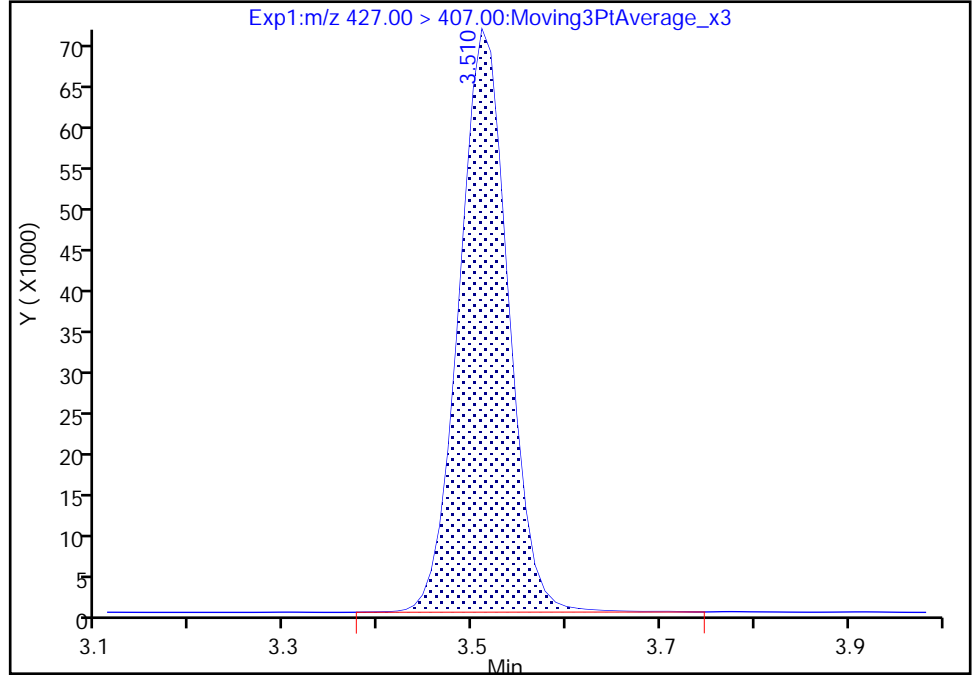
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

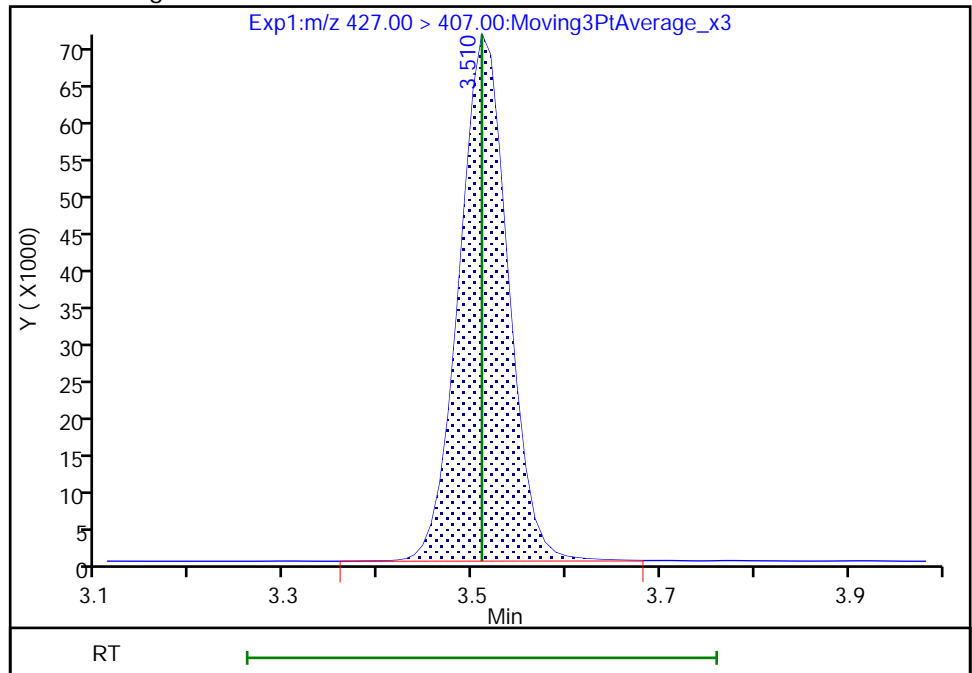
RT: 3.51
Area: 256500
Amount: 2.445128
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 256481
Amount: 2.444947
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:28:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

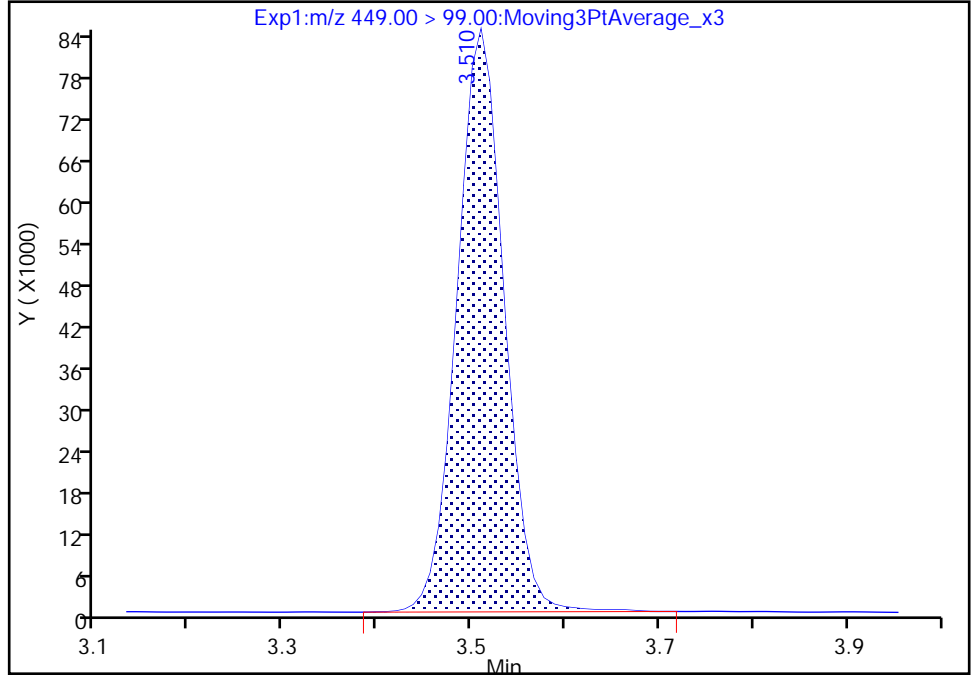
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

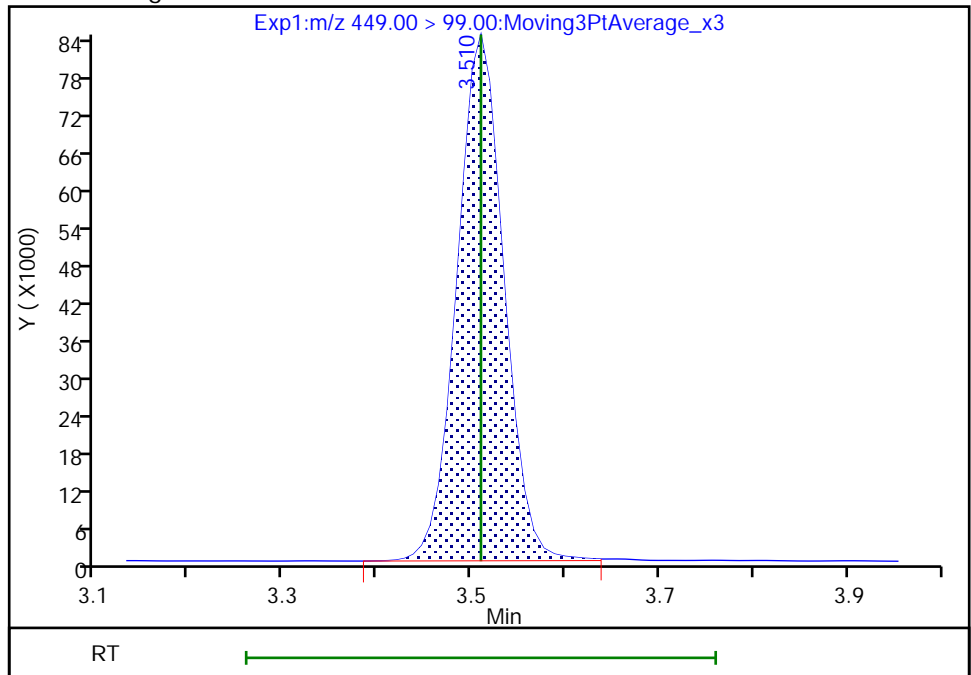
RT: 3.51
Area: 293285
Amount: 2.410080
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 292674
Amount: 2.410080
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:27:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

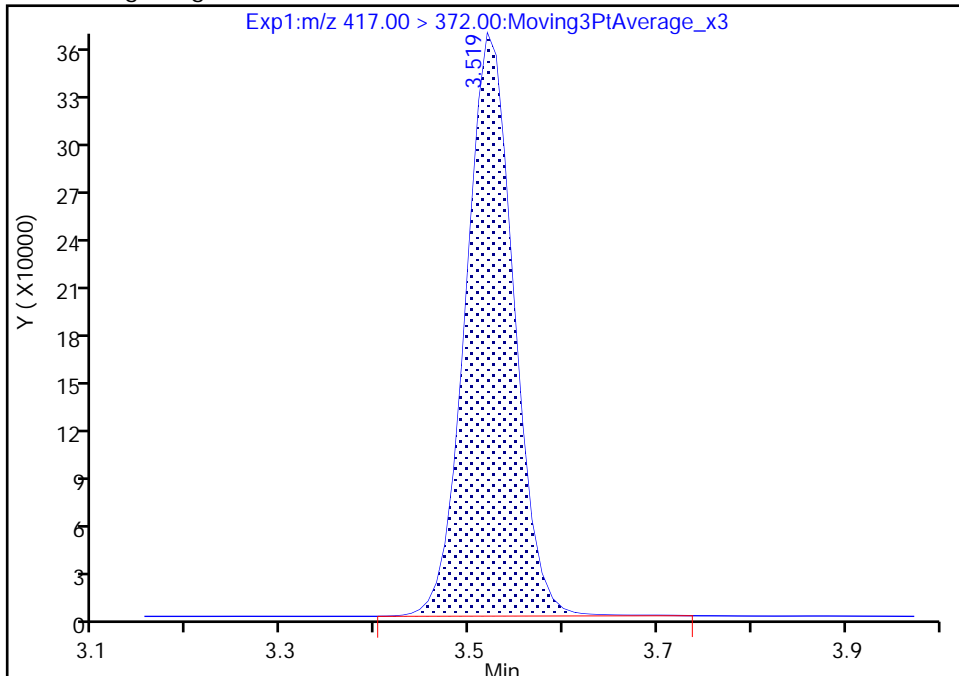
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

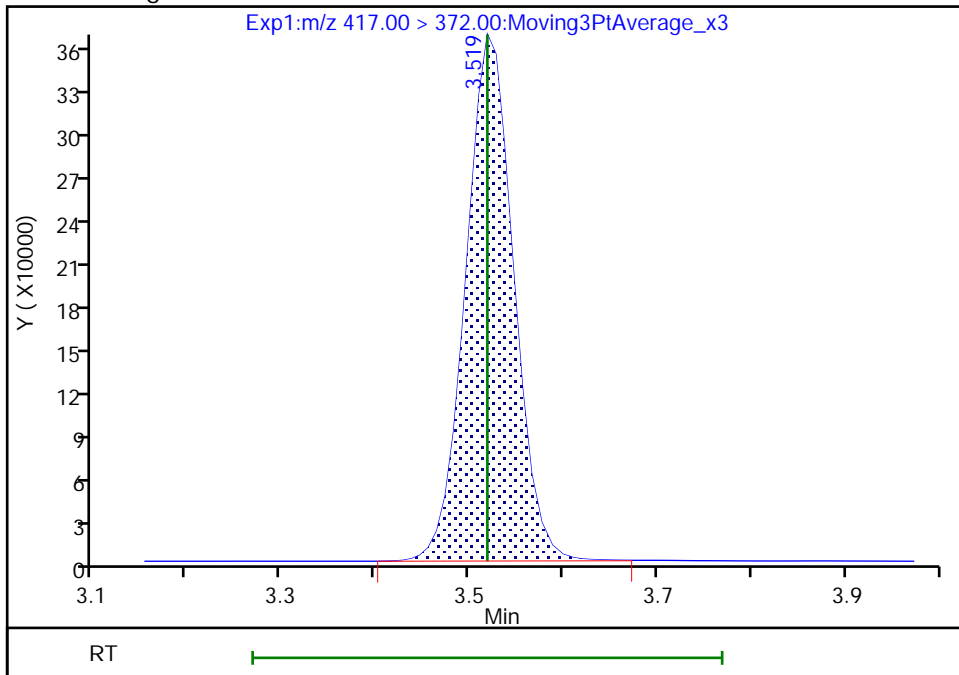
RT: 3.52
Area: 1284293
Amount: 1.236193
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1283533
Amount: 1.240201
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:23:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

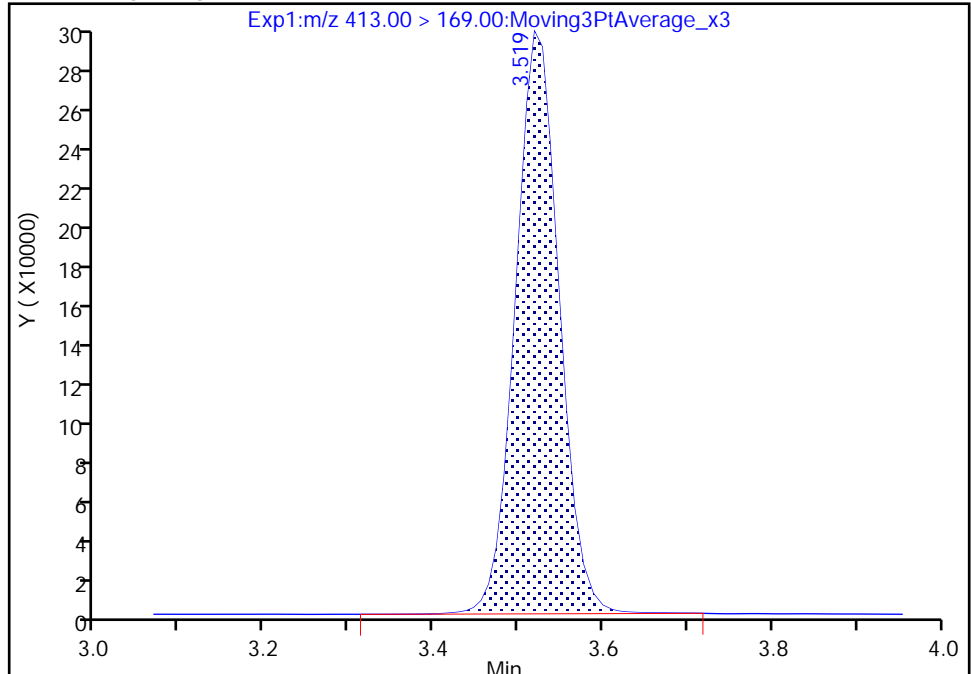
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

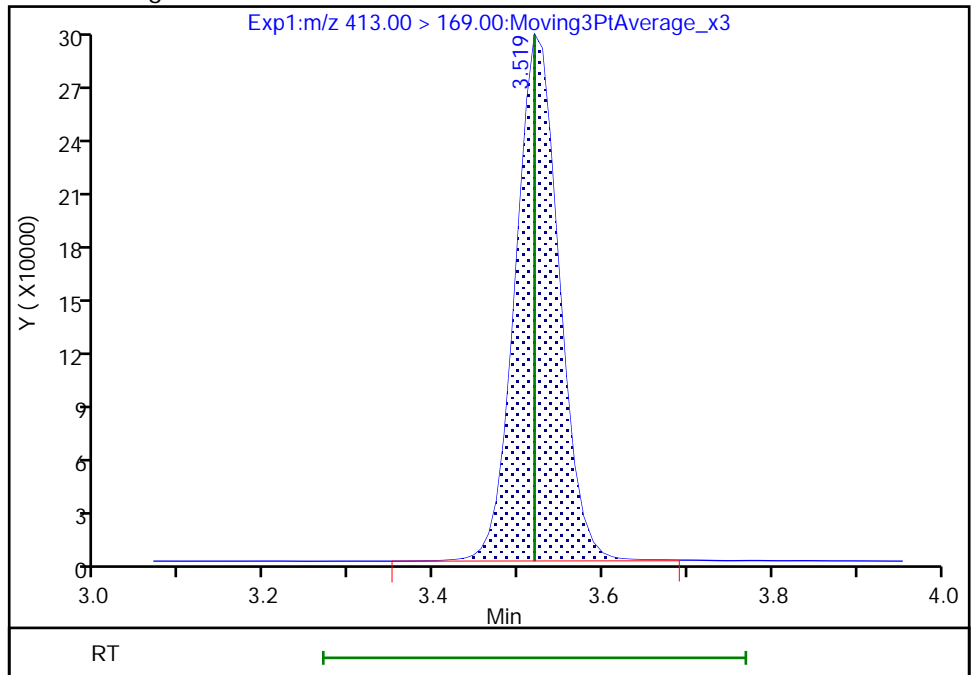
RT: 3.52
Area: 1053916
Amount: 2.400020
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1055996
Amount: 2.400020
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:28:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

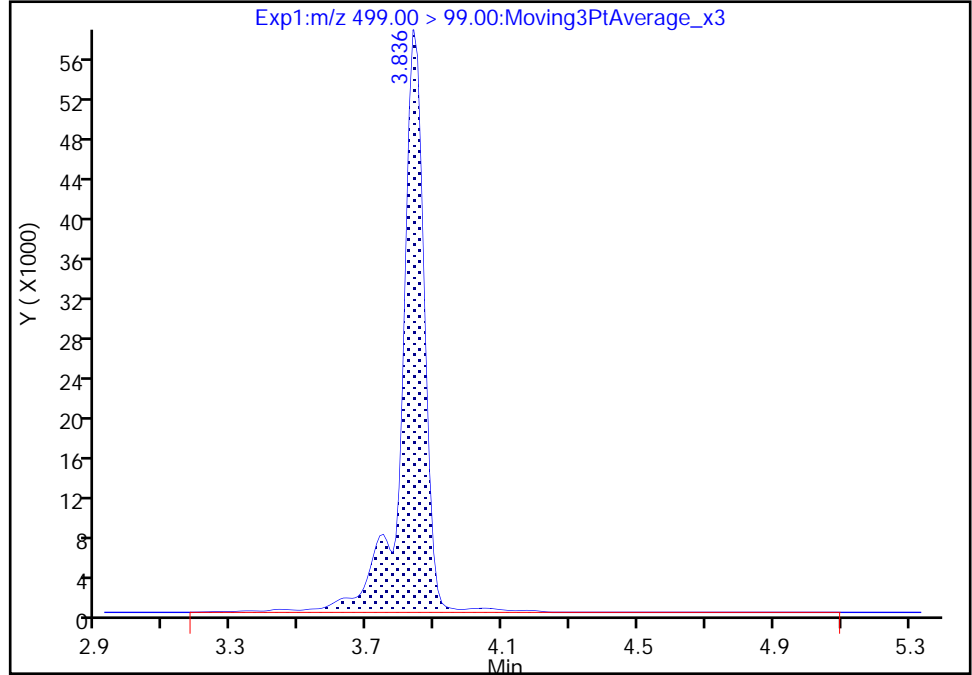
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

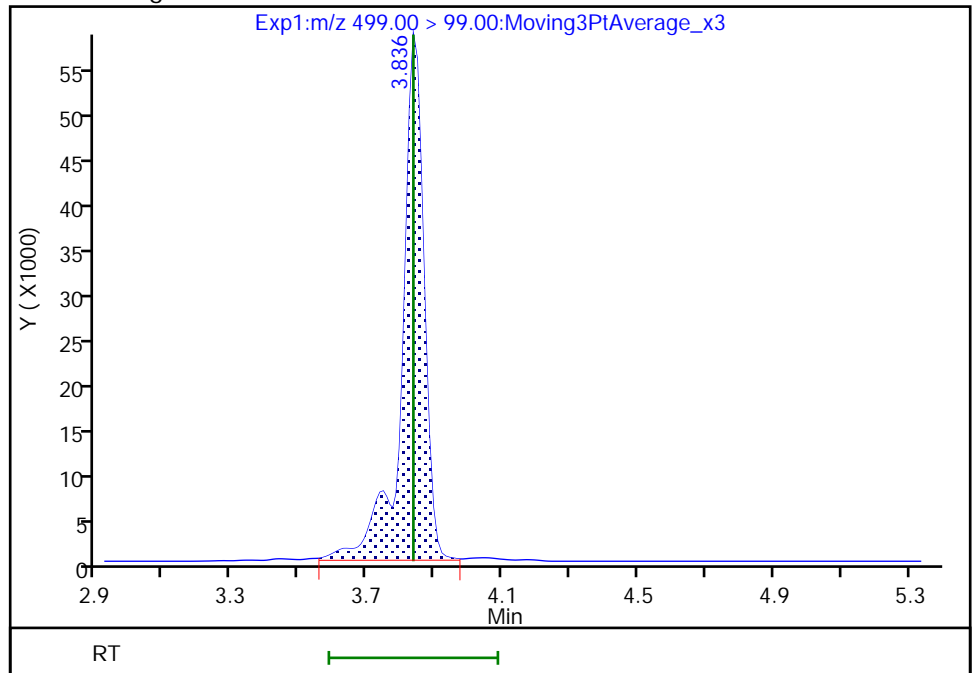
RT: 3.84
Area: 273581
Amount: 2.315787
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 264128
Amount: 2.275833
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

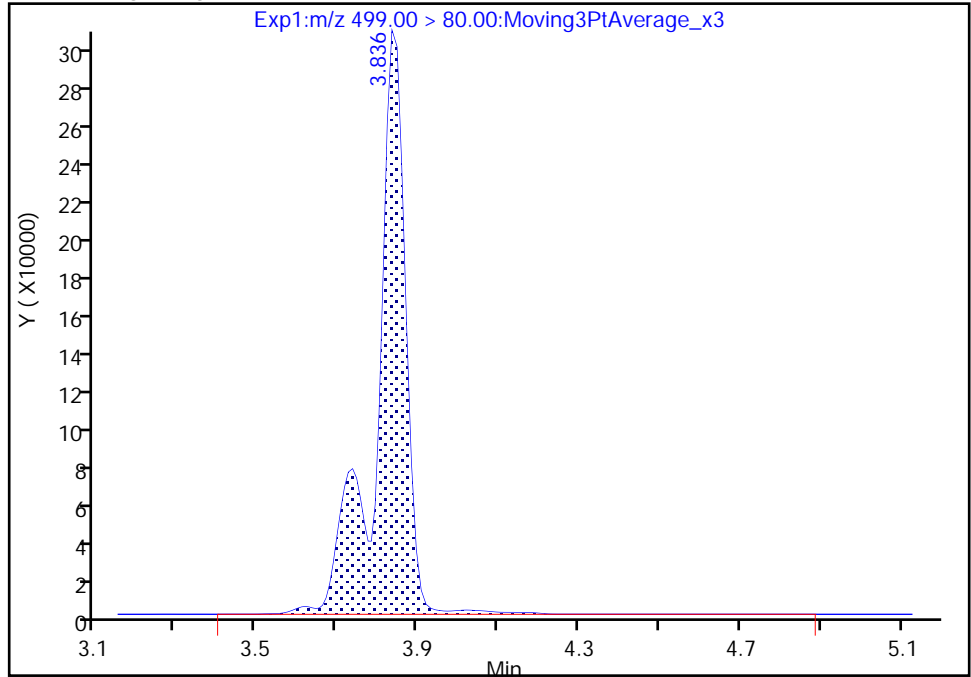
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

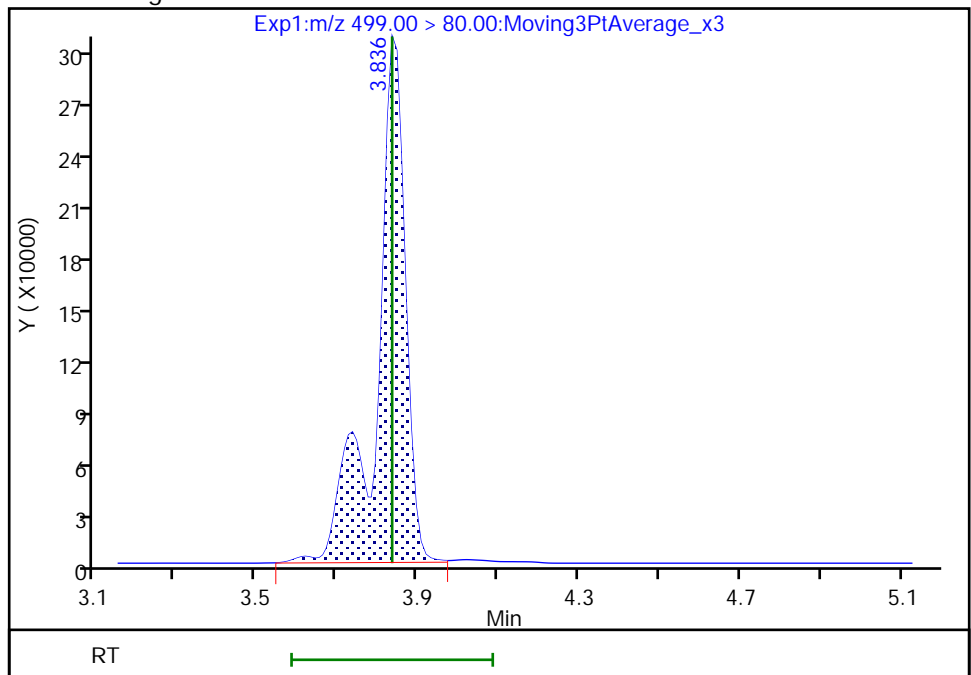
RT: 3.84
Area: 1540660
Amount: 2.315787
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 1514079
Amount: 2.275833
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

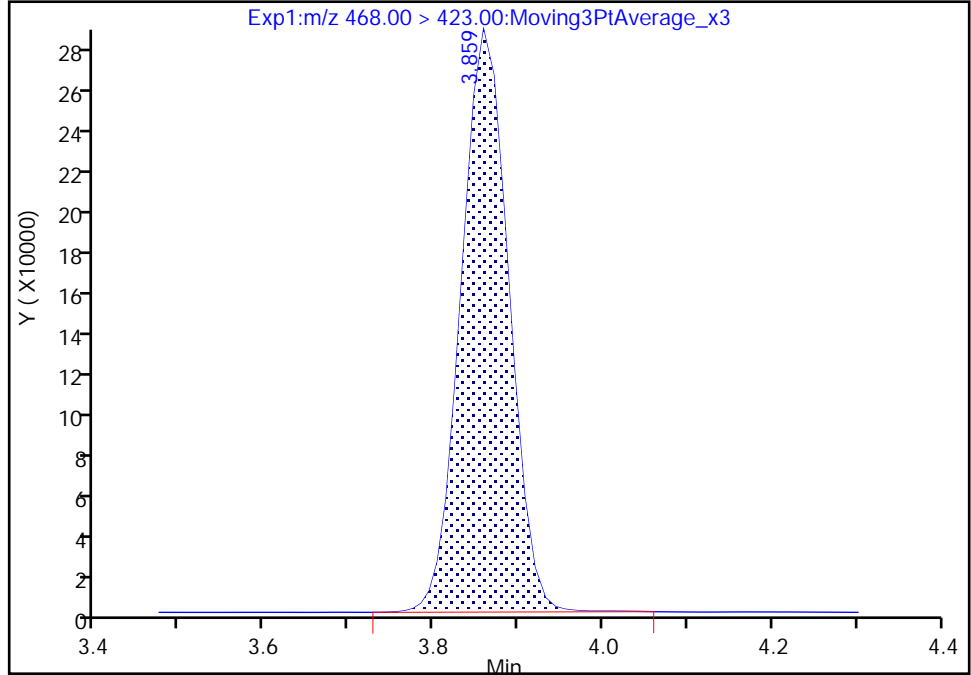
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

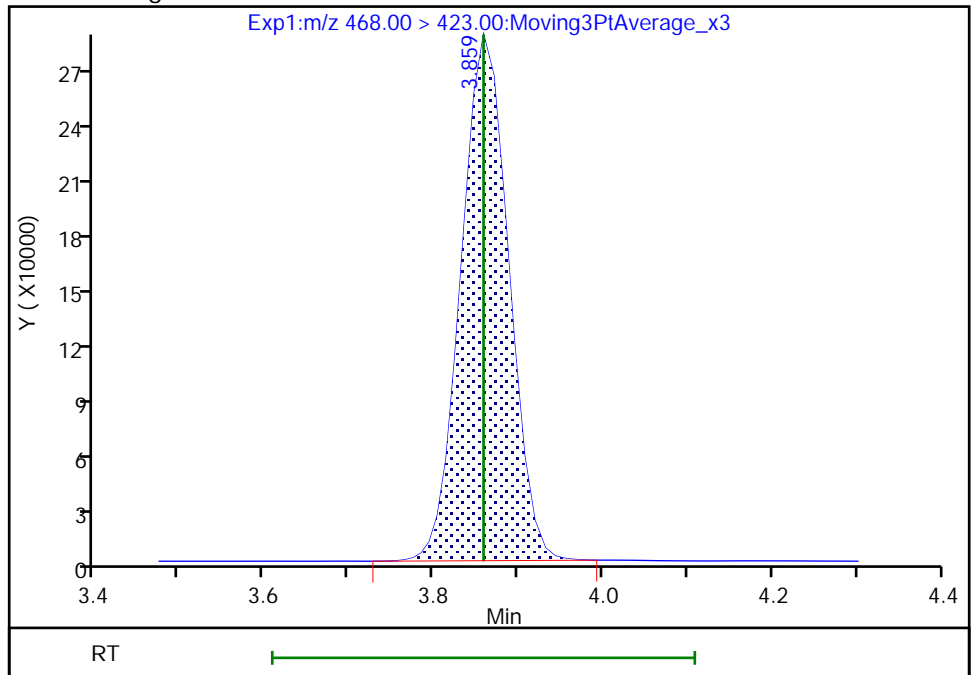
RT: 3.86
Area: 1114724
Amount: 1.164535
Amount Units: ng/ml

Processing Integration Results



RT: 3.86
Area: 1111452
Amount: 1.165572
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:23:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

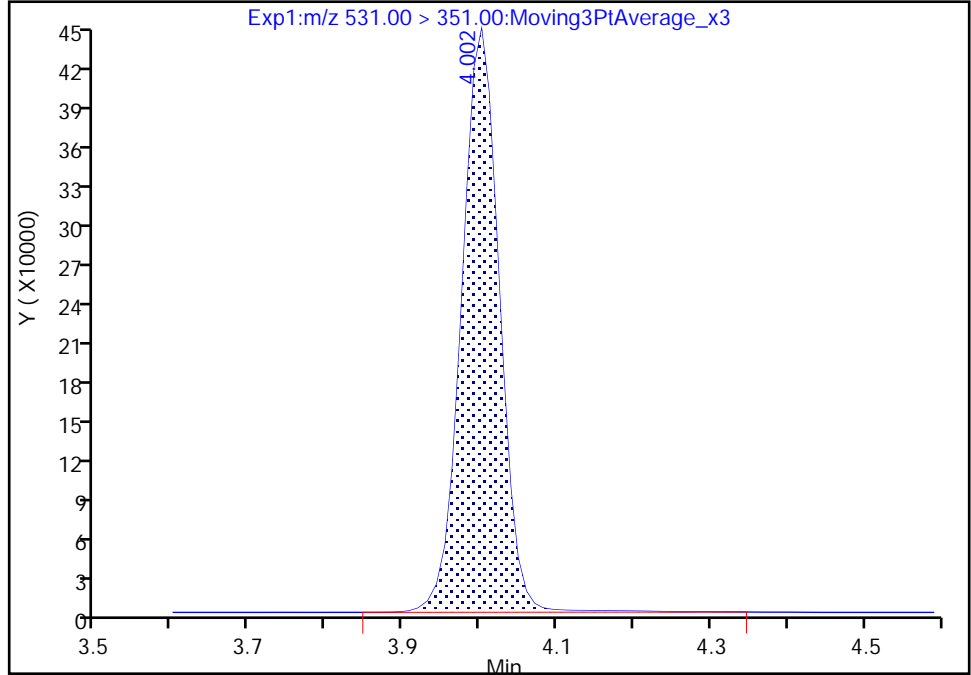
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

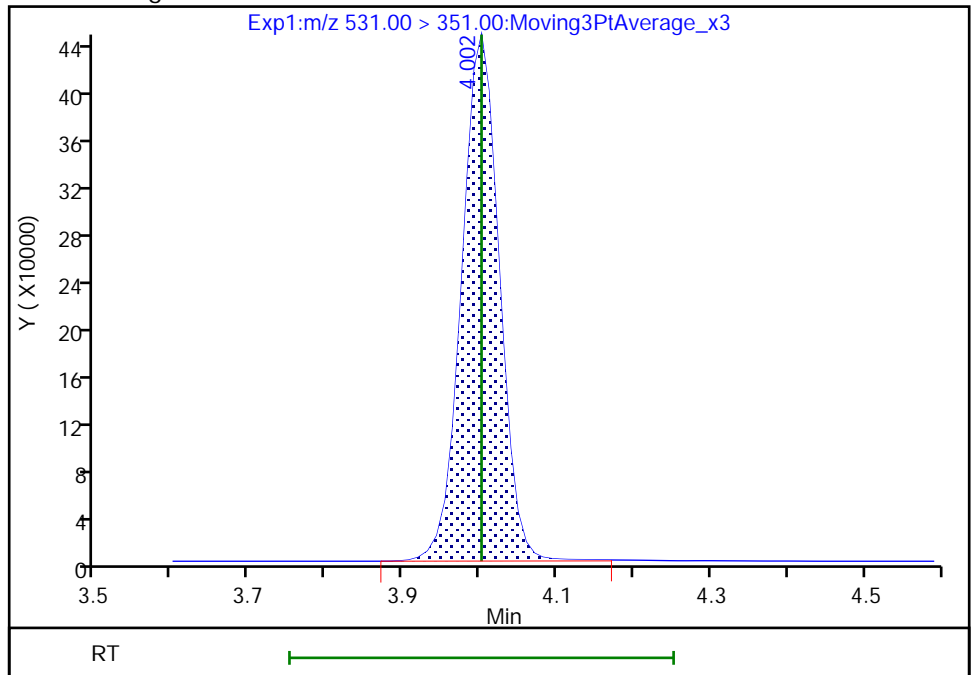
RT: 4.00
Area: 1516653
Amount: 2.369538
Amount Units: ng/ml

Processing Integration Results



RT: 4.00
Area: 1511729
Amount: 2.361845
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:29:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

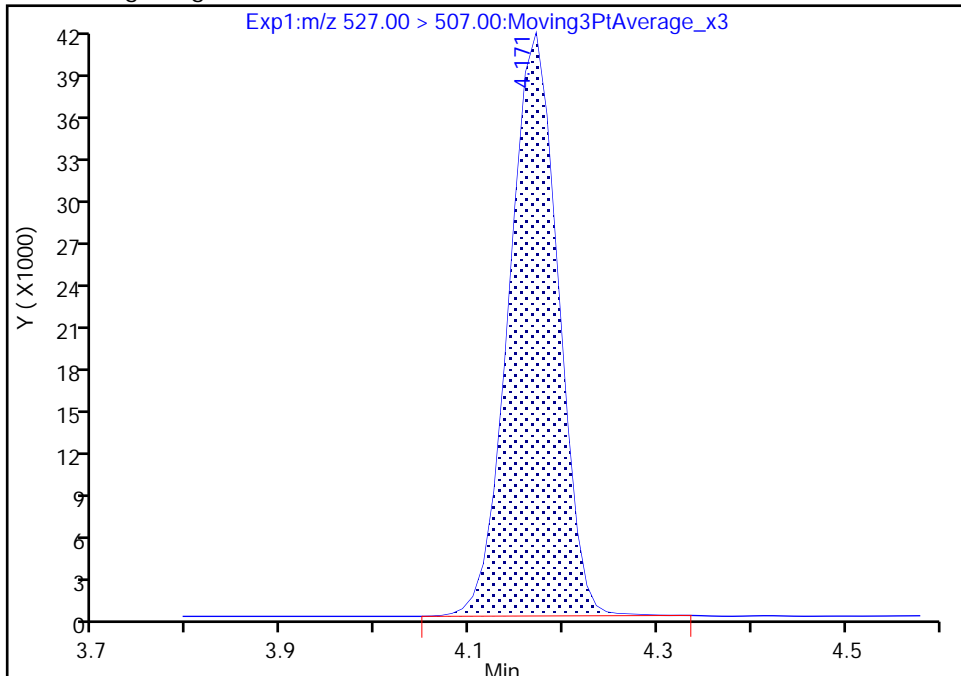
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

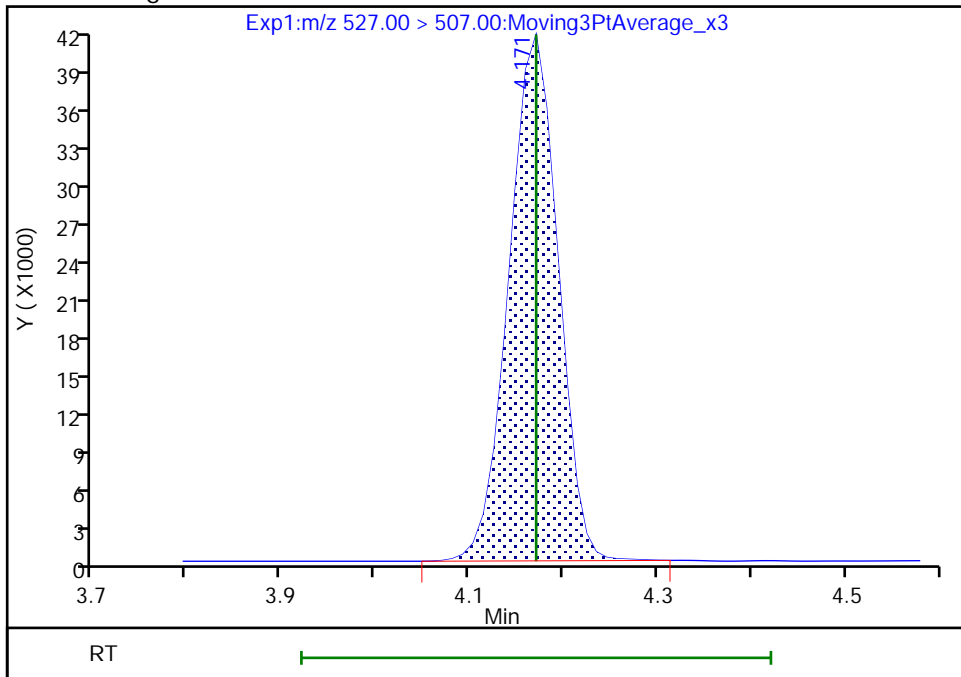
RT: 4.17
Area: 150942
Amount: 2.242020
Amount Units: ng/ml

Processing Integration Results



RT: 4.17
Area: 150895
Amount: 2.241322
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:29:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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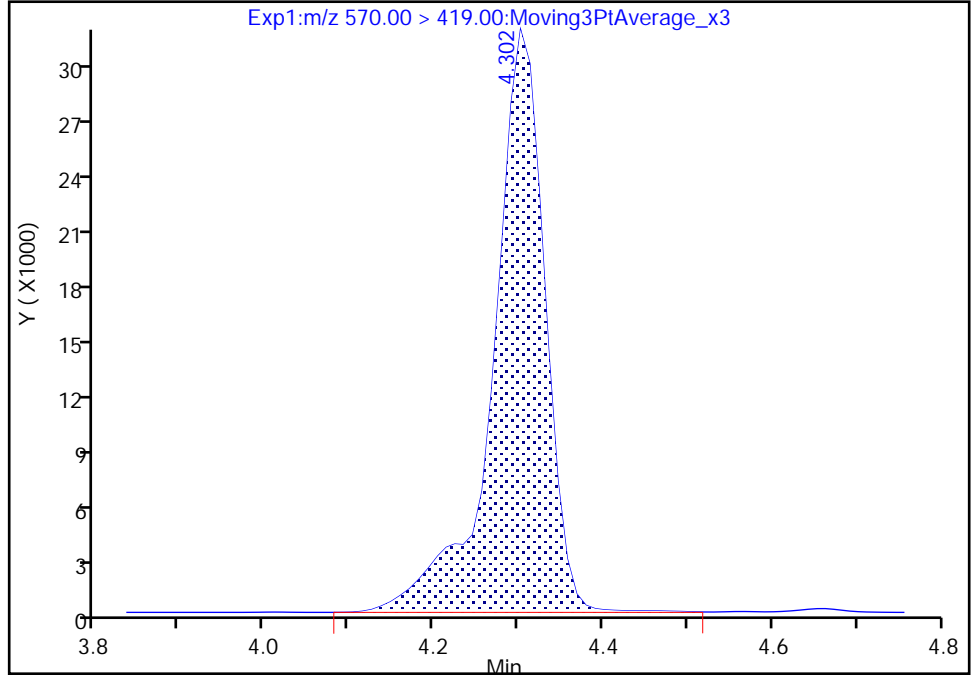
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

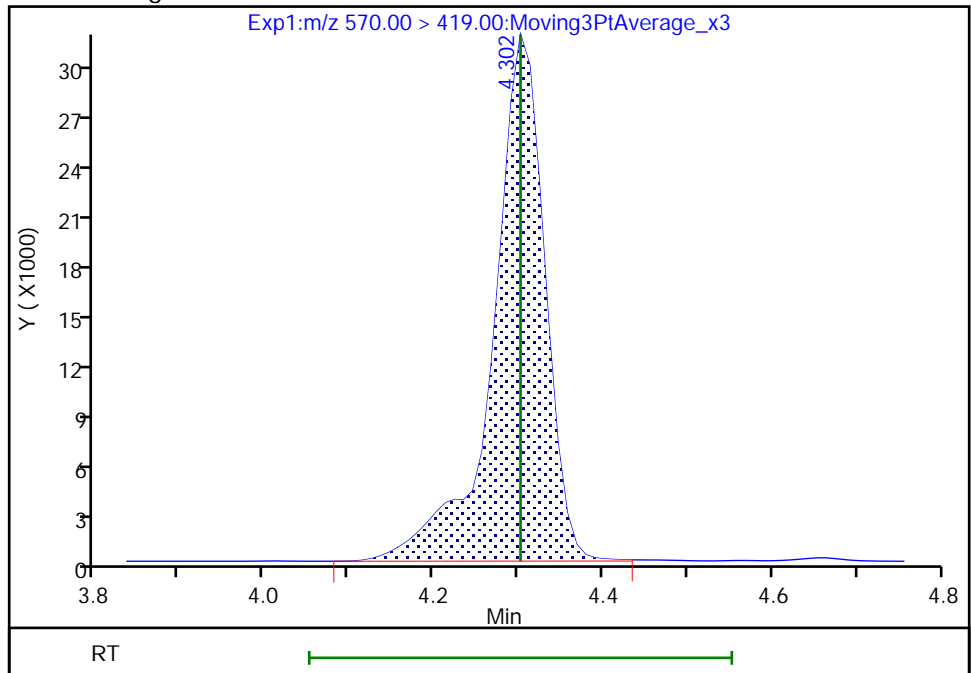
RT: 4.30
Area: 135422
Amount: 2.493989
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 134978
Amount: 2.485812
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:30:05
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

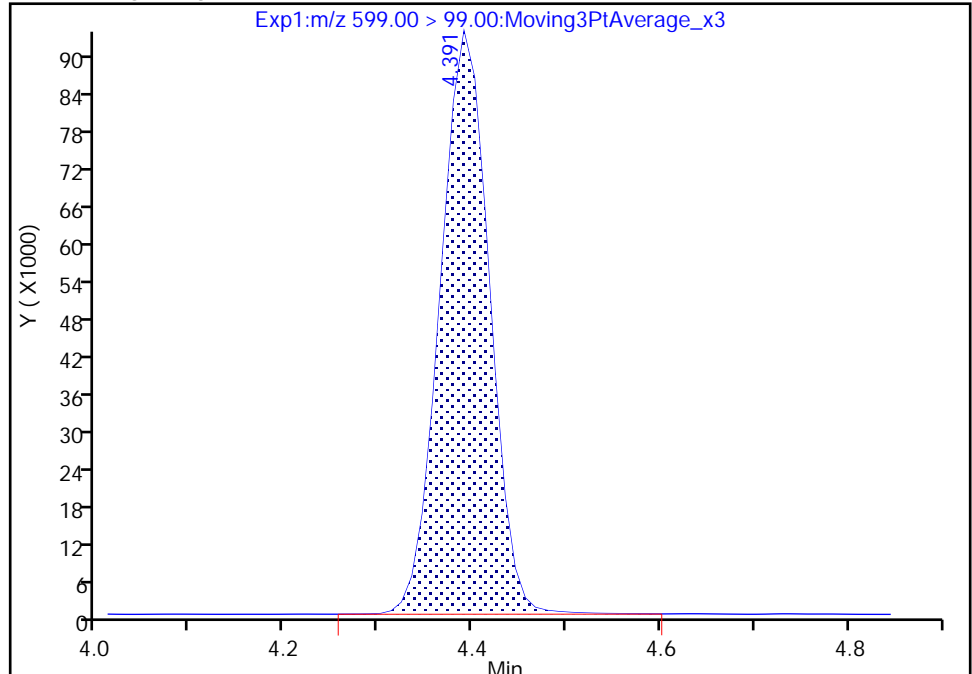
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

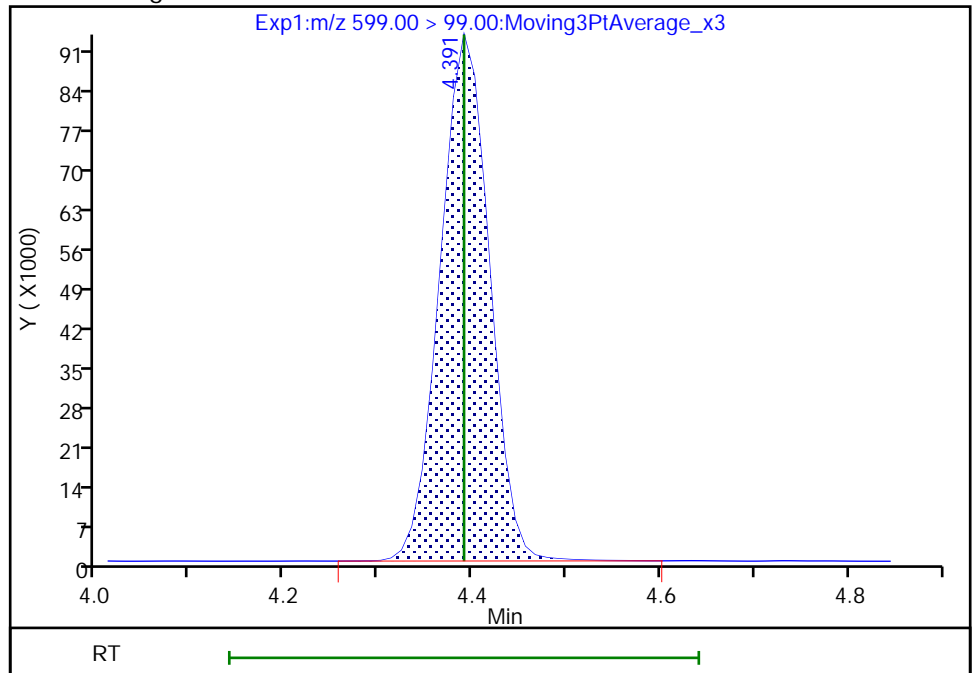
RT: 4.39
Area: 339268
Amount: 2.333878
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 338844
Amount: 2.333878
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:30:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

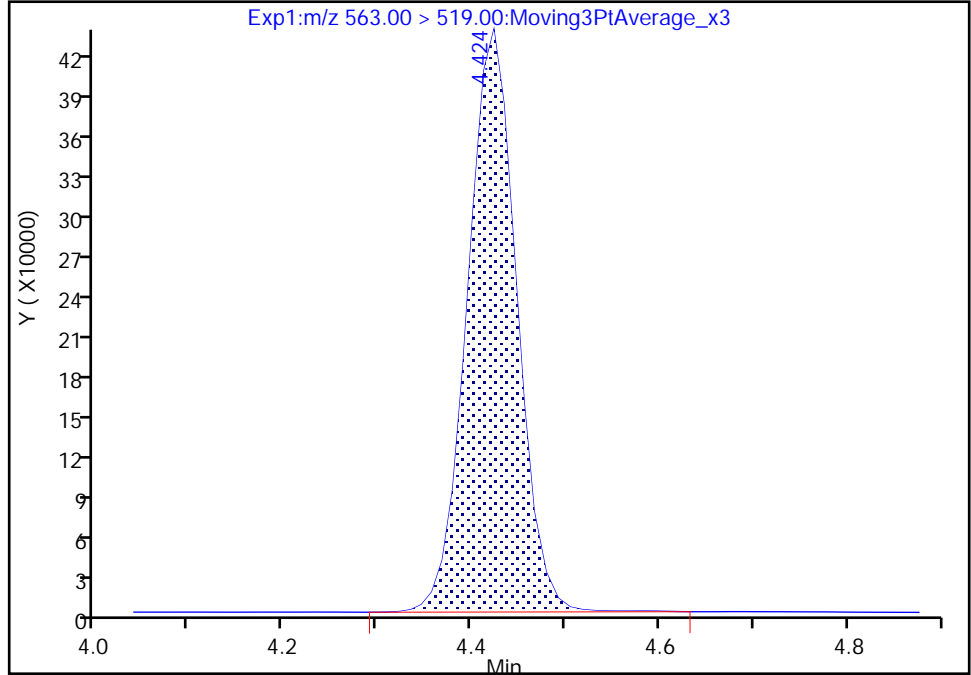
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

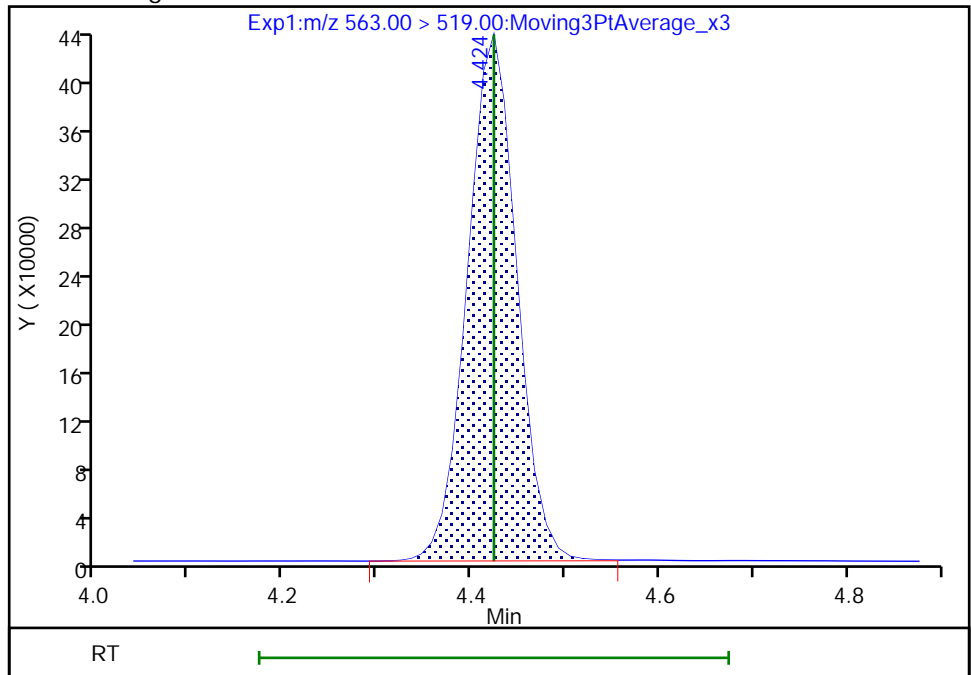
RT: 4.42
Area: 1576541
Amount: 2.556620
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 1574802
Amount: 2.553799
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:30:29
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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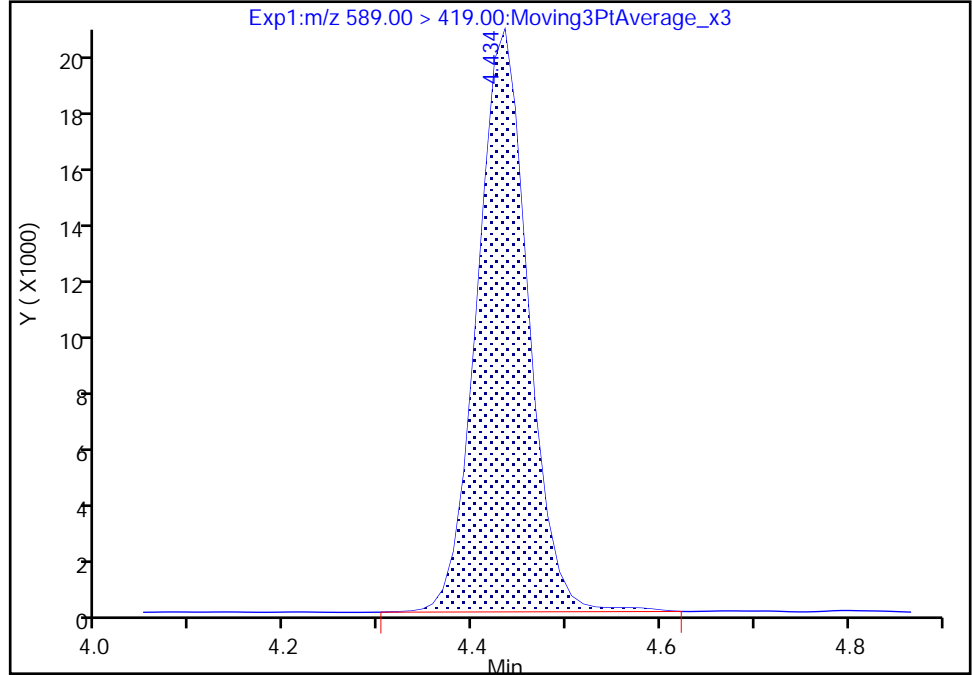
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 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 32 d5-NEtFOSAA, CAS: STL02117
Signal: 1

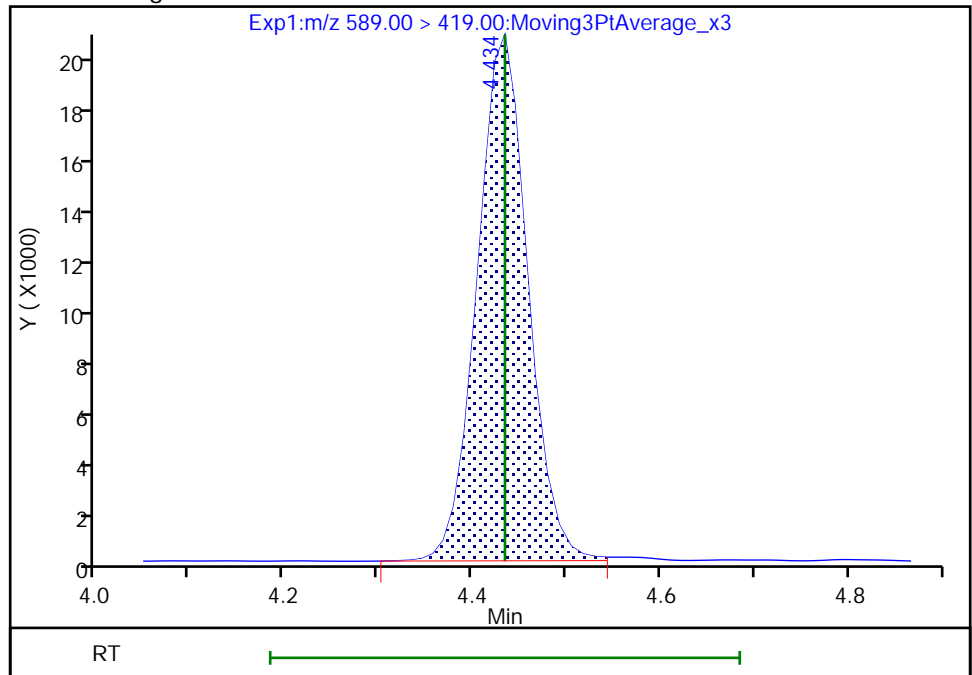
RT: 4.43
Area: 77360
Amount: 1.357650
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 76947
Amount: 1.355583
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:24:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

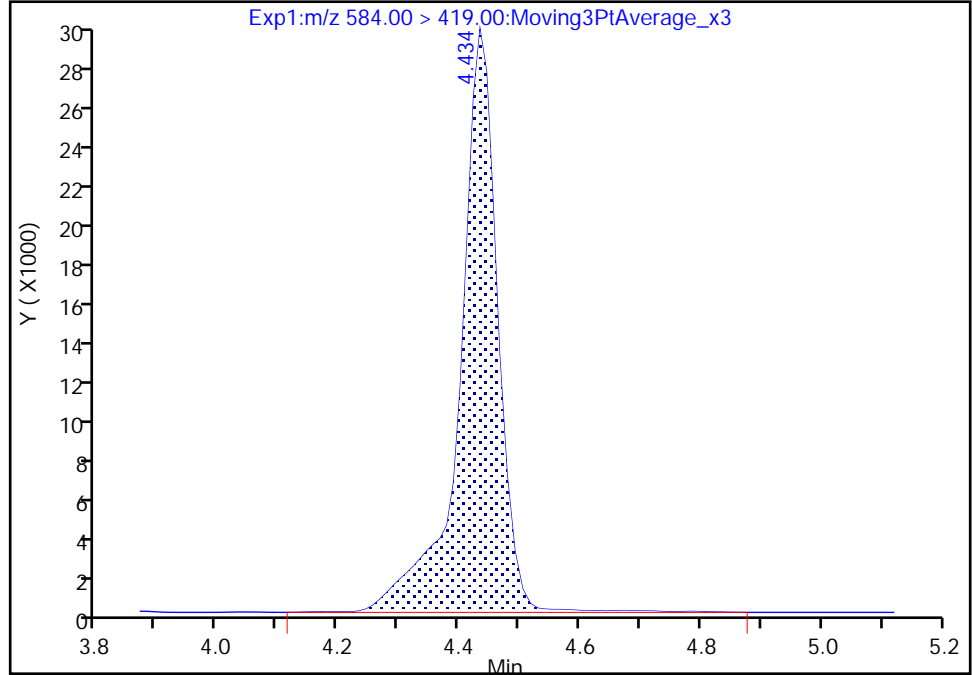
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

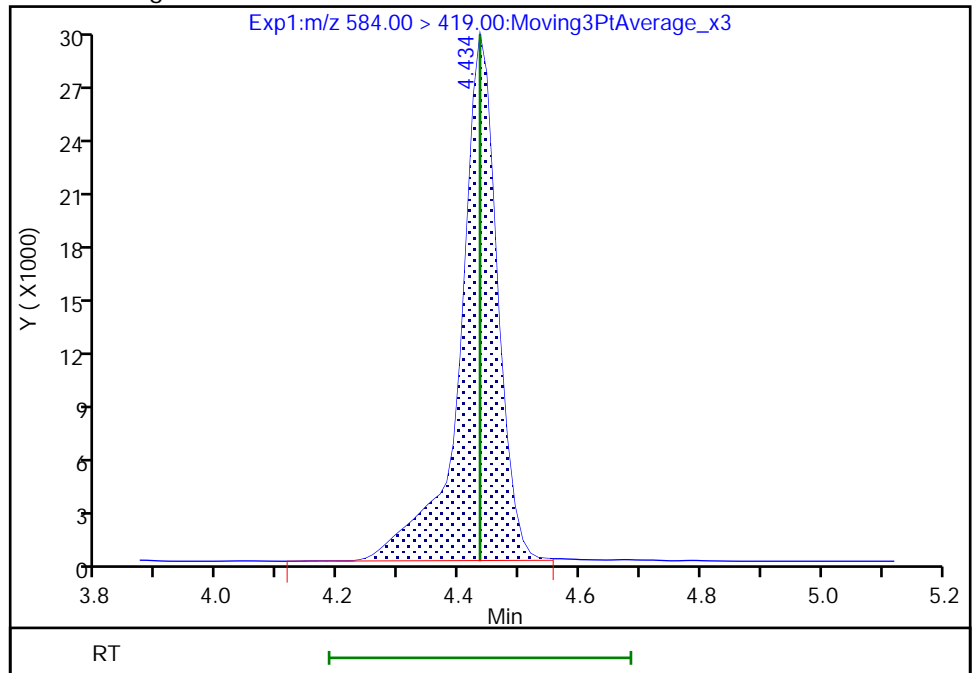
RT: 4.43
Area: 126940
Amount: 2.362164
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 125114
Amount: 2.328027
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:30:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

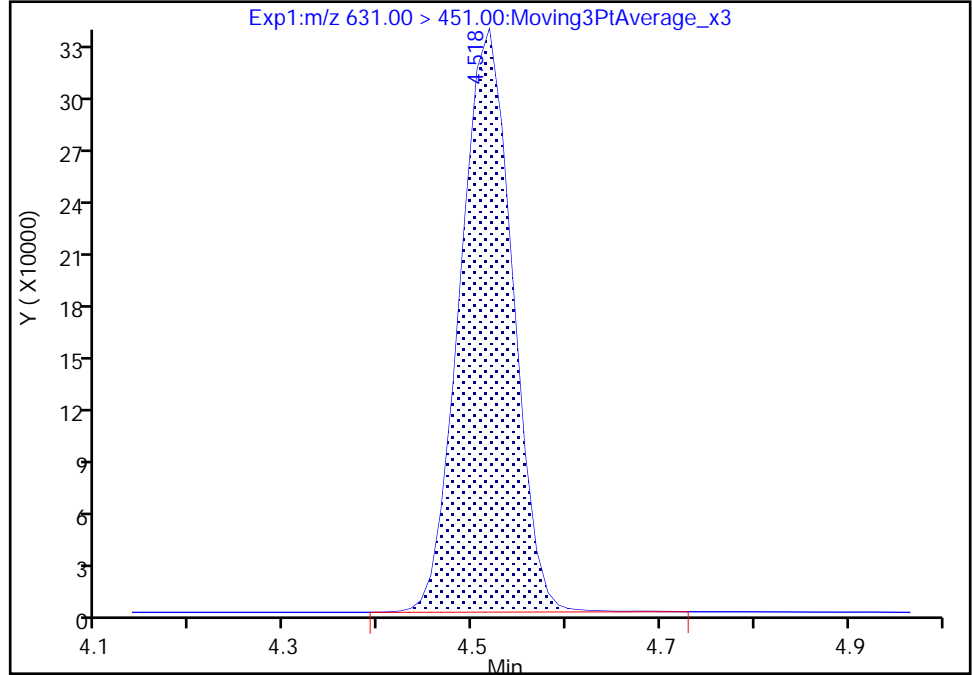
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

66 11-Chloroeicosafuoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

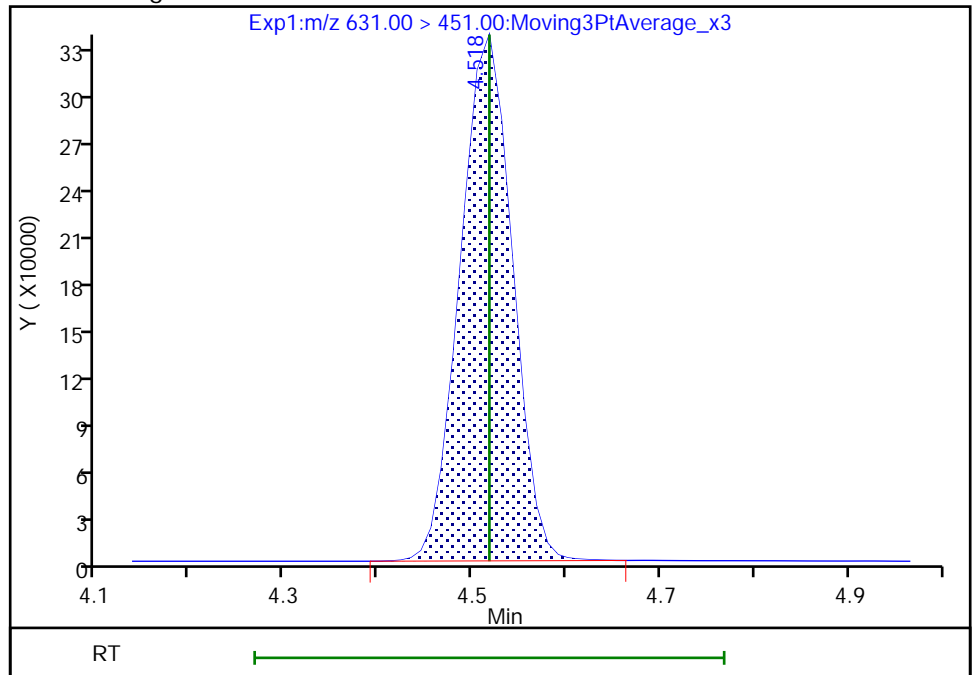
RT: 4.52
Area: 1301496
Amount: 2.284892
Amount Units: ng/ml

Processing Integration Results



RT: 4.52
Area: 1299313
Amount: 2.281059
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:30:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

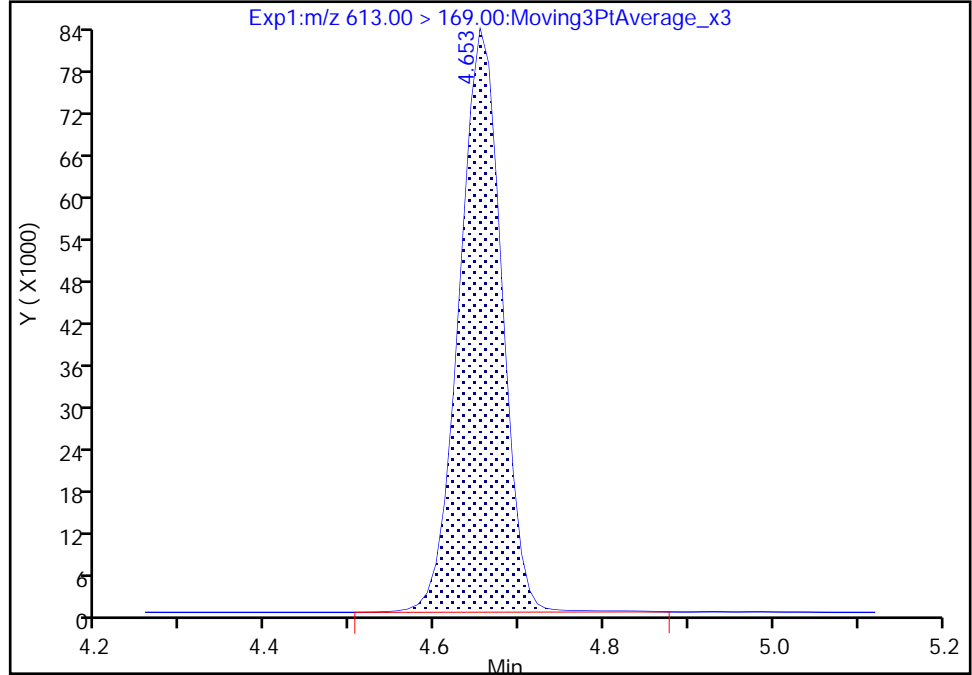
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

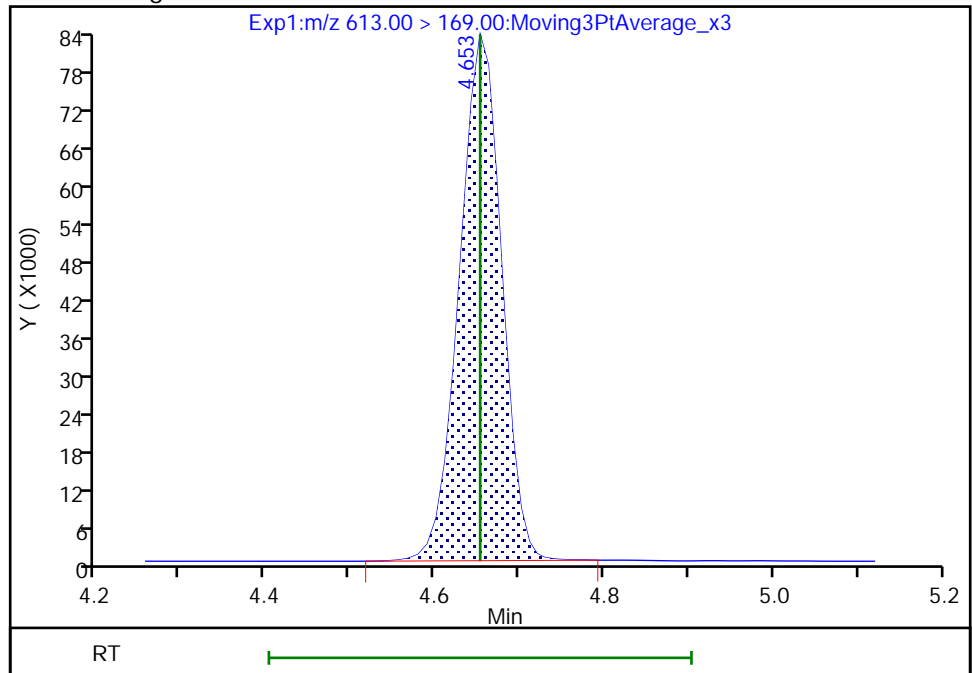
RT: 4.65
Area: 290977
Amount: 2.418224
Amount Units: ng/ml

Processing Integration Results



RT: 4.65
Area: 289556
Amount: 2.418224
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:31:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

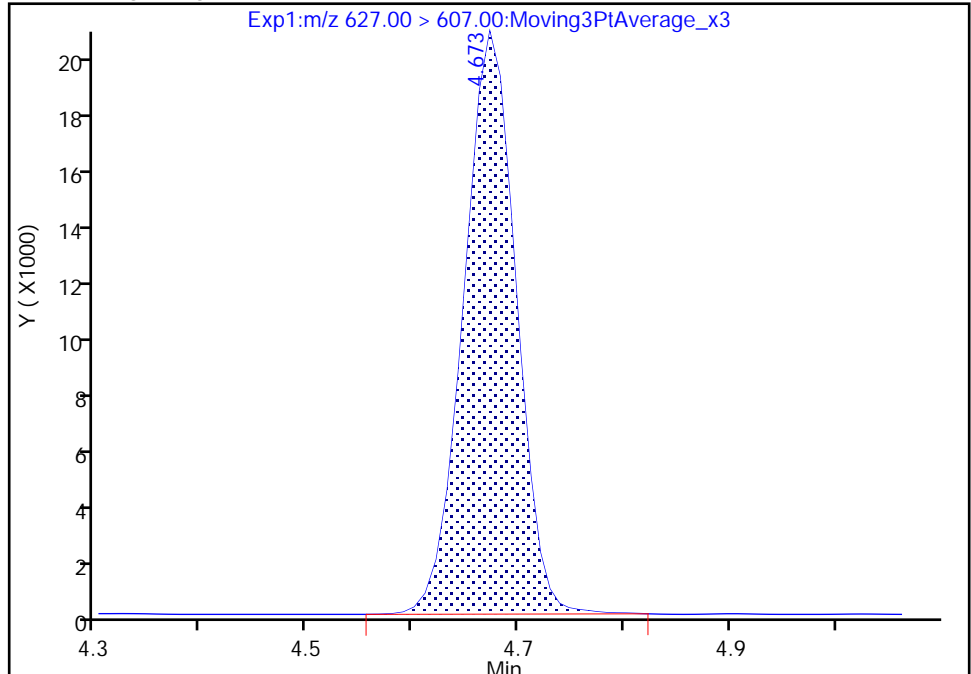
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

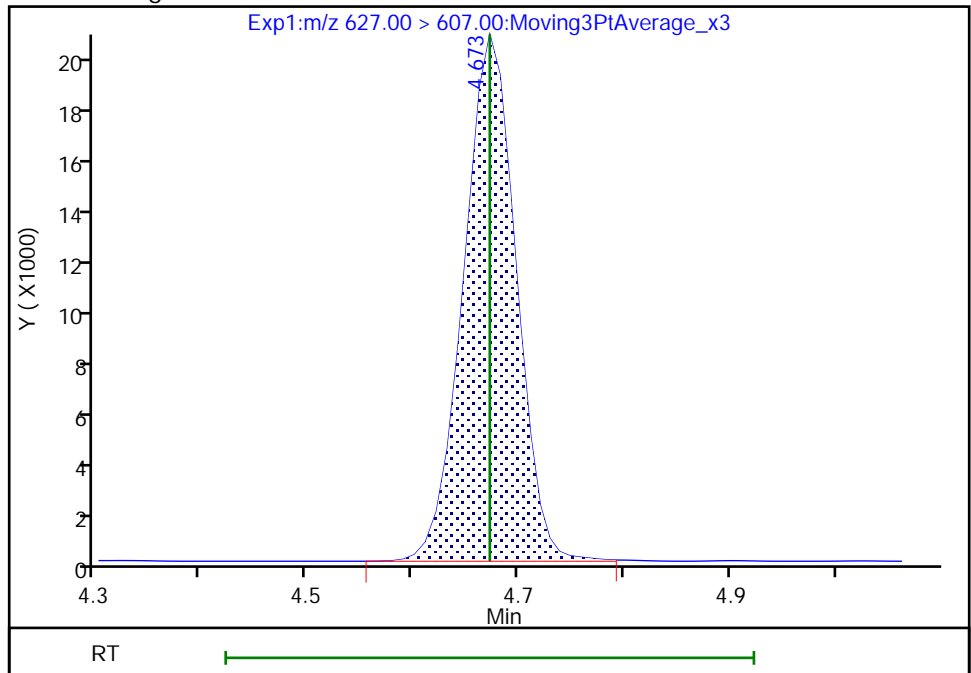
RT: 4.67
Area: 70477
Amount: 2.040499
Amount Units: ng/ml

Processing Integration Results



RT: 4.67
Area: 70565
Amount: 2.043047
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:31:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

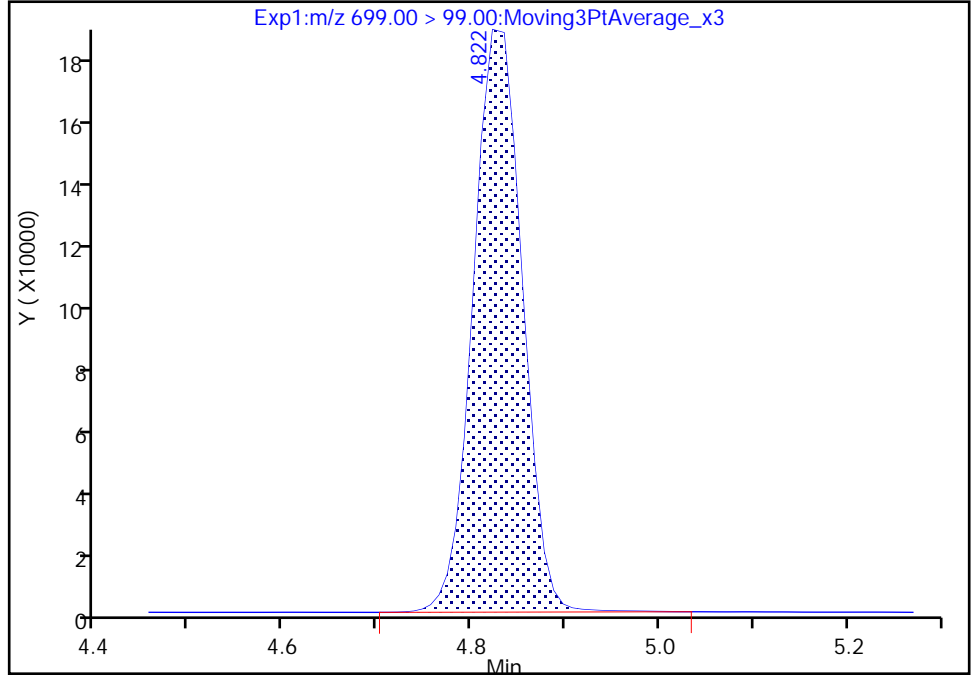
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

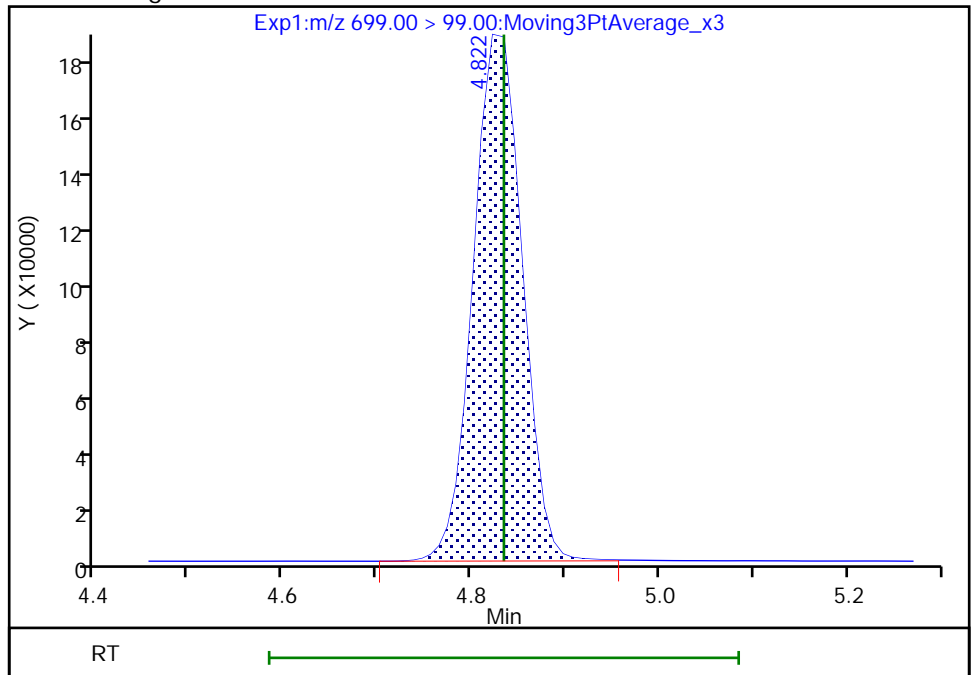
RT: 4.82
Area: 682587
Amount: 2.473975
Amount Units: ng/ml

Processing Integration Results



RT: 4.82
Area: 682025
Amount: 2.473975
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:31:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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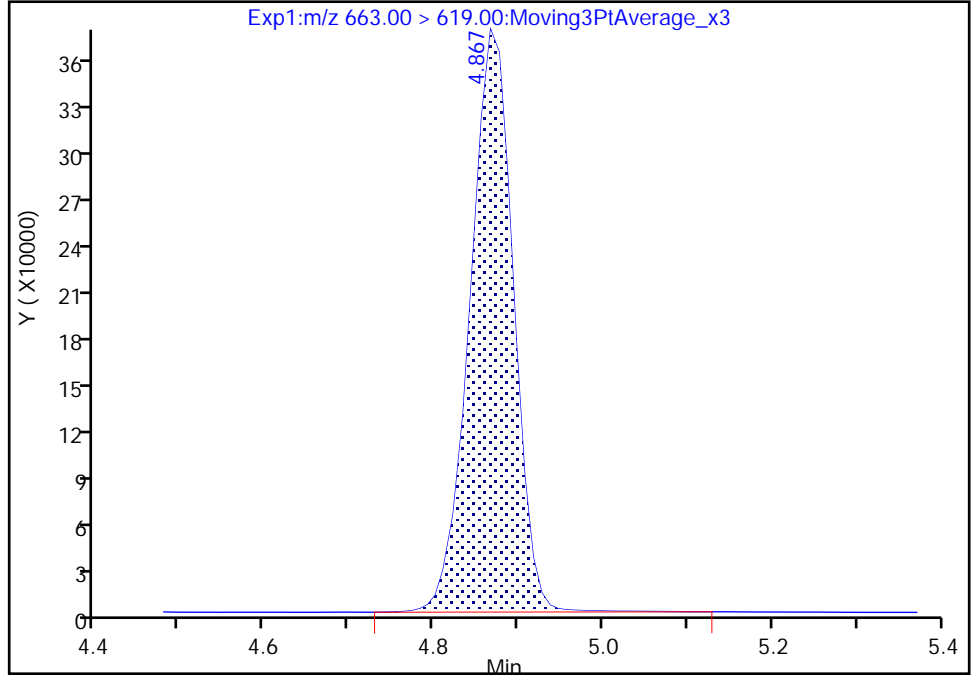
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

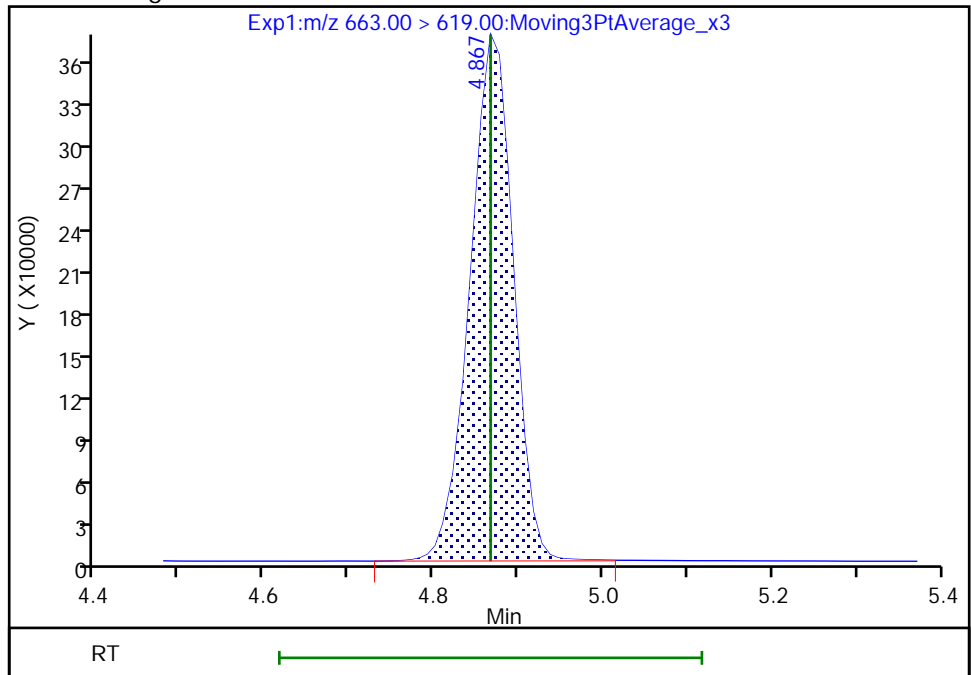
RT: 4.87
Area: 1328740
Amount: 2.445364
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 1327355
Amount: 2.442816
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:31:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

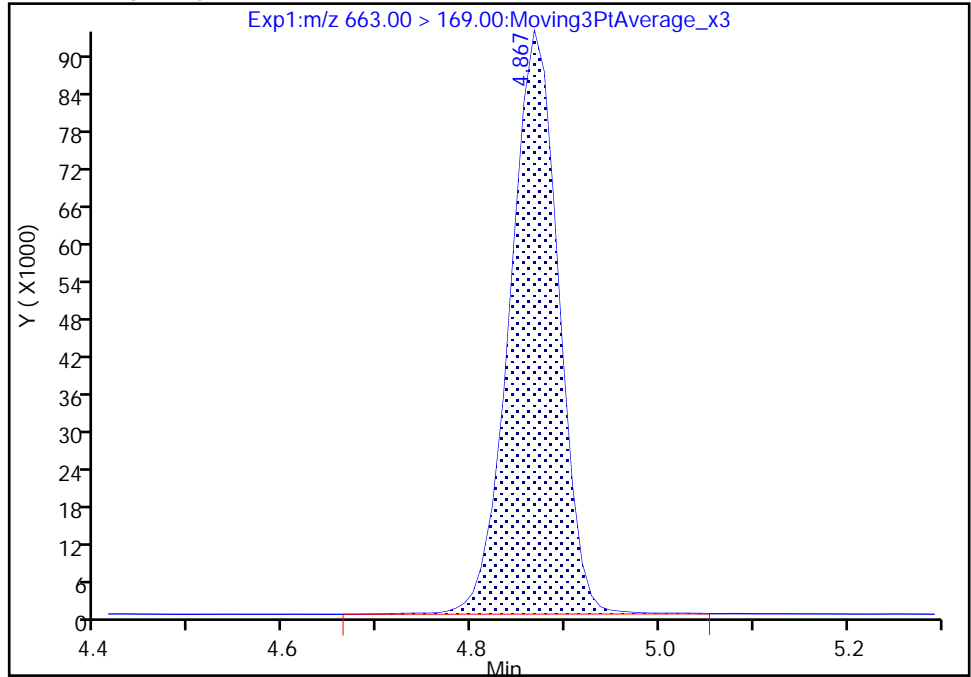
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

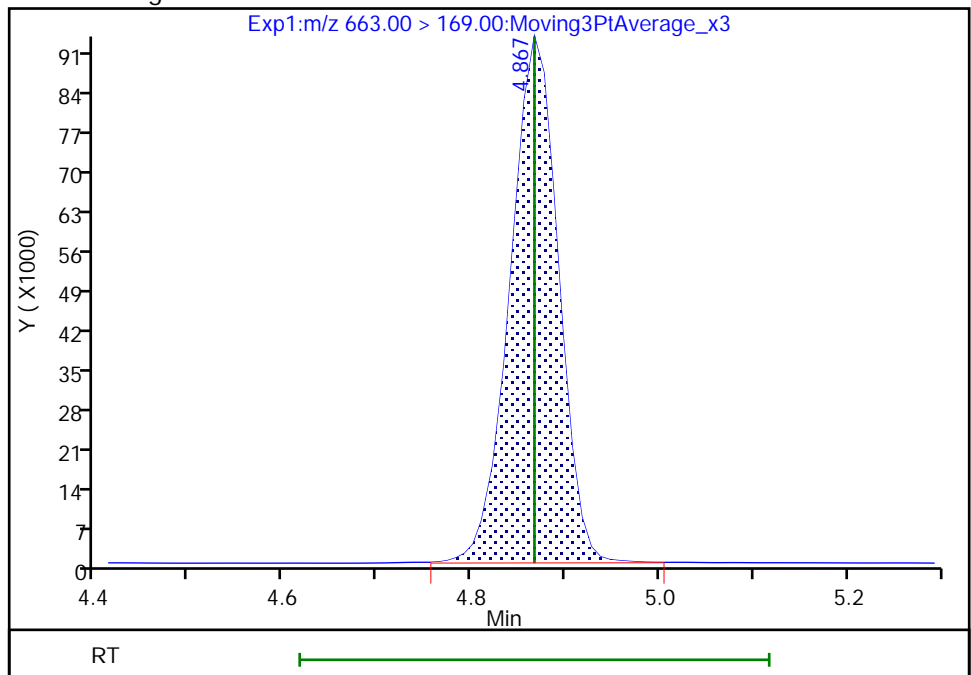
RT: 4.87
Area: 335731
Amount: 2.445364
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
Area: 334950
Amount: 2.442816
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:31:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

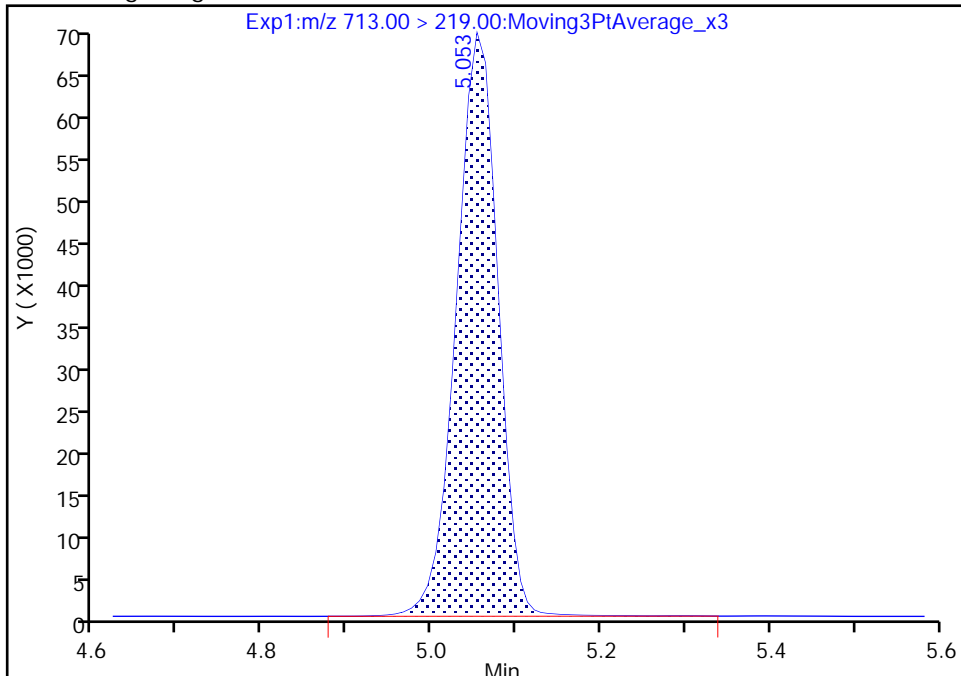
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C15.d
Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

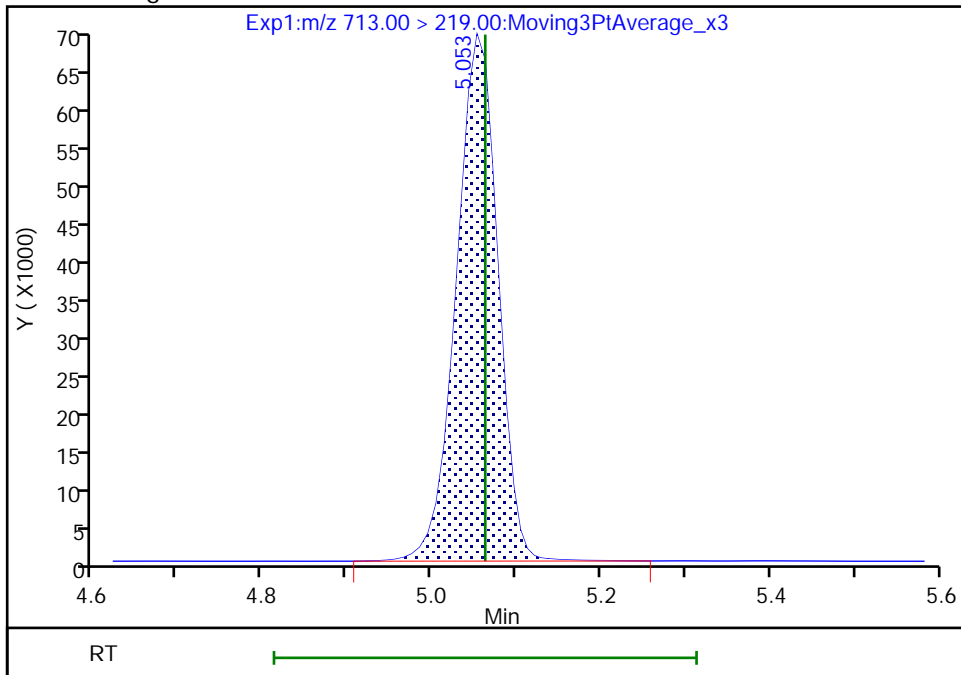
RT: 5.05
Area: 235231
Amount: 2.558215
Amount Units: ng/ml

Processing Integration Results



RT: 5.05
Area: 235013
Amount: 2.558215
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:32:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 587 of 761

Euofins TestAmerica, Burlington

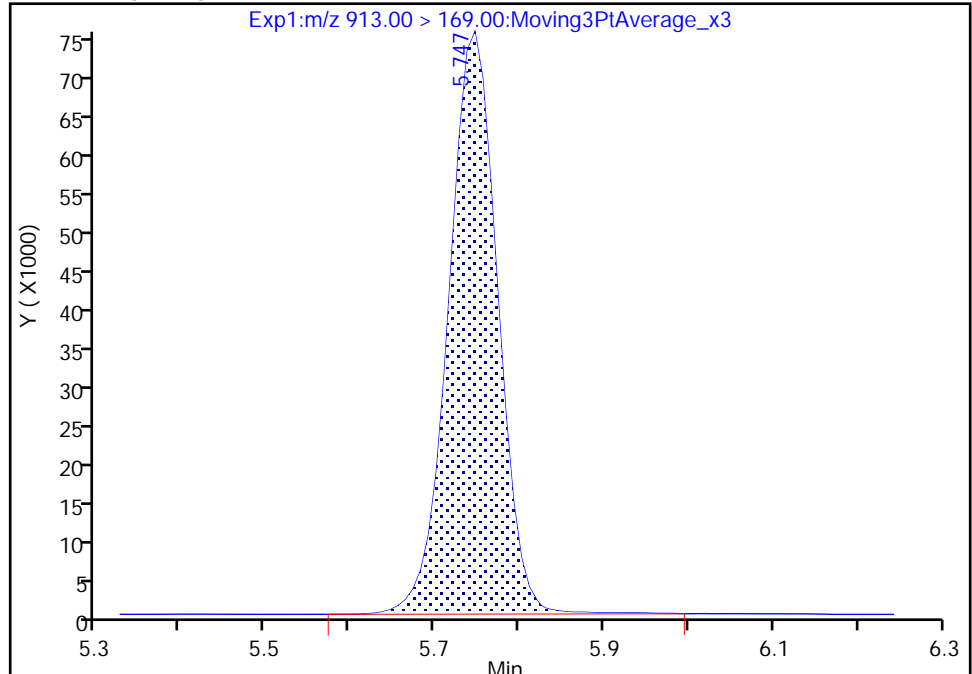
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Injection Date: 22-May-2021 00:33:03 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 42 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

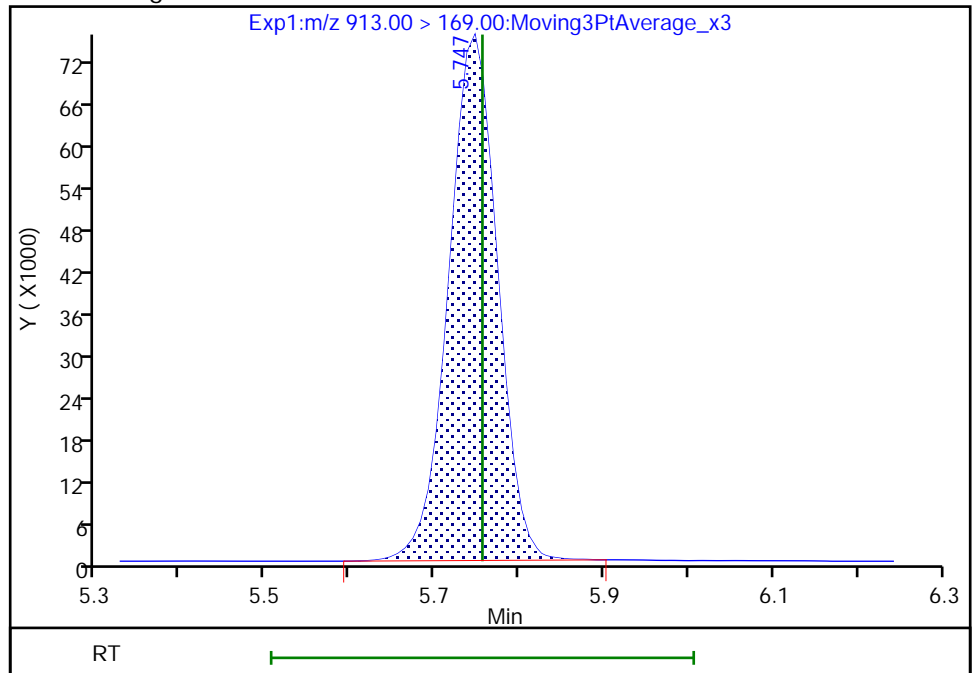
RT: 5.75
Area: 304857
Amount: 2.525456
Amount Units: ng/ml

Processing Integration Results



RT: 5.75
Area: 303030
Amount: 2.525456
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:32:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-167147/1-A
 Matrix: Water Lab File ID: PA210521C02.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 250 (mL) Date Analyzed: 05/21/2021 22:45
 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.: 167173 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)	ND		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
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.422	J	2.0	0.29
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.31
754-91-6	Perfluorooctanesulfonamide (PFOSA)	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	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	1.1
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.39

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-167147/1-A
 Matrix: Water Lab File ID: PA210521C02.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 250 (mL) Date Analyzed: 05/21/2021 22:45
 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.: 167173 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	84		50-150
STL01892	13C4 PFHpA	86		50-150
STL00990	13C4 PFOA	88		50-150
STL00991	13C4 PFOS	88		50-150
STL00995	13C5 PFNA	88		50-150
STL00992	13C4 PFBA	89		25-150
STL00993	13C2 PFHxA	90		50-150
STL00996	13C2 PFDA	92		50-150
STL00997	13C2 PFUnA	77		50-150
STL00998	13C2 PFDoA	69		50-150
STL01056	13C8 FOSA	53		25-150
STL01893	13C5 PFPeA	88		25-150
STL02116	13C2 PFTeDA	66		50-150
STL02118	d3-NMeFOSAA	88		50-150
STL02117	d5-NEtFOSAA	77		50-150
STL02279	M2-6:2 FTS	84		25-150
STL02280	M2-8:2 FTS	94		25-150
STL02337	13C3 PFBS	87		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
 Lims ID: MB 200-167147/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 21-May-2021 22:45:18 ALS Bottle#: 29 Worklist Smp#: 2
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-167147/1-A
 Misc. Info.: 200-0046090-002 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 08:34:06
 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	2.091	2.091	0.0	0.596	1520834	1.11	88.6	10605	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.100	-0.009	1.000	23676	0.0208		3.9		M
D 3 13C5 PFPeA	267.90 > 223.00	2.414	2.426	-0.012	0.688	1096310	1.10	87.9	3015	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.414	2.426	-0.012	1.000	6098	0.006878		0.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.427	2.439	-0.012	0.691	1257950	1.01	86.8	480528	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.440	2.439	0.001	1.005	5509	0.004941	Target=2.19	13.8		M
298.90 > 99.00	2.440	2.439	0.001	1.005	2064		2.67(1.09-3.28)	1.6		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.747	2.746	0.001	0.782	108381	1.12	95.9	160	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.735	2.746	-0.011	0.996	173	0.001069		3.1		M
D 7 13C2 PFHxA	315.00 > 270.00	2.783	2.782	0.001	0.793	1223534	1.13	90.4	3459	
70 Perfluoropentanesulfonic acid										RM
349.00 > 80.00	2.783	2.795	-0.011	0.885	1106	0.001114	Target=3.58	4.0		RM
349.00 > 99.00	2.771	2.795	-0.023	0.881	618		1.79(1.79-5.37)	1.5		M
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.913	2.892	0.021	1.007	1003	0.006199		0.3		M
D 64 13C3 HFPO-DA	332.10 > 287.00	2.893	2.902	-0.009	0.824	122227	1.02	81.6	937	
D 11 18O2 PFHxS	403.00 > 84.00	3.144	3.154	-0.010	0.895	964291	1.00	84.3	2041	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.144	3.154	-0.010	1.000	4028	0.004456	Target=4.23	21.7		M
399.00 > 99.00	3.144	3.154	-0.010	1.000	1621		2.48(2.12-6.35)	2.4		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.155	3.154	0.001	0.899	1159778	1.07		85.7	3328	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.155	3.164	-0.009	1.000	1500	0.001603	Target=3.49	1.0		M
363.00 > 169.00	3.155	3.164	-0.009	1.000	436		3.44(1.75-5.24)	1.3		M
77 DONA										M
377.00 > 251.00	3.187	3.196	-0.009	0.833	1805	0.000940	Target=2.43	6.2		M
377.00 > 85.00	3.176	3.196	-0.020	0.830	972		1.86(1.21-3.64)	1.9		M
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.493	3.510	-0.017	0.913	1211	0.001595	Target=6.21	10.6		RM
449.00 > 99.00	3.511	3.510	0.001	0.918	427		2.84(3.10-9.31)	2.1		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.502	3.510	-0.008	0.997	127555	1.00		83.8	567	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.502	3.510	-0.008	1.000	185	0.001920		4.9		M
D 14 13C4 PFOA										M
417.00 > 372.00	3.511	3.519	-0.008	1.000	1208474	1.10		88.2	3241	M
* 62 13C2 PFOA										
415.00 > 370.00	3.511	3.519	-0.008		1368909	1.25		209		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.511	3.519	-0.008	1.000	1860	0.001873	Target=2.53	1.1		M
413.00 > 169.00	3.502	3.519	-0.017	0.997	1139		1.63(1.27-3.80)	3.3		M
D 18 13C4 PFOS										
503.00 > 80.00	3.826	3.836	-0.010	1.090	730489	1.05		87.5	2746	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.837	3.836	0.001	1.003	6939	0.0105	Target=6.09	4.1		M
499.00 > 99.00	3.826	3.836	-0.010	1.000	1648		4.21(3.04-9.13)	3.8		M
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.873	3.858	0.015	1.006	876	0.001022	Target=6.34	0.4		RM
463.00 > 169.00	3.861	3.858	0.003	1.003	381		2.30(3.17-9.51)	5.2		M
D 19 13C5 PFNA										M
468.00 > 423.00	3.849	3.858	-0.009	1.096	1112535	1.10		88.1	3333	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.986	4.002	-0.016	1.042	774	0.001222		4.5		M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.129	4.126	0.003	1.079	685	0.001398	Target=2.95	9.4		M
549.00 > 99.00	4.129	4.126	0.003	1.079	204		3.36(1.47-4.42)	1.2		M
D 23 13C2 PFDA										
515.00 > 470.00	4.151	4.160	-0.009	1.182	1017516	1.15		91.9	4118	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.151	4.160	-0.009	1.000	2387	0.002802	Target=7.79	3.3		M
513.00 > 169.00	4.162	4.160	0.002	1.003	492		4.85(3.90-11.69)	3.5		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.162	4.171	-0.009	1.186	148629	1.13		94.4	885	

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	4.151	4.171	-0.020	0.997	92	0.001477			2.5	M
D 21 13C8 FOSA										
506.00 > 78.00	4.217	4.225	-0.008	1.201	820540	0.6567		52.5	2856	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.227	4.225	0.002	1.002	1802	0.002806			12.8	M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.295	4.302	-0.007	1.223	65983	1.10		88.1	1352	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.306	4.302	0.004	1.003	214	0.004612			2.2	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.384	4.391	-0.007	1.146	533	0.001382	Target=2.87		9.8	M
599.00 > 99.00	4.395	4.391	0.004	1.149	246		2.17(1.44-4.31)		2.9	M
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.417	4.424	-0.007	1.000	1649	0.003046	Target=7.94		2.7	M
563.00 > 169.00	4.406	4.424	-0.018	0.997	217		7.60(3.97-11.91)		4.7	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.417	4.424	-0.007	1.258	684228	0.9632		77.1	2650	
D 32 d5-NEtFOSAA										M
589.00 > 419.00	4.428	4.434	-0.006	1.261	58139	0.9671		77.4	904	M
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.428	4.434	-0.006	1.000	321	-0.003056			2.5	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.511	4.518	-0.007	1.179	977	0.001734			12.1	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.647	4.653	-0.006	1.324	644510	0.8671		69.4	2250	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.658	4.653	0.005	1.002	1847	0.003573	Target=5.94		0.9	M
613.00 > 169.00	4.658	4.653	0.005	1.002	383		4.82(2.97-8.92)		8.6	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.667	4.673	-0.006	1.121	30	0.000939			1.9	M
75 Perfluorododecanesulfonic acid (M
699.00 > 80.00	4.815	4.834	-0.019	1.258	299	0.002272	Target=0.44		6.4	M
699.00 > 99.00	4.815	4.834	-0.019	1.258	483		0.62(0.22-0.66)		5.7	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.849	4.867	-0.018	1.044	892	0.002140	Target=3.97		0.7	M
663.00 > 169.00	4.860	4.867	-0.007	1.046	165		5.41(1.99-5.96)		2.7	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.047	5.063	-0.016	1.437	451778	0.8307		66.5	3026	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.056	5.063	-0.007	1.002	322	0.004357	Target=1.01		8.7	M
713.00 > 219.00	5.047	5.063	-0.016	1.000	247		1.30(0.51-1.52)		9.3	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.397	5.416	-0.019	1.537	500541	0.9401		75.2	2541	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.408	5.416	-0.008	1.002	4798	0.001184	Target=3.56		6.0	M
813.00 > 169.00	5.408	5.416	-0.008	1.002	1574		3.05(1.78-5.34)		37.1	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.740	5.756	-0.016	1.064	996	0.002912	Target=3.39		2.0	M
913.00 > 169.00	5.731	5.756	-0.025	1.062	297		3.35(1.70-5.09)		9.1	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

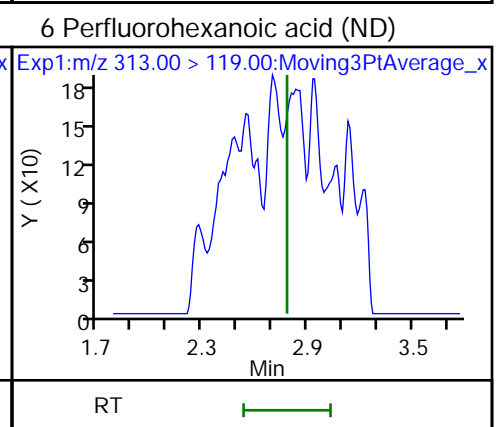
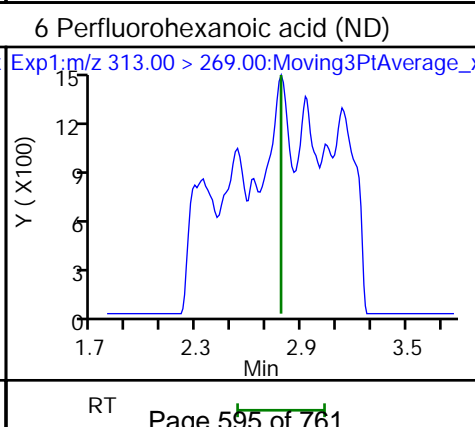
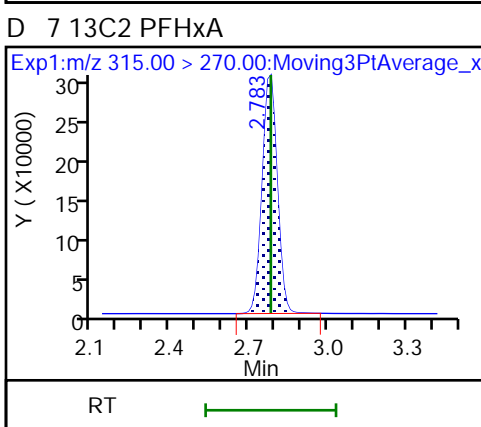
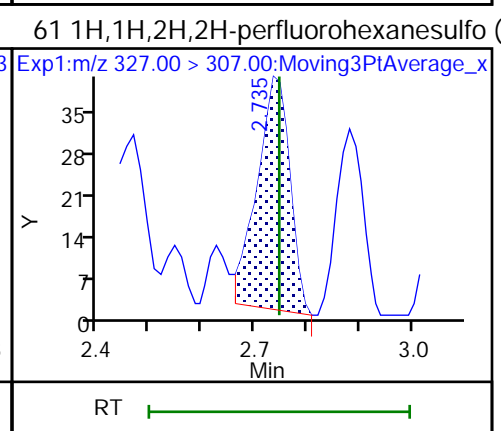
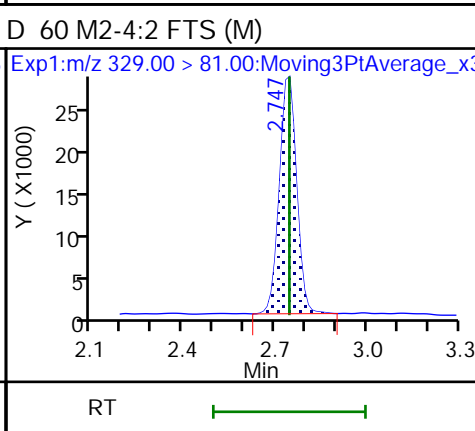
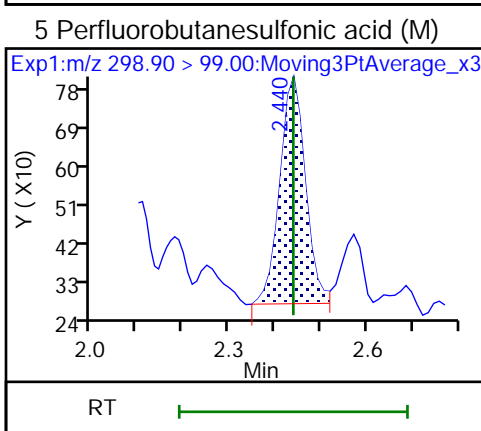
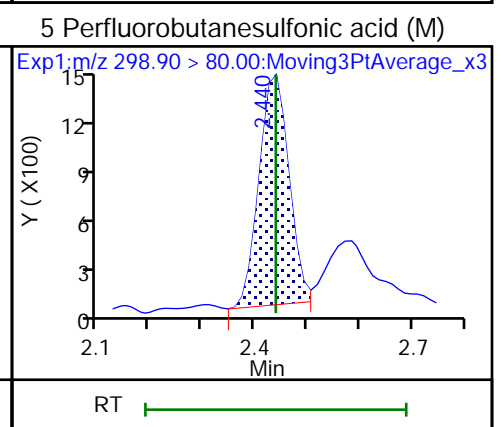
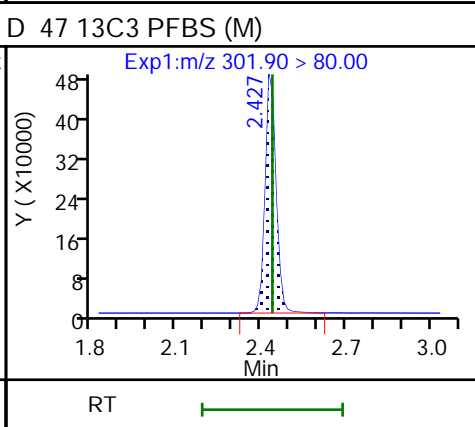
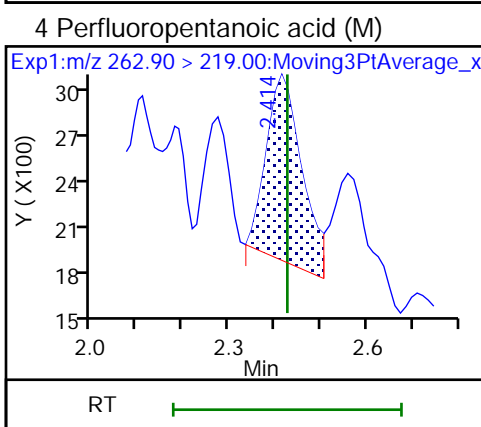
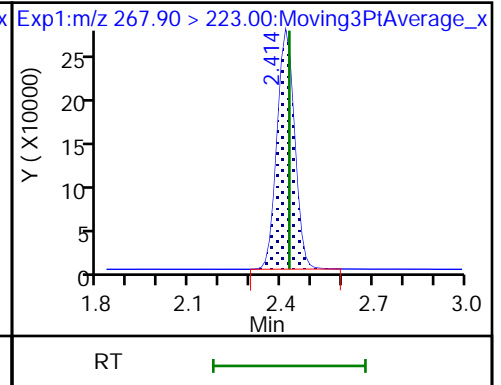
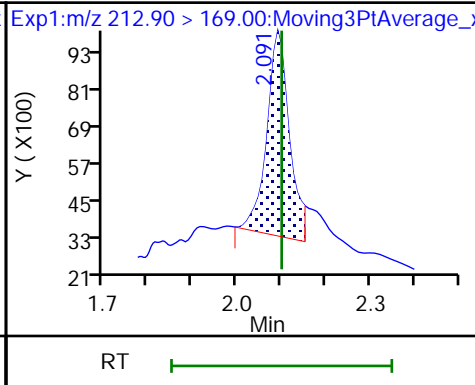
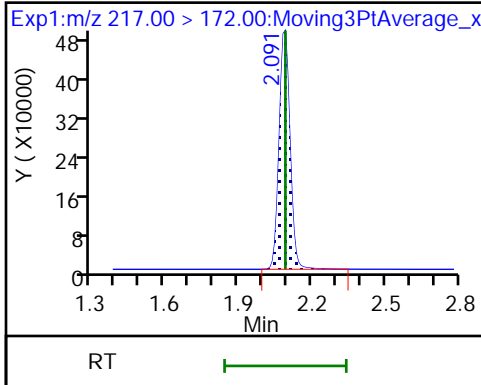
Review Flags

M - Manually Integrated

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

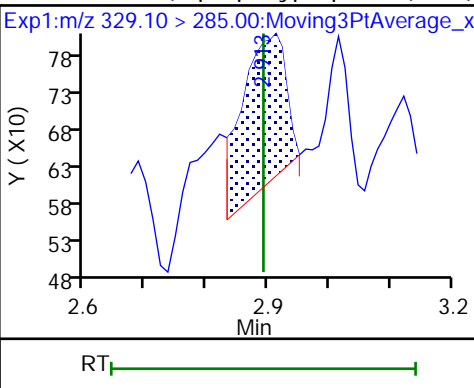
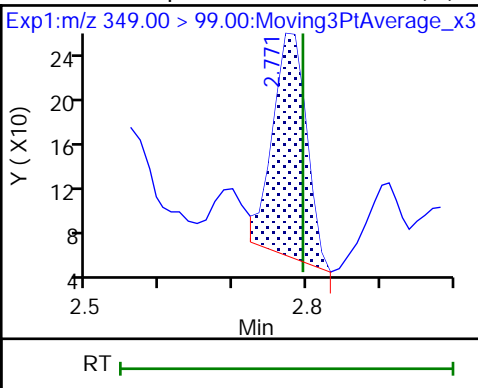
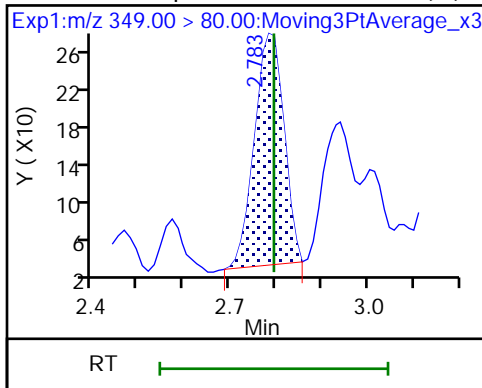
D 3 13C5 PFPeA



70 Perfluoropentanesulfonic acid (M)

70 Perfluoropentanesulfonic acid (M)

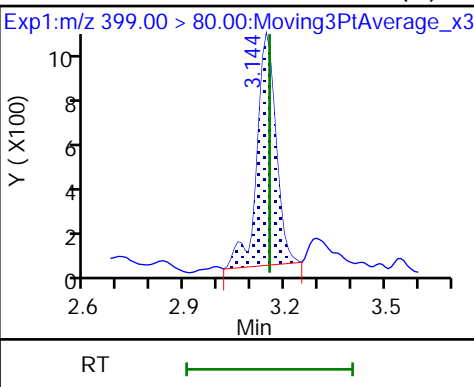
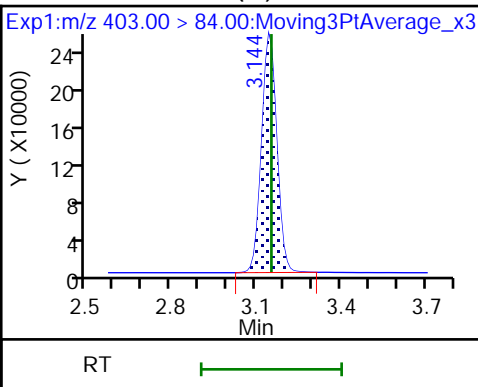
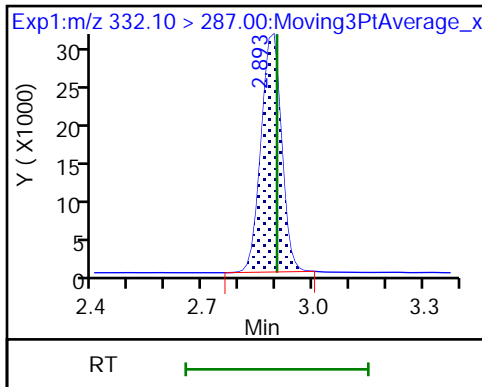
67 Perfluoro(2-propoxypropanoic) ac (M)



D 64 13C3 HFPO-DA

D 11 18O2 PFHxS (M)

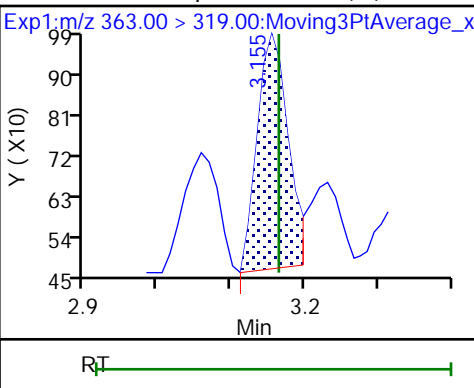
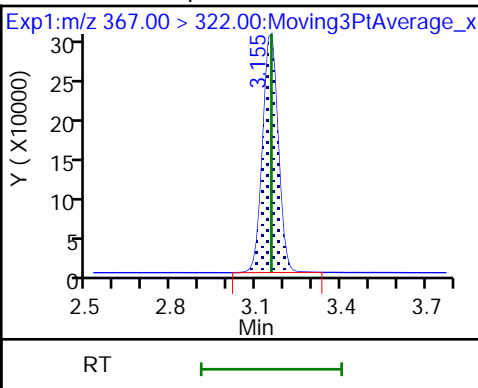
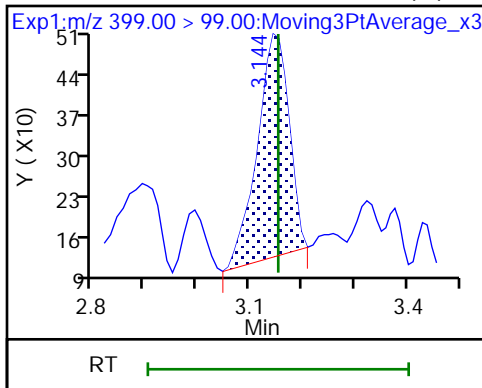
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

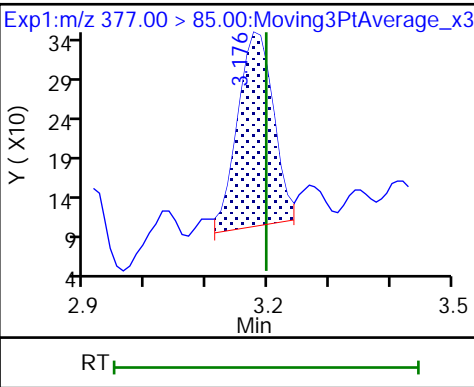
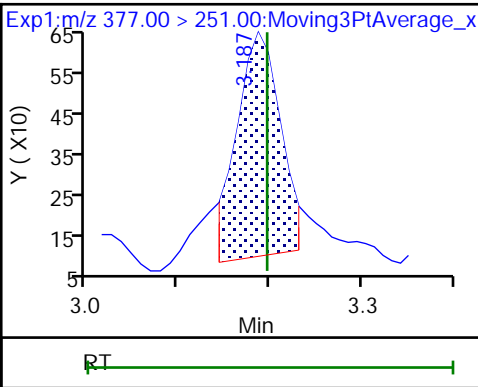
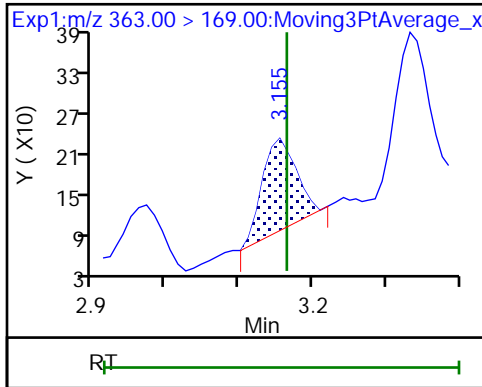
10 Perfluoroheptanoic acid (M)



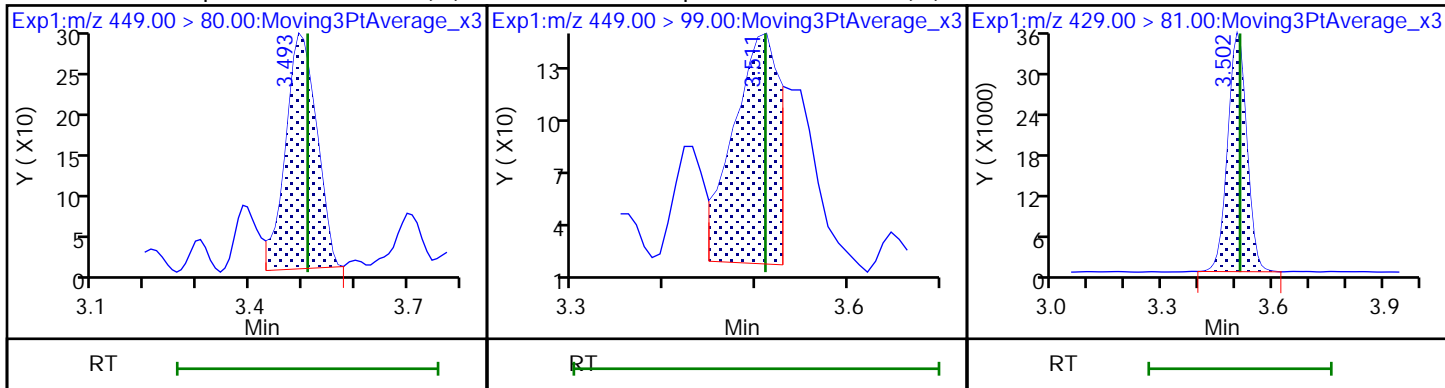
10 Perfluoroheptanoic acid (M)

77 DONA (M)

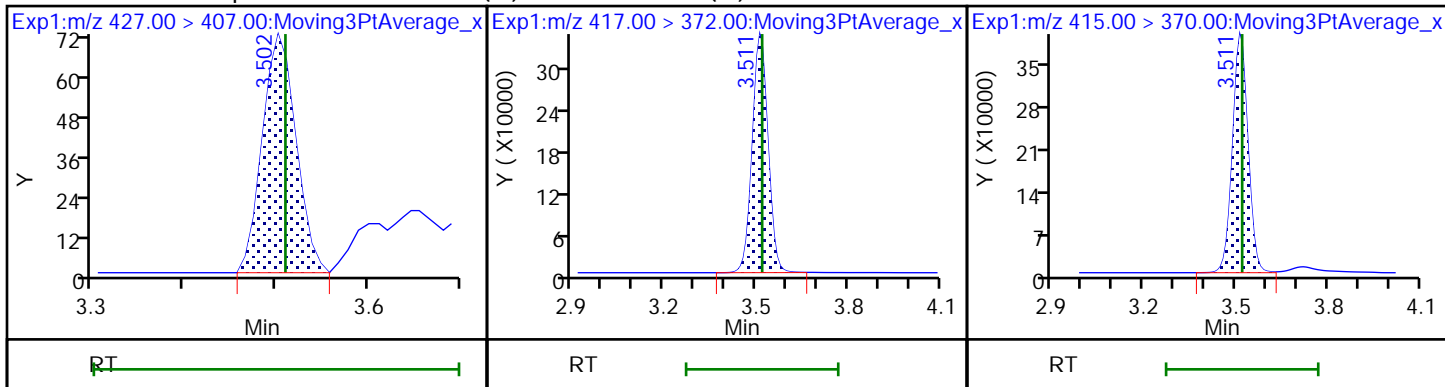
77 DONA (M)



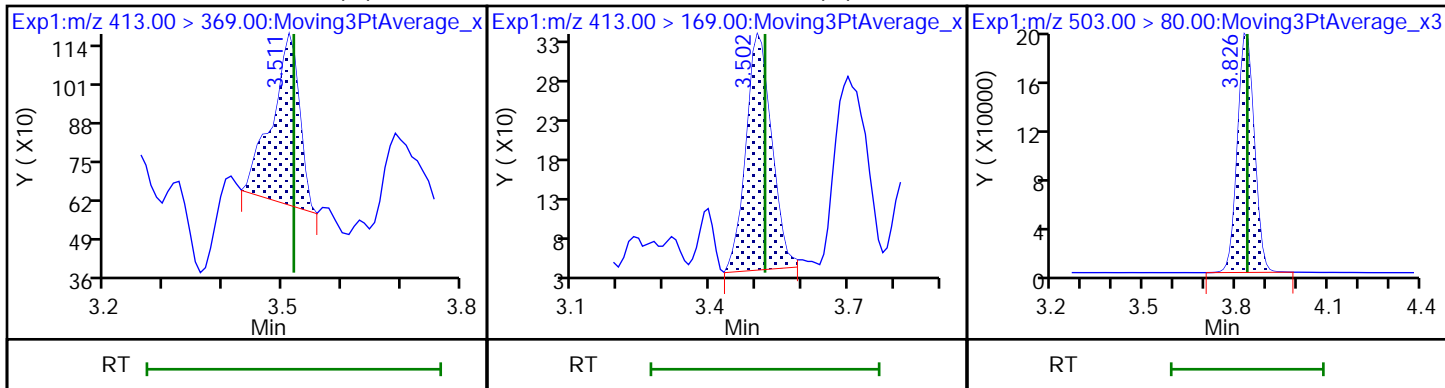
16 Perfluoroheptanesulfonic acid (M) 16 Perfluoroheptanesulfonic acid (M) D 12 M2-6:2 FTS



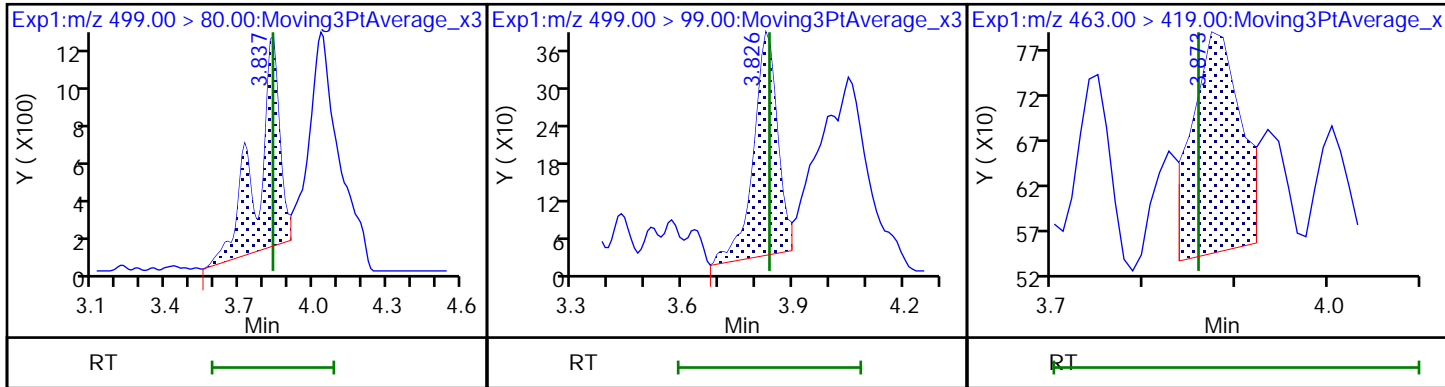
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 14 13C4 PFOA (M) * 62 13C2 PFOA

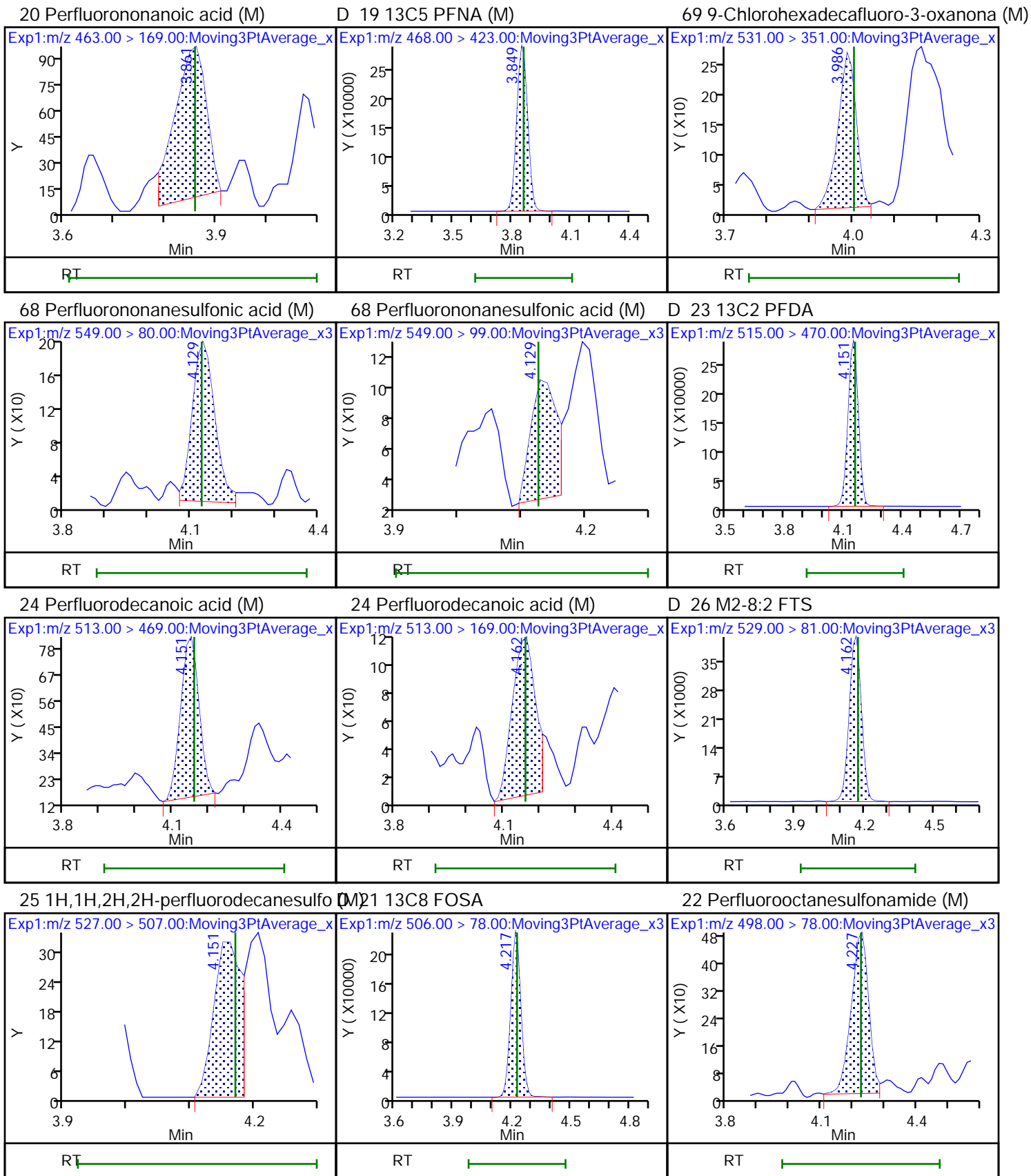


15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) D 18 13C4 PFOS



17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid (M) 20 Perfluorononanoic acid (M)

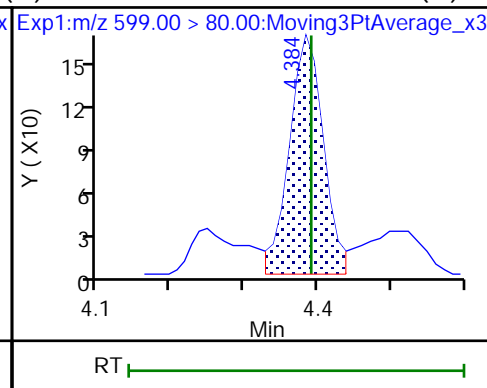
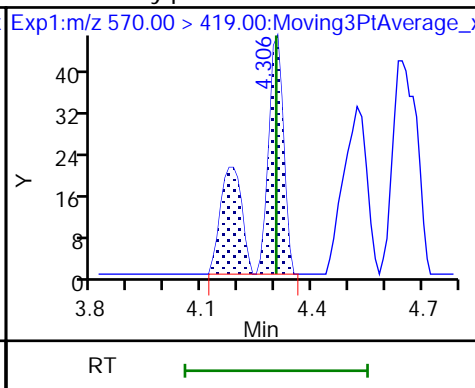
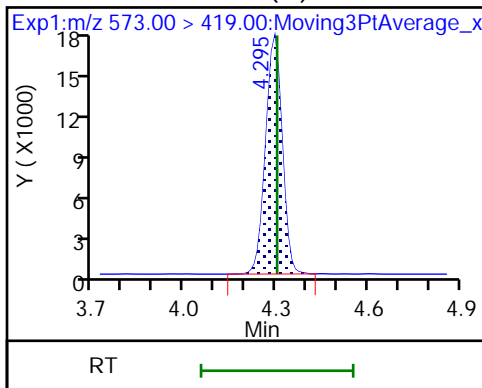




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

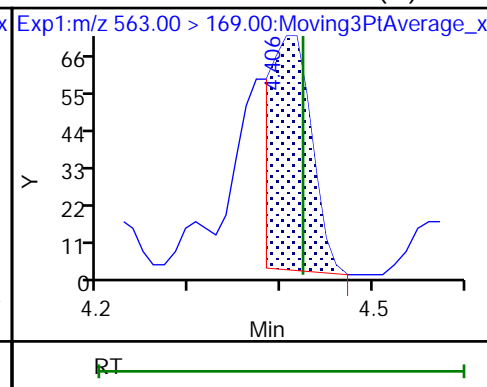
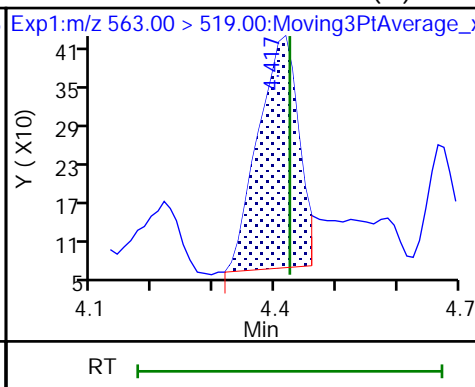
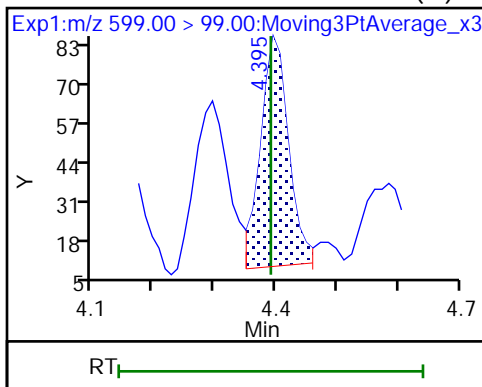
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

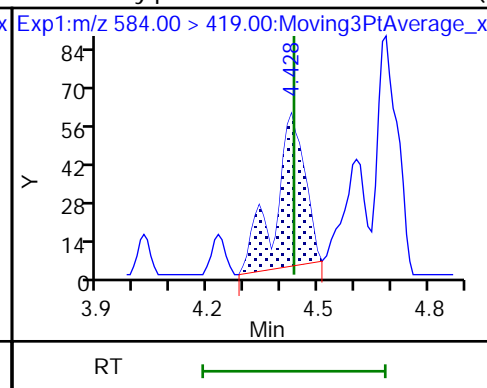
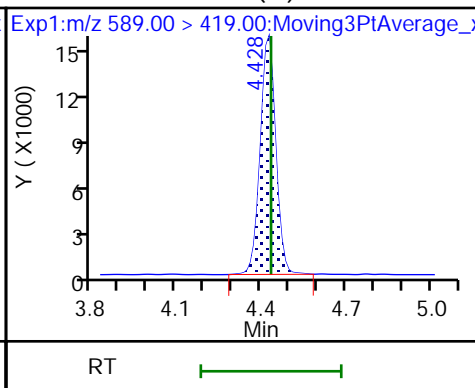
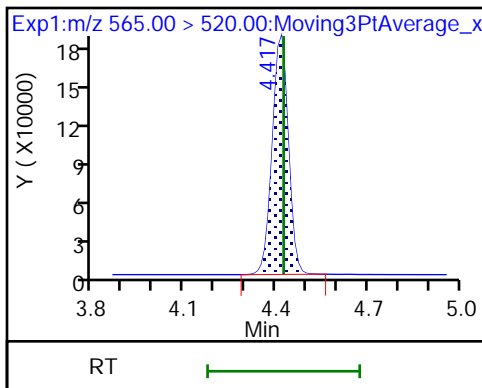
31 Perfluoroundecanoic acid (M)



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA (M)

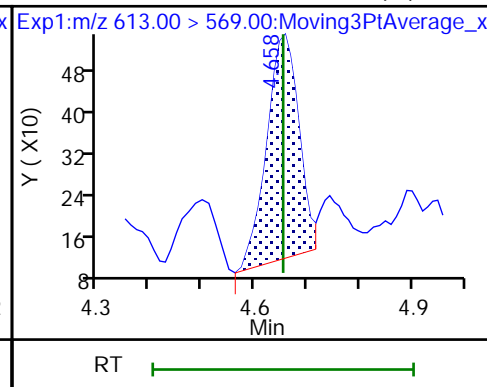
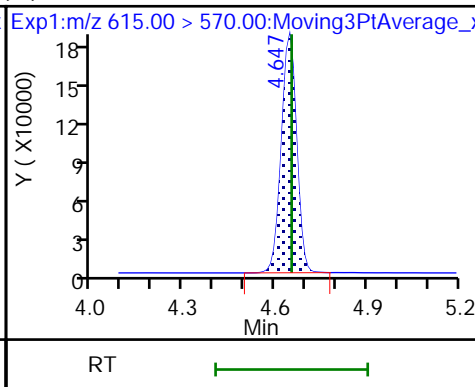
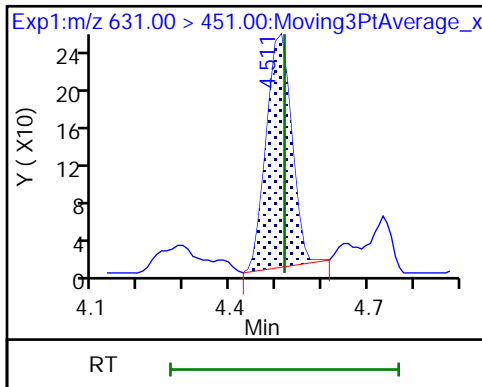
33 N-ethylperfluorooctanesulfonamid (M)



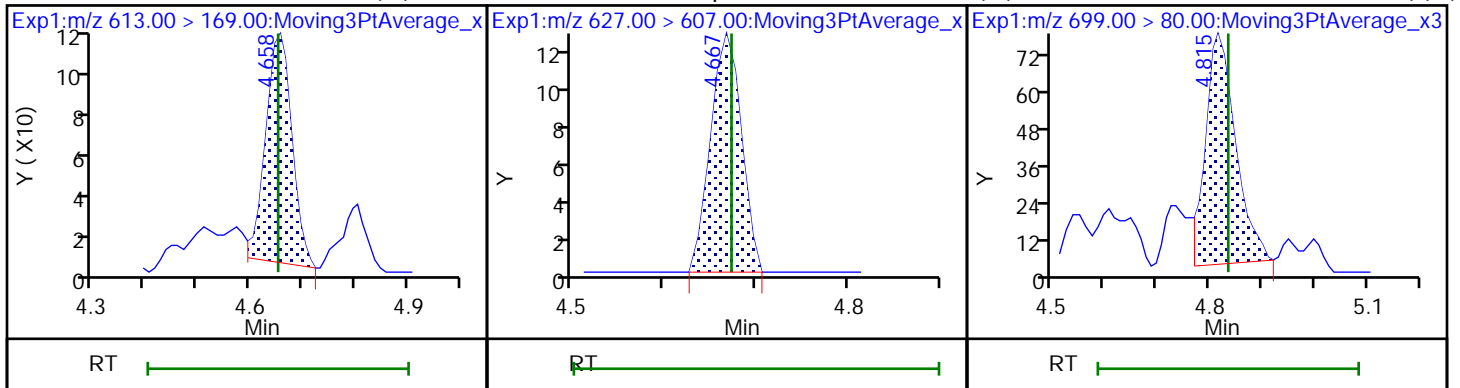
66 11-Chloroeicosafuoro-3-oxaundec (M)

36 13C2 PFDoA

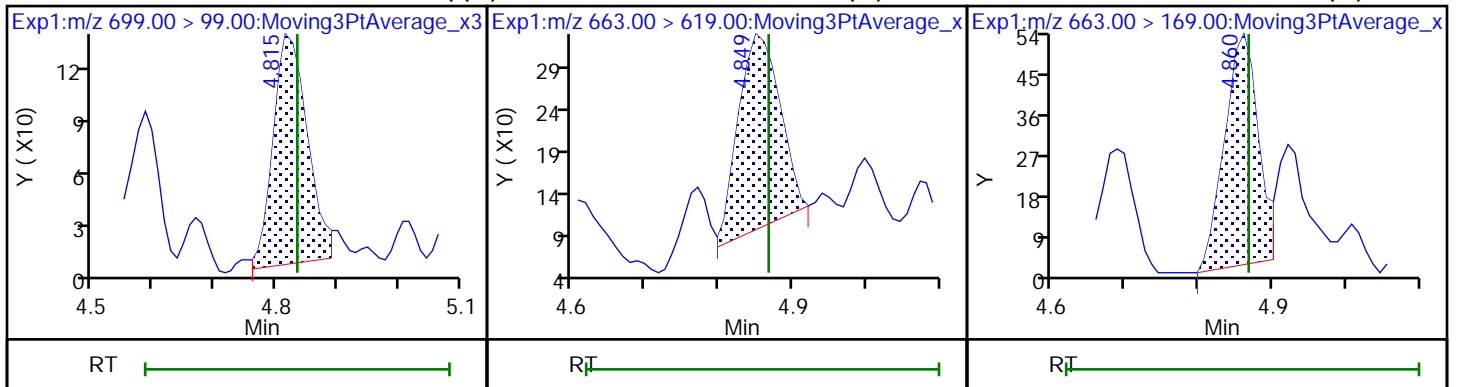
37 Perfluorododecanoic acid (M)



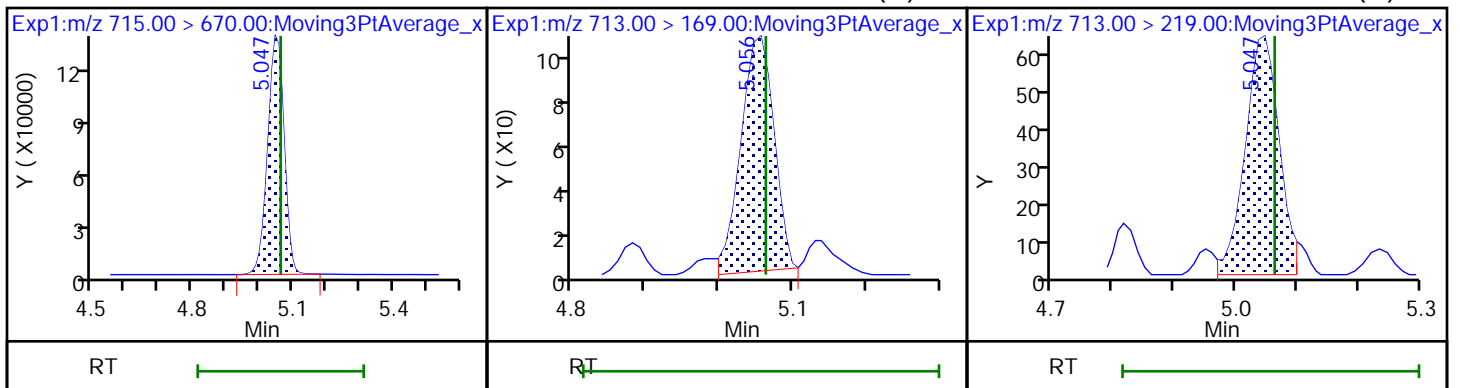
37 Perfluorododecanoic acid (M) 74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



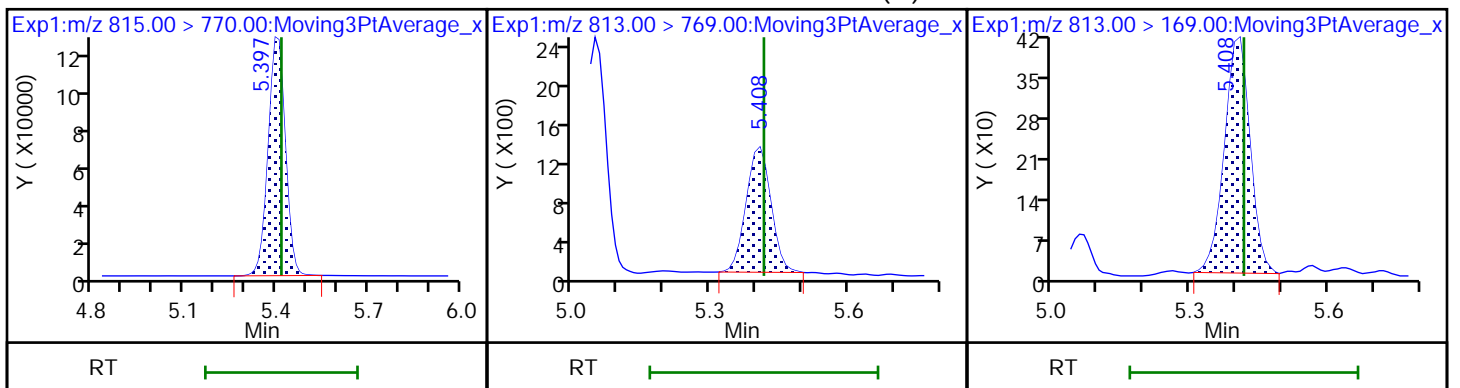
75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M) 41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA 42 Perfluorotetradecanoic acid (M) 42 Perfluorotetradecanoic acid (M)

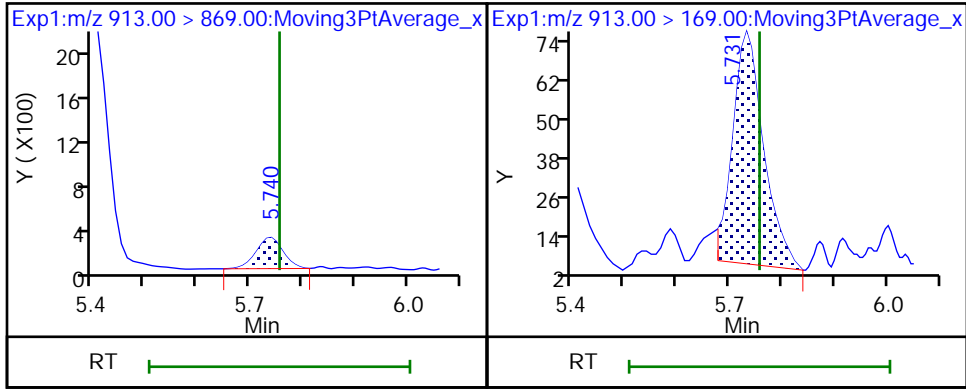


D 44 13C2 PFHxDA 45 Perfluorohexadecanoic acid (M) 45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



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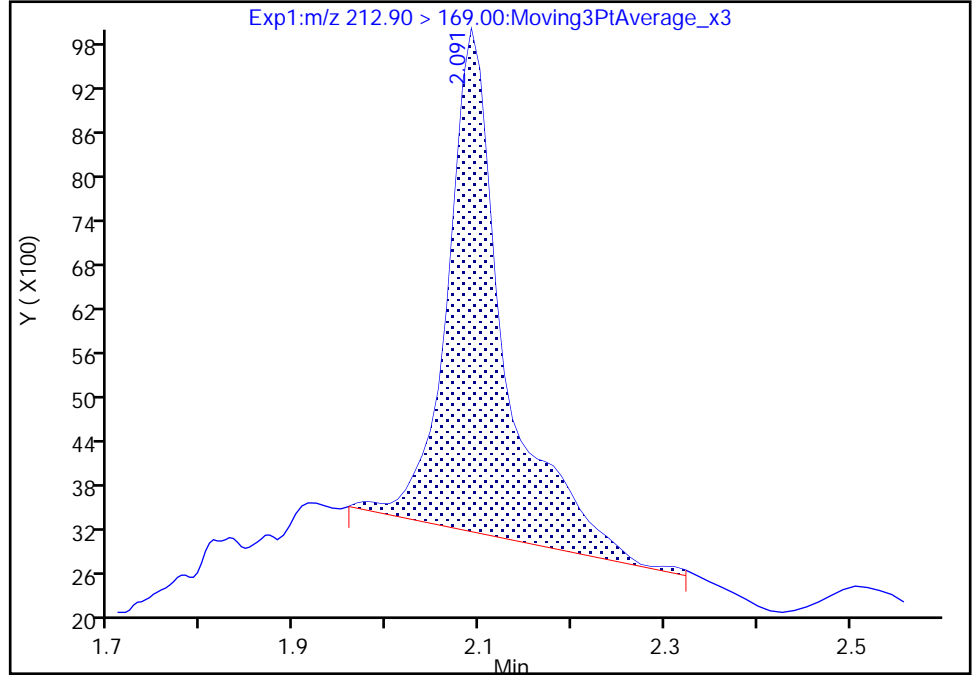
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Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

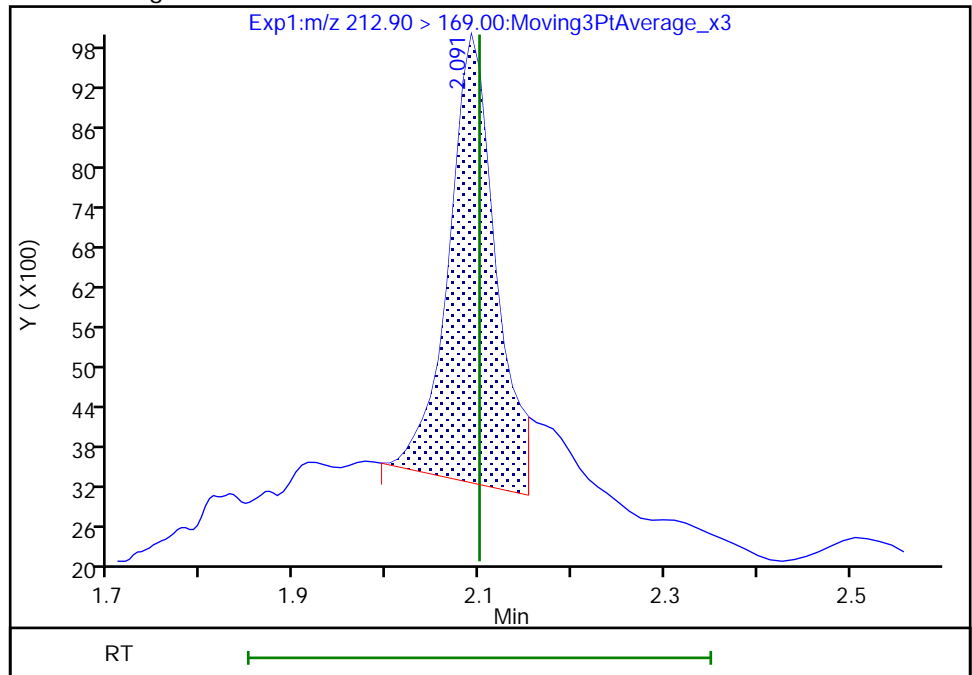
RT: 2.09
Area: 29368
Amount: 0.025819
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 23676
Amount: 0.020815
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:24:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

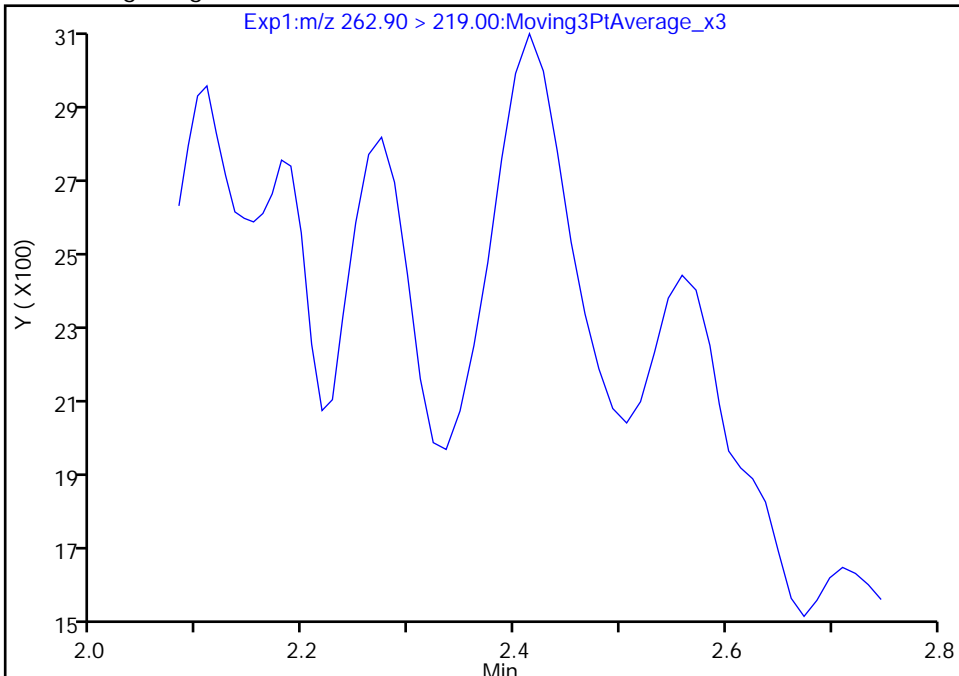
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

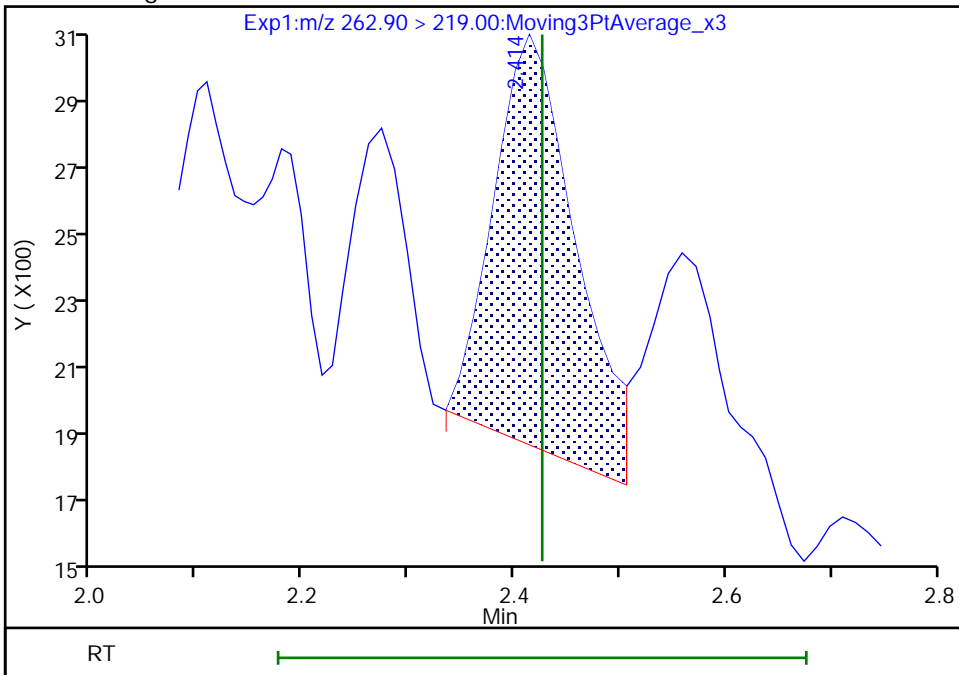
Not Detected
Expected RT: 2.43

Processing Integration Results



Manual Integration Results

RT: 2.41
Area: 6098
Amount: 0.006878
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:24:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

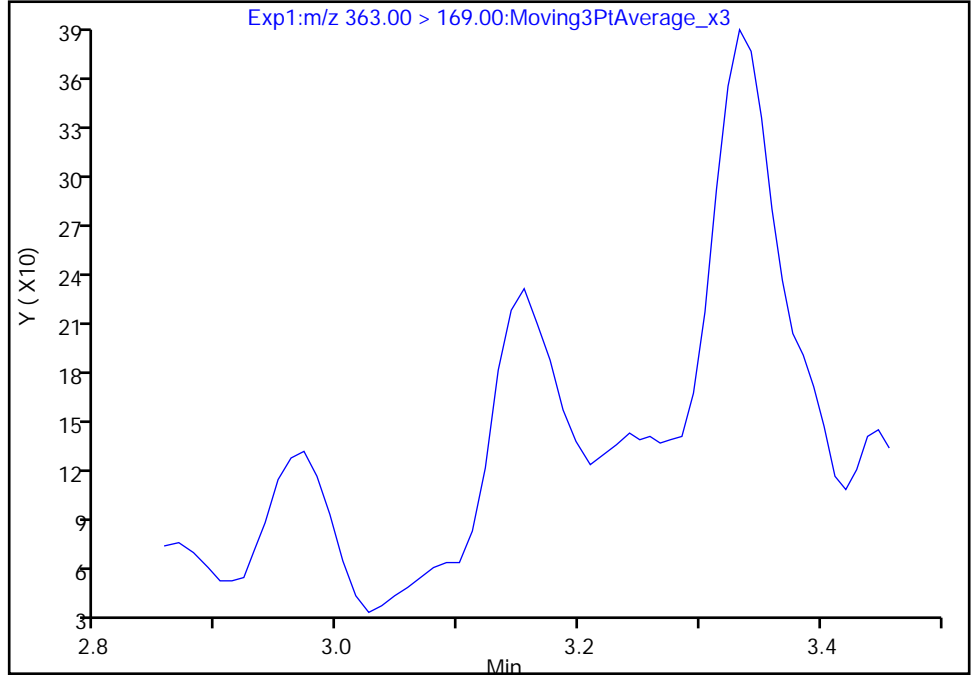
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Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

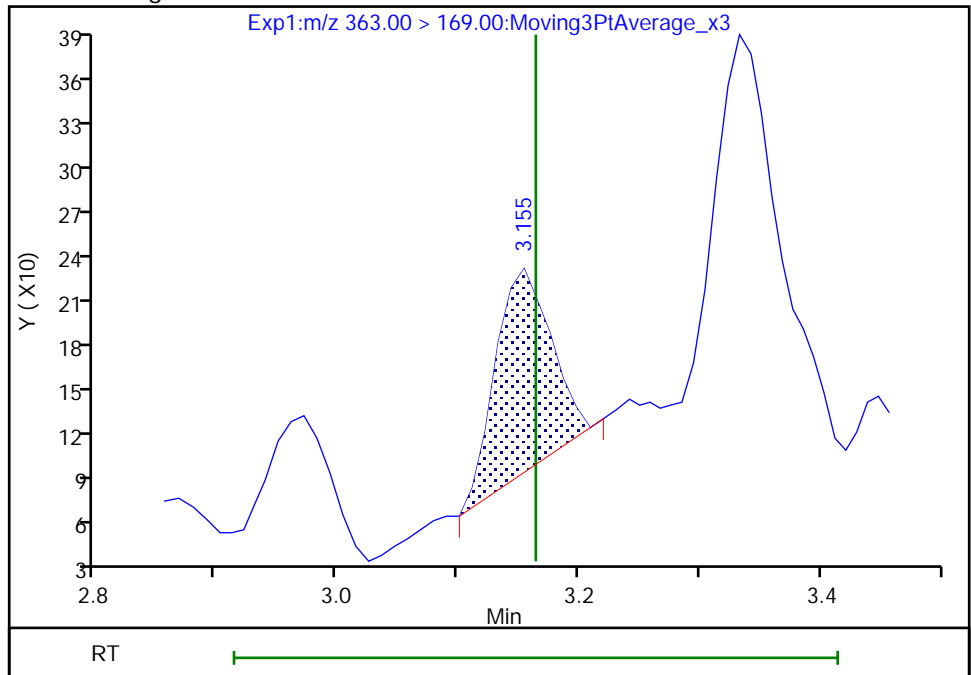
Not Detected
Expected RT: 3.16

Processing Integration Results



Manual Integration Results

RT: 3.15
Area: 436
Amount: 0.001603
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:27:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

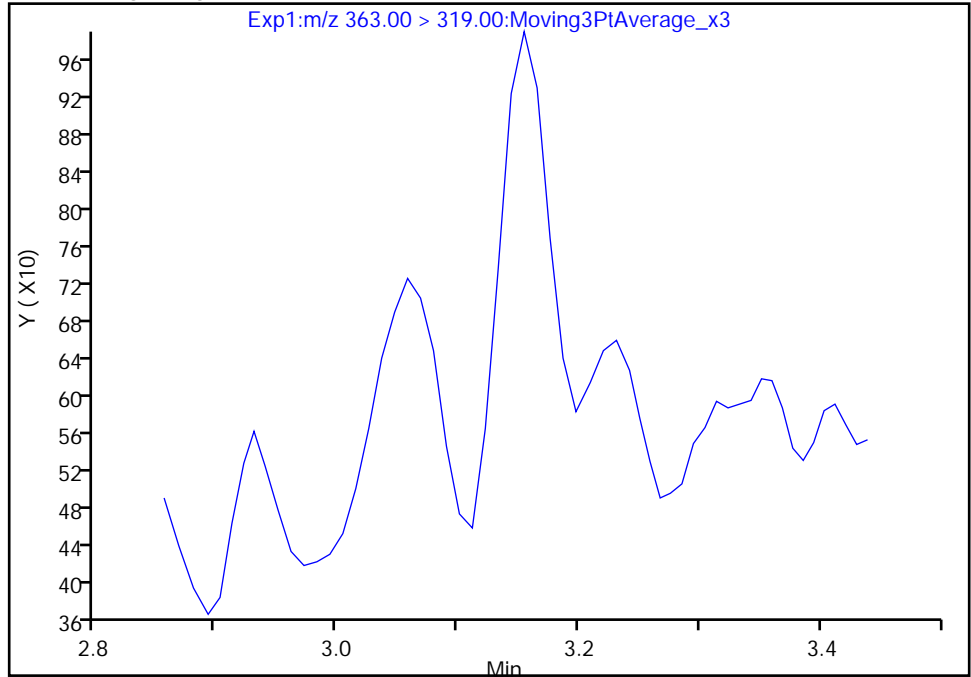
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Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

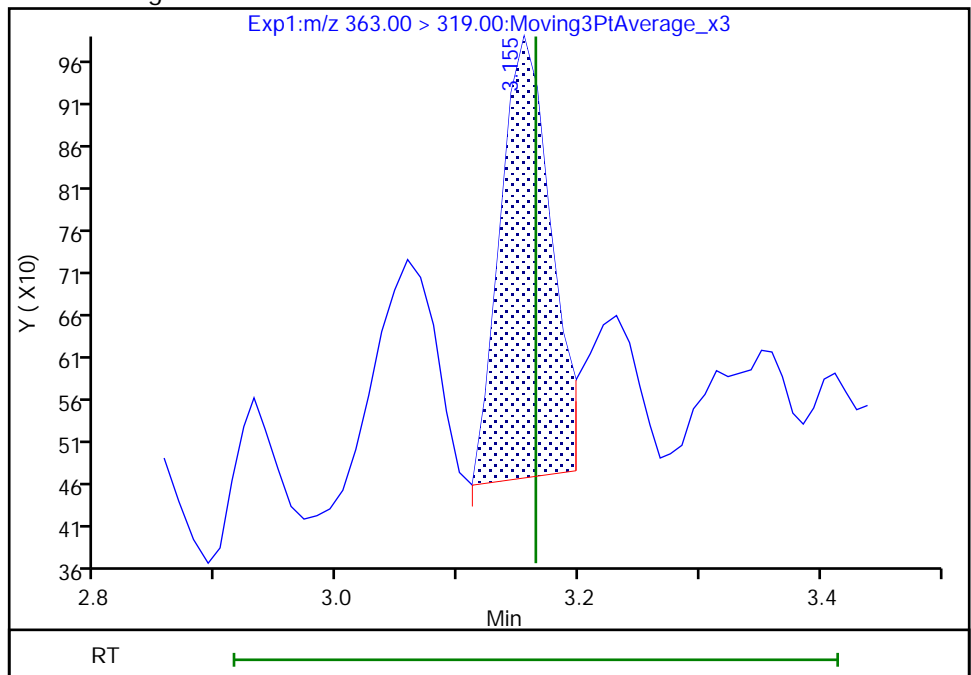
Not Detected
Expected RT: 3.16

Processing Integration Results



Manual Integration Results

RT: 3.15
Area: 1500
Amount: 0.001603
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:27:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

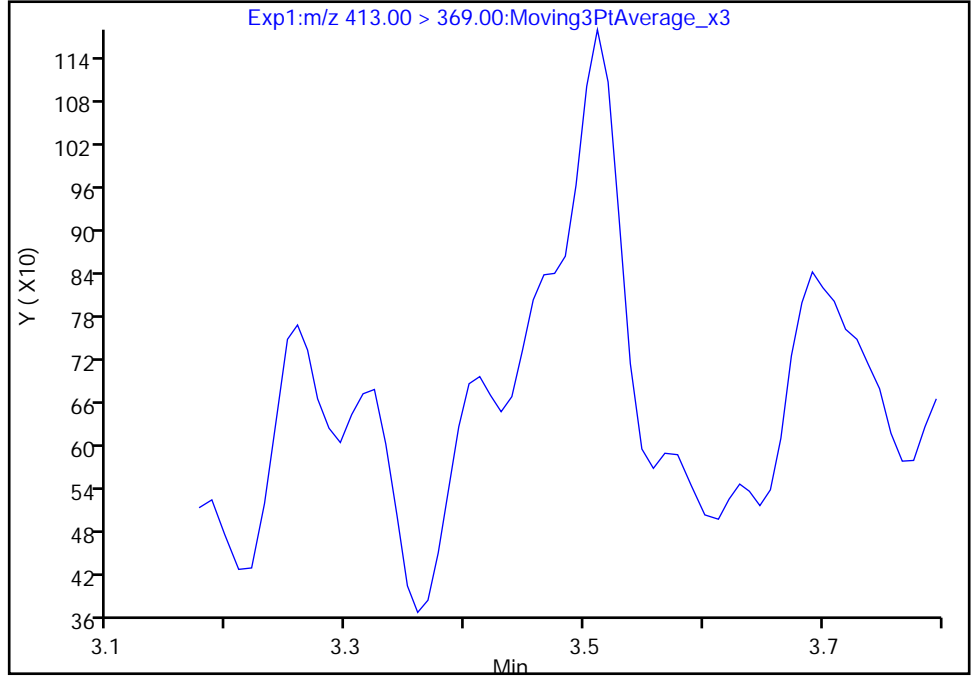
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Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

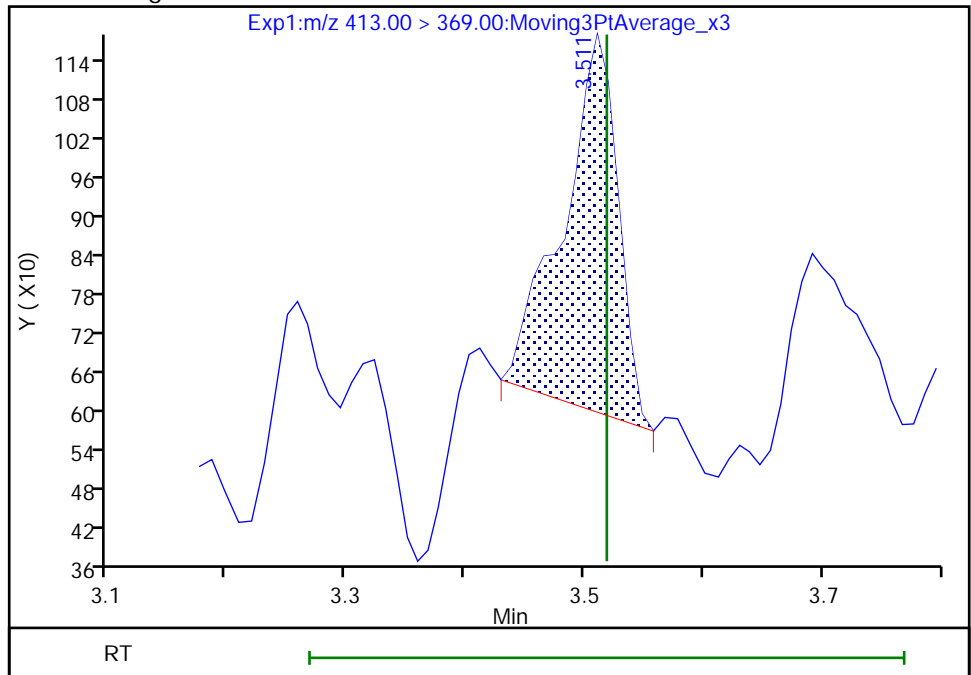
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.51
Area: 1860
Amount: 0.001873
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:28:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

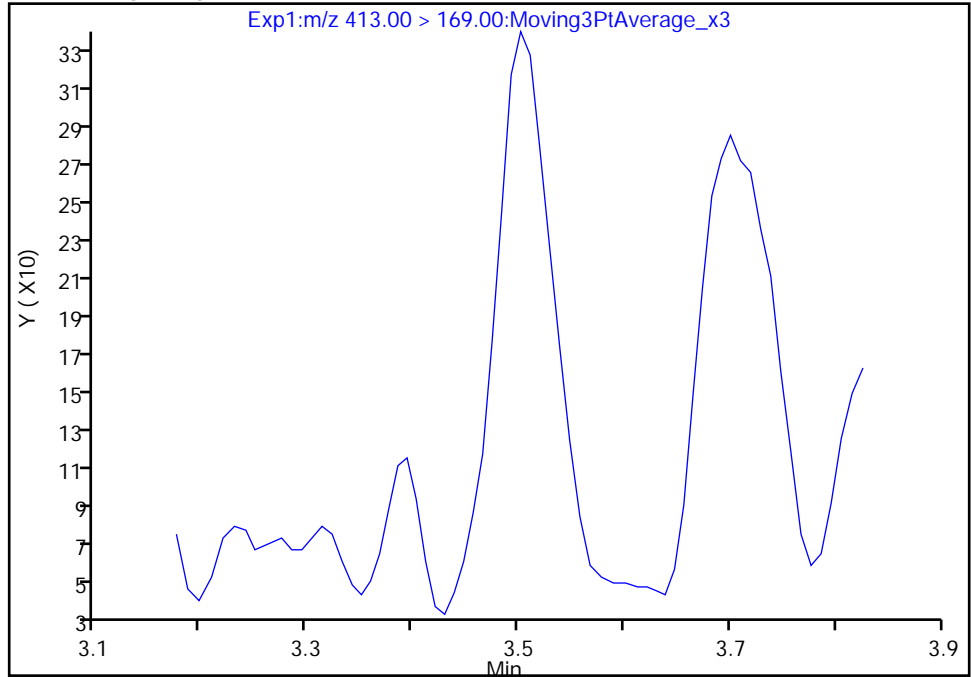
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Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

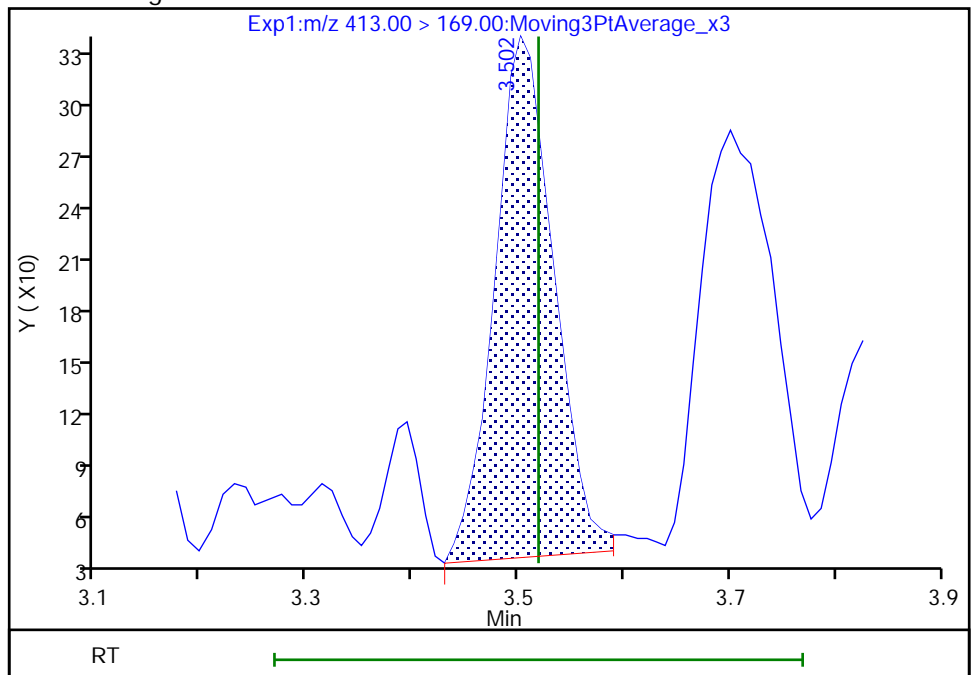
Not Detected
Expected RT: 3.52

Processing Integration Results



RT: 3.50
Area: 1139
Amount: 0.001873
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:29:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

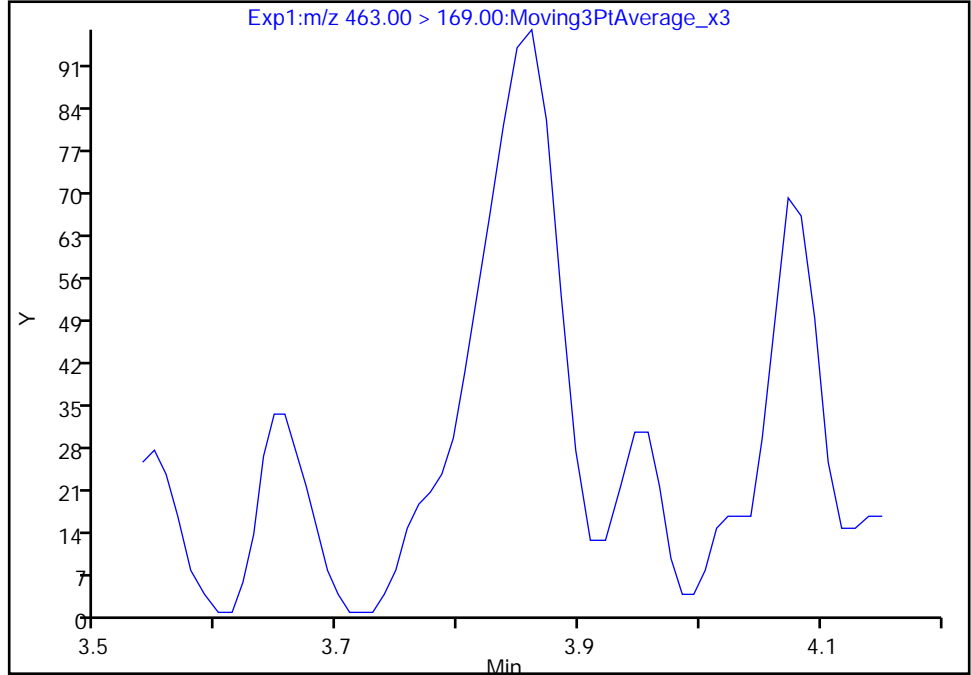
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

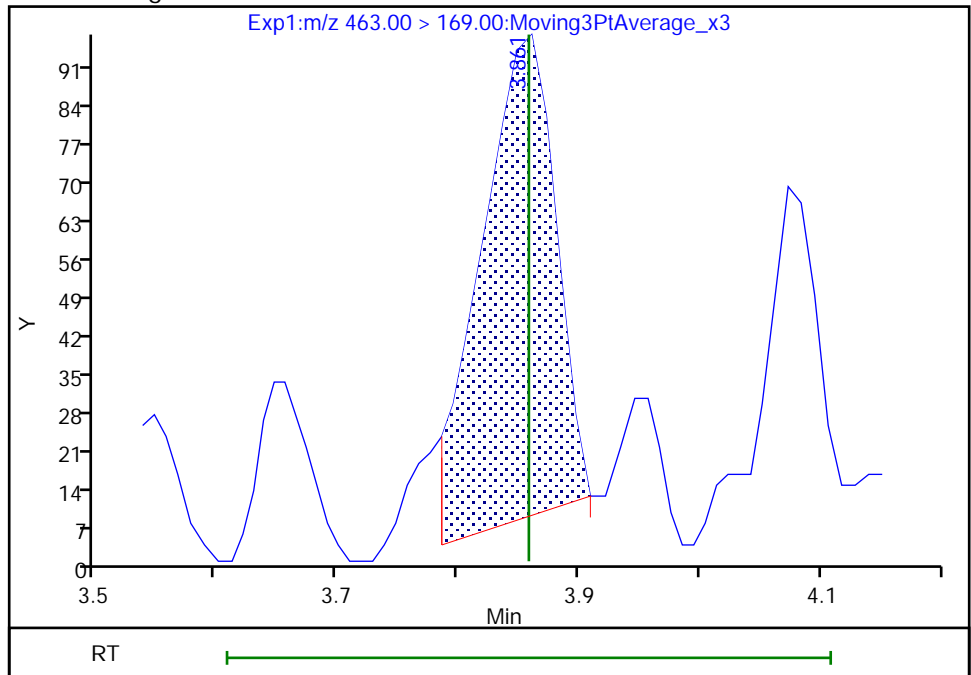
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.86
Area: 381
Amount: 0.001022
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:30:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

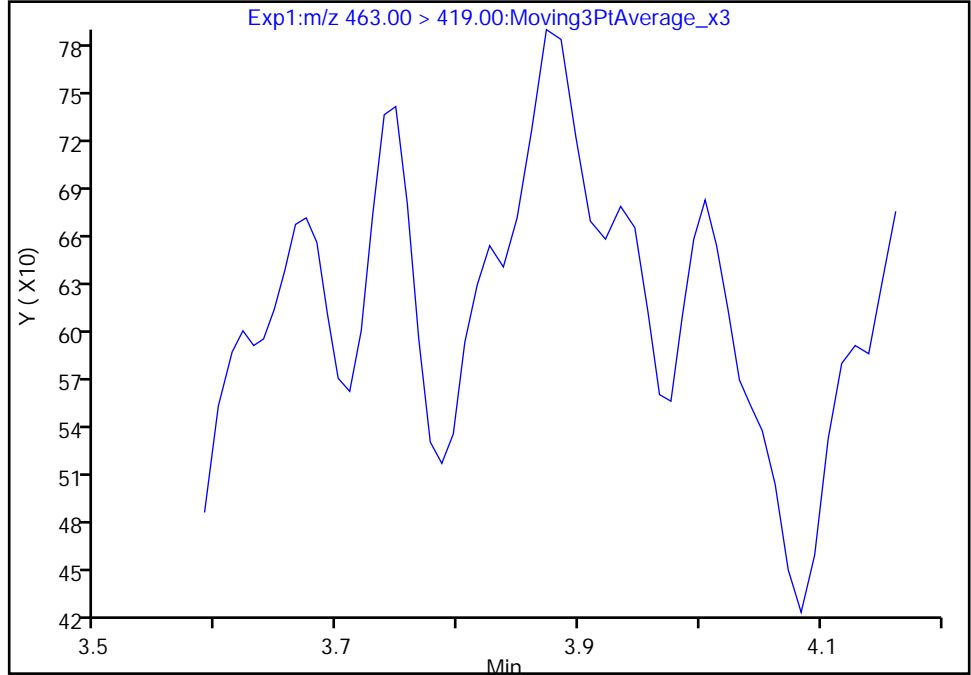
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

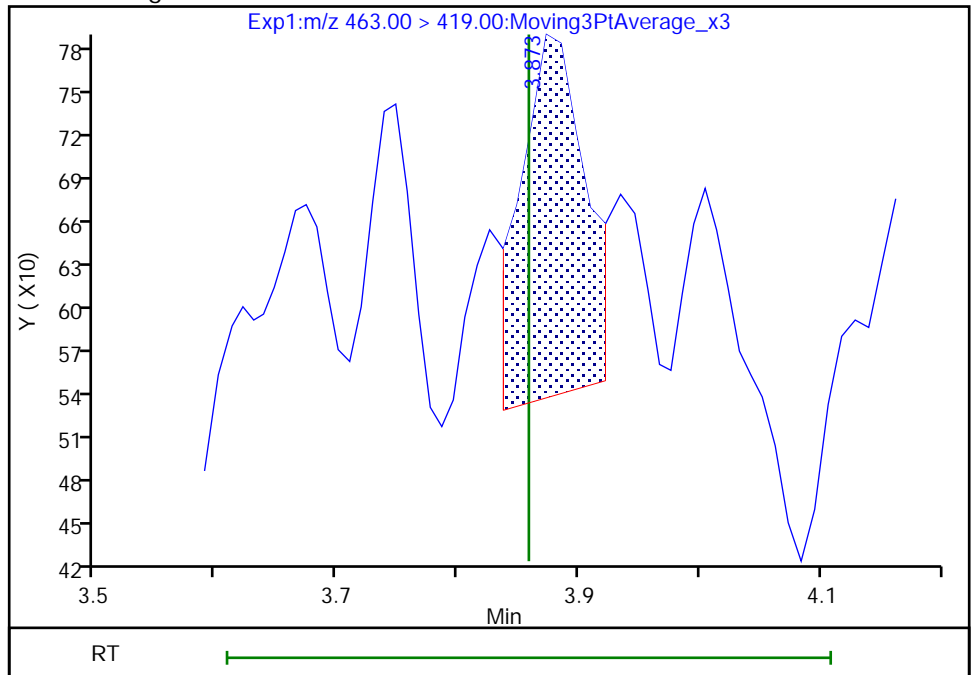
Not Detected
Expected RT: 3.86

Processing Integration Results



Manual Integration Results

RT: 3.87
Area: 876
Amount: 0.001022
Amount Units: ng/ml



Euofins TestAmerica, Burlington

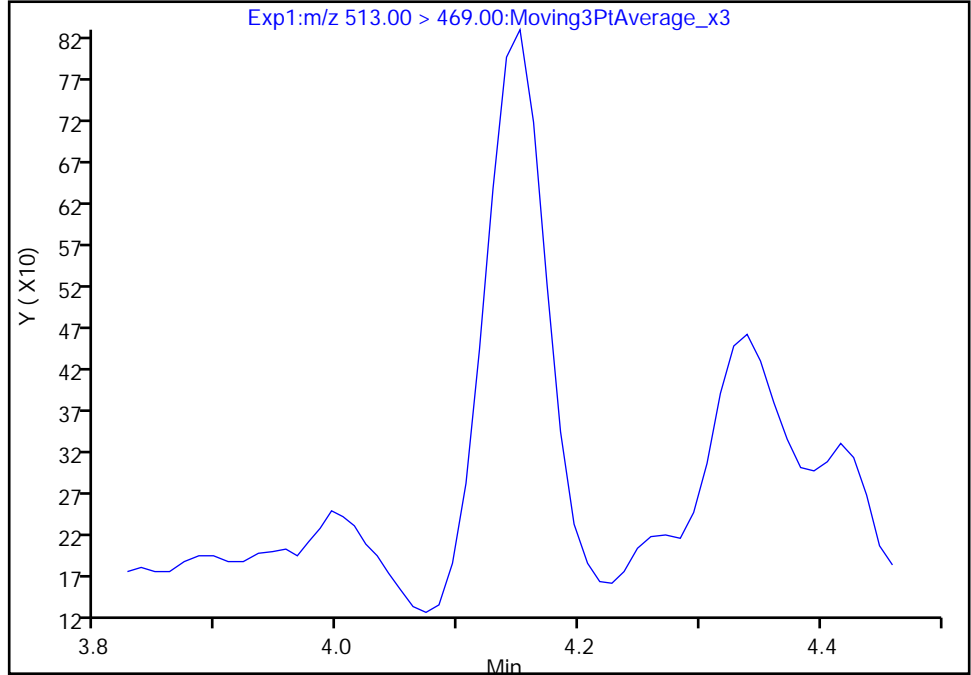
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Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

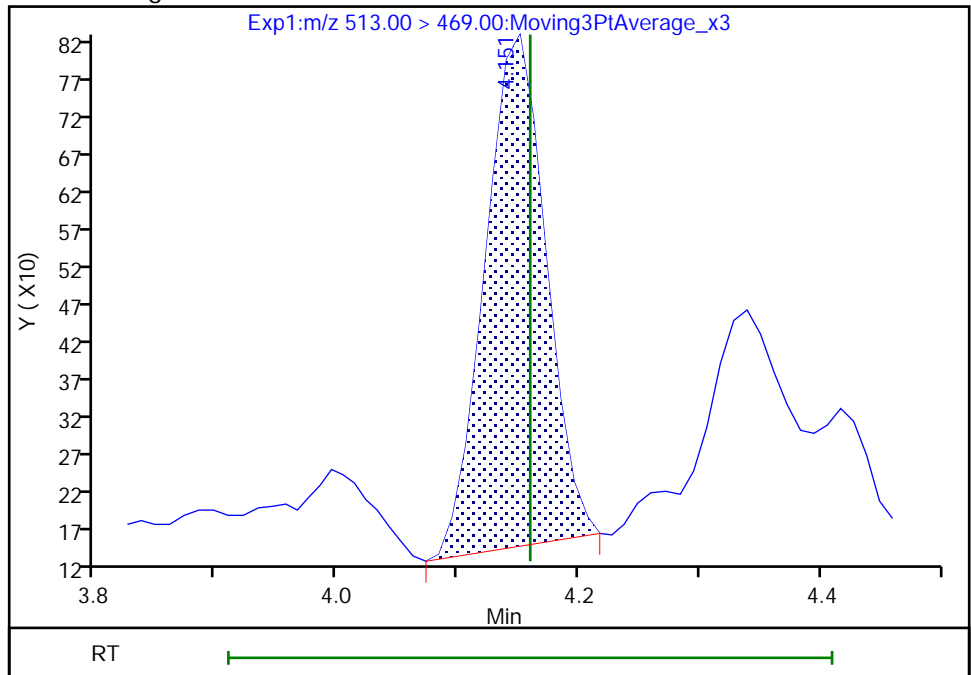
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 2387
Amount: 0.002802
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:30:40
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

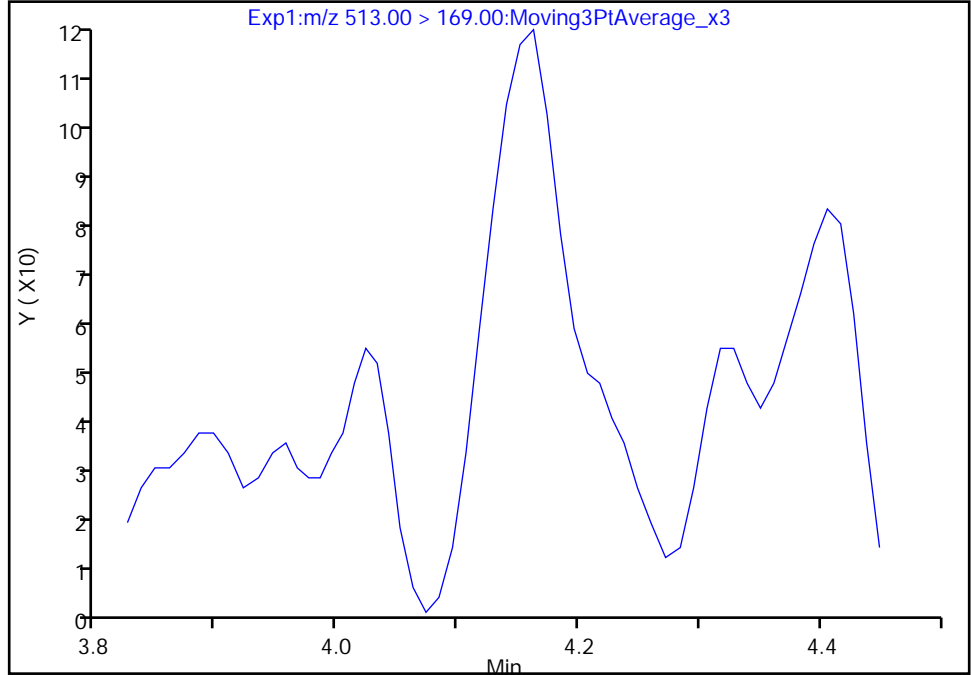
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

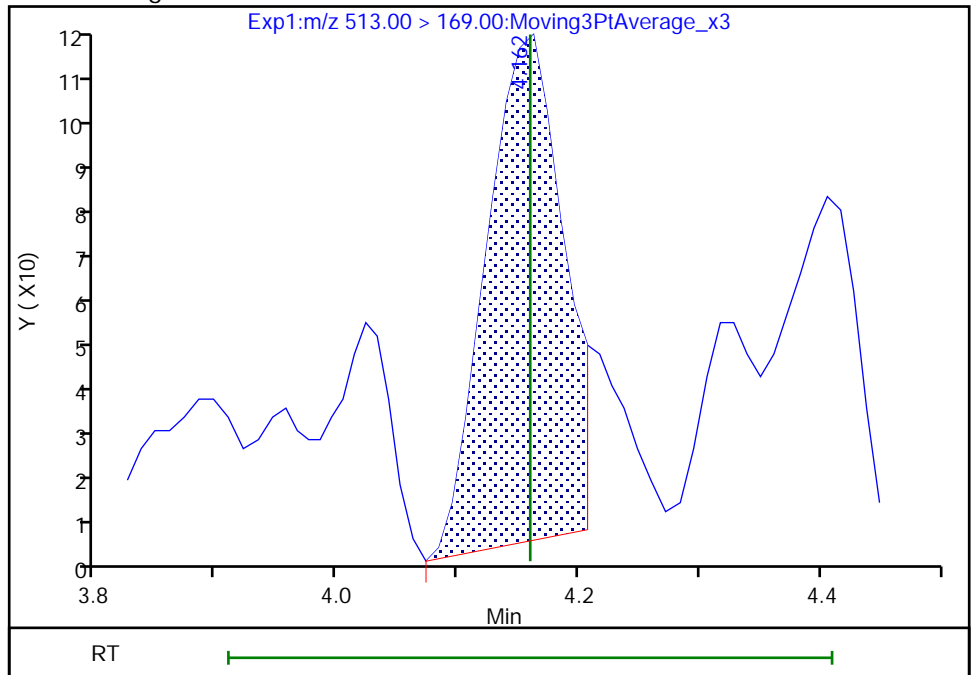
Not Detected
Expected RT: 4.16

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 492
Amount: 0.002802
Amount Units: ng/ml



Reviewer: nampitkw, 24-May-2021 08:30:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

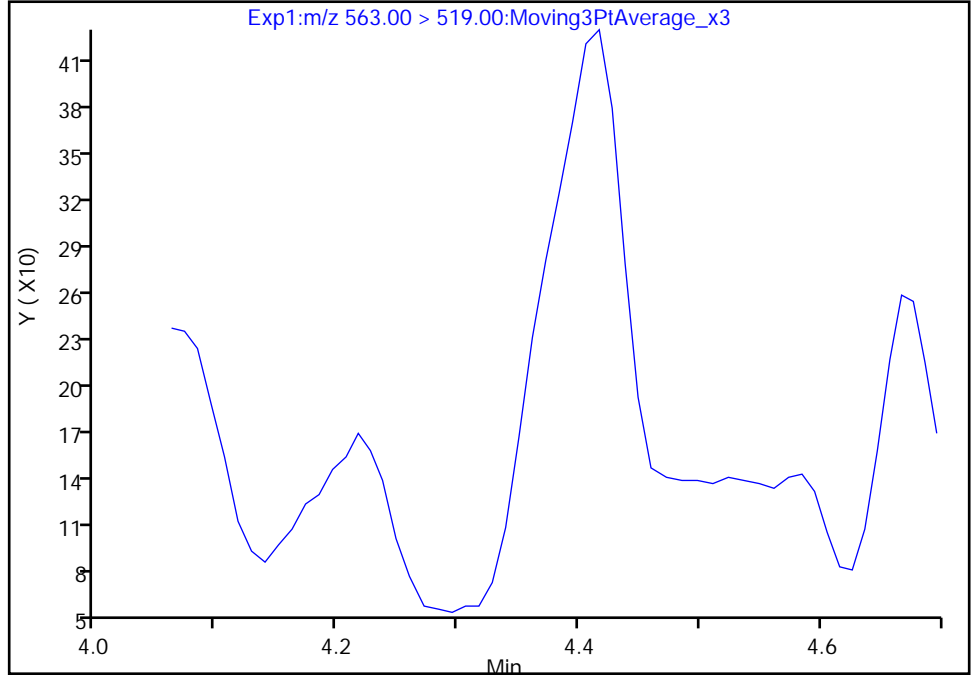
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Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

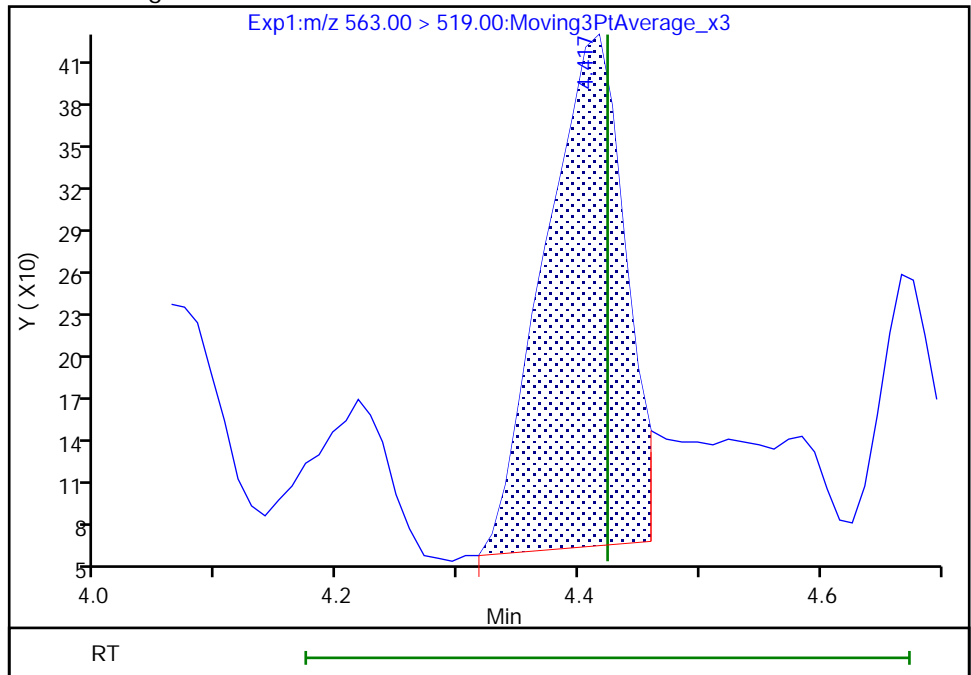
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.42
Area: 1649
Amount: 0.003046
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:31:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

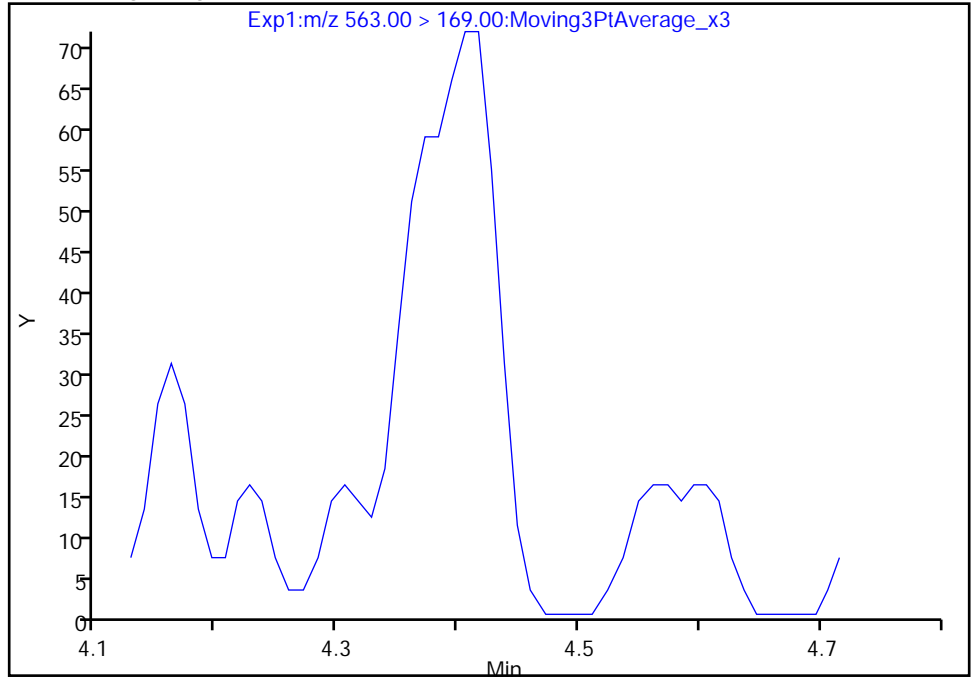
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

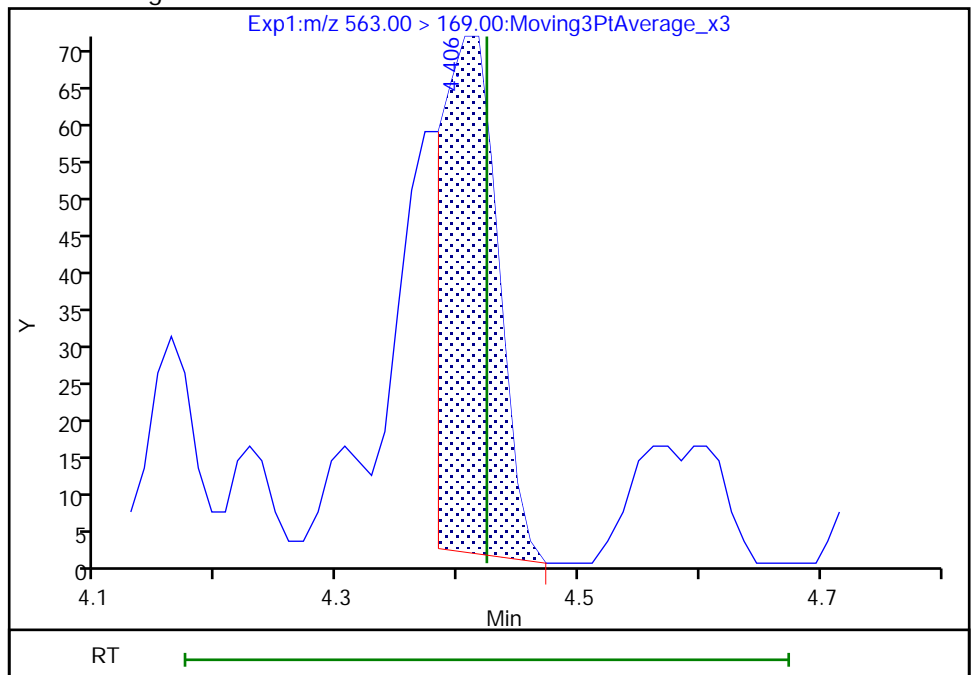
Not Detected
Expected RT: 4.42

Processing Integration Results



Manual Integration Results

RT: 4.41
Area: 217
Amount: 0.003046
Amount Units: ng/ml



Euofins TestAmerica, Burlington

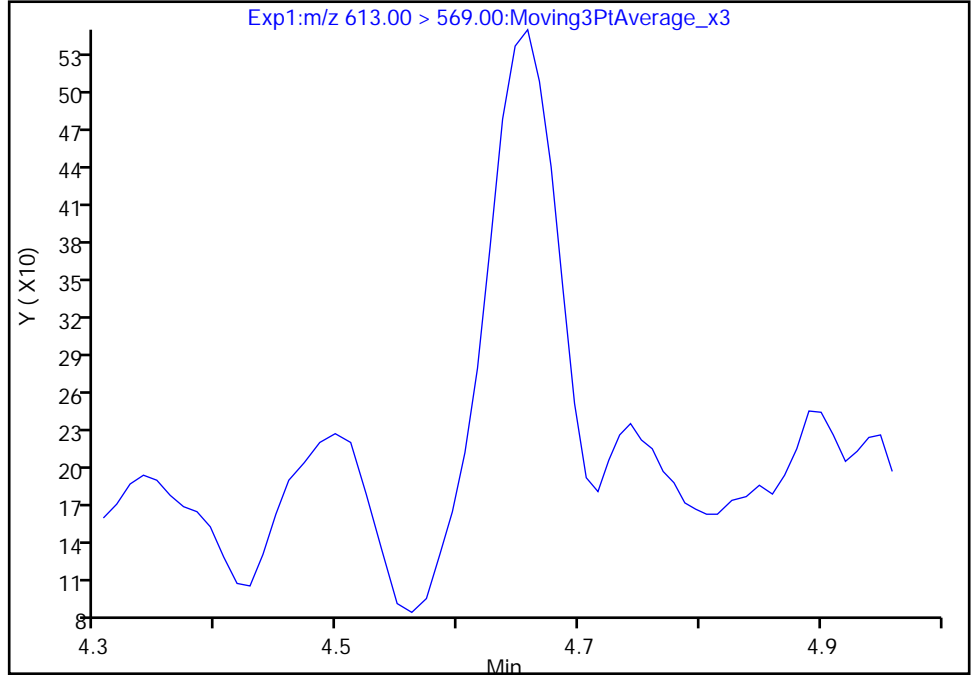
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

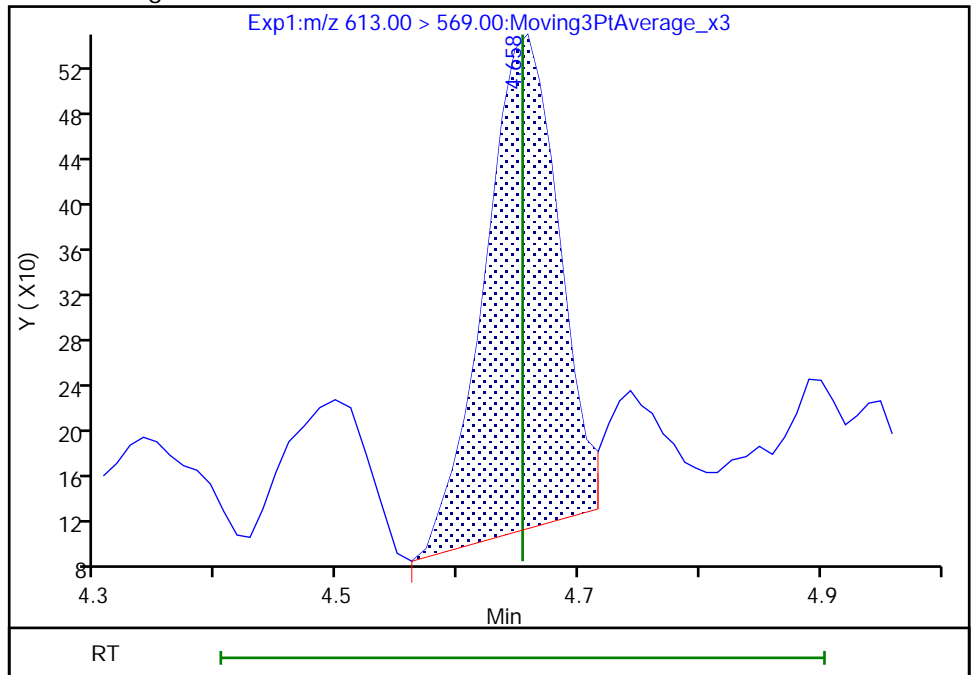
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.66
Area: 1847
Amount: 0.003573
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:32:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

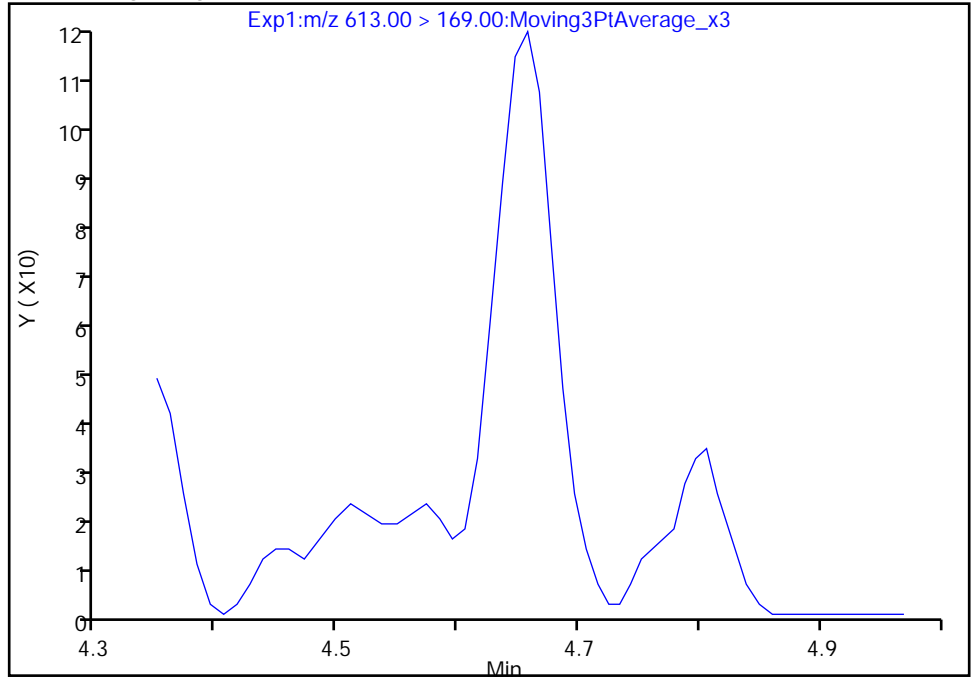
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

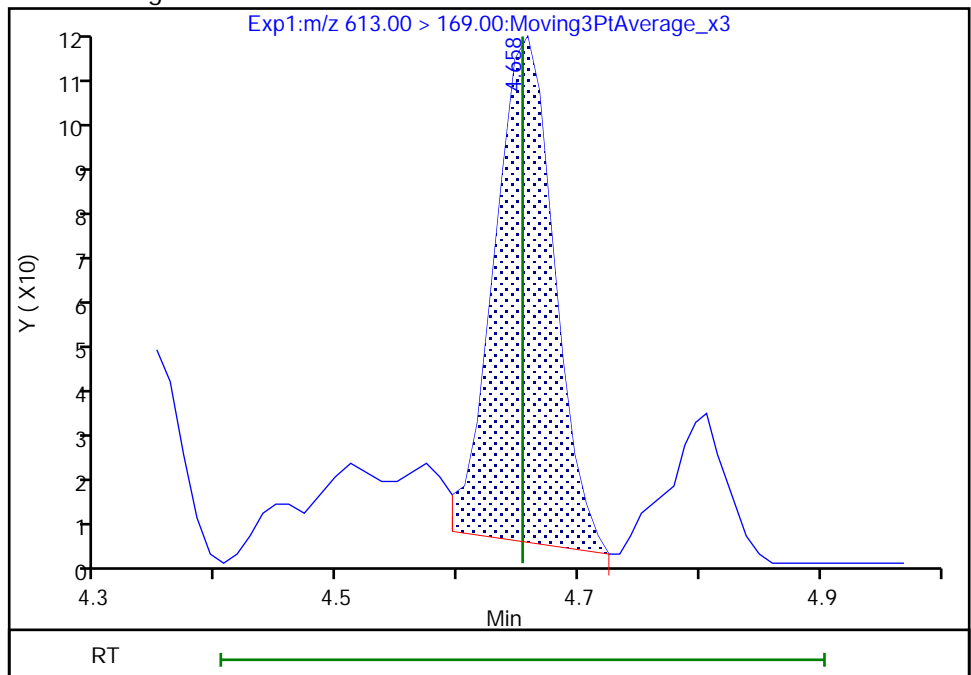
Not Detected
Expected RT: 4.65

Processing Integration Results



RT: 4.66
Area: 383
Amount: 0.003573
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:32:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

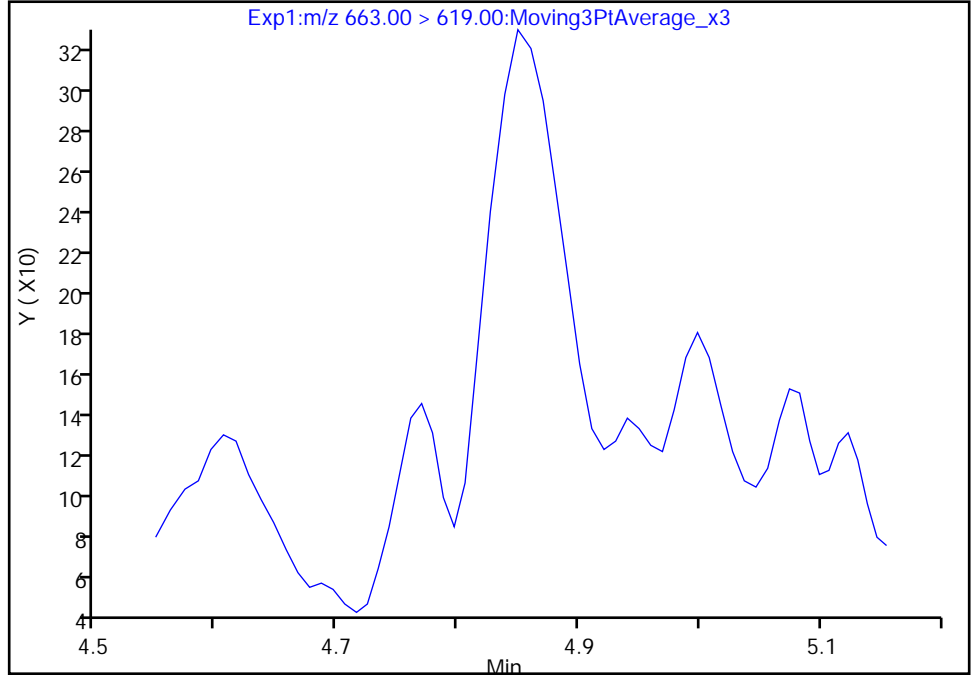
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

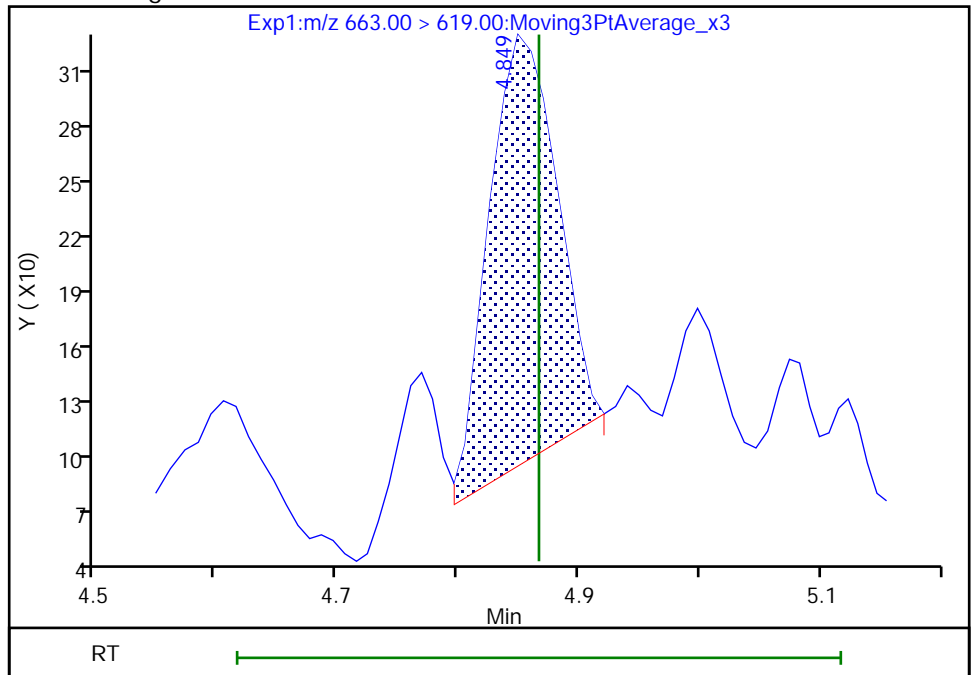
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.85
Area: 892
Amount: 0.002140
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:33:19
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

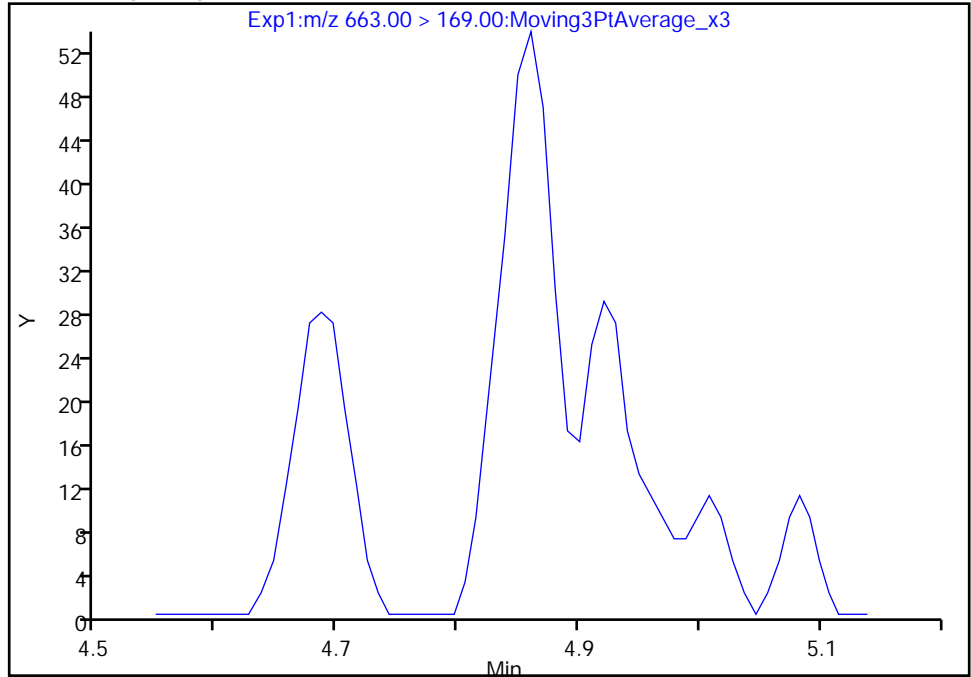
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

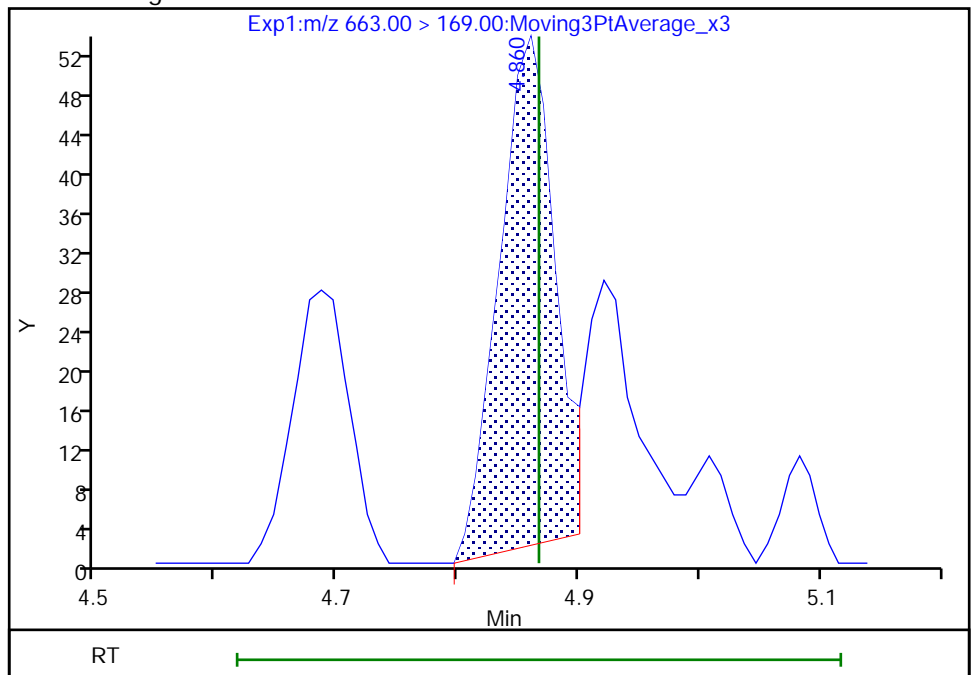
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.86
Area: 165
Amount: 0.002140
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:33:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

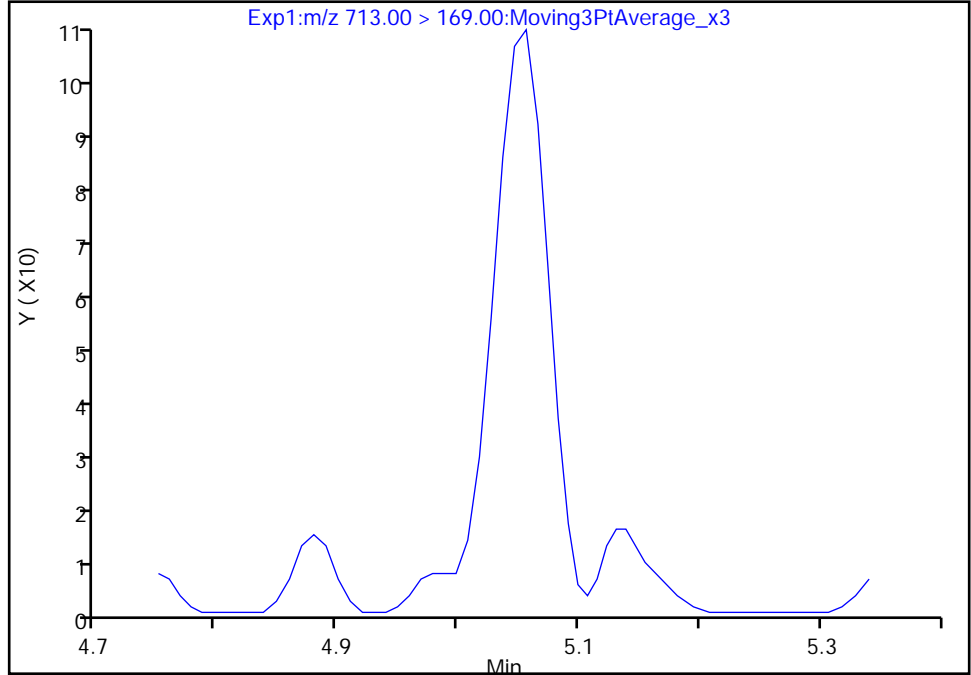
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

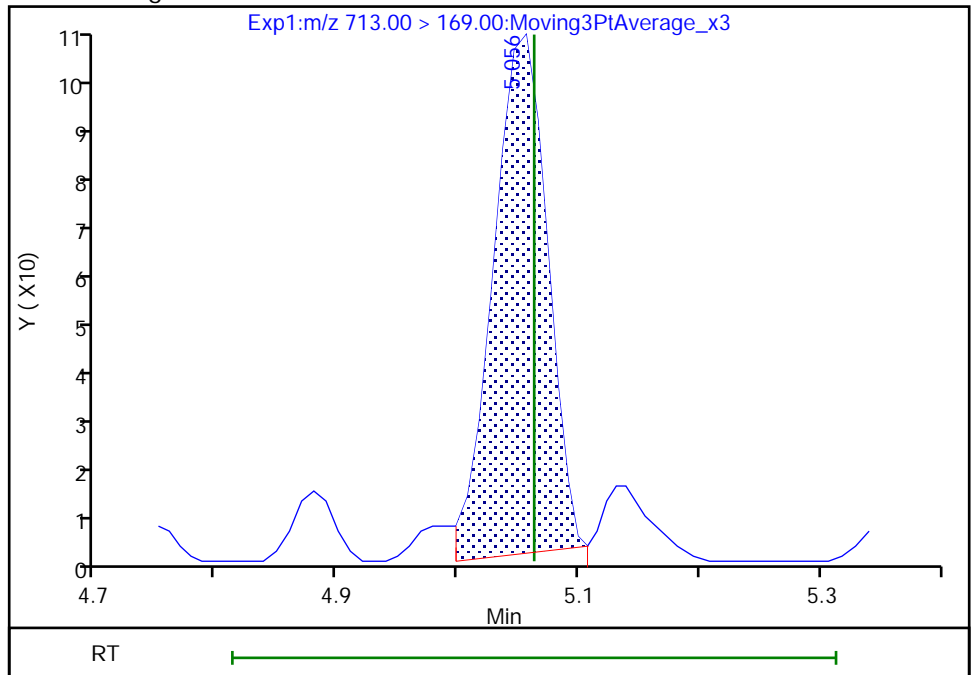
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.06
Area: 322
Amount: 0.004357
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:33:38
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

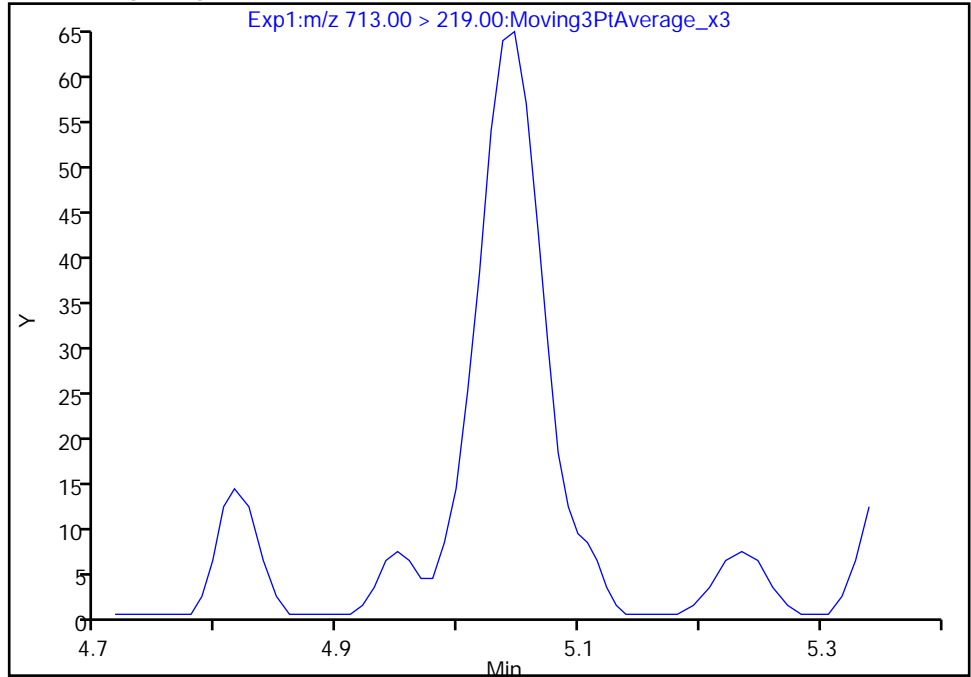
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

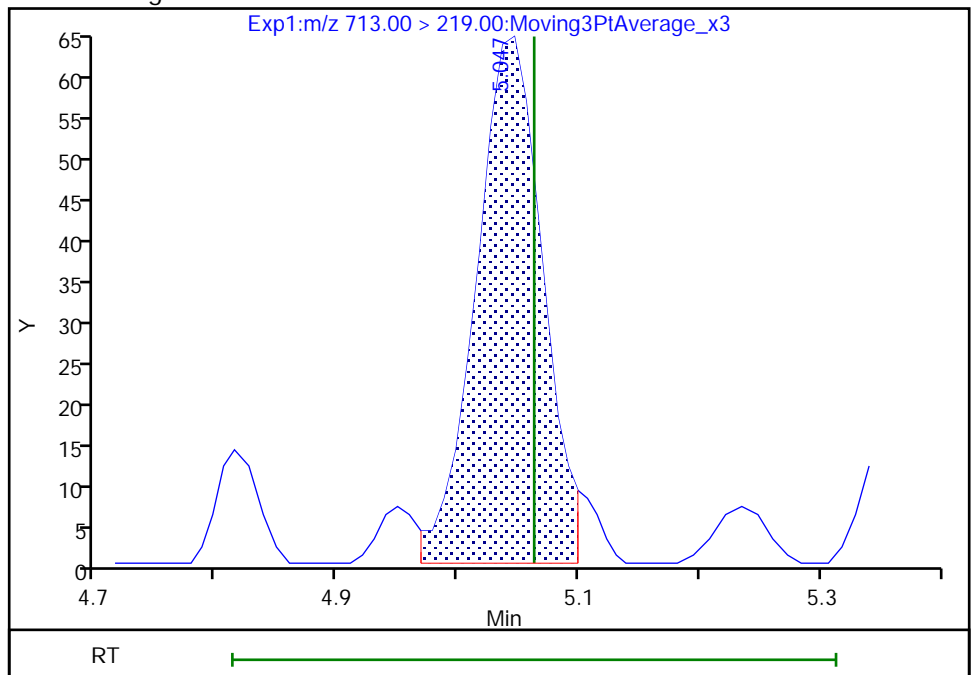
Not Detected
Expected RT: 5.06

Processing Integration Results



Manual Integration Results

RT: 5.05
Area: 247
Amount: 0.004357
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:33:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

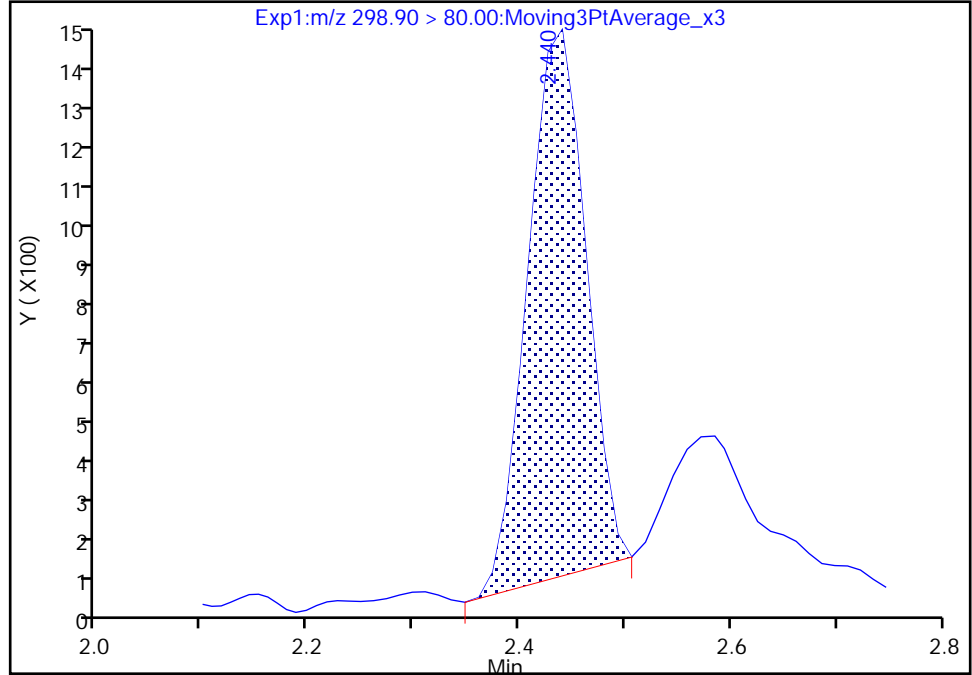
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

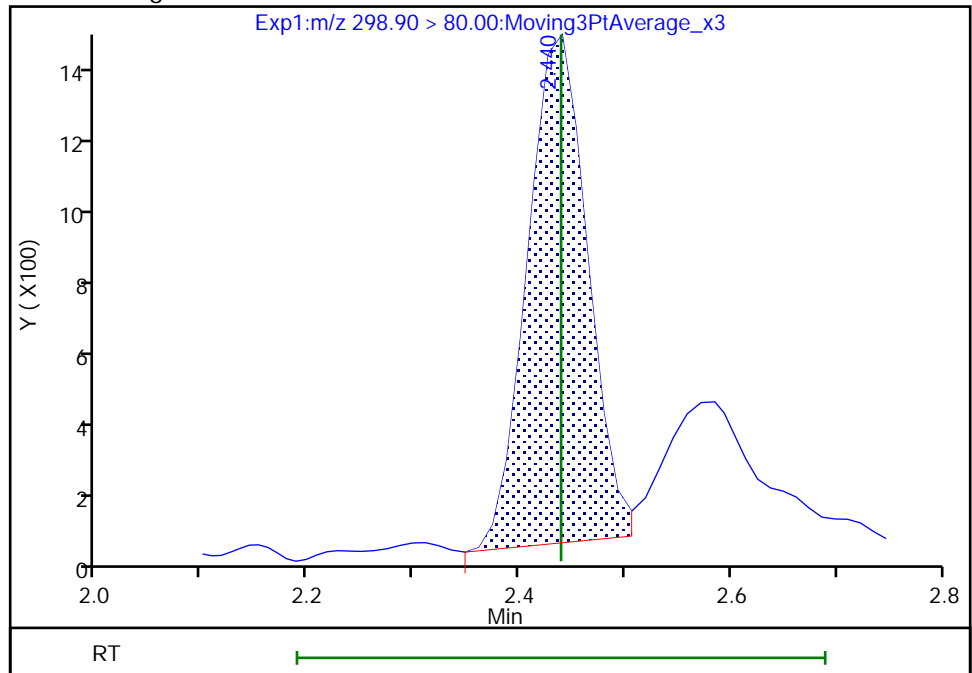
RT: 2.44
Area: 5187
Amount: 0.004652
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 5509
Amount: 0.004941
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:25:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

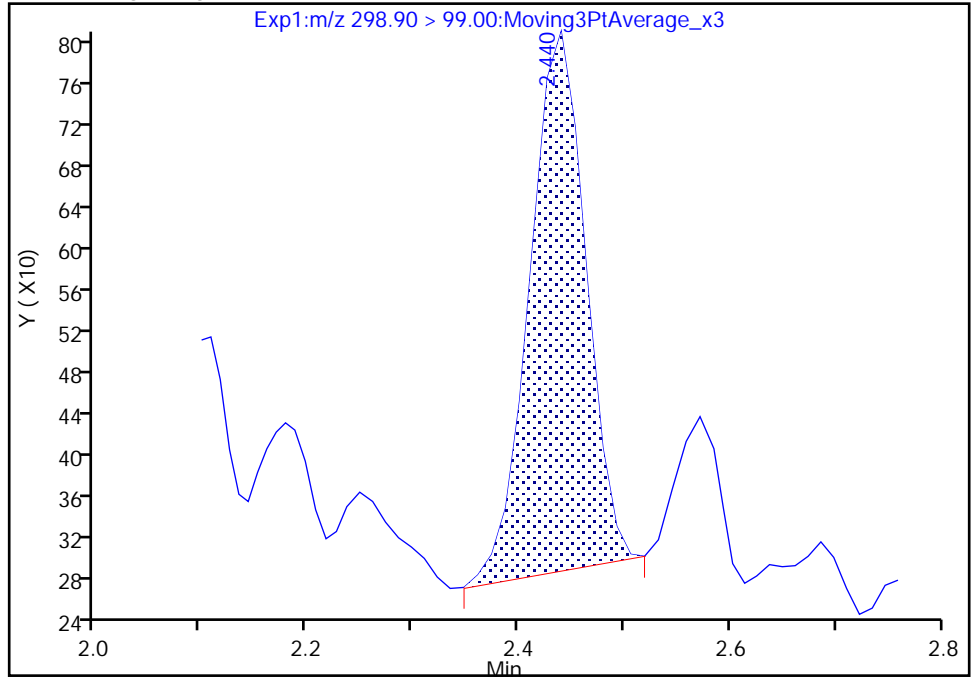
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

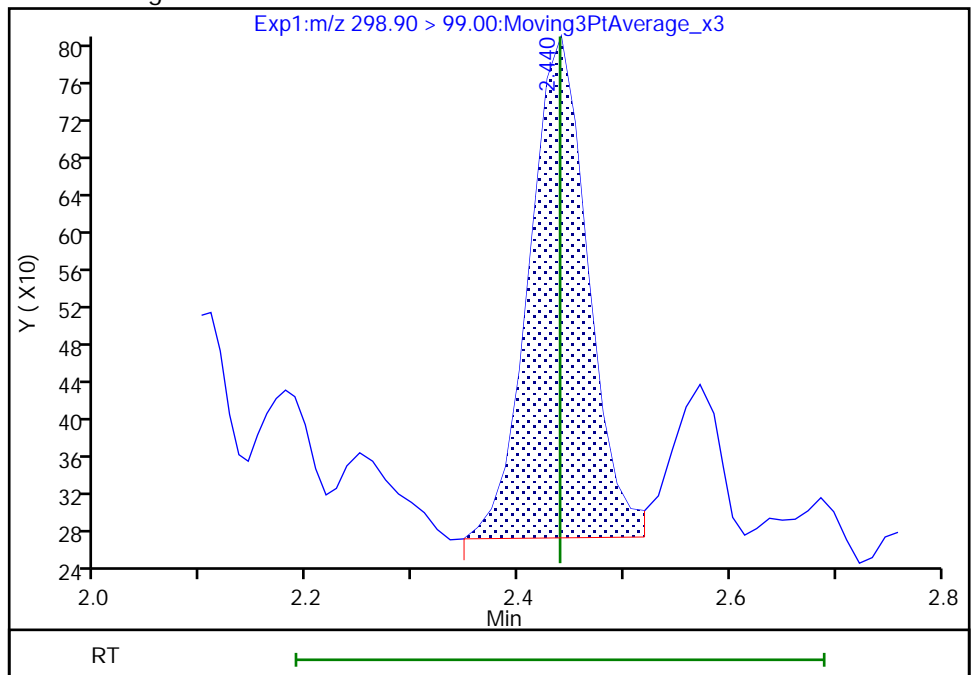
RT: 2.44
Area: 1926
Amount: 0.004652
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 2064
Amount: 0.004941
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:25:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

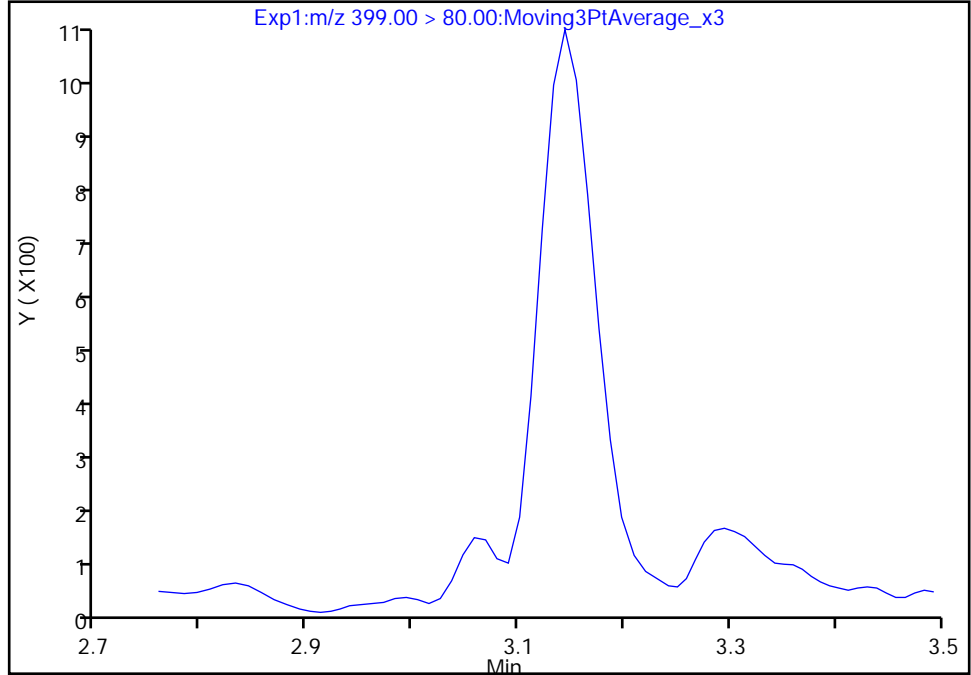
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

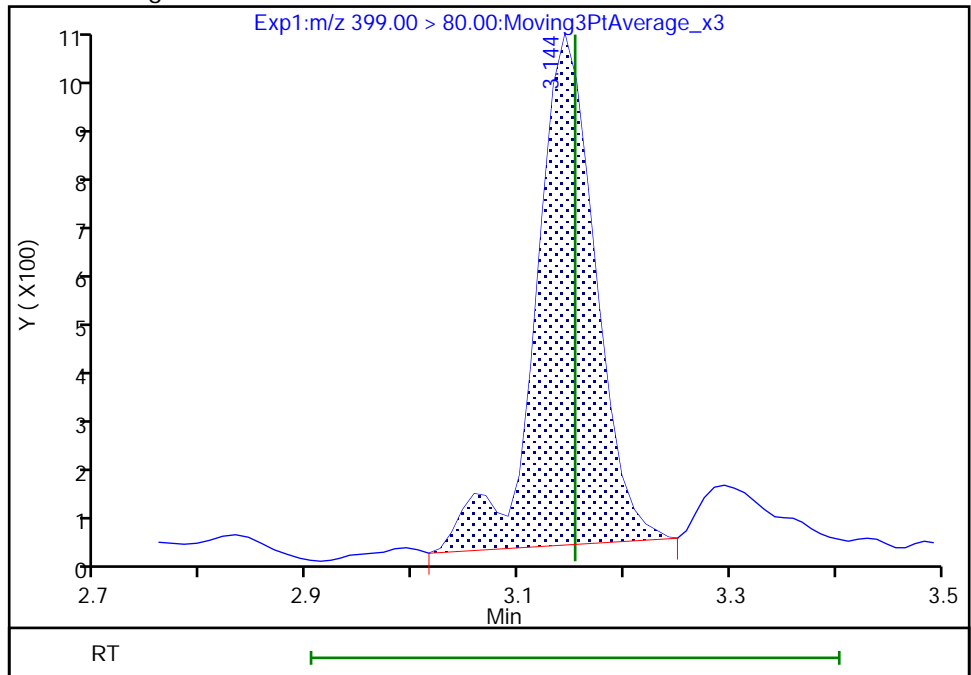
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.14
Area: 4028
Amount: 0.004456
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:26:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

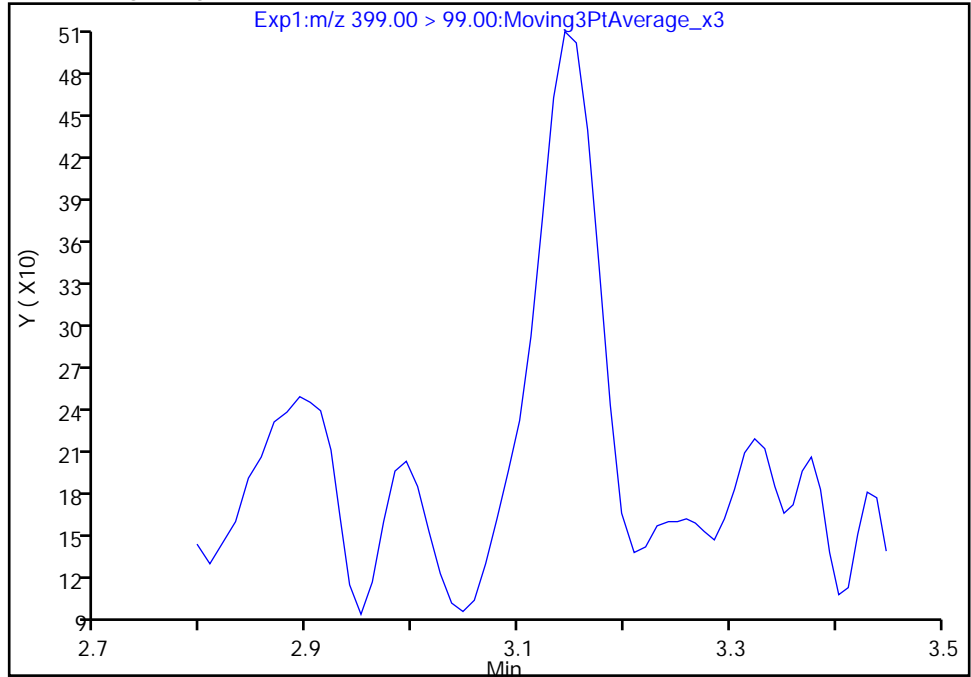
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

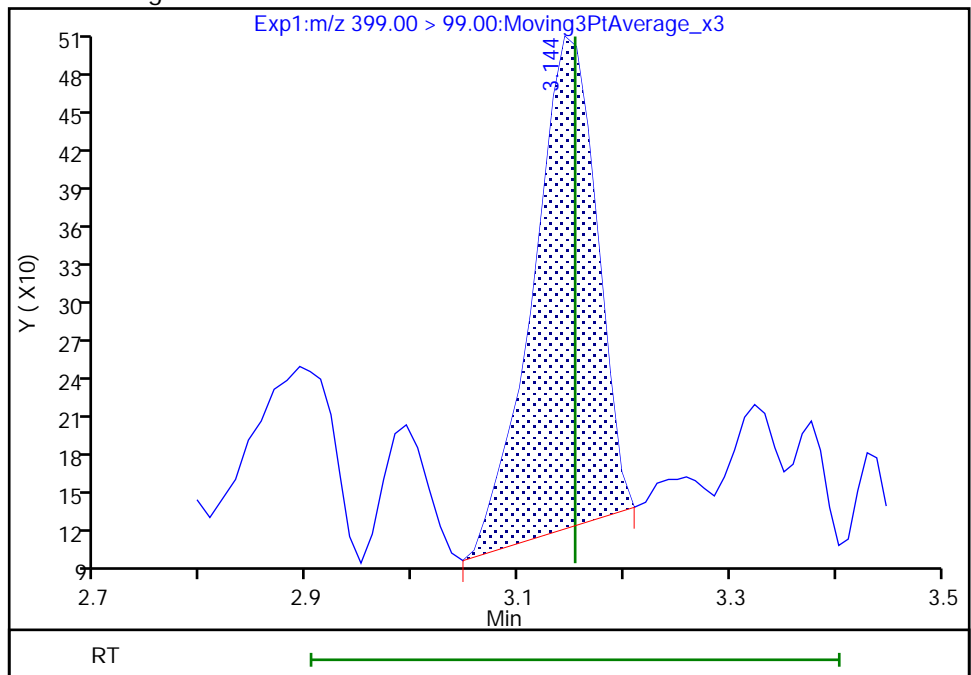
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.14
Area: 1621
Amount: 0.004456
Amount Units: ng/ml



Reviewer: nampitkw, 24-May-2021 08:26:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

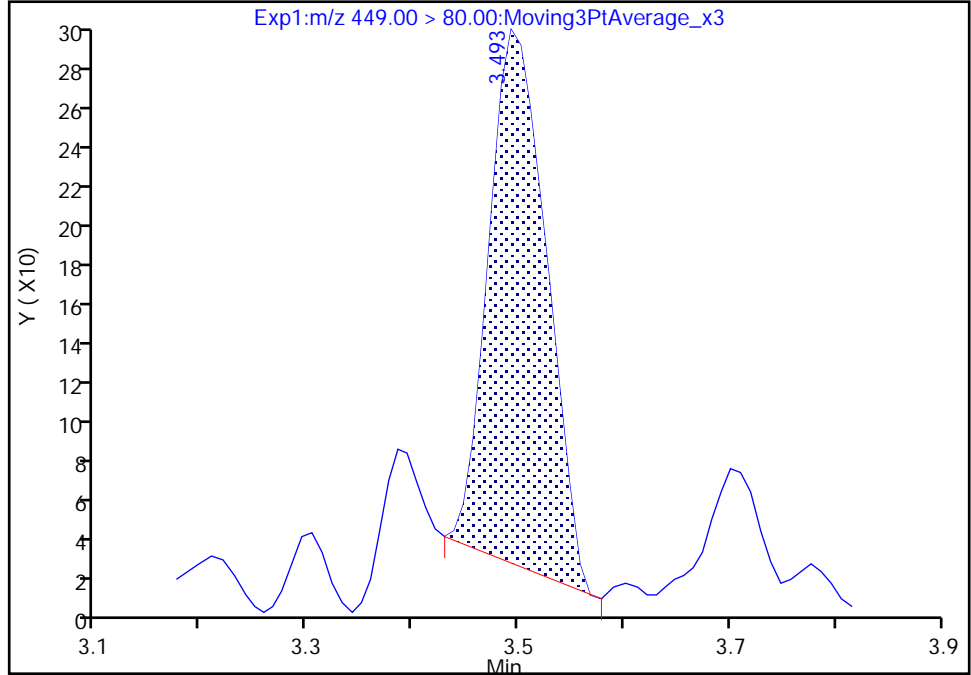
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

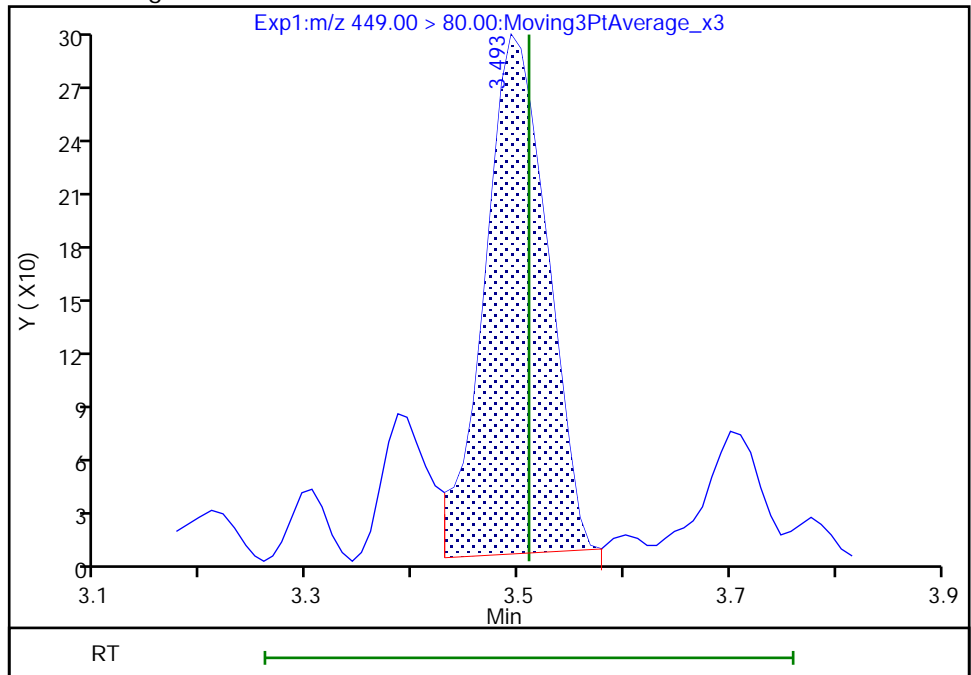
RT: 3.49
Area: 1046
Amount: 0.001377
Amount Units: ng/ml

Processing Integration Results



RT: 3.49
Area: 1211
Amount: 0.001595
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:28:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

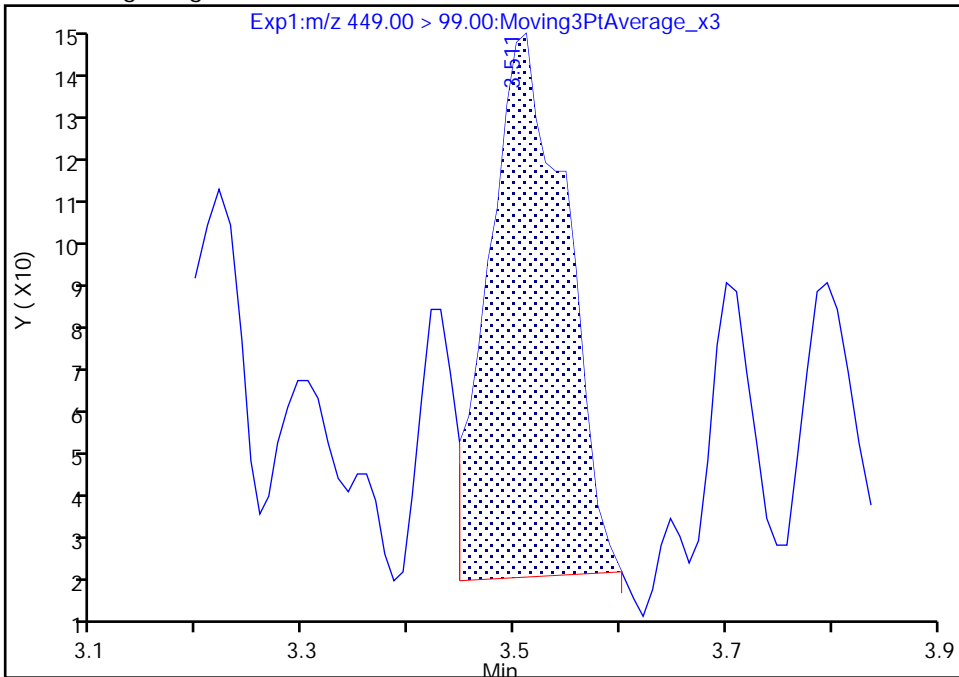
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

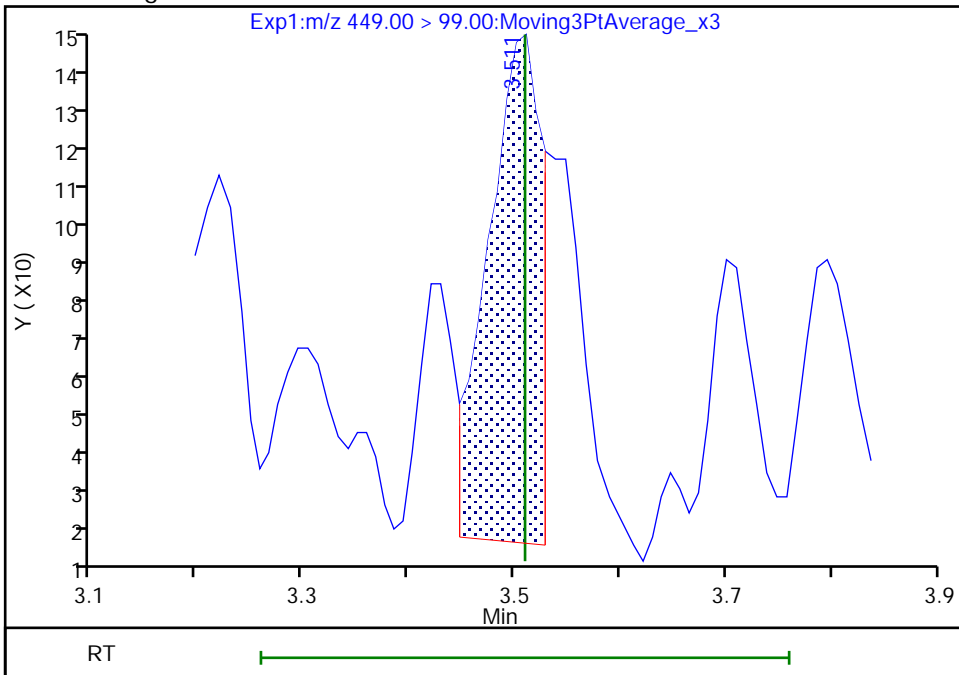
RT: 3.51
Area: 619
Amount: 0.001377
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 427
Amount: 0.001595
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 08:28:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

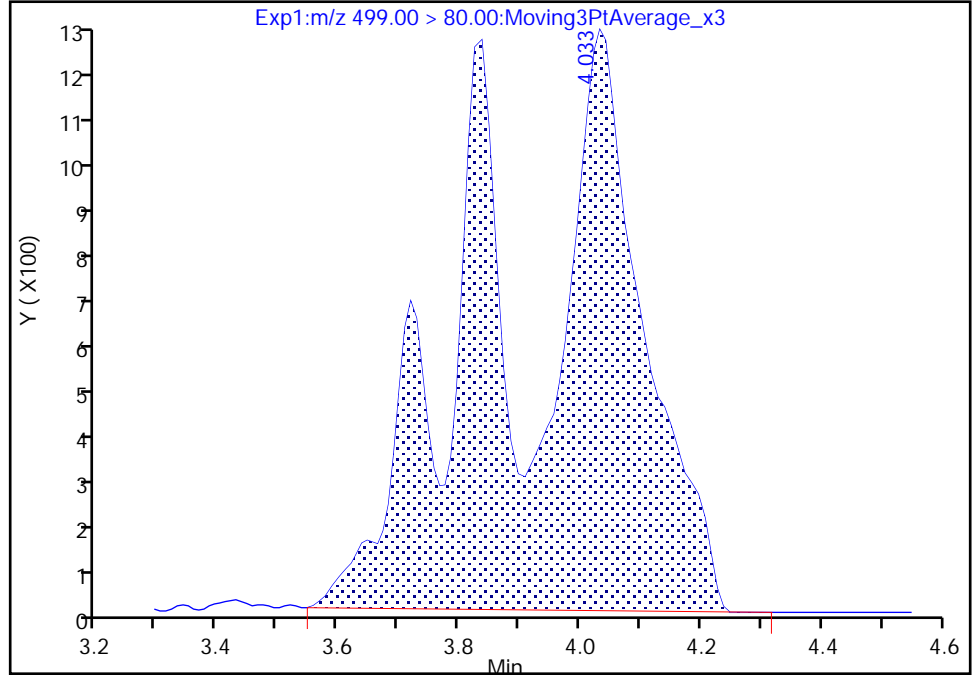
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

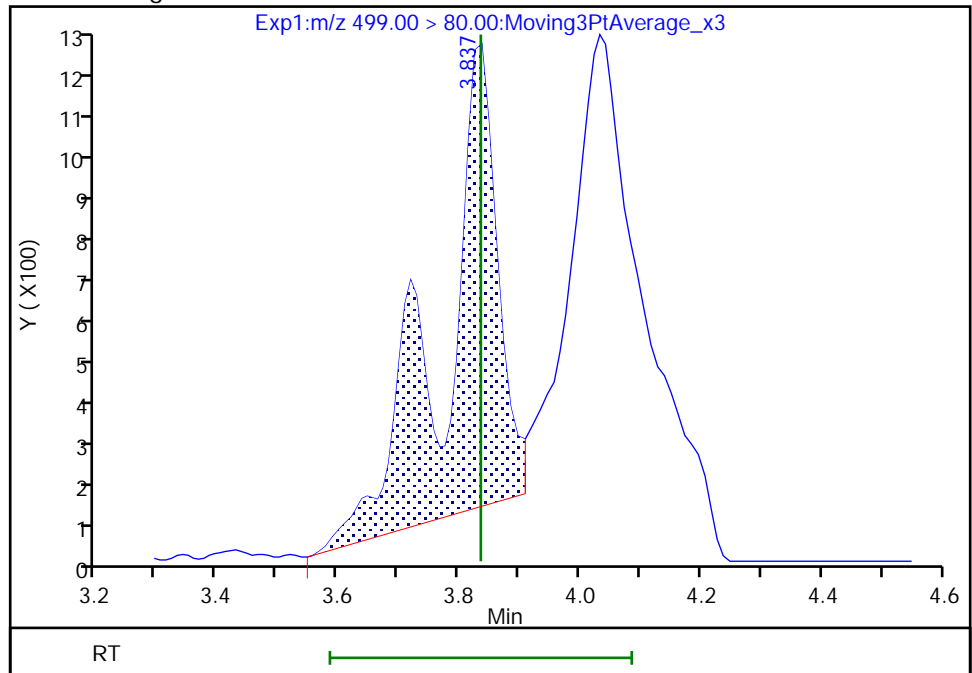
RT: 4.03
Area: 19841
Amount: 0.030148
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 6939
Amount: 0.010544
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

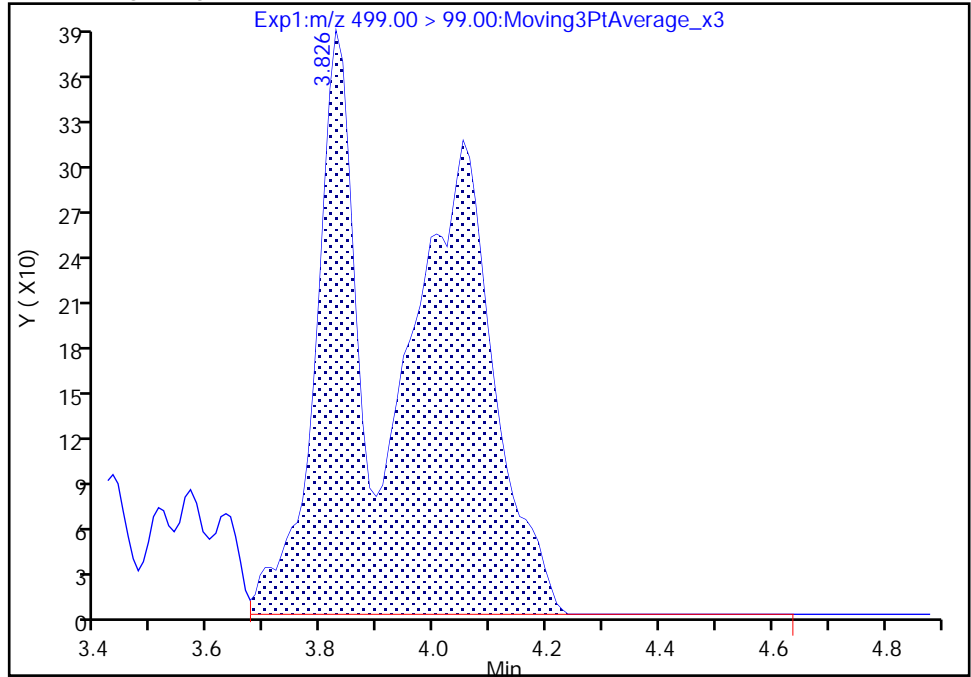
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

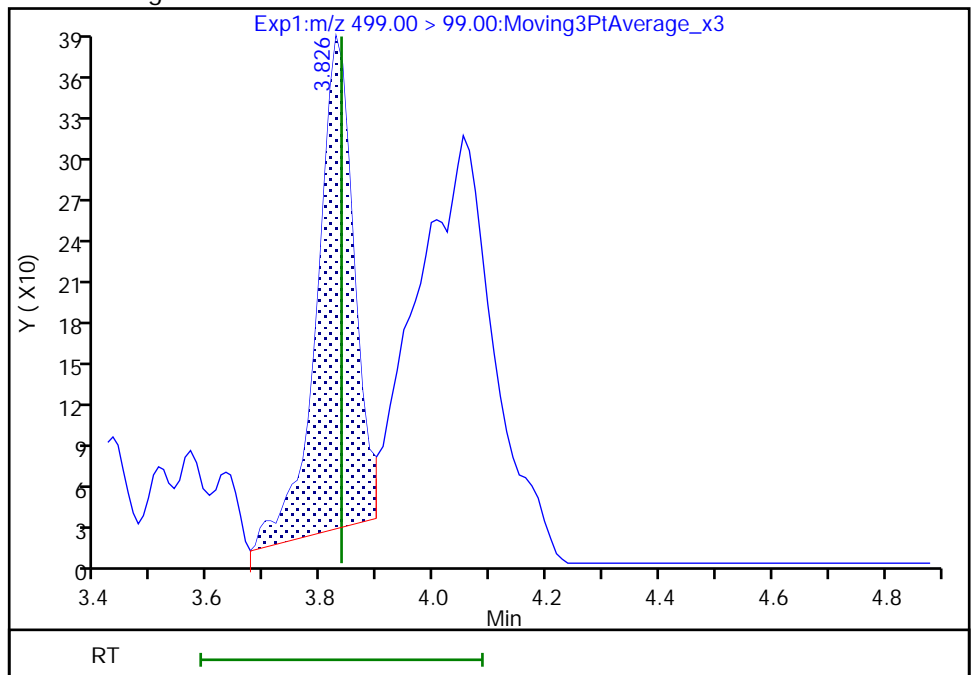
RT: 3.83
Area: 5026
Amount: 0.030148
Amount Units: ng/ml

Processing Integration Results



RT: 3.83
Area: 1648
Amount: 0.010544
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

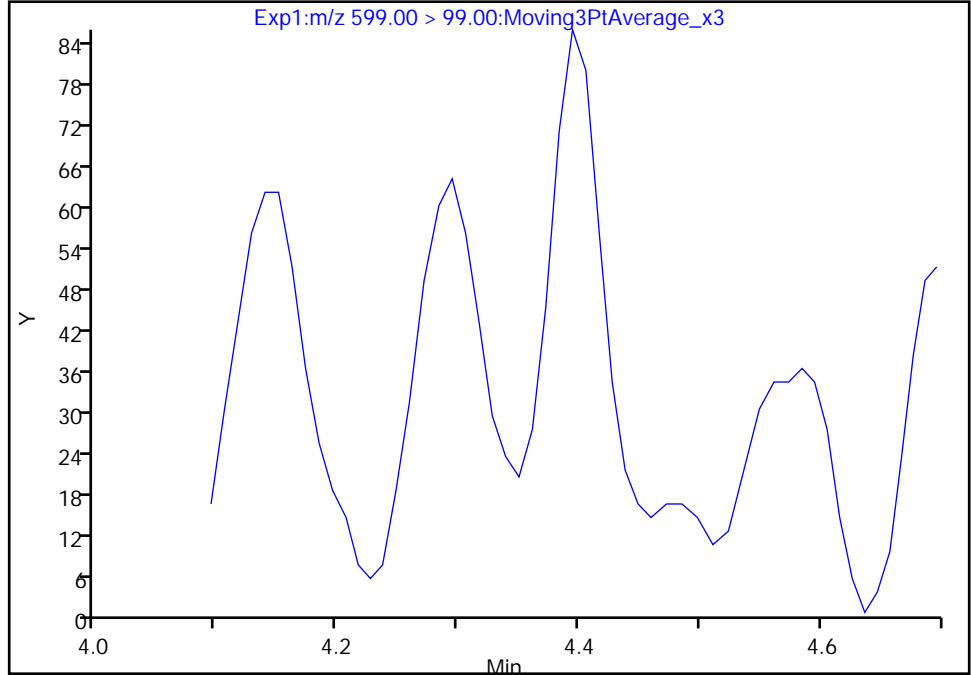
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

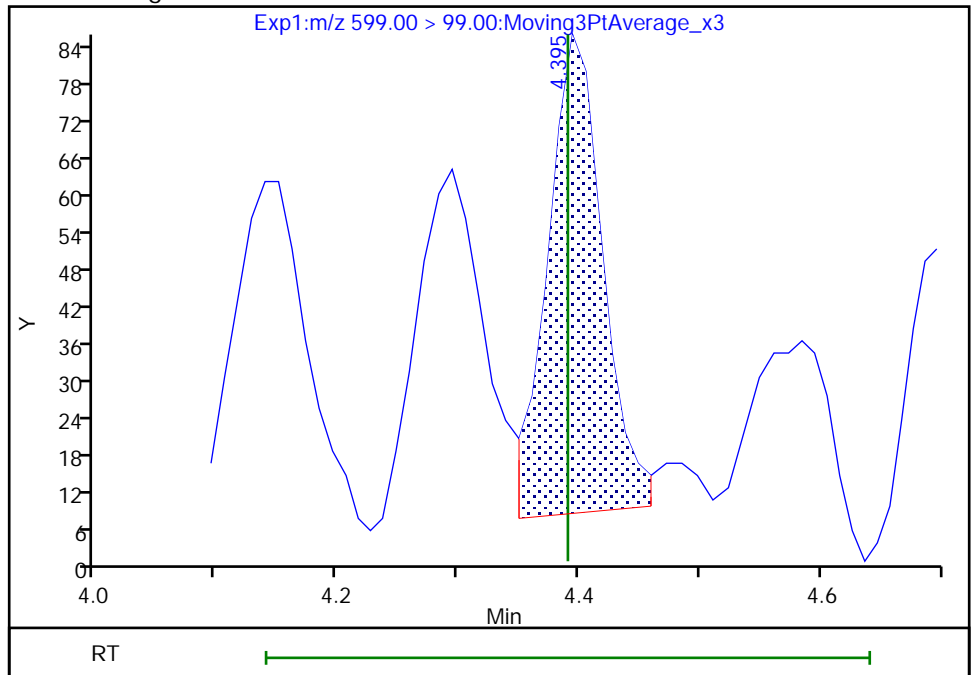
Not Detected
Expected RT: 4.39

Processing Integration Results



RT: 4.39
Area: 246
Amount: 0.001382
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:31:27
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

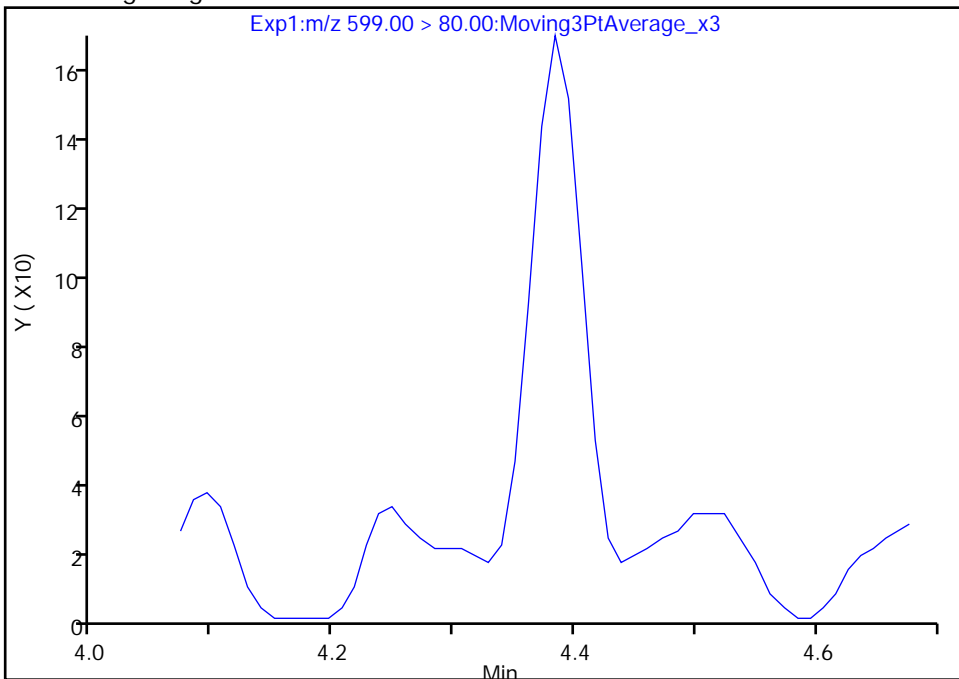
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

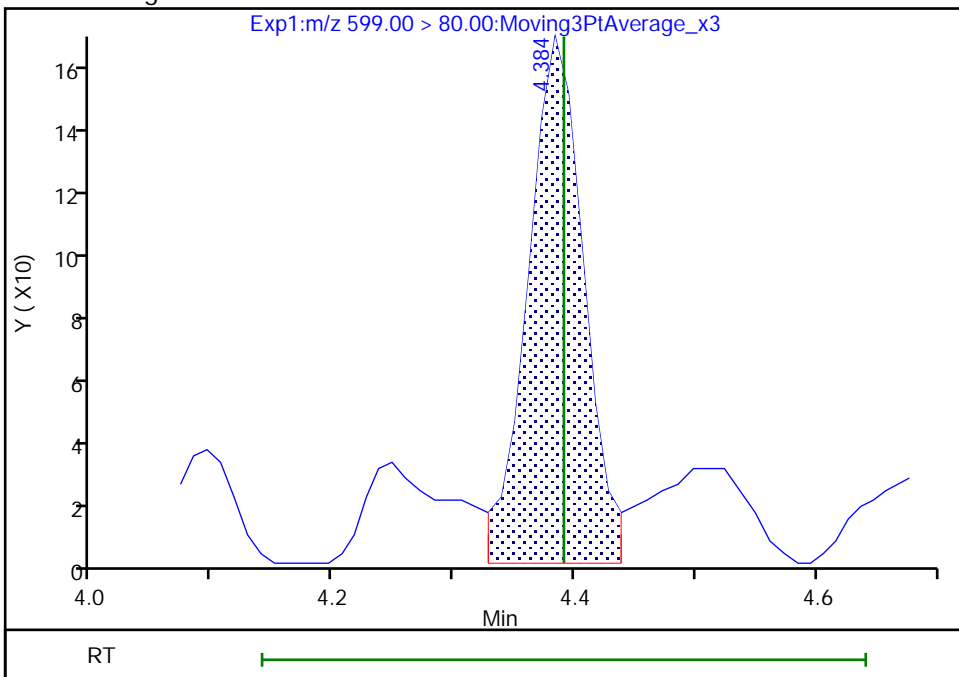
Not Detected
Expected RT: 4.39

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 533
Amount: 0.001382
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:31:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

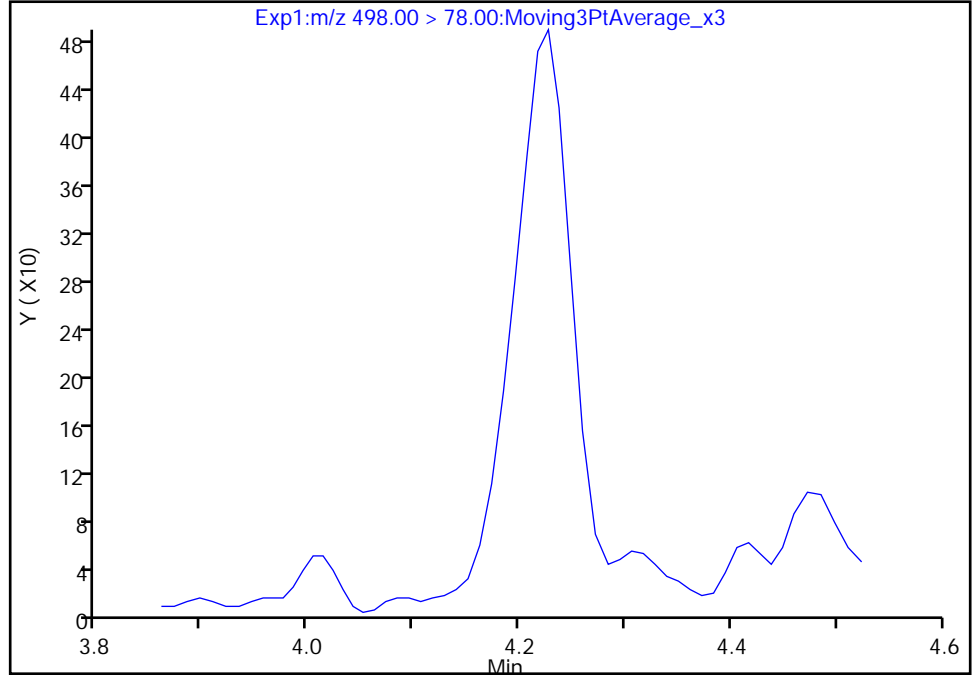
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

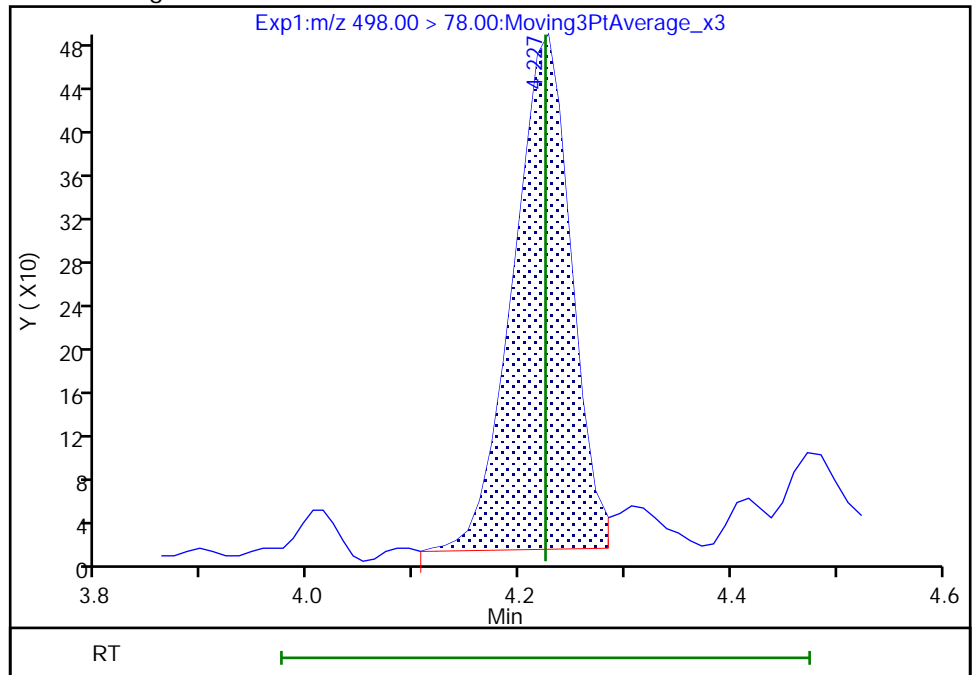
Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.23
Area: 1802
Amount: 0.002806
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:31:07
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

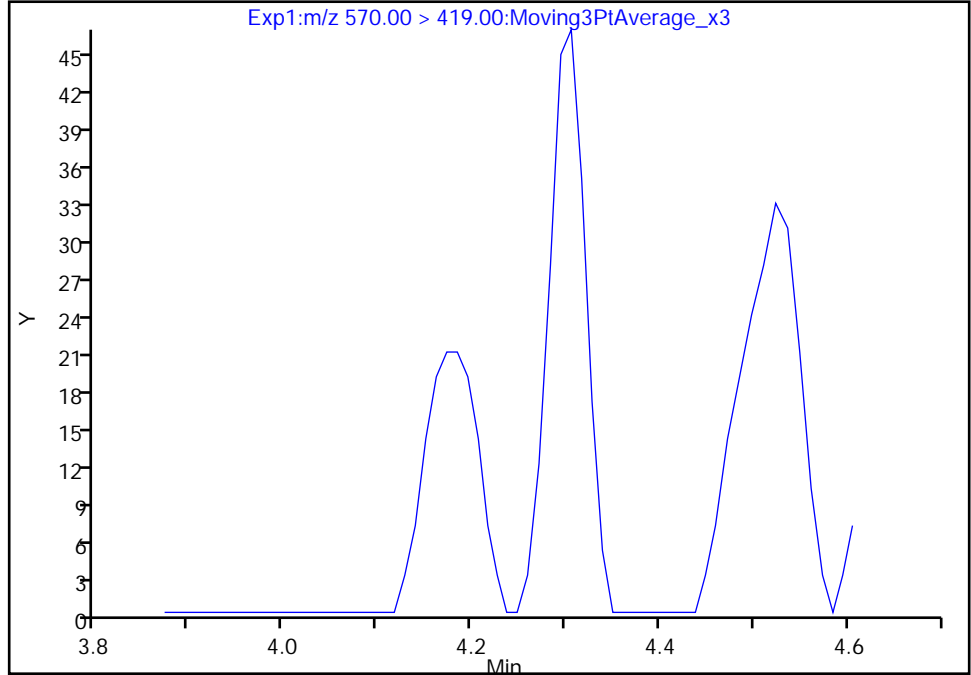
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

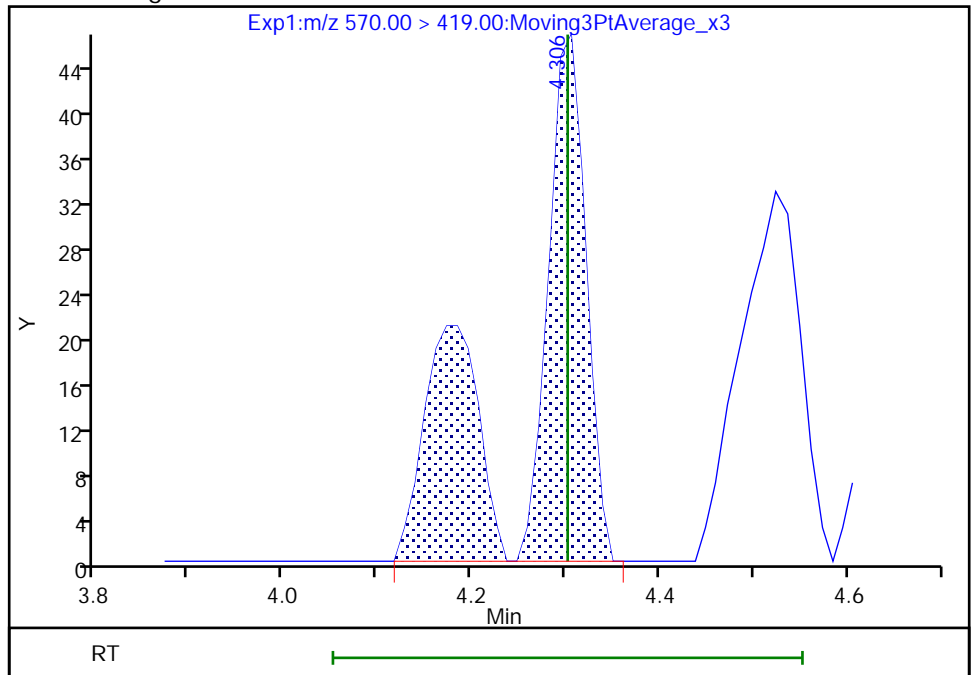
Not Detected
Expected RT: 4.30

Processing Integration Results



Manual Integration Results

RT: 4.31
Area: 214
Amount: 0.004612
Amount Units: ng/ml



Reviewer: chirgwinb, 24-May-2021 11:44:54
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

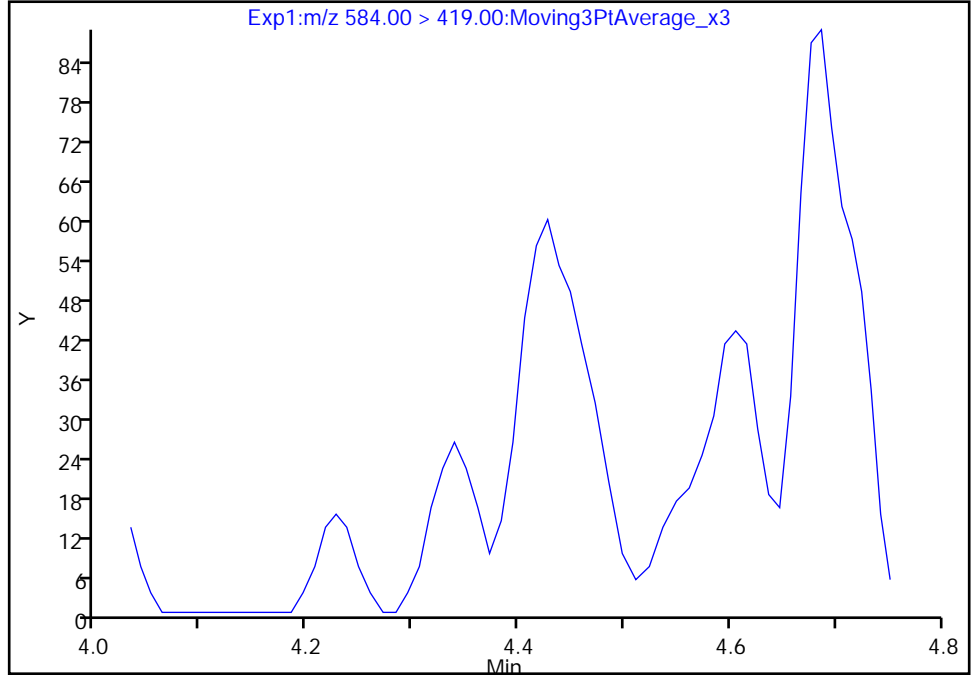
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

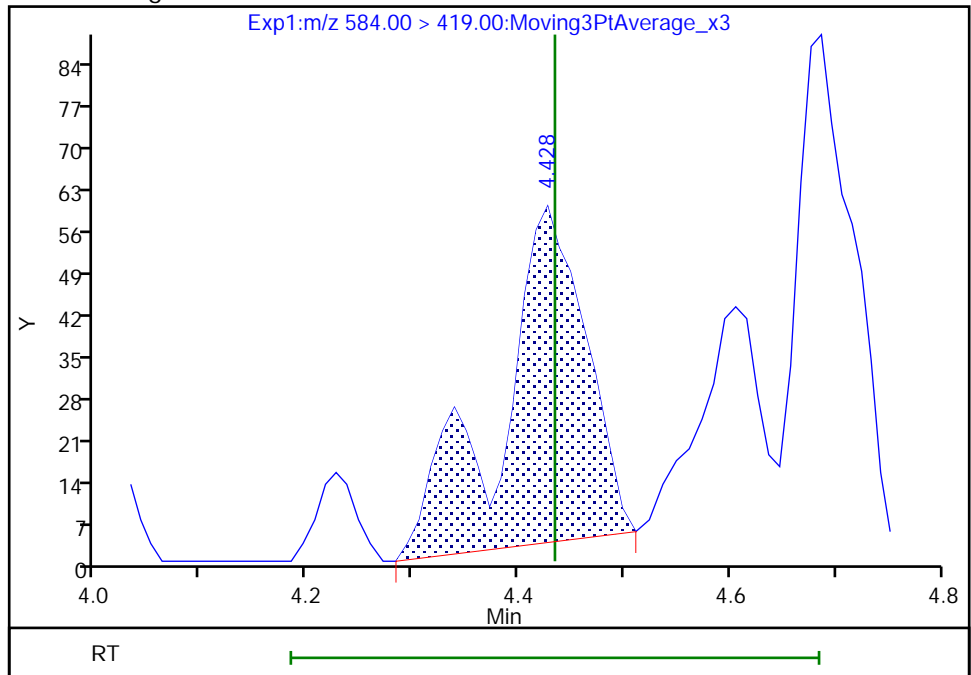
Not Detected
Expected RT: 4.43

Processing Integration Results



Manual Integration Results

RT: 4.43
Area: 321
Amount: -0.003056
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:32:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

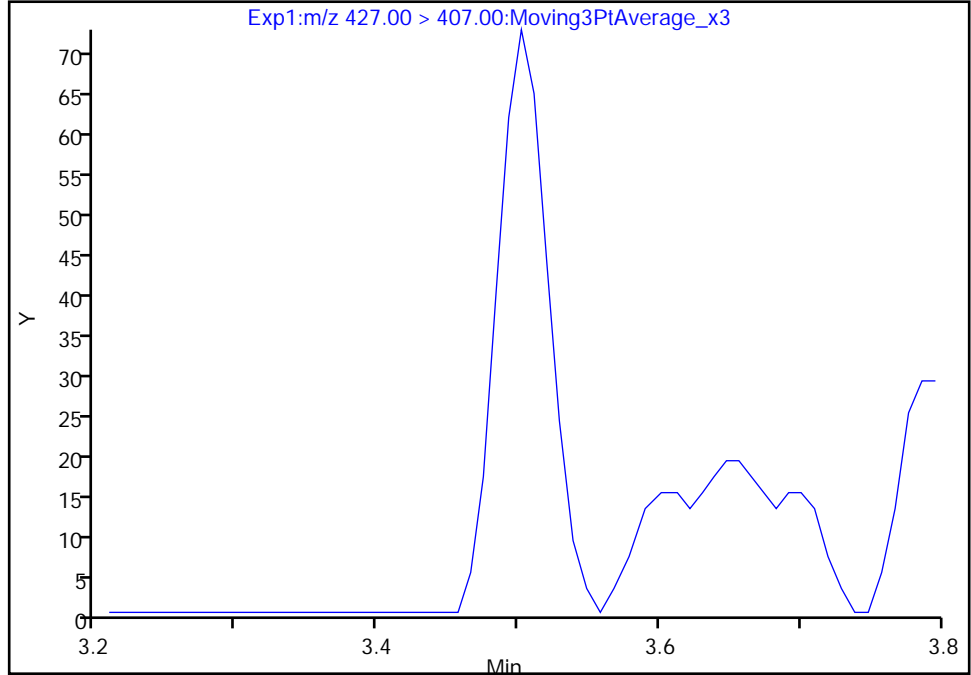
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

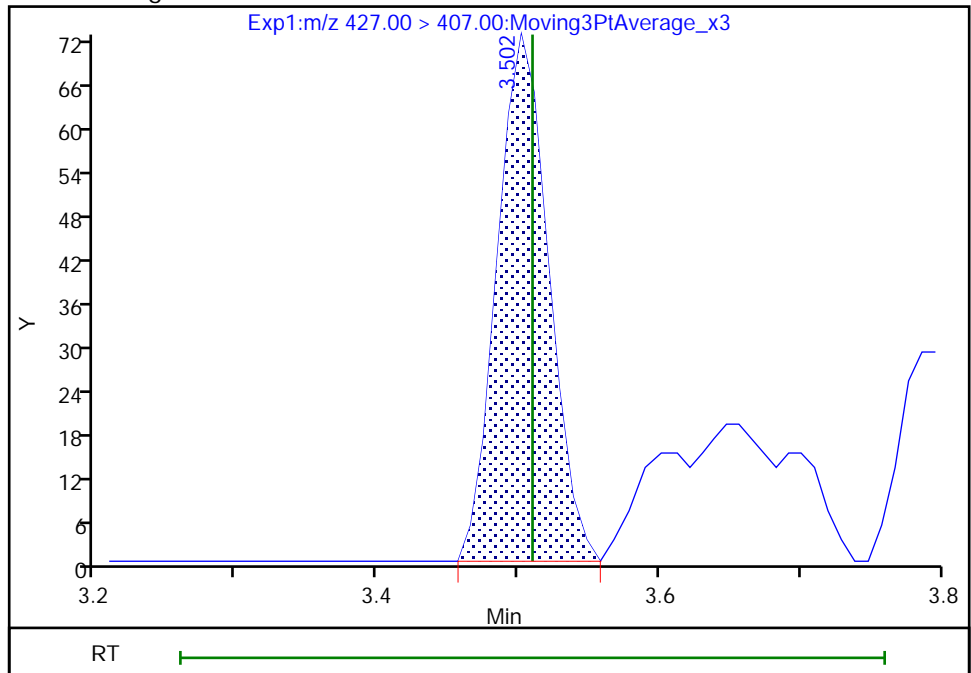
Not Detected
Expected RT: 3.51

Processing Integration Results



Manual Integration Results

RT: 3.50
Area: 185
Amount: 0.001920
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:28:47
Audit Action: Manually Integrated

Euofins TestAmerica, Burlington

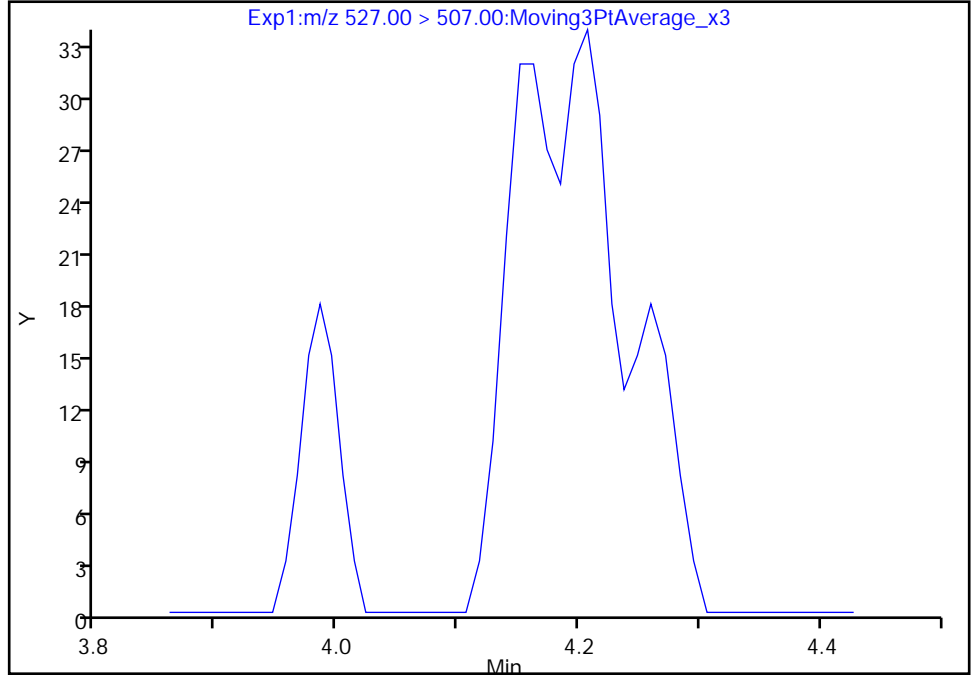
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

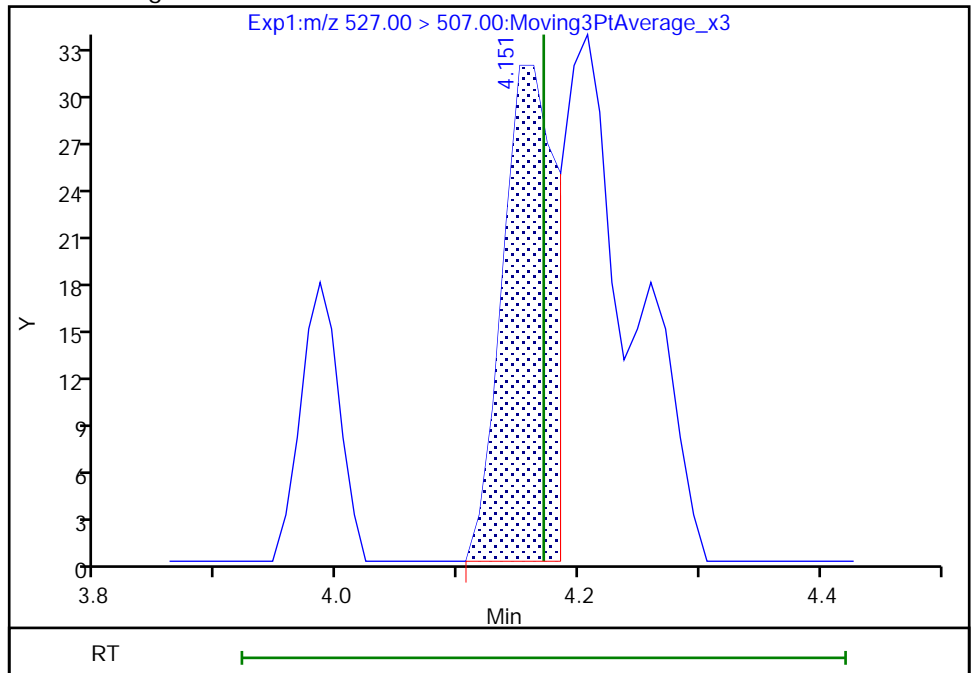
Not Detected
Expected RT: 4.17

Processing Integration Results



Manual Integration Results

RT: 4.15
Area: 92
Amount: 0.001477
Amount Units: ng/ml



Reviewer: nampitakw, 24-May-2021 08:30:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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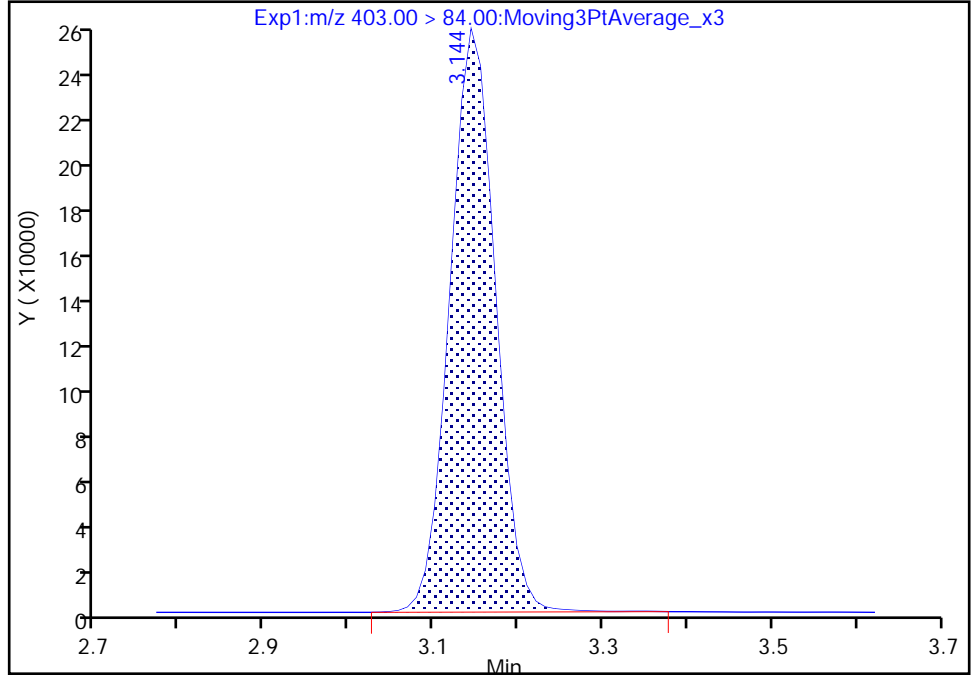
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 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

D 11 18O2 PFHxS, CAS: STL00994
Signal: 1

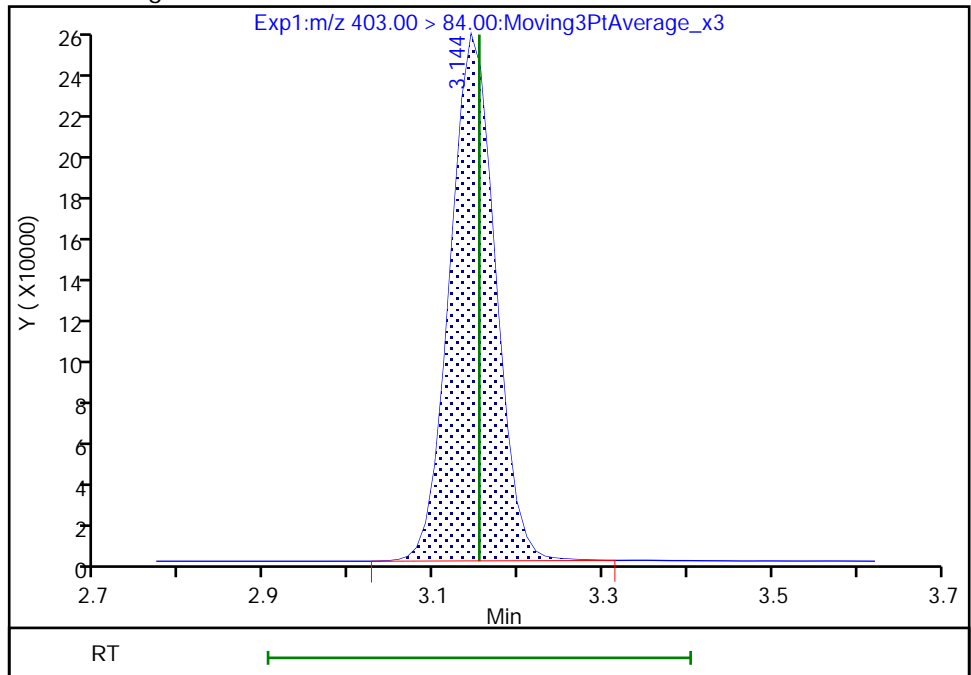
RT: 3.14
Area: 966077
Amount: 0.998181
Amount Units: ng/ml

Processing Integration Results



RT: 3.14
Area: 964291
Amount: 0.996336
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:23:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

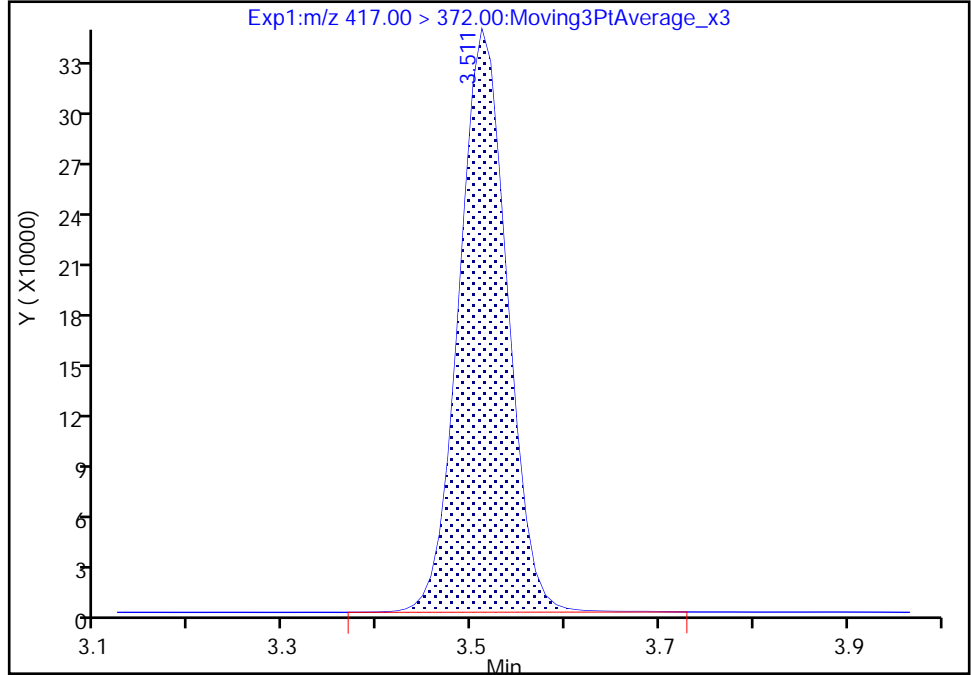
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

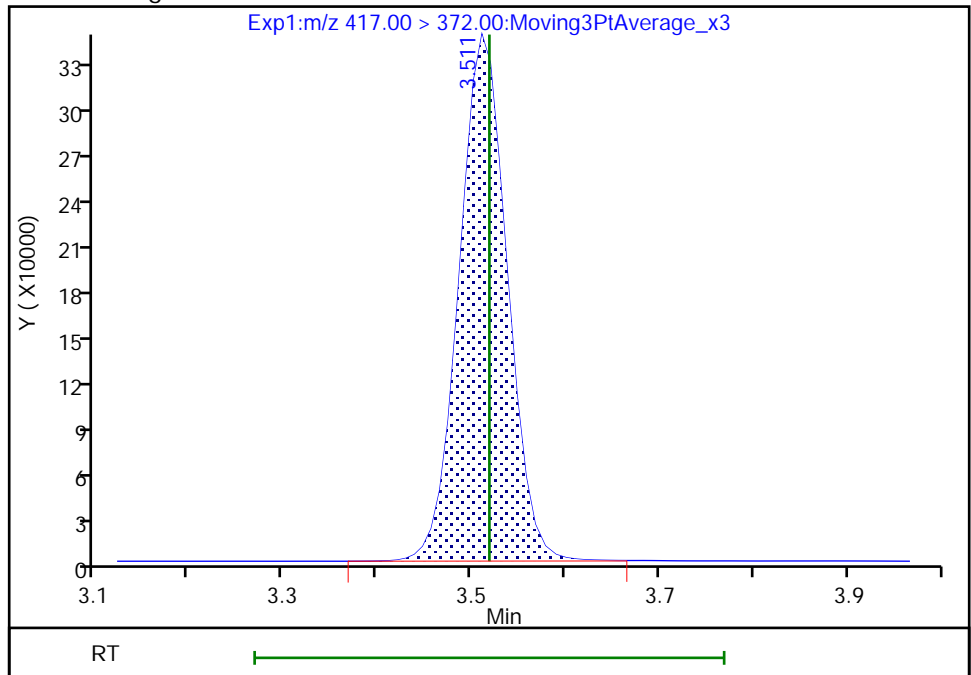
RT: 3.51
Area: 1209113
Amount: 1.103100
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 1208474
Amount: 1.102517
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:23:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

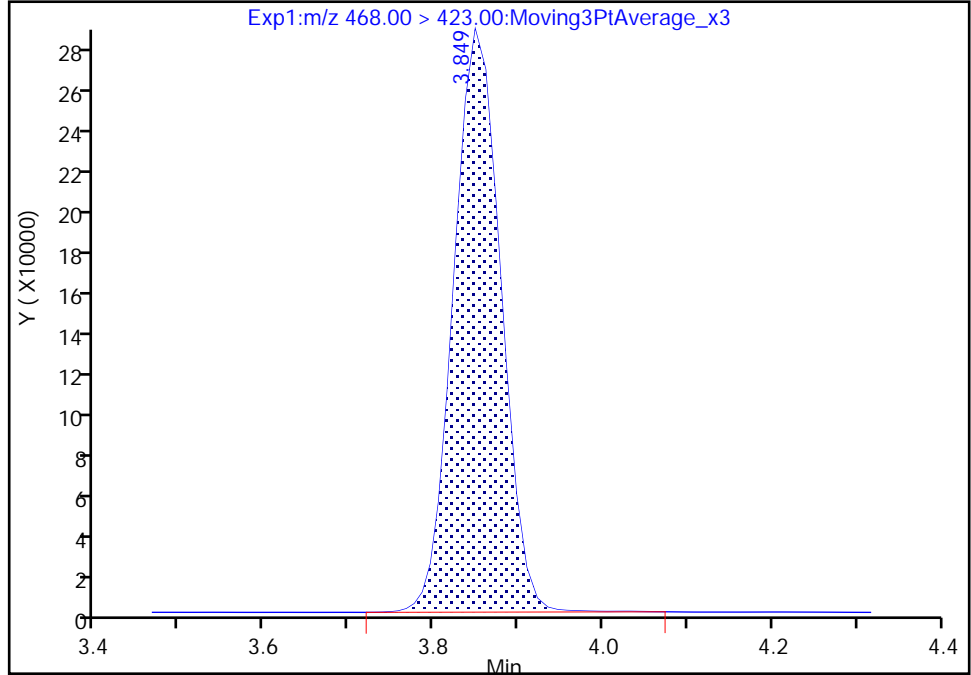
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 19 13C5 PFNA, CAS: STL00995

Signal: 1

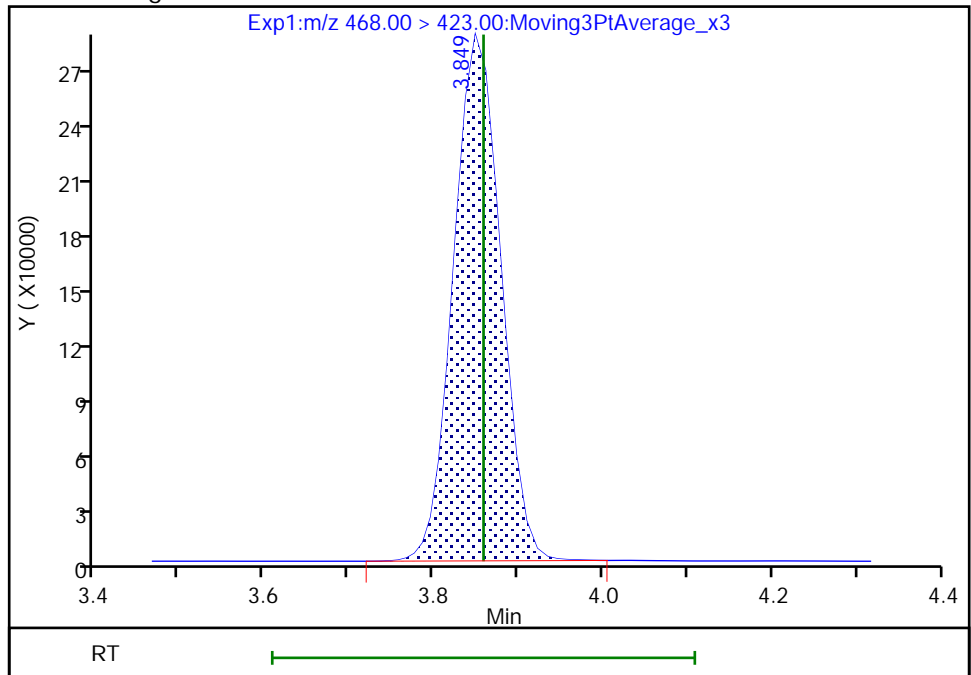
RT: 3.85
Area: 1114763
Amount: 1.103808
Amount Units: ng/ml

Processing Integration Results



RT: 3.85
Area: 1112535
Amount: 1.101602
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:23:35
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

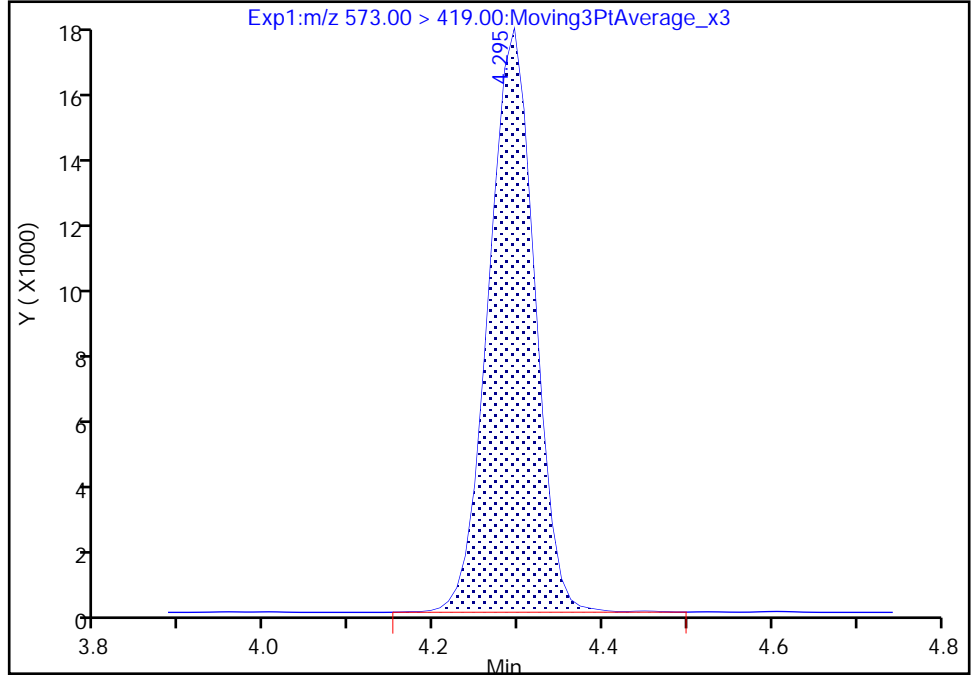
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

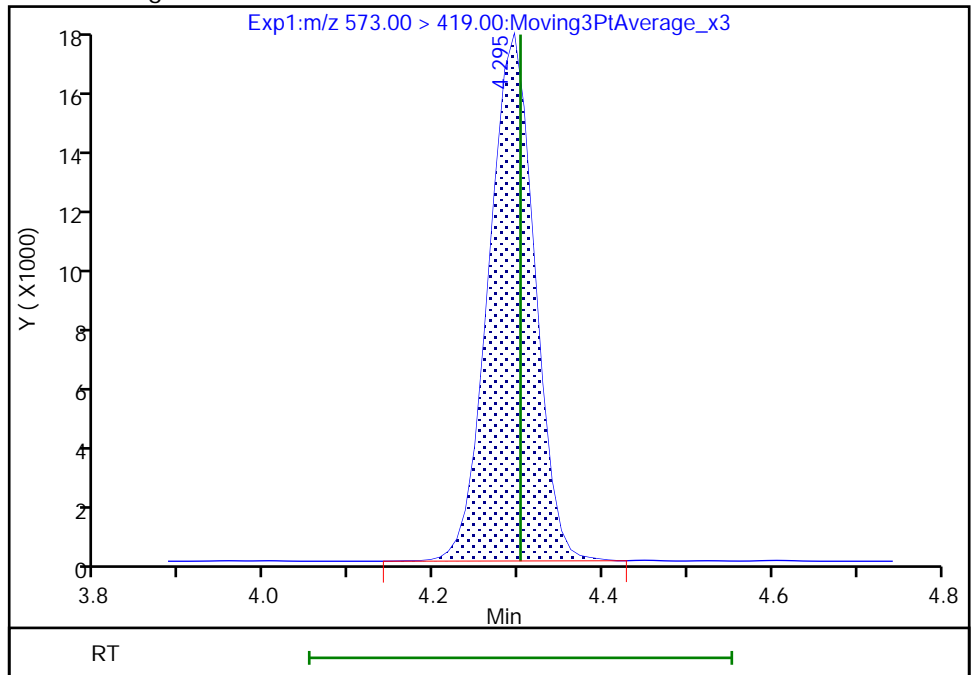
RT: 4.29
Area: 66108
Amount: 1.103428
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 65983
Amount: 1.101341
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:23:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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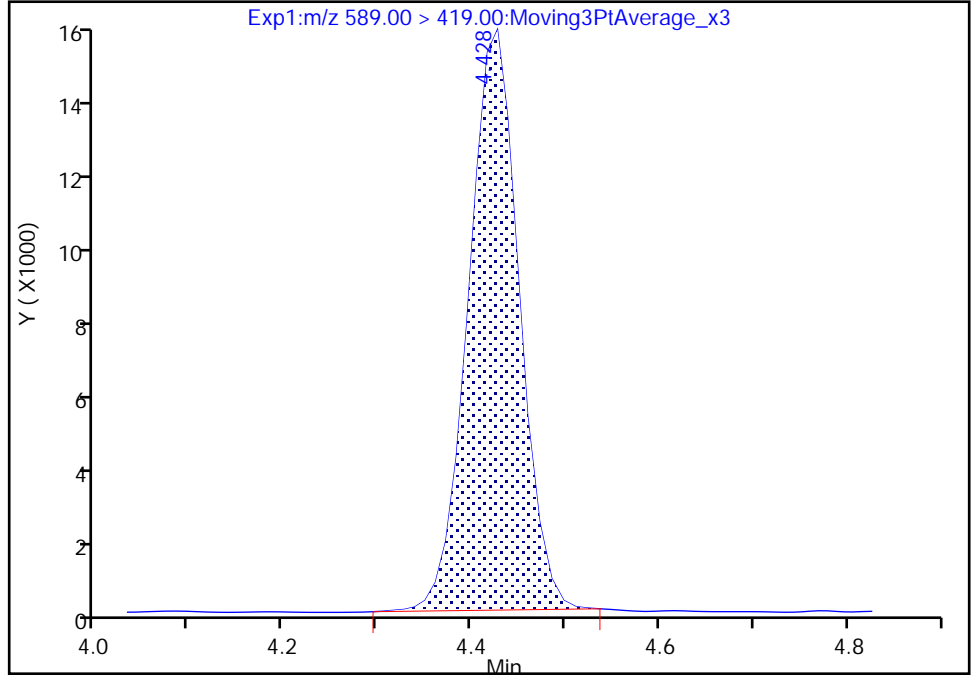
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 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

D 32 d5-NEtFOSAA, CAS: STL02117
Signal: 1

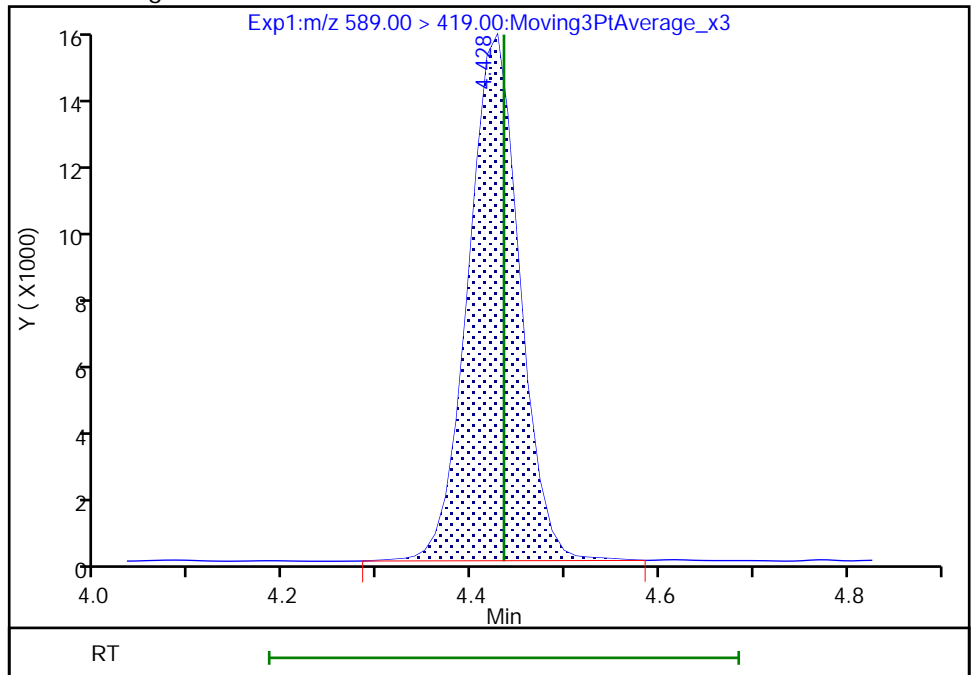
RT: 4.43
Area: 57428
Amount: 0.955258
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 58139
Amount: 0.967085
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:23:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

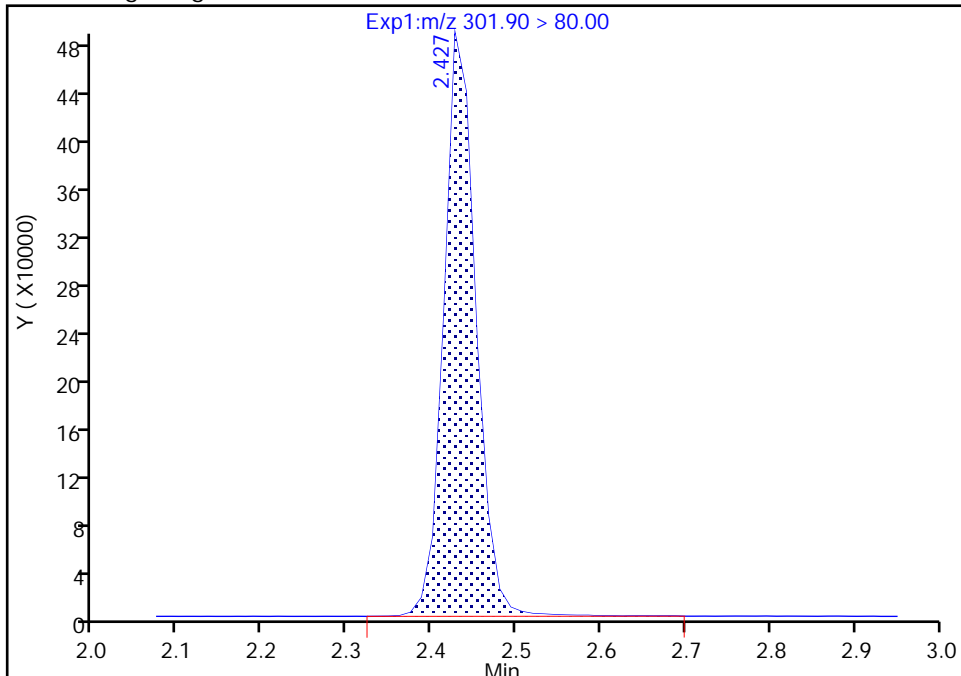
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C02.d
Injection Date: 21-May-2021 22:45:18 Instrument ID: LC812
Lims ID: MB 200-167147/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 29 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

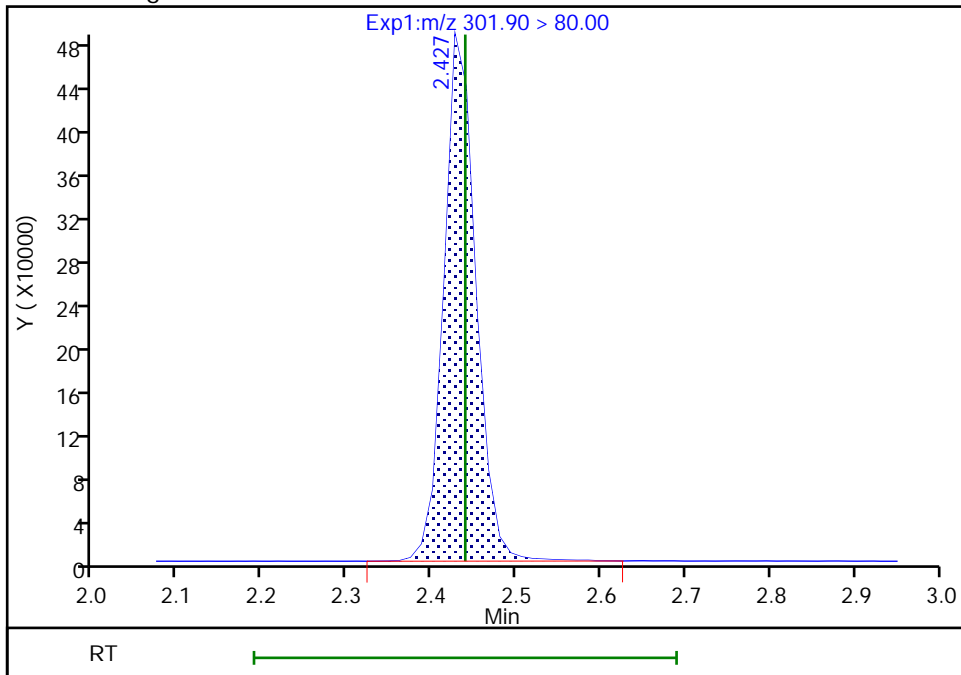
RT: 2.43
Area: 1259831
Amount: 1.010584
Amount Units: ng/ml

Processing Integration Results



RT: 2.43
Area: 1257950
Amount: 1.009075
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:22:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-167122/8
 Matrix: Water Lab File ID: PA210520ICAL08.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/20/2021 17:45
 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.: 167122 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)	0.00951	J	0.050	0.0060
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.050	0.011
375-95-1	Perfluorononanoic acid (PFNA)	0.00778	J	0.050	0.0070
335-76-2	Perfluorodecanoic acid (PFDA)	0.00838	J	0.050	0.0076
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.0156	J	0.050	0.0086
307-55-1	Perfluorododecanoic acid (PFDoA)	0.0103	J	0.050	0.0096
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.050	0.011
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.050	0.016
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.00904	J	0.050	0.0063
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	0.0109	J	0.050	0.0075
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.00828	J	0.050	0.0059
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	0.0126	J	0.050	0.0073
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.0107	J	0.050	0.0077
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		0.050	0.014
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.023
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.019
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.13	0.027
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.050	0.0098

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-167122/8
 Matrix: Water Lab File ID: PA210520ICAL08.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 05/20/2021 17:45
 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.: 167122 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	92		50-150
STL01892	13C4 PFHpA	93		50-150
STL00990	13C4 PFOA	98		50-150
STL00991	13C4 PFOS	104		50-150
STL00995	13C5 PFNA	111		50-150
STL00992	13C4 PFBA	95		25-150
STL00993	13C2 PFHxA	94		50-150
STL00996	13C2 PFDA	131		50-150
STL00997	13C2 PFUnA	123		50-150
STL00998	13C2 PFDoA	114		50-150
STL01056	13C8 FOSA	102		25-150
STL01893	13C5 PFPeA	96		25-150
STL02116	13C2 PFTeDA	109		50-150
STL02118	d3-NMeFOSAA	133		50-150
STL02117	d5-NEtFOSAA	138		50-150
STL02279	M2-6:2 FTS	96		25-150
STL02280	M2-8:2 FTS	156	*5+	25-150
STL02337	13C3 PFBS	96		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 20-May-2021 17:45:20 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: 200-0046072-008 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 20-May-2021 18:37:56 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1654

First Level Reviewer: chirgwinb Date: 20-May-2021 18:22:11
 Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA	217.00 > 172.00	2.098	2.100	-0.002	0.579	1668885	1.19	95.5	10217	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.107	2.100	0.007	1.004	13700	0.0110		2.4		M
D 3 13C5 PFPeA	267.90 > 223.00	2.450	2.426	0.024	0.677	1218464	1.20	95.9	3543	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.450	2.426	0.024	1.000	10740	0.0109		1.2		M
D 47 13C3 PFBS	301.90 > 80.00	2.463	2.452	0.011	0.680	1419300	1.12	96.1	483049	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.477	2.452	0.025	1.005	11375	0.009043	Target=2.19	19.8		M
298.90 > 99.00	2.463	2.452	0.011	1.000	4778		2.38(1.09-3.28)	3.5		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.805	2.758	0.047	0.775	118966	1.21	103	163	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.805	2.758	0.047	1.000	1393	0.007843		21.6		M
D 7 13C2 PFHxA	315.00 > 270.00	2.841	2.794	0.047	0.785	1302040	1.18	94.4	4529	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.853	2.794	0.059	1.004	9087	0.008619	Target=12.12	3.2		
313.00 > 119.00	2.853	2.794	0.059	1.004	1342		6.77(6.06-18.18)	3.6		M
70 Perfluoropentanesulfonic acid										R
349.00 > 80.00	2.853	2.794	0.059	0.880	9921	0.009004	Target=3.58	28.1		R
349.00 > 99.00	2.853	2.794	0.059	0.880	1736		5.71(1.79-5.37)	3.9		
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.961	2.902	0.059	1.000	2029	0.0131		0.9		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	2.961	2.902	0.059	0.818	117256	0.9606		76.9	1054	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.241	3.153	0.088	1.000	10933	0.0109	Target=4.23	47.9	M	
399.00 > 99.00	3.241	3.153	0.088	1.000	4449		2.46(2.12-6.35)	6.1	M	
D 11 18O2 PFHxS										
403.00 > 84.00	3.241	3.153	0.088	0.895	1070175	1.09		91.8	3574	
D 9 13C4 PFHpA										
367.00 > 322.00	3.241	3.164	0.077	0.895	1286157	1.17		93.3	5255	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.249	3.164	0.085	1.003	9874	0.009514	Target=3.49	6.1	M	
363.00 > 169.00	3.249	3.164	0.085	1.003	3111		3.17(1.75-5.24)	10.0	M	
77 DONA										
377.00 > 251.00	3.284	3.196	0.088	0.851	16309	0.007040	Target=2.43	42.0		
377.00 > 85.00	3.284	3.196	0.088	0.851	6516		2.50(1.21-3.64)	14.7		
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.611	3.510	0.101	0.936	7589	0.008284	Target=6.21	61.2		
449.00 > 99.00	3.611	3.510	0.101	0.936	1097		6.92(3.10-9.31)	4.5	M	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.611	3.510	0.101	0.998	149566	1.15		96.4	479	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.611	3.510	0.101	1.000	1229	0.0109		17.0	M	
D 14 13C4 PFOA										
417.00 > 372.00	3.620	3.519	0.101	1.000	1370020	1.23		98.1	3023	
* 62 13C2 PFOA										M
415.00 > 370.00	3.620	3.519	0.101		1394610	1.25		133	M	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.620	3.519	0.101	1.000	11206	0.0100	Target=2.53	5.5		
413.00 > 169.00	3.620	3.519	0.101	1.000	4649		2.41(1.27-3.80)	11.4	M	
D 18 13C4 PFOS										
503.00 > 80.00	3.859	3.836	0.023	1.066	881278	1.24		104	3135	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.859	3.836	0.023	1.000	9967	0.0126	Target=6.09	8.7	M	
499.00 > 99.00	3.859	3.836	0.023	1.000	2505		3.98(3.04-9.13)	4.2	M	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.871	3.858	0.013	1.000	8537	0.007781	Target=6.34	4.2	M	
463.00 > 169.00	3.871	3.858	0.013	1.000	1574		5.42(3.17-9.51)	16.3		
D 19 13C5 PFNA										
468.00 > 423.00	3.871	3.858	0.013	1.069	1423659	1.38		111	4253	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.955	3.992	-0.037	1.025	6691	0.008759		54.8		
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.030	4.126	-0.096	1.044	4965	0.008396	Target=2.95	54.6		
549.00 > 99.00	4.030	4.126	-0.096	1.044	1482		3.35(1.47-4.42)	3.9		
D 23 13C2 PFDA										
515.00 > 470.00	4.049	4.148	-0.099	1.119	1478312	1.64		131	4304	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.060	4.148	-0.088	1.003	10372	0.008381	Target=7.79		4.5	
513.00 > 169.00	4.060	4.148	-0.088	1.003	1176		8.82(3.90-11.69)		7.4	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.060	4.160	-0.100	1.122	249621	1.86		156	128	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.071	4.160	-0.089	1.003	805	0.007697			18.1	M
D 21 13C8 FOSA										
506.00 > 78.00	4.071	4.214	-0.143	1.124	1630012	1.28		102	3601	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.071	4.214	-0.143	1.000	12764	0.0100			38.3	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.149	4.291	-0.142	1.146	101815	1.67		133	1638	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.149	4.302	-0.153	1.000	1613	0.0225			12.3	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.193	4.380	-0.187	1.087	4961	0.0107	Target=2.87		60.6	
599.00 > 99.00	4.204	4.380	-0.176	1.090	1782		2.78(1.44-4.31)		14.8	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.225	4.413	-0.188	1.002	13777	0.0156	Target=7.94		15.3	RM
563.00 > 169.00	4.225	4.413	-0.188	1.002	957		14.40(3.97-11.91)		14.9	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.215	4.413	-0.198	1.164	1114969	1.54		123	4402	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.235	4.424	-0.189	1.170	105982	1.73		138	1072	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.235	4.424	-0.189	1.000	1436	0.008492			20.6	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.268	4.505	-0.237	1.106	6932	0.0102			127	
D 36 13C2 PFDaA										
615.00 > 570.00	4.369	4.642	-0.273	0.000	1082650	1.43		114	3497	a
37 Perfluorododecanoic acid										
613.00 > 569.00	4.380	4.653	-0.273	1.003	8957	0.0103	Target=5.94		5.6	a
613.00 > 169.00	4.369	4.653	-0.284	1.000	1432		6.25(2.97-8.92)		27.8	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.391	4.672	-0.281	1.082	435	0.008107			18.0	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.492	4.822	-0.330	1.164	1687	0.0106	Target=0.44		46.3	M
699.00 > 99.00	4.492	4.822	-0.330	1.164	3218		0.52(0.22-0.66)		29.9	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.518	4.866	-0.348	1.034	7105	0.0101	Target=3.97		15.5	Ma
663.00 > 169.00	4.531	4.866	-0.335	1.037	1406		5.05(1.99-5.96)		33.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.673	5.053	-0.380	0.000	753134	1.36		109	2291	a
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.663	5.053	-0.390	0.998	1082	0.008782	Target=1.01		40.5	a
713.00 > 219.00	4.663	5.053	-0.390	0.998	1349		0.80(0.51-1.52)		39.0	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										a
813.00 > 769.00	4.986	5.406	-0.420	1.000	11298	0.0100	Target=3.56		36.6	a
813.00 > 169.00	4.986	5.406	-0.420	1.000	3389		3.33(1.78-5.34)		135	
D 44 13C2 PFHxDA										a
815.00 > 770.00	4.986	5.406	-0.420	0.000	693626	1.28		102	2350	a
46 Perfluorooctadecanoic acid										a
913.00 > 869.00	5.315	5.747	-0.432	1.066	5022	0.0106	Target=3.39		25.9	a
913.00 > 169.00	5.327	5.747	-0.420	1.068	1303		3.85(1.70-5.09)		28.7	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFAS32NCBLK20_00011

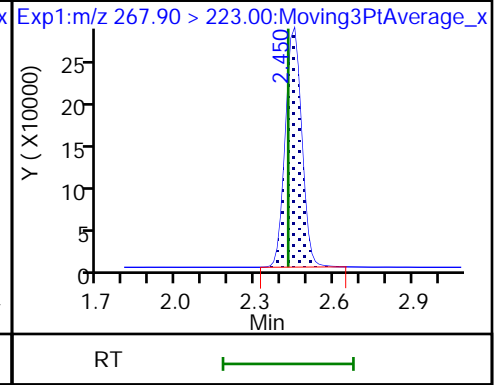
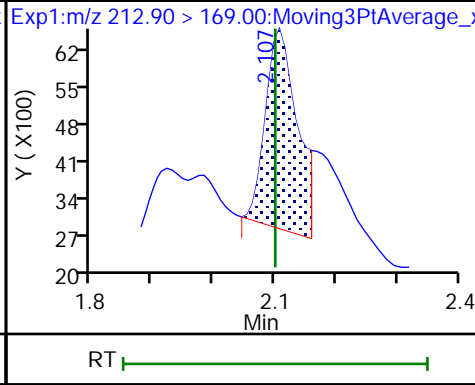
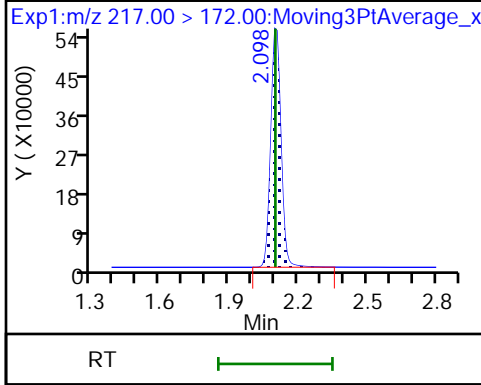
Amount Added: 100.00

Units: uL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

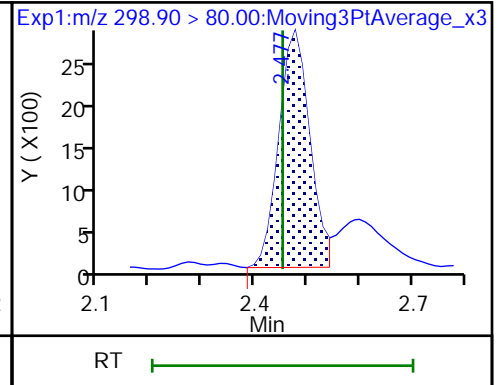
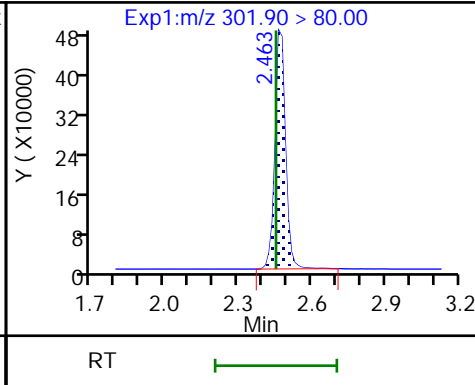
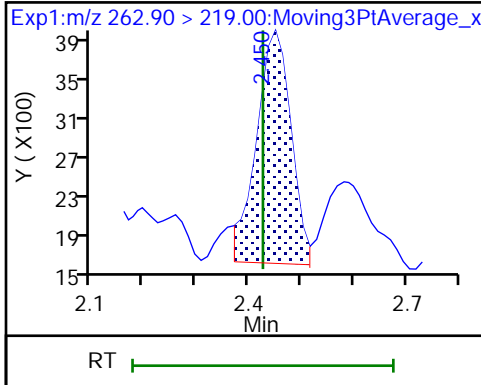
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

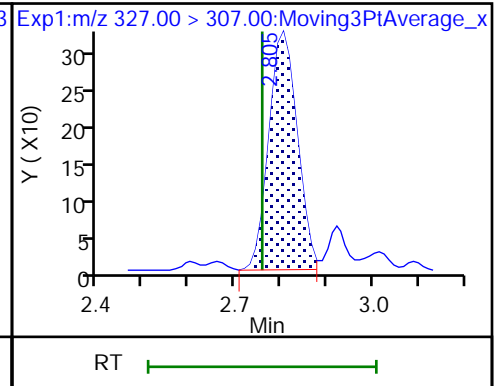
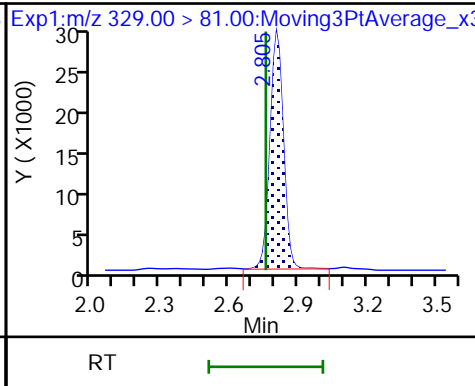
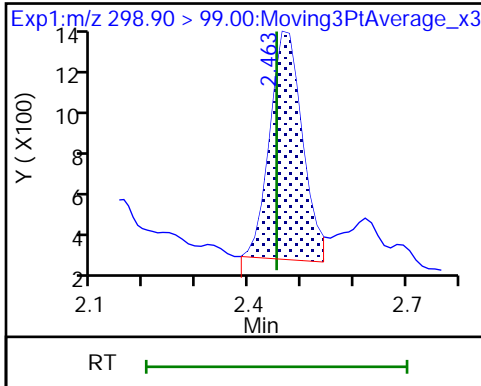
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 60 M2-4:2 FTS

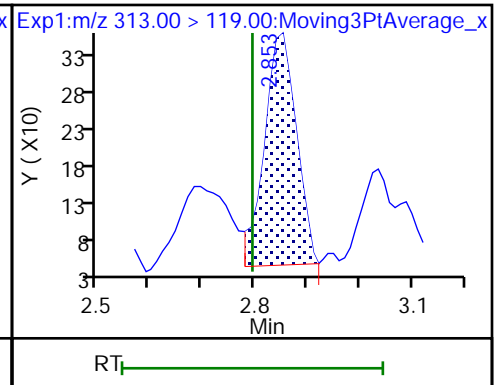
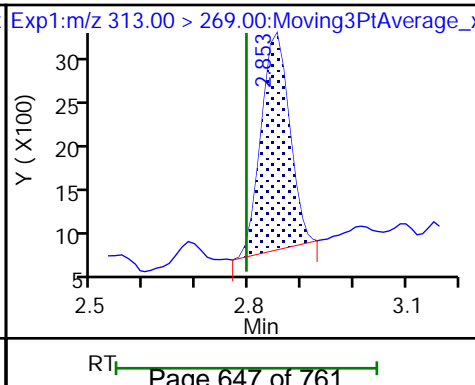
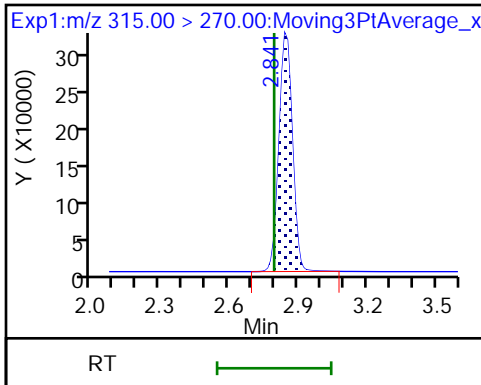
61 1H,1H,2H,2H-perfluorohexanesulfo (M)

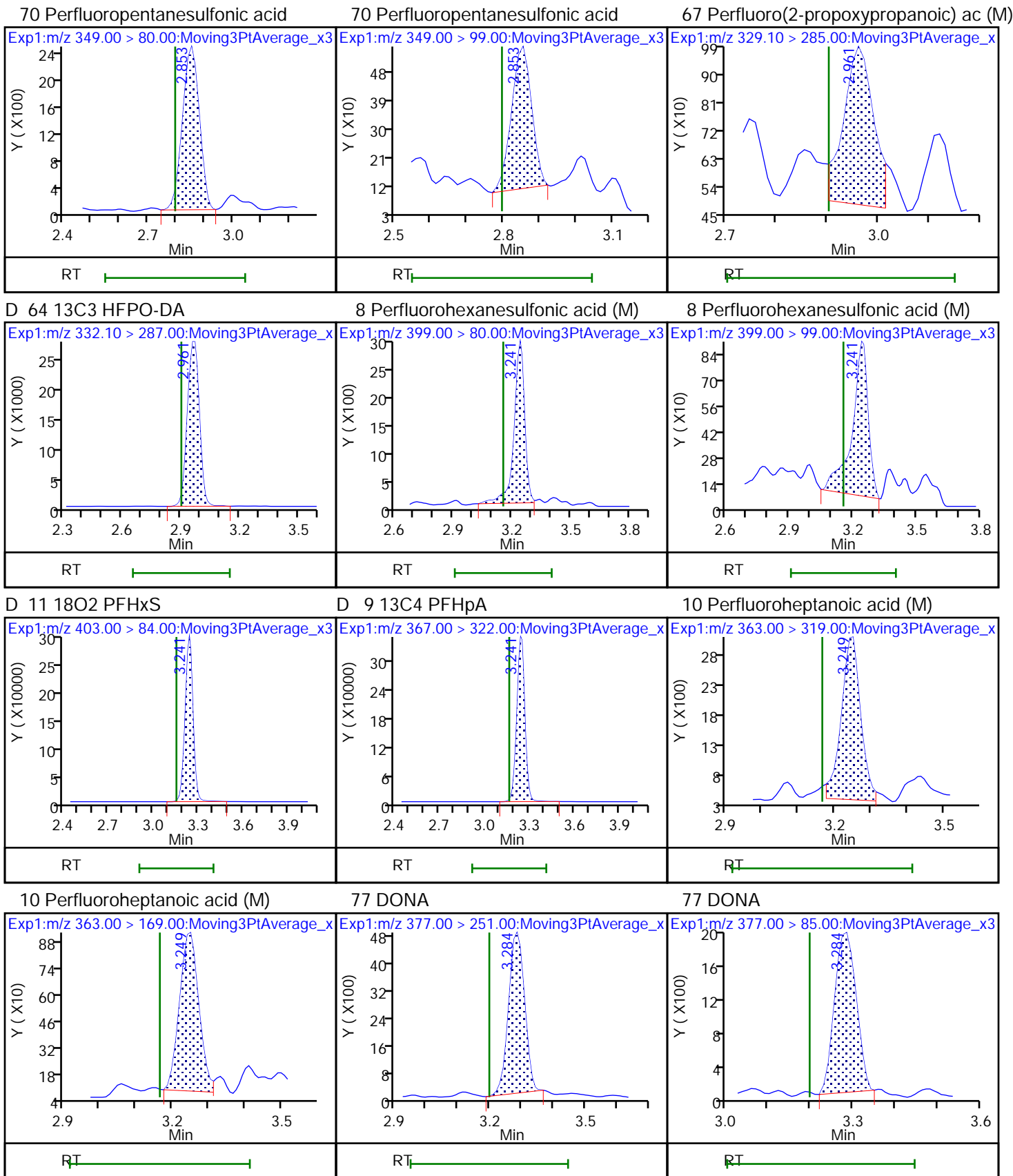


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid (M)

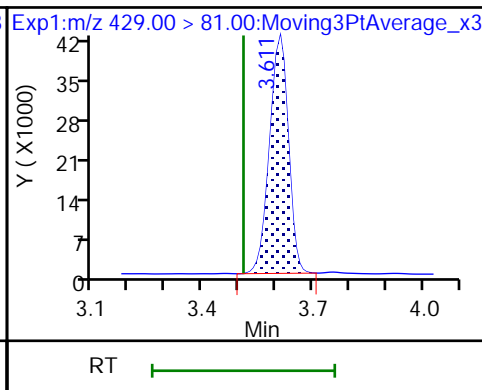
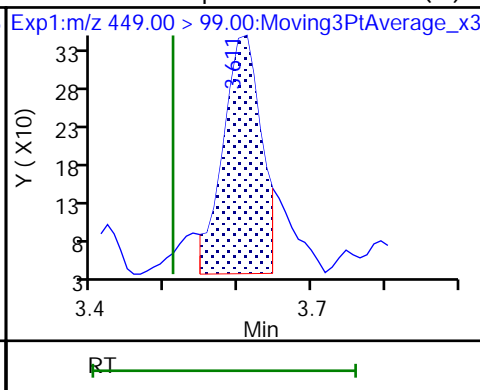
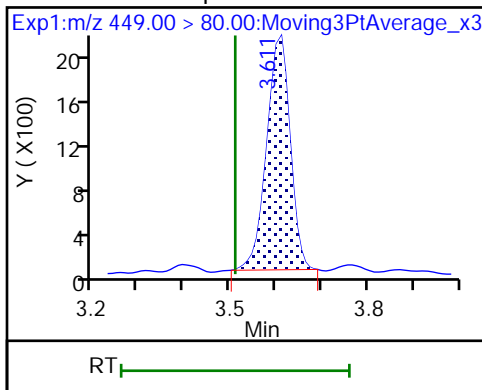




16 Perfluoroheptanesulfonic acid

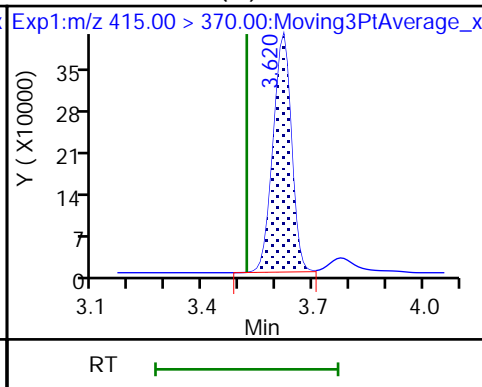
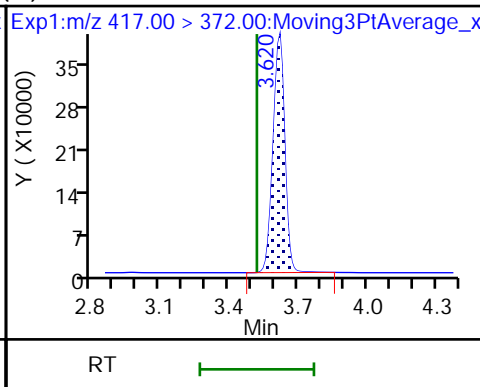
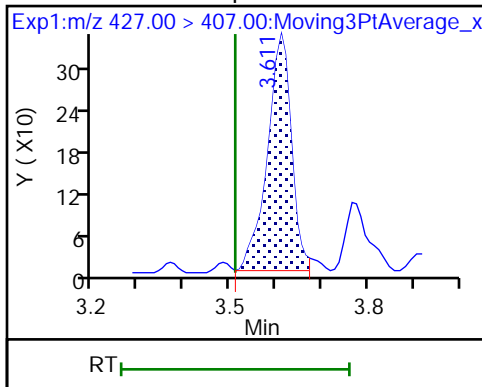
16 Perfluoroheptanesulfonic acid (M)

D 12 M2-6:2 FTS



13 1H,1H,2H,2H-perfluorooctanesulfo (M) 14 13C4 PFOA

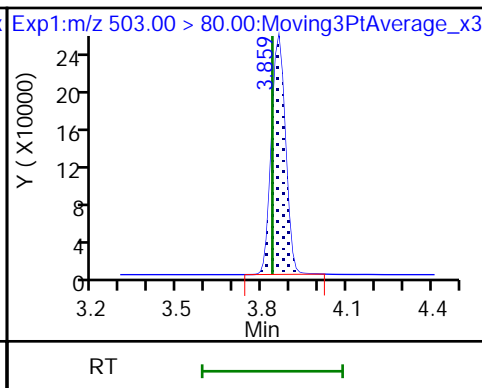
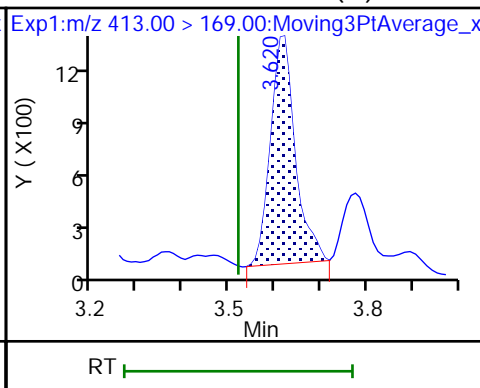
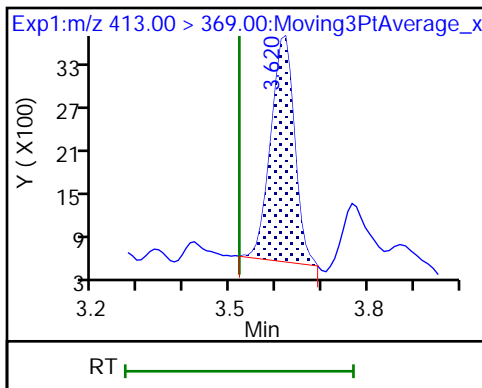
* 62 13C2 PFOA (M)



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid (M)

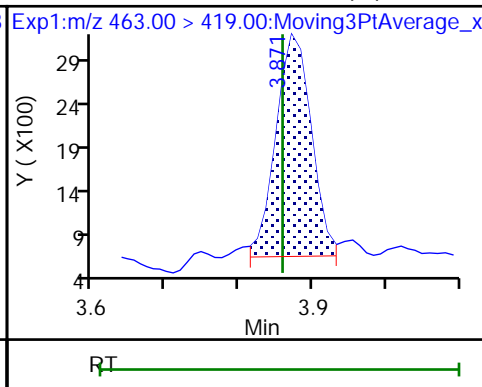
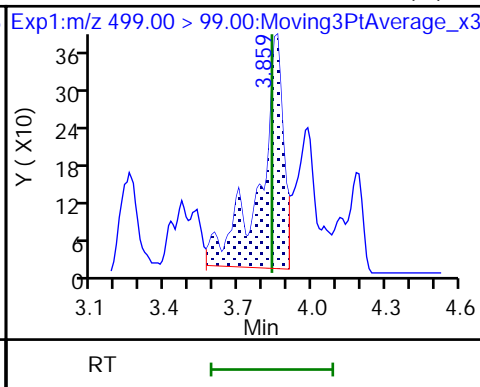
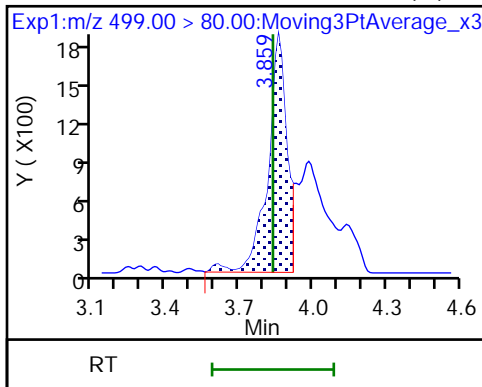
D 18 13C4 PFOS

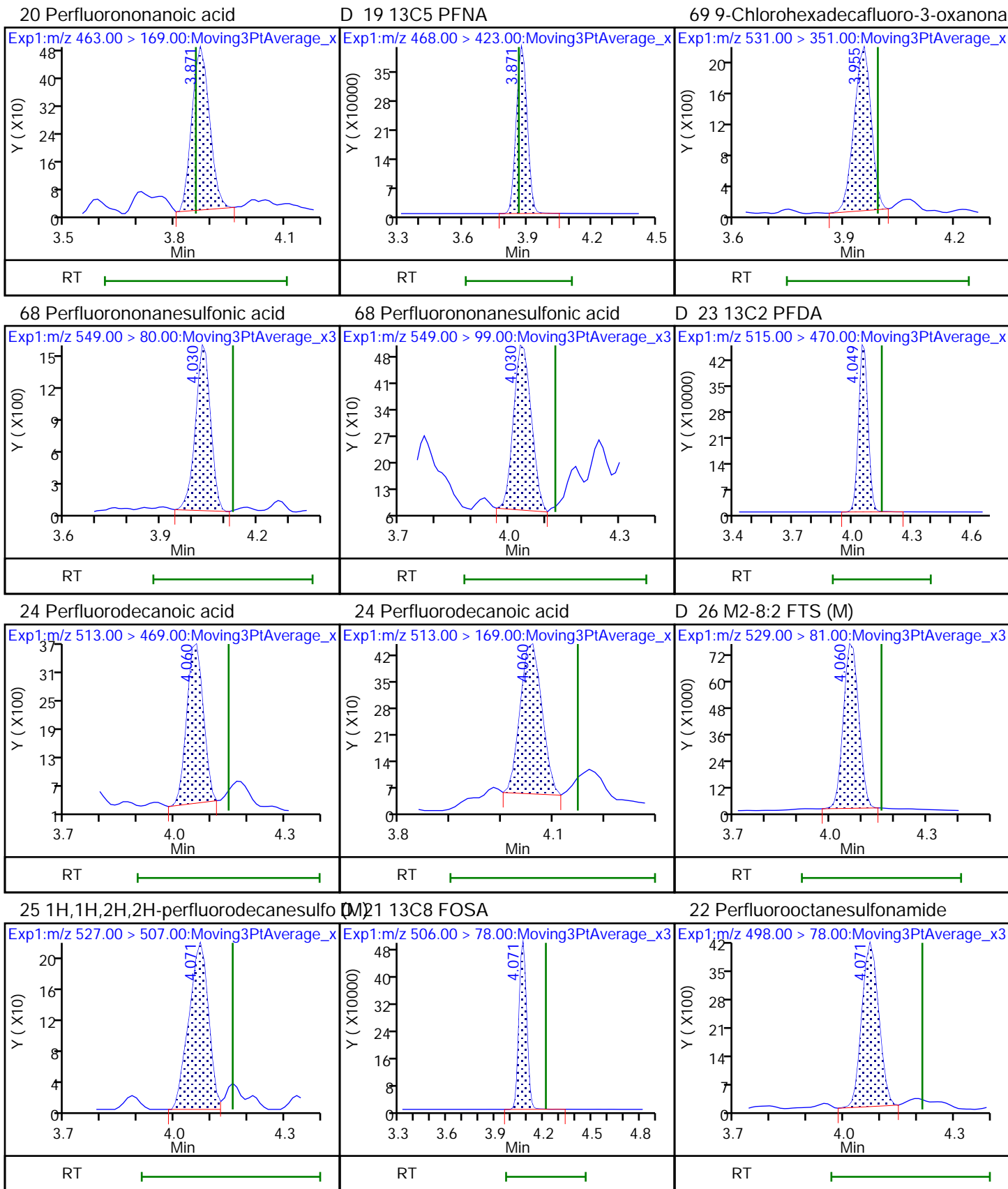


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

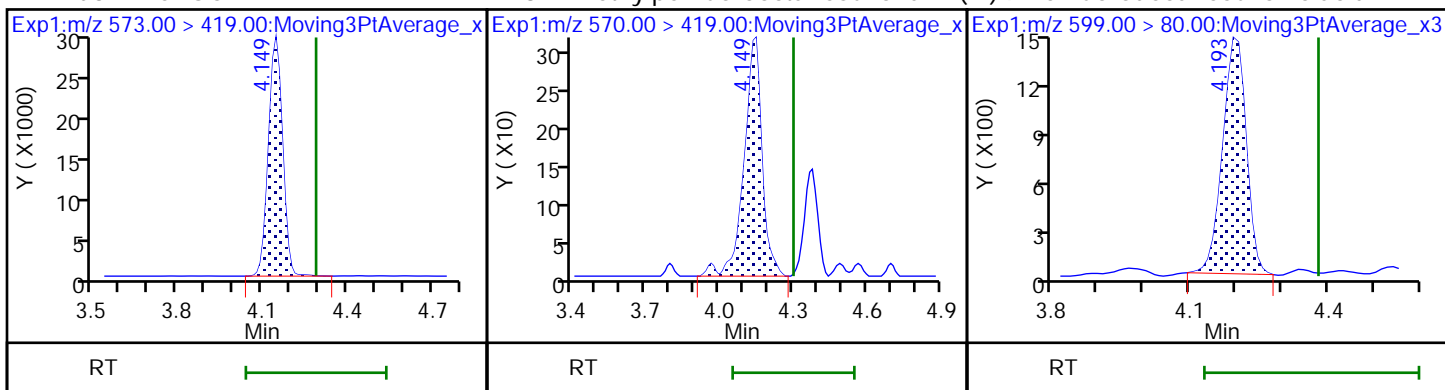
20 Perfluorononanoic acid (M)





D 27 d3-NMeFOSAA

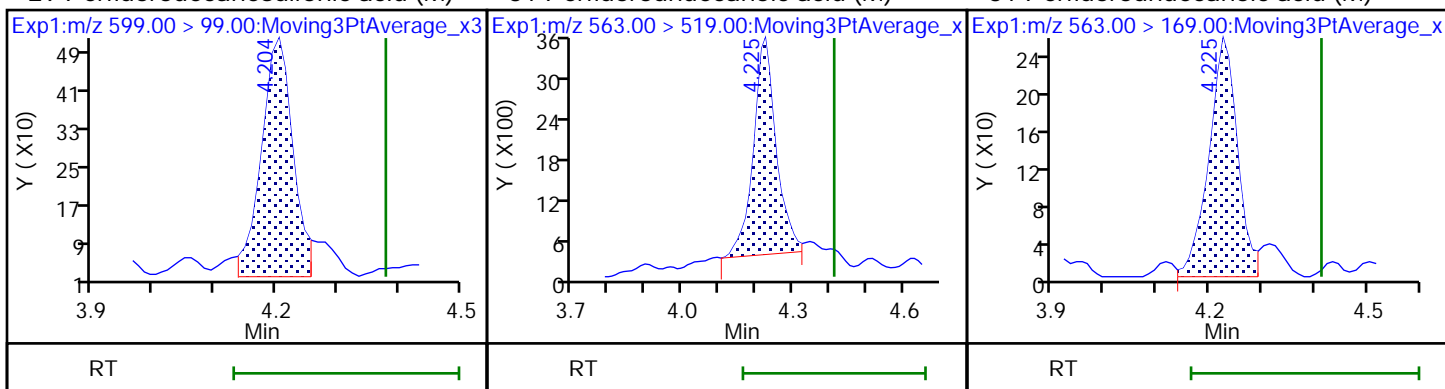
28 N-methylperfluorooctanesulfonami (M)
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid (M)

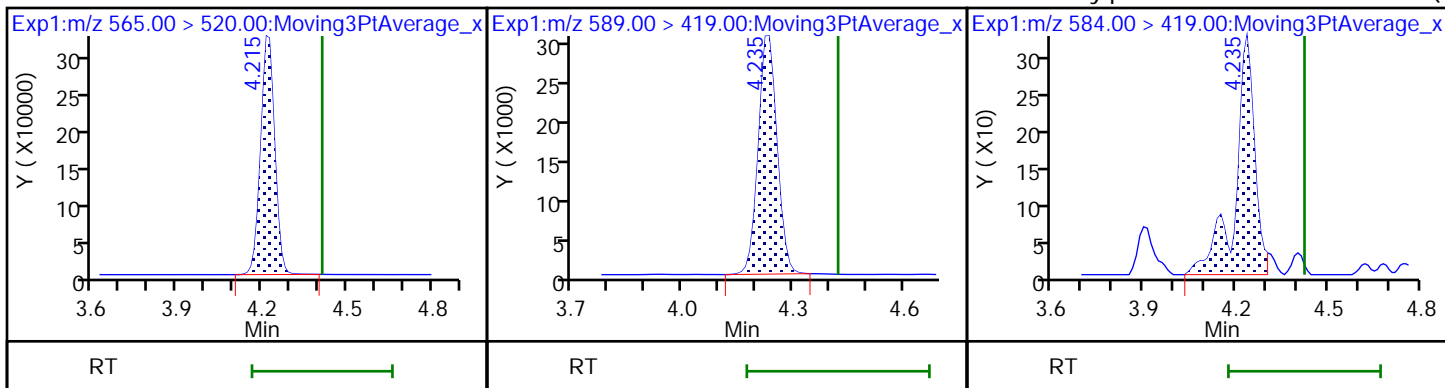
31 Perfluoroundecanoic acid (M)



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

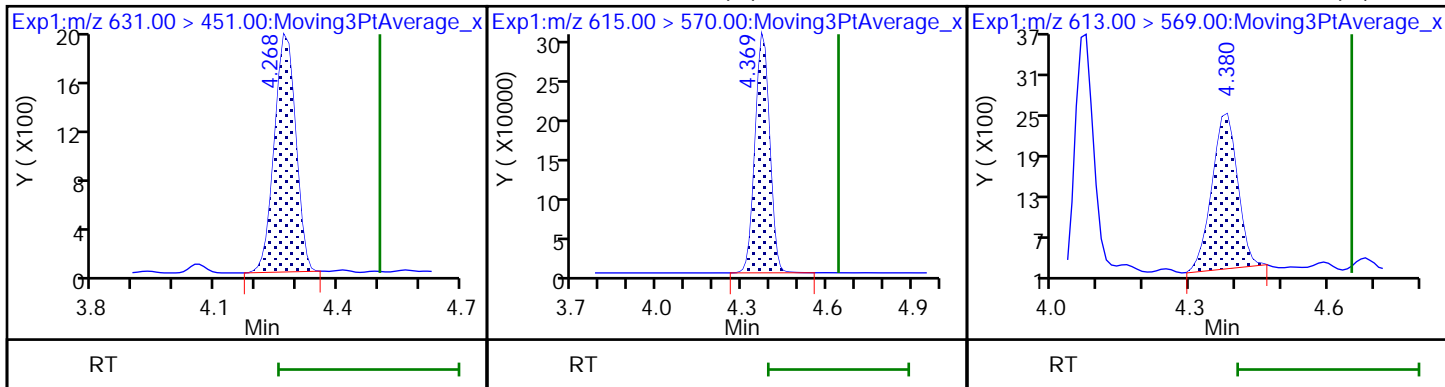
33 N-ethylperfluorooctanesulfonamid (M)

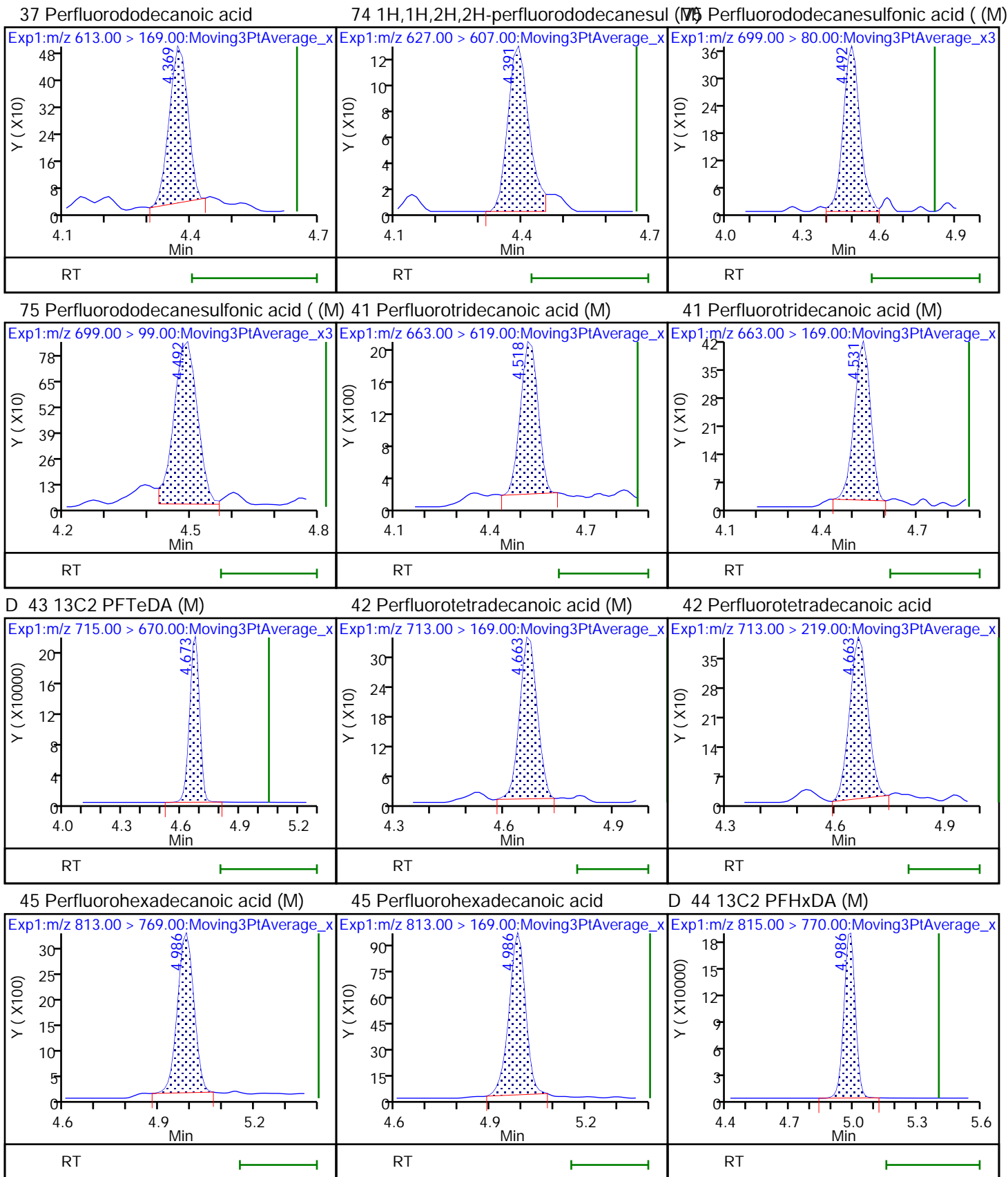


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDaA (M)

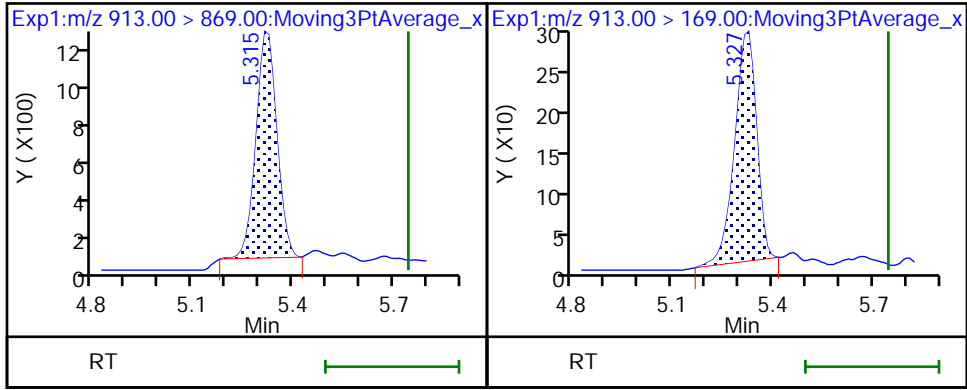
37 Perfluorododecanoic acid (M)





46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

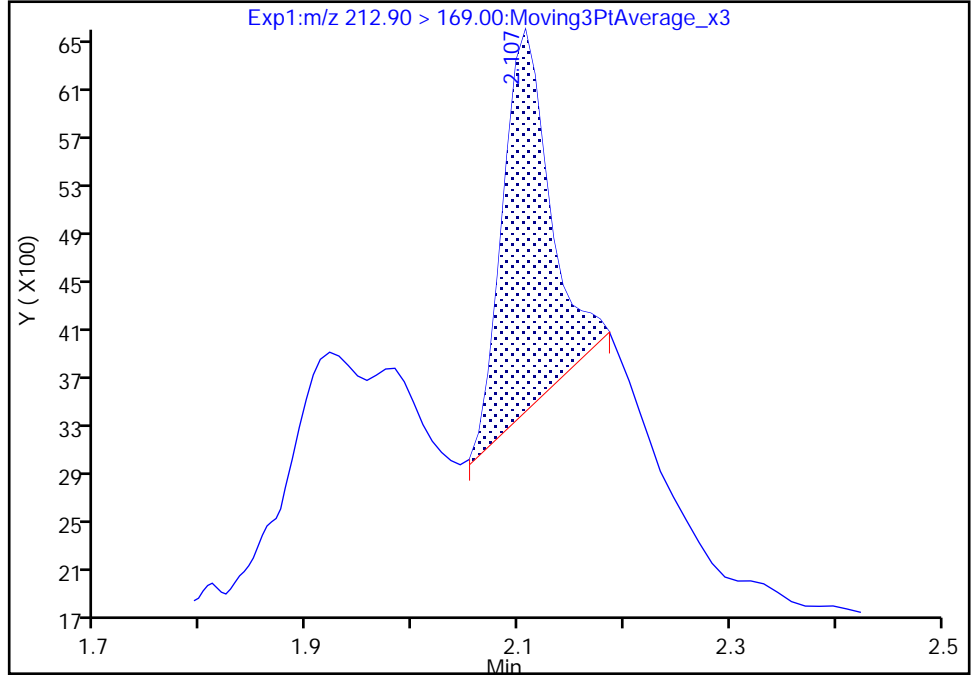
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Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

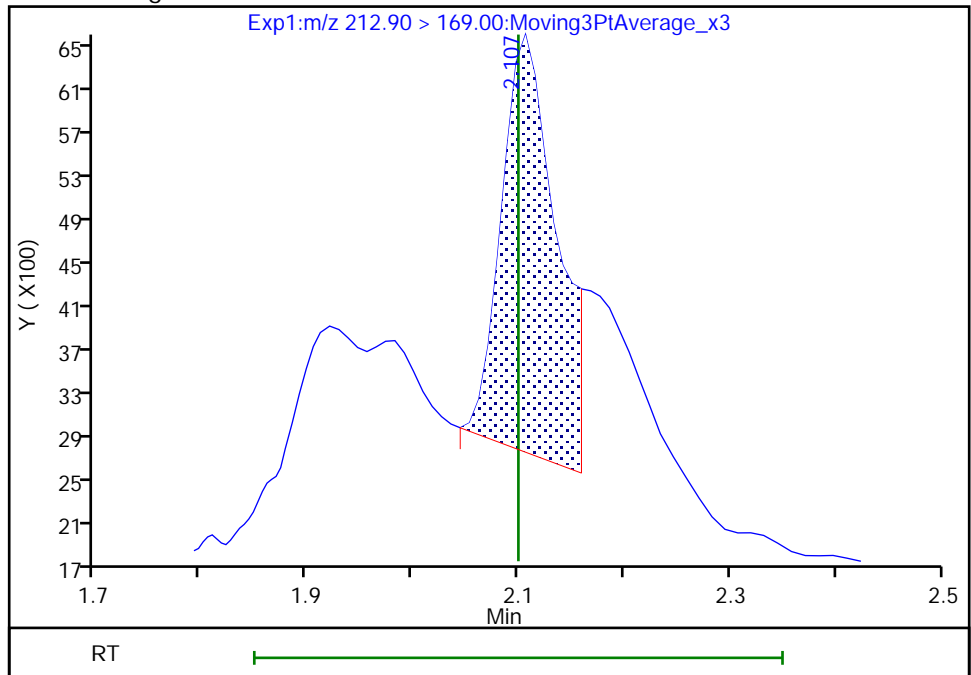
RT: 2.11
Area: 9835
Amount: 0.007879
Amount Units: ng/ml

Processing Integration Results



RT: 2.11
Area: 13700
Amount: 0.010976
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:25:56
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

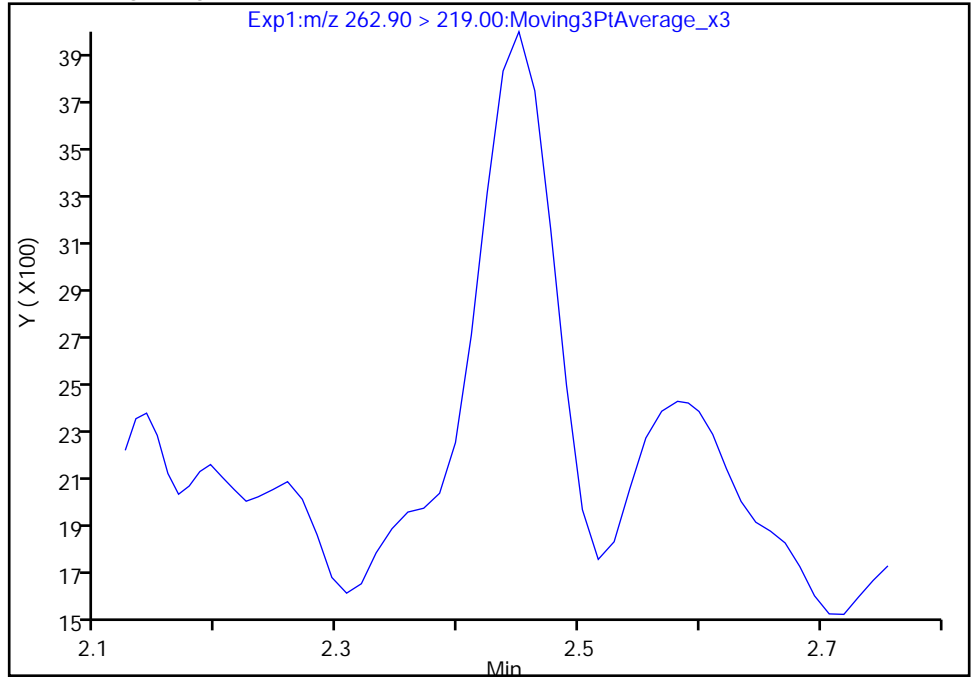
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Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

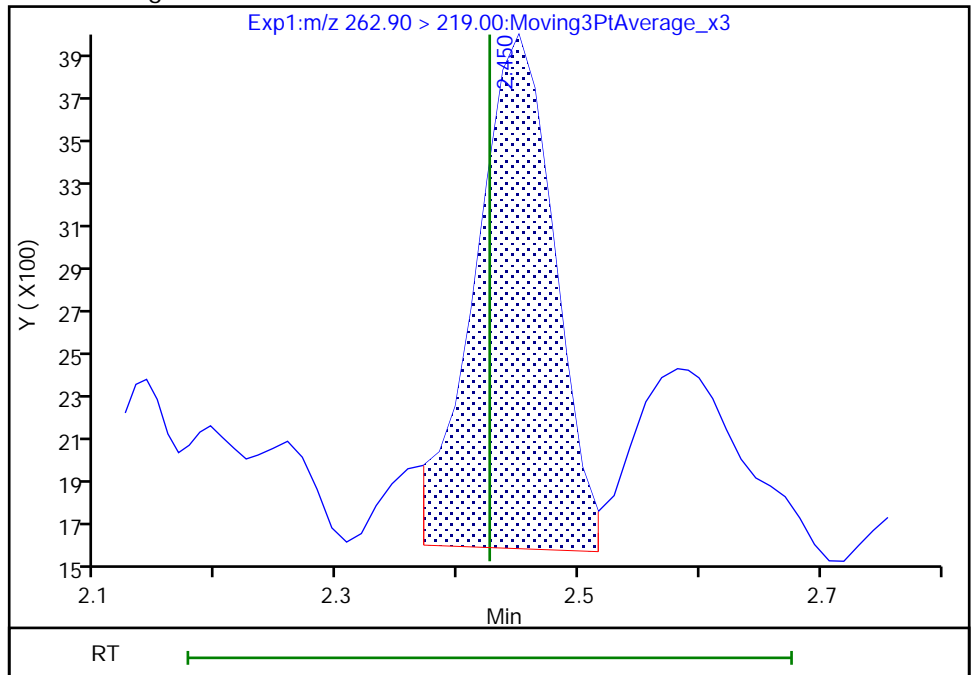
Not Detected
Expected RT: 2.43

Processing Integration Results



Manual Integration Results

RT: 2.45
Area: 10740
Amount: 0.010899
Amount Units: ng/ml



Reviewer: chirgwinb, 20-May-2021 18:26:13
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 655 of 761

Euofins TestAmerica, Burlington

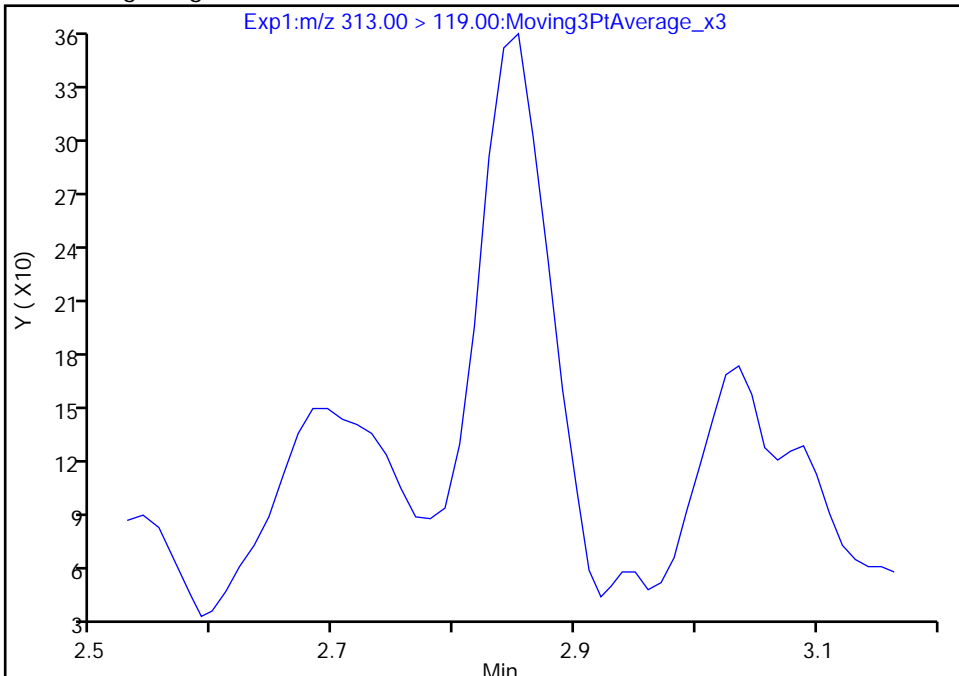
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Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

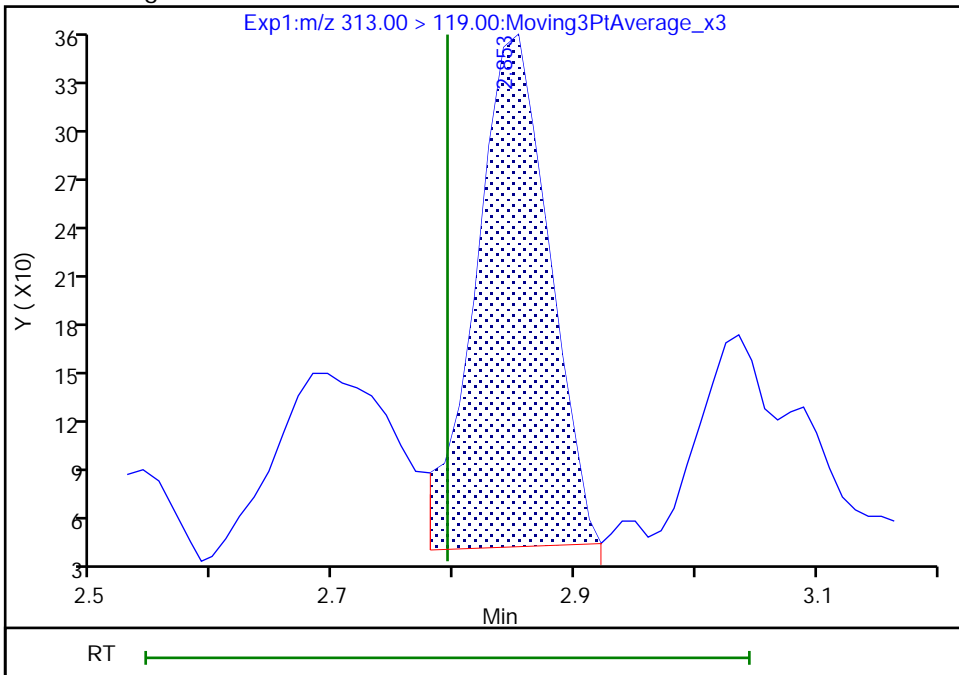
Not Detected
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.85
Area: 1342
Amount: 0.008619
Amount Units: ng/ml



Reviewer: chirgwinb, 20-May-2021 18:27:00
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Euofins TestAmerica, Burlington

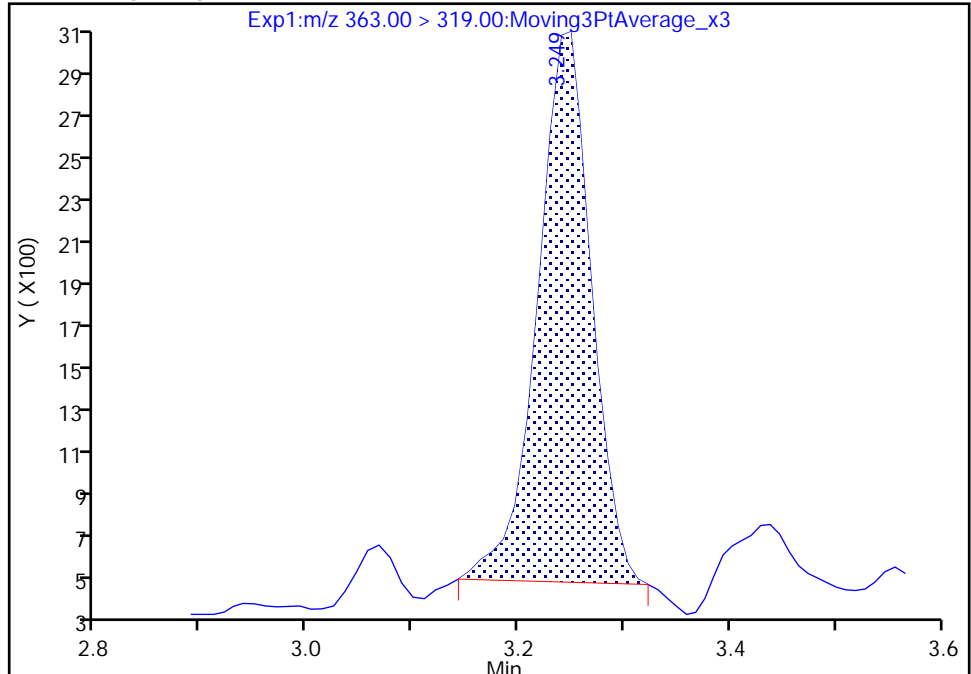
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Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

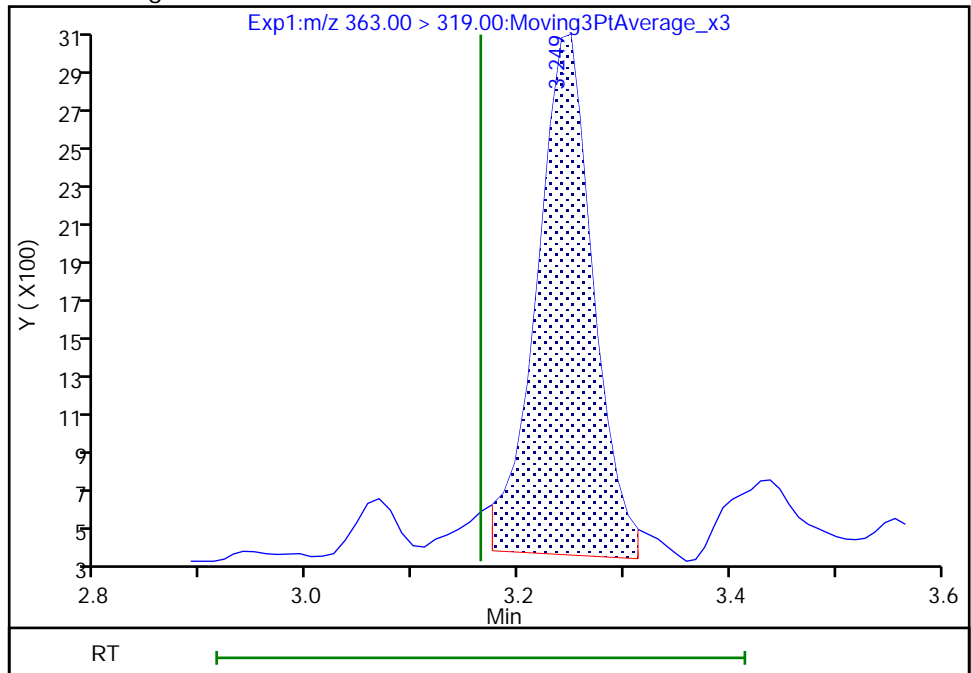
RT: 3.25
Area: 9046
Amount: 0.008716
Amount Units: ng/ml

Processing Integration Results



RT: 3.25
Area: 9874
Amount: 0.009514
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:27:54
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

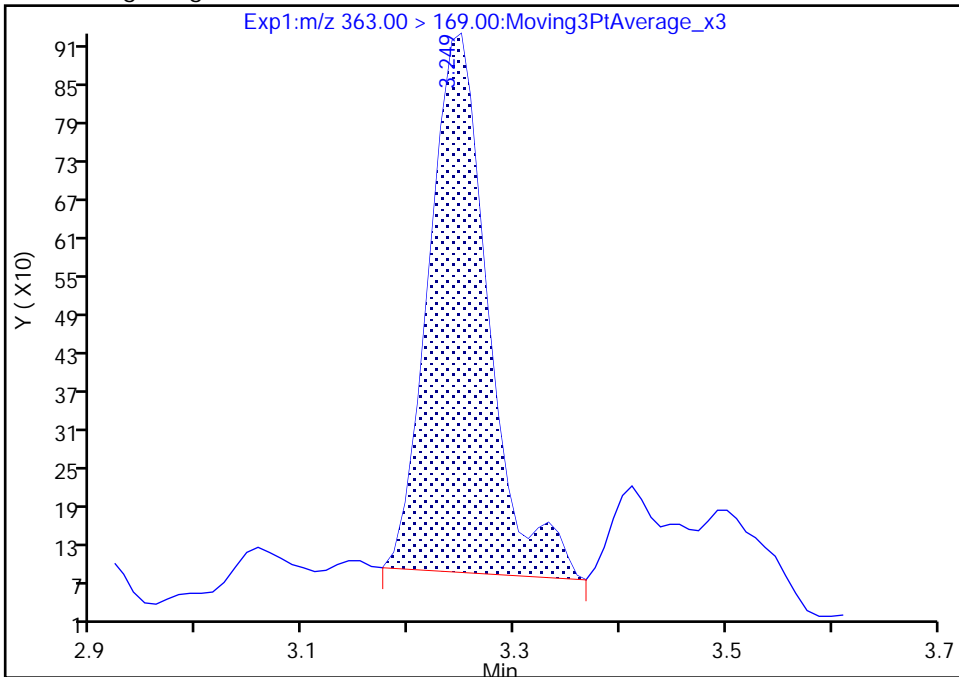
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Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

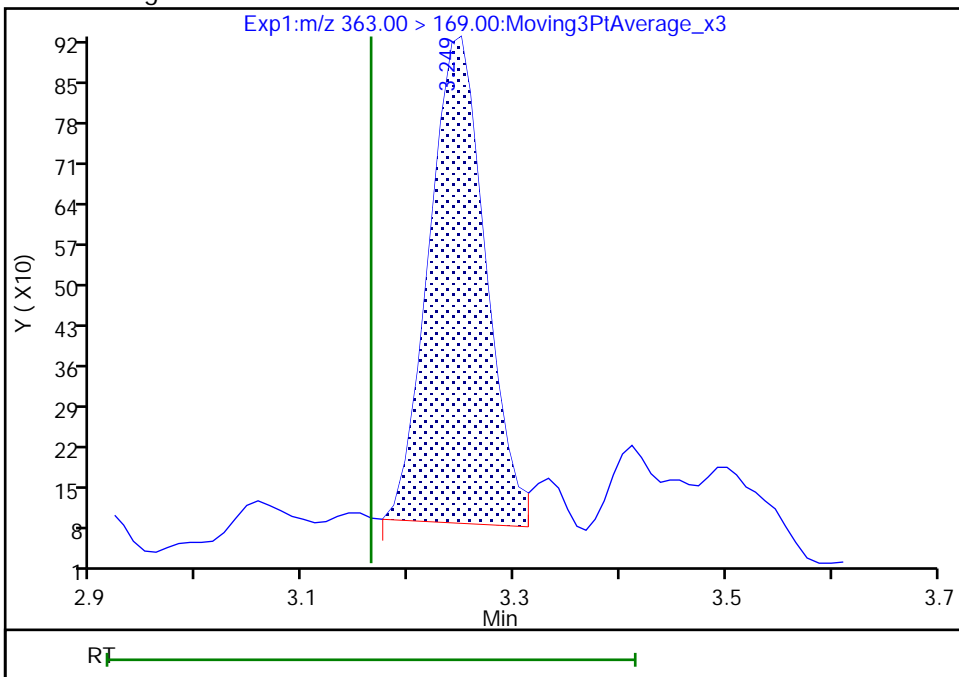
RT: 3.25
Area: 3283
Amount: 0.008716
Amount Units: ng/ml

Processing Integration Results



RT: 3.25
Area: 3111
Amount: 0.009514
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:27:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

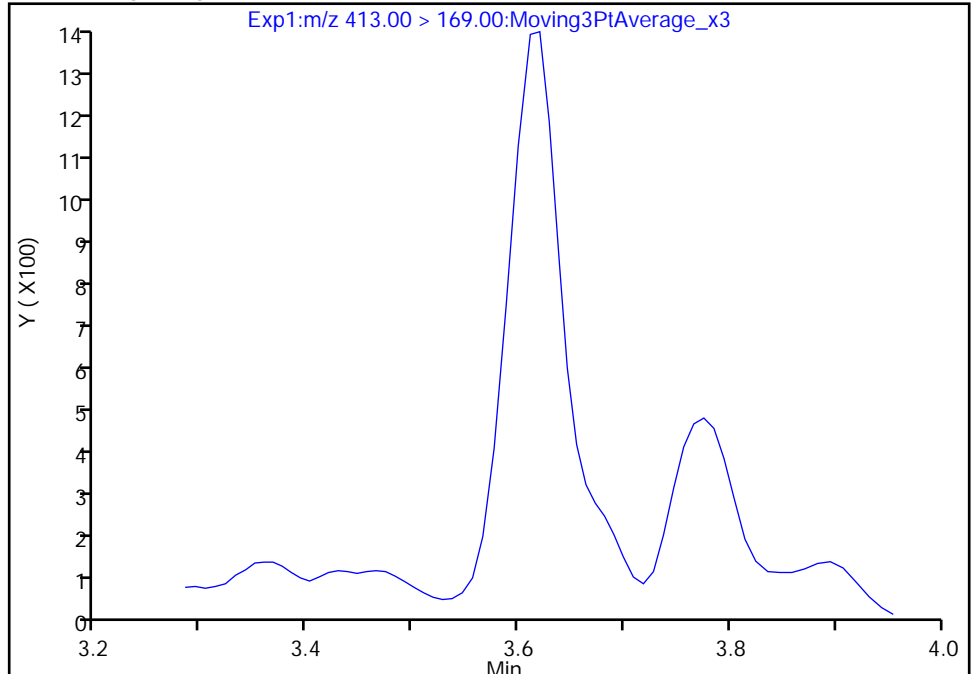
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

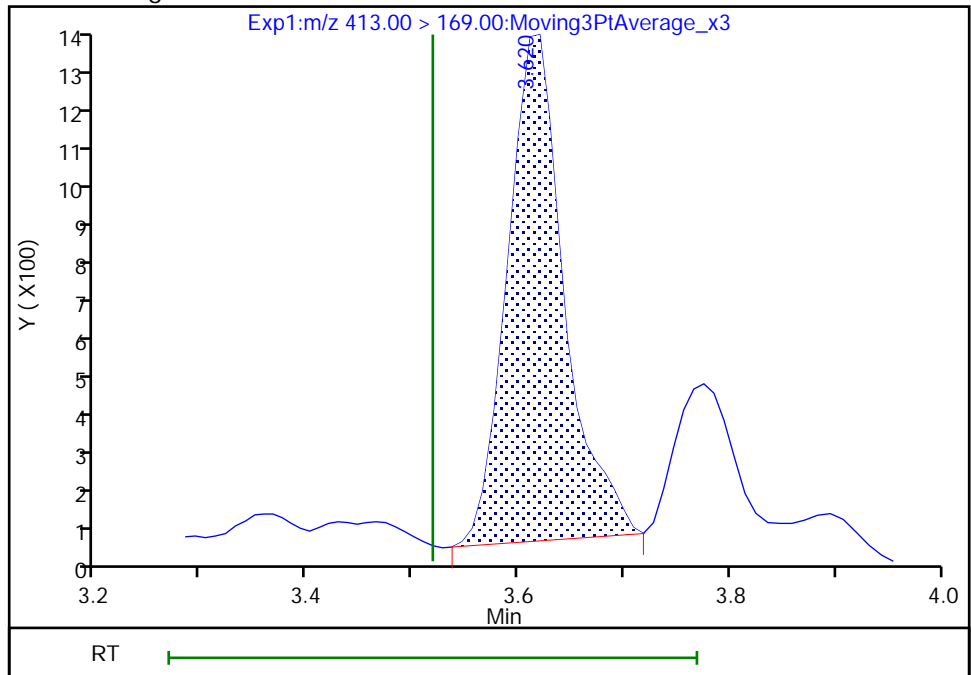
Not Detected
Expected RT: 3.52

Processing Integration Results



Manual Integration Results

RT: 3.62
Area: 4649
Amount: 0.009953
Amount Units: ng/ml



Reviewer: chirgwinb, 20-May-2021 18:28:38
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

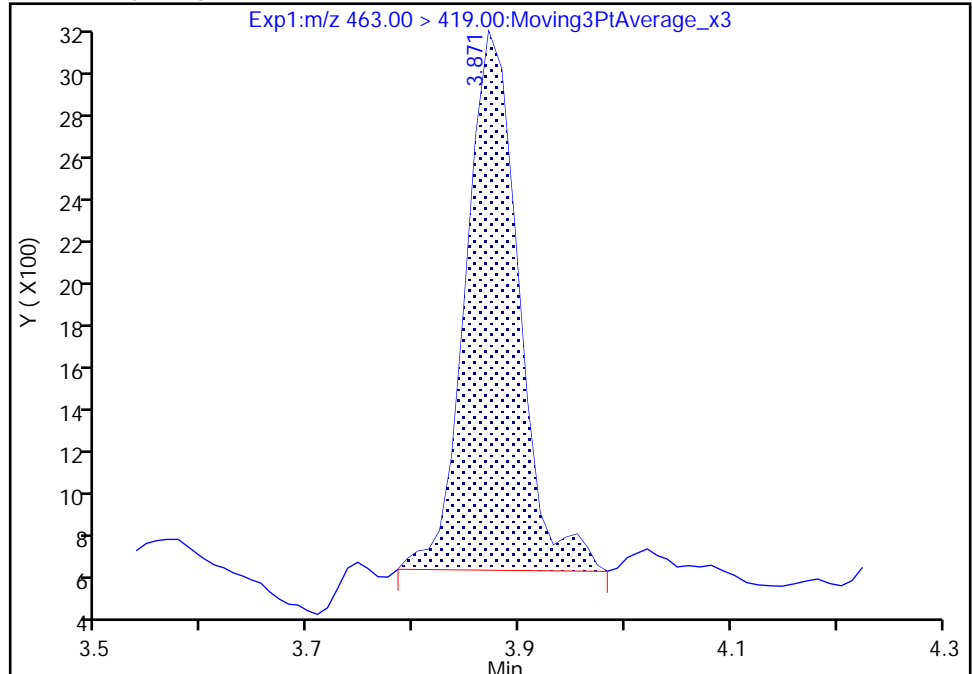
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

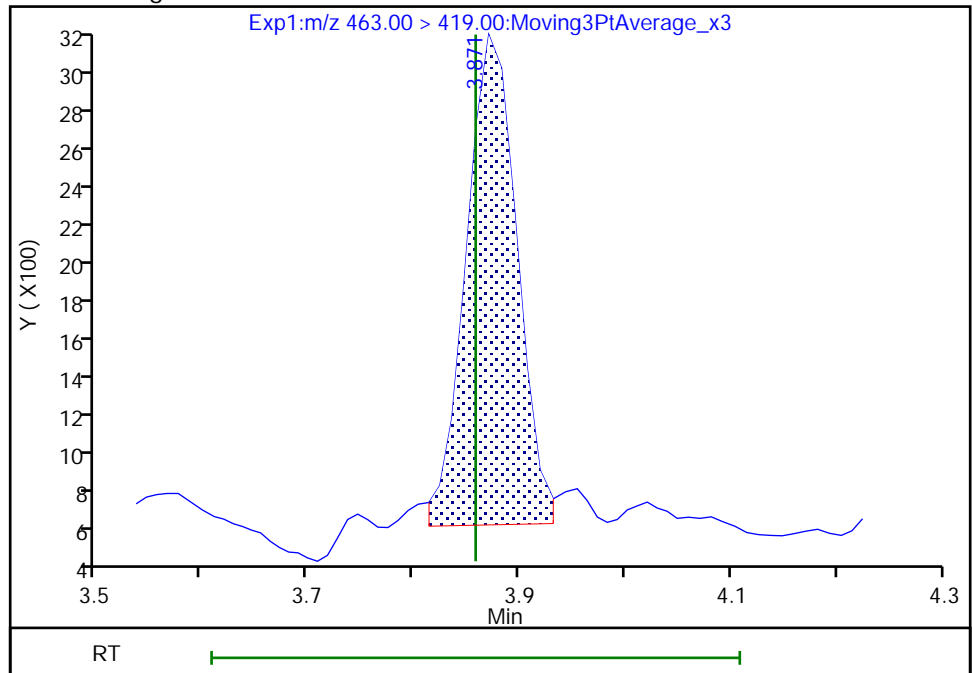
RT: 3.87
Area: 8855
Amount: 0.008071
Amount Units: ng/ml

Processing Integration Results



RT: 3.87
Area: 8537
Amount: 0.007781
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:29:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

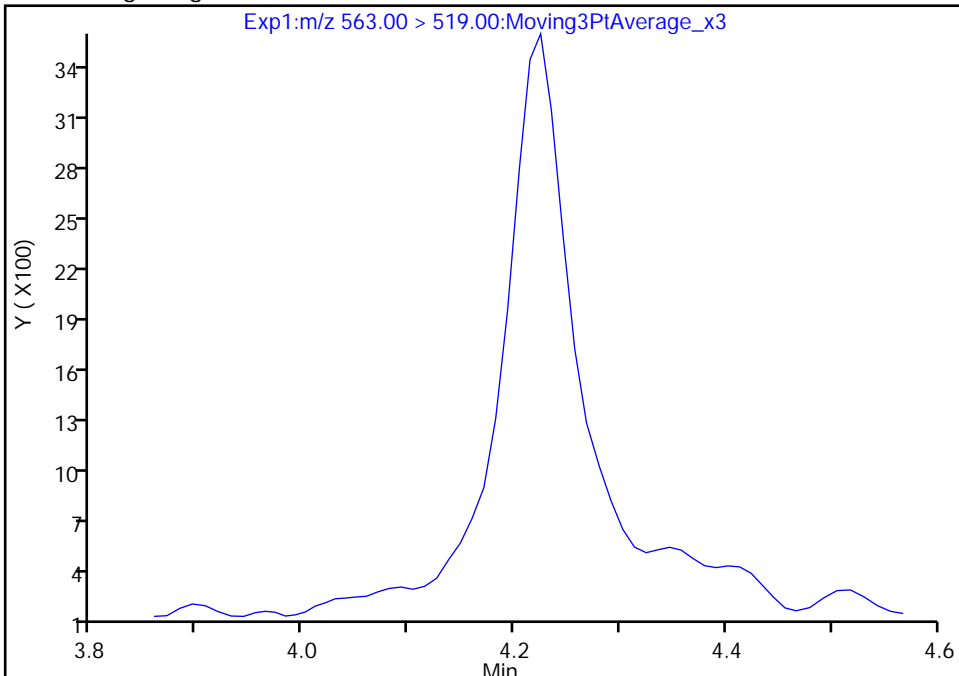
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

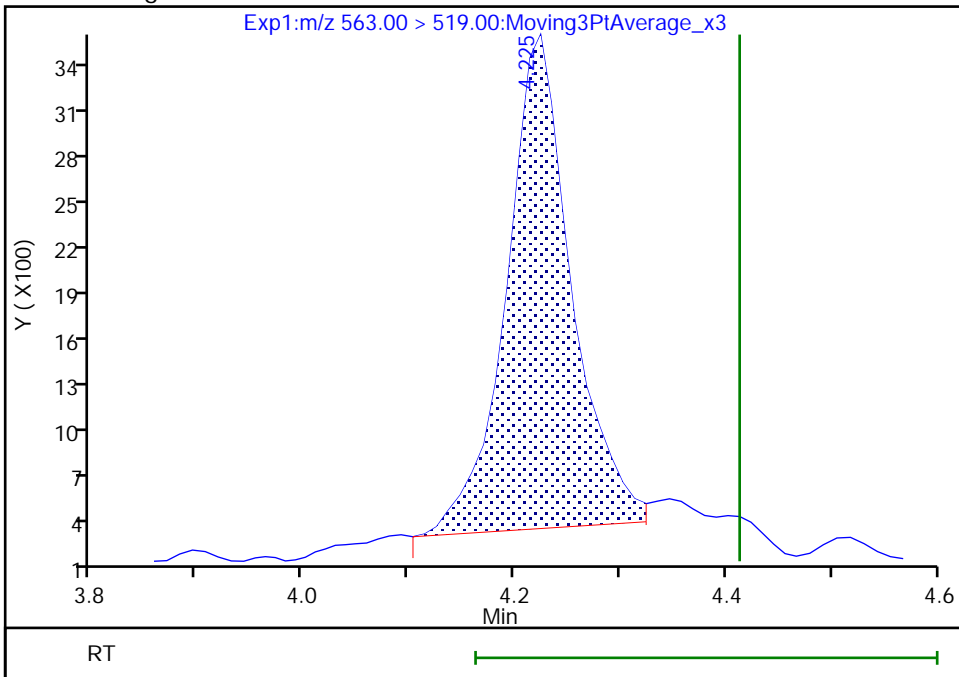
Signal: 1

Not Detected
Expected RT: 4.41

Processing Integration Results



Manual Integration Results



RT: 4.22
Area: 13777
Amount: 0.015615
Amount Units: ng/ml

Reviewer: chirgwinb, 20-May-2021 18:30:43
Audit Action: Manually Integrated

Audit Reason: Missed Peak
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Eurofins TestAmerica, Burlington

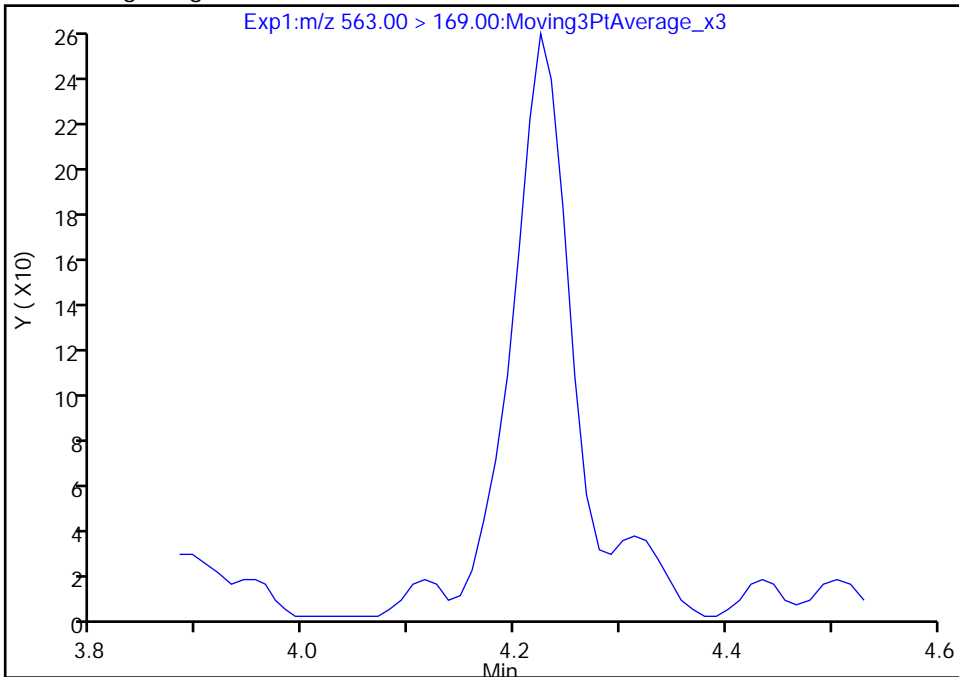
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

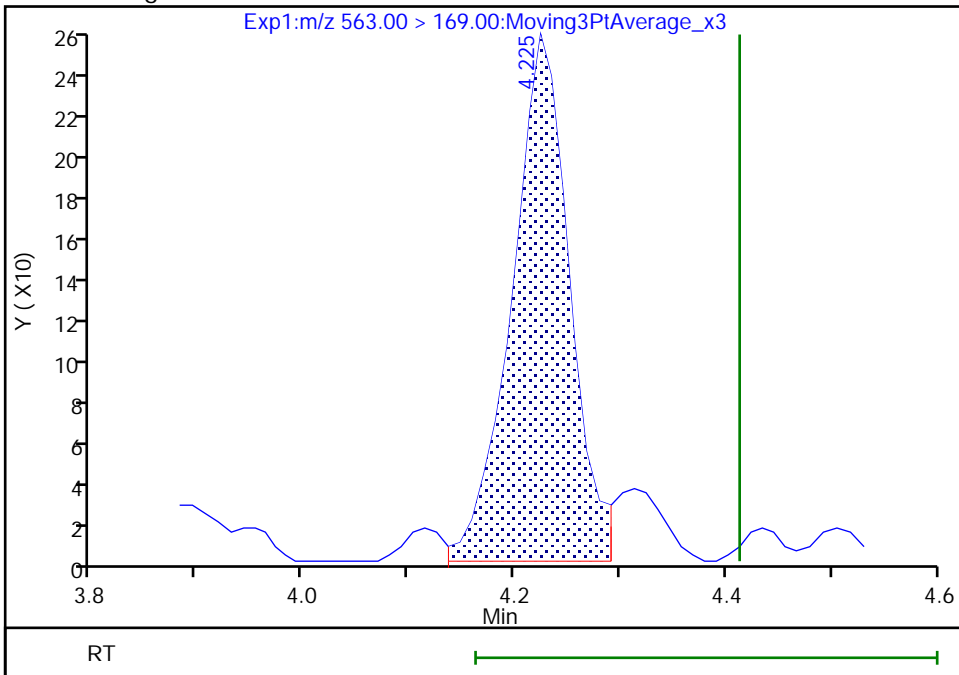
Not Detected
Expected RT: 4.41

Processing Integration Results



Manual Integration Results

RT: 4.22
Area: 957
Amount: 0.015615
Amount Units: ng/ml



Euofins TestAmerica, Burlington

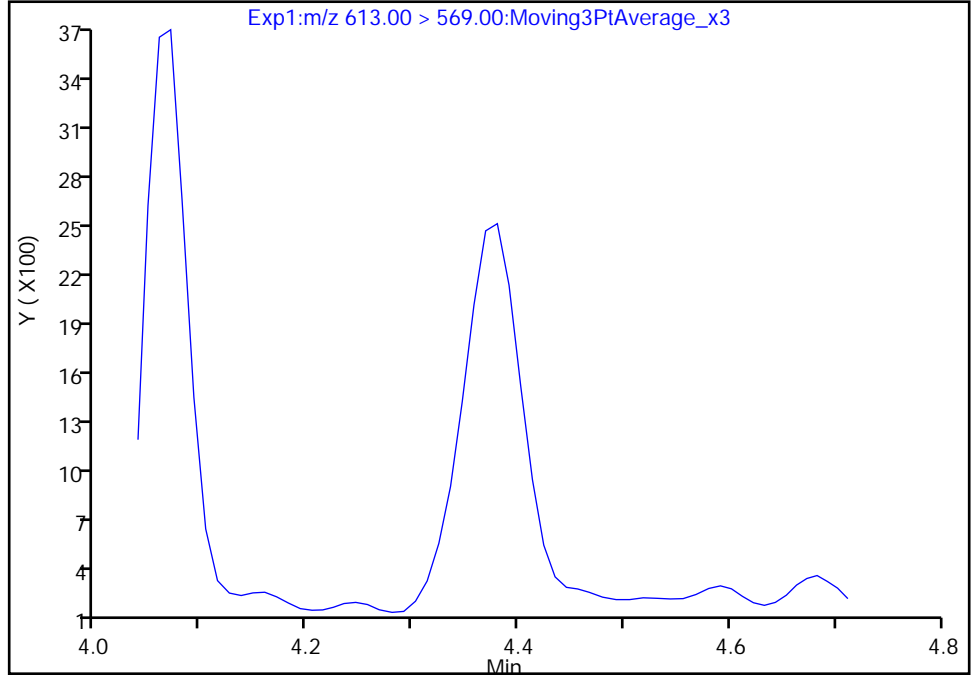
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

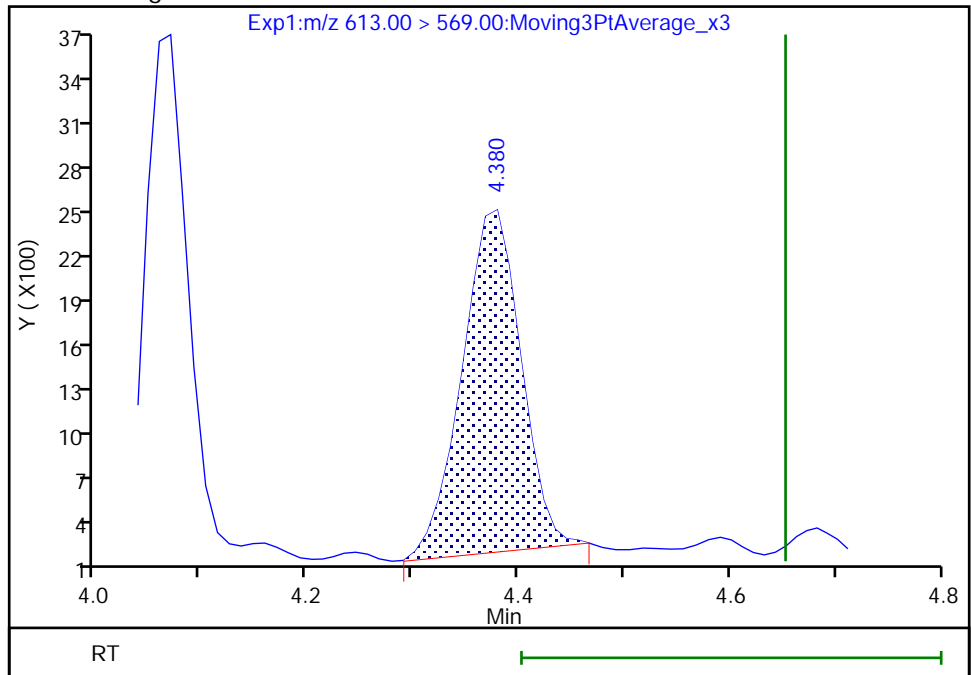
Not Detected
Expected RT: 4.65

Processing Integration Results



Manual Integration Results

RT: 4.38
Area: 8957
Amount: 0.010314
Amount Units: ng/ml



Reviewer: chirgwinb, 20-May-2021 18:31:10
Audit Action: Assigned Compound ID

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

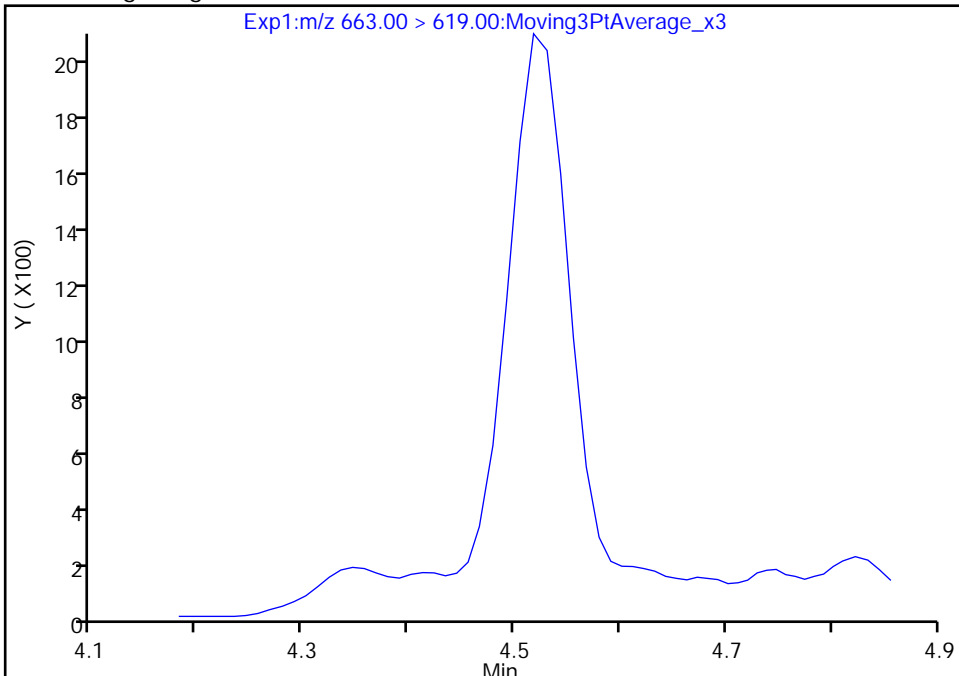
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

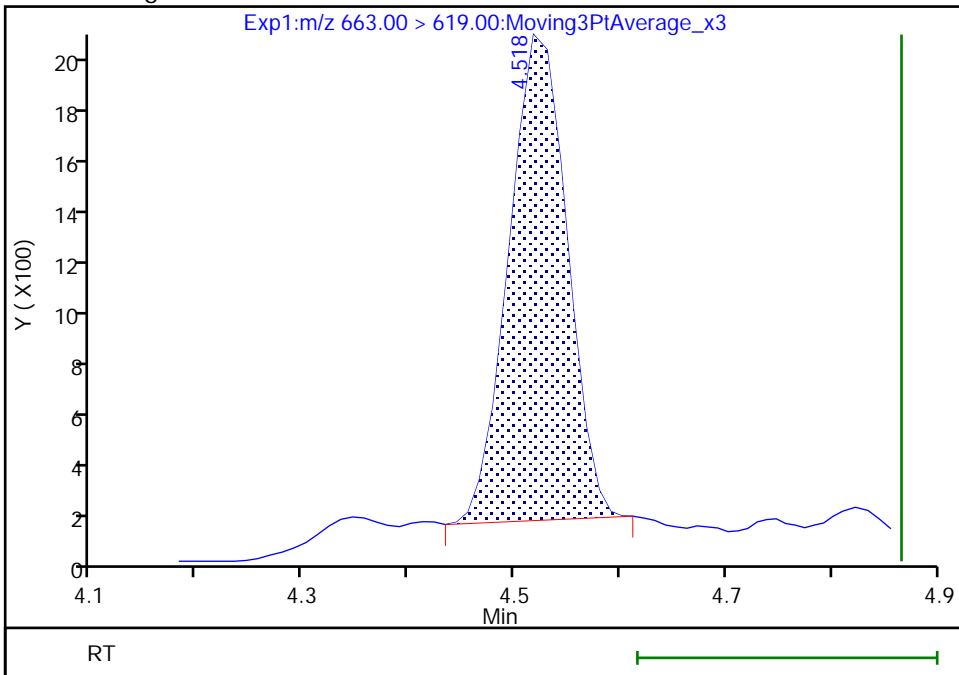
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.52
Area: 7105
Amount: 0.010146
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

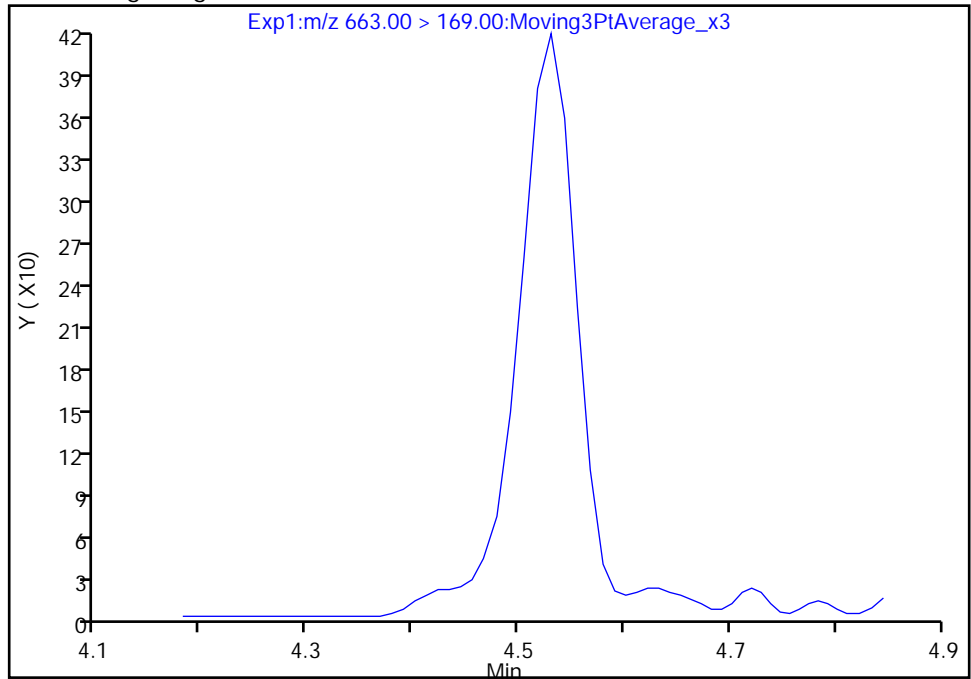
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

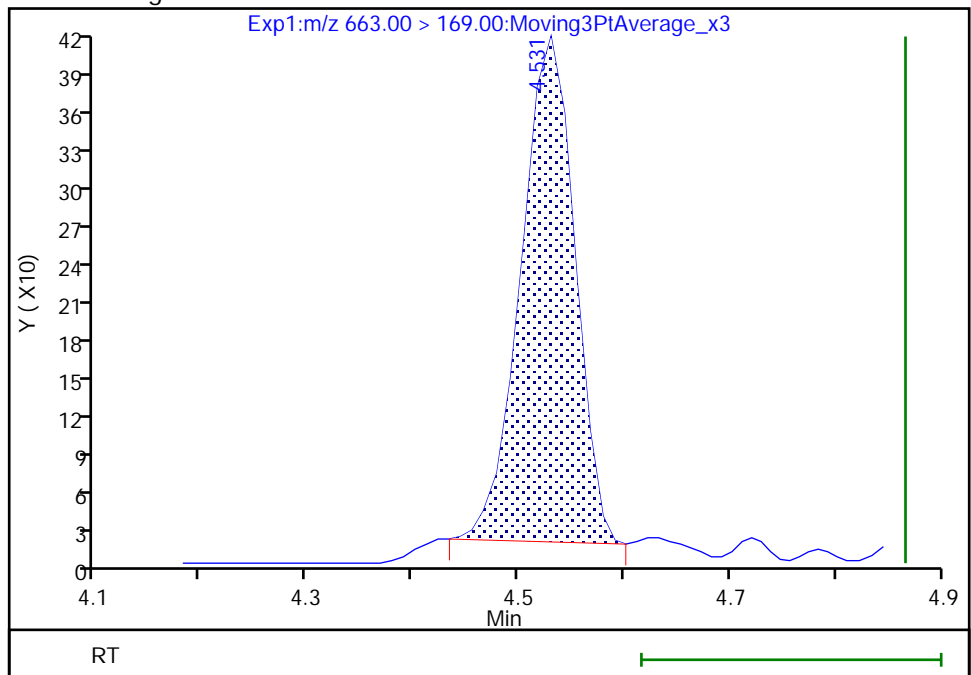
Not Detected
Expected RT: 4.87

Processing Integration Results



Manual Integration Results

RT: 4.53
Area: 1406
Amount: 0.010146
Amount Units: ng/ml



Reviewer: chirgwinb, 20-May-2021 18:31:55

Audit Action: Manually Integrated

Audit Reason: Missed Peak
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Euofins TestAmerica, Burlington

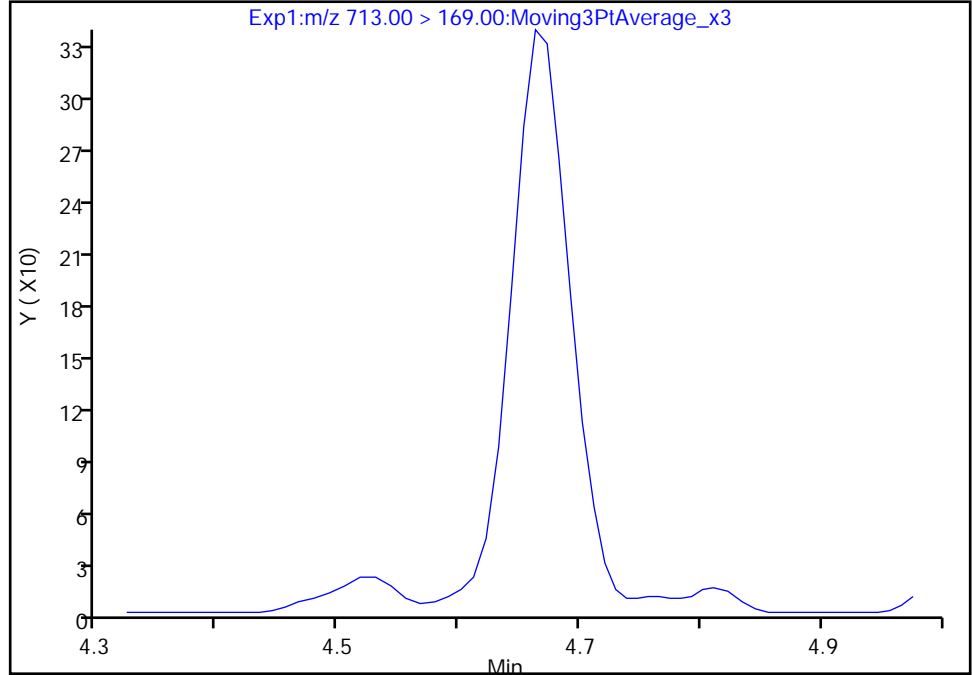
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

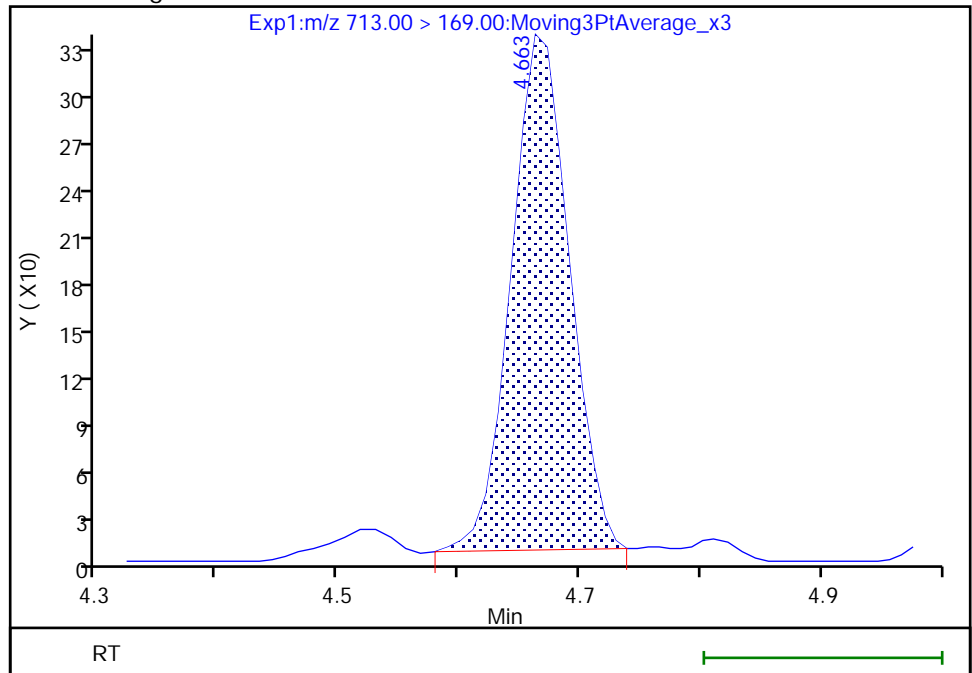
Signal: 1

Not Detected
Expected RT: 5.05

Processing Integration Results



Manual Integration Results



RT: 4.66
Area: 1082
Amount: 0.008782
Amount Units: ng/ml

Euofins TestAmerica, Burlington

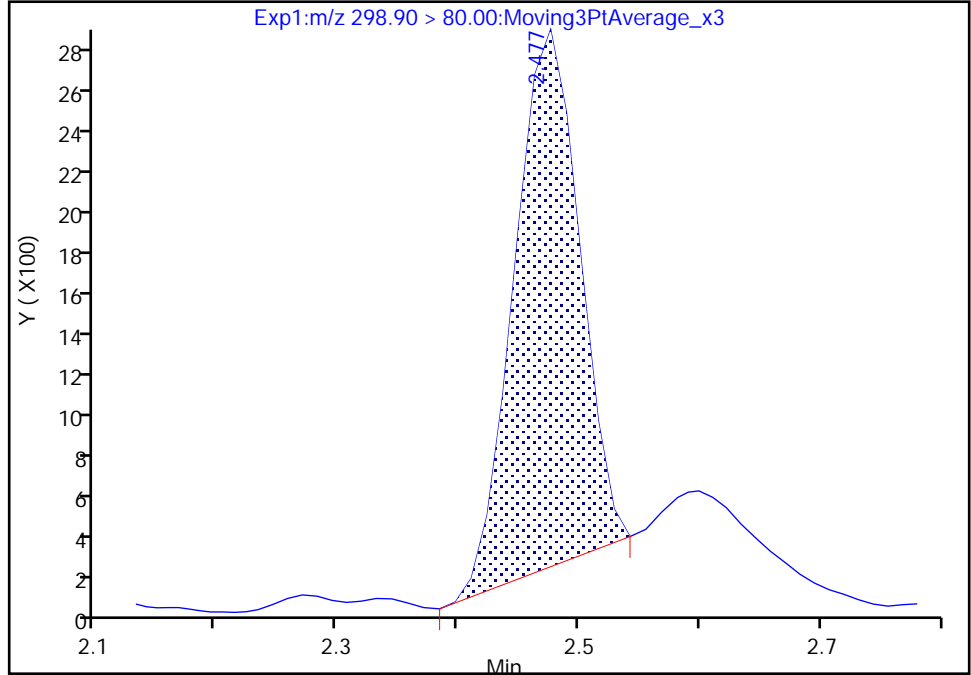
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

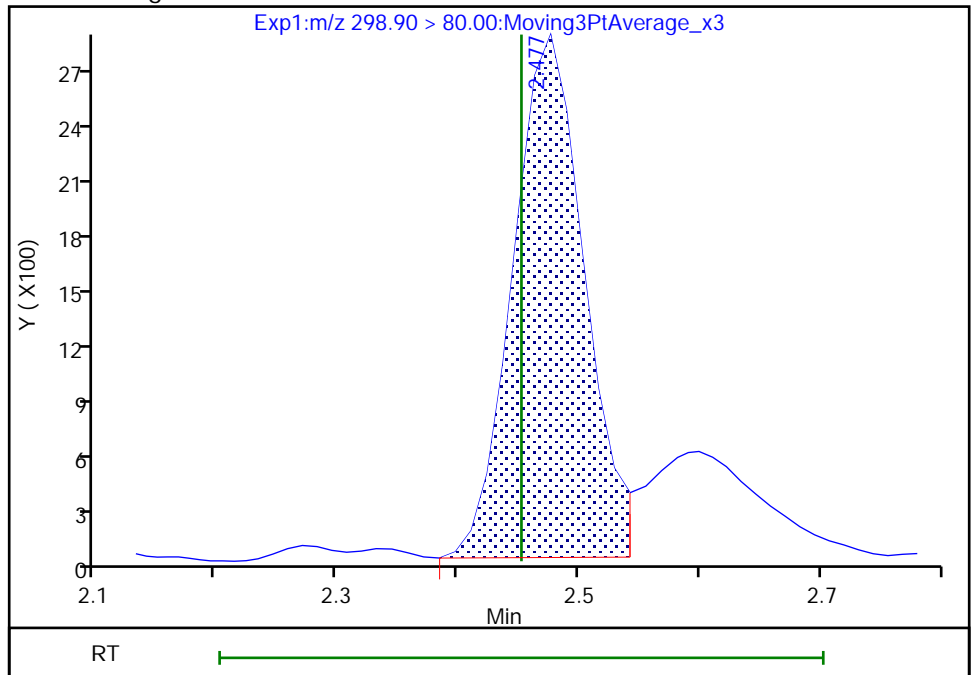
RT: 2.48
Area: 9753
Amount: 0.007753
Amount Units: ng/ml

Processing Integration Results



RT: 2.48
Area: 11375
Amount: 0.009043
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:26:29
Audit Action: Manually Integrated

Audit Reason: Missed Peak
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Eurofins TestAmerica, Burlington

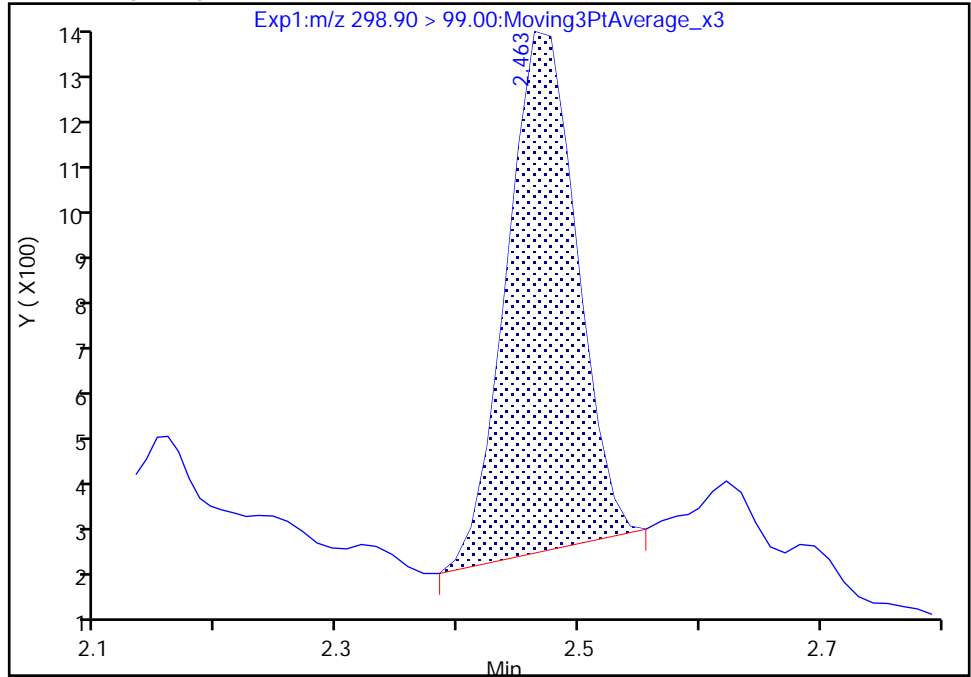
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

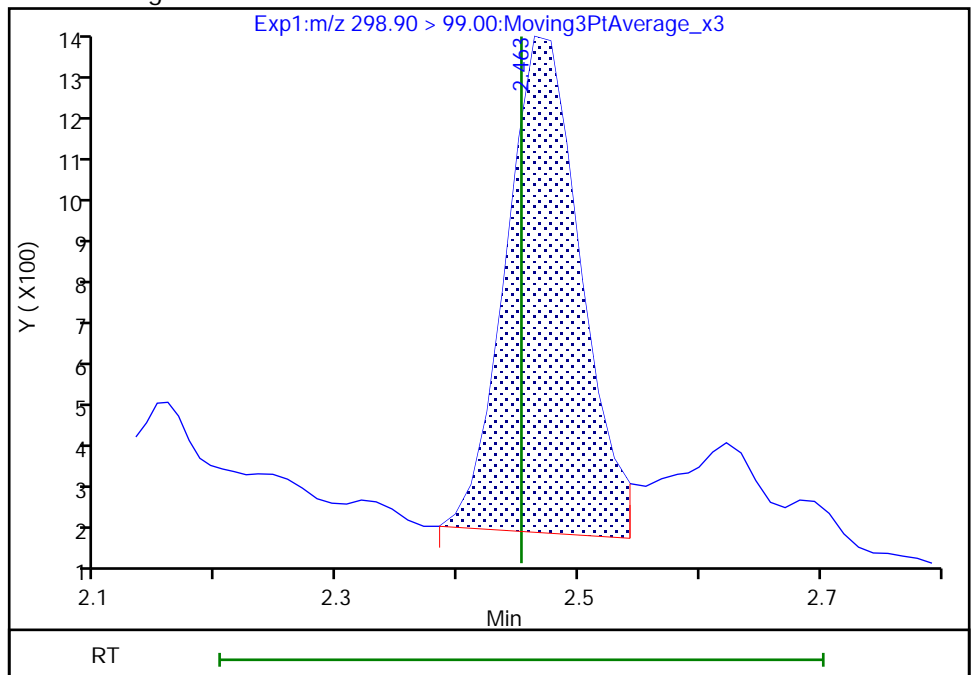
RT: 2.46
Area: 4262
Amount: 0.007753
Amount Units: ng/ml

Processing Integration Results



RT: 2.46
Area: 4778
Amount: 0.009043
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:26:31

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

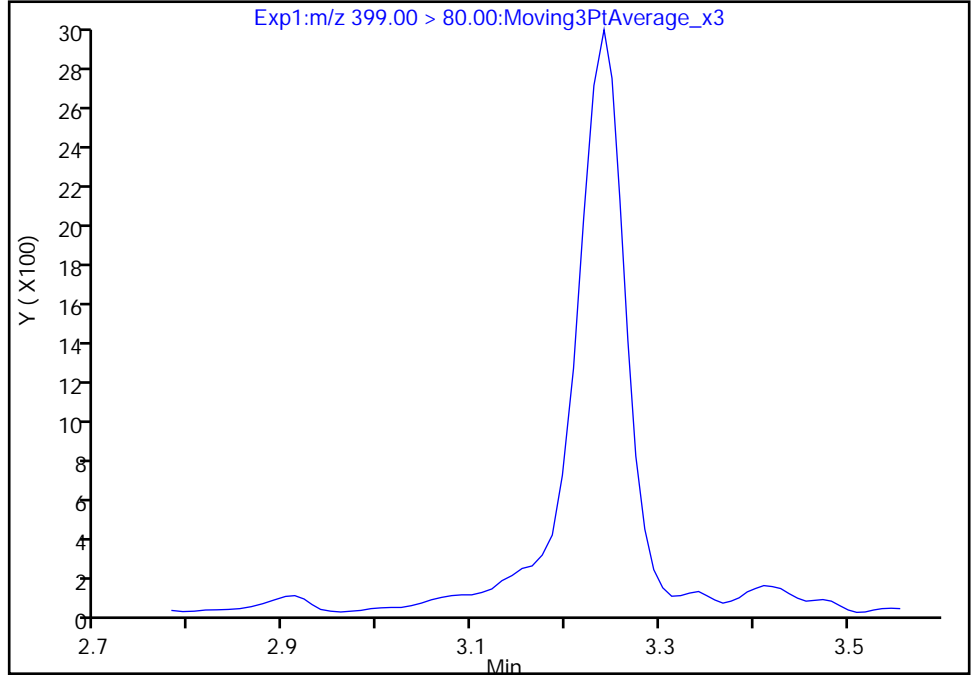
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

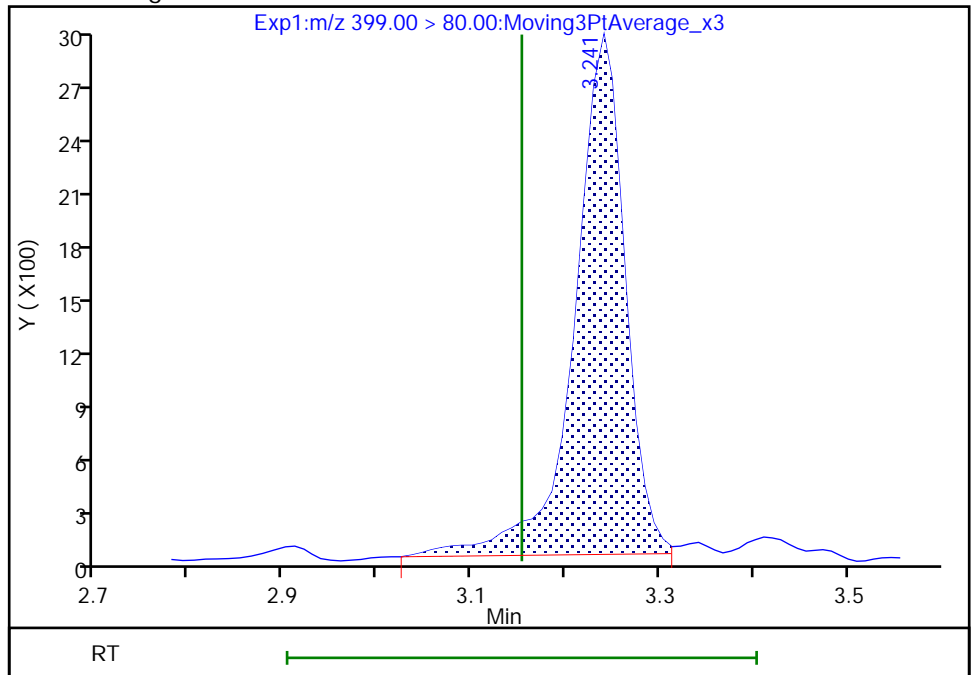
Not Detected
Expected RT: 3.15

Processing Integration Results



Manual Integration Results

RT: 3.24
Area: 10933
Amount: 0.010897
Amount Units: ng/ml



Reviewer: chirgwinb, 20-May-2021 18:27:33
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

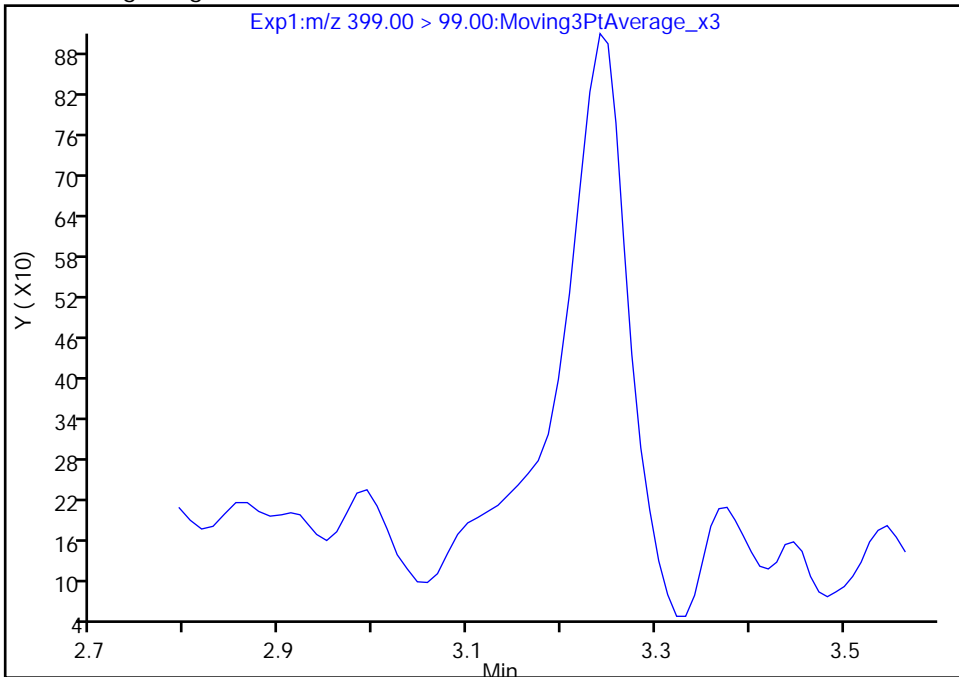
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

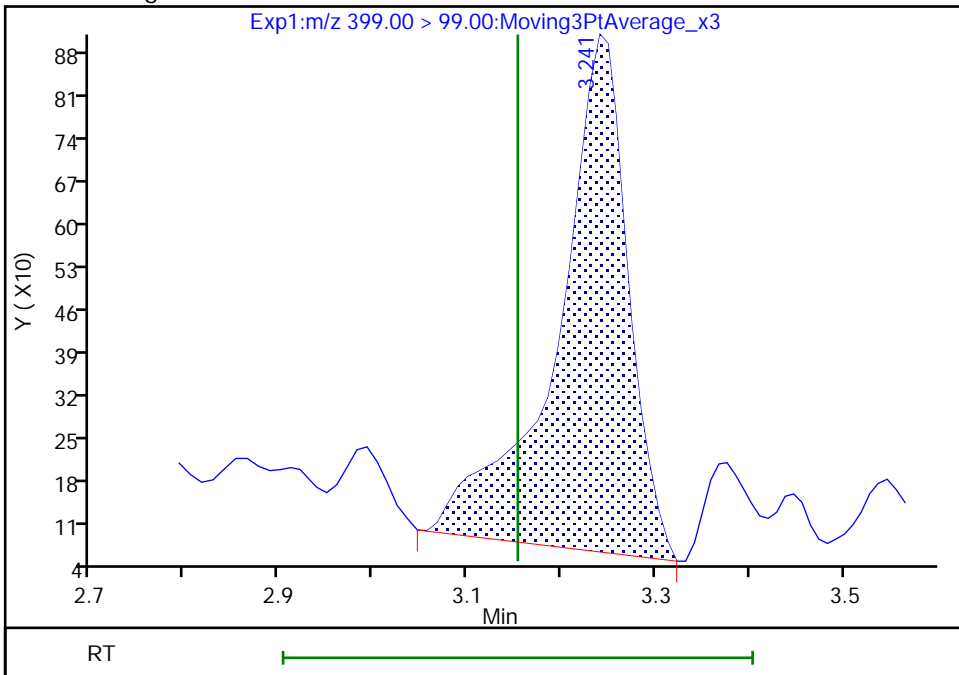
Not Detected
Expected RT: 3.15

Processing Integration Results



RT: 3.24
Area: 4449
Amount: 0.010897
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

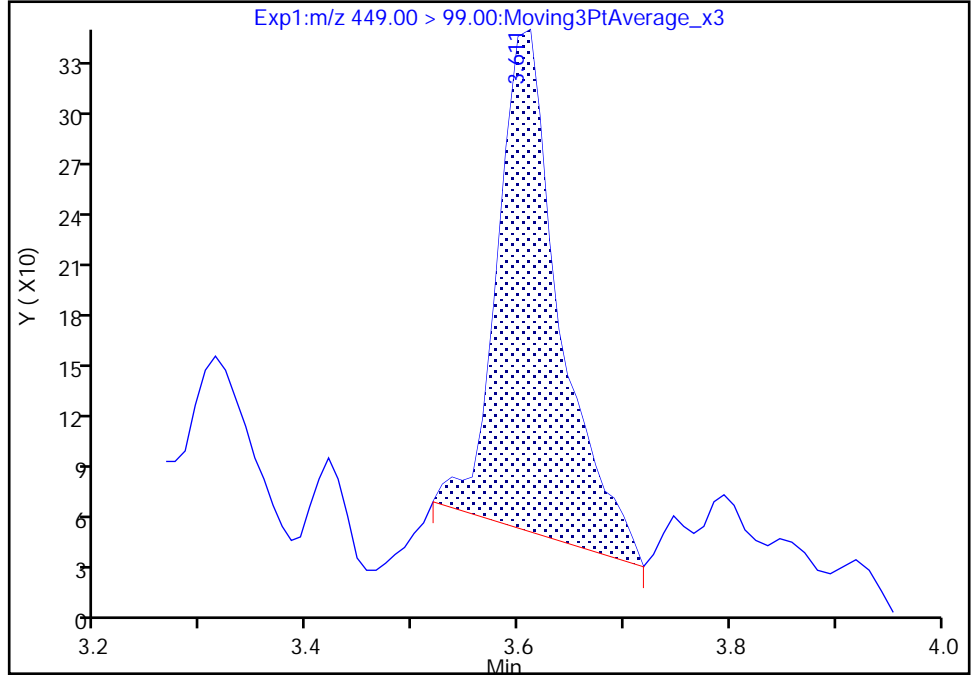
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

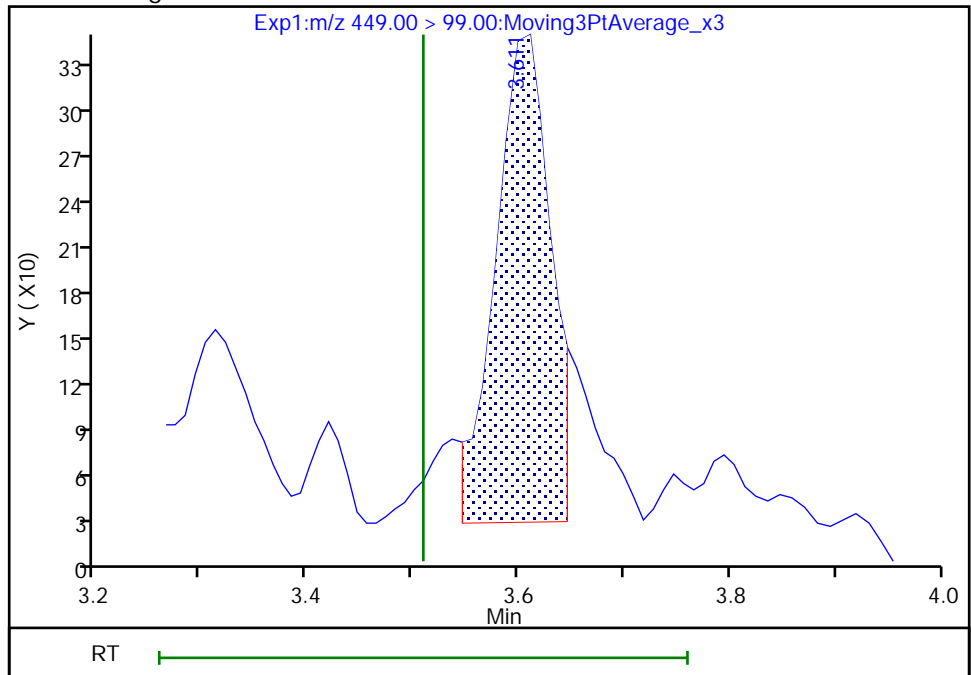
RT: 3.61
Area: 1164
Amount: 0.008284
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 1097
Amount: 0.008284
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:28:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

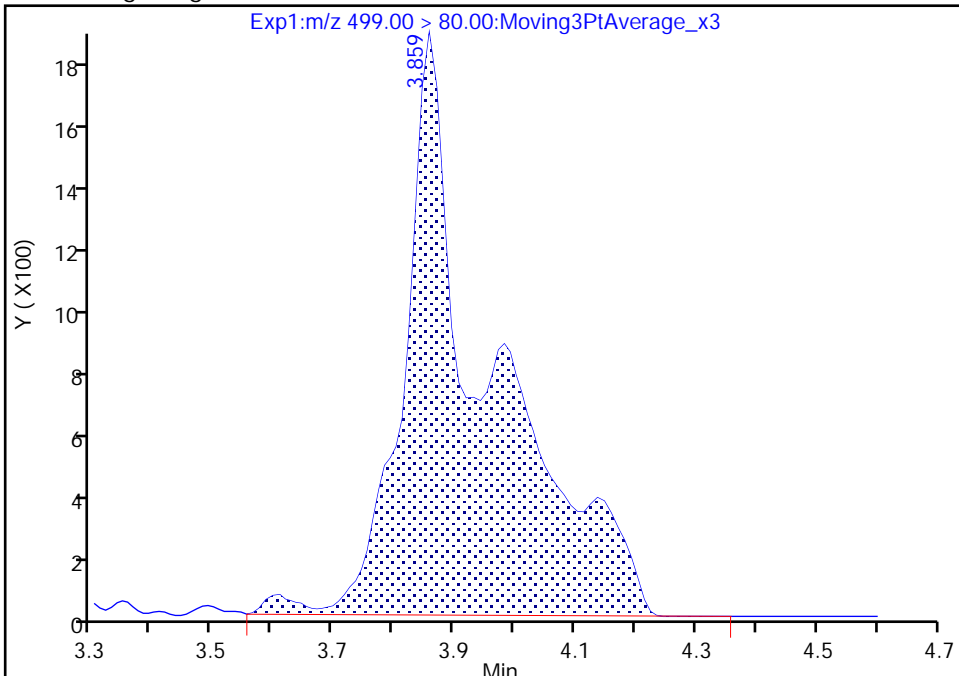
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

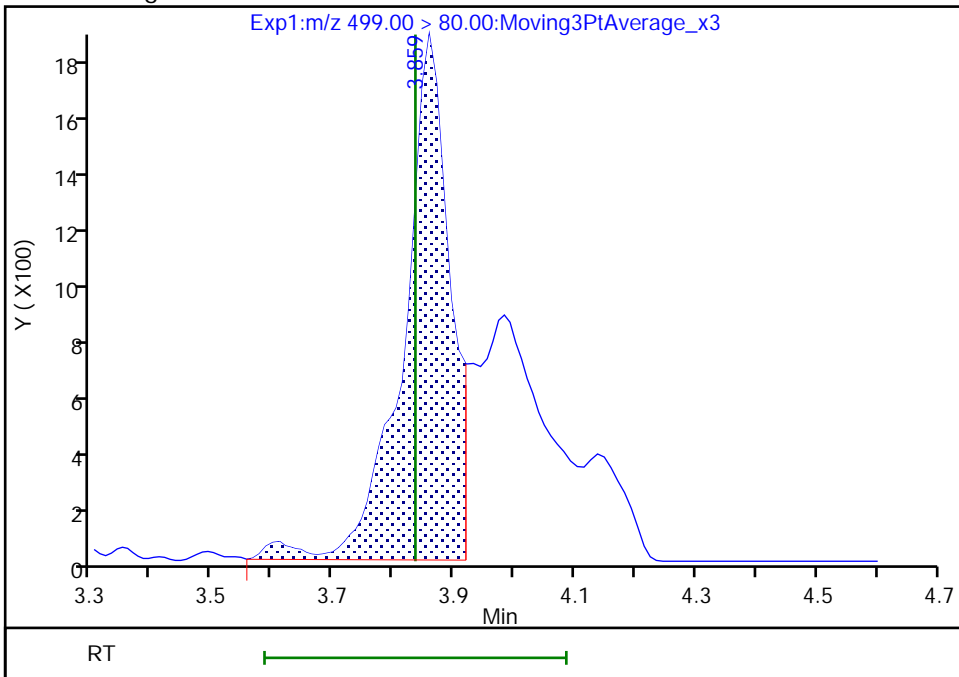
RT: 3.86
Area: 18775
Amount: 0.023647
Amount Units: ng/ml

Processing Integration Results



RT: 3.86
Area: 9967
Amount: 0.012553
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:28:54
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

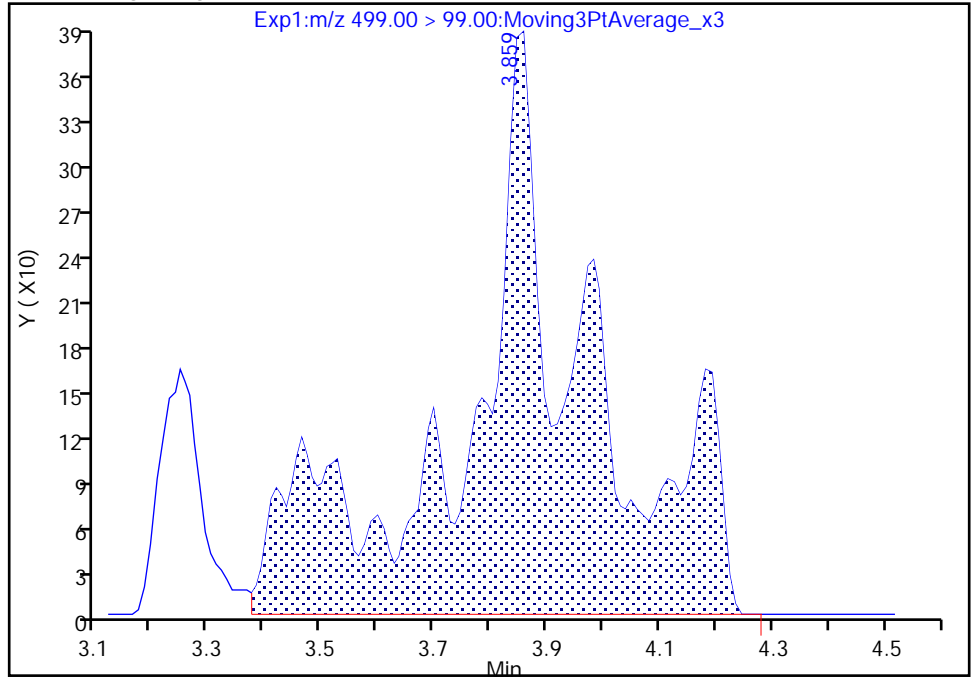
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

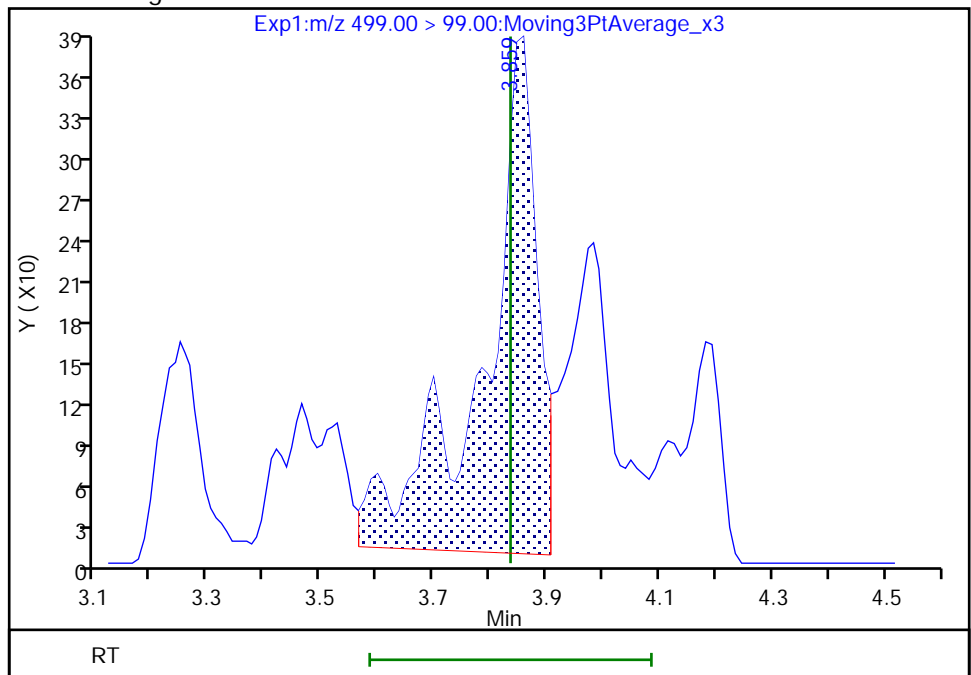
RT: 3.86
Area: 5807
Amount: 0.023647
Amount Units: ng/ml

Processing Integration Results



RT: 3.86
Area: 2505
Amount: 0.012553
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:29:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

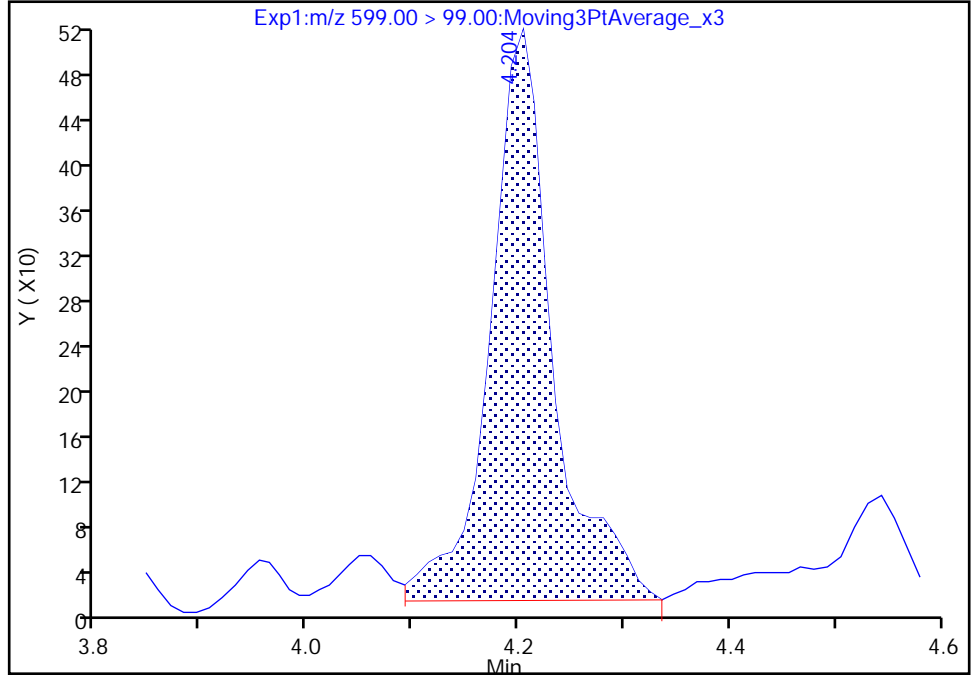
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

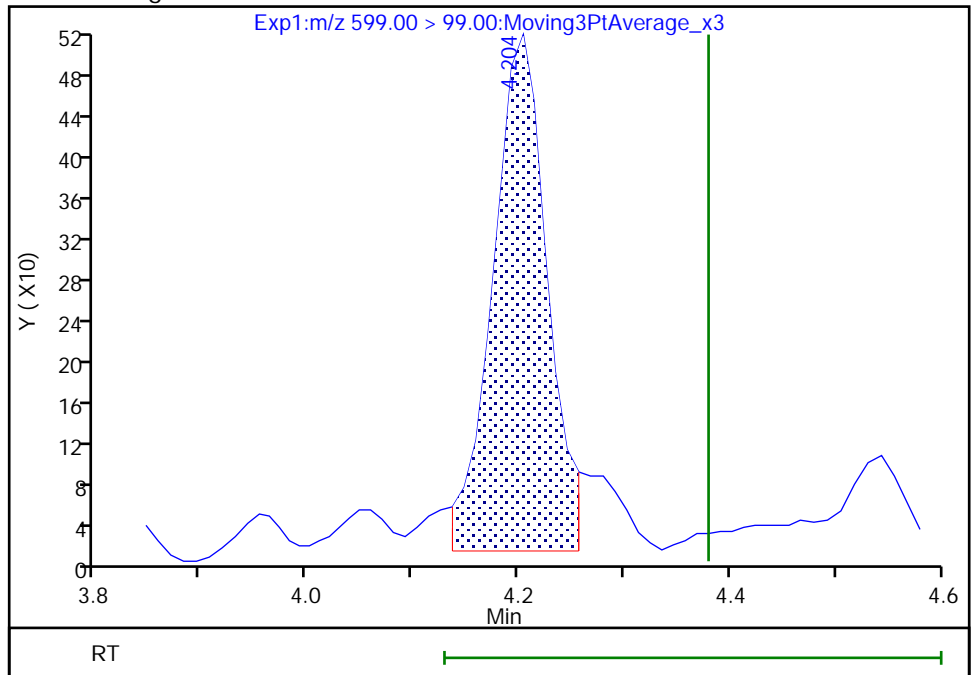
RT: 4.20
Area: 2069
Amount: 0.010660
Amount Units: ng/ml

Processing Integration Results



RT: 4.20
Area: 1782
Amount: 0.010660
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:30:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

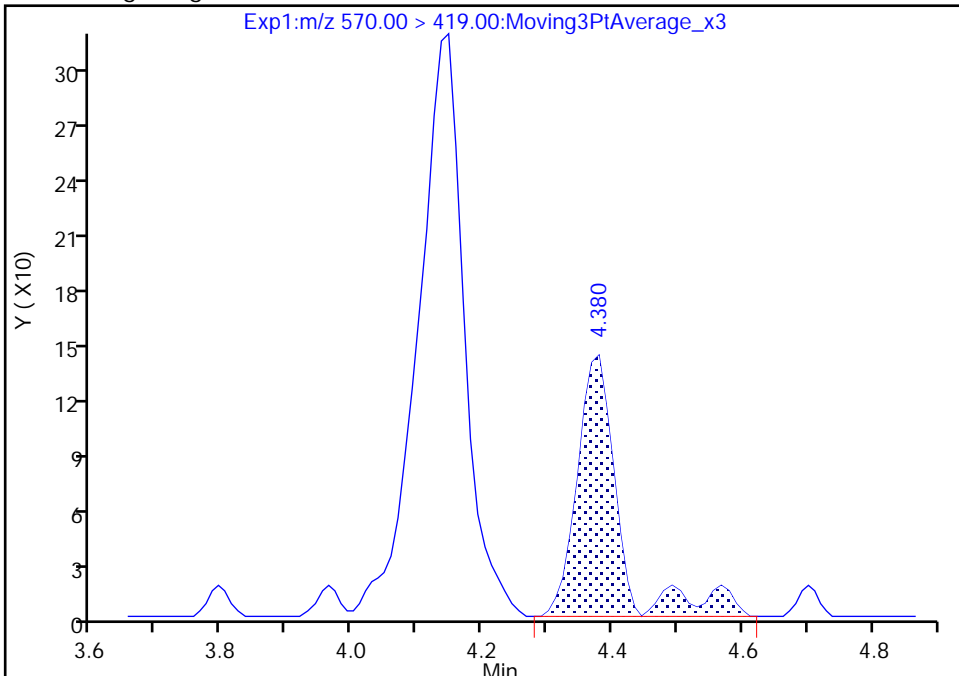
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

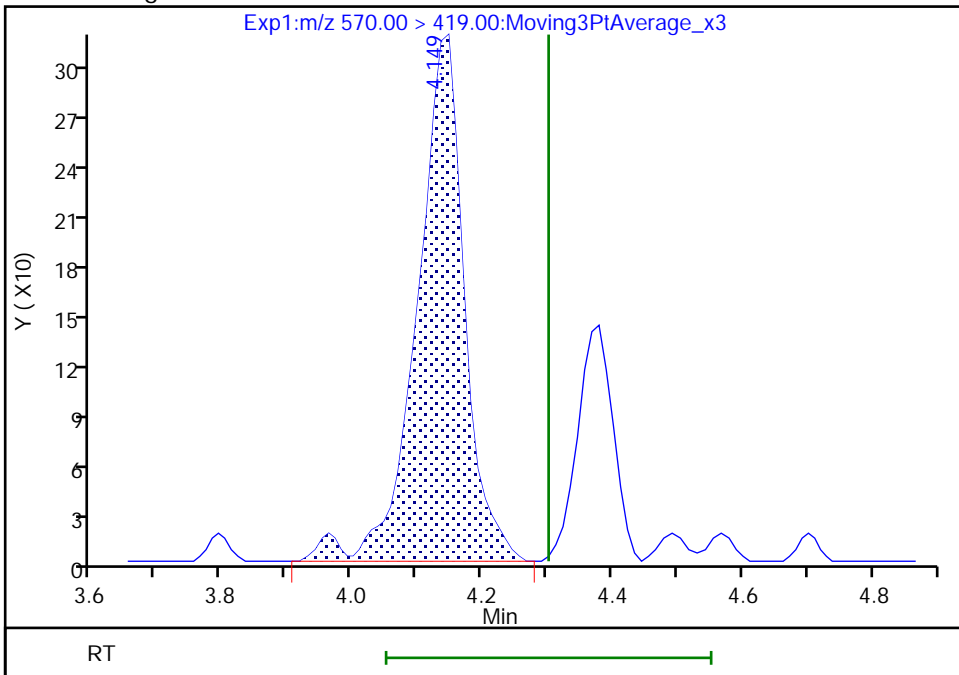
RT: 4.38
Area: 637
Amount: 0.008896
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1613
Amount: 0.022527
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:30:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

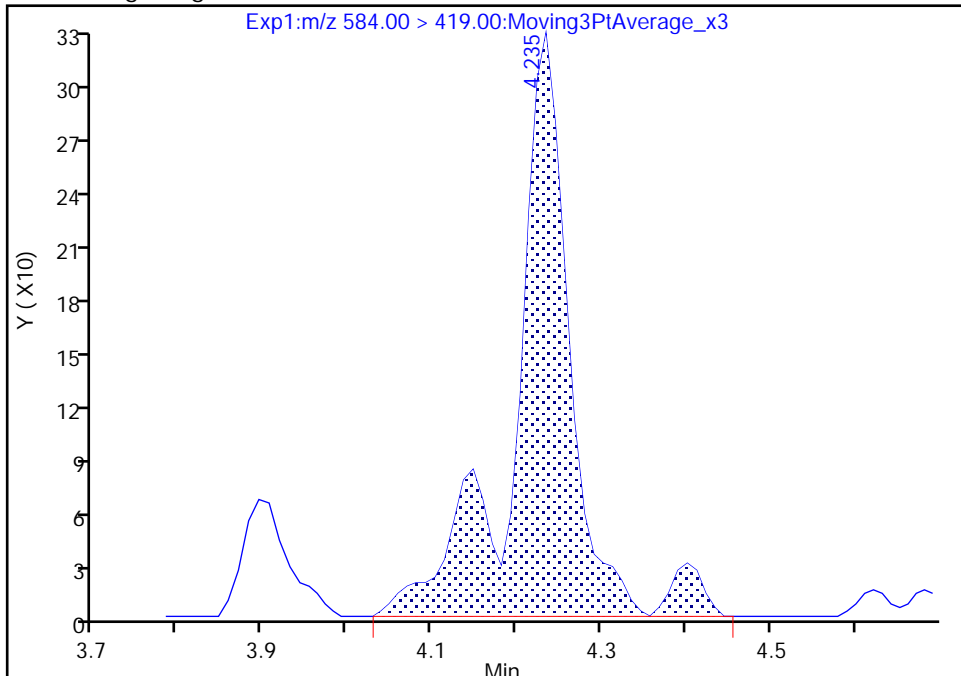
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

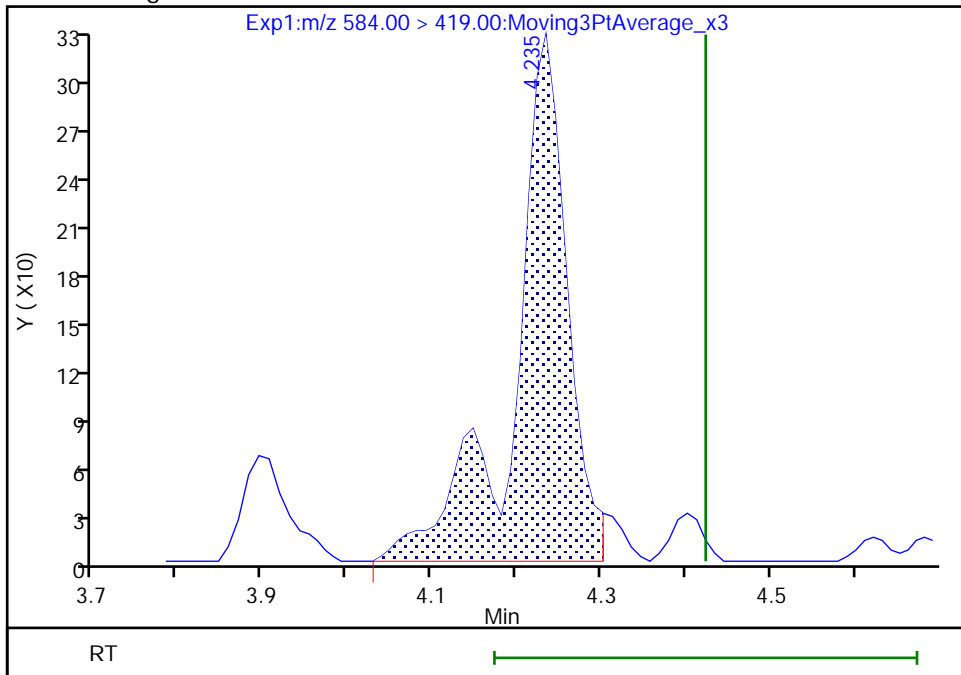
RT: 4.23
Area: 1564
Amount: 0.010230
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 1436
Amount: 0.008492
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:31:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

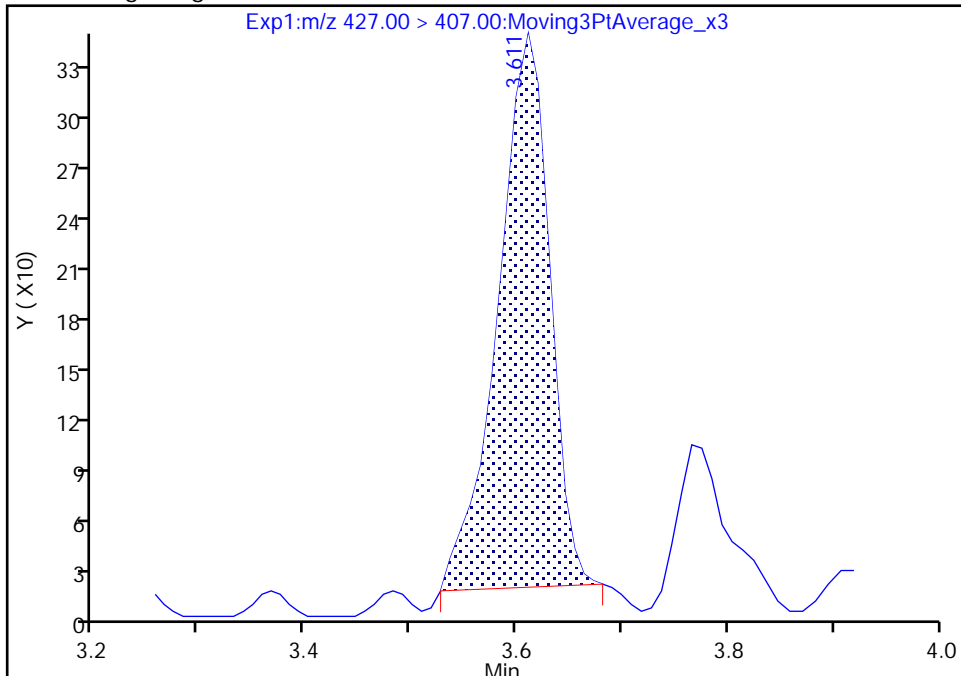
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

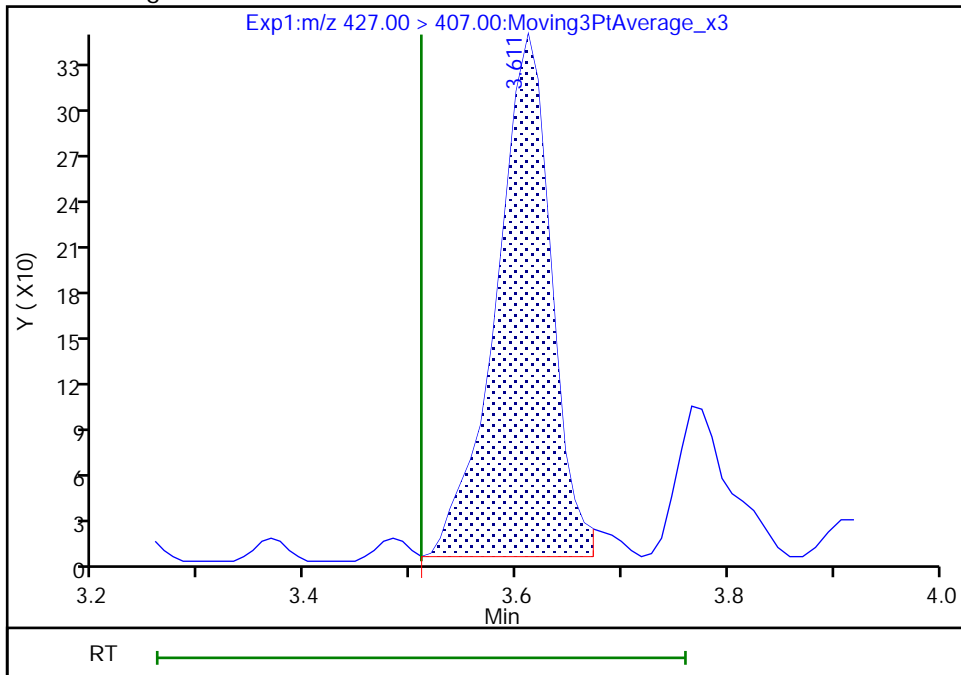
RT: 3.61
Area: 1105
Amount: 0.009780
Amount Units: ng/ml

Processing Integration Results



RT: 3.61
Area: 1229
Amount: 0.010877
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:28:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Euofins TestAmerica, Burlington

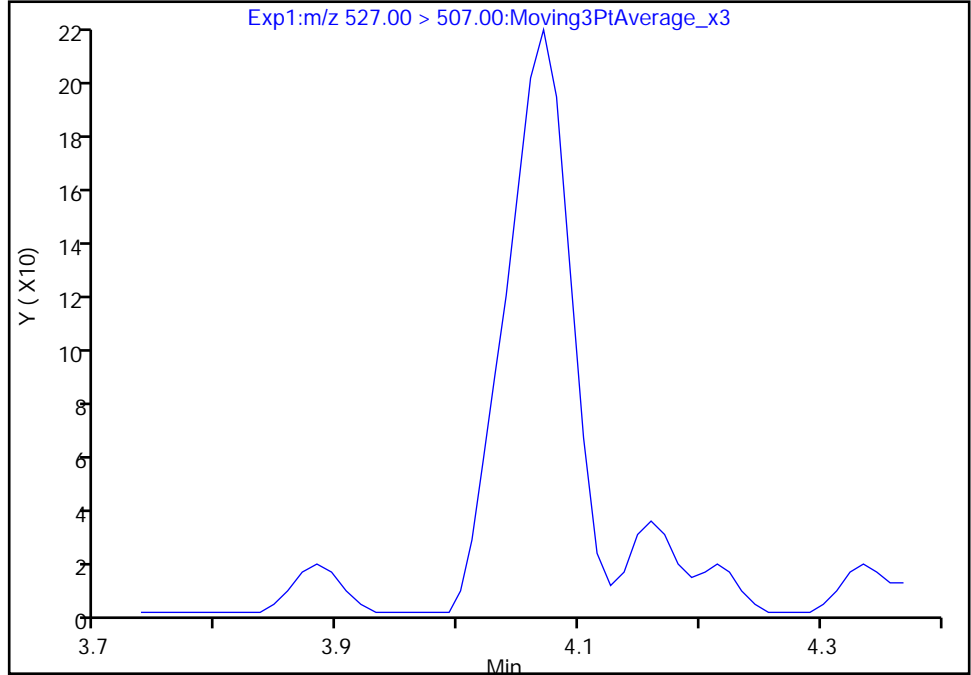
Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

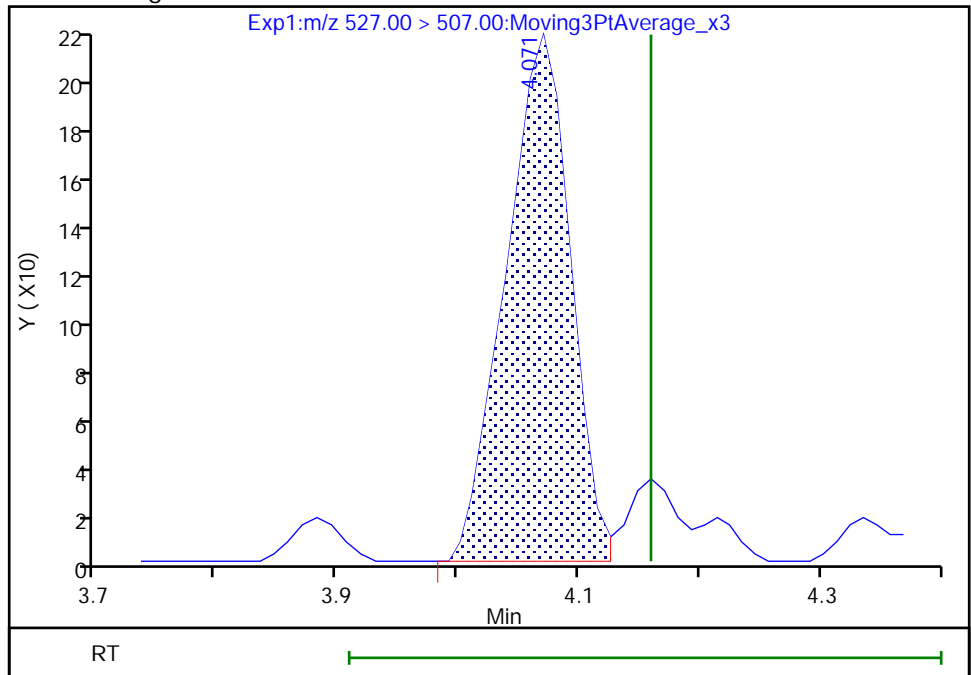
Not Detected
Expected RT: 4.16

Processing Integration Results



RT: 4.07
Area: 805
Amount: 0.007697
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:29:51
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 678 of 761

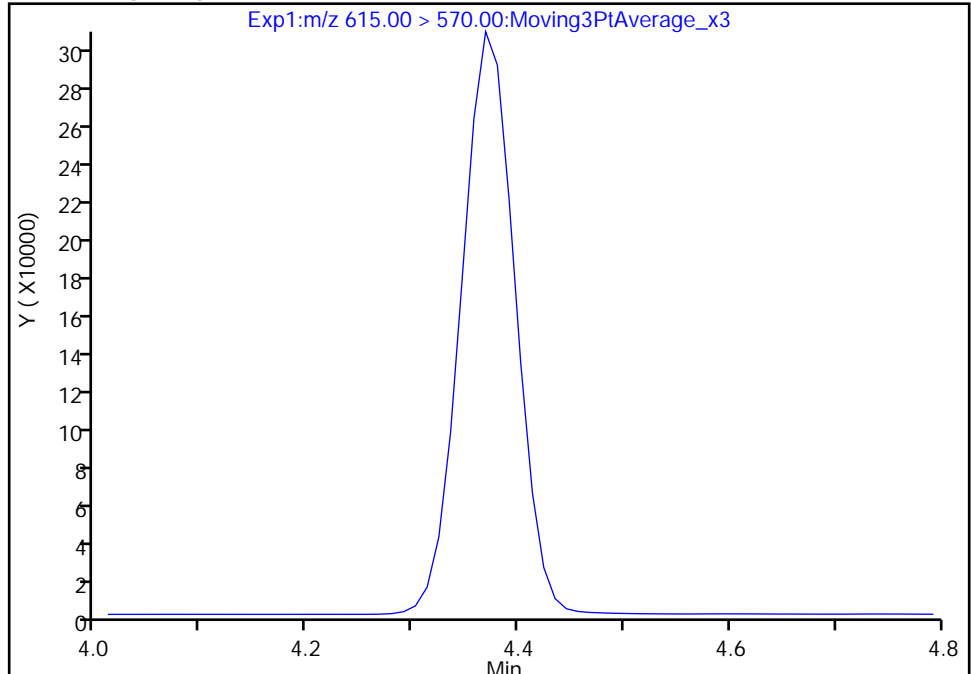
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 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

D 36 13C2 PFD_oA, CAS: STL00998
Signal: 1

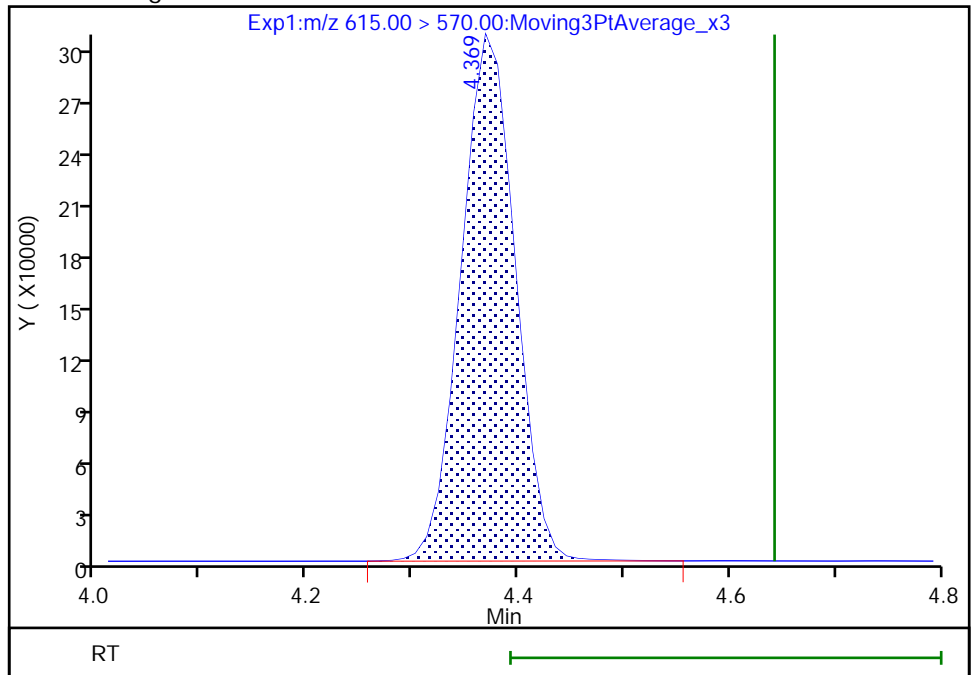
Not Detected
Expected RT: 4.64

Processing Integration Results



RT: 4.37
Area: 1082650
Amount: 1.429633
Amount Units: ng/ml

Manual Integration Results



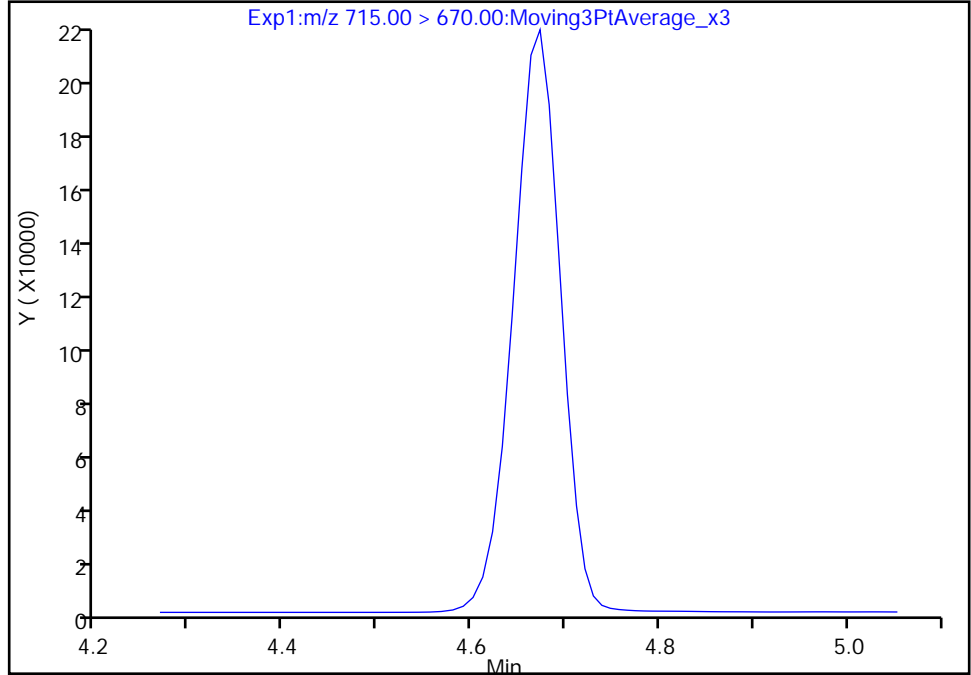
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 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

D 43 13C2 PFTeDA, CAS: STL02116
Signal: 1

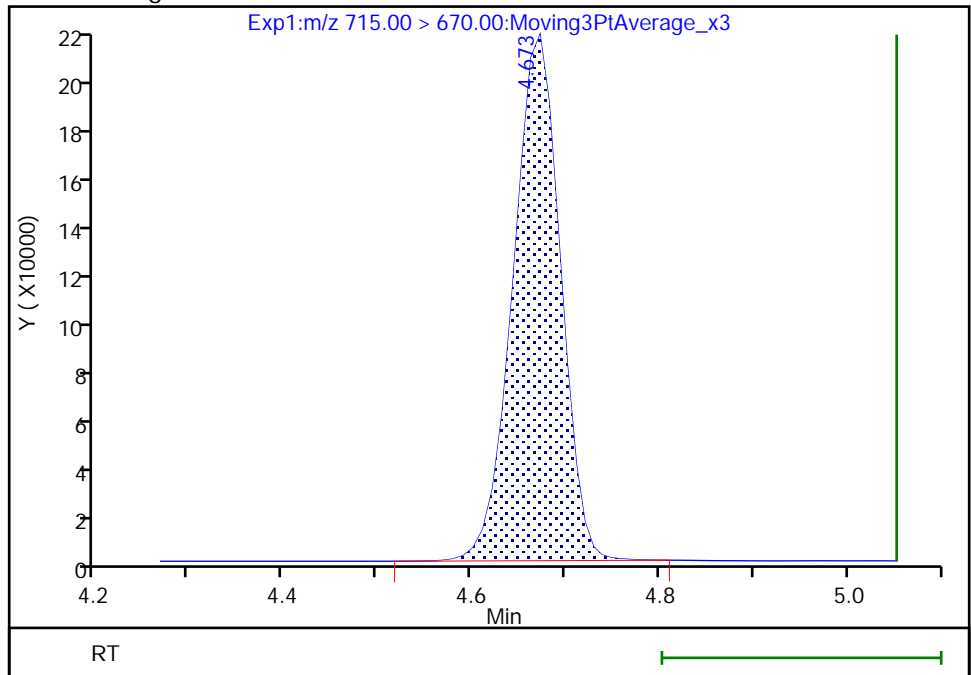
Not Detected
Expected RT: 5.05

Processing Integration Results



RT: 4.67
Area: 753134
Amount: 1.359293
Amount Units: ng/ml

Manual Integration Results



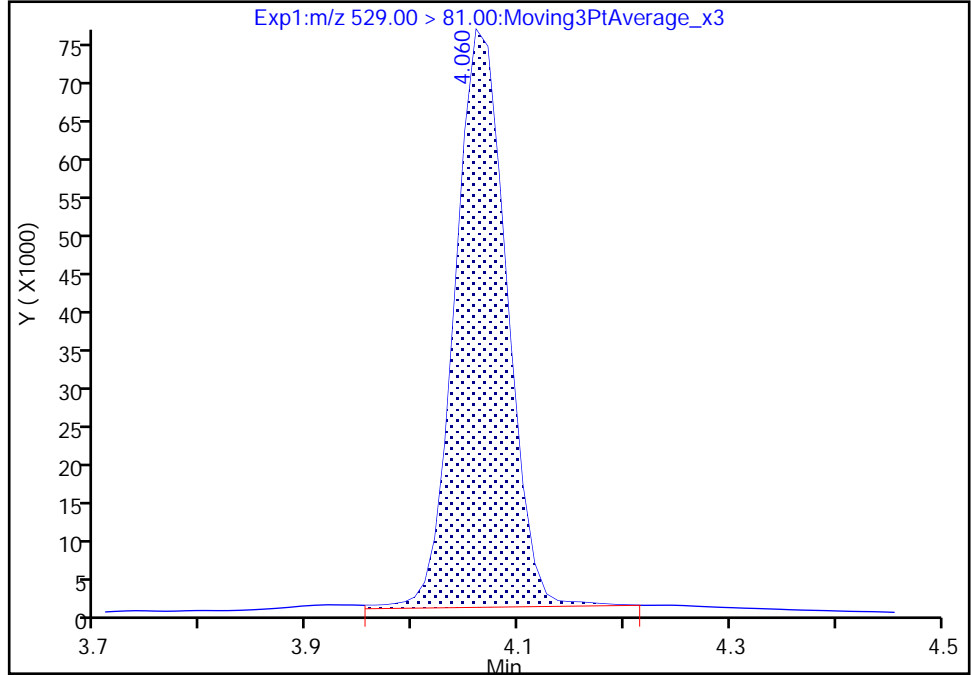
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 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

D 26 M2-8:2 FTS, CAS: STL02280
Signal: 1

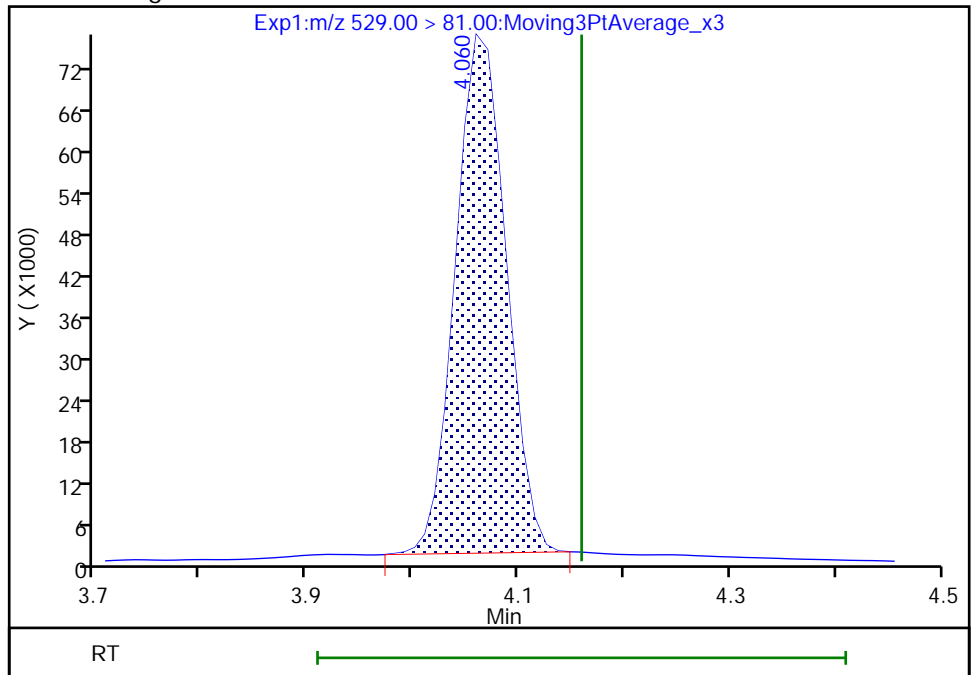
RT: 4.06
Area: 256509
Amount: 1.915305
Amount Units: ng/ml

Processing Integration Results



RT: 4.06
Area: 249621
Amount: 1.863873
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:30:03
Audit Action: Manually Integrated

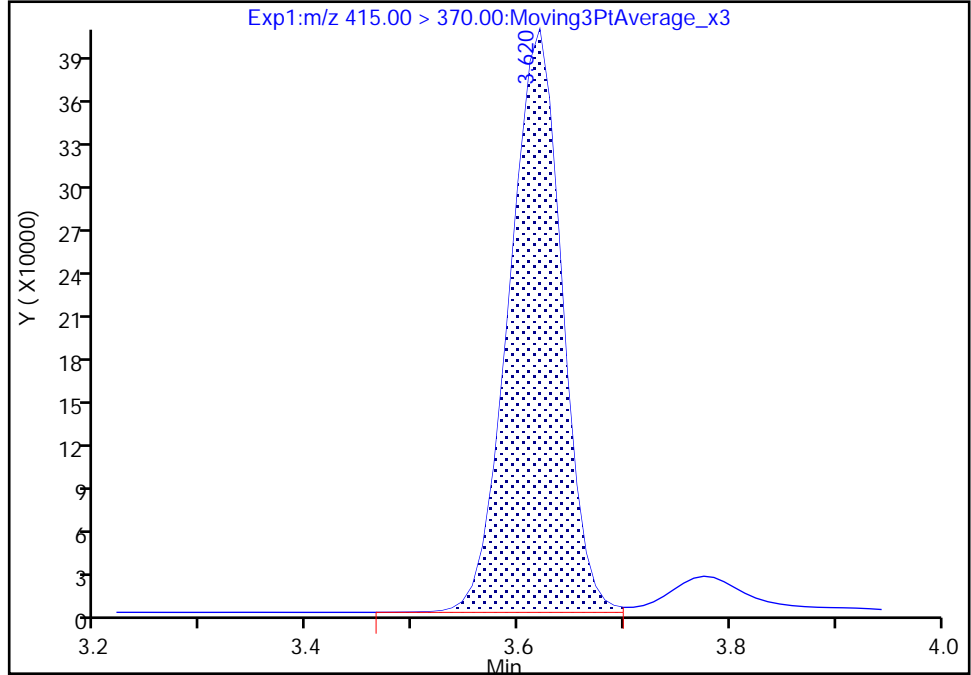
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 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

* 62 13C2 PFOA, CAS: STL00623
Signal: 1

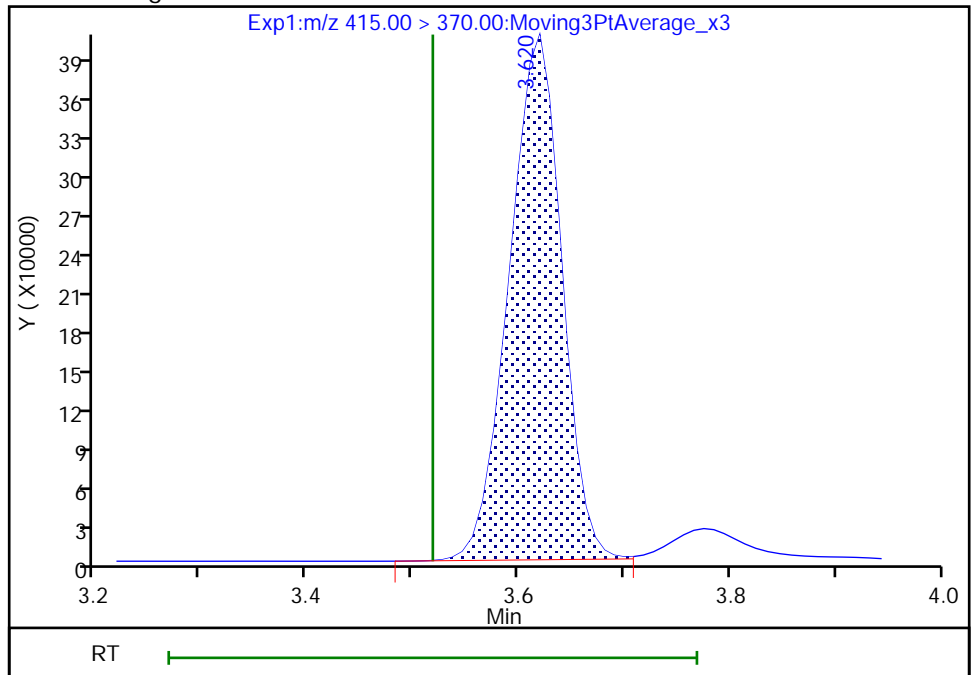
RT: 3.62
Area: 1405371
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.62
Area: 1394610
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 20-May-2021 18:22:08
Audit Action: Manually Integrated

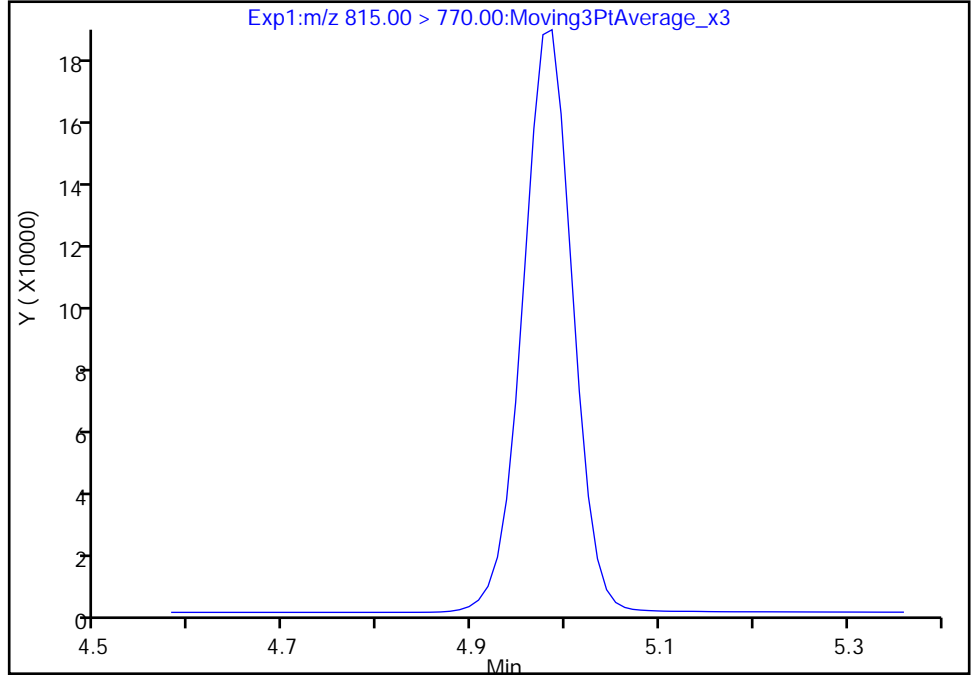
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL08.d
Injection Date: 20-May-2021 17:45:20 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

D 44 13C2 PFHxDA, CAS: STL02115
Signal: 1

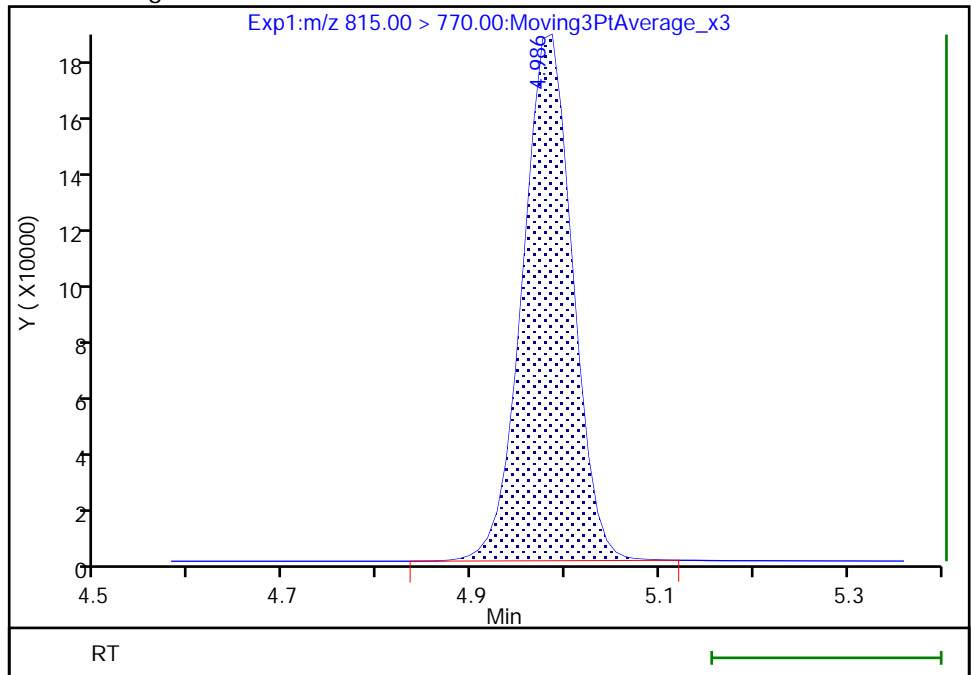
Not Detected
Expected RT: 5.41

Processing Integration Results



RT: 4.99
Area: 693626
Amount: 1.278684
Amount Units: ng/ml

Manual Integration Results



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-167147/2-A
 Matrix: Water Lab File ID: PA210521C03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 250 (mL) Date Analyzed: 05/21/2021 22:53
 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.: 167173 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	41.7		5.0	0.89
2706-90-3	Perfluoropentanoic acid (PFPeA)	42.3		2.0	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	43.5		2.0	0.45
375-85-9	Perfluoroheptanoic acid (PFHpA)	42.1		2.0	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	42.7		2.0	0.42
375-95-1	Perfluorononanoic acid (PFNA)	40.5		2.0	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	38.9		2.0	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	45.7		2.0	0.34
307-55-1	Perfluorododecanoic acid (PFDoA)	43.8		2.0	0.39
72629-94-8	Perfluorotridecanoic acid (PFTriA)	41.4		2.0	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	41.9		2.0	0.63
375-73-5	Perfluorobutanesulfonic acid (PFBS)	38.7		2.0	0.25
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	38.2		2.0	0.30
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	39.8		2.0	0.23
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	40.5		2.0	0.29
335-77-3	Perfluorodecanesulfonic acid (PFDS)	37.4		2.0	0.31
754-91-6	Perfluorooctanesulfonamide (PFOSA)	41.3		2.0	0.58
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	39.7		5.0	0.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	39.0		5.0	0.74
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	41.8		5.0	1.1
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.9		2.0	0.39

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-167147/2-A
 Matrix: Water Lab File ID: PA210521C03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 250 (mL) Date Analyzed: 05/21/2021 22:53
 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.: 167173 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	96		50-150
STL01892	13C4 PFHpA	97		50-150
STL00990	13C4 PFOA	96		50-150
STL00991	13C4 PFOS	94		50-150
STL00995	13C5 PFNA	99		50-150
STL00992	13C4 PFBA	100		25-150
STL00993	13C2 PFHxA	99		50-150
STL00996	13C2 PFDA	102		50-150
STL00997	13C2 PFUnA	89		50-150
STL00998	13C2 PFDoA	82		50-150
STL01056	13C8 FOSA	68		25-150
STL01893	13C5 PFPeA	100		25-150
STL02116	13C2 PFTeDA	80		50-150
STL02118	d3-NMeFOSAA	97		50-150
STL02117	d5-NEtFOSAA	94		50-150
STL02279	M2-6:2 FTS	96		25-150
STL02280	M2-8:2 FTS	105		25-150
STL02337	13C3 PFBS	93		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
 Lims ID: LCS 200-167147/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-May-2021 22:53:34 ALS Bottle#: 30 Worklist Smp#: 3
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-167147/2-A
 Misc. Info.: 200-0046090-003 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 09:02:19

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	2.091	2.091	0.0	0.596	1584963	1.25	99.7	10566	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.091	2.100	-0.009	1.000	1236980	1.04		104	240	M
D 3 13C5 PFPeA	267.90 > 223.00	2.413	2.426	-0.013	0.687	1151908	1.25	99.7	2987	
4 Perfluoropentanoic acid	262.90 > 219.00	2.413	2.426	-0.013	1.000	985264	1.06	106	114	
D 47 13C3 PFBS	301.90 > 80.00	2.439	2.439	0.0	0.695	1249316	1.08	93.1	453138	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.439	2.439	0.0	1.000	1070480	0.9668	Target=2.19	109	1719	M
298.90 > 99.00	2.439	2.439	0.0	1.000	476539		2.25(1.09-3.28)		344	
D 60 M2-4:2 FTS	329.00 > 81.00	2.746	2.746	0.0	0.782	108079	1.21	103	183	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.746	2.746	0.0	1.000	157027	0.9732		104	2228	M
D 7 13C2 PFHxA	315.00 > 270.00	2.782	2.782	0.0	0.793	1242924	1.24	99.1	3419	
6 Perfluorohexanoic acid	313.00 > 269.00	2.782	2.782	0.0	1.000	1093966	1.09	Target=12.12	109	321
313.00 > 119.00	2.782	2.782	0.0	1.000	86222		12.69(6.06-18.18)		183	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.782	2.795	-0.012	0.885	1044374	1.00	Target=3.58	107	1961
349.00 > 99.00	2.782	2.795	-0.012	0.885	302667		3.45(1.79-5.37)		463	
67 Perfluoro(2-propoxypropanoic) ac	329.10 > 285.00	2.892	2.892	0.0	1.000	176579	0.9182	91.8	80.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										M
332.10 > 287.00	2.892	2.902	-0.010	0.824	145281	1.31		105	979	M
D 11 18O2 PFHxS										M
403.00 > 84.00	3.143	3.154	-0.011	0.895	1012435	1.13		95.5	2104	M
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.154	3.154	0.0	1.003	905253	0.9538	Target=4.23	105	1605	M
399.00 > 99.00	3.143	3.154	-0.011	1.000	217635		4.16(2.12-6.35)		311	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.154	0.0	0.898	1211988	1.21		96.7	3199	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.154	3.164	-0.010	1.000	1029566	1.05	Target=3.49	105	471	
363.00 > 169.00	3.154	3.164	-0.010	1.000	292173		3.52(1.75-5.24)		660	
77 DONA										M
377.00 > 251.00	3.186	3.196	-0.010	0.831	1930792	1.01	Target=2.43	107	2496	M
377.00 > 85.00	3.186	3.196	-0.010	0.831	807147		2.39(1.21-3.64)		1167	M
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.501	3.510	-0.009	0.913	750894	0.99	Target=6.21	104	2163	
449.00 > 99.00	3.501	3.510	-0.009	0.913	125260		5.99(3.10-9.31)		524	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.501	3.510	-0.009	0.997	134706	1.13		95.5	529	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.501	3.510	-0.009	1.000	106259	1.04		110	1540	M
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.003	1214059	1.20		95.7	2215	
* 62 13C2 PFOA										M
415.00 > 370.00	3.510	3.519	-0.009		1268035	1.25			202	M
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.510	3.519	-0.009	0.997	1064951	1.07	Target=2.53	107	492	
413.00 > 169.00	3.510	3.519	-0.009	0.997	438937		2.43(1.27-3.80)		1113	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.093	726715	1.12		94.0	2701	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.836	3.836	0.0	1.000	662415	1.01	Target=6.09	109	407	M
499.00 > 99.00	3.836	3.836	0.0	1.000	106831		6.20(3.04-9.13)		246	M
20 Perfluorononanoic acid										M
463.00 > 419.00	3.847	3.858	-0.011	1.000	904436	1.01	Target=6.34	101	405	
463.00 > 169.00	3.847	3.858	-0.011	1.000	148302		6.10(3.17-9.51)		1135	M
D 19 13C5 PFNA										
468.00 > 423.00	3.847	3.858	-0.011	1.096	1158206	1.24		99.0	3126	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.993	4.002	-0.009	1.041	627428	1.00		107	1878	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	501002	1.03	Target=2.95	107	3074	
549.00 > 99.00	4.126	4.126	0.0	1.076	166722		3.01(1.47-4.42)		638	
D 23 13C2 PFDA										
515.00 > 470.00	4.149	4.160	-0.011	1.182	1050487	1.28		102	2807	

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	4.160	-0.011	1.000	854976	0.9722	Target=7.79	97.2	786	
513.00 > 169.00	4.149	4.160	-0.011	1.000	113730		7.52(3.90-11.69)		621	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.171	-0.011	1.185	153370	1.26		105	811	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.171	-0.011	1.000	62568	0.9737		102	479	M
D 21 13C8 FOSA										
506.00 > 78.00	4.215	4.225	-0.010	1.201	987848	0.8536		68.3	2592	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.225	0.0	1.002	797771	1.03		103	2249	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.291	4.302	-0.011	1.223	67500	1.22		97.3	229	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.003	47142	0.99		99.3	175	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.391	0.0	1.145	359028	0.9355	Target=2.87	97.0	2530	M
599.00 > 99.00	4.380	4.391	-0.011	1.142	116346		3.09(1.44-4.31)		745	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.413	4.424	-0.011	1.000	659883	1.14	Target=7.94	114	1014	
563.00 > 169.00	4.413	4.424	-0.011	1.000	82063		8.04(3.97-11.91)		953	
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.424	-0.011	1.257	730500	1.11		88.8	3061	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.434	-0.010	1.260	65743	1.18		94.4	968	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.435	4.434	0.001	1.002	45096	0.9758		97.6	282	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.505	4.518	-0.013	1.174	469196	0.8370		88.9	1922	
D 36 13C2 PFDaA										
615.00 > 570.00	4.642	4.653	-0.011	1.323	708972	1.03		82.4	3488	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.642	4.653	-0.011	1.000	622577	1.09	Target=5.94	109	304	
613.00 > 169.00	4.642	4.653	-0.011	1.000	103713		6.00(2.97-8.92)		1480	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.663	4.673	-0.010	1.121	29598	0.8978		93.1	1038	
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.822	4.834	-0.012	1.257	117831	0.8999	Target=0.44	93.0	1624	M
699.00 > 99.00	4.822	4.834	-0.012	1.257	239451		0.49(0.22-0.66)		2238	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.856	4.867	-0.011	1.046	474722	1.04	Target=3.97	104	276	
663.00 > 169.00	4.856	4.867	-0.011	1.046	120819		3.93(1.99-5.96)		1300	M
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.063	-0.010	1.439	502849	1.00		79.9	4988	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.063	-0.010	1.000	86240	1.05	Target=1.01	105	1607	M
713.00 > 219.00	5.043	5.063	-0.020	0.998	83860		1.03(0.51-1.52)		2277	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	5.406	5.416	-0.010	1.540	546812	1.11		88.7	2541	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.406	5.416	-0.010	1.000	423752	1.00	Target=3.56	100	397	
813.00 > 169.00	5.406	5.416	-0.010	1.000	121900		3.48(1.78-5.34)		1606	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.738	5.756	-0.018	1.062	365277	0.9775	Target=3.39	97.7	387	M
913.00 > 169.00	5.729	5.756	-0.027	1.060	114492		3.19(1.70-5.09)		1112	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d

Injection Date: 21-May-2021 22:53:34

Instrument ID: LC812

Lims ID: LCS 200-167147/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 30

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

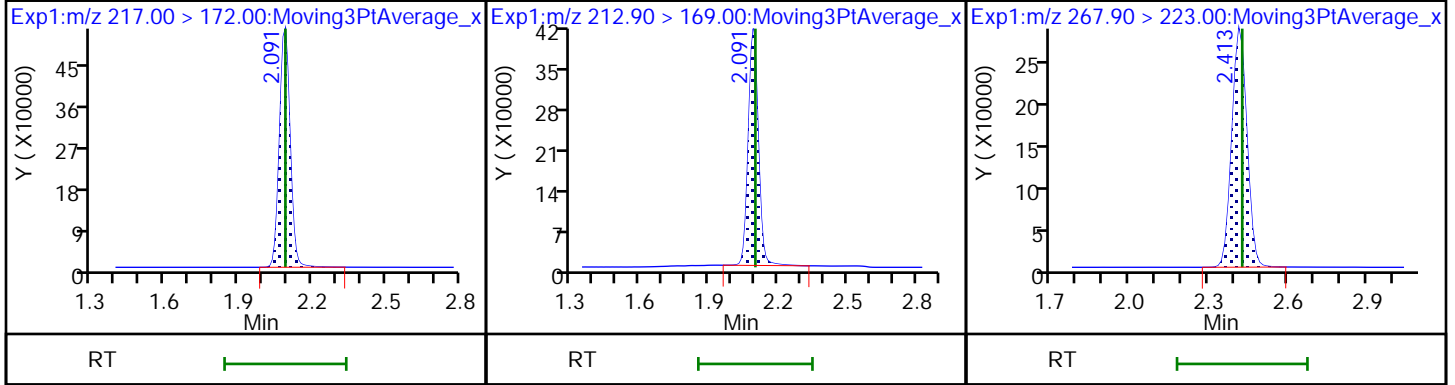
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

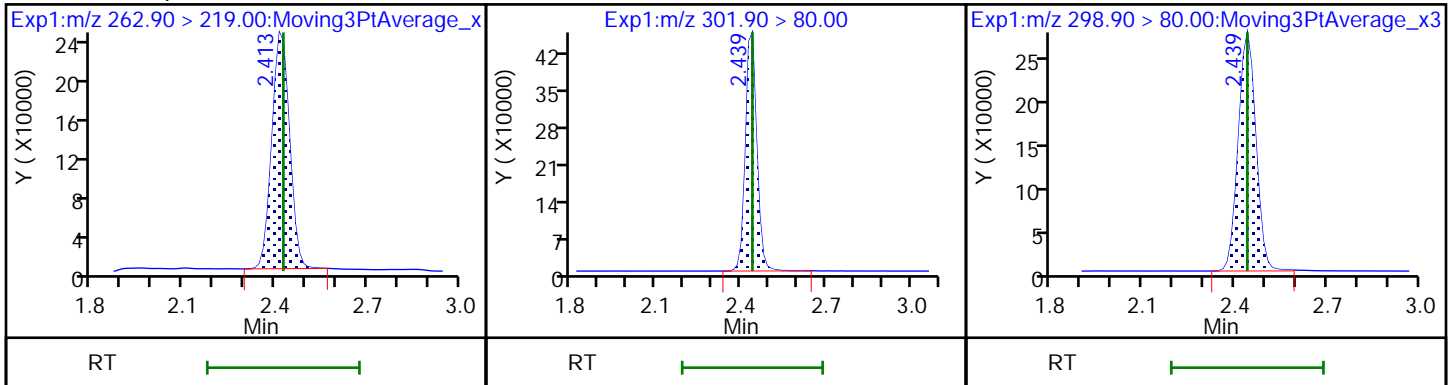
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

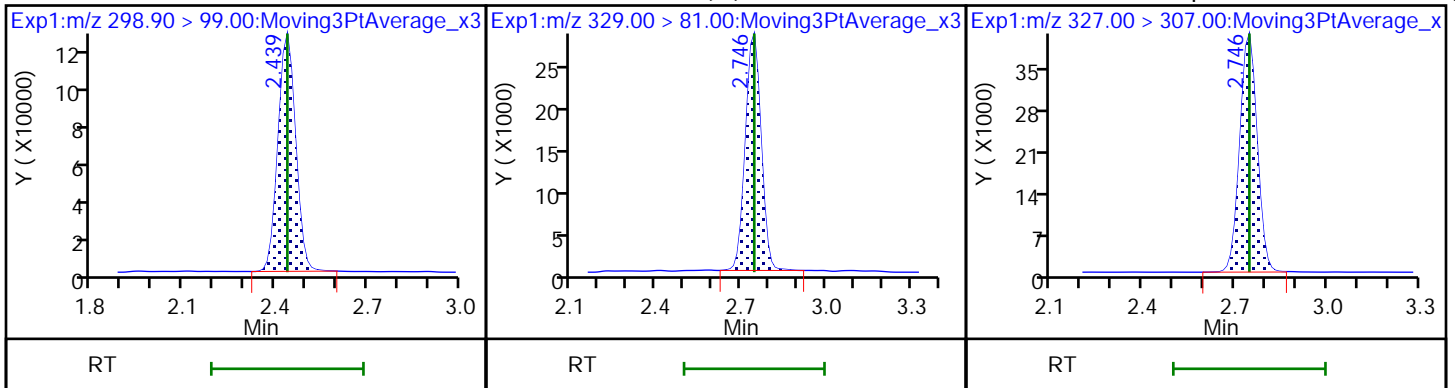
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

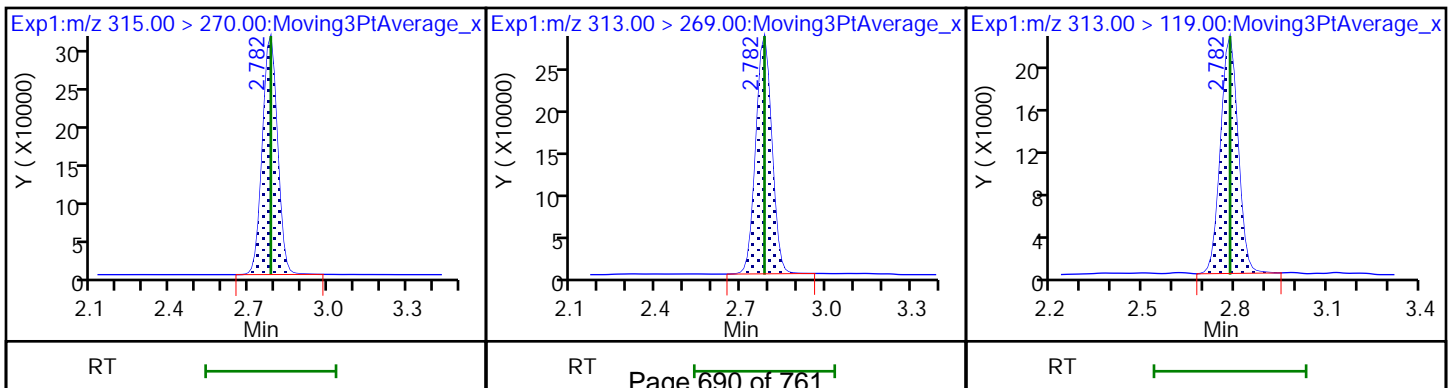
61 1H,1H,2H,2H-perfluorohexanesulfo (M)

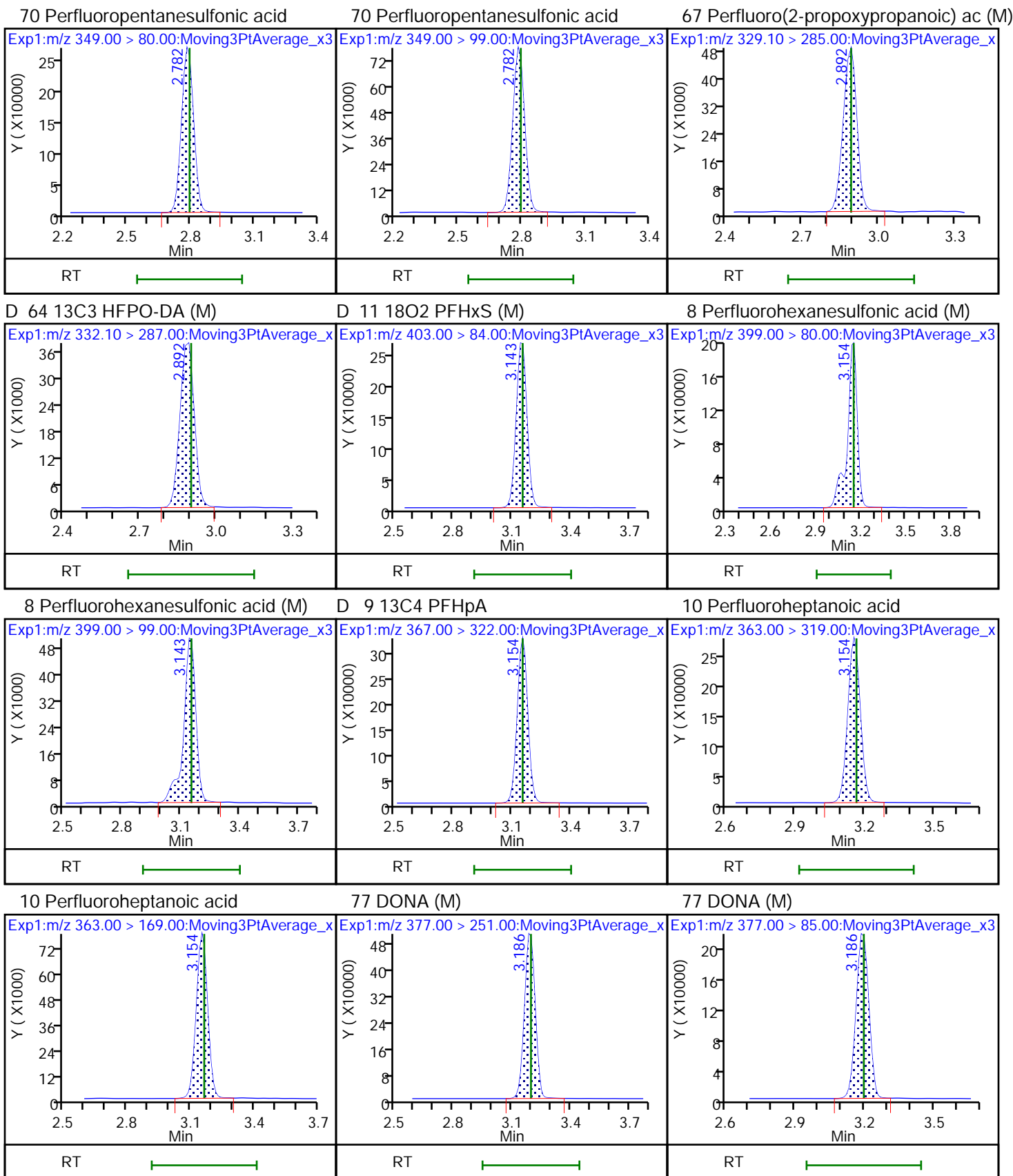


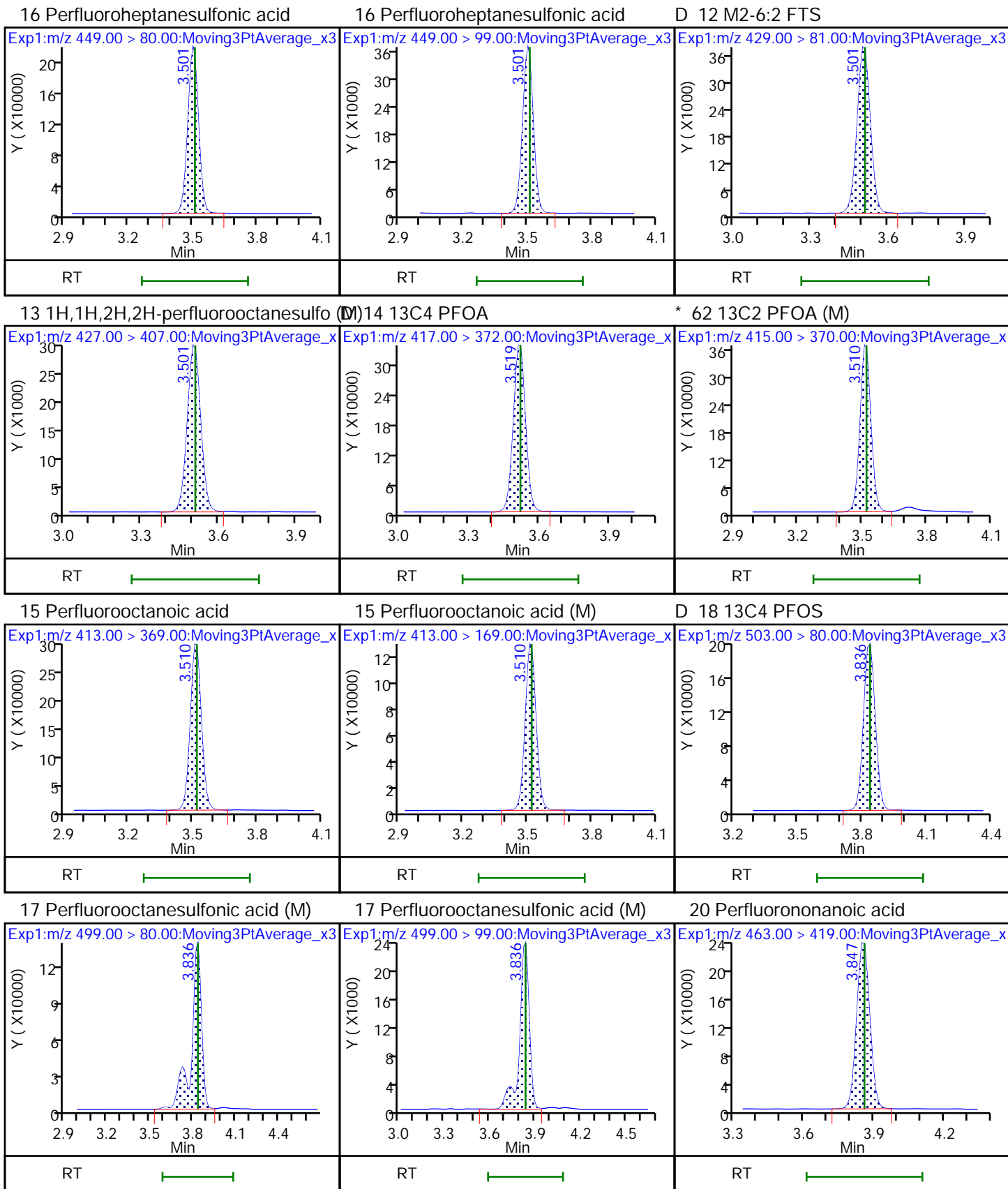
D 7 13C2 PFHxA

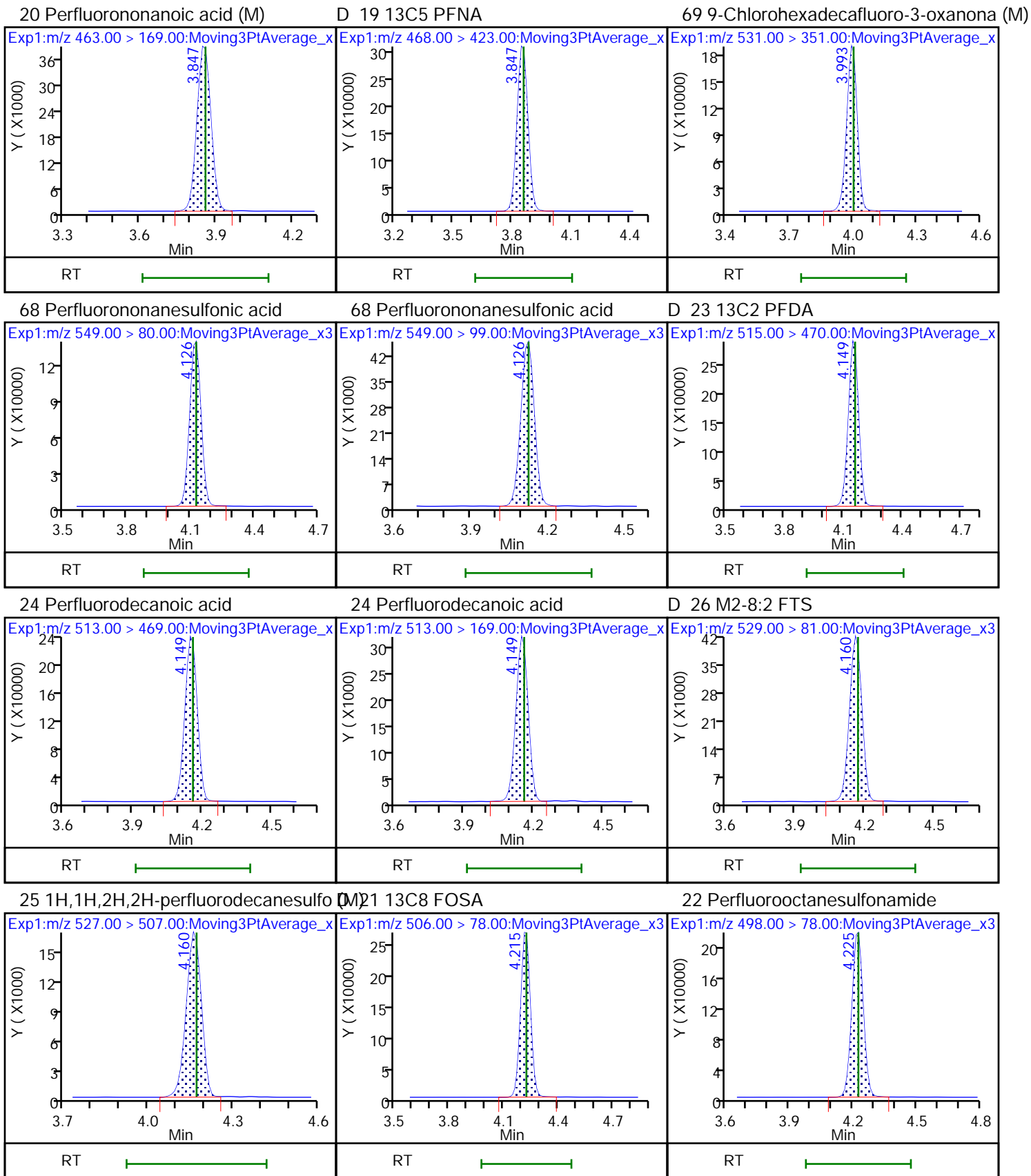
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





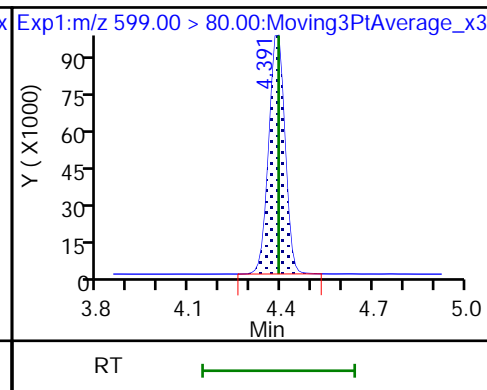
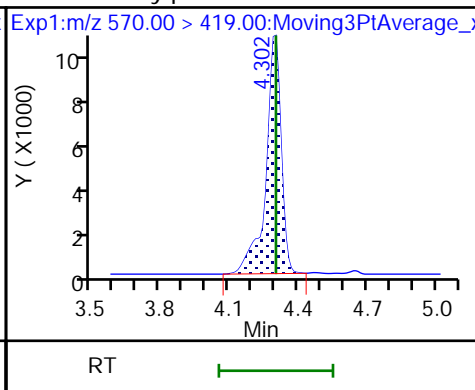
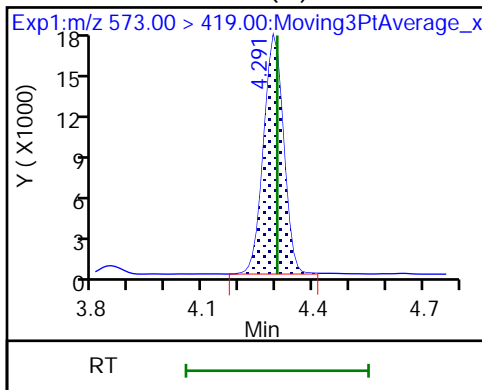




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami

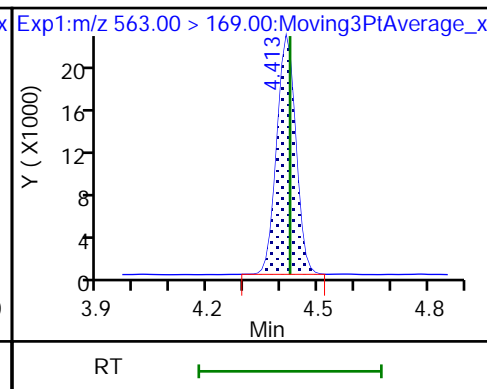
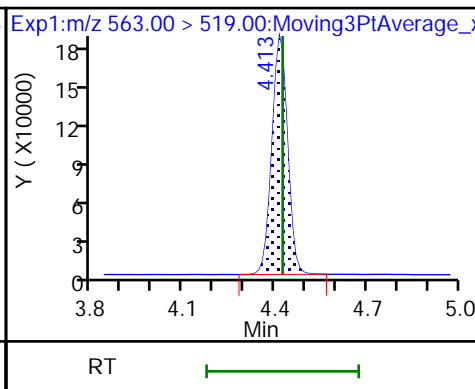
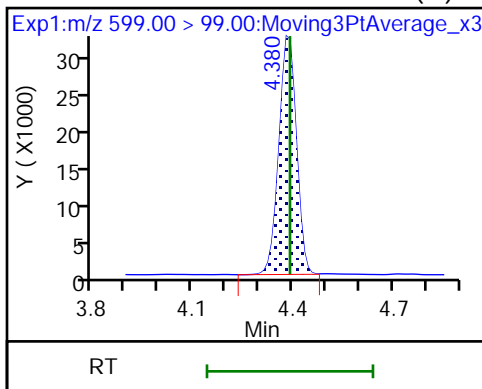
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

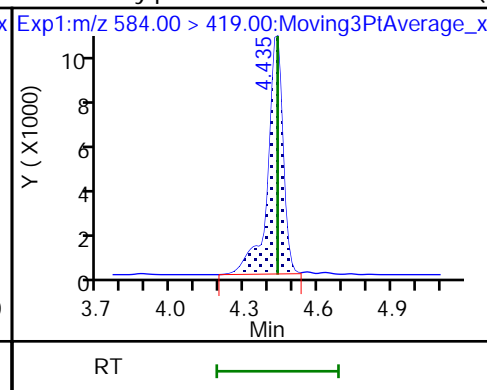
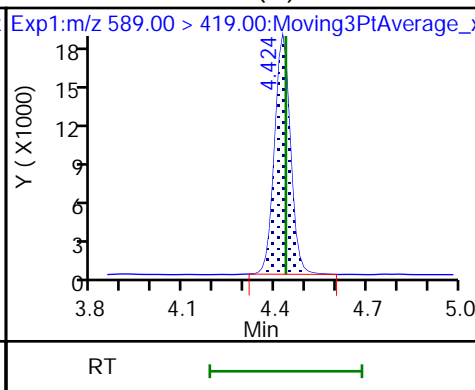
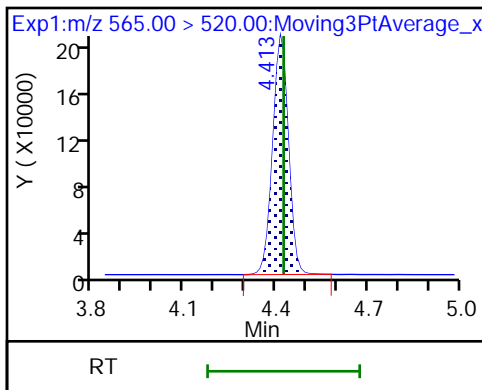
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA (M)

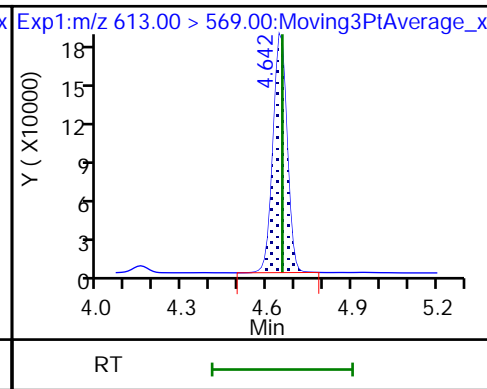
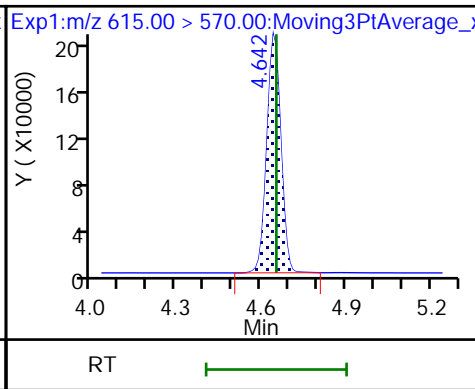
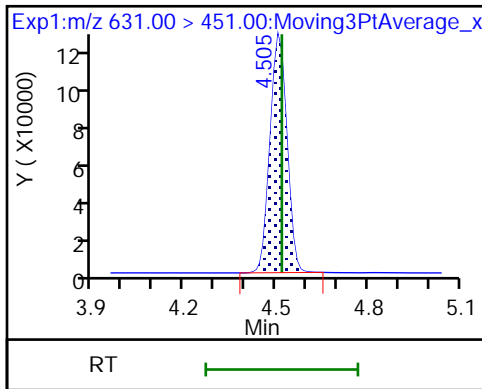
33 N-ethylperfluorooctanesulfonamid (M)

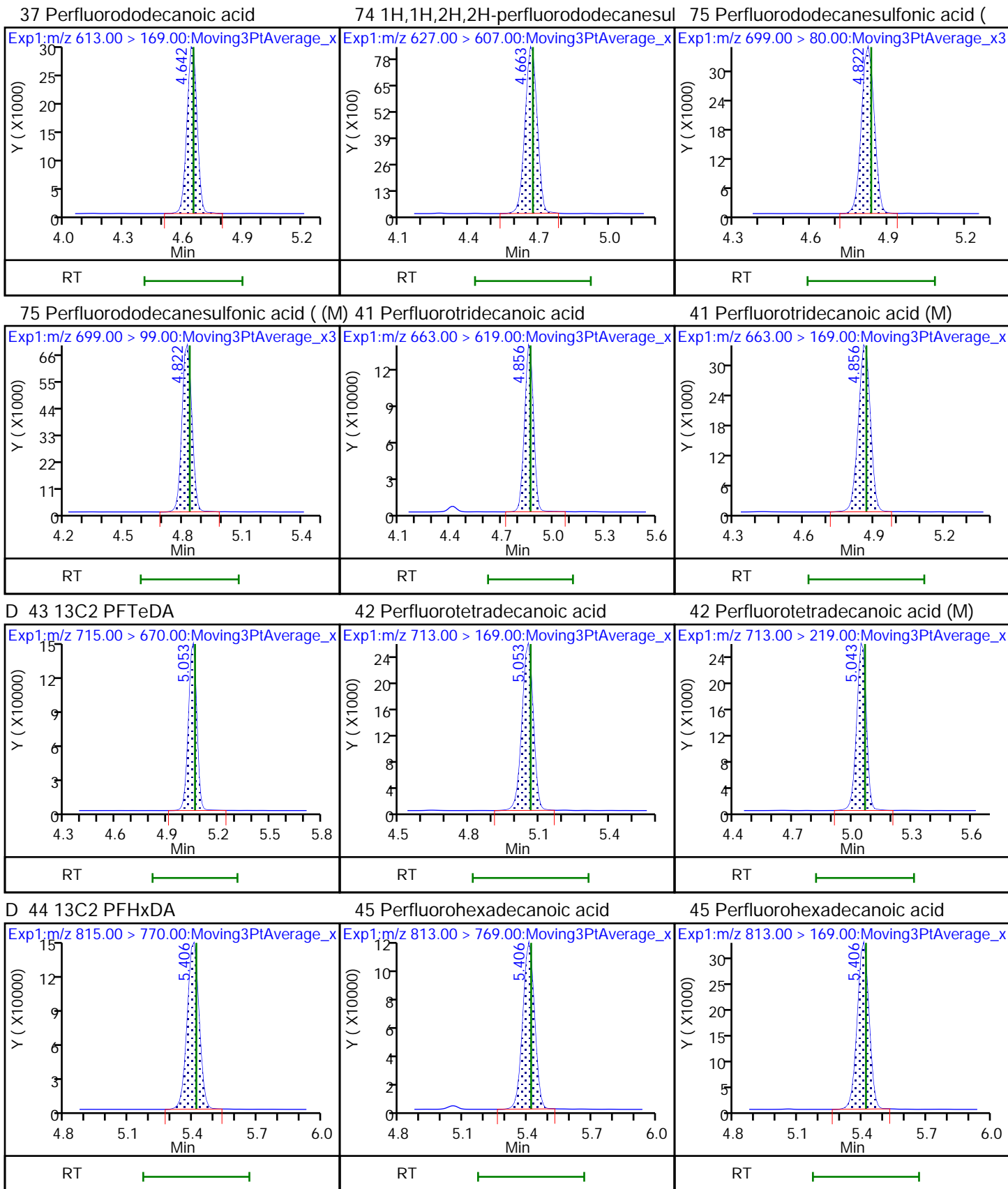


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDaA

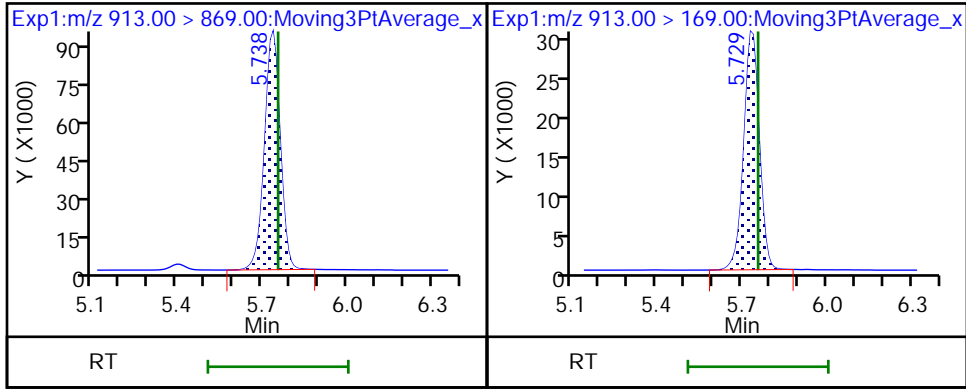
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

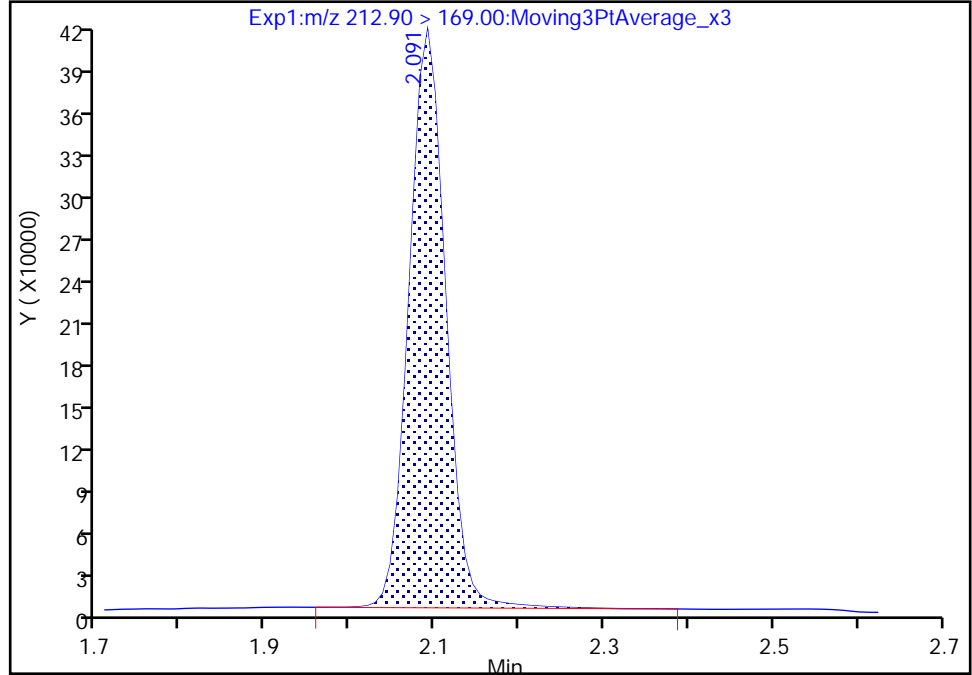
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

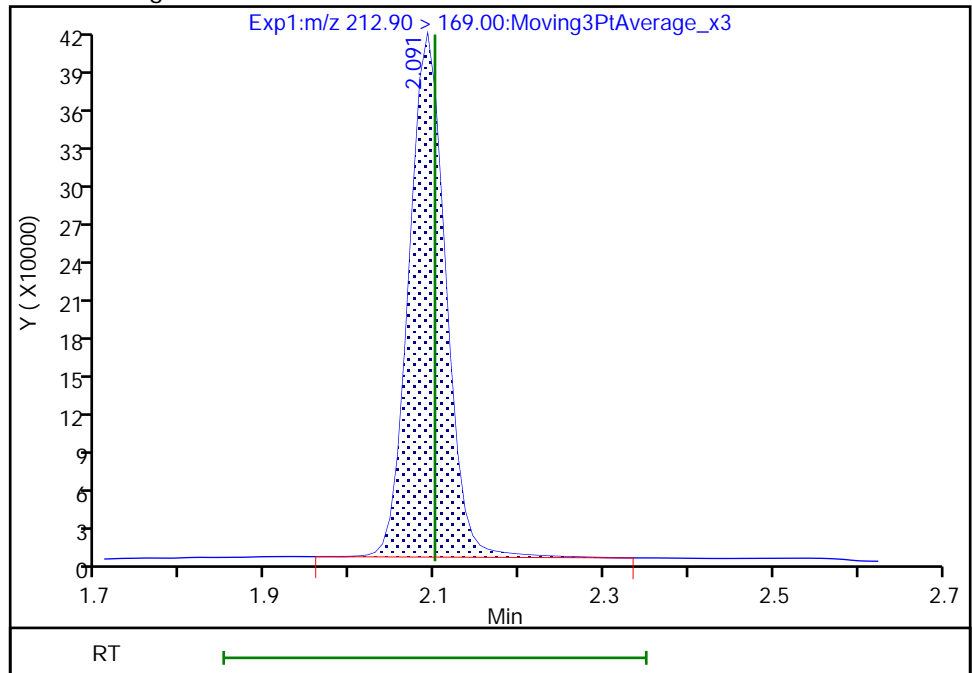
RT: 2.09
Area: 1237617
Amount: 1.044029
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1236980
Amount: 1.043492
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:57:13
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

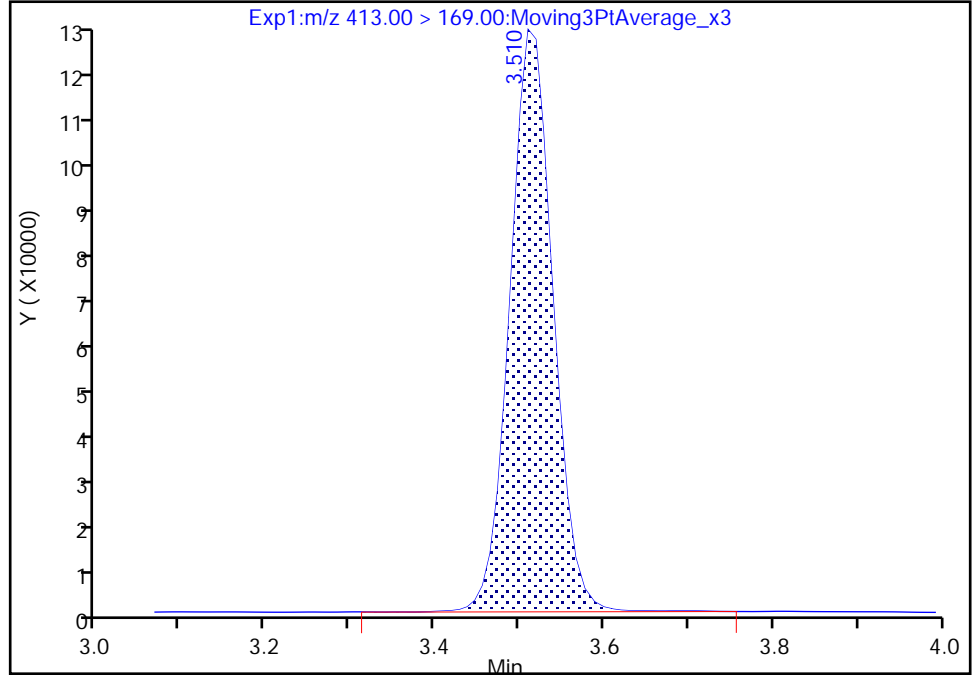
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

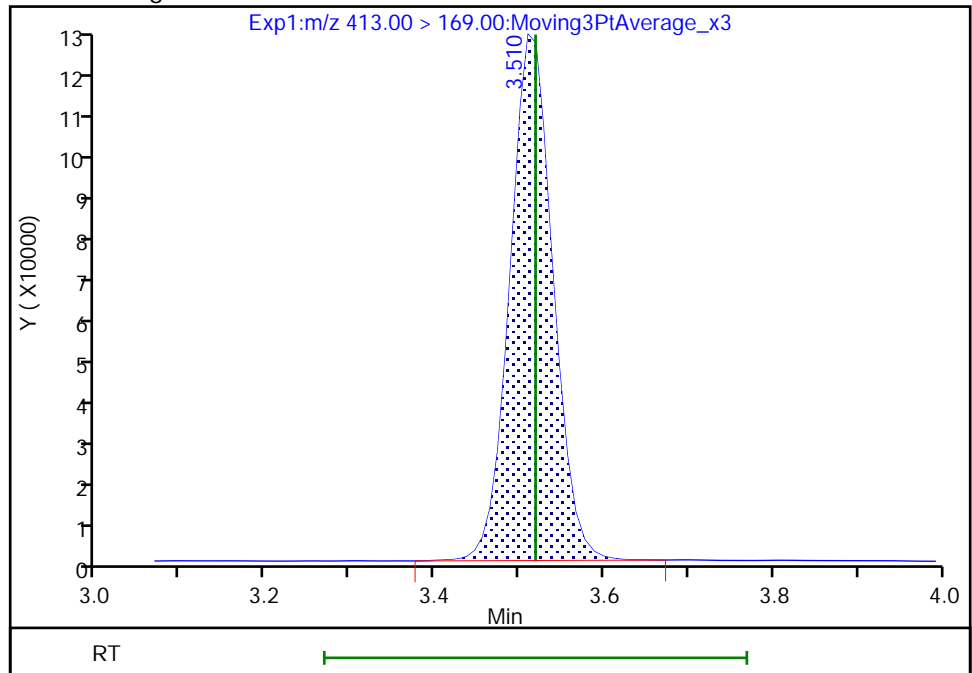
RT: 3.51
Area: 440617
Amount: 1.067429
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 438937
Amount: 1.067429
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:58:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

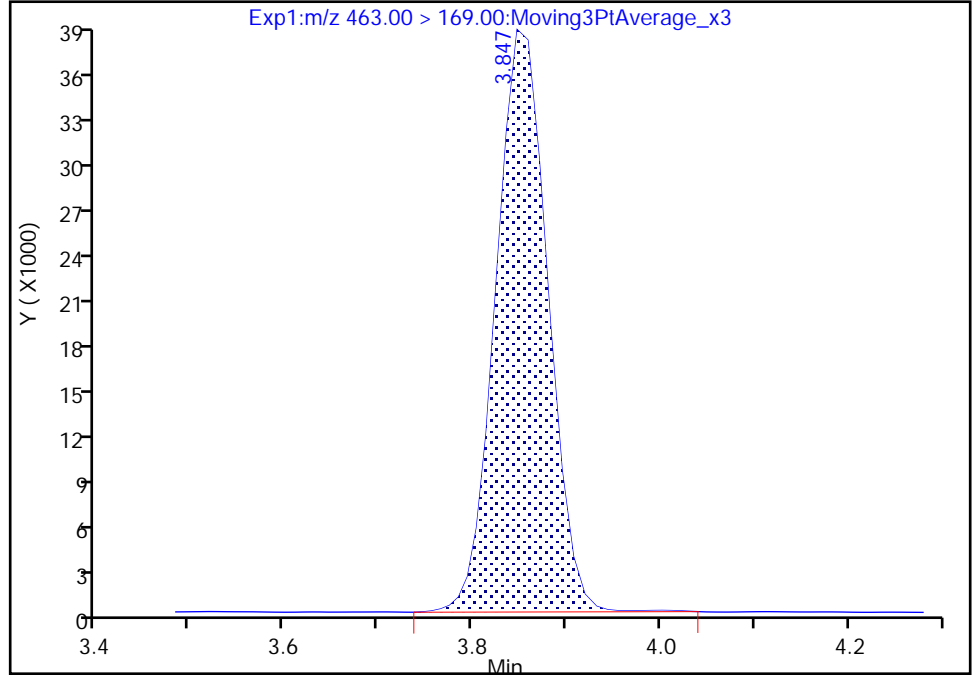
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

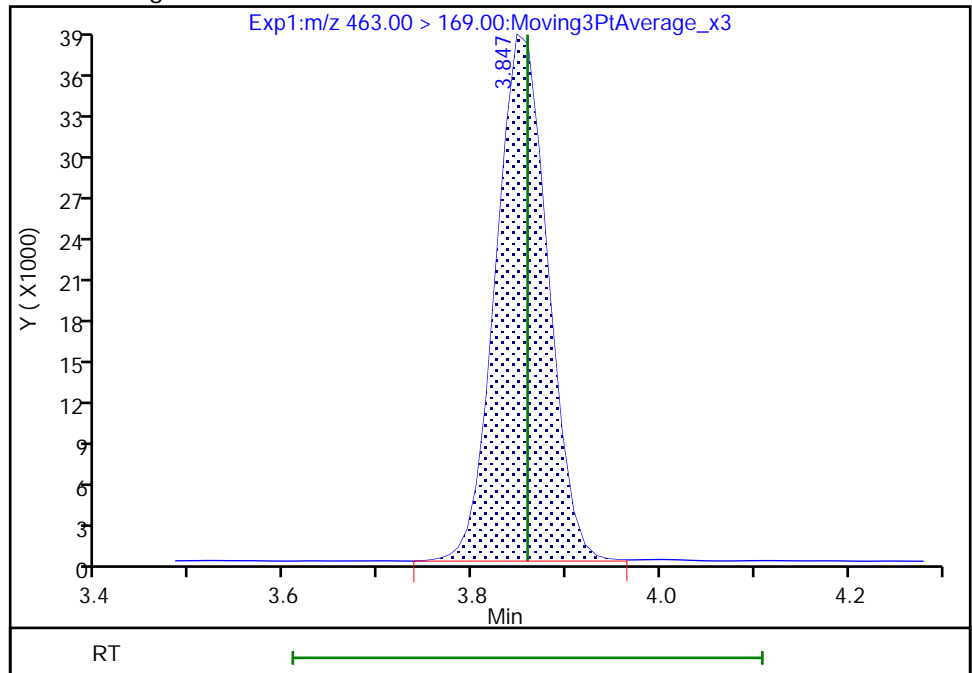
RT: 3.85
Area: 148405
Amount: 1.013316
Amount Units: ng/ml

Processing Integration Results



RT: 3.85
Area: 148302
Amount: 1.013316
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:59:46
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

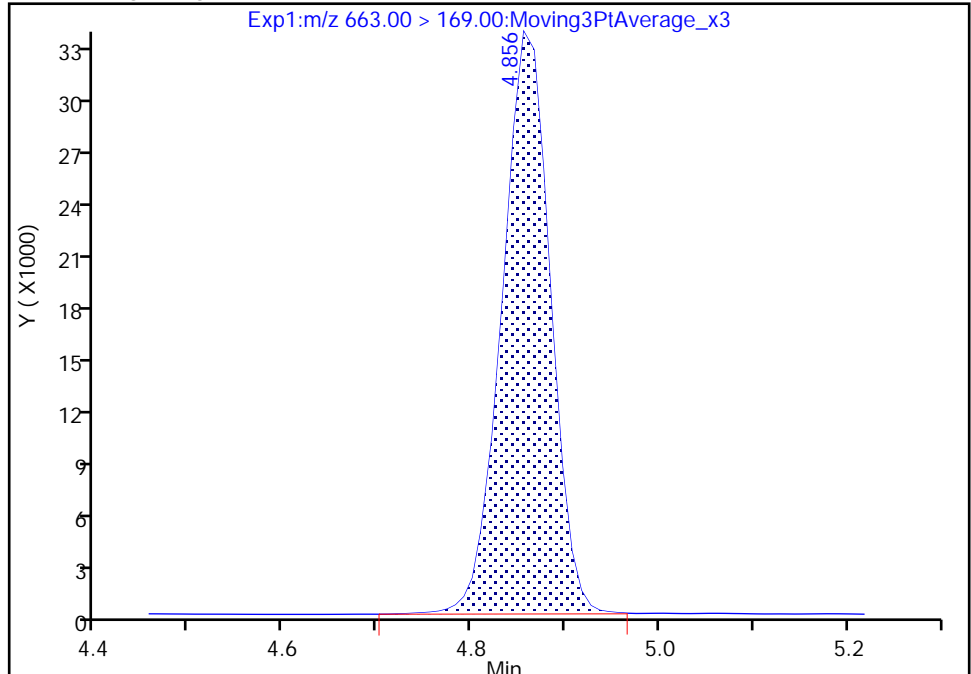
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

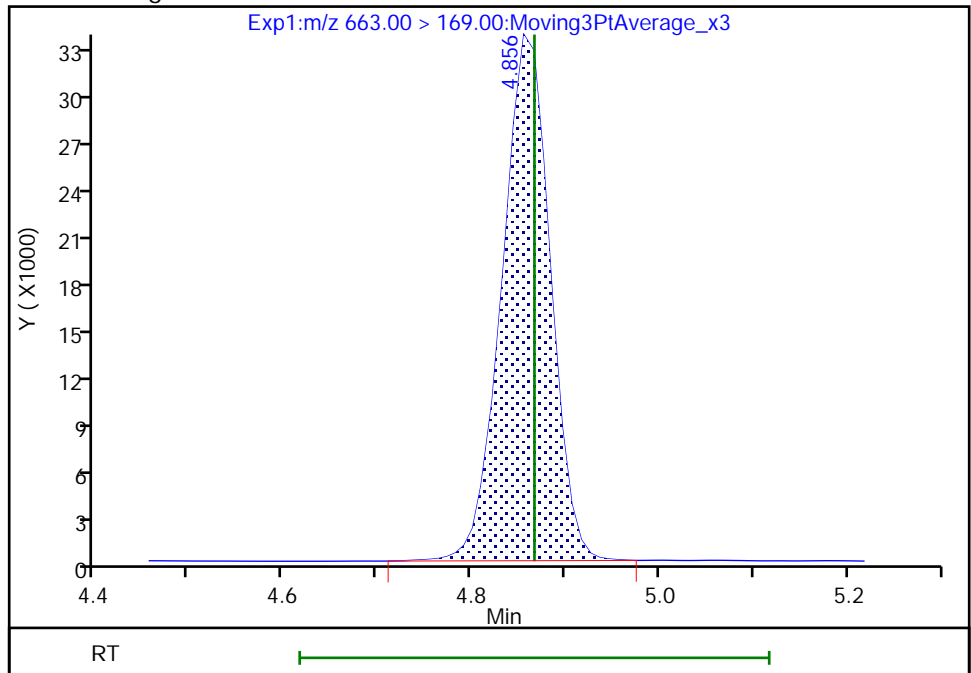
RT: 4.86
Area: 120973
Amount: 1.035242
Amount Units: ng/ml

Processing Integration Results



RT: 4.86
Area: 120819
Amount: 1.035242
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:01:55
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

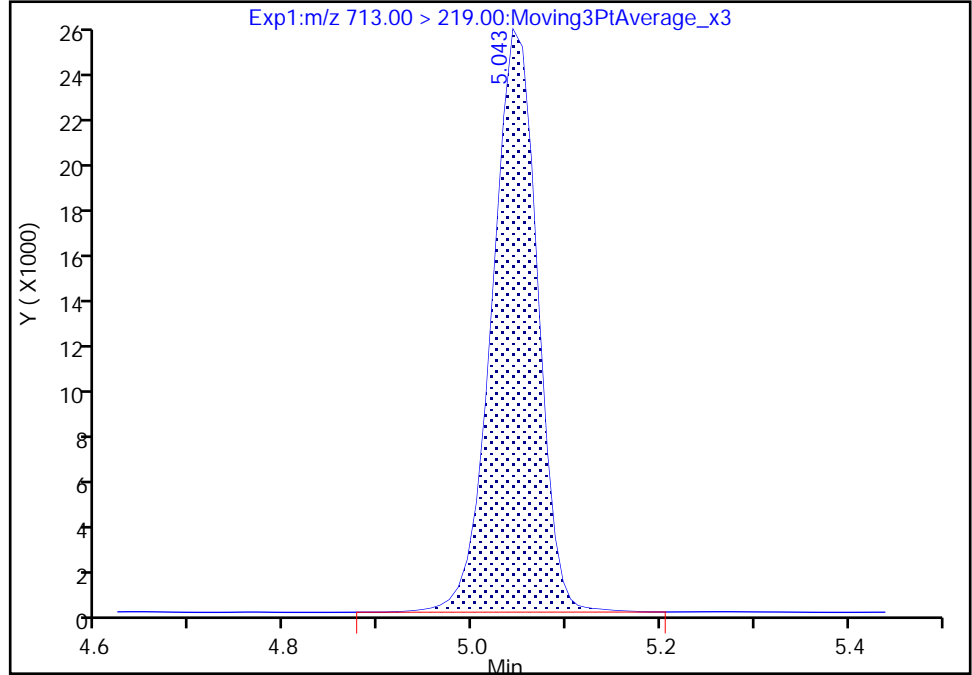
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

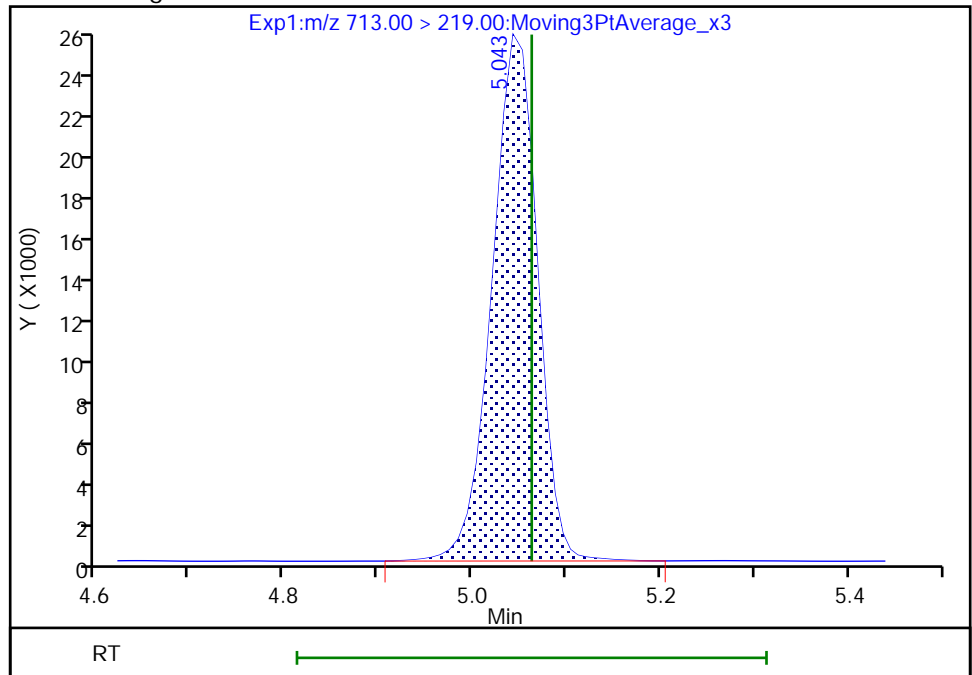
RT: 5.04
Area: 83872
Amount: 1.048353
Amount Units: ng/ml

Processing Integration Results



RT: 5.04
Area: 83860
Amount: 1.048353
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:02:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

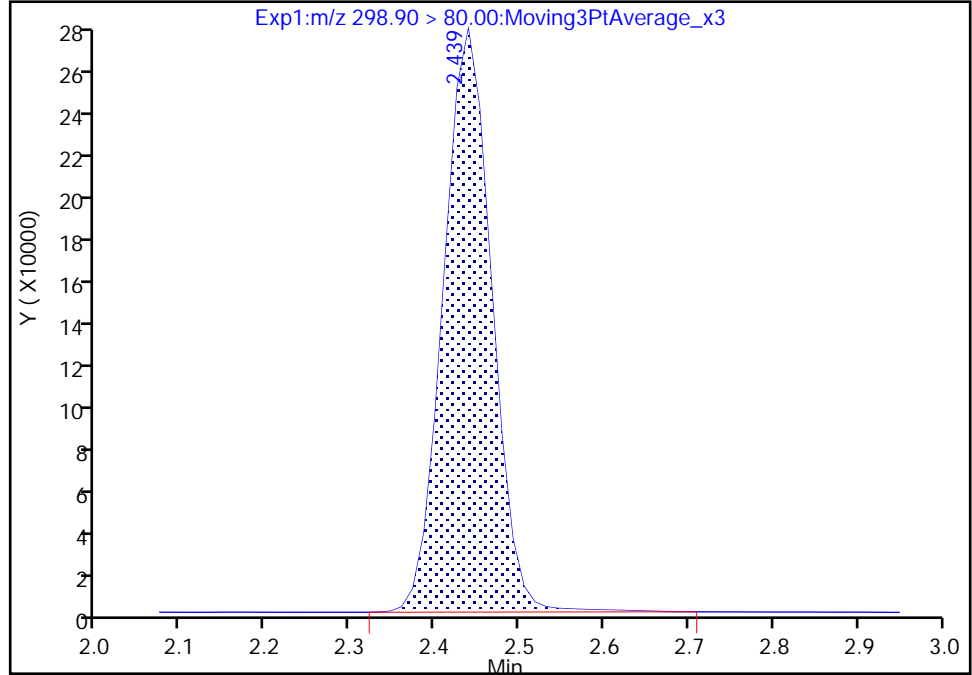
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

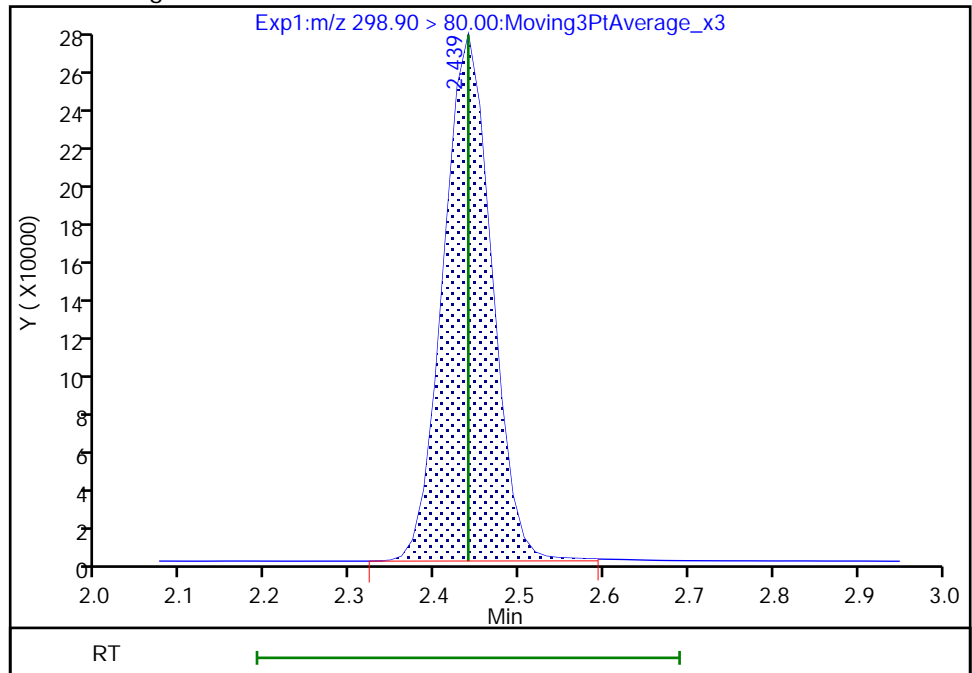
RT: 2.44
Area: 1073111
Amount: 0.969159
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 1070480
Amount: 0.966782
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:57:23
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

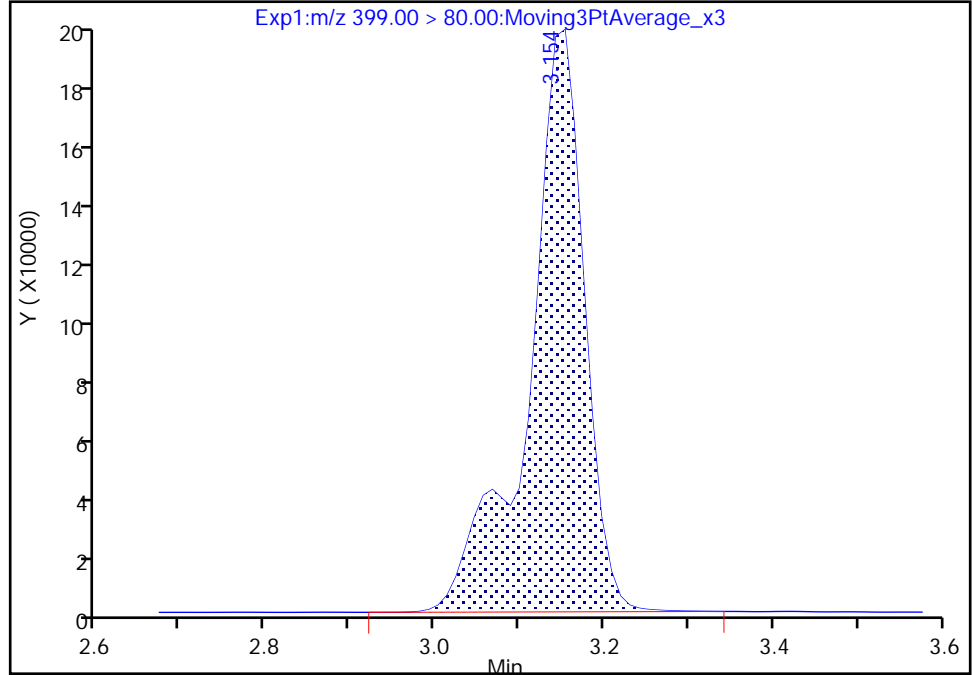
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

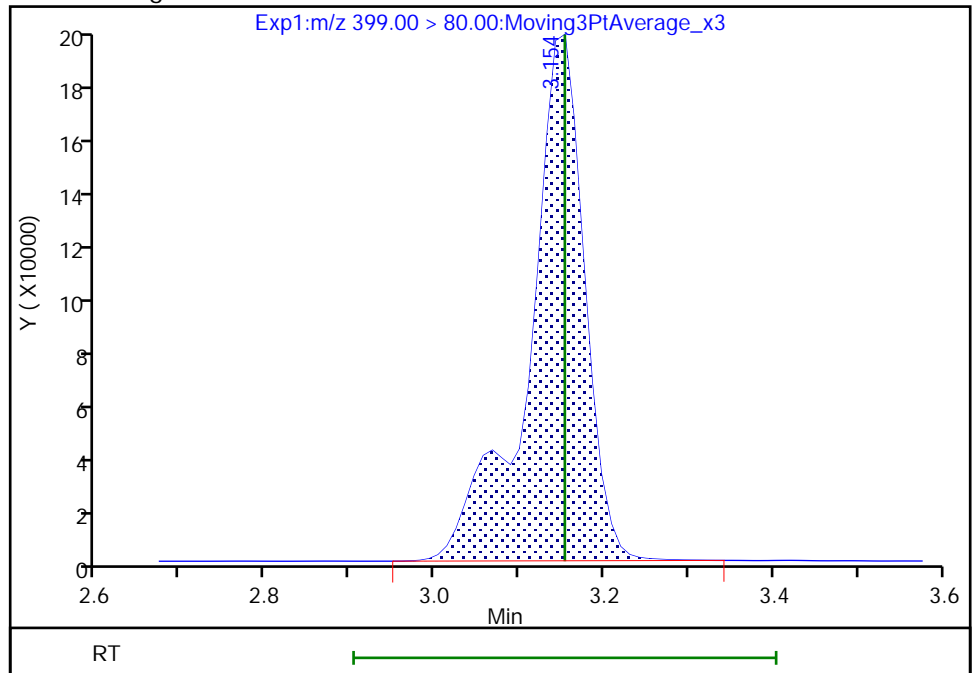
RT: 3.15
Area: 905330
Amount: 0.953837
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 905253
Amount: 0.953756
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:58:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 703 of 761

Eurofins TestAmerica, Burlington

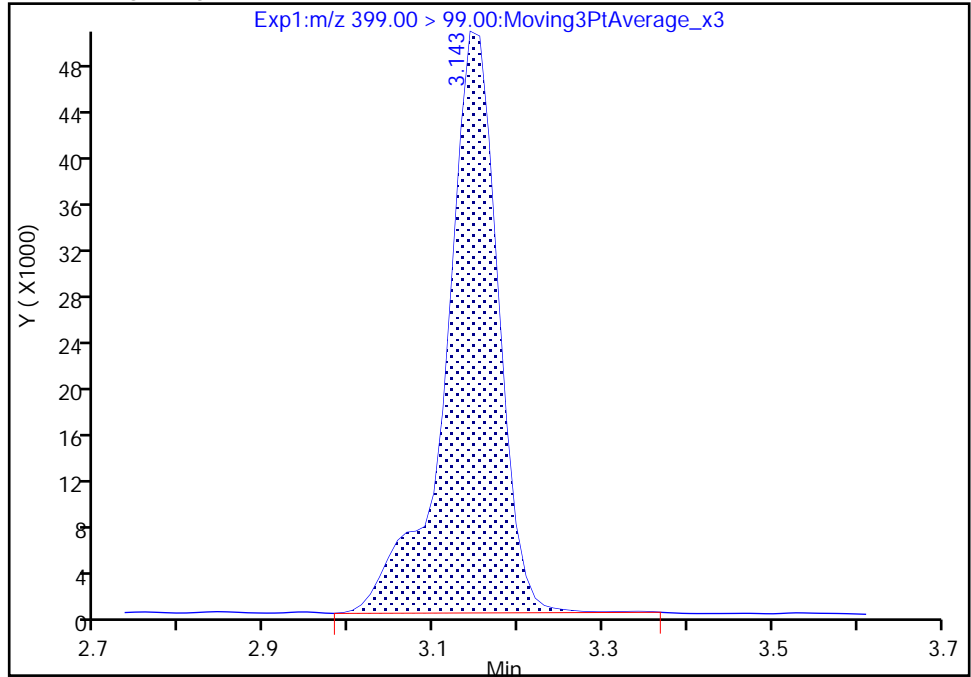
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

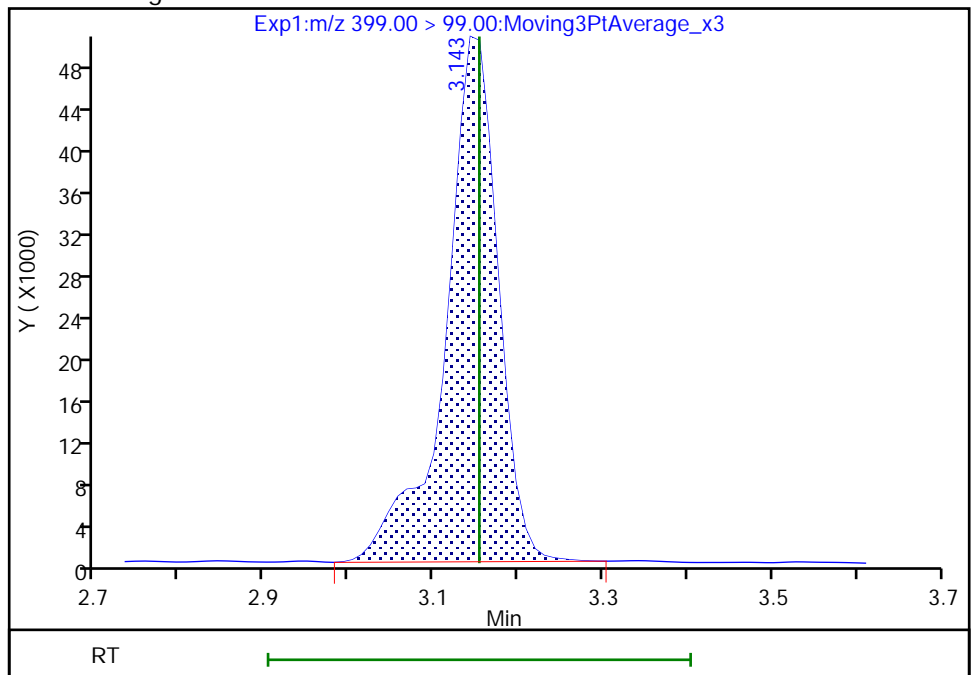
RT: 3.14
Area: 218169
Amount: 0.953837
Amount Units: ng/ml

Processing Integration Results



RT: 3.14
Area: 217635
Amount: 0.953756
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:58:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

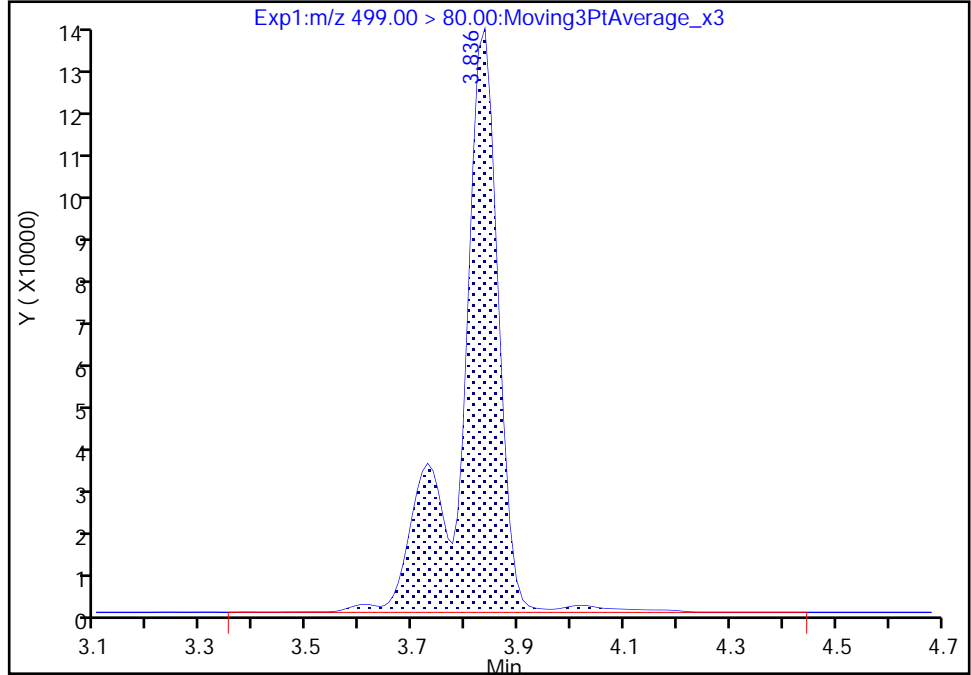
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

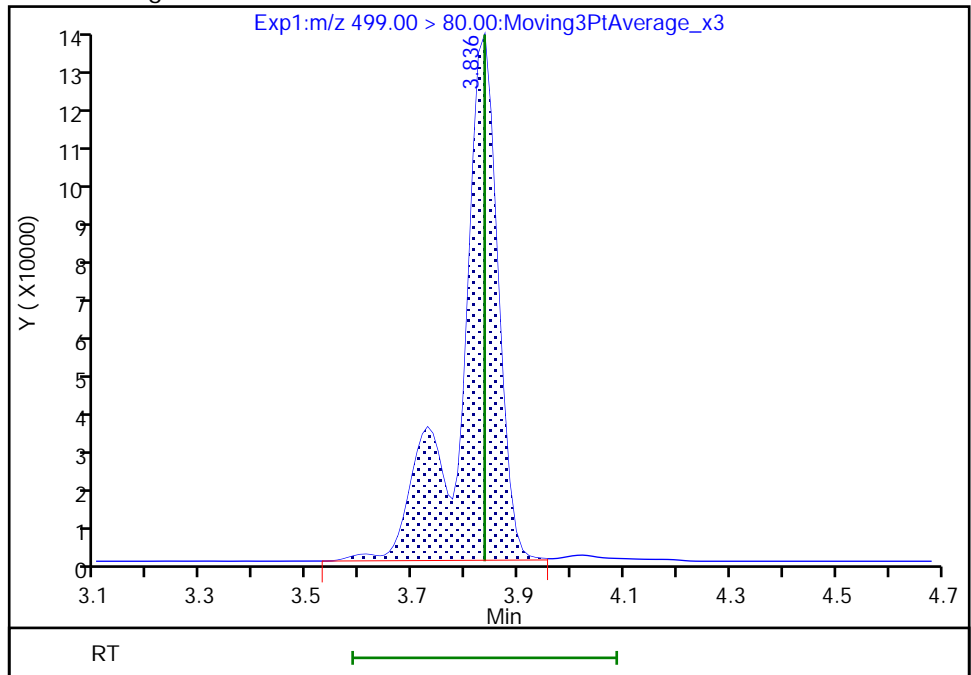
RT: 3.84
Area: 679697
Amount: 1.038133
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 662415
Amount: 1.011737
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

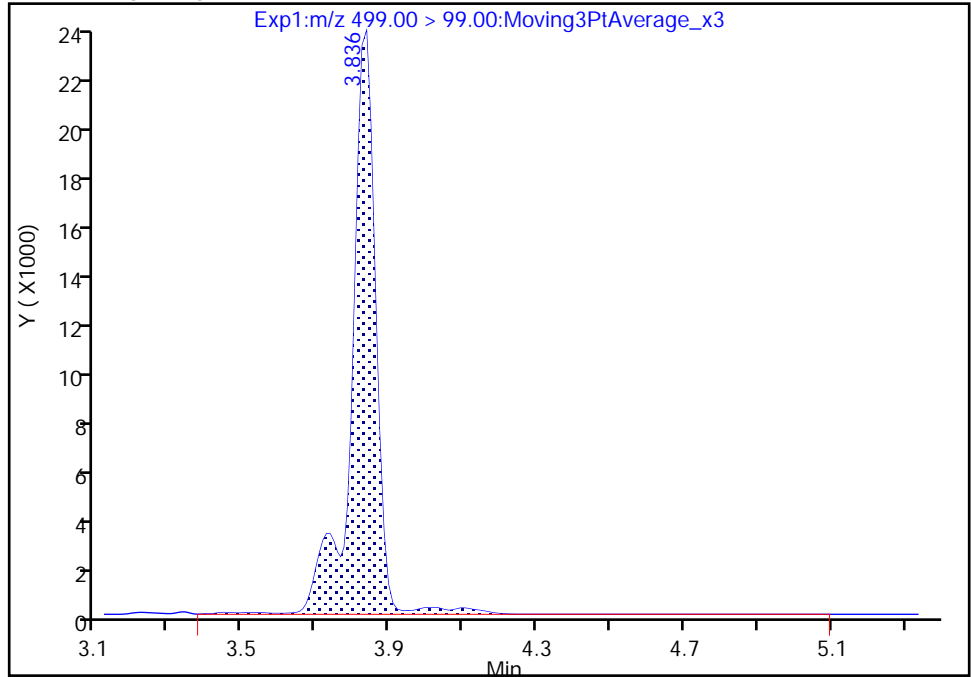
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

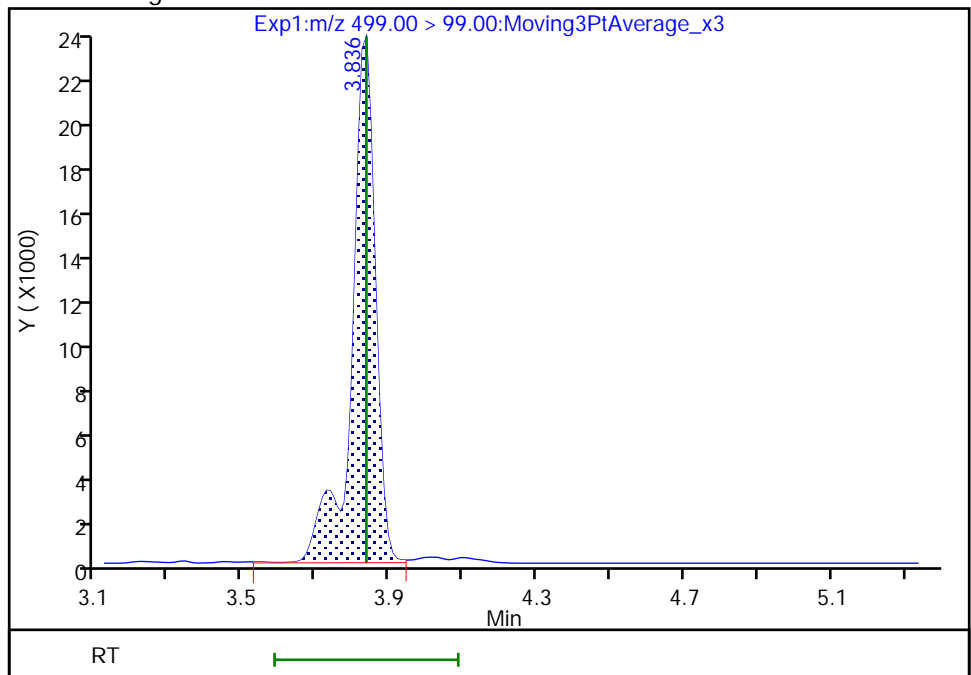
RT: 3.84
Area: 110562
Amount: 1.038133
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 106831
Amount: 1.011737
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 11:47:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

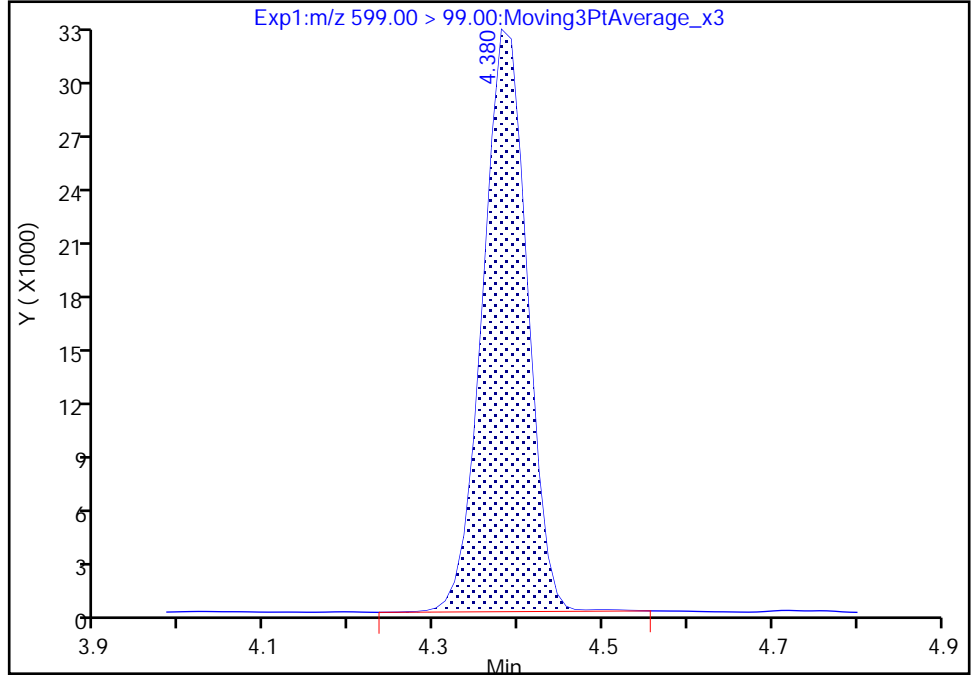
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

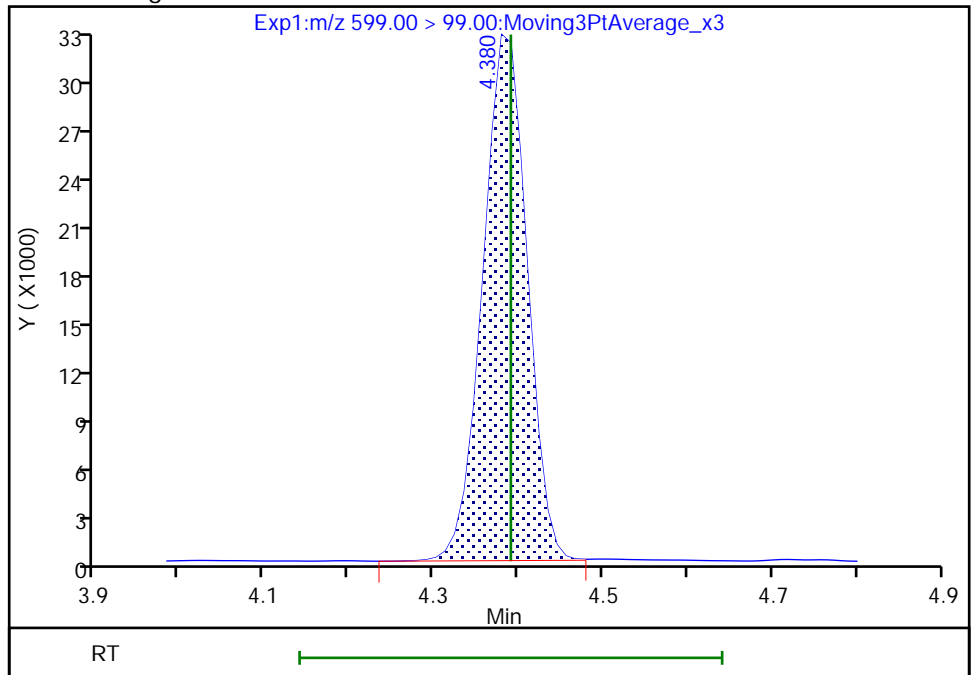
RT: 4.38
Area: 116534
Amount: 0.935505
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 116346
Amount: 0.935505
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:01:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

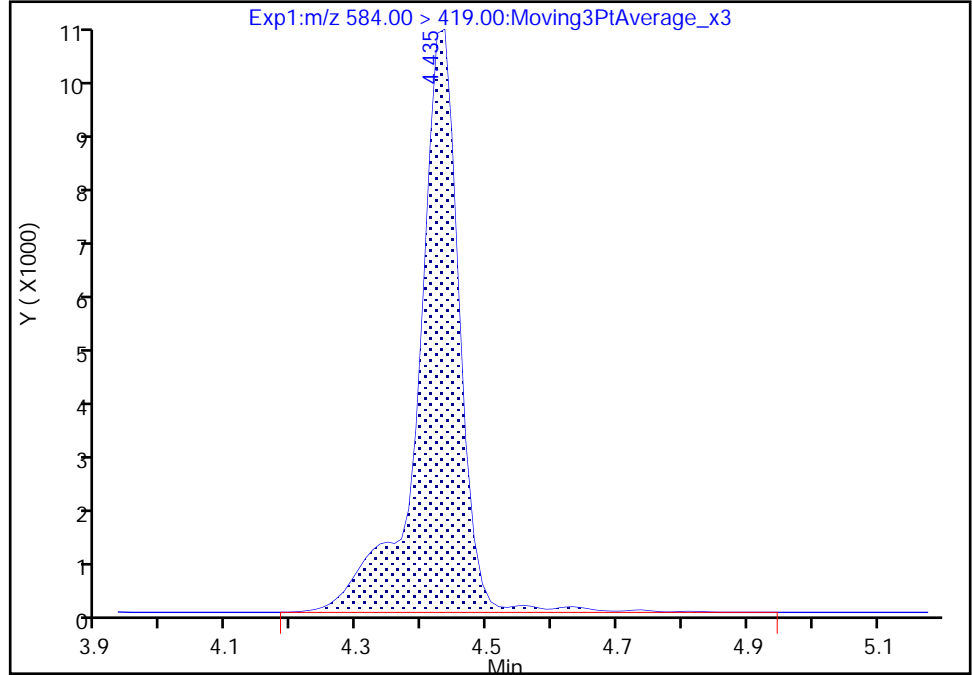
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

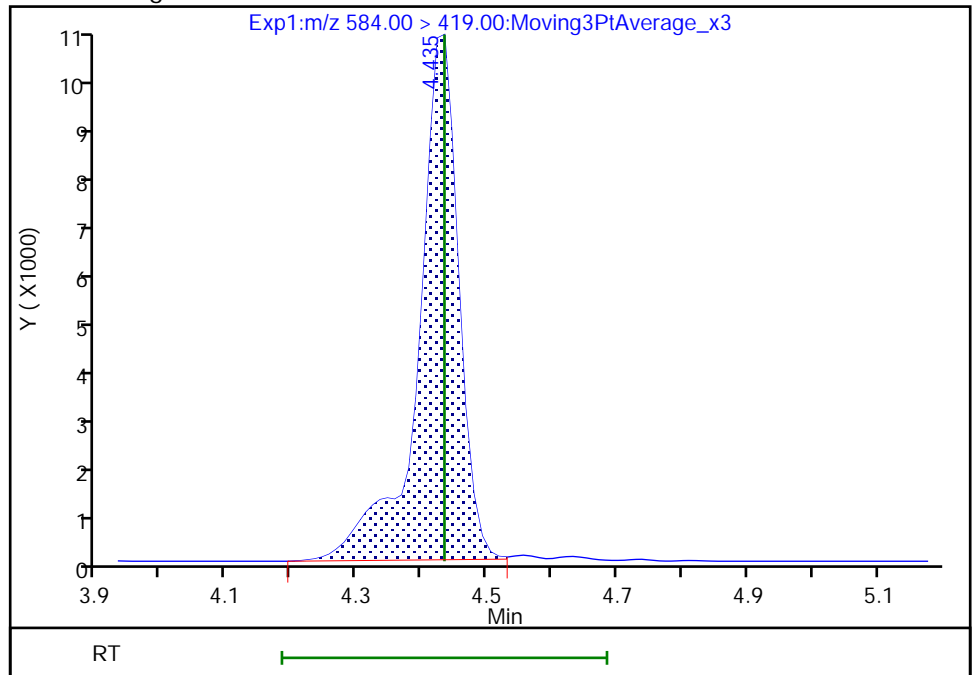
RT: 4.43
Area: 46380
Amount: 1.003851
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 45096
Amount: 0.975756
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:01:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

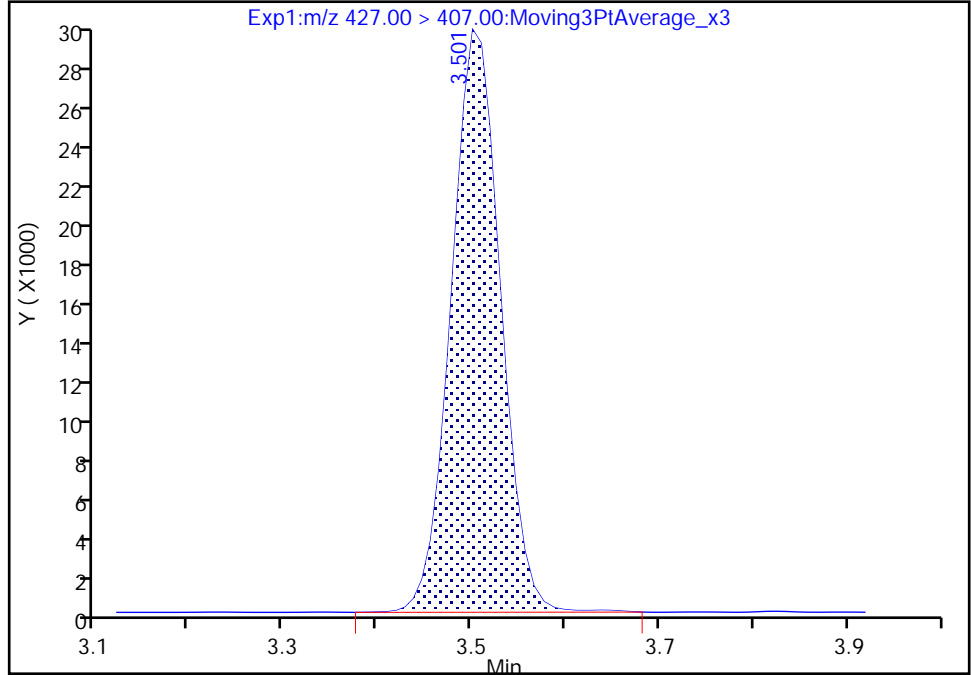
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

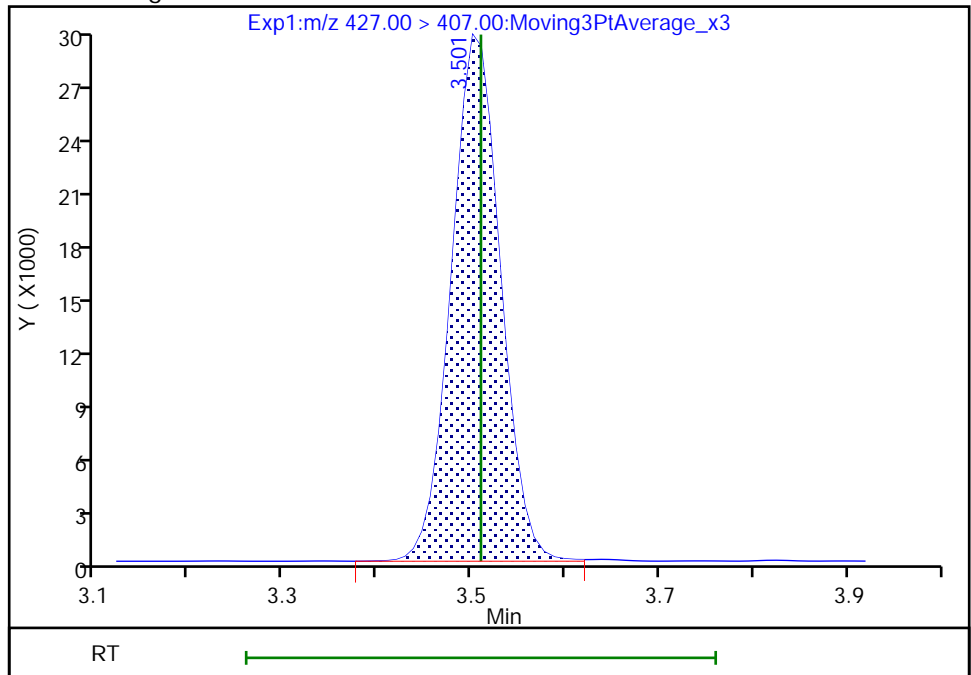
RT: 3.50
Area: 106414
Amount: 1.045698
Amount Units: ng/ml

Processing Integration Results



RT: 3.50
Area: 106259
Amount: 1.044175
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:58:43
Audit Action: Manually Integrated

Eurofins TestAmerica, Burlington

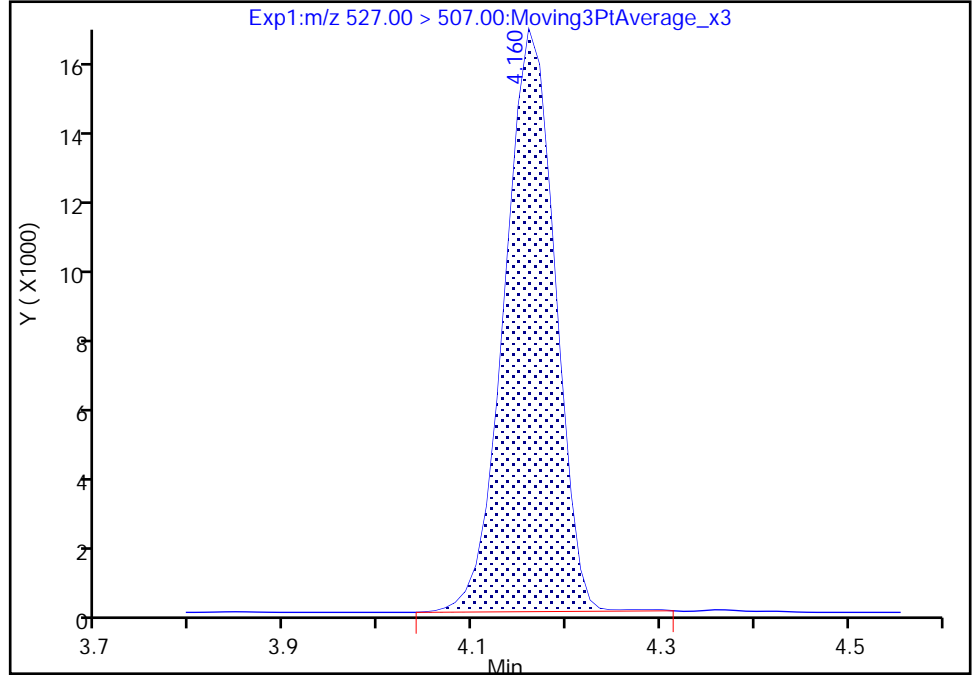
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Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

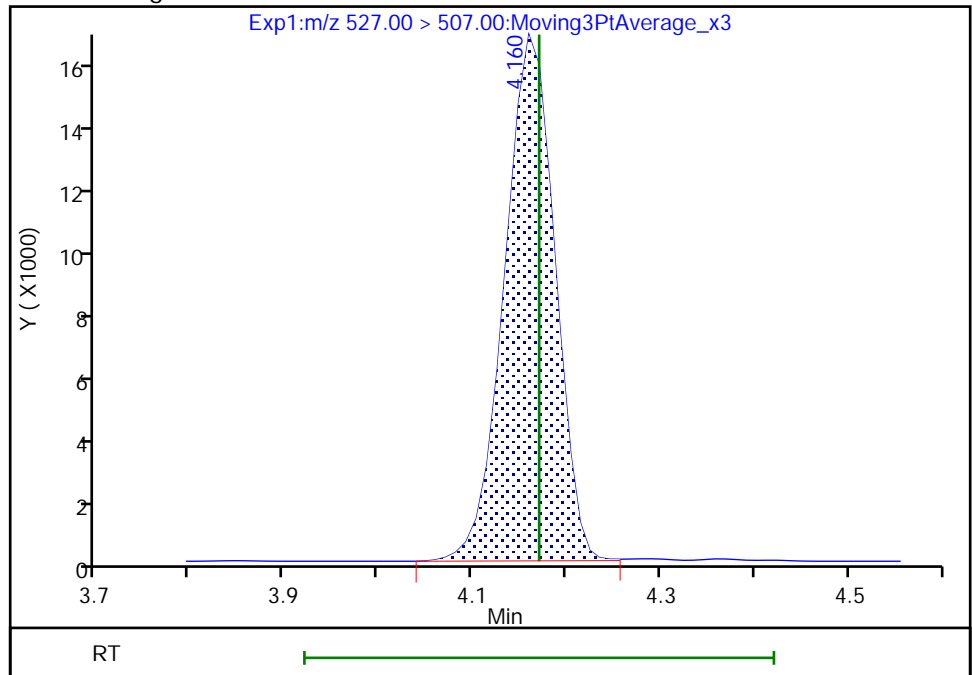
RT: 4.16
Area: 62564
Amount: 0.973606
Amount Units: ng/ml

Processing Integration Results



RT: 4.16
Area: 62568
Amount: 0.973669
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:00:28
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

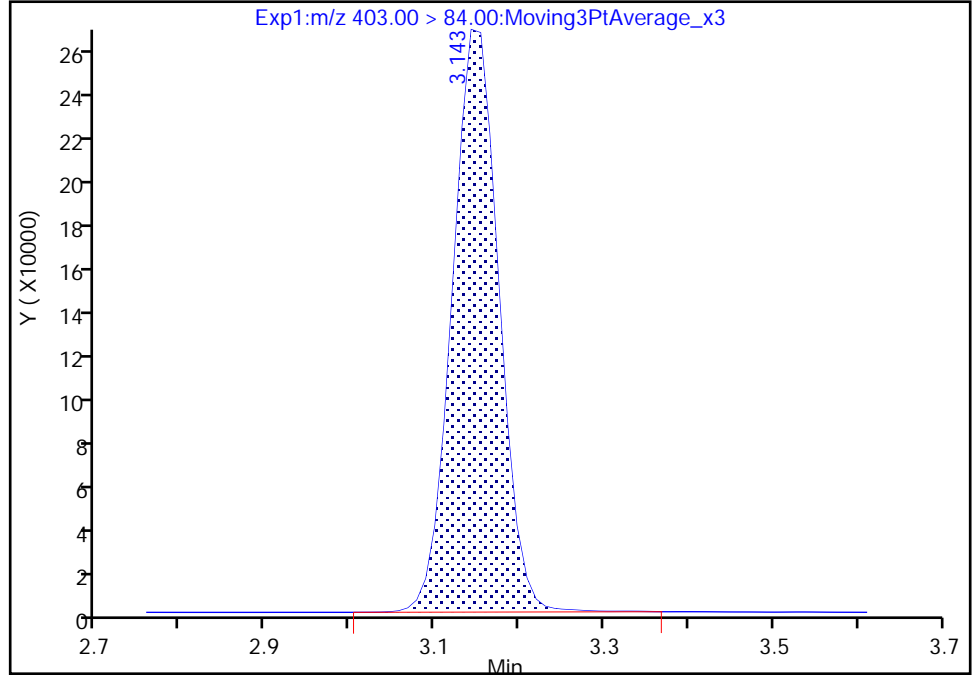
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 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

D 11 18O2 PFHxS, CAS: STL00994
Signal: 1

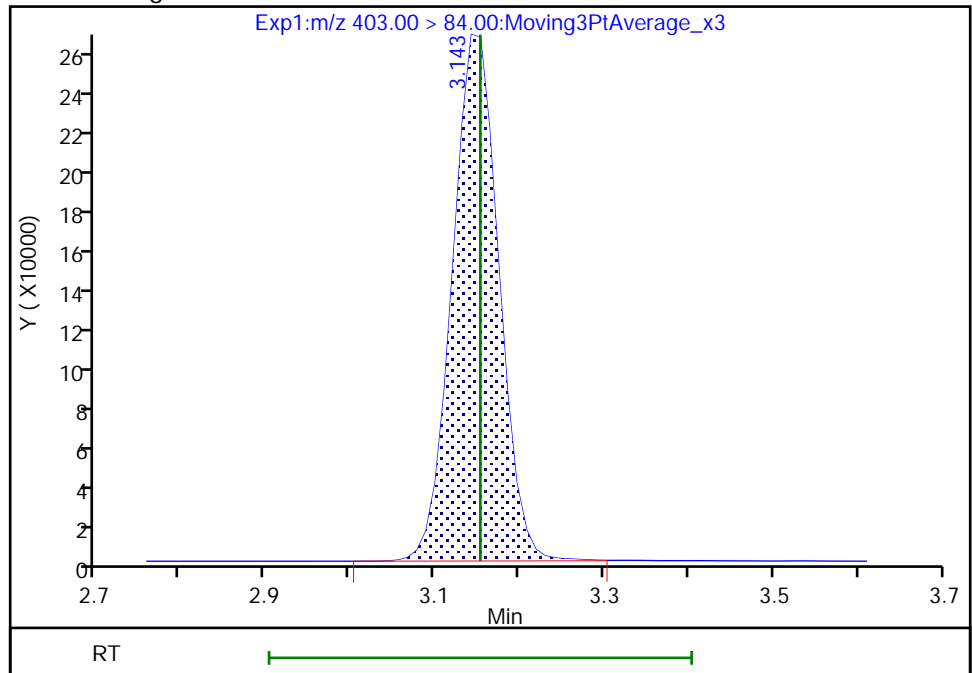
RT: 3.14
Area: 1012966
Amount: 1.124637
Amount Units: ng/ml

Processing Integration Results



RT: 3.14
Area: 1012435
Amount: 1.129297
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:35:04
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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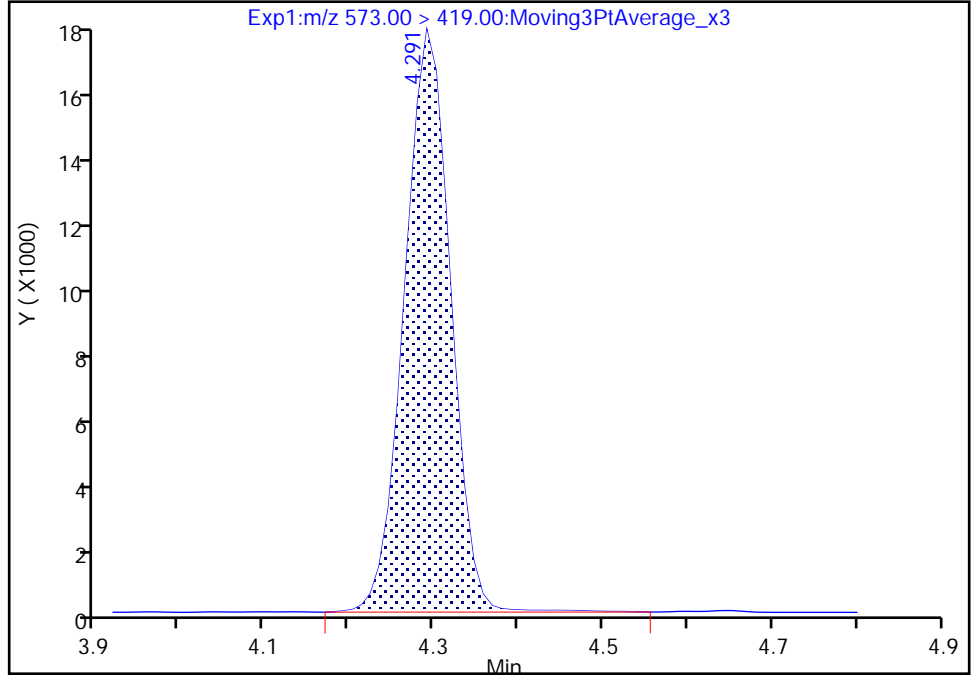
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

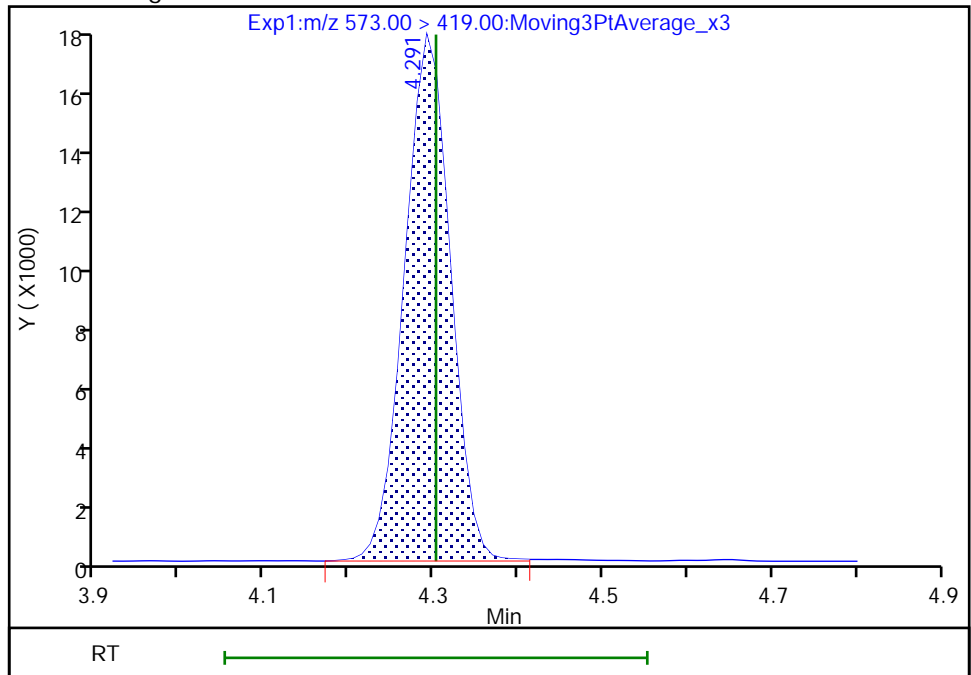
RT: 4.29
Area: 67760
Amount: 1.215300
Amount Units: ng/ml

Processing Integration Results



RT: 4.29
Area: 67500
Amount: 1.216290
Amount Units: ng/ml

Manual Integration Results



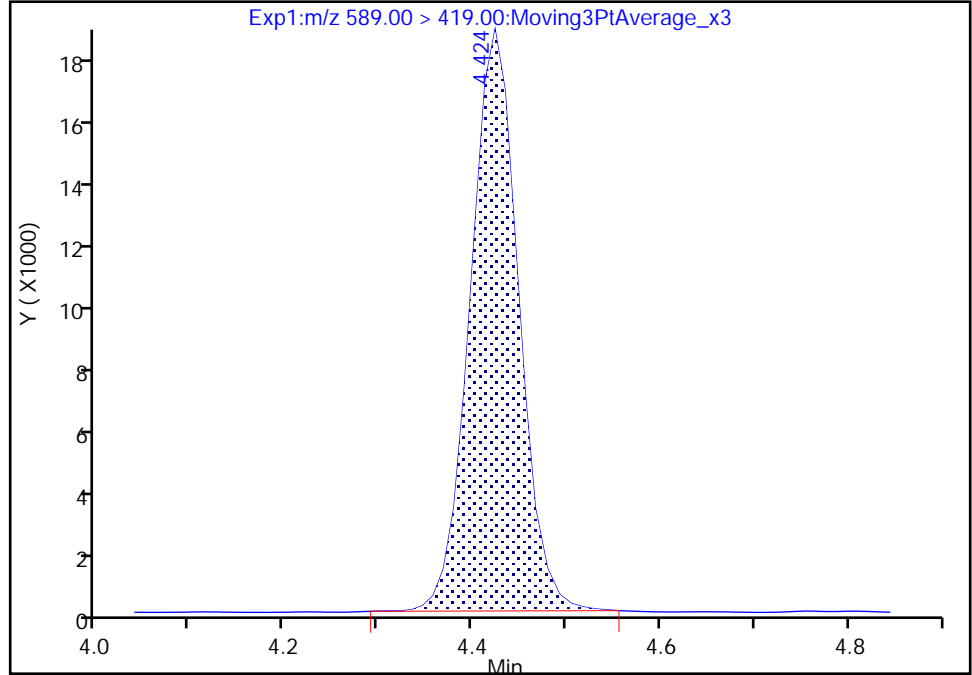
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 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

D 32 d5-NEtFOSAA, CAS: STL02117
Signal: 1

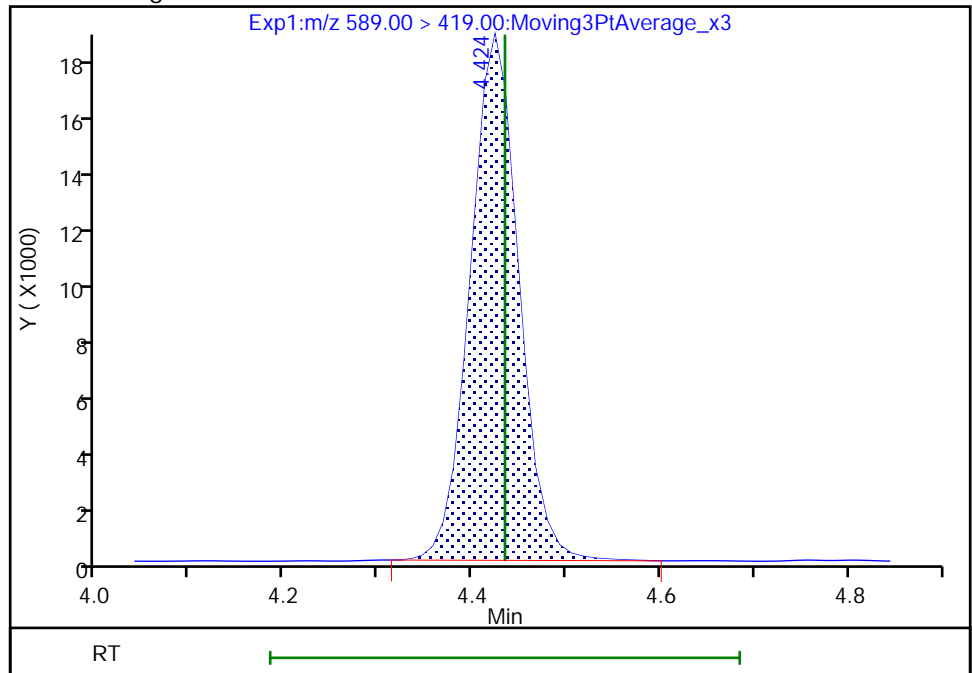
RT: 4.42
Area: 65505
Amount: 1.170825
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 65743
Amount: 1.180565
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 08:56:41
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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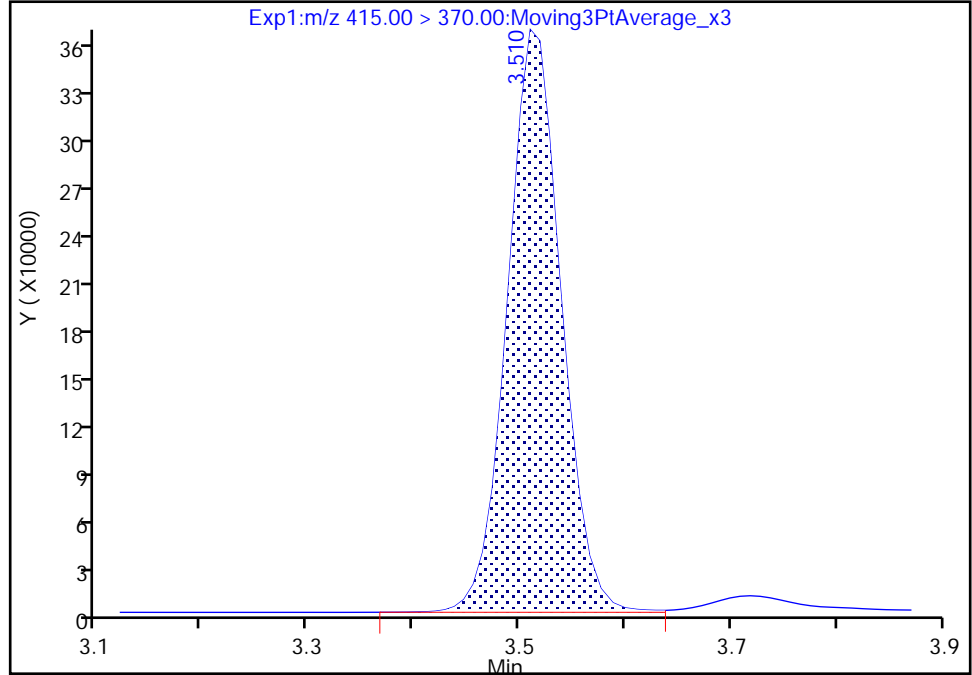
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C03.d
Injection Date: 21-May-2021 22:53:34 Instrument ID: LC812
Lims ID: LCS 200-167147/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 30 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

* 62 13C2 PFOA, CAS: STL00623
Signal: 1

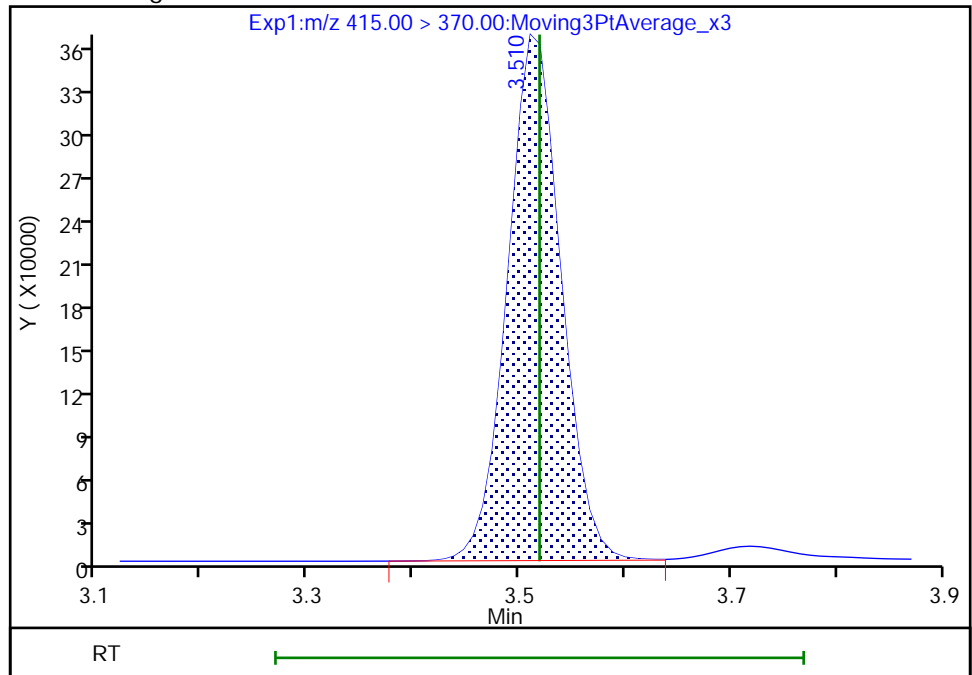
RT: 3.51
Area: 1273956
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.51
Area: 1268035
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 11:46:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 200-167147/3-A
 Matrix: Water Lab File ID: PA210521C04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 250 (mL) Date Analyzed: 05/21/2021 23:01
 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.: 167173 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	41.7		5.0	0.89
2706-90-3	Perfluoropentanoic acid (PFPeA)	44.7		2.0	0.47
307-24-4	Perfluorohexanoic acid (PFHxA)	42.1		2.0	0.45
375-85-9	Perfluoroheptanoic acid (PFHpA)	41.5		2.0	0.24
335-67-1	Perfluorooctanoic acid (PFOA)	44.0		2.0	0.42
375-95-1	Perfluorononanoic acid (PFNA)	42.1		2.0	0.28
335-76-2	Perfluorodecanoic acid (PFDA)	43.6		2.0	0.30
2058-94-8	Perfluoroundecanoic acid (PFUnA)	42.2		2.0	0.34
307-55-1	Perfluorododecanoic acid (PFDoA)	43.0		2.0	0.39
72629-94-8	Perfluorotridecanoic acid (PFTriA)	41.1		2.0	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	43.5		2.0	0.63
375-73-5	Perfluorobutanesulfonic acid (PFBS)	37.1		2.0	0.25
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	39.2		2.0	0.30
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	39.8		2.0	0.23
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	38.6		2.0	0.29
335-77-3	Perfluorodecanesulfonic acid (PFDS)	38.6		2.0	0.31
754-91-6	Perfluorooctanesulfonamide (PFOSA)	43.5		2.0	0.58
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	43.4		5.0	0.90
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	43.8		5.0	0.74
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	40.8		5.0	1.1
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	39.6		2.0	0.39

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 200-167147/3-A
 Matrix: Water Lab File ID: PA210521C04.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 05/21/2021 11:52
 Sample wt/vol: 250 (mL) Date Analyzed: 05/21/2021 23:01
 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.: 167173 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	96		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	101		50-150
STL00991	13C4 PFOS	100		50-150
STL00995	13C5 PFNA	99		50-150
STL00992	13C4 PFBA	102		25-150
STL00993	13C2 PFHxA	101		50-150
STL00996	13C2 PFDA	103		50-150
STL00997	13C2 PFUnA	99		50-150
STL00998	13C2 PFDoA	88		50-150
STL01056	13C8 FOSA	74		25-150
STL01893	13C5 PFPeA	101		25-150
STL02116	13C2 PFTeDA	87		50-150
STL02118	d3-NMeFOSAA	104		50-150
STL02117	d5-NEtFOSAA	98		50-150
STL02279	M2-6:2 FTS	96		25-150
STL02280	M2-8:2 FTS	106		25-150
STL02337	13C3 PFBS	98		50-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C04.d
 Lims ID: LCSD 200-167147/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 21-May-2021 23:01:51 ALS Bottle#: 31 Worklist Smp#: 4
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCSD 200-167147/3-A
 Misc. Info.: 200-0046090-004 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-May-2021 08:13:43 Calib Date: 20-May-2021 17:37:03
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20210520-46072.b\PA210520ICAL07.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1651

First Level Reviewer: nampitakw Date: 24-May-2021 09:22:19
 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										M
217.00 > 172.00	2.091	2.091	0.0	0.594	1593791	1.28		102	10121	M
2 Perfluorobutanoic acid										
212.90 > 169.00	2.091	2.100	-0.009	1.000	1241989	1.04		104	240	
D 3 13C5 PFPeA										
267.90 > 223.00	2.413	2.426	-0.013	0.686	1141550	1.26		101	3359	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.426	2.426	0.0	1.005	1031737	1.12		112	116	
D 47 13C3 PFBS										M
301.90 > 80.00	2.439	2.439	0.0	0.693	1288520	1.14		97.7	250586	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.439	2.439	0.0	1.000	1059914	0.9281	Target=2.19	105	2072	M
298.90 > 99.00	2.439	2.439	0.0	1.000	497364		2.13(1.09-3.28)		362	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.746	2.746	0.0	0.780	112269	1.27		109	180	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.746	2.746	0.0	1.000	156981	0.9366		100	1757	
D 7 13C2 PFHxA										
315.00 > 270.00	2.783	2.782	0.001	0.791	1242837	1.26		101	2860	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.783	2.782	0.001	1.000	1058608	1.05	Target=12.12	105	300	M
313.00 > 119.00	2.783	2.782	0.001	1.000	91816		11.53(6.06-18.18)		220	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.783	2.795	-0.011	0.882	1032891	1.01	Target=3.58	107	1710	M
349.00 > 99.00	2.783	2.795	-0.011	0.882	300777		3.43(1.79-5.37)		489	
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.892	2.892	0.0	1.000	187548	1.14		114	87.5	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	0.822	124818	1.14		91.6	1220	
D 11 18O2 PFHxS										
403.00 > 84.00	3.154	3.154	0.0	0.896	997055	1.13		95.7	1065	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.154	3.154	0.0	1.000	915609	0.9795	Target=4.23	108	1426	M
399.00 > 99.00	3.154	3.154	0.0	1.000	217798		4.20(2.12-6.35)		314	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.154	3.154	0.0	0.896	1216134	1.23		98.8	2389	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.154	3.164	-0.010	1.000	1017469	1.04	Target=3.49	104	485	
363.00 > 169.00	3.154	3.164	-0.010	1.000	281660		3.61(1.75-5.24)		577	
77 DONA										
377.00 > 251.00	3.197	3.196	0.001	0.833	1991419	1.00	Target=2.43	106	2269	M
377.00 > 85.00	3.197	3.196	0.001	0.833	831471		2.40(1.21-3.64)		1479	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.501	3.510	-0.009	0.913	781943	0.99	Target=6.21	104	2258	M
449.00 > 99.00	3.501	3.510	-0.009	0.913	118298		6.61(3.10-9.31)		500	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.510	3.510	0.0	0.997	132787	1.14		95.8	523	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.510	3.510	0.0	1.000	102339	1.02		108	870	
D 14 13C4 PFOA										
417.00 > 372.00	3.519	3.519	0.0	1.000	1255040	1.26		101	2441	M
* 62 13C2 PFOA										
415.00 > 370.00	3.519	3.519	0.0		1245813	1.25			176	M
15 Perfluorooctanoic acid										
413.00 > 369.00	3.519	3.519	0.0	1.000	1133920	1.10	Target=2.53	110	531	M
413.00 > 169.00	3.519	3.519	0.0	1.000	436024		2.60(1.27-3.80)		948	M
D 18 13C4 PFOS										
503.00 > 80.00	3.836	3.836	0.0	1.090	756124	1.19		99.6	2667	M
17 Perfluorooctanesulfonic acid										
499.00 > 80.00	3.836	3.836	0.0	1.000	657848	0.9657	Target=6.09	104	307	M
499.00 > 99.00	3.836	3.836	0.0	1.000	107679		6.11(3.04-9.13)		239	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.859	3.858	0.001	1.000	917470	1.05	Target=6.34	105	371	
463.00 > 169.00	3.859	3.858	0.001	1.000	141517		6.48(3.17-9.51)		1707	
D 19 13C5 PFNA										
468.00 > 423.00	3.859	3.858	0.001	1.097	1132092	1.23		98.5	2052	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.993	4.002	-0.009	1.041	610114	0.9309		99.9	1045	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.126	4.126	0.0	1.076	499639	0.9848	Target=2.95	103	1946	
549.00 > 99.00	4.126	4.126	0.0	1.076	160202		3.12(1.47-4.42)		498	
D 23 13C2 PFDA										
515.00 > 470.00	4.149	4.160	-0.011	1.179	1033982	1.28		103	2599	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	4.160	4.160	0.0	1.003	944388	1.09	Target=7.79	109	905	
513.00 > 169.00	4.149	4.160	-0.011	1.000	111839		8.44(3.90-11.69)		1041	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.160	4.171	-0.011	1.182	152552	1.28		106	853	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.160	4.171	-0.011	1.000	63292	0.99		103	914	
D 21 13C8 FOSA										
506.00 > 78.00	4.225	4.225	0.0	1.201	1058444	0.9309		74.5	2657	M
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.225	4.225	0.0	1.000	901508	1.09		109	1714	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.302	4.302	0.0	1.223	70875	1.30		104	213	M
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.302	4.302	0.0	1.000	54138	1.09		109	359	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.391	4.391	0.0	1.145	385446	0.9653	Target=2.87	100	2520	
599.00 > 99.00	4.391	4.391	0.0	1.145	131982		2.92(1.44-4.31)		1082	M
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.413	4.424	-0.011	1.000	664910	1.05	Target=7.94	105	1165	
563.00 > 169.00	4.413	4.424	-0.011	1.000	92607		7.18(3.97-11.91)		863	
D 30 13C2 PFUnA										
565.00 > 520.00	4.413	4.424	-0.011	1.254	796985	1.23		98.6	3430	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.424	4.434	-0.010	1.257	67103	1.23		98.1	916	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.435	4.434	0.001	1.002	51575	1.09		109	319	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.505	4.518	-0.013	1.174	541331	0.9281		98.5	2329	
D 36 13C2 PFDaA										
615.00 > 570.00	4.654	4.653	0.001	1.322	745658	1.10		88.2	2903	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.654	4.653	0.001	1.000	643284	1.08	Target=5.94	108	305	M
613.00 > 169.00	4.643	4.653	-0.010	0.998	117196		5.49(2.97-8.92)		1310	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.663	4.673	-0.010	1.121	31843	0.9711		101	1042	M
75 Perfluorododecanesulfonic acid (
699.00 > 80.00	4.823	4.834	-0.011	1.257	122917	0.9023	Target=0.44	93.2	1380	
699.00 > 99.00	4.823	4.834	-0.011	1.257	254332		0.48(0.22-0.66)		1753	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.867	4.867	0.0	1.046	495196	1.03	Target=3.97	103	300	M
663.00 > 169.00	4.867	4.867	0.0	1.046	135202		3.66(1.99-5.96)		1308	
D 43 13C2 PFTeDA										
715.00 > 670.00	5.053	5.063	-0.010	1.436	535775	1.08		86.6	2659	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.053	5.063	-0.010	1.000	95379	1.09	Target=1.01	109	1346	
713.00 > 219.00	5.044	5.063	-0.019	0.998	89941		1.06(0.51-1.52)		1647	

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	5.416	-0.011	1.536	577862	1.19		95.4	3392	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.405	5.416	-0.011	1.000	455716	1.02	Target=3.56	102	419	
813.00 > 169.00	5.405	5.416	-0.011	1.000	131039		3.48(1.78-5.34)		1615	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.738	5.756	-0.018	1.062	406491	1.03	Target=3.39	103	399	
913.00 > 169.00	5.738	5.756	-0.018	1.062	121563		3.34(1.70-5.09)		980	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C04.d

Injection Date: 21-May-2021 23:01:51

Instrument ID: LC812

Lims ID: LCSD 200-167147/3-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 31

Worklist Smp#: 4

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

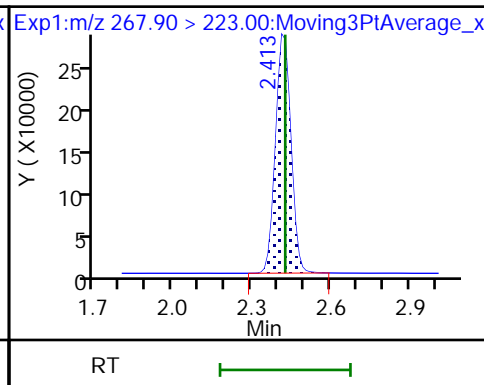
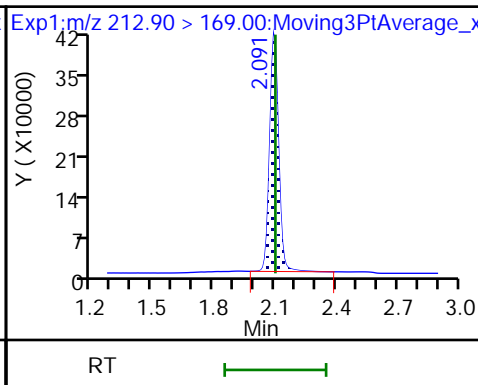
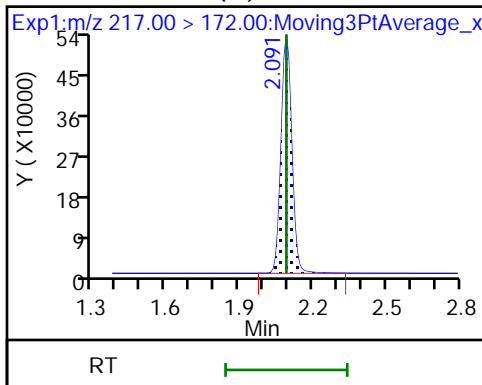
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA (M)

2 Perfluorobutanoic acid

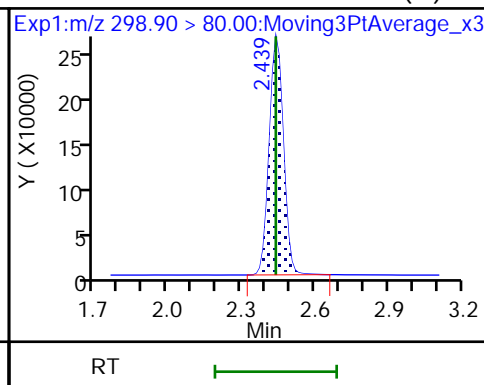
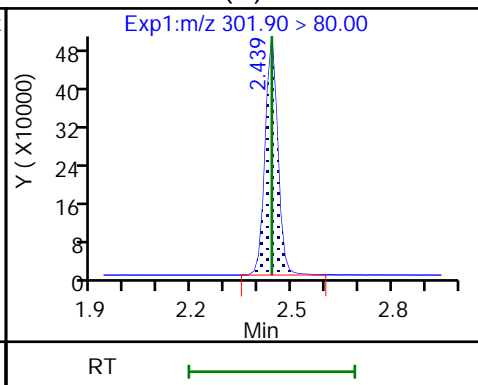
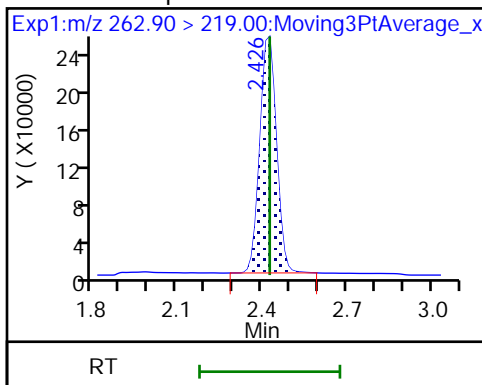
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

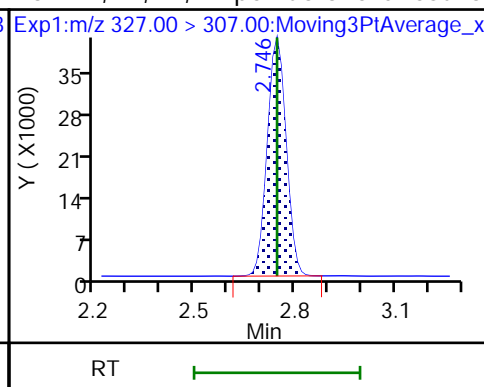
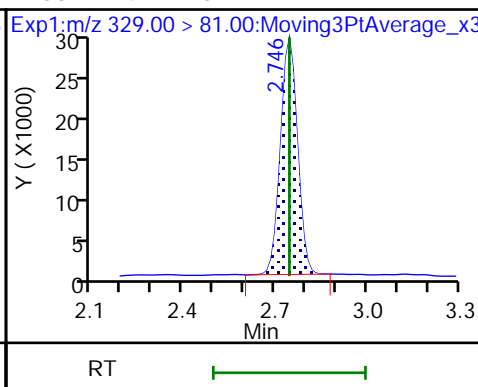
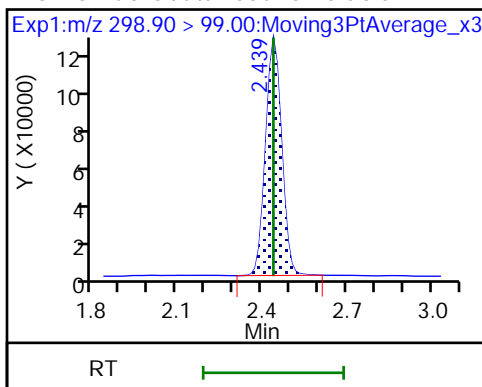
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

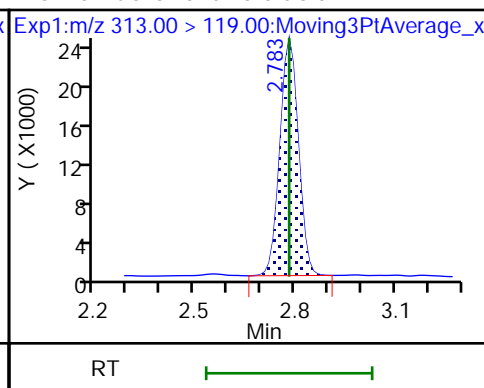
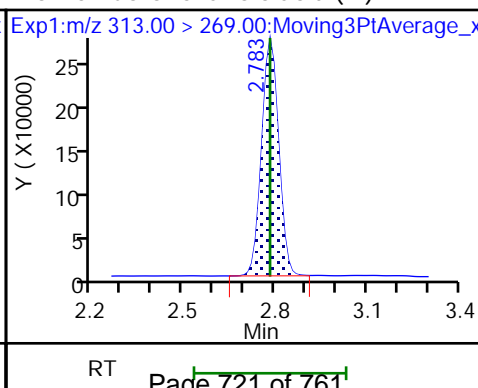
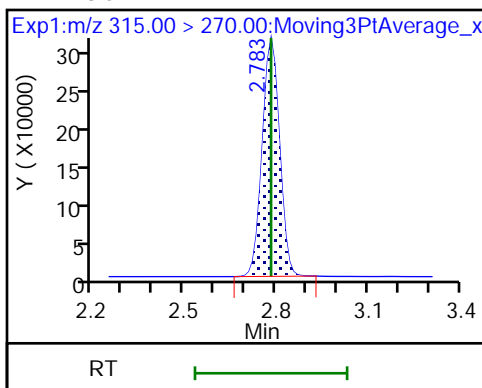
61 1H,1H,2H,2H-perfluorohexanesulfo

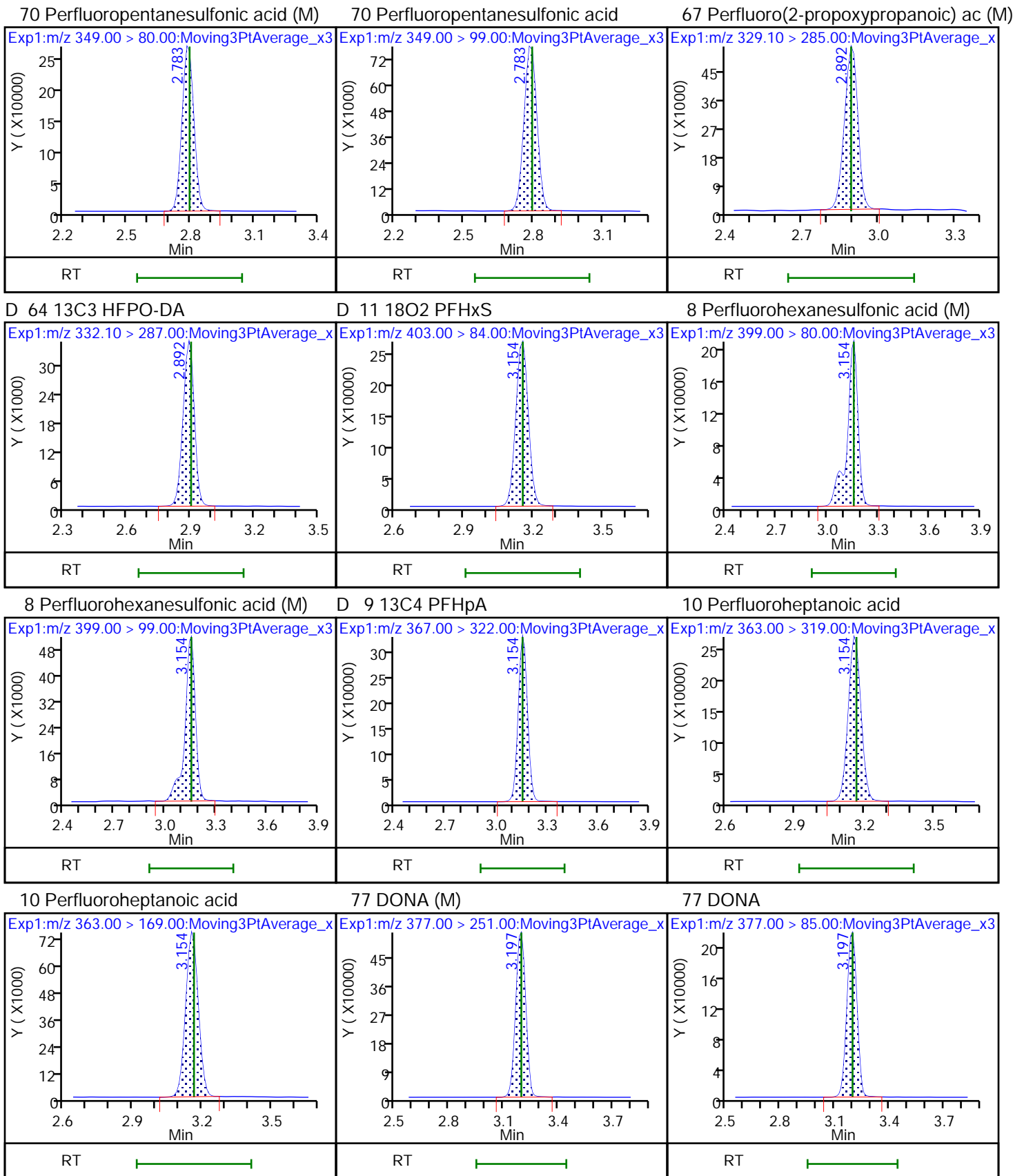


D 7 13C2 PFHxA

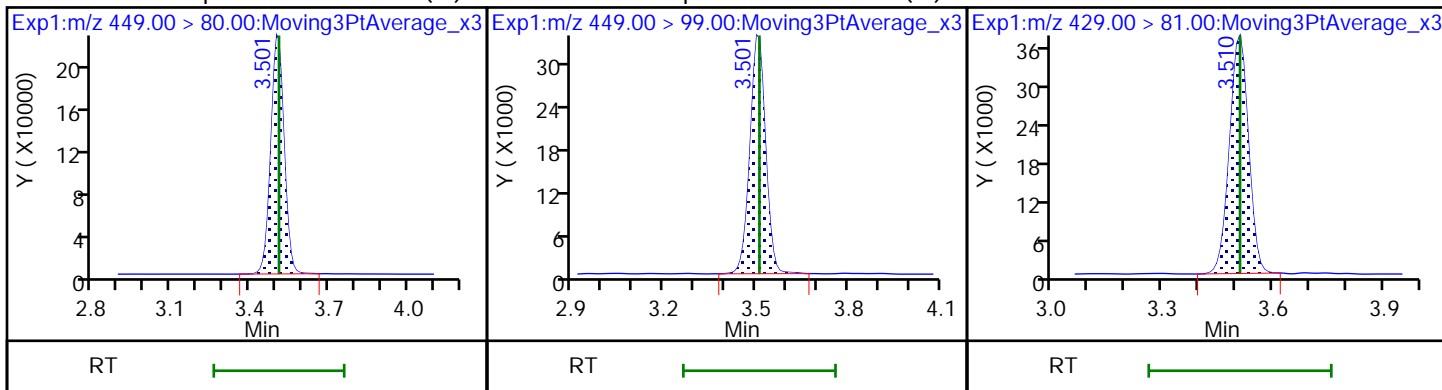
6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid

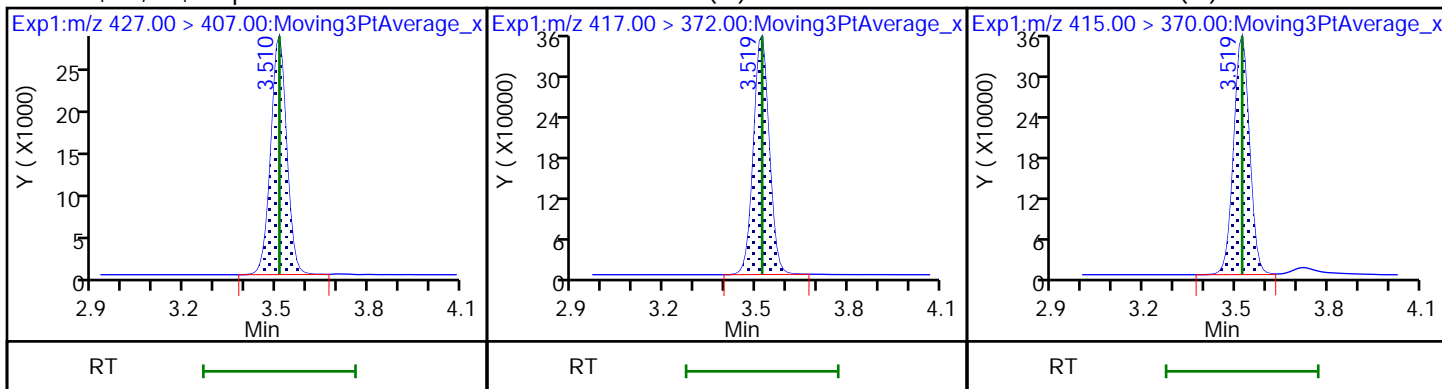




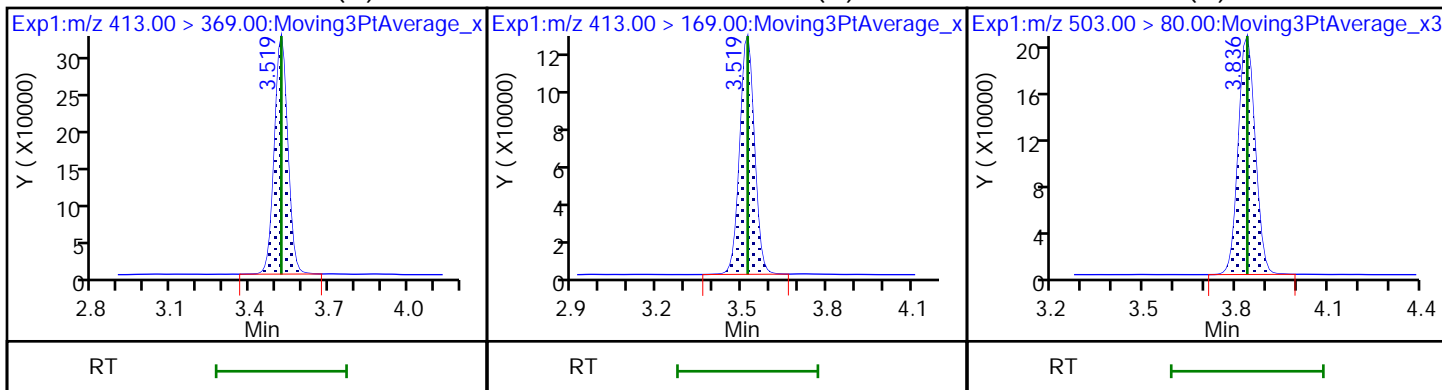
16 Perfluoroheptanesulfonic acid (M) 16 Perfluoroheptanesulfonic acid (M) D 12 M2-6:2 FTS



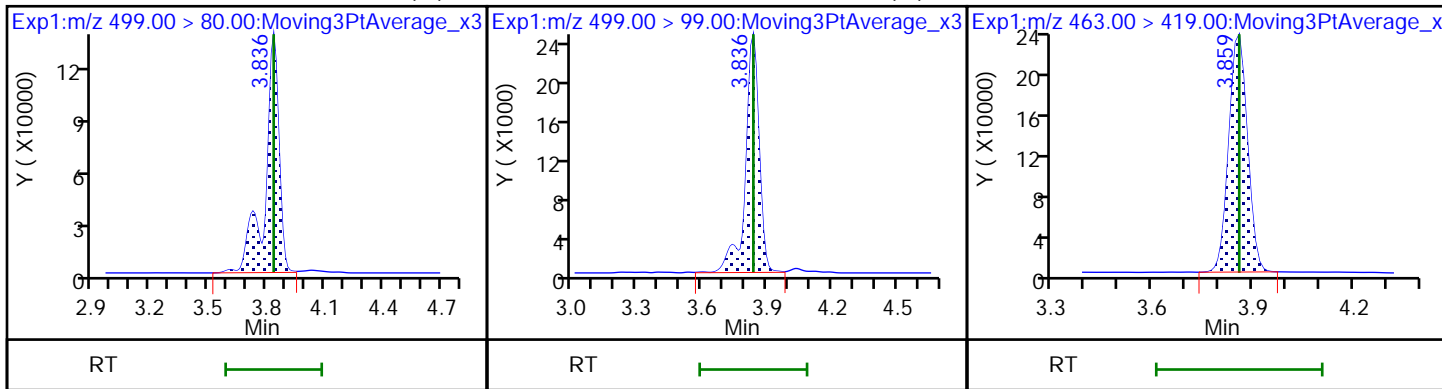
13 1H,1H,2H,2H-perfluorooctanesulfo D 14 13C4 PFOA (M) * 62 13C2 PFOA (M)

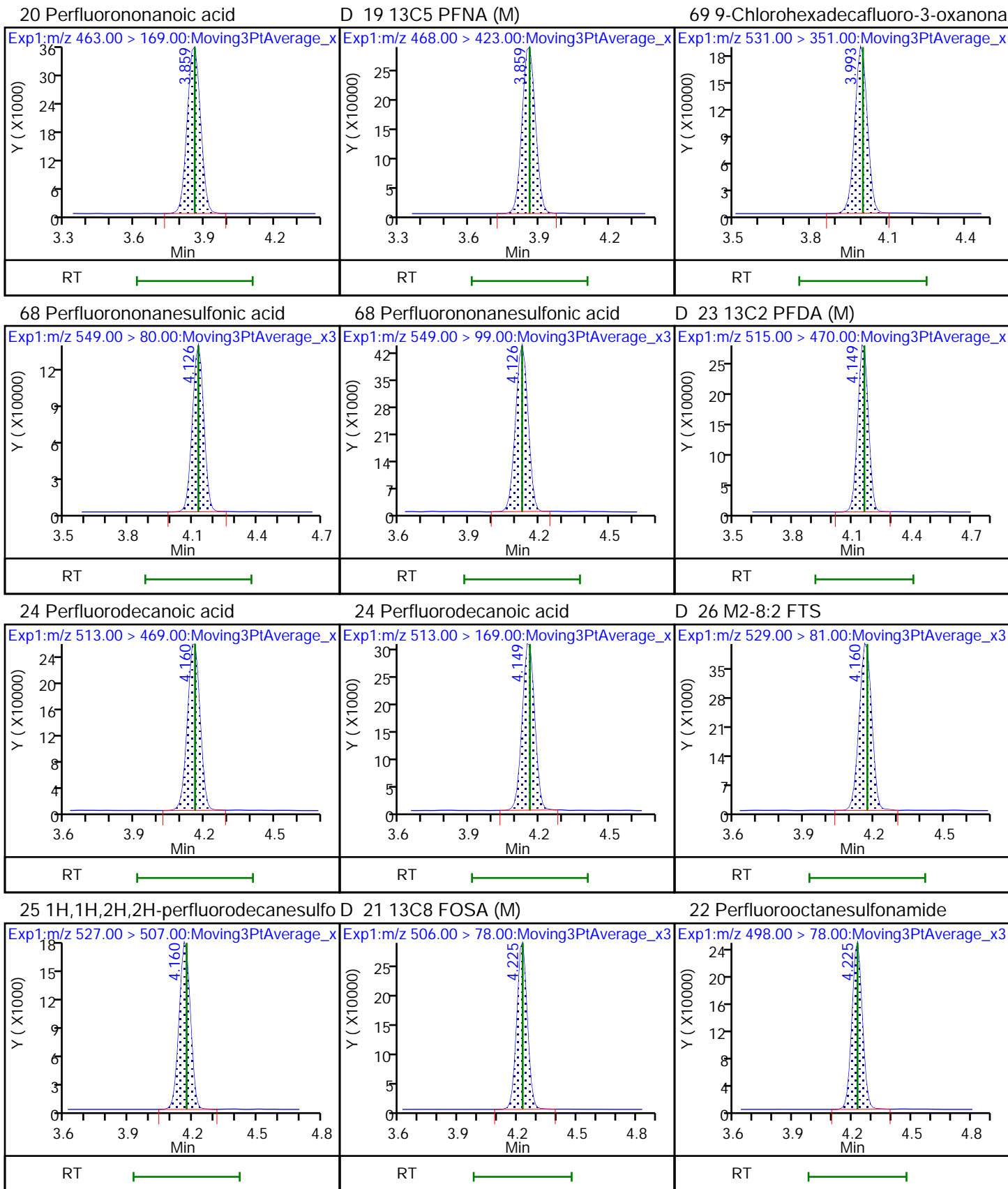


15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) D 18 13C4 PFOS (M)



17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid (M) 20 Perfluorononanoic acid

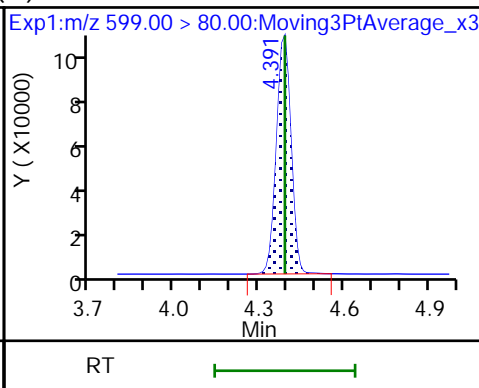
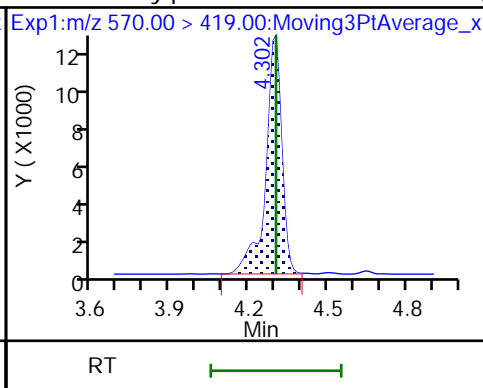
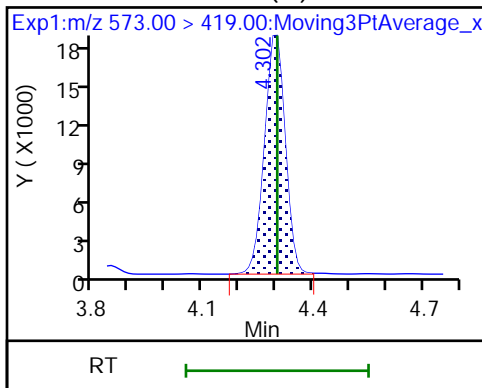




D 27 d3-NMeFOSAA (M)

28 N-methylperfluorooctanesulfonami (M)

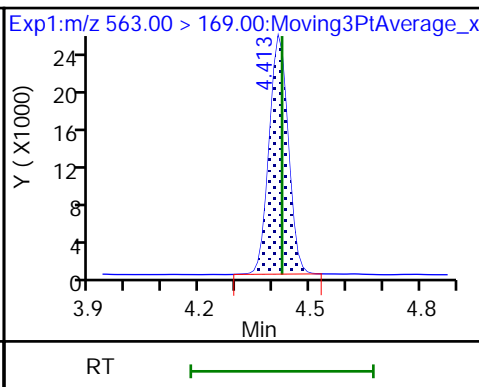
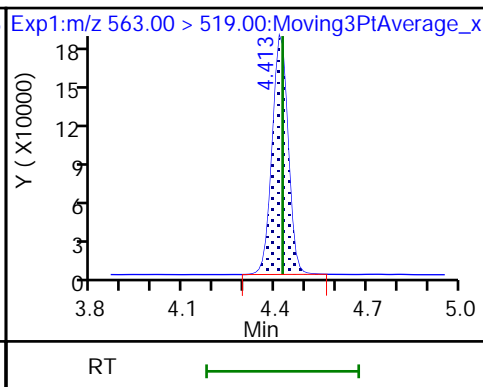
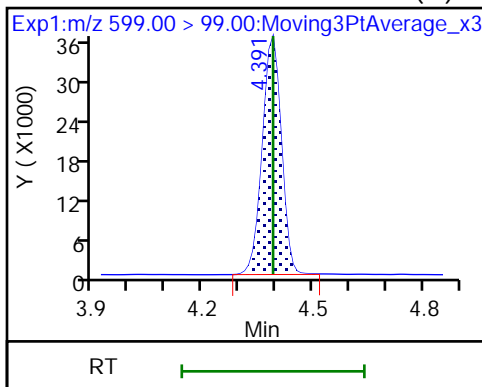
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

31 Perfluoroundecanoic acid

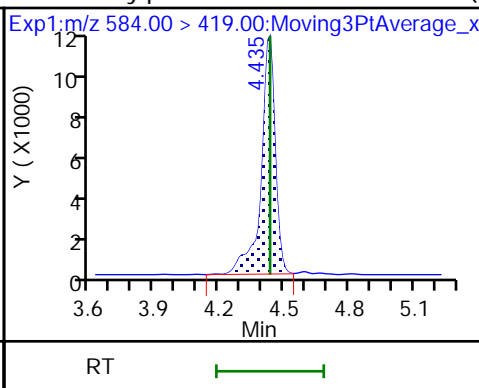
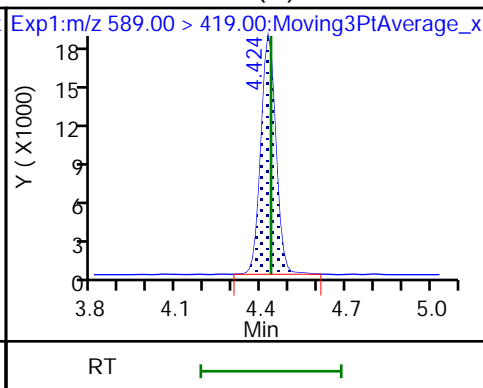
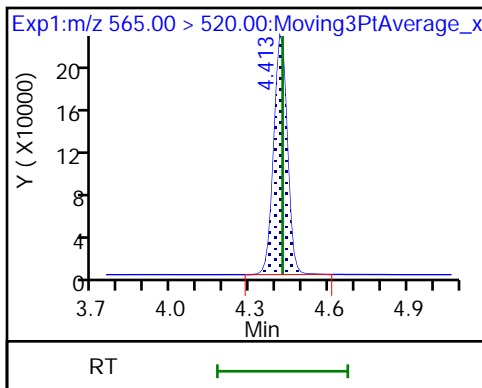
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA (M)

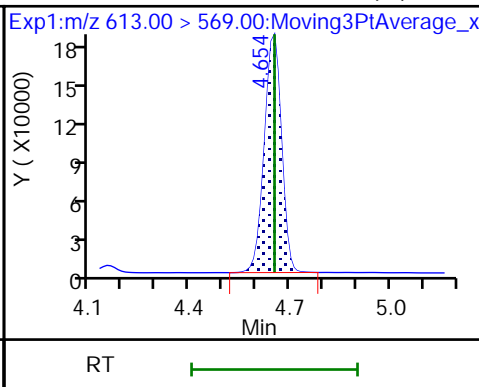
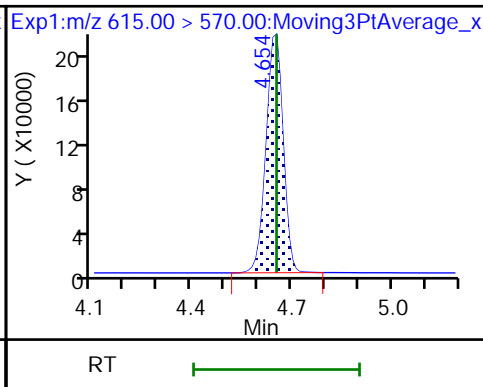
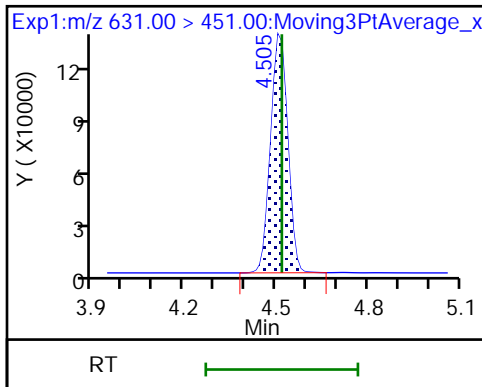
33 N-ethylperfluorooctanesulfonamid (M)

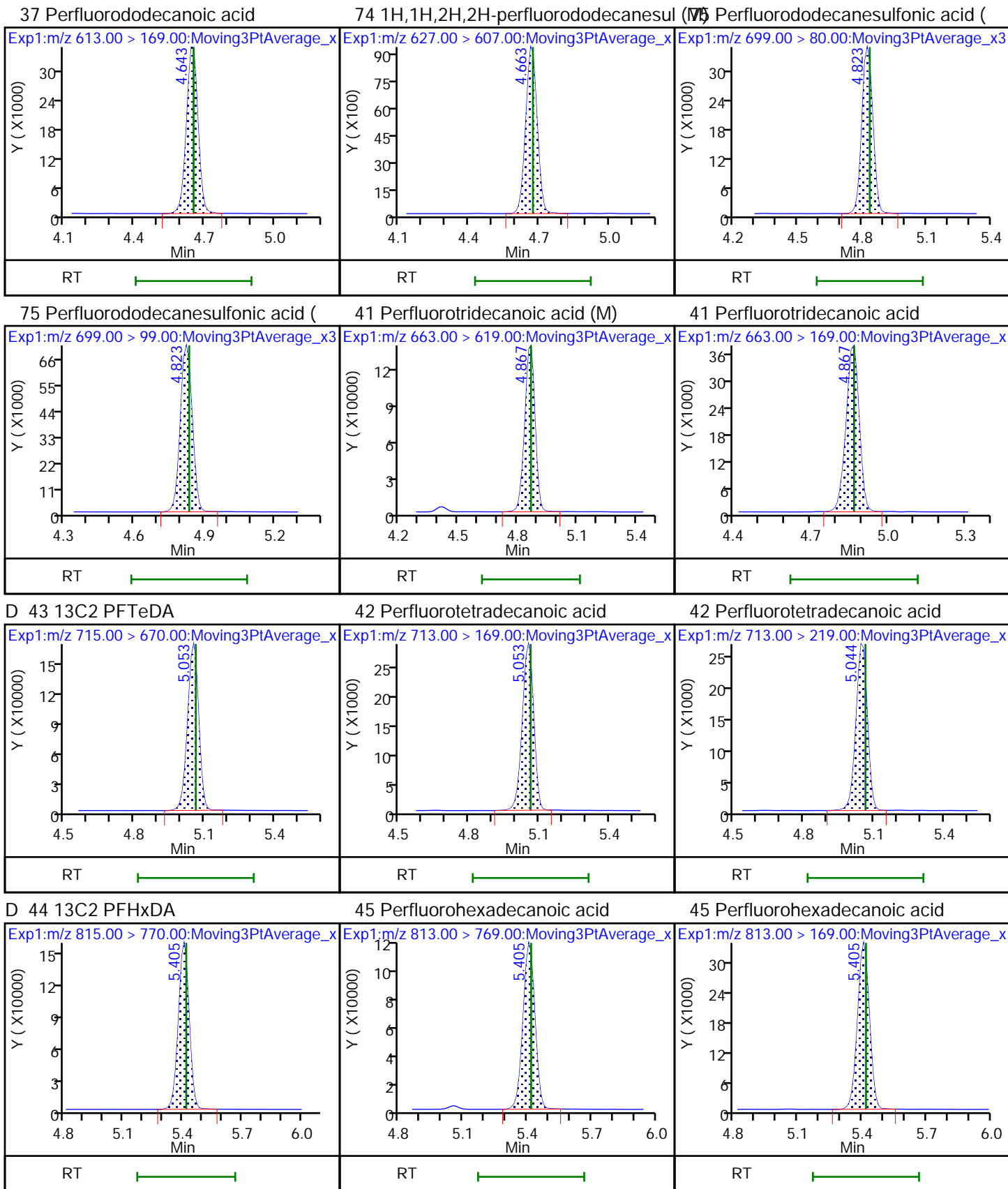


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

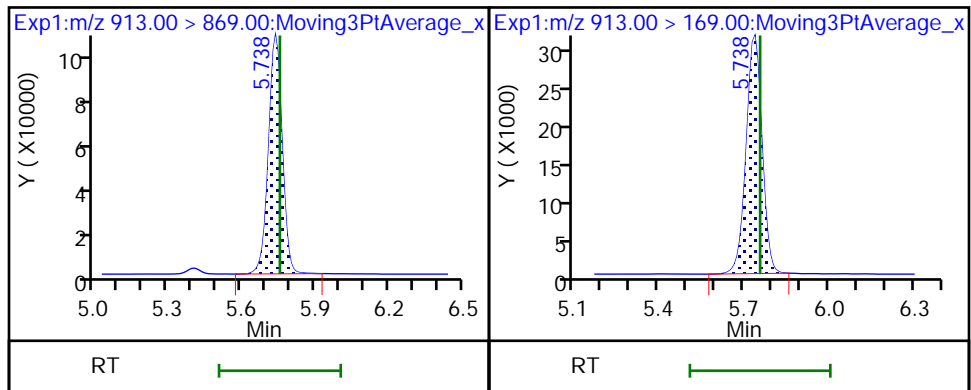
37 Perfluorododecanoic acid (M)





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

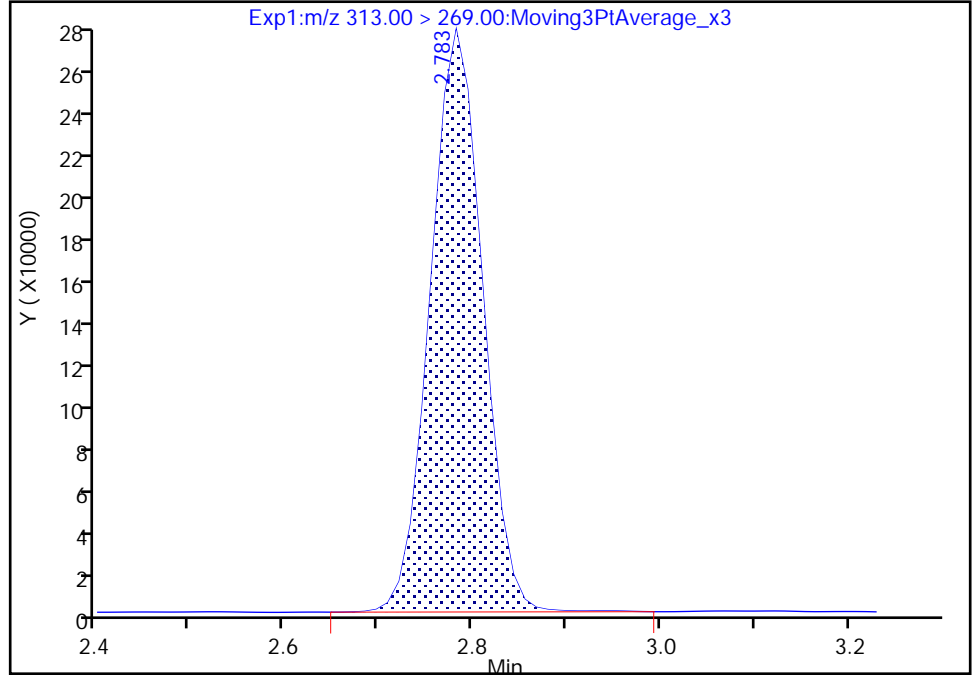
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

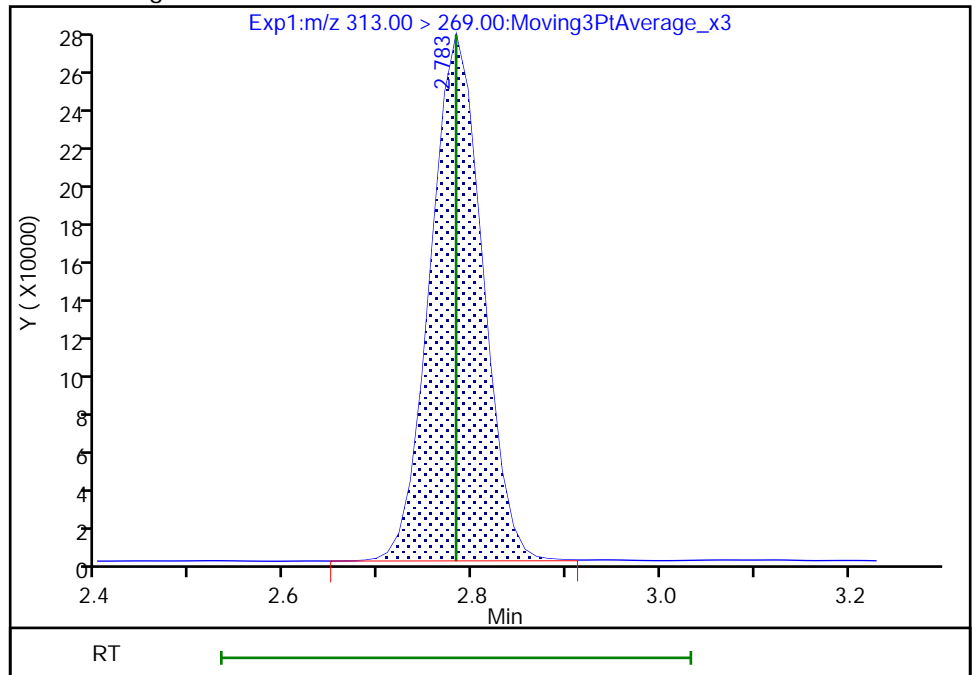
RT: 2.78
Area: 1060001
Amount: 1.053351
Amount Units: ng/ml

Processing Integration Results



RT: 2.78
Area: 1058608
Amount: 1.051967
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

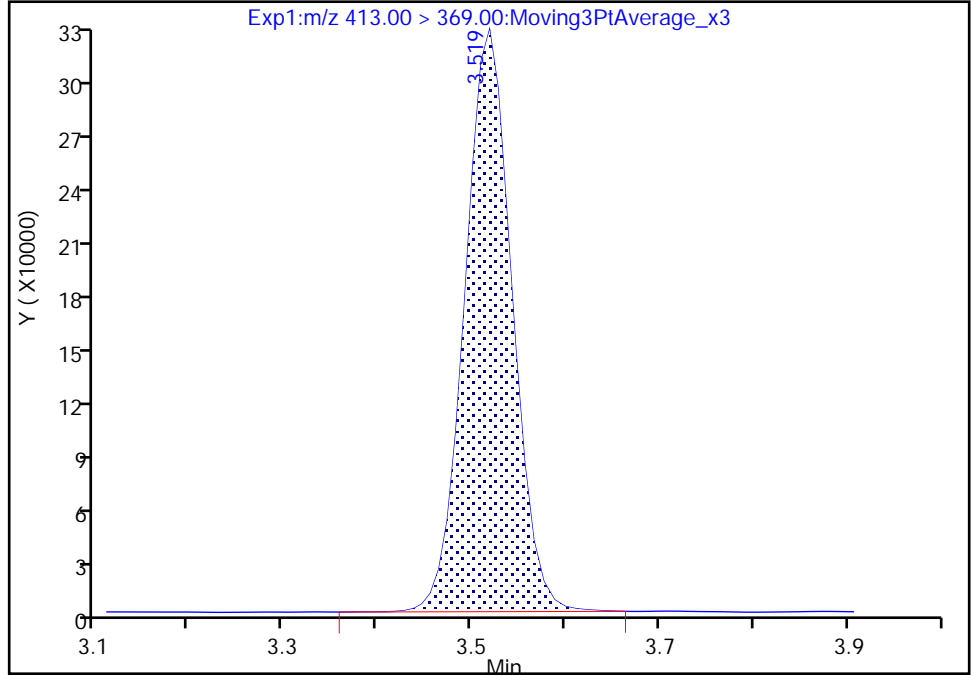
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

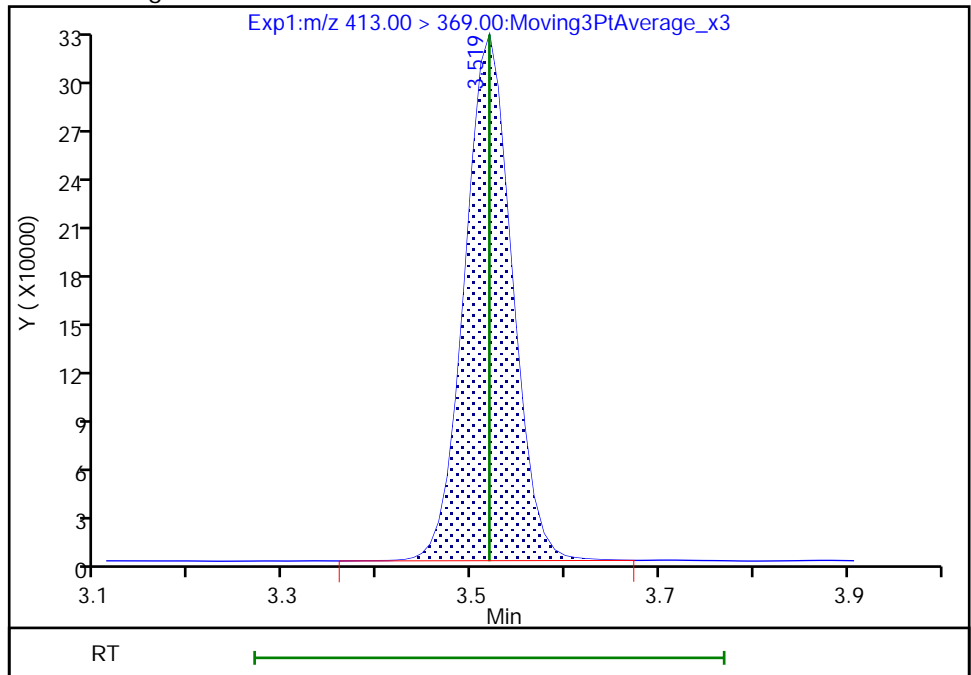
RT: 3.52
Area: 1133247
Amount: 1.098794
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1133920
Amount: 1.099447
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:18:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 729 of 761

Eurofins TestAmerica, Burlington

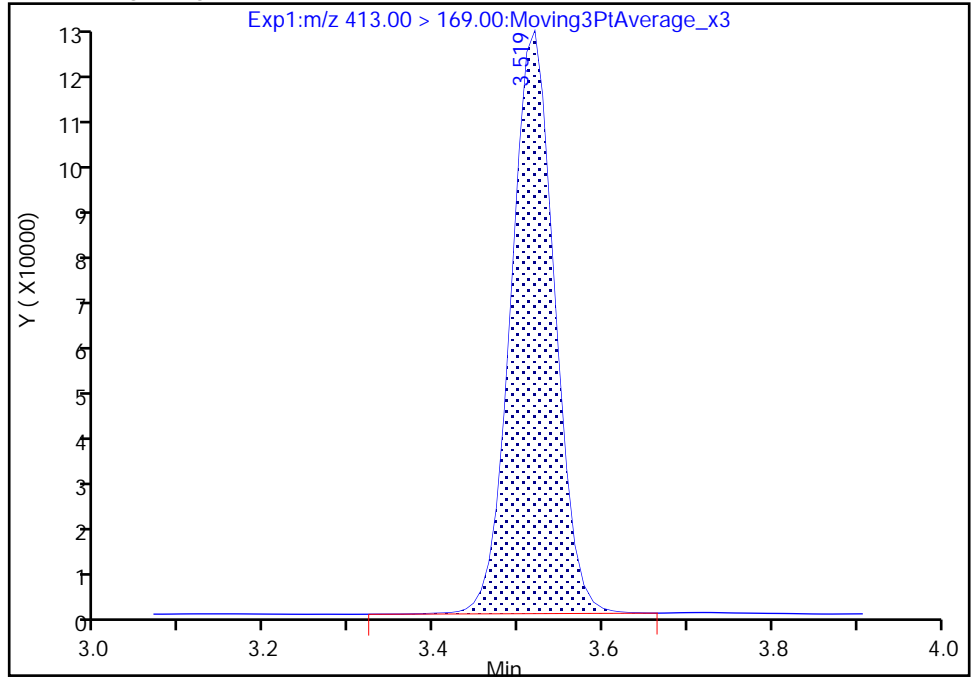
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

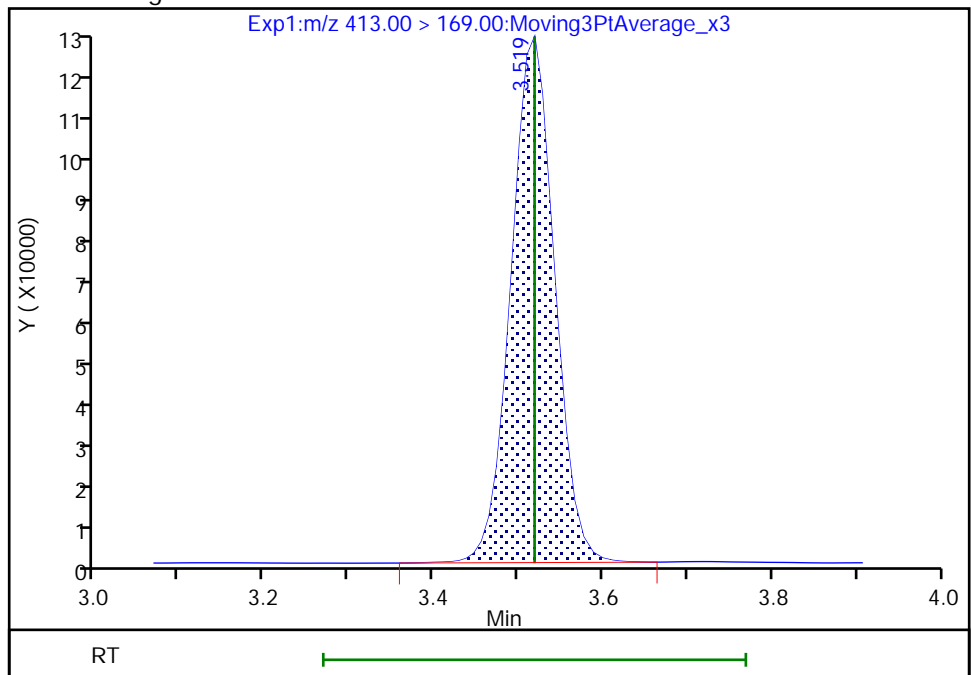
RT: 3.52
Area: 436083
Amount: 1.098794
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
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Amount: 1.099447
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitkw, 24-May-2021 09:19:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

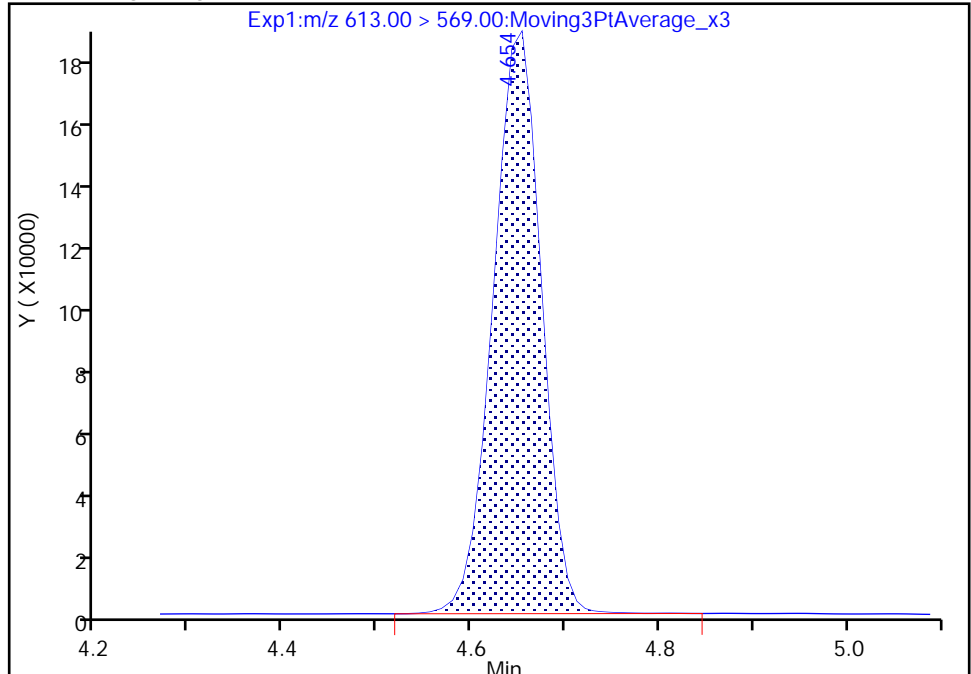
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

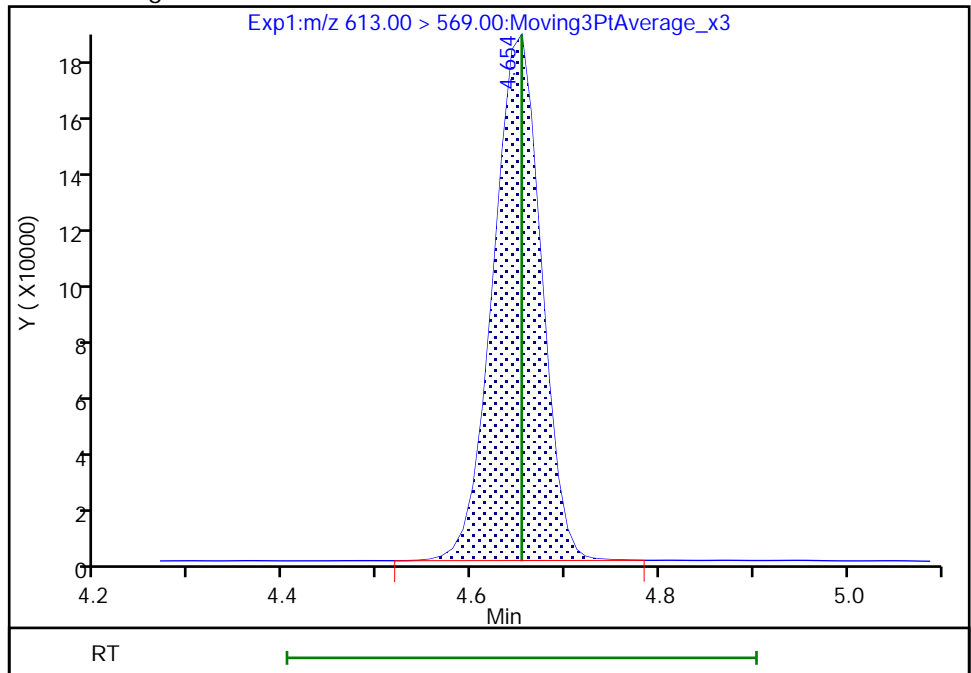
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Amount: 1.076552
Amount Units: ng/ml

Processing Integration Results



RT: 4.65
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Amount: 1.075542
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:21:51
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

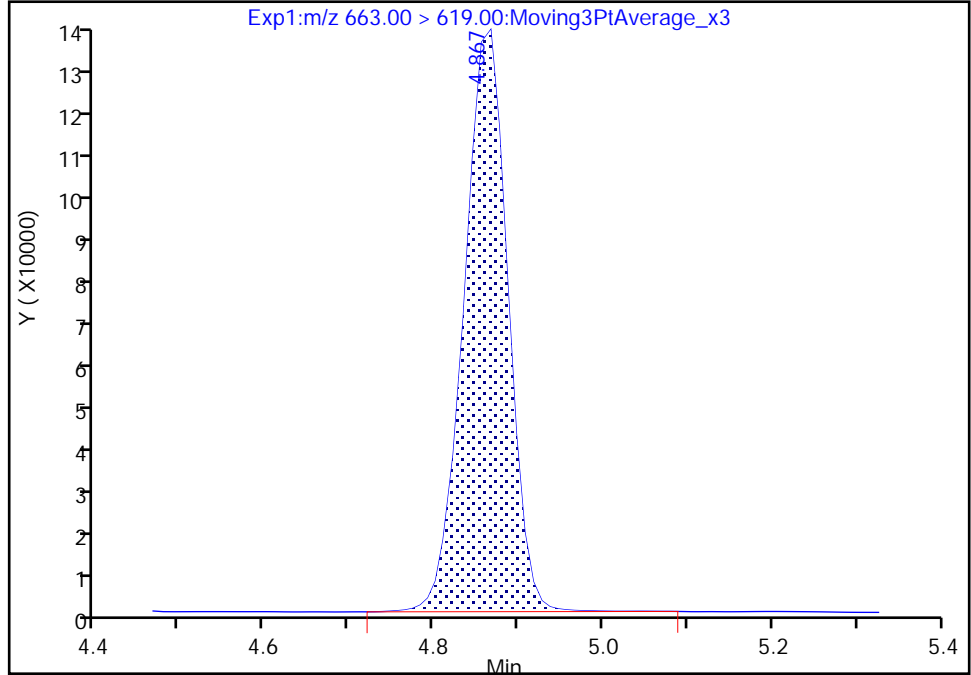
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

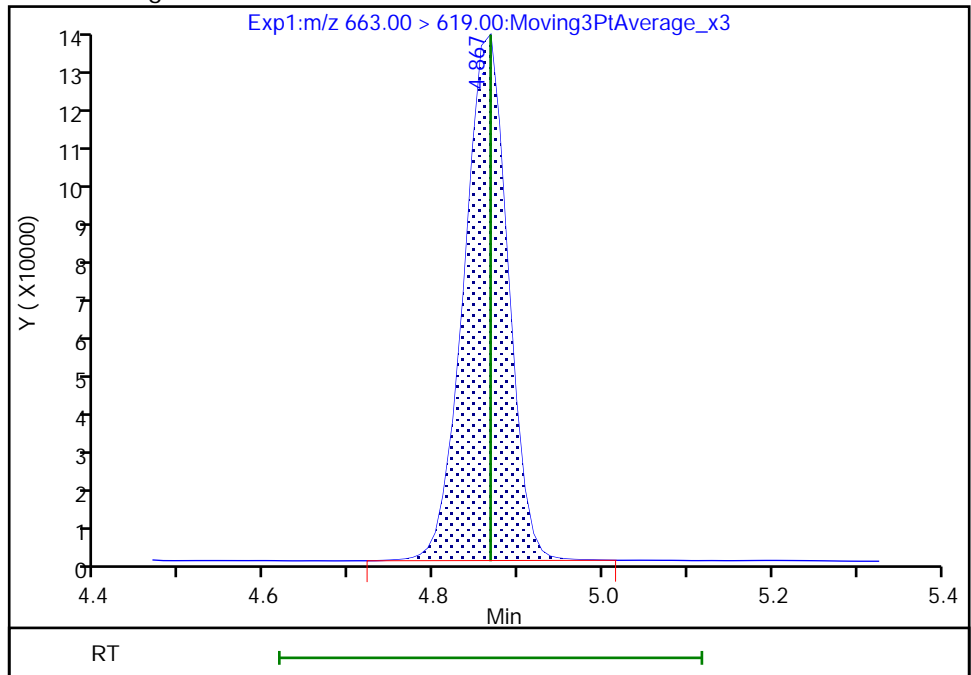
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Area: 495763
Amount: 1.027936
Amount Units: ng/ml

Processing Integration Results



RT: 4.87
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Amount: 1.026760
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

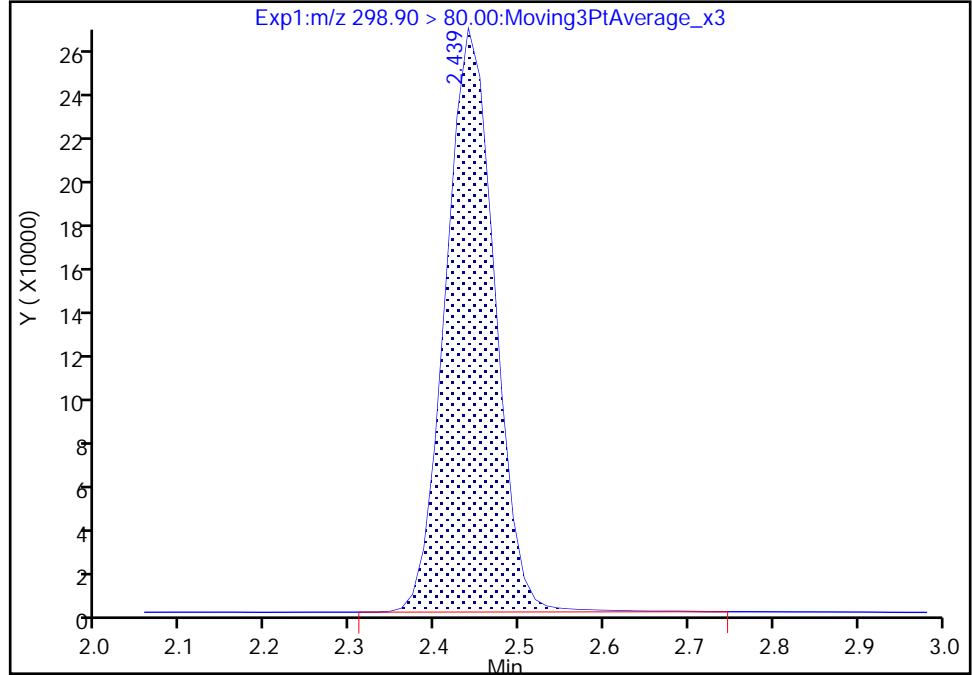
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Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

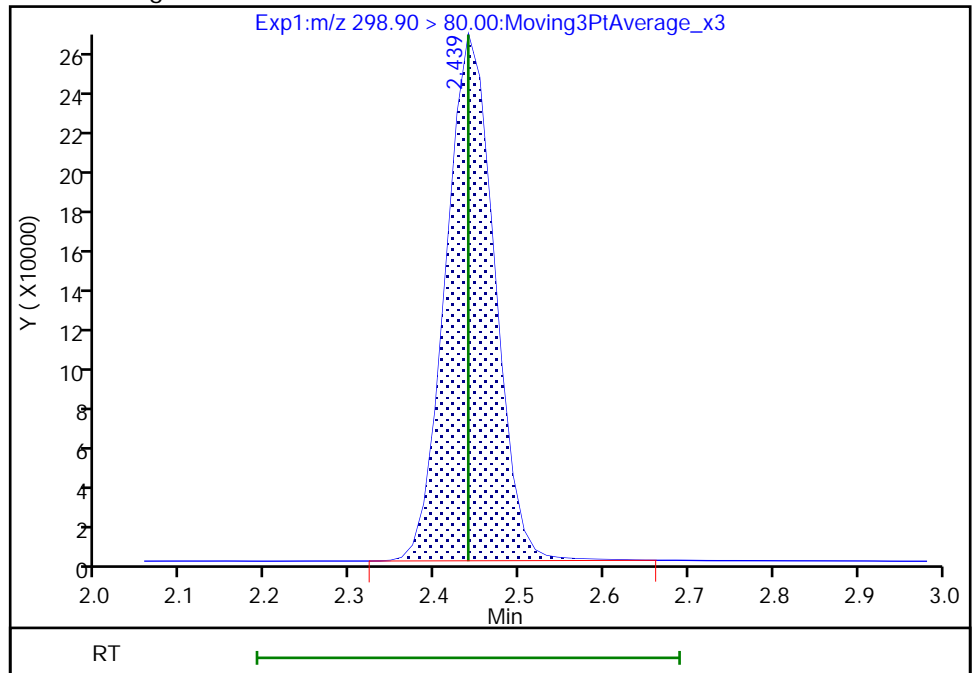
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Amount: 0.930572
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
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Amount: 0.928115
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:17:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

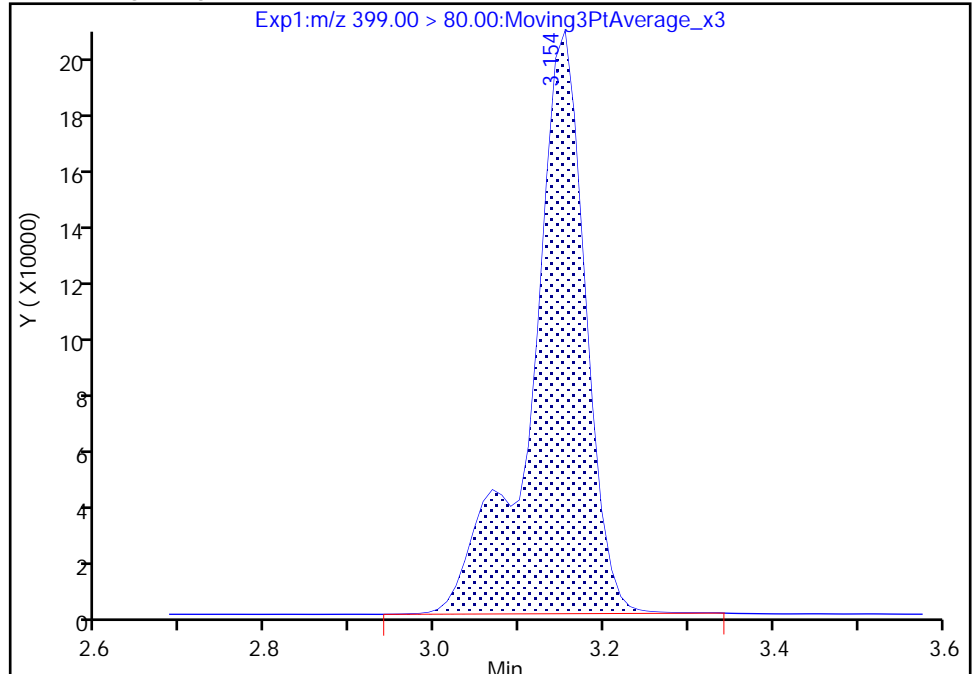
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C04.d
Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

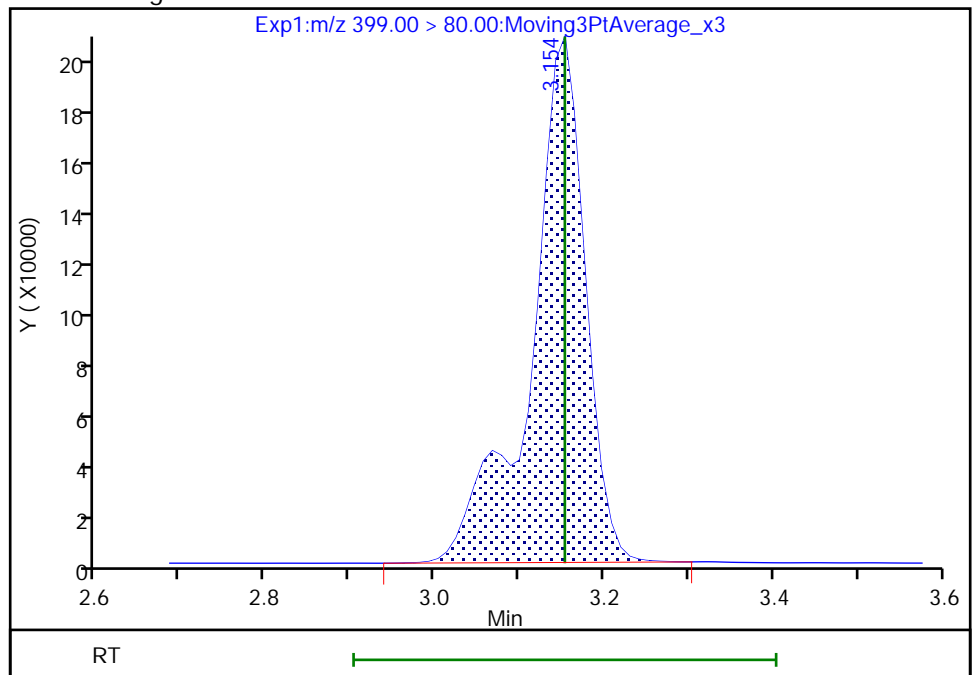
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Amount: 0.981298
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 915609
Amount: 0.979547
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:18:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 734 of 761

Eurofins TestAmerica, Burlington

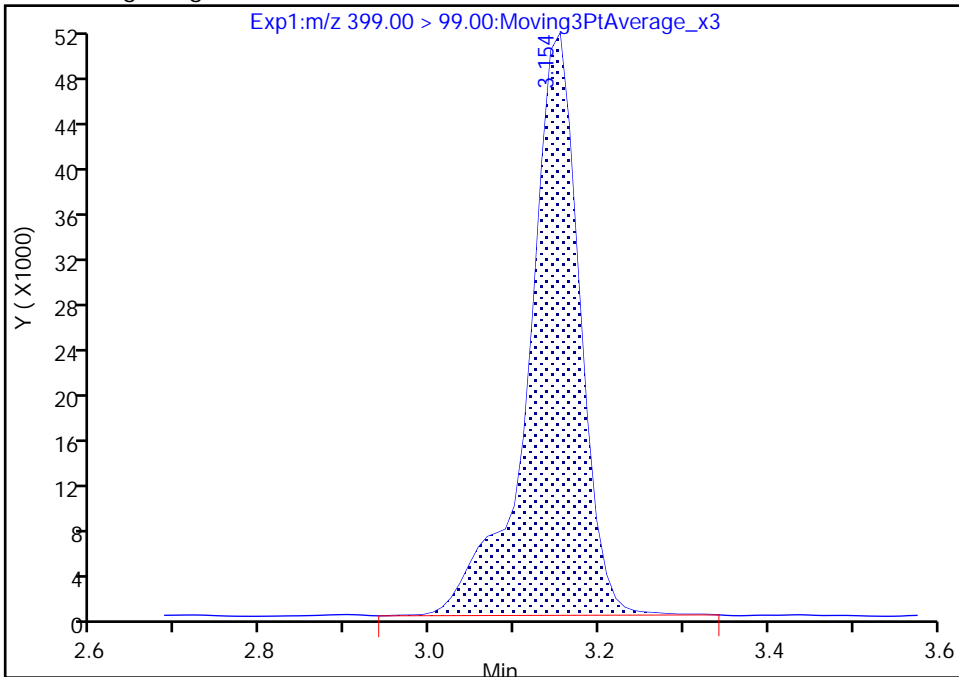
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

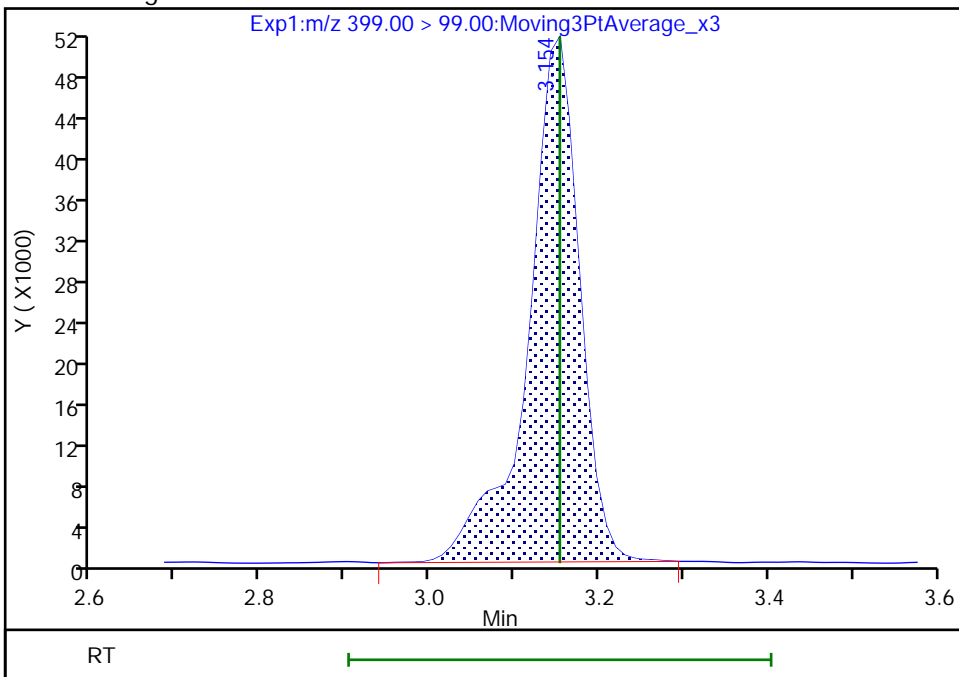
RT: 3.15
Area: 218534
Amount: 0.981298
Amount Units: ng/ml

Processing Integration Results



RT: 3.15
Area: 217798
Amount: 0.979547
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:18:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

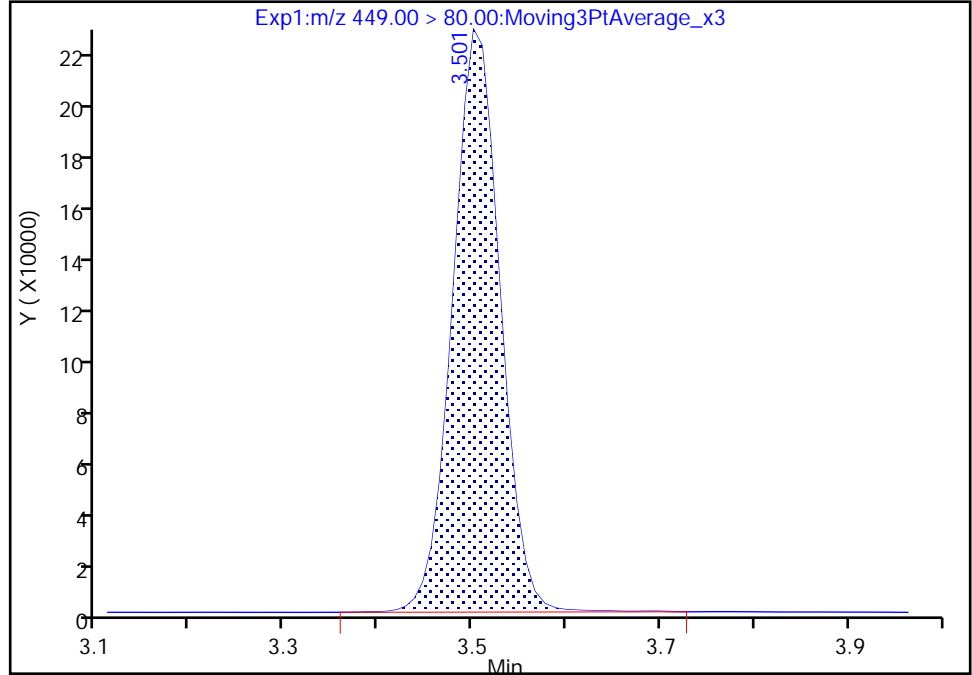
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C04.d
Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

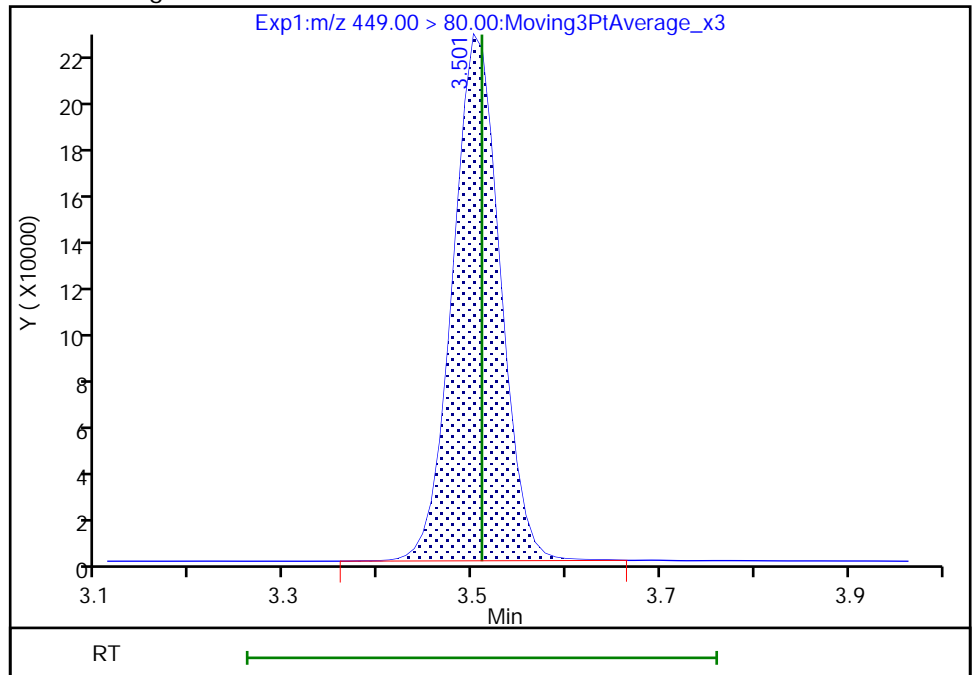
RT: 3.50
Area: 784218
Amount: 0.997715
Amount Units: ng/ml

Processing Integration Results



RT: 3.50
Area: 781943
Amount: 0.994821
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:18:33
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

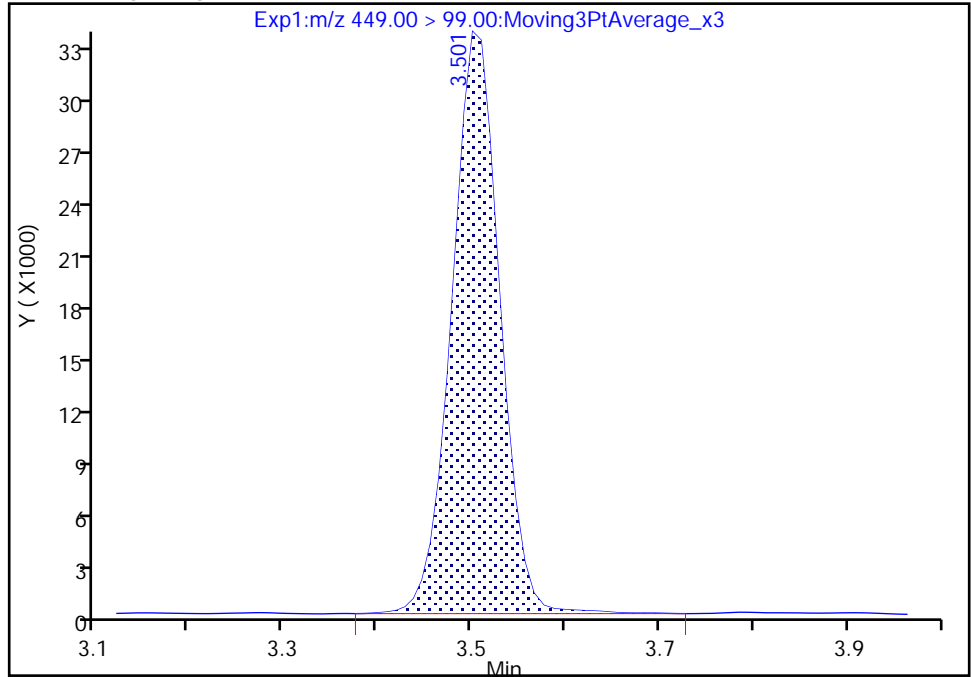
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

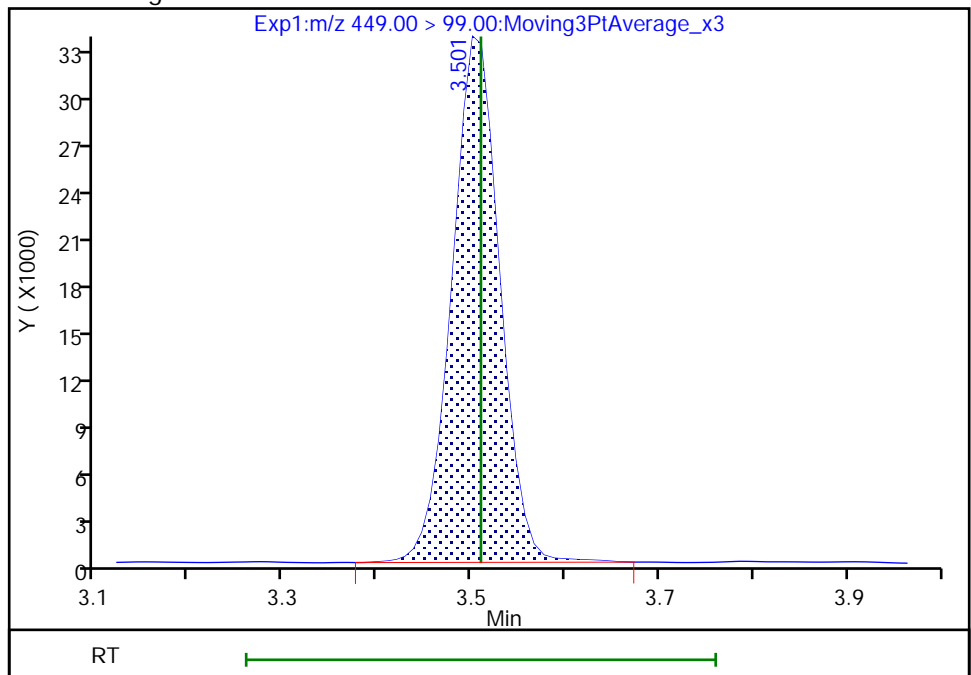
RT: 3.50
Area: 118634
Amount: 0.997715
Amount Units: ng/ml

Processing Integration Results



RT: 3.50
Area: 118298
Amount: 0.994821
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:18:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

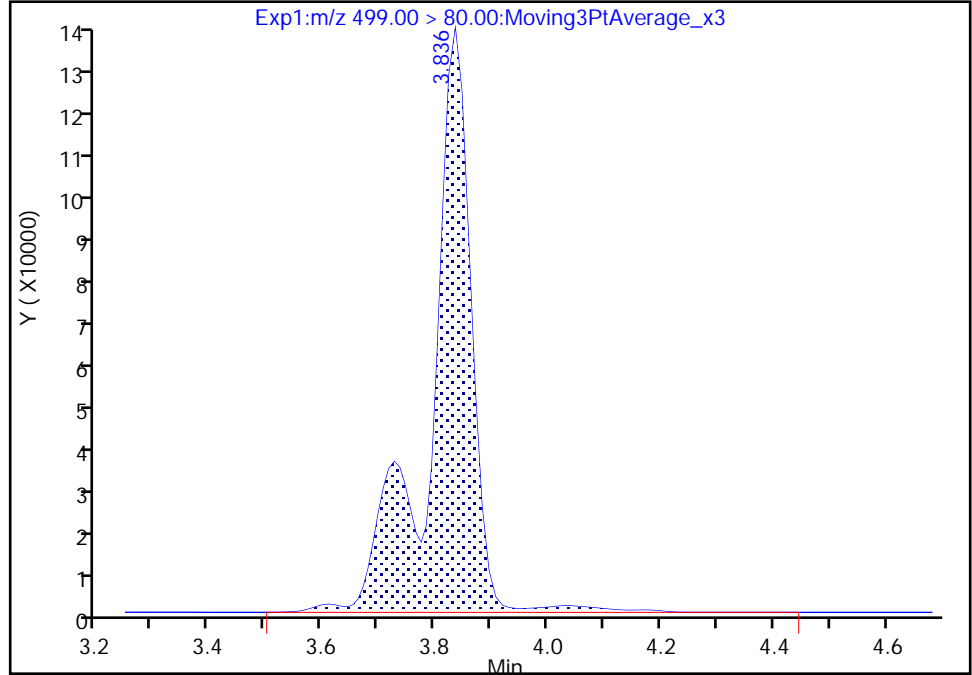
Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C04.d
Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

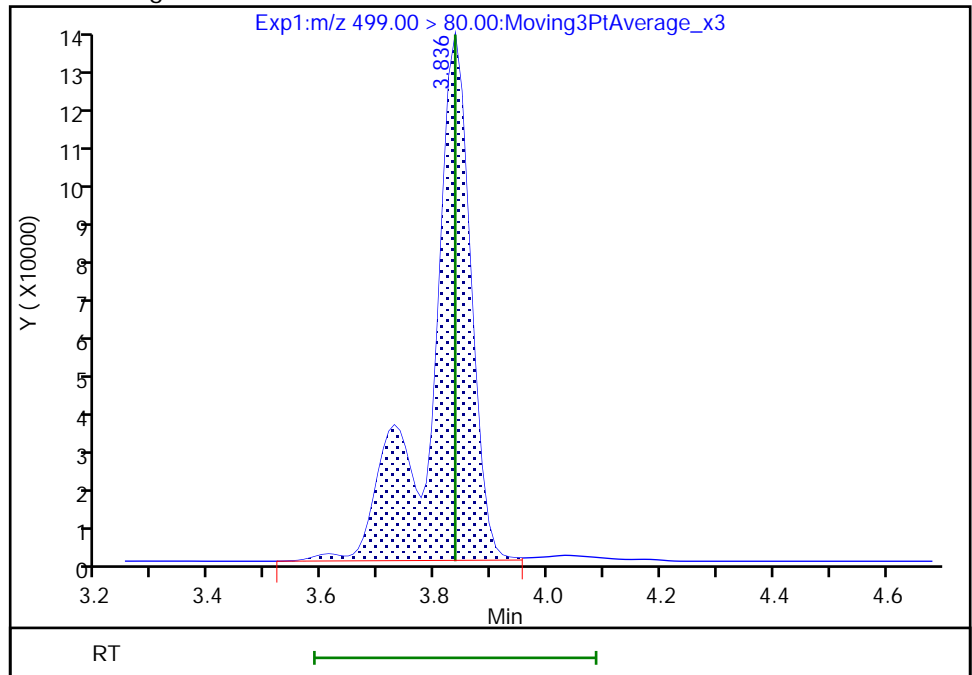
RT: 3.84
Area: 675226
Amount: 0.991192
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 657848
Amount: 0.965682
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

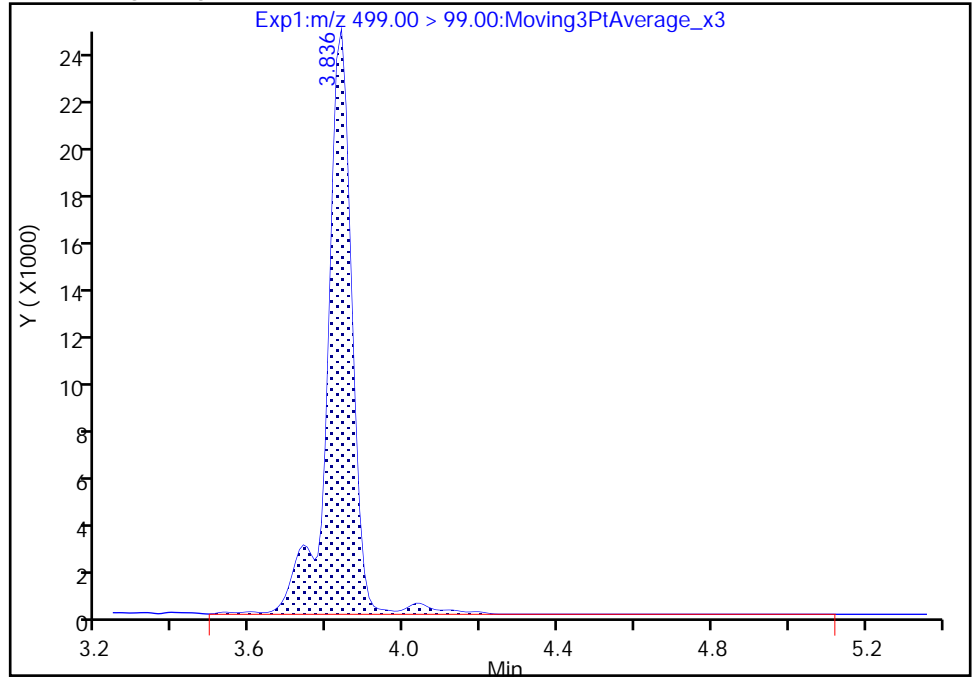
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

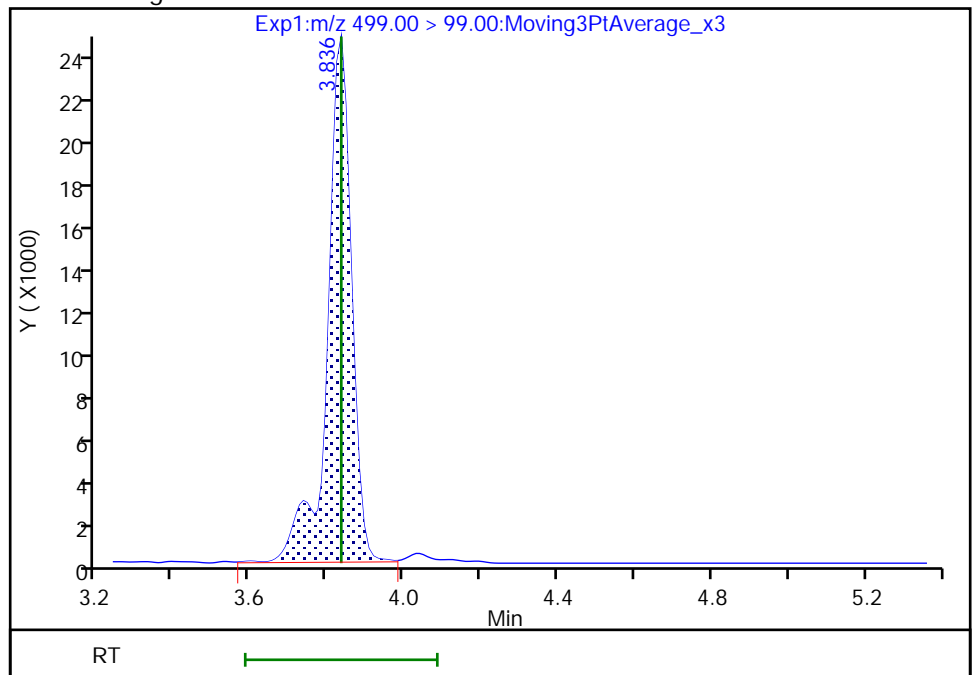
RT: 3.84
Area: 111743
Amount: 0.991192
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 107679
Amount: 0.965682
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-May-2021 11:48:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

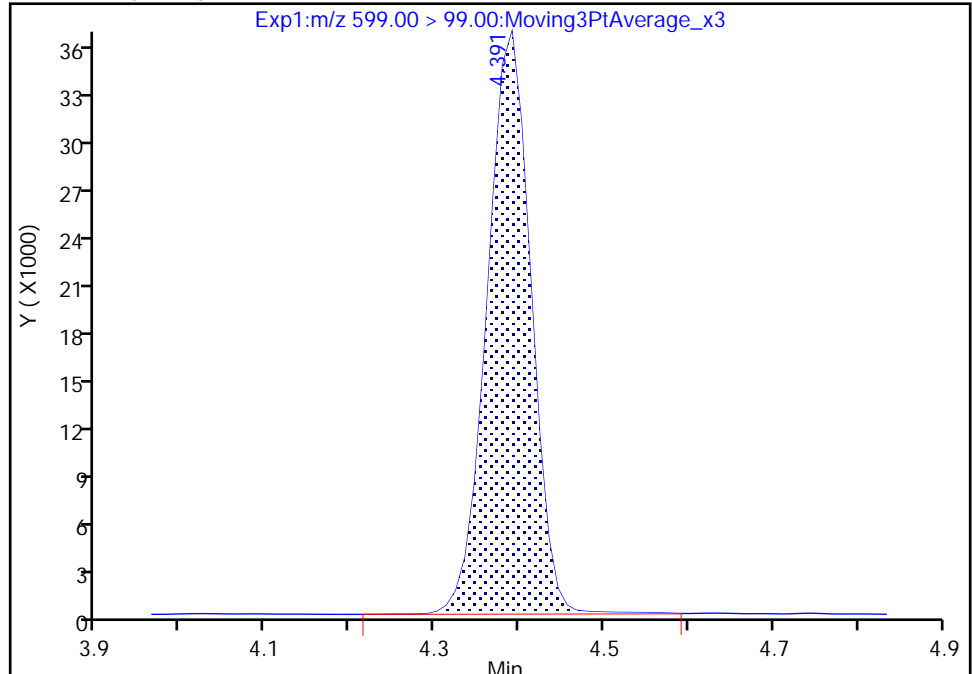
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

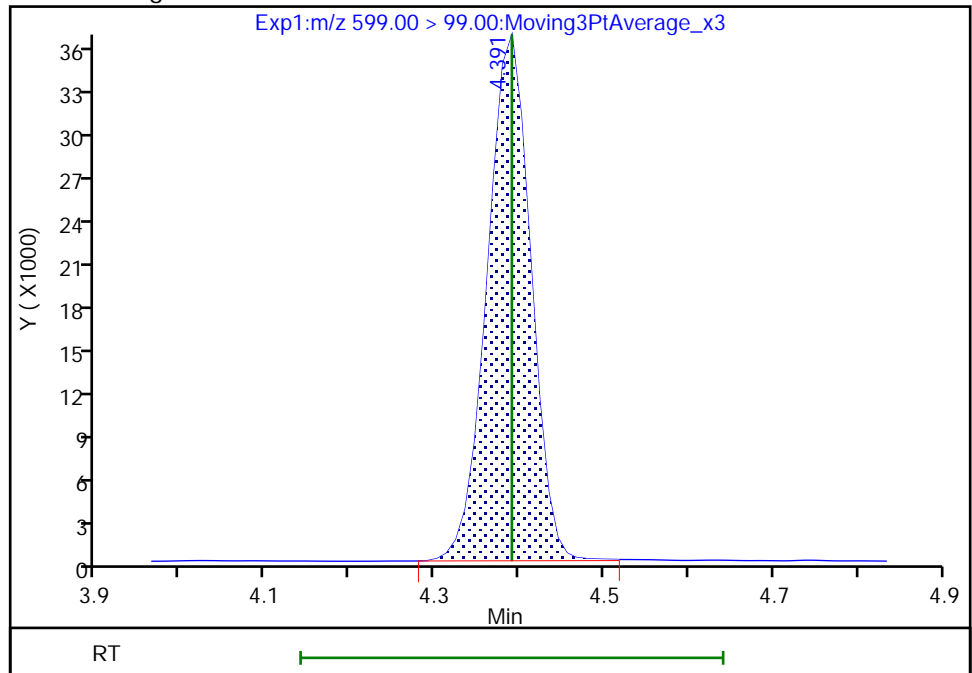
RT: 4.39
Area: 132543
Amount: 0.965278
Amount Units: ng/ml

Processing Integration Results



RT: 4.39
Area: 131982
Amount: 0.965278
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:21:16
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

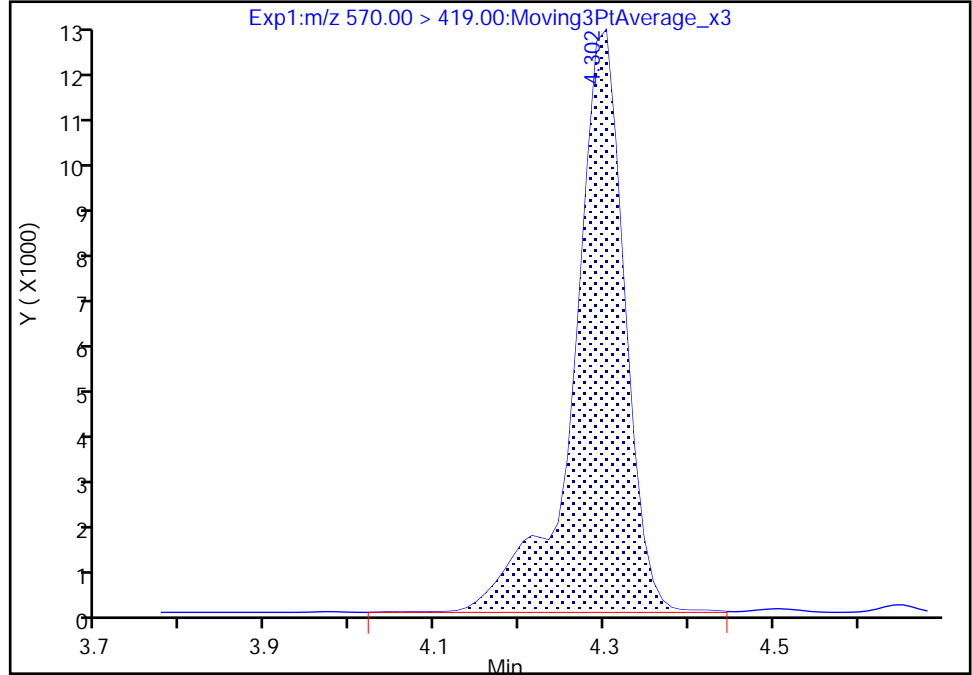
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

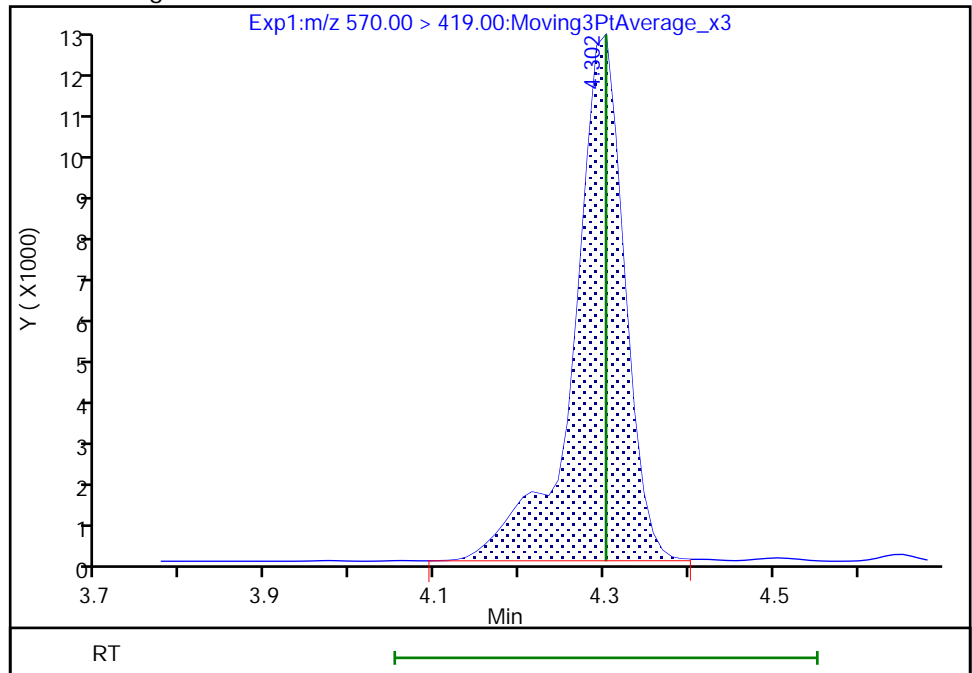
RT: 4.30
Area: 54497
Amount: 1.093334
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 54138
Amount: 1.086131
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:21:00
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

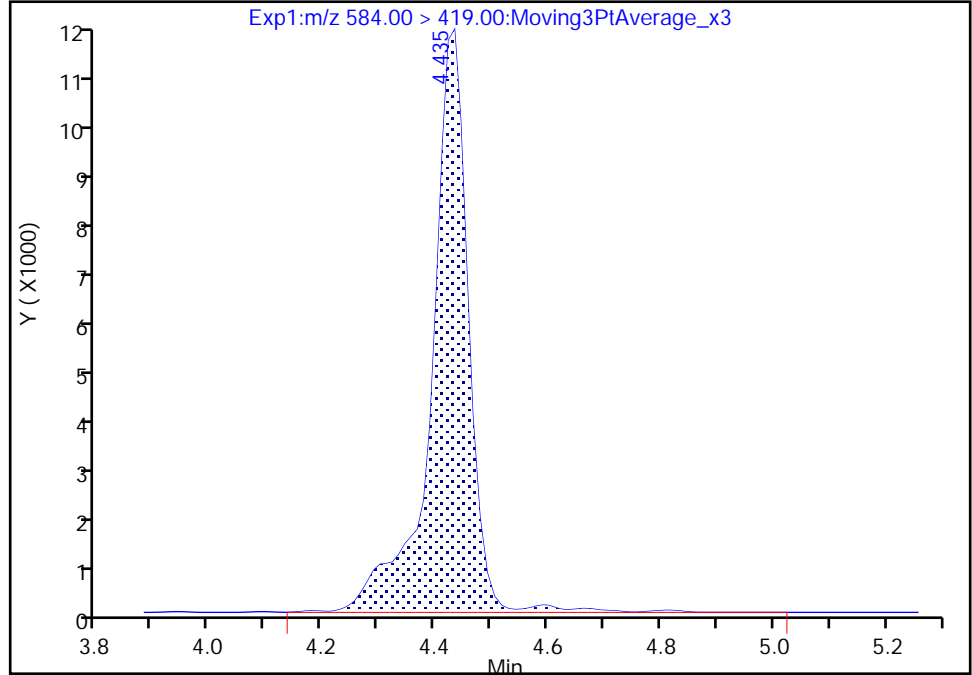
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

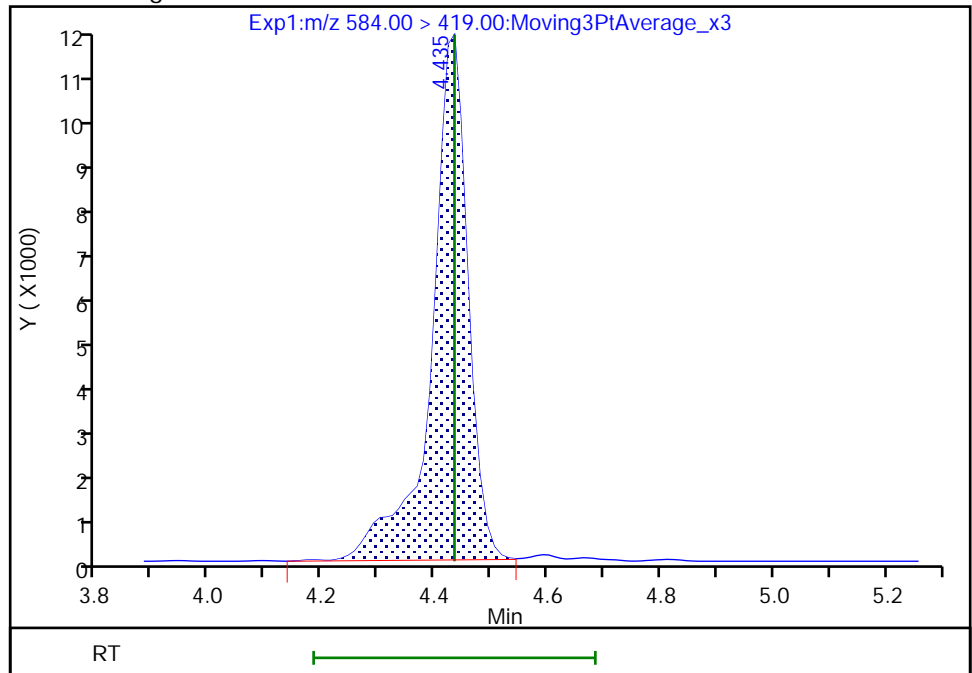
RT: 4.43
Area: 53032
Amount: 1.125887
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 51575
Amount: 1.094652
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:21:36
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

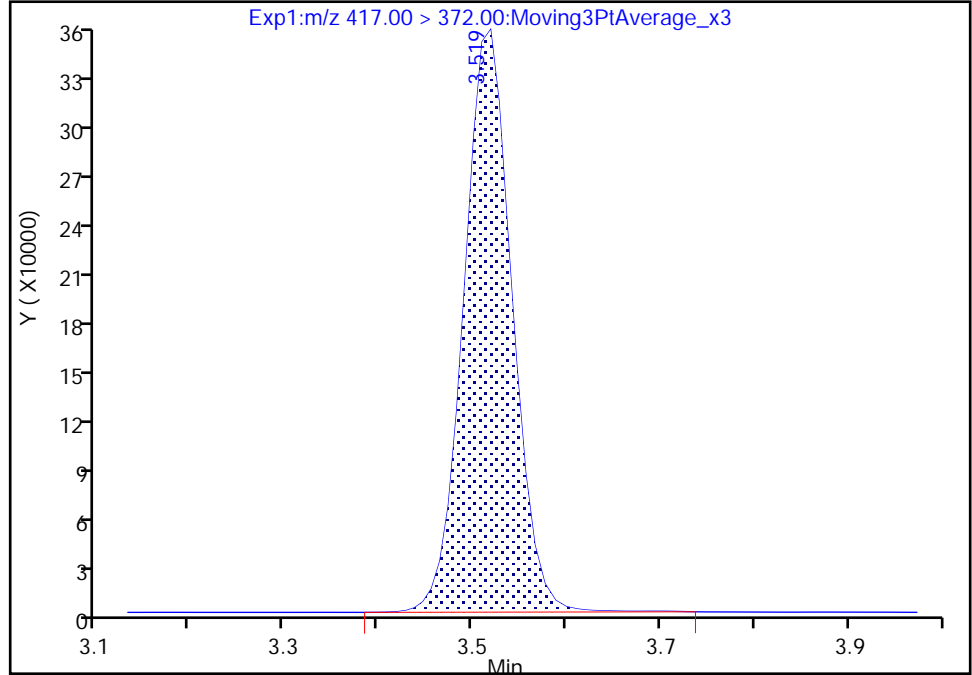
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 14 13C4 PFOA, CAS: STL00990

Signal: 1

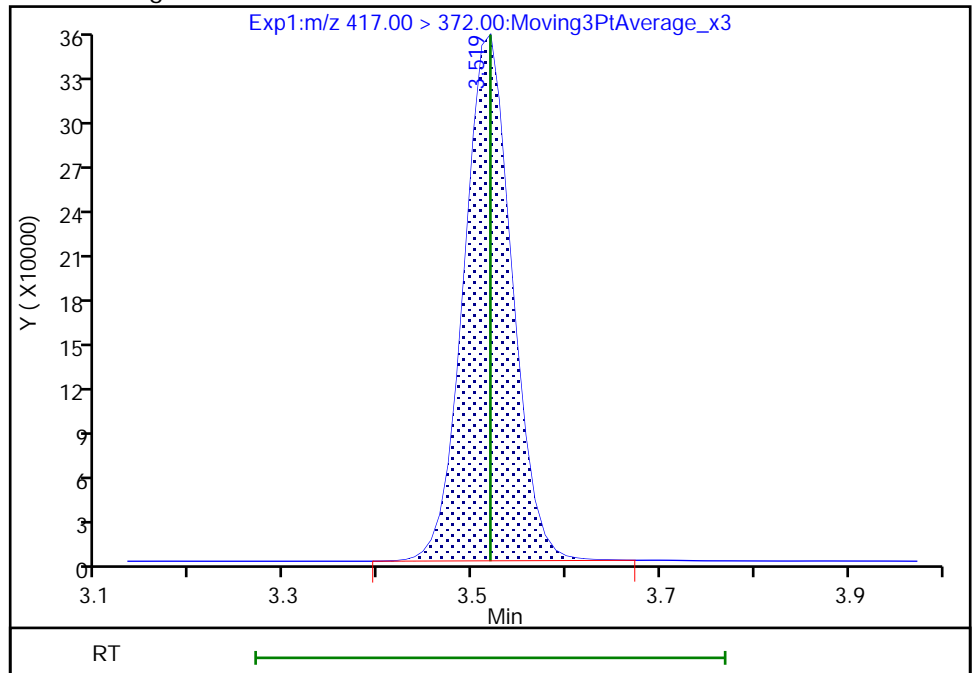
RT: 3.52
Area: 1258986
Amount: 1.259862
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1255040
Amount: 1.258135
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:03:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

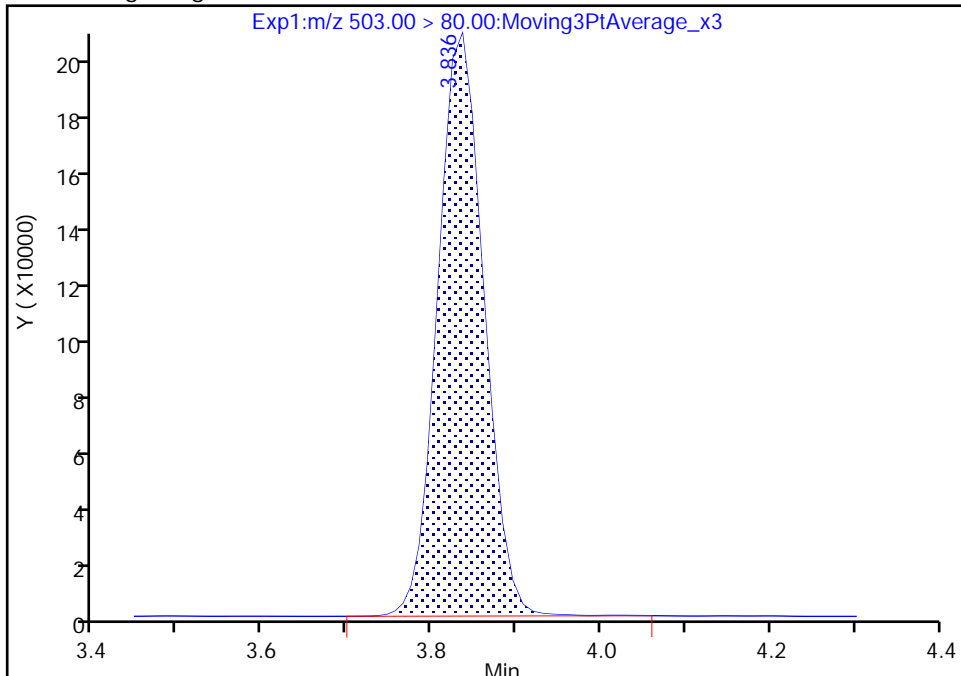
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 18 13C4 PFOS, CAS: STL00991

Signal: 1

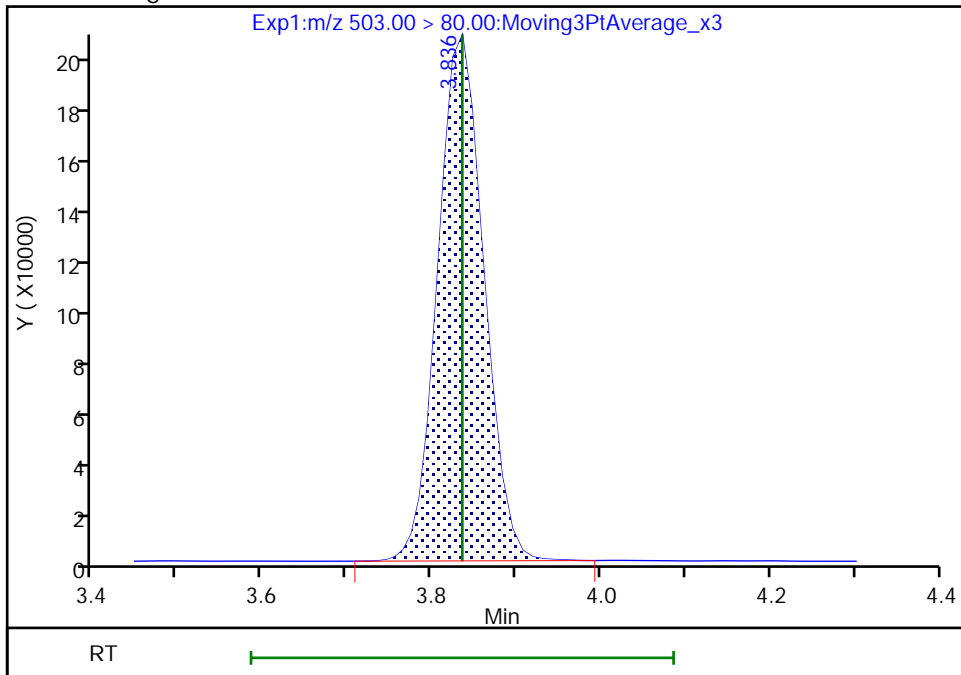
RT: 3.84
Area: 757061
Amount: 1.189011
Amount Units: ng/ml

Processing Integration Results



RT: 3.84
Area: 756124
Amount: 1.189640
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:03:52
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

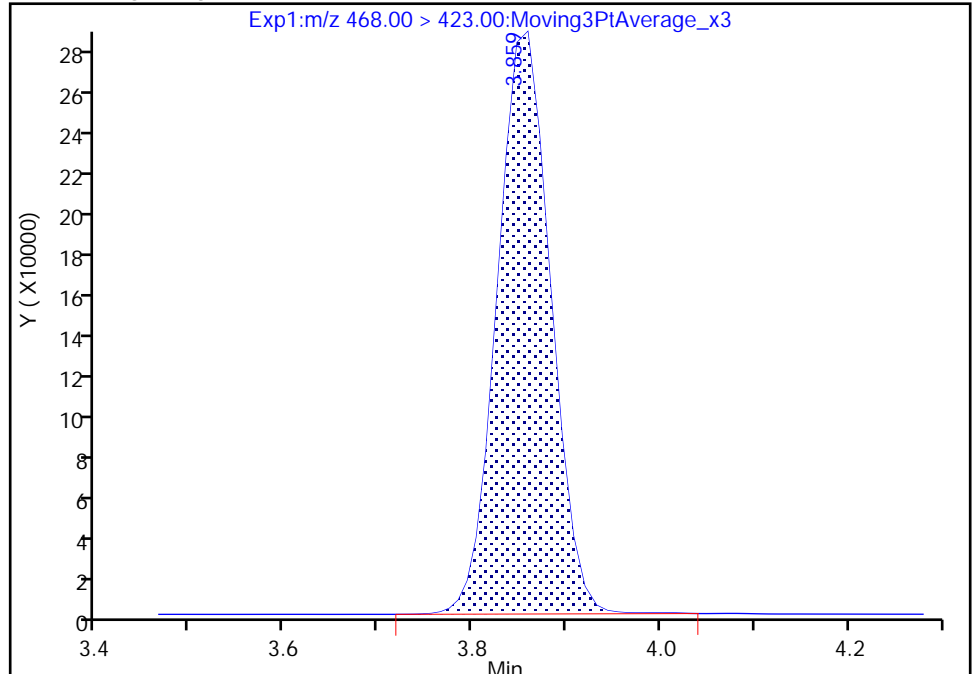
Eurofins TestAmerica, Burlington

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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 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

D 19 13C5 PFNA, CAS: STL00995
Signal: 1

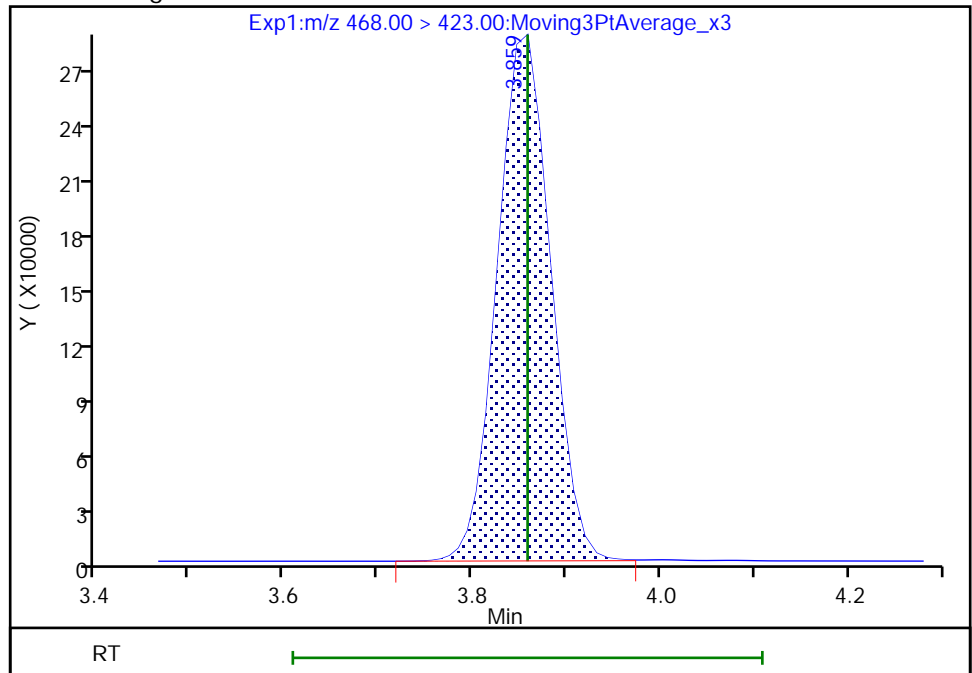
RT: 3.86
Area: 1133264
Amount: 1.230825
Amount Units: ng/ml

Processing Integration Results



RT: 3.86
Area: 1132092
Amount: 1.231727
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:04:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 745 of 761

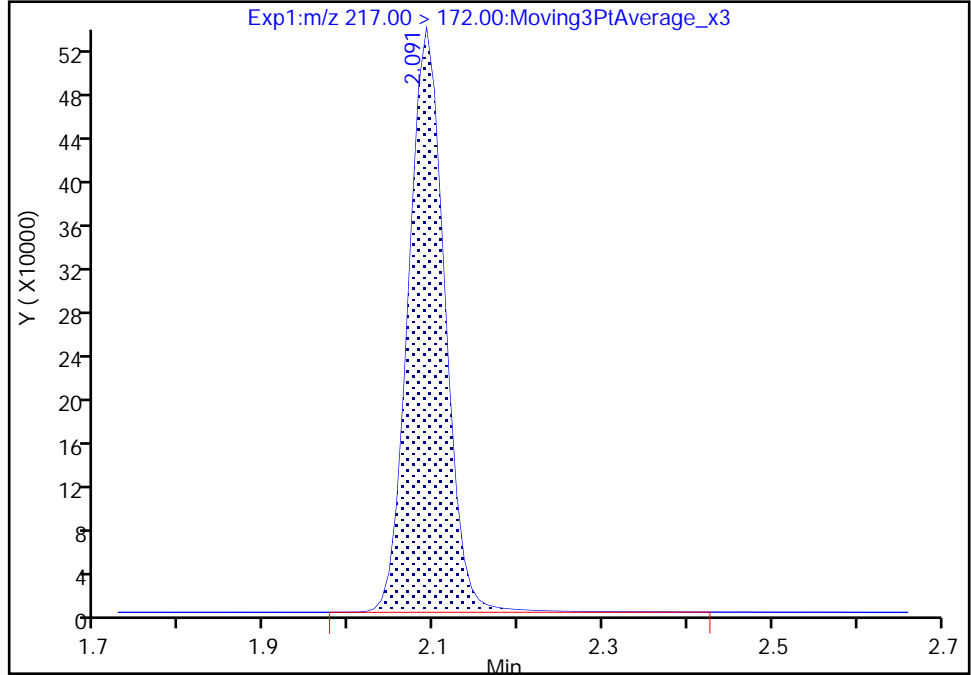
Euofins TestAmerica, Burlington

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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 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

D 1 13C4 PFBA, CAS: STL00992
Signal: 1

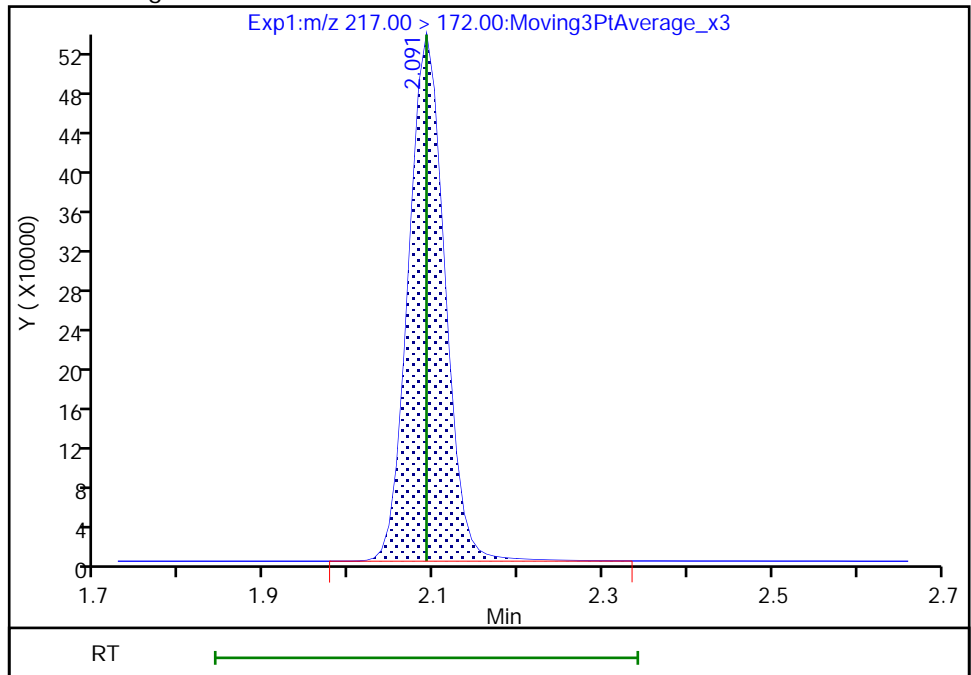
RT: 2.09
Area: 1594176
Amount: 1.273863
Amount Units: ng/ml

Processing Integration Results



RT: 2.09
Area: 1593791
Amount: 1.275808
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:03:02
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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Eurofins TestAmerica, Burlington

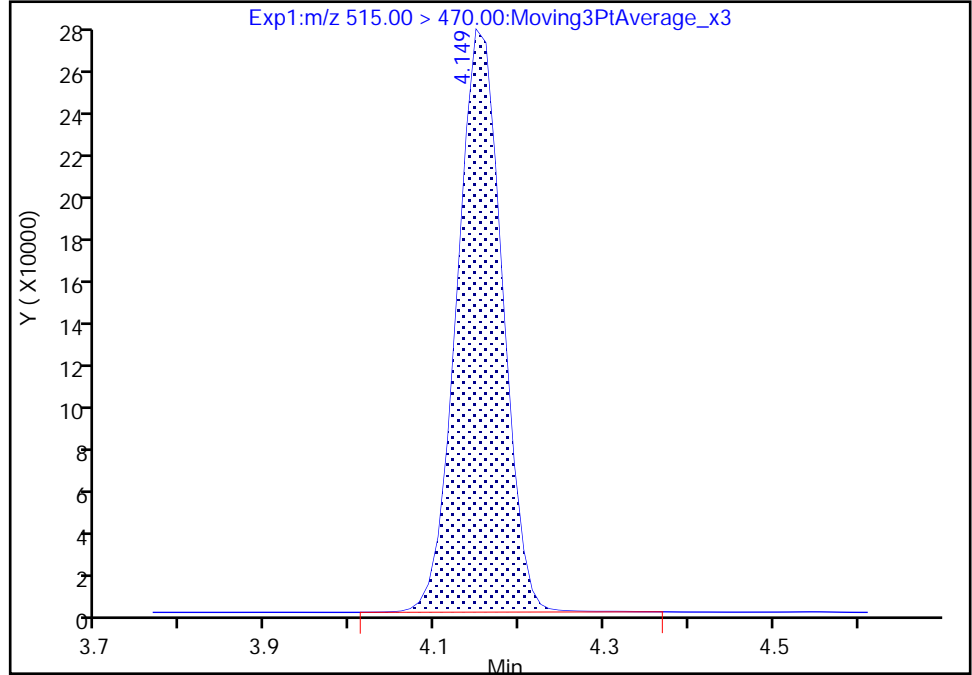
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 23 13C2 PFDA, CAS: STL00996

Signal: 1

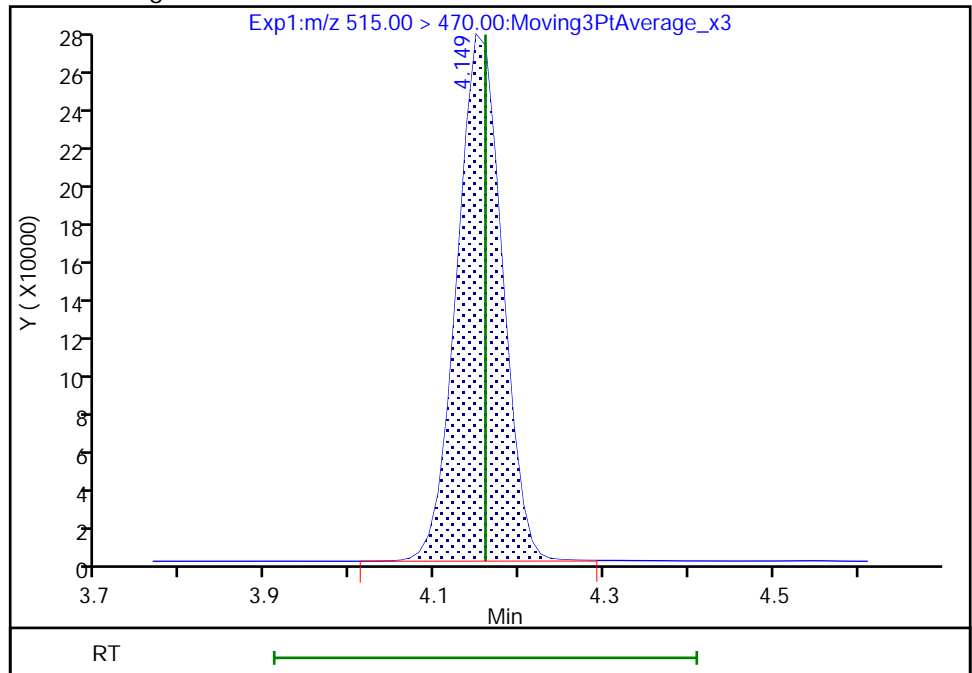
RT: 4.15
Area: 1033606
Amount: 1.280113
Amount Units: ng/ml

Processing Integration Results



RT: 4.15
Area: 1033982
Amount: 1.282844
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:05:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

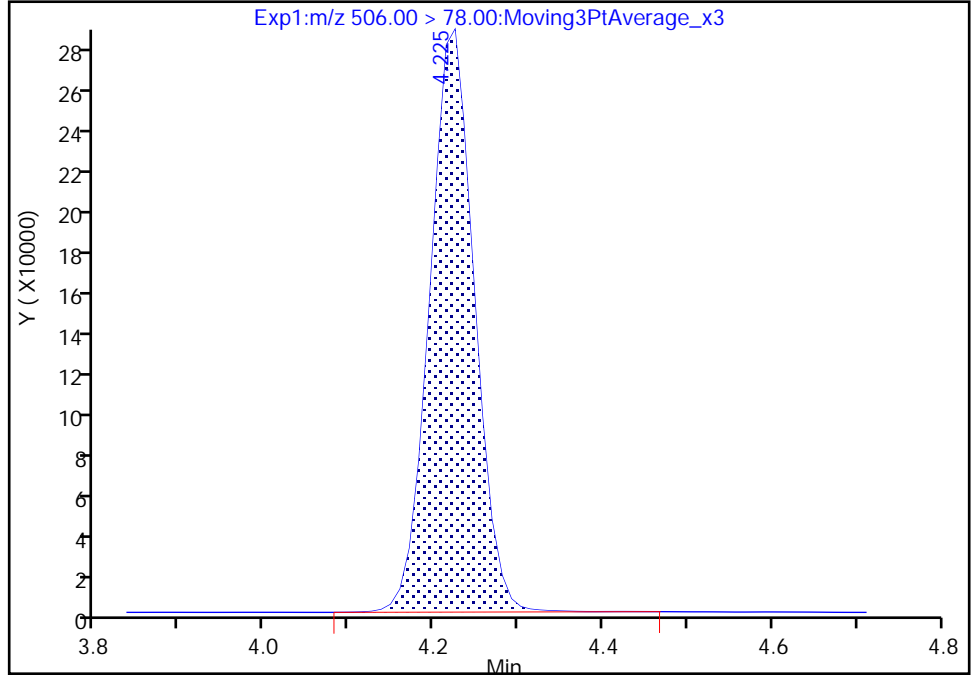
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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 Worklist Smp#: 4
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

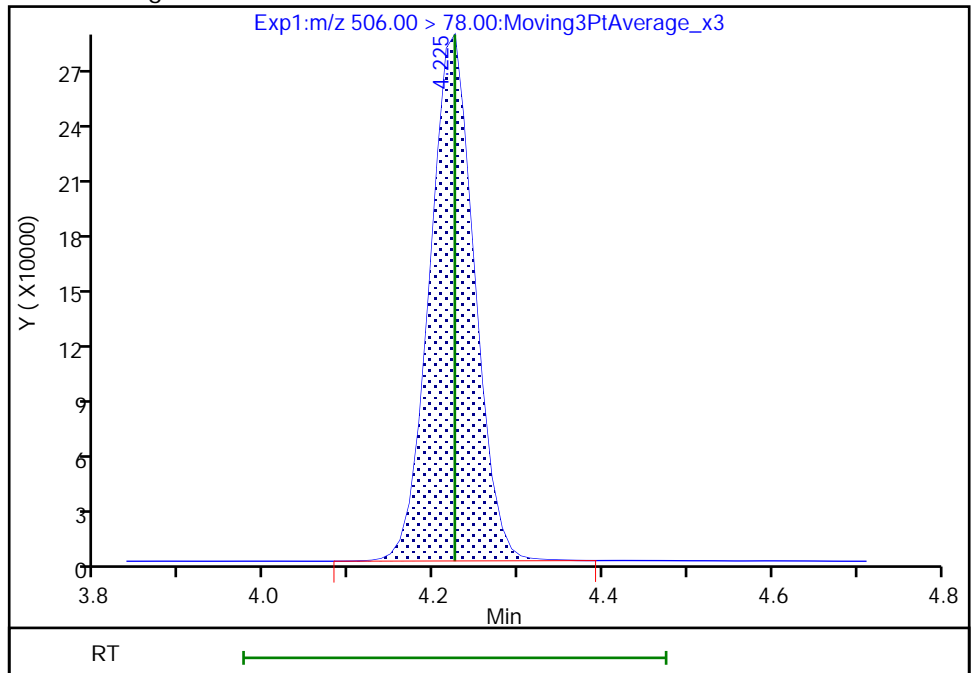
RT: 4.22
Area: 1059424
Amount: 0.930084
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 1058444
Amount: 0.930868
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:05:14
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

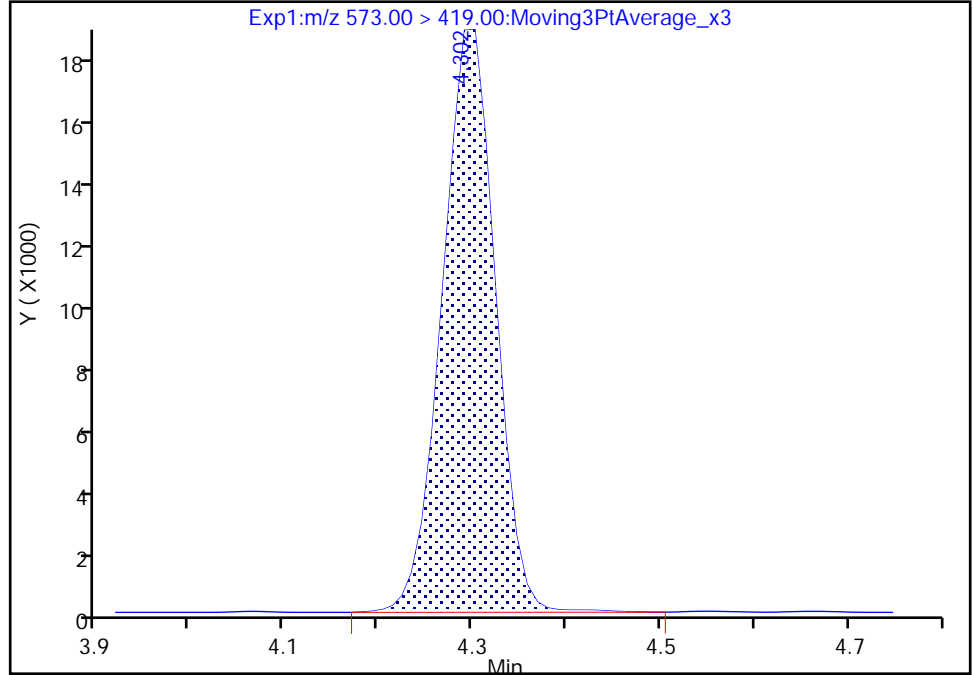
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C04.d
Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 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

D 27 d3-NMeFOSAA, CAS: STL02118
Signal: 1

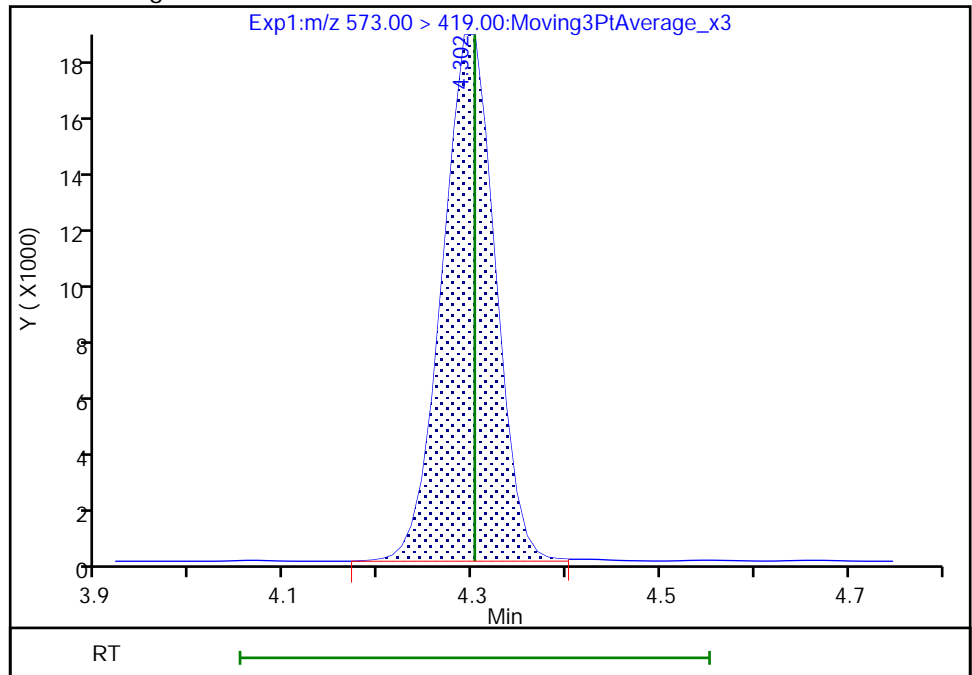
RT: 4.30
Area: 71060
Amount: 1.300976
Amount Units: ng/ml

Processing Integration Results



RT: 4.30
Area: 70875
Amount: 1.299884
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:05:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 749 of 761

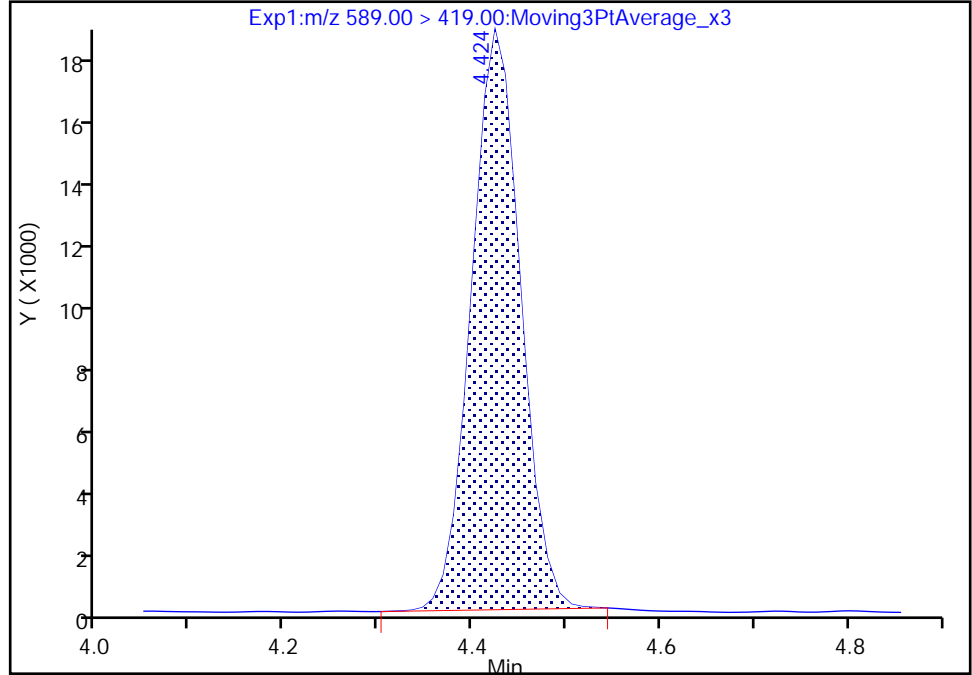
Eurofins TestAmerica, Burlington

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Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 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

D 32 d5-NEtFOSAA, CAS: STL02117
Signal: 1

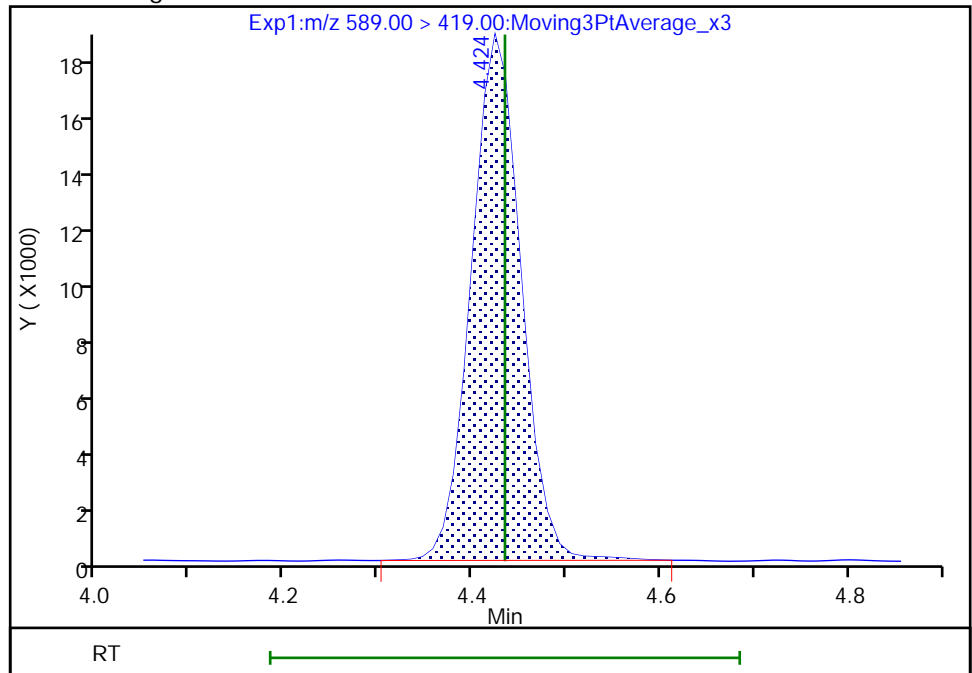
RT: 4.42
Area: 66142
Amount: 1.206781
Amount Units: ng/ml

Processing Integration Results



RT: 4.42
Area: 67103
Amount: 1.226481
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:05:31
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
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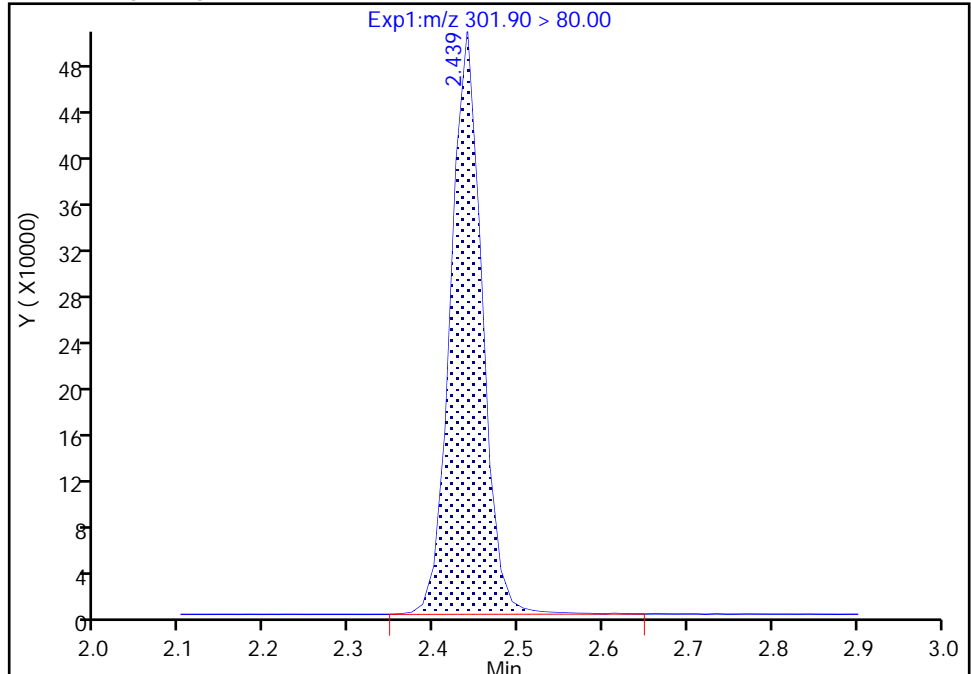
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C04.d
Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 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

D 47 13C3 PFBS, CAS: STL02337
Signal: 1

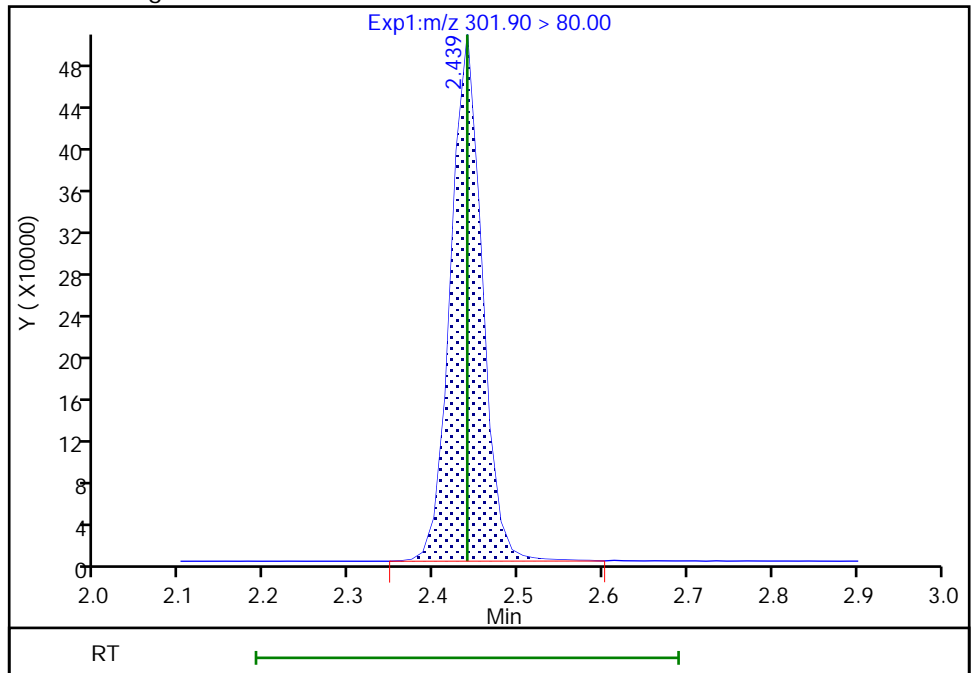
RT: 2.44
Area: 1289178
Amount: 1.134298
Amount Units: ng/ml

Processing Integration Results



RT: 2.44
Area: 1288520
Amount: 1.135725
Amount Units: ng/ml

Manual Integration Results



Reviewer: nampitakw, 24-May-2021 09:03:17
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 751 of 761

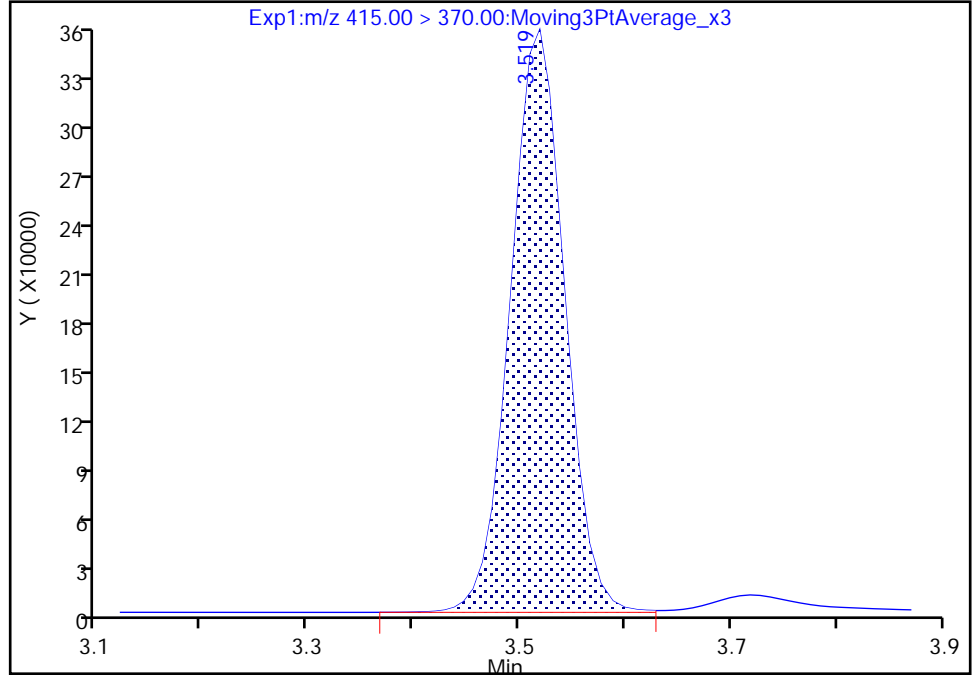
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20210521-46090.b\PA210521C04.d
Injection Date: 21-May-2021 23:01:51 Instrument ID: LC812
Lims ID: LCSD 200-167147/3-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 31 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

* 62 13C2 PFOA, CAS: STL00623
Signal: 1

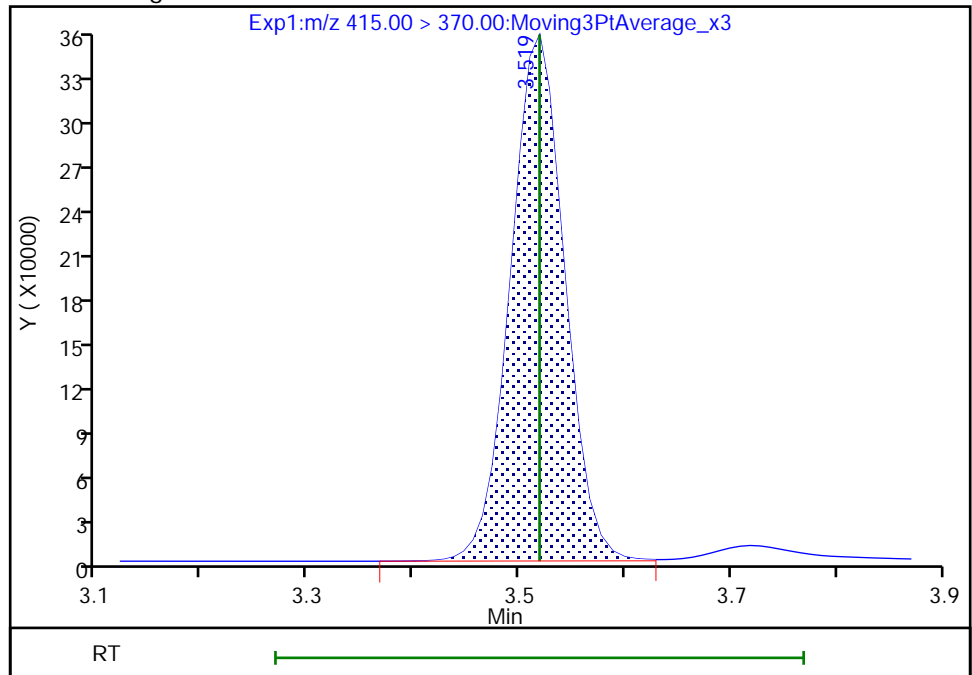
RT: 3.52
Area: 1248017
Amount: 1.250000
Amount Units: ng/ml

Processing Integration Results



RT: 3.52
Area: 1245813
Amount: 1.250000
Amount Units: ng/ml

Manual Integration Results



LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

SDG No.: _____

Instrument ID: LC812 Start Date: 05/20/2021 16:47

Analysis Batch Number: 167122 End Date: 05/20/2021 18:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/20/2021 16:47	1		C-18 4.6 (mm)
IC 200-167122/2		05/20/2021 16:55	1	PA210520ICAL02.d	C-18 4.6 (mm)
IC 200-167122/3		05/20/2021 17:03	1	PA210520ICAL03.d	C-18 4.6 (mm)
IC 200-167122/4		05/20/2021 17:12	1	PA210520ICAL04.d	C-18 4.6 (mm)
ICIS 200-167122/5		05/20/2021 17:20	1	PA210520ICAL05.d	C-18 4.6 (mm)
IC 200-167122/6		05/20/2021 17:28	1	PA210520ICAL06.d	C-18 4.6 (mm)
IC 200-167122/7		05/20/2021 17:37	1	PA210520ICAL07.d	C-18 4.6 (mm)
ICB 200-167122/8		05/20/2021 17:45	1	PA210520ICAL08.d	C-18 4.6 (mm)
ICV 200-167122/9		05/20/2021 17:53	1	PA210520ICAL09.d	C-18 4.6 (mm)
ZZZZZ		05/20/2021 18:01	1		C-18 4.6 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

SDG No.: _____

Instrument ID: LC812 Start Date: 05/21/2021 16:07

Analysis Batch Number: 167169 End Date: 05/21/2021 18:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		05/21/2021 16:07	1		C-18 4.6 (mm)
CCVL 200-167169/2		05/21/2021 16:15	1	PA210521AAA02.d	C-18 4.6 (mm)
CCVIS 200-167169/3		05/21/2021 16:24	1	PA210521AAA03.d	C-18 4.6 (mm)
ZZZZZ		05/21/2021 16:32	5		C-18 4.6 (mm)
ZZZZZ		05/21/2021 16:40	150		C-18 4.6 (mm)
ZZZZZ		05/21/2021 16:48	2		C-18 4.6 (mm)
ZZZZZ		05/21/2021 16:57	1		C-18 4.6 (mm)
ZZZZZ		05/21/2021 17:05	150		C-18 4.6 (mm)
ZZZZZ		05/21/2021 17:13	5		C-18 4.6 (mm)
ZZZZZ		05/21/2021 17:22	1		C-18 4.6 (mm)
ZZZZZ		05/21/2021 17:30	1		C-18 4.6 (mm)
ZZZZZ		05/21/2021 17:38	1		C-18 4.6 (mm)
ZZZZZ		05/21/2021 17:46	1		C-18 4.6 (mm)
CCV 200-167169/14		05/21/2021 17:55	1		C-18 4.6 (mm)
ZZZZZ		05/21/2021 18:03	1		C-18 4.6 (mm)
ZZZZZ		05/21/2021 18:11	20		C-18 4.6 (mm)
ZZZZZ		05/21/2021 18:20	20		C-18 4.6 (mm)
ZZZZZ		05/21/2021 18:28	1		C-18 4.6 (mm)
ZZZZZ		05/21/2021 18:36	1		C-18 4.6 (mm)
CCV 200-167169/20		05/21/2021 18:44	1		C-18 4.6 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-58440-1

SDG No.: _____

Instrument ID: LC812 Start Date: 05/21/2021 22:37

Analysis Batch Number: 167173 End Date: 05/22/2021 02:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-167173/1		05/21/2021 22:37	1	PA210521C01.d	C-18 4.6 (mm)
MB 200-167147/1-A		05/21/2021 22:45	1	PA210521C02.d	C-18 4.6 (mm)
LCS 200-167147/2-A		05/21/2021 22:53	1	PA210521C03.d	C-18 4.6 (mm)
LCSD 200-167147/3-A		05/21/2021 23:01	1	PA210521C04.d	C-18 4.6 (mm)
200-58440-1	MW-26S	05/21/2021 23:10	1	PA210521C05.d	C-18 4.6 (mm)
200-58440-2	MW-25S	05/21/2021 23:18	1	PA210521C06.d	C-18 4.6 (mm)
200-58440-3	MW-25S-D	05/21/2021 23:26	1	PA210521C07.d	C-18 4.6 (mm)
200-58440-4	DGC-4S	05/21/2021 23:35	1	PA210521C08.d	C-18 4.6 (mm)
200-58440-5	FIELD BLANK	05/21/2021 23:43	1	PA210521C09.d	C-18 4.6 (mm)
ZZZZZ		05/21/2021 23:51	1		C-18 4.6 (mm)
ZZZZZ		05/21/2021 23:59	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 00:08	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 00:16	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 00:24	1		C-18 4.6 (mm)
CCV 200-167173/15		05/22/2021 00:33	1	PA210521C15.d	C-18 4.6 (mm)
ZZZZZ		05/22/2021 00:41	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 00:49	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 00:57	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 01:06	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 01:14	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 01:22	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 01:31	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 01:39	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 01:47	1		C-18 4.6 (mm)
ZZZZZ		05/22/2021 01:55	1		C-18 4.6 (mm)
CCV 200-167173/26		05/22/2021 02:04	1		C-18 4.6 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 200-58440-1

SDG No.: _____

Batch Number: 167147 Batch Start Date: 05/21/21 11:52 Batch Analyst: Wisniewski, Kurtis F

Batch Method: 3535 Batch End Date: 05/21/21 16:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFCIDA21 00033	LCPFC32MTXStk 00034
MB 200-167147/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	100 uL	
LCS 200-167147/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	100 uL	25 uL
LCS 200-167147/3		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	100 uL	25 uL
200-58440-B-1	MW-26S	3535, 537 (modified)	T	328.93 g	27.16 g	301.8 mL	10 mL	100 uL	
200-58440-A-2	MW-25S	3535, 537 (modified)	T	323.50 g	28.00 g	295.5 mL	10 mL	100 uL	
200-58440-A-3	MW-25S-D	3535, 537 (modified)	T	318.63 g	27.06 g	291.6 mL	10 mL	100 uL	
200-58440-A-4	DGC-4S	3535, 537 (modified)	T	318.22 g	27.21 g	291 mL	10 mL	100 uL	
200-58440-A-5	FIELD BLANK	3535, 537 (modified)	T	314.32 g	27.60 g	286.7 mL	10 mL	100 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00034					
MB 200-167147/1		3535, 537 (modified)		100 uL					
LCS 200-167147/2		3535, 537 (modified)		100 uL					
LCS 200-167147/3		3535, 537 (modified)		100 uL					
200-58440-B-1	MW-26S	3535, 537 (modified)	T	100 uL					
200-58440-A-2	MW-25S	3535, 537 (modified)	T	100 uL					
200-58440-A-3	MW-25S-D	3535, 537 (modified)	T	100 uL					
200-58440-A-4	DGC-4S	3535, 537 (modified)	T	100 uL					
200-58440-A-5	FIELD BLANK	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.

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 200-58440-1

SDG No.: _____

Batch Number: 167147 Batch Start Date: 05/21/21 11:52 Batch Analyst: Wisniewski, Kurtis F

Batch Method: 3535 Batch End Date: 05/21/21 16:15


Batch Notes	
Balance ID	M02926
Batch Comment	IDA:G IS:A MTX:B
Manifold ID	IDA 3&4
Pipette/Syringe/Dispenser ID	QH77727
Rinse Solvent Lot	1496600
Rinse Solvent Name	30% MeOH
Solvent Lot #	1491290
Solvent Name	Methanol (0.3% NH4OH)
SPE Cartridge Lot ID	Sorbent Lot: 0409/1247/G Prod Lot: D00835
SPE Cartridge Type	Strata PFAS (WAX/GCB) 500 mg/50mg/6mg
Analyst ID - Spike Analyst	KFW
Analyst ID - Spike Witness Analyst	NDD

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Sampler: J. Liddle Lab PM: Mason, Becky C Carrier Tracking No(s): 480-160355-35282.1
 Phone: 978 319 7391 E-Mail: Becky.Mason@Eurolinset.com State of Origin: _____
 PWSID: _____
 Due Date Requested: _____
 TAT Requested (days): Standard
 Compliance Project: Yes No
 PO #: _____
 Purchase Order Requested
 WO #: _____
 Project #: 48023770
 SSO#: _____

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Performance MS/MSD (Yes or No)	PFC, DA - PFAS, Standard List (21 analytes)	Analysis Requested	Total Number of Containers	Special Instructions/Note:
MW-26S	5/10/24	1620	6	Water	X	X				
MW-25S	5/10/24	1415	6	Water	X	X				
MW-25S-D	5/10/24	1430	6	Water	X	X				
DGC-4S	5/10/24	1225	6	Water	X	X				
Field Blank	5/10/24	1036	6	Water	X	X				
										
200-58440 COC										

Preservation Codes:
 A - HCL M - Hexane
 B - NaOH N - None
 C - Zn Acetate O - AsNaO2
 D - Nitric Acid P - Na2SO4
 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 Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Jeff Liddle Date: 5/10/24 1650
 Relinquished by: Becky Mason Date: 5/11/24 1700
 Relinquished by: _____ Date: _____

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: _____

FROM: (518) 438-8140
TIM KNOLLMEYER
TESTAMERICA LAB INC
25 KRAFT AVE

SHIP DATE: 11MAY21
ACTWGT: 20.20 LB
CAD: 0886598/CAFE3409

ALBANY NY 12205
US

BILL 3rd PARTY

5603/PL/INC/05/ARE

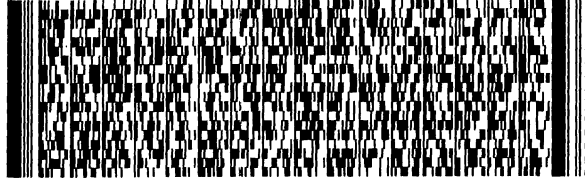
TO **SAMPLE RECEIVING**
TESTAMERICA - BURLINGTON
30 COMMUNITY DRIVE, SUITE 11

BURLINGTON VT 05403

(US)

(802) 660-1990

REF: TETRA TECH PFAS



FedEx
Ground



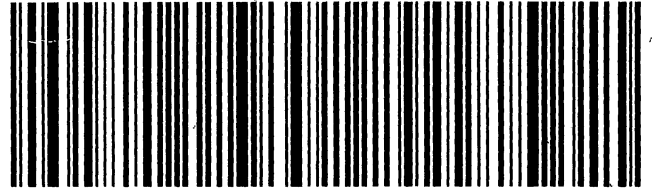
J201120121801uv

TRK# **5013 1604 8230**

05403

Part # 166148-434 RIT EXP 11/21

9622 0417 3 (000 000 0000) 0 00 5013 1604 8230



Login Sample Receipt Checklist

Client: Tetra Tech GEO

Job Number: 200-58440-1

Login Number: 58440
List Number: 1
Creator: Cunningham, Caroline R

List Source: Eurofins TestAmerica, Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	NA: Lab does not accept radioactive samples
The cooler's custody seal, if present, is intact.	True	1595062
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	3.3°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the 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.	N/A	
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.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	